HL7 CDA® R2 Implementation Guide: Reportability Response, Release 1 - US Realm

May 2017

Volume 2 – Templates and Supporting Material

HL7 Standard for Trial Use (STU) Ballot

Sponsored by:
Public Health and Emergency Response Group
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International Classification of Diseases (ICD) codes	World Health Organization (WHO)
NUCC Health Care Provider Taxonomy code set	American Medical Association. Please see 222.nucc.org. AMA licensing contact: 312-464-5022 (AMA IP services)

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1 DOCUMENT-LEVEL TEMPLATES

In Sections 1.1 – 1.1.1.17 below, the descriptions of the US Realm Header templates are the standard ones from the US Realm Header. While this Reportability Response CDA document is not originating in clinical care, the use of the term "clinical document" in the templates still refers to the Reportability Response CDA document.   Some of the information that will be used to populate elements of the US Realm Header (such as administrative and demographic data about the patient) will come from the corresponding eICR CDA document that the Reportability Response CDA document is a response for.

1.1 US Realm Header (V3)

```
[ClinicalDocument: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2015-
08-01 (open)]
```

Published as part of Consolidated CDA Templates for Clinical Notes (US Realm) DSTU R2.1

Table 1: US Realm Header (V3) Contexts

Contained By:	Contains:
	US Realm Address (AD.US.FIELDED) US Realm Date and Time (DTM.US.FIELDED) US Realm Person Name (PN.US.FIELDED)

This template defines constraints that represent common administrative and demographic concepts for US Realm CDA documents. Further specification, such as ClinicalDocument/code, are provided in document templates that conform to this template.

Table 2: US Realm Header (V3) Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
ClinicalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2015-08-01)					
realmCode	1..1	SHALL		1198-16791	US
typeId	1..1	SHALL		1198-5361	
@root	1..1	SHALL		1198-5250	2.16.840.1.113883.1.3
@extension	1..1	SHALL		1198-5251	POCD_HD000040
templateId	1..1	SHALL		1198-5252	
@root	1..1	SHALL		1198-10036	2.16.840.1.113883.10.20.22.1.1
@extension	1..1	SHALL		1198-32503	2015-08-01
id	1..1	SHALL		1198-5363	
code	1..1	SHALL		1198-5253	
title	1..1	SHALL		1198-5254	
effectiveTime	1..1	SHALL		1198-5256	US Realm Date and Time (DTM.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4
confidentialityCode	1..1	SHALL		1198-5259	urn:oid:2.16.840.1.113883.1.11.16926 (HL7 BasicConfidentialityKind)
languageCode	1..1	SHALL		1198-5372	urn:oid:2.16.840.1.113883.1.11.11526 (Language)
setId	0..1	MAY		1198-5261	
versionNumber	0..1	MAY		1198-5264	
recordTarget	1..*	SHALL		1198-5266	
patientRole	1..1	SHALL		1198-5267	
id	1..*	SHALL		1198-5268	
addr	1..*	SHALL		1198-5271	US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2

telecom	1..*	SHALL		[1198-5280](#)	
@use	0..1	SHOULD		[1198-5375](#)	urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header))
patient	1..1	SHALL		[1198-5283](#)	
name	1..*	SHALL		[1198-5284](#)	[US Realm Person Name (PN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1](#)
administrativeGenderCode	1..1	SHALL		[1198-6394](#)	urn:oid:2.16.840.1.11.1 (Administrative Gender (HL7 V3))
birthTime	1..1	SHALL		[1198-5298](#)	
maritalStatusCode	0..1	SHOULD		[1198-5303](#)	urn:oid:2.16.840.1.113883.1.11.12212 (Marital Status)
religiousAffiliationCode	0..1	MAY		[1198-5317](#)	urn:oid:2.16.840.1.113883.1.11.19185 (Religious Affiliation)
raceCode	1..1	SHALL		[1198-5322](#)	urn:oid:2.16.840.1.113883.3.2074.1.1.3 (Race Category Excluding Nulls)
sdtc:raceCode	0..*	MAY		[1198-7263](#)	urn:oid:2.16.840.1.113883.1.11.14914 (Race)
ethnicGroupCode	1..1	SHALL		[1198-5323](#)	urn:oid:2.16.840.1.114222.4.11.837 (Ethnicity)
sdtc:ethnicGroupCode	0..*	MAY		[1198-32901](#)	urn:oid:2.16.840.1.114222.4.11.877 (Detailed Ethnicity)
guardian	0..*	MAY		[1198-5325](#)	
code	0..1	SHOULD		[1198-5326](#)	urn:oid:2.16.840.1.113883.11.20.12.1 (Personal And Legal Relationship Role Type)
addr	0..*	SHOULD		[1198-5359](#)	[US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2](#)
telecom	0..*	SHOULD		[1198-5382](#)	
@use	0..1	SHOULD		[1198-7993](#)	urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header))
guardianPerson	1..1	SHALL		[1198-5385](#)	
name	1..*	SHALL		[1198-5386](#)	[US Realm Person Name (PN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1](#)

birthplace	0..1	MAY		1198-5395	
place	1..1	SHALL		1198-5396	
addr	1..1	SHALL		1198-5397	
country	0..1	SHOULD		1198-5404	urn:oid:2.16.840.1.113883.3.88.12.80.63 (Country)
postalCode	0..1	MAY		1198-5403	urn:oid:2.16.840.1.113883.3.88.12.80.2 (PostalCode)
languageCommunication	0..*	SHOULD		1198-5406	
languageCode	1..1	SHALL		1198-5407	urn:oid:2.16.840.1.113883.1.11.11526 (Language)
modeCode	0..1	MAY		1198-5409	urn:oid:2.16.840.1.113883.1.11.12249 (LanguageAbilityMode)
proficiencyLevelCode	0..1	SHOULD		1198-9965	urn:oid:2.16.840.1.113883.1.11.12199 (LanguageAbilityProficiency)
preferenceInd	0..1	SHOULD		1198-5414	
providerOrganization	0..1	MAY		1198-5416	
id	1..*	SHALL		1198-5417	
@root	0..1	SHOULD		1198-16820	2.16.840.1.113883.4.6
name	1..*	SHALL		1198-5419	
telecom	1..*	SHALL		1198-5420	
@use	0..1	SHOULD		1198-7994	urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header))
addr	1..*	SHALL		1198-5422	US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2
author	1..*	SHALL		1198-5444	
time	1..1	SHALL		1198-5445	US Realm Date and Time (DTM.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4
assignedAuthor	1..1	SHALL		1198-5448	
id	1..*	SHALL		1198-5449	

id	0..1	SHOULD		[1198-32882](#)	
@nullFlavor	0..1	MAY		[1198-32883](#)	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = UNK
@root	1..1	SHALL		[1198-32884](#)	2.16.840.1.113883.4.6
@extension	0..1	SHOULD		[1198-32885](#)	
code	0..1	SHOULD		[1198-16787](#)	
@code	1..1	SHALL		[1198-16788](#)	urn:oid:2.16.840.1.114222.4.11.1066 (Healthcare Provider Taxonomy (HIPAA))
addr	1..*	SHALL		[1198-5452](#)	US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2
telecom	1..*	SHALL		[1198-5428](#)	
@use	0..1	SHOULD		[1198-7995](#)	urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header))
assignedPerson	0..1	SHOULD		[1198-5430](#)	
name	1..*	SHALL		[1198-16789](#)	US Realm Person Name (PN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1
assignedAuthoringDevice	0..1	SHOULD		[1198-16783](#)	
manufacturerModelName	1..1	SHALL		[1198-16784](#)	
softwareName	1..1	SHALL		[1198-16785](#)	
dataEnterer	0..1	MAY		[1198-5441](#)	
assignedEntity	1..1	SHALL		[1198-5442](#)	
id	1..*	SHALL		[1198-5443](#)	
@root	0..1	SHOULD		[1198-16821](#)	2.16.840.1.113883.4.6
code	0..1	MAY		[1198-32173](#)	urn:oid:2.16.840.1.114222.4.11.1066 (Healthcare Provider Taxonomy (HIPAA))
addr	1..*	SHALL		[1198-5460](#)	US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2

telecom	1..*	SHALL		[1198-5466](#)	
@use	0..1	SHOULD		[1198-7996](#)	urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header))
assignedPerson	1..1	SHALL		[1198-5469](#)	
name	1..*	SHALL		[1198-5470](#)	[US Realm Person Name (PN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1](#)
informant	0..*	MAY		[1198-8001](#)	
assignedEntity	1..1	SHALL		[1198-8002](#)	
id	1..*	SHALL		[1198-9945](#)	
code	0..1	MAY		[1198-32174](#)	urn:oid:2.16.840.1.114222.4.11.1066 (Healthcare Provider Taxonomy (HIPAA))
addr	1..*	SHALL		[1198-8220](#)	[US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2](#)
assignedPerson	1..1	SHALL		[1198-8221](#)	
name	1..*	SHALL		[1198-8222](#)	[US Realm Person Name (PN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1](#)
informant	0..*	MAY		[1198-31355](#)	
relatedEntity	1..1	SHALL		[1198-31356](#)	
custodian	1..1	SHALL		[1198-5519](#)	
assignedCustodian	1..1	SHALL		[1198-5520](#)	
representedCustodianOrganization	1..1	SHALL		[1198-5521](#)	
id	1..*	SHALL		[1198-5522](#)	
@root	0..1	SHOULD		[1198-16822](#)	2.16.840.1.113883.4.6
name	1..1	SHALL		[1198-5524](#)	
telecom	1..1	SHALL		[1198-5525](#)	

@use	0..1	SHOULD		[1198-7998](#)	urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header))
addr	1..1	SHALL		[1198-5559](#)	US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2
informationRecipient	0..*	MAY		[1198-5565](#)	
intendedRecipient	1..1	SHALL		[1198-5566](#)	
id	0..*	MAY		[1198-32399](#)	
informationRecipient	0..1	MAY		[1198-5567](#)	
name	1..*	SHALL		[1198-5568](#)	US Realm Person Name (PN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1
receivedOrganization	0..1	MAY		[1198-5577](#)	
name	1..1	SHALL		[1198-5578](#)	
legalAuthenticator	0..1	SHOULD		[1198-5579](#)	
time	1..1	SHALL		[1198-5580](#)	US Realm Date and Time (DTM.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4
signatureCode	1..1	SHALL		[1198-5583](#)	
@code	1..1	SHALL		[1198-5584](#)	urn:oid:2.16.840.1.113883.5.89 (HL7ParticipationSignature) = S
sdtc:signatureText	0..1	MAY		[1198-30810](#)	
assignedEntity	1..1	SHALL		[1198-5585](#)	
id	1..*	SHALL		[1198-5586](#)	
@root	0..1	MAY		[1198-16823](#)	2.16.840.1.113883.4.6
code	0..1	MAY		[1198-17000](#)	urn:oid:2.16.840.1.114222.4.11.1066 (Healthcare Provider Taxonomy (HIPAA))
addr	1..*	SHALL		[1198-5589](#)	US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2
telecom	1..*	SHALL		[1198-](#)	

				5595	
@use	0..1	SHOULD		1198-7999	urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header))
assignedPerson	1..1	SHALL		1198-5597	
name	1..*	SHALL		1198-5598	US Realm Person Name (PN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1
authenticator	0..*	MAY		1198-5607	
time	1..1	SHALL		1198-5608	US Realm Date and Time (DTM.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4
signatureCode	1..1	SHALL		1198-5610	
@code	1..1	SHALL		1198-5611	urn:oid:2.16.840.1.113883.5.89 (HL7ParticipationSignature) = S
sdtc:signatureText	0..1	MAY		1198-30811	
assignedEntity	1..1	SHALL		1198-5612	
id	1..*	SHALL		1198-5613	
@root	0..1	SHOULD		1198-16824	2.16.840.1.113883.4.6
code	0..1	MAY		1198-16825	
@code	0..1	MAY		1198-16826	urn:oid:2.16.840.1.114222.4.11.1066 (Healthcare Provider Taxonomy (HIPAA))
addr	1..*	SHALL		1198-5616	US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2
telecom	1..*	SHALL		1198-5622	
@use	0..1	SHOULD		1198-8000	urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header))
assignedPerson	1..1	SHALL		1198-5624	
name	1..*	SHALL		1198-5625	US Realm Person Name (PN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1
participant	0..*	MAY		1198-	

				[10003](#)	
time	0..1	MAY		[1198-10004](#)	
inFulfillmentOf	0..*	MAY		[1198-9952](#)	
order	1..1	SHALL		[1198-9953](#)	
id	1..*	SHALL		[1198-9954](#)	
documentationOf	0..*	MAY		[1198-14835](#)	
serviceEvent	1..1	SHALL		[1198-14836](#)	
effectiveTime	1..1	SHALL		[1198-14837](#)	
low	1..1	SHALL		[1198-14838](#)	
performer	0..*	SHOULD		[1198-14839](#)	
@typeCode	1..1	SHALL		[1198-14840](#)	urn:oid:2.16.840.1.113883.1.11.19601 (x_ServiceEventPerformer)
functionCode	0..1	MAY		[1198-16818](#)	
@code	0..1	SHOULD		[1198-32889](#)	urn:oid:2.16.840.1.113883.1.11.10267 (ParticipationFunction)
assignedEntity	1..1	SHALL		[1198-14841](#)	
id	1..*	SHALL		[1198-14846](#)	
@root	0..1	SHOULD		[1198-14847](#)	2.16.840.1.113883.4.6
code	0..1	SHOULD		[1198-14842](#)	urn:oid:2.16.840.1.114222.4.11.1066 (Healthcare Provider Taxonomy (HIPAA))
authorization	0..*	MAY		[1198-16792](#)	
consent	1..1	SHALL		[1198-16793](#)	
id	0..*	MAY		[1198-16794](#)	
code	0..1	MAY		[1198-16795](#)	
statusCode	1..1	SHALL		[1198-16797](#)	
@code	1..1	SHALL		[1198-16798](#)	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = completed
componentOf	0..1	MAY		[1198-](#)	

				9955	
encompassingEncounter	1..1	SHALL		1198-9956	
id	1..*	SHALL		1198-9959	
effectiveTime	1..1	SHALL		1198-9958	

1.1.1 Properties

1.1.1.1 realmCode

1. **SHALL** contain exactly one [1..1] **realmCode**="US" (CONF:1198-16791).
2. **SHALL** contain exactly one [1..1] **typeId** (CONF:1198-5361).
   a. This typeId **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.1.3" (CONF:1198-5250).
   b. This typeId **SHALL** contain exactly one [1..1] **@extension**="POCD_HD000040" (CONF:1198-5251).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1198-5252) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.1.1" (CONF:1198-10036).
   b. **SHALL** contain exactly one [1..1] **@extension**="2015-08-01" (CONF:1198-32503).
4. **SHALL** contain exactly one [1..1] **id** (CONF:1198-5363).
   a. This id **SHALL** be a globally unique identifier for the document (CONF:1198-9991).
5. **SHALL** contain exactly one [1..1] **code** (CONF:1198-5253).
   a. This code **SHALL** specify the particular kind of document (e.g., History and Physical, Discharge Summary, Progress Note) (CONF:1198-9992).
6. **SHALL** contain exactly one [1..1] **title** (CONF:1198-5254).
   Note: The title can either be a locally defined name or the displayName corresponding to clinicalDocument/code
7. **SHALL** contain exactly one [1..1] **US Realm Date and Time (DTM.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4) (CONF:1198-5256).
8. **SHALL** contain exactly one [1..1] **confidentialityCode**, which **SHOULD** be selected from ValueSet **HL7 BasicConfidentialityKind** urn:oid:2.16.840.1.113883.1.11.16926 **STATIC** (CONF:1198-5259).
9. **SHALL** contain exactly one [1..1] **languageCode**, which **SHALL** be selected from ValueSet **Language** urn:oid:2.16.840.1.113883.1.11.11526 **DYNAMIC** (CONF:1198-5372).
10. **MAY** contain zero or one [0..1] **setId** (CONF:1198-5261).
    a. If setId is present versionNumber **SHALL** be present (CONF:1198-6380).
11. **MAY** contain zero or one [0..1] **versionNumber** (CONF:1198-5264).
    a. If versionNumber is present setId **SHALL** be present (CONF:1198-6387).

1.1.1.2 recordTarget

The recordTarget records the administrative and demographic data of the patient whose health information is described by the clinical document; each recordTarget must contain at least one patientRole element

12. **SHALL** contain at least one [1..*] **recordTarget** (CONF:1198-5266).

    a. Such recordTargets **SHALL** contain exactly one [1..1] **patientRole** (CONF:1198-5267).

        i. This patientRole **SHALL** contain at least one [1..*] **id** (CONF:1198-5268).

        ii. This patientRole **SHALL** contain at least one [1..*] **US Realm Address (AD.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1198-5271).

        iii. This patientRole **SHALL** contain at least one [1..*] **telecom** (CONF:1198-5280).

            1. Such telecoms **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet **Telecom Use (US Realm Header)** urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:1198-5375).

        iv. This patientRole **SHALL** contain exactly one [1..1] **patient** (CONF:1198-5283).

            1. This patient **SHALL** contain at least one [1..*] **US Realm Person Name (PN.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1198-5284).

            2. This patient **SHALL** contain exactly one [1..1] **administrativeGenderCode**, which **SHALL** be selected from ValueSet **Administrative Gender (HL7 V3)** urn:oid:2.16.840.1.113883.1.11.1 **DYNAMIC** (CONF:1198-6394).

            3. This patient **SHALL** contain exactly one [1..1] **birthTime** (CONF:1198-5298).

                a. **SHALL** be precise to year (CONF:1198-5299).

                b. **SHOULD** be precise to day (CONF:1198-5300).

For cases where information about newborn's time of birth needs to be captured.

                c. **MAY** be precise to the minute (CONF:1198-32418).

            4. This patient **SHOULD** contain zero or one [0..1] **maritalStatusCode**, which **SHALL** be selected from ValueSet **Marital Status** urn:oid:2.16.840.1.113883.1.11.12212 **DYNAMIC** (CONF:1198-5303).

            5. This patient **MAY** contain zero or one [0..1] **religiousAffiliationCode**, which **SHALL** be selected from ValueSet **Religious Affiliation** urn:oid:2.16.840.1.113883.1.11.19185 **DYNAMIC** (CONF:1198-5317).

            6. This patient **SHALL** contain exactly one [1..1] **raceCode**, which **SHALL** be selected from ValueSet **Race Category Excluding Nulls**

urn:oid:2.16.840.1.113883.3.2074.1.1.3 **DYNAMIC** (CONF:1198-5322).

7. This patient **MAY** contain zero or more [0..*] **sdtc:raceCode**, which **SHALL** be selected from ValueSet **Race** urn:oid:2.16.840.1.113883.1.11.14914 **DYNAMIC** (CONF:1198-7263).
   Note: The sdtc:raceCode is only used to record additional values when the patient has indicated multiple races or additional race detail beyond the five categories required for Meaningful Use Stage 2. The prefix sdtc: SHALL be bound to the namespace "urn:hl7-org:sdtc". The use of the namespace provides a necessary extension to CDA R2 for the use of the additional raceCode elements.
   a. If sdtc:raceCode is present, then the patient **SHALL** contain [1..1] raceCode (CONF:1198-31347).

8. This patient **SHALL** contain exactly one [1..1] **ethnicGroupCode**, which **SHALL** be selected from ValueSet **Ethnicity** urn:oid:2.16.840.1.114222.4.11.837 **DYNAMIC** (CONF:1198-5323).

9. This patient **MAY** contain zero or more [0..*] **sdtc:ethnicGroupCode**, which **SHALL** be selected from ValueSet **Detailed Ethnicity** urn:oid:2.16.840.1.114222.4.11.877 **DYNAMIC** (CONF:1198-32901).

10. This patient **MAY** contain zero or more [0..*] **guardian** (CONF:1198-5325).
    a. The guardian, if present, **SHOULD** contain zero or one [0..1] **code**, which **SHALL** be selected from ValueSet **Personal And Legal Relationship Role Type** urn:oid:2.16.840.1.113883.11.20.12.1 **DYNAMIC** (CONF:1198-5326).
    b. The guardian, if present, **SHOULD** contain zero or more [0..*] **US Realm Address (AD.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1198-5359).
    c. The guardian, if present, **SHOULD** contain zero or more [0..*] **telecom** (CONF:1198-5382).
       i. The telecom, if present, **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet **Telecom Use (US Realm Header)** urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:1198-7993).
    d. The guardian, if present, **SHALL** contain exactly one [1..1] **guardianPerson** (CONF:1198-5385).
       i. This guardianPerson **SHALL** contain at least one [1..*] **US Realm Person Name (PN.US.FIELDED)** (identifier:

urn:oid:2.16.840.1.113883.10.20.22.5.1.1)
(CONF:1198-5386).

11. This patient **MAY** contain zero or one [0..1] **birthplace** (CONF:1198-5395).

   a. The birthplace, if present, **SHALL** contain exactly one [1..1] **place** (CONF:1198-5396).

      i. This place **SHALL** contain exactly one [1..1] **addr** (CONF:1198-5397).

      1. This addr **SHOULD** contain zero or one [0..1] **country**, which **SHALL** be selected from ValueSet **Country** urn:oid:2.16.840.1.113883.3.88.12.80.63 **DYNAMIC** (CONF:1198-5404).

      2. This addr **MAY** contain zero or one [0..1] **postalCode**, which **SHALL** be selected from ValueSet **PostalCode** urn:oid:2.16.840.1.113883.3.88.12.80.2 **DYNAMIC** (CONF:1198-5403).

      3. If country is US, this addr **SHALL** contain exactly one [1..1] state, which **SHALL** be selected from ValueSet StateValueSet 2.16.840.1.113883.3.88.12.80.1 **DYNAMIC** (CONF:1198-5402).
      Note: A nullFlavor of ' UNK' may be used if the state is unknown.

12. This patient **SHOULD** contain zero or more [0..*] **languageCommunication** (CONF:1198-5406).

   a. The languageCommunication, if present, **SHALL** contain exactly one [1..1] **languageCode**, which **SHALL** be selected from ValueSet **Language** urn:oid:2.16.840.1.113883.1.11.11526 **DYNAMIC** (CONF:1198-5407).

   b. The languageCommunication, if present, **MAY** contain zero or one [0..1] **modeCode**, which **SHALL** be selected from ValueSet **LanguageAbilityMode** urn:oid:2.16.840.1.113883.1.11.12249 **DYNAMIC** (CONF:1198-5409).

   c. The languageCommunication, if present, **SHOULD** contain zero or one [0..1] **proficiencyLevelCode**, which **SHALL** be selected from ValueSet **LanguageAbilityProficiency** urn:oid:2.16.840.1.113883.1.11.12199 **DYNAMIC** (CONF:1198-9965).

   d. The languageCommunication, if present, **SHOULD** contain zero or one [0..1] **preferenceInd** (CONF:1198-5414).

v. This patientRole **MAY** contain zero or one [0..1] **providerOrganization** (CONF:1198-5416).

   1. The providerOrganization, if present, **SHALL** contain at least one [1..*] **id** (CONF:1198-5417).

a. Such ids **SHOULD** contain zero or one [0..1] **@root**="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1198-16820).

2. The providerOrganization, if present, **SHALL** contain at least one [1..*] **name** (CONF:1198-5419).

3. The providerOrganization, if present, **SHALL** contain at least one [1..*] **telecom** (CONF:1198-5420).

a. Such telecoms **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet **Telecom Use (US Realm Header)** urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:1198-7994).

4. The providerOrganization, if present, **SHALL** contain at least one [1..*] **US Realm Address (AD.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1198-5422).

1.1.1.3 author

The author element represents the creator of the clinical document. The author may be a device or a person.

13. **SHALL** contain at least one [1..*] **author** (CONF:1198-5444).

a. Such authors **SHALL** contain exactly one [1..1] **US Realm Date and Time (DTM.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4) (CONF:1198-5445).

b. Such authors **SHALL** contain exactly one [1..1] **assignedAuthor** (CONF:1198-5448).

i. This assignedAuthor **SHALL** contain at least one [1..*] **id** (CONF:1198-5449).

If this assignedAuthor is an assignedPerson

ii. This assignedAuthor **SHOULD** contain zero or one [0..1] **id** (CONF:1198-32882) such that it

If id with @root="2.16.840.1.113883.4.6" National Provider Identifier is unknown then

1. **MAY** contain zero or one [0..1] **@nullFlavor**="UNK" Unknown (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008) (CONF:1198-32883).

2. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1198-32884).

3. **SHOULD** contain zero or one [0..1] **@extension** (CONF:1198-32885).

Only if this assignedAuthor is an assignedPerson should the assignedAuthor contain a code.

iii. This assignedAuthor **SHOULD** contain zero or one [0..1] **code** (CONF:1198-16787).

1. The code, if present, **SHALL** contain exactly one [1..1] **@code**, which **SHOULD** be selected from ValueSet **Healthcare Provider Taxonomy (HIPAA)** urn:oid:2.16.840.1.114222.4.11.1066 **DYNAMIC** (CONF:1198-16788).

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iv. This assignedAuthor **SHALL** contain at least one [1..*] **US Realm Address (AD.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1198-5452).

v. This assignedAuthor **SHALL** contain at least one [1..*] **telecom** (CONF:1198-5428).

1. Such telecoms **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet **Telecom Use (US Realm Header)** urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:1198-7995).

vi. This assignedAuthor **SHOULD** contain zero or one [0..1] **assignedPerson** (CONF:1198-5430).

1. The assignedPerson, if present, **SHALL** contain at least one [1..*] **US Realm Person Name (PN.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1198-16789).

vii. This assignedAuthor **SHOULD** contain zero or one [0..1] **assignedAuthoringDevice** (CONF:1198-16783).

1. The assignedAuthoringDevice, if present, **SHALL** contain exactly one [1..1] **manufacturerModelName** (CONF:1198-16784).

2. The assignedAuthoringDevice, if present, **SHALL** contain exactly one [1..1] **softwareName** (CONF:1198-16785).

viii. There **SHALL** be exactly one assignedAuthor/assignedPerson or exactly one assignedAuthor/assignedAuthoringDevice (CONF:1198-16790).

1.1.1.4 dataEnterer

The dataEnterer element represents the person who transferred the content, written or dictated, into the clinical document. To clarify, an author provides the content found within the header or body of a document, subject to their own interpretation; a dataEnterer adds an author's information to the electronic system.

14. **MAY** contain zero or one [0..1] **dataEnterer** (CONF:1198-5441).

a. The dataEnterer, if present, **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:1198-5442).

i. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:1198-5443).

1. Such ids **SHOULD** contain zero or one [0..1] **@root**="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1198-16821).

ii. This assignedEntity **MAY** contain zero or one [0..1] **code**, which **SHOULD** be selected from ValueSet **Healthcare Provider Taxonomy (HIPAA)** urn:oid:2.16.840.1.114222.4.11.1066 **DYNAMIC** (CONF:1198-32173).

iii. This assignedEntity **SHALL** contain at least one [1..*] **US Realm Address (AD.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1198-5460).

iv. This assignedEntity **SHALL** contain at least one [1..*] **telecom** (CONF:1198-5466).

1. Such telecoms **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet **Telecom Use (US Realm Header)** urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:1198-7996).

v. This assignedEntity **SHALL** contain exactly one [1..1] **assignedPerson** (CONF:1198-5469).

1. This assignedPerson **SHALL** contain at least one [1..*] **US Realm Person Name (PN.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1198-5470).

1.1.1.5 informant

The informant element describes an information source for any content within the clinical document. This informant is constrained for use when the source of information is an assigned health care provider for the patient.

15. **MAY** contain zero or more [0..*] **informant** (CONF:1198-8001) such that it

a. **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:1198-8002).

i. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:1198-9945).

1. If assignedEntity/id is a provider then this id, **SHOULD** include zero or one [0..1] id where id/@root ="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1198-9946).

ii. This assignedEntity **MAY** contain zero or one [0..1] **code**, which **SHOULD** be selected from ValueSet **Healthcare Provider Taxonomy (HIPAA)** urn:oid:2.16.840.1.114222.4.11.1066 **DYNAMIC** (CONF:1198-32174).

iii. This assignedEntity **SHALL** contain at least one [1..*] **US Realm Address (AD.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1198-8220).

iv. This assignedEntity **SHALL** contain exactly one [1..1] **assignedPerson** (CONF:1198-8221).

1. This assignedPerson **SHALL** contain at least one [1..*] **US Realm Person Name (PN.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1198-8222).

1.1.1.6 informant

The informant element describes an information source (who is not a provider) for any content within the clinical document. This informant would be used when the source of information has a personal relationship with the patient or is the patient.

16. **MAY** contain zero or more [0..*] **informant** (CONF:1198-31355) such that it

a. **SHALL** contain exactly one [1..1] **relatedEntity** (CONF:1198-31356).

1.1.1.7 custodian

The custodian element represents the organization that is in charge of maintaining and is entrusted with the care of the document.

There is only one custodian per CDA document. Allowing that a CDA document may not represent the original form of the authenticated document, the custodian represents the steward of the original source document. The custodian may be the document originator, a health information exchange, or other responsible party.

17. **SHALL** contain exactly one [1..1] **custodian** (CONF:1198-5519).

    a. This custodian **SHALL** contain exactly one [1..1] **assignedCustodian** (CONF:1198-5520).

        i. This assignedCustodian **SHALL** contain exactly one [1..1] **representedCustodianOrganization** (CONF:1198-5521).

            1. This representedCustodianOrganization **SHALL** contain at least one [1..*] **id** (CONF:1198-5522).

                a. Such ids **SHOULD** contain zero or one [0..1] **@root**="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1198-16822).

            2. This representedCustodianOrganization **SHALL** contain exactly one [1..1] **name** (CONF:1198-5524).

            3. This representedCustodianOrganization **SHALL** contain exactly one [1..1] **telecom** (CONF:1198-5525).

                a. This telecom **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet **Telecom Use (US Realm Header)** urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:1198-7998).

            4. This representedCustodianOrganization **SHALL** contain exactly one [1..1] **US Realm Address (AD.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1198-5559).

1.1.1.8 informationRecipient

The informationRecipient element records the intended recipient of the information at the time the document was created. In cases where the intended recipient of the document is the patient's health chart, set the receivedOrganization to the scoping organization for that chart.

18. **MAY** contain zero or more [0..*] **informationRecipient** (CONF:1198-5565).

    a. The informationRecipient, if present, **SHALL** contain exactly one [1..1] **intendedRecipient** (CONF:1198-5566).

        i. This intendedRecipient **MAY** contain zero or more [0..*] **id** (CONF:1198-32399).

        ii. This intendedRecipient **MAY** contain zero or one [0..1] **informationRecipient** (CONF:1198-5567).

            1. The informationRecipient, if present, **SHALL** contain at least one [1..*] **US Realm Person Name (PN.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1198-5568).

iii. This intendedRecipient **MAY** contain zero or one [0..1] **receivedOrganization** (CONF:1198-5577).

1. The receivedOrganization, if present, **SHALL** contain exactly one [1..1] **name** (CONF:1198-5578).

1.1.1.9 legalAuthenticator

The legalAuthenticator identifies the single person legally responsible for the document and must be present if the document has been legally authenticated. A clinical document that does not contain this element has not been legally authenticated.

The act of legal authentication requires a certain privilege be granted to the legal authenticator depending upon local policy. Based on local practice, clinical documents may be released before legal authentication.

All clinical documents have the potential for legal authentication, given the appropriate credentials.

Local policies MAY choose to delegate the function of legal authentication to a device or system that generates the clinical document. In these cases, the legal authenticator is a person accepting responsibility for the document, not the generating device or system.

Note that the legal authenticator, if present, must be a person.

19. **SHOULD** contain zero or one [0..1] **legalAuthenticator** (CONF:1198-5579).

a. The legalAuthenticator, if present, **SHALL** contain exactly one [1..1] **US Realm Date and Time (DTM.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4) (CONF:1198-5580).

b. The legalAuthenticator, if present, **SHALL** contain exactly one [1..1] **signatureCode** (CONF:1198-5583).

i. This signatureCode **SHALL** contain exactly one [1..1] **@code**="S" (CodeSystem: HL7ParticipationSignature urn:oid:2.16.840.1.113883.5.89 **STATIC**) (CONF:1198-5584).

1.1.1.10 sdtc:signatureText

The sdtc:signatureText extension provides a location in CDA for a textual or multimedia depiction of the signature by which the participant endorses and accepts responsibility for his or her participation in the Act as specified in the Participation.typeCode. Details of what goes in the field are described in the HL7 CDA Digital Signature Standard balloted in Fall 2013.

c. The legalAuthenticator, if present, **MAY** contain zero or one [0..1] **sdtc:signatureText** (CONF:1198-30810).
Note: The signature can be represented either inline or by reference according to the ED data type. Typical cases for CDA are:
1) Electronic signature: this attribute can represent virtually any electronic signature scheme.
2) Digital signature: this attribute can represent digital signatures by reference to a signature data block that is constructed in accordance to a digital signature standard, such as XML-DSIG, PKCS#7, PGP, etc.

d. The legalAuthenticator, if present, **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:1198-5585).

    i. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:1198-5586).

        1. Such ids **MAY** contain zero or one [0..1] **@root**="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1198-16823).

    ii. This assignedEntity **MAY** contain zero or one [0..1] **code**, which **SHOULD** be selected from ValueSet **Healthcare Provider Taxonomy (HIPAA)** urn:oid:2.16.840.1.114222.4.11.1066 **DYNAMIC** (CONF:1198-17000).

    iii. This assignedEntity **SHALL** contain at least one [1..*] **US Realm Address (AD.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1198-5589).

    iv. This assignedEntity **SHALL** contain at least one [1..*] **telecom** (CONF:1198-5595).

        1. Such telecoms **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet **Telecom Use (US Realm Header)** urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:1198-7999).

    v. This assignedEntity **SHALL** contain exactly one [1..1] **assignedPerson** (CONF:1198-5597).

        1. This assignedPerson **SHALL** contain at least one [1..*] **US Realm Person Name (PN.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1198-5598).

1.1.1.11 authenticator

The authenticator identifies a participant or participants who attest to the accuracy of the information in the document.

20. **MAY** contain zero or more [0..*] **authenticator** (CONF:1198-5607) such that it

    a. **SHALL** contain exactly one [1..1] **US Realm Date and Time (DTM.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4) (CONF:1198-5608).

    b. **SHALL** contain exactly one [1..1] **signatureCode** (CONF:1198-5610).

        i. This signatureCode **SHALL** contain exactly one [1..1] **@code**="S" (CodeSystem: HL7ParticipationSignature urn:oid:2.16.840.1.113883.5.89 **STATIC**) (CONF:1198-5611).

The sdtc:signatureText extension provides a location in CDA for a textual or multimedia depiction of the signature by which the participant endorses and accepts responsibility for his or her participation in the Act as specified in the Participation.typeCode. Details of what goes in the field are described in the HL7 CDA Digital Signature Standard balloted in Fall of 2013.

    c. **MAY** contain zero or one [0..1] **sdtc:signatureText** (CONF:1198-30811).
Note: The signature can be represented either inline or by reference according to the ED data type. Typical cases for CDA are:
1) Electronic signature: this attribute can represent virtually any electronic signature scheme.

2) Digital signature: this attribute can represent digital signatures by reference to a signature data block that is constructed in accordance to a digital signature standard, such as XML-DSIG, PKCS#7, PGP, etc.

    d. **SHALL** contain exactly one [1..1] `assignedEntity` (CONF:1198-5612).

        i. This assignedEntity **SHALL** contain at least one [1..*] `id` (CONF:1198-5613).

            1. Such ids **SHOULD** contain zero or one [0..1] `@root`="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1198-16824).

        ii. This assignedEntity **MAY** contain zero or one [0..1] `code` (CONF:1198-16825).

            1. The code, if present, **MAY** contain zero or one [0..1] `@code`, which **SHOULD** be selected from ValueSet **Healthcare Provider Taxonomy (HIPAA)** urn:oid:2.16.840.1.114222.4.11.1066 **STATIC** (CONF:1198-16826).

        iii. This assignedEntity **SHALL** contain at least one [1..*] **US Realm Address (AD.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1198-5616).

        iv. This assignedEntity **SHALL** contain at least one [1..*] `telecom` (CONF:1198-5622).

            1. Such telecoms **SHOULD** contain zero or one [0..1] `@use`, which **SHALL** be selected from ValueSet **Telecom Use (US Realm Header)** urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:1198-8000).

        v. This assignedEntity **SHALL** contain exactly one [1..1] `assignedPerson` (CONF:1198-5624).

            1. This assignedPerson **SHALL** contain at least one [1..*] **US Realm Person Name (PN.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1198-5625).

1.1.1.12 participant

The participant element identifies supporting entities, including parents, relatives, caregivers, insurance policyholders, guarantors, and others related in some way to the patient.

A supporting person or organization is an individual or an organization with a relationship to the patient. A supporting person who is playing multiple roles would be recorded in multiple participants (e.g., emergency contact and next-of-kin).

21. **MAY** contain zero or more [0..*] `participant` (CONF:1198-10003) such that it

    a. **MAY** contain zero or one [0..1] `time` (CONF:1198-10004).

    b. **SHALL** contain associatedEntity/associatedPerson **AND/OR** associatedEntity/scopingOrganization (CONF:1198-10006).

    c. When participant/@typeCode is **IND**, associatedEntity/@classCode **SHOULD** be selected from ValueSet 2.16.840.1.113883.11.20.9.33 INDRoleclassCodes **STATIC 2011-09-30** (CONF:1198-10007).

1.1.1.13 inFulfillmentOf

The inFulfillmentOf element represents orders that are fulfilled by this document such as a radiologists' report of an x-ray.

22. **MAY** contain zero or more [0..*] **inFulfillmentOf** (CONF:1198-9952).

    a. The inFulfillmentOf, if present, **SHALL** contain exactly one [1..1] **order** (CONF:1198-9953).

        i. This order **SHALL** contain at least one [1..*] **id** (CONF:1198-9954).

1.1.1.14 documentationOf

23. **MAY** contain zero or more [0..*] **documentationOf** (CONF:1198-14835).

A serviceEvent represents the main act being documented, such as a colonoscopy or a cardiac stress study. In a provision of healthcare serviceEvent, the care providers, PCP, or other longitudinal providers, are recorded within the serviceEvent. If the document is about a single encounter, the providers associated can be recorded in the componentOf/encompassingEncounter template.

    a. The documentationOf, if present, **SHALL** contain exactly one [1..1] **serviceEvent** (CONF:1198-14836).

        i. This serviceEvent **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1198-14837).

            1. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1198-14838).

1.1.1.15 performer

The performer participant represents clinicians who actually and principally carry out the serviceEvent. In a transfer of care this represents the healthcare providers involved in the current or pertinent historical care of the patient. Preferably, the patient's key healthcare care team members would be listed, particularly their primary physician and any active consulting physicians, therapists, and counselors.

        ii. This serviceEvent **SHOULD** contain zero or more [0..*] **performer** (CONF:1198-14839).

            1. The performer, if present, **SHALL** contain exactly one [1..1] @**typeCode**, which **SHALL** be selected from ValueSet **x ServiceEventPerformer** urn:oid:2.16.840.1.113883.1.11.19601 **STATIC** (CONF:1198-14840).

            2. The performer, if present, **MAY** contain zero or one [0..1] **functionCode** (CONF:1198-16818).

                a. The functionCode, if present, **SHOULD** contain zero or one [0..1] @**code**, which **SHOULD** be selected from ValueSet **ParticipationFunction** urn:oid:2.16.840.1.113883.1.11.10267 **STATIC** (CONF:1198-32889).

3. The performer, if present, **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:1198-14841).

   a. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:1198-14846).

      i. Such ids **SHOULD** contain zero or one [0..1] **@root**="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1198-14847).

   b. This assignedEntity **SHOULD** contain zero or one [0..1] **code**, which **SHOULD** be selected from ValueSet **Healthcare Provider Taxonomy (HIPAA)** urn:oid:2.16.840.1.114222.4.11.1066 **DYNAMIC** (CONF:1198-14842).

1.1.1.16 authorization

The authorization element represents information about the patient's consent.

The type of consent is conveyed in consent/code. Consents in the header have been finalized (consent/statusCode must equal Completed) and should be on file. This specification does not address how 'Privacy Consent' is represented, but does not preclude the inclusion of 'Privacy Consent'.

The authorization consent is used for referring to consents that are documented elsewhere in the EHR or medical record for a health condition and/or treatment that is described in the CDA document.

24. **MAY** contain zero or more [0..*] **authorization** (CONF:1198-16792) such that it

    a. **SHALL** contain exactly one [1..1] **consent** (CONF:1198-16793).

       i. This consent **MAY** contain zero or more [0..*] **id** (CONF:1198-16794).

       ii. This consent **MAY** contain zero or one [0..1] **code** (CONF:1198-16795). Note: The type of consent (e.g., a consent to perform the related serviceEvent) is conveyed in consent/code.

       iii. This consent **SHALL** contain exactly one [1..1] **statusCode** (CONF:1198-16797).

          1. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" Completed (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1198-16798).

1.1.1.17 componentOf

The encompassing encounter represents the setting of the clinical encounter during which the document act(s) or ServiceEvent(s) occurred. In order to represent providers associated with a specific encounter, they are recorded within the encompassingEncounter as participants. In a CCD, the encompassingEncounter may be used when documenting a specific encounter and its participants. All relevant encounters in a CCD may be listed in the encounters section.

25. **MAY** contain zero or one [0..1] **componentOf** (CONF:1198-9955).

    a. The componentOf, if present, **SHALL** contain exactly one [1..1] **encompassingEncounter** (CONF:1198-9956).

> i. This encompassingEncounter **SHALL** contain at least one [1..*] **id** (CONF:1198-9959).
>
> ii. This encompassingEncounter **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1198-9958).

Table 3: Race

Value Set: Race urn:oid:2.16.840.1.113883.1.11.14914

Concepts in the race value set include the 5 minimum categories for race specified by OMB along with a more detailed set of race categories used by the Bureau of Census.

Value Set Source: **https://vsac.nlm.nih.gov/**

Code	Code System	Code System OID	Print Name
1002-5	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	American Indian or Alaska Native
2028-9	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Asian
2054-5	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Black or African American
2076-8	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Native Hawaiian or Other Pacific Islander
2106-3	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	White
1006-6	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Abenaki
1579-2	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Absentee Shawnee
1490-2	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Acoma
2126-1	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Afghanistani
1740-0	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Ahtna
...			

Table 4: HL7 BasicConfidentialityKind

Value Set: HL7 BasicConfidentialityKind urn:oid:2.16.840.1.113883.1.11.16926

A value set of HL7 Code indication the level of confidentiality an act.

Value Set Source: **https://vsac.nlm.nih.gov/**

Code	Code System	Code System OID	Print Name
N	HL7Confidentiality	urn:oid:2.16.840.1.113883.5.25	normal
R	HL7Confidentiality	urn:oid:2.16.840.1.113883.5.25	restricted
V	HL7Confidentiality	urn:oid:2.16.840.1.113883.5.25	very restricted

Table 5: Language

Value Set: Language urn:oid:2.16.840.1.113883.1.11.11526
A value set of codes defined by Internet RFC 4646 (replacing RFC 3066). Please see ISO 639 language code set maintained by Library of Congress for enumeration of language codes.
Value Set Source: **http://www.loc.gov/standards/iso639-2/php/code_list.php**

Code	Code System	Code System OID	Print Name
Aa	Language	urn:oid:2.16.840.1.113883.6.121	Afar
Ab	Language	urn:oid:2.16.840.1.113883.6.121	Abkhazian
Ace	Language	urn:oid:2.16.840.1.113883.6.121	Achinese
Ach	Language	urn:oid:2.16.840.1.113883.6.121	Acoli
Ada	Language	urn:oid:2.16.840.1.113883.6.121	Adangme
Ady	Language	urn:oid:2.16.840.1.113883.6.121	Adyghe; Adygei
Ae	Language	urn:oid:2.16.840.1.113883.6.121	Avestan
Af	Language	urn:oid:2.16.840.1.113883.6.121	Afrikaans
Afa	Language	urn:oid:2.16.840.1.113883.6.121	Afro-Asiatic (Other)
Afh	Language	urn:oid:2.16.840.1.113883.6.121	Afrihili
...			

Table 6: Telecom Use (US Realm Header)

Value Set: Telecom Use (US Realm Header) urn:oid:2.16.840.1.113883.11.20.9.20
Value Set Source: **https://vsac.nlm.nih.gov/**

Code	Code System	Code System OID	Print Name
HP	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	Primary home
HV	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	Vacation home
WP	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	Work place
MC	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	Mobile contact

Table 7: Administrative Gender (HL7 V3)

Value Set: Administrative Gender (HL7 V3) urn:oid:2.16.840.1.113883.1.11.1

Administrative Gender based upon HL7 V3 vocabulary. This value set contains only male, female and undifferentiated concepts.

Value Set Source: **https://vsac.nlm.nih.gov/**

Code	Code System	Code System OID	Print Name
F	HL7AdministrativeGender	urn:oid:2.16.840.1.113883.5.1	Female
M	HL7AdministrativeGender	urn:oid:2.16.840.1.113883.5.1	Male
UN	HL7AdministrativeGender	urn:oid:2.16.840.1.113883.5.1	Undifferentiated

Table 8: Marital Status

Value Set: Marital Status urn:oid:2.16.840.1.113883.1.11.12212

Marital Status is the domestic partnership status of a person.

Value Set Source: **https://vsac.nlm.nih.gov/**

Code	Code System	Code System OID	Print Name
A	HL7MaritalStatus	urn:oid:2.16.840.1.113883.5.2	Annulled
D	HL7MaritalStatus	urn:oid:2.16.840.1.113883.5.2	Divorced
T	HL7MaritalStatus	urn:oid:2.16.840.1.113883.5.2	Domestic partner
I	HL7MaritalStatus	urn:oid:2.16.840.1.113883.5.2	Interlocutory
L	HL7MaritalStatus	urn:oid:2.16.840.1.113883.5.2	Legally Separated
M	HL7MaritalStatus	urn:oid:2.16.840.1.113883.5.2	Married
S	HL7MaritalStatus	urn:oid:2.16.840.1.113883.5.2	Never Married
P	HL7MaritalStatus	urn:oid:2.16.840.1.113883.5.2	Polygamous
W	HL7MaritalStatus	urn:oid:2.16.840.1.113883.5.2	Widowed

Table 9: Religious Affiliation

Value Set: Religious Affiliation urn:oid:2.16.840.1.113883.1.11.19185 A value set of codes that reflect spiritual faith affiliation. Value Set Source: **https://vsac.nlm.nih.gov/**			
Code	**Code System**	**Code System OID**	**Print Name**
1001	HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Adventist
1002	HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	African Religions
1003	HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Afro-Caribbean Religions
1004	HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Agnosticism
1005	HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Anglican
1006	HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Animism
1007	HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Atheism
1008	HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Babi & Baha'I faiths
1009	HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Baptist
1010	HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Bon
...			

Table 10: Race Category Excluding Nulls

Value Set: Race Category Excluding Nulls urn:oid:2.16.840.1.113883.3.2074.1.1.3 Value Set Source: **https://vsac.nlm.nih.gov/**			
Code	**Code System**	**Code System OID**	**Print Name**
1002-5	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	American Indian or Alaska Native
2028-9	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Asian
2054-5	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Black or African American
2076-8	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Native Hawaiian or Other Pacific Islander
2106-3	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	White

Table 11: Ethnicity

Value Set: Ethnicity urn:oid:2.16.840.1.114222.4.11.837				
Code System: Race & Ethnicity - CDC 2.16.840.1.113883.6.238				
Value Set Source: **https://vsac.nlm.nih.gov/**				
Code	Code System	Code System OID	Print Name
2135-2	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Hispanic or Latino
2186-5	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Not Hispanic or Latino

Table 12: Personal And Legal Relationship Role Type

Value Set: Personal And Legal Relationship Role Type urn:oid:2.16.840.1.113883.11.20.12.1				
A personal or legal relationship records the role of a person in relation to another person, or a person to himself or herself. This value set is to be used when recording relationships based on personal or family ties or through legal assignment of responsibility.				
Value Set Source: **https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.11.20.12.1**				
Code	Code System	Code System OID	Print Name
SELF	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	self
MTH	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	mother
FTH	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	father
DAU	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	natural daughter
SON	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	natural son
DAUINLAW	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	daughter in-law
SONINLAW	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	son in-law
GUARD	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	guardian
HPOWATT	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	healthcare power of attorney
...			

Table 13: Country

Value Set: Country urn:oid:2.16.840.1.113883.3.88.12.80.63

This identifies the codes for the representation of names of countries, territories and areas of geographical interest.

Value Set Source: **http://www.iso.org/iso/country_codes/iso_3166_code_lists.htm**

Code	Code System	Code System OID	Print Name
AW	Country	urn:oid:2.16.840.1.113883.3.88.12.80.63	Aruba
IL	Country	urn:oid:2.16.840.1.113883.3.88.12.80.63	Israel
...			

Table 14: PostalCode

Value Set: PostalCode urn:oid:2.16.840.1.113883.3.88.12.80.2

A value set of postal (ZIP) Code of an address in the United States

Value Set Source: **http://ushik.ahrq.gov/ViewItemDetails?system=mdr&itemKey=86671000**

Code	Code System	Code System OID	Print Name
19009	USPostalCodes	urn:oid:2.16.840.1.113883.6.231	Bryn Athyn
92869-1736	USPostalCodes	urn:oid:2.16.840.1.113883.6.231	Orange, CA
32830-8413	USPostalCodes	urn:oid:2.16.840.1.113883.6.231	Lake Buena Vista, FL
...			

Table 15: LanguageAbilityMode

Value Set: LanguageAbilityMode urn:oid:2.16.840.1.113883.1.11.12249 This identifies the language ability of the individual. A value representing the method of expression of the language. Value Set Source: **https://vsac.nlm.nih.gov/**			
Code	**Code System**	**Code System OID**	**Print Name**
ESGN	HL7LanguageAbilityMode	urn:oid:2.16.840.1.113883.5.60	Expressed signed
ESP	HL7LanguageAbilityMode	urn:oid:2.16.840.1.113883.5.60	Expressed spoken
EWR	HL7LanguageAbilityMode	urn:oid:2.16.840.1.113883.5.60	Expressed written
RSGN	HL7LanguageAbilityMode	urn:oid:2.16.840.1.113883.5.60	Received signed
RSP	HL7LanguageAbilityMode	urn:oid:2.16.840.1.113883.5.60	Received spoken
RWR	HL7LanguageAbilityMode	urn:oid:2.16.840.1.113883.5.60	Received written

Table 16: LanguageAbilityProficiency

Value Set: LanguageAbilityProficiency urn:oid:2.16.840.1.113883.1.11.12199 Value Set Source: **https://vsac.nlm.nih.gov/**			
Code	**Code System**	**Code System OID**	**Print Name**
E	HL7LanguageAbilityProficiency	urn:oid:2.16.840.1.113883.5.61	Excellent
F	HL7LanguageAbilityProficiency	urn:oid:2.16.840.1.113883.5.61	Fair
G	HL7LanguageAbilityProficiency	urn:oid:2.16.840.1.113883.5.61	Good
P	HL7LanguageAbilityProficiency	urn:oid:2.16.840.1.113883.5.61	Poor

Table 17: Detailed Ethnicity

Value Set: Detailed Ethnicity urn:oid:2.16.840.1.114222.4.11.877

List of detailed ethnicity codes reported on a limited basis

Value Set Source:
https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.877

Code	Code System	Code System OID	Print Name
2138-6	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Andalusian
2166-7	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Argentinean
2139-4	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Asturian
2142-8	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Belearic Islander
2167-5	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Bolivian
2163-4	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Canal Zone
2145-1	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Canarian
2140-2	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Castillian
2141-0	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Catalonian
2155-0	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Central American
...			

Table 18: Healthcare Provider Taxonomy (HIPAA)

Value Set: Healthcare Provider Taxonomy (HIPAA) urn:oid:2.16.840.1.114222.4.11.1066

The Health Care Provider Taxonomy value set is a collection of unique alphanumeric codes, ten characters in length. The code set is structured into three distinct Levels including Provider Type, Classification, and Area of Specialization. The Health Care Provider Taxonomy code set allows a single provider (individual, group, or institution) to identify their specialty category. Providers may have one or more than one value associated to them. When determining what value or values to associate with a provider, the user needs to review the requirements of the trading partner with which the value(s) are being used.

Value Set Source:
https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.1066

Code	Code System	Code System OID	Print Name
171100000X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101	Acupuncturist
363LA2100X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101	Nurse Practitioner - Acute Care
364SA2100X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101	Clinical Nurse Specialist - Acute Care
101YA0400X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101	Counselor - Addiction (Substance Use Disorder)
103TA0400X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101	Psychologist - Addiction (Substance Use Disorder)
163WA0400X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101	Registered Nurse - Addiction (Substance Use Disorder)
207LA0401X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101	Anesthesiology - Addiction Medicine
207QA0401X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101	Family Medicine - Addiction Medicine
207RA0401X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101	Internal Medicine - Addiction Medicine
2084A0401X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101	Psychiatry & Neurology - Addiction Medicine
...			

Table 19: INDRoleclassCodes

Value Set: INDRoleclassCodes urn:oid:2.16.840.1.113883.11.20.9.33
Value Set Source: **https://vsac.nlm.nih.gov/**

Code	Code System	Code System OID	Print Name
PRS	HL7RoleClass	urn:oid:2.16.840.1.113883.5.110	personal relationship
NOK	HL7RoleClass	urn:oid:2.16.840.1.113883.5.110	next of kin
CAREGIVER	HL7RoleClass	urn:oid:2.16.840.1.113883.5.110	caregiver
AGNT	HL7RoleClass	urn:oid:2.16.840.1.113883.5.110	agent
GUAR	HL7RoleClass	urn:oid:2.16.840.1.113883.5.110	guarantor
ECON	HL7RoleClass	urn:oid:2.16.840.1.113883.5.110	emergency contact

Table 20: x_ServiceEventPerformer

Value Set: x_ServiceEventPerformer urn:oid:2.16.840.1.113883.1.11.19601
Value Set Source:
http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html

Code	Code System	Code System OID	Print Name
PRF	HL7ParticipationType	urn:oid:2.16.840.1.113883.5.90	performer
SPRF	HL7ParticipationType	urn:oid:2.16.840.1.113883.5.90	secondary performer
PPRF	HL7ParticipationType	urn:oid:2.16.840.1.113883.5.90	primary performer

Table 21: ParticipationFunction

| Value Set: ParticipationFunction urn:oid:2.16.840.1.113883.1.11.10267
This HL7-defined value set can be used to specify the exact function an actor had in a service in all necessary detail.
Value Set Source: **https://vsac.nlm.nih.gov/** |
Code	Code System	Code System OID	Print Name
SNRS	HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88	Scrub nurse
SASST	HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88	Second assistant surgeon
_AuthorizedParticipationFunction	HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88	AuthorizedParticipationFunction
_AuthorizedReceiverParticipationFunction	HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88	AuthorizedReceiverParticipationFunction
AUCG	HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88	caregiver information receiver
AULR	HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88	legitimate relationship information receiver
AUTM	HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88	care team information receiver
AUWA	HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88	work area information receiver
_ConsenterParticipationFunction	HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88	ConsenterParticipationFunction
GRDCON	HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88	legal guardian consent author
…			

Figure 1: US Realm Header (V3) Example

```
<ClinicalDocument>
    <realmCode code="US" />
    <typeId extension="POCD_HD000040" root="2.16.840.1.113883.1.3" />
    <!-- CCD template -->
    <templateId root="2.16.840.1.113883.10.20.22.1.1" extension="2015-08-01" />
    <!-- Globally unique identifier for the document  -->
    <id extension="TT988" root="2.16.840.1.113883.19.5.99999.1" />
    <code code="34133-9" displayName="Summarization of Episode Note"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" />
    <!-- Title of the document -->
    <title>Patient Chart Summary</title>
    <effectiveTime value="201209151030-0800" />
    <confidentialityCode code="N" displayName="normal" codeSystem="2.16.840.1.113883.5.25"
codeSystemName="Confidentiality" />
    <languageCode code="en-US" />
    <setId extension="sTT988" root="2.16.840.1.113883.19.5.99999.19" />
    <!-- Version of the document -->
    <versionNumber value="1" />
    . . .
</ClinicalDocument>
```

Figure 2: recordTarget Example

```
<recordTarget>
    <patientRole>
        <id extension="444-22-2222" root="2.16.840.1.113883.4.1" />
        <!-- Example Social Security Number using the actual SSN OID. -->
        <addr use="HP">
            <!-- HP is "primary home" from codeSystem 2.16.840.1.113883.5.1119 -->
            <streetAddressLine>2222 Home Street</streetAddressLine>
            <city>Beaverton</city>
            <state>OR</state>
            <postalCode>97867</postalCode>
            <country>US</country>
            <!-- US is "United States" from ISO 3166-1 Country Codes: 1.0.3166.1 -->
        </addr>
        <telecom value="tel:+1(555)555-2003" use="HP" />
        <!-- HP is "primary home" from HL7 AddressUse 2.16.840.1.113883.5.1119 -->
        <patient>
            <!-- The first name element represents what the patient is known as -->
            <name use="L">
                <given>Eve</given>
                <!-- The "SP" is "Spouse" from
                    HL7 Code System EntityNamePartQualifier 2.16.840.1.113883.5.43 -->
                <family qualifier="SP">Betterhalf</family>
            </name>
            <!-- The second name element represents another name
                 associated with the patient -->
            <name>
                <given>Eve</given>
                <!-- The "BR" is "Birth" from
                    HL7 Code System EntityNamePartQualifier 2.16.840.1.113883.5.43 -->
                <family qualifier="BR">Everywoman</family>
            </name>
            <administrativeGenderCode code="F" displayName="Female"
codeSystem="2.16.840.1.113883.5.1" codeSystemName="AdministrativeGender" />
            <!-- Date of birth need only be precise to the day -->
            <birthTime value="19750501" />
            <maritalStatusCode code="M" displayName="Married"
codeSystem="2.16.840.1.113883.5.2" codeSystemName="MaritalStatusCode" />
            <religiousAffiliationCode code="1013" displayName="Christian (non-Catholic,
non-specific)" codeSystem="2.16.840.1.113883.5.1076" codeSystemName="HL7 Religious
Affiliation" />
            <!-- CDC Race and Ethnicity code set contains the five minimum
                 race and ethnicity categories defined by OMB Standards -->
            <raceCode code="2106-3" displayName="White"
codeSystem="2.16.840.1.113883.6.238" codeSystemName="Race & Ethnicity - CDC" />
            <!-- The raceCode extension is only used if raceCode is valued -->
            <sdtc:raceCode code="2076-8" displayName="Hawaiian or Other Pacific Islander"
codeSystem="2.16.840.1.113883.6.238" codeSystemName="Race & Ethnicity - CDC" />
            <ethnicGroupCode code="2186-5" displayName="Not Hispanic or Latino"
codeSystem="2.16.840.1.113883.6.238" codeSystemName="Race & Ethnicity - CDC" />
            <guardian>
                <code code="POWATT" displayName="Power of Attorney"
codeSystem="2.16.840.1.113883.1.11.19830" codeSystemName="ResponsibleParty" />
                <addr use="HP">
                    <streetAddressLine>2222 Home Street</streetAddressLine>
                    <city>Beaverton</city>
```

```
                <state>OR</state>
                <postalCode>97867</postalCode>
                <country>US</country>
            </addr>
            <telecom value="tel:+1(555)555-2008" use="MC" />
            <guardianPerson>
                <name>
                    <given>Boris</given>
                    <given qualifier="CL">Bo</given>
                    <family>Betterhalf</family>
                </name>
            </guardianPerson>
        </guardian>
        <birthplace>
            <place>
                <addr>
                    <streetAddressLine>4444 Home Street</streetAddressLine>
                    <city>Beaverton</city>
                    <state>OR</state>
                    <postalCode>97867</postalCode>
                    <country>US</country>
                </addr>
            </place>
        </birthplace>
        <languageCommunication>
            <languageCode code="eng" />
            <!-- "eng" is ISO 639-2 alpha-3 code for "English" -->
            <modeCode code="ESP" displayName="Expressed spoken"
codeSystem="2.16.840.1.113883.5.60" codeSystemName="LanguageAbilityMode" />
            <proficiencyLevelCode code="G" displayName="Good"
codeSystem="2.16.840.1.113883.5.61" codeSystemName="LanguageAbilityProficiency" />
            <!-- Patient's preferred language -->
            <preferenceInd value="true" />
        </languageCommunication>
    </patient>
    <providerOrganization>
        <id extension="219BX" root="1.1.1.1.1.1.1.1.2" />
        <name>The DoctorsTogether Physician Group</name>
        <telecom use="WP" value="tel: +(555)-555-5000" />
        <addr>
            <streetAddressLine>1007 Health Drive</streetAddressLine>
            <city>Portland</city>
            <state>OR</state>
            <postalCode>99123</postalCode>
            <country>US</country>
        </addr>
    </providerOrganization>
  </patientRole>
</recordTarget>
```

Figure 3: author Example

```
<author>
    <time value="201209151030-0800" />
    <assignedAuthor>
        <id extension="5555555555" root="2.16.840.1.113883.4.6" />
        <code code="163W00000X" displayName="Registered nurse"
codeSystem="2.16.840.1.113883.5.53" codeSystemName="Health Care Provider Taxonomy" />
        <addr>
            <streetAddressLine>1004 Healthcare Drive </streetAddressLine>
            <city>Portland</city>
            <state>OR</state>
            <postalCode>99123</postalCode>
            <country>US</country>
        </addr>
        <telecom use="WP" value="tel:+1(555)555-1004" />
        <assignedPerson>
            <name>
                <given>Patricia</given>
                <given qualifier="CL">Patty</given>
                <family>Primary</family>
                <suffix qualifier="AC">M.D.</suffix>
            </name>
        </assignedPerson>
    </assignedAuthor>
</author>
```

Figure 4: dateEnterer Example

```
<dataEnterer>
    <assignedEntity>
        <id extension="333777777" root="2.16.840.1.113883.4.6" />
        <addr>
            <streetAddressLine>1007 Healthcare Drive</streetAddressLine>
            <city>Portland</city>
            <state>OR</state>
            <postalCode>99123</postalCode>
            <country>US</country>
        </addr>
        <telecom use="WP" value="tel:+1(555)555-1050" />
        <assignedPerson>
            <name>
                <given>Ellen</given>
                <family>Enter</family>
            </name>
        </assignedPerson>
    </assignedEntity>
</dataEnterer>
```

Figure 5: Assigned Health Care Provider informant Example

```
<informant>
    <assignedEntity>
        <id extension="888888888" root="1.1.1.1.1.1.1.3" />
        <addr>
            <streetAddressLine>1007 Healthcare Drive</streetAddressLine>
            <city>Portland</city>
            <state>OR</state>
            <postalCode>99123</postalCode>
            <country>US</country>
        </addr>
        <telecom use="WP" value="tel:+1(555)555-1003" />
        <assignedPerson>
            <name>
                <given>Harold</given>
                <family>Hippocrates</family>
                <suffix qualifier="AC">M.D.</suffix>
            </name>
        </assignedPerson>
        <representedOrganization>
            <name>The DoctorsApart Physician Group</name>
        </representedOrganization>
    </assignedEntity>
</informant>
```

Figure 6: Personal Relation informant Example

```
<informant>
    <relatedEntity classCode="PRS">
        <!-- classCode "PRS" represents a person with personal relationship with the
patient -->
        <code code="SPS" displayName="SPOUSE" codeSystem="2.16.840.1.113883.1.11.19563"
codeSystemName="Personal Relationship Role Type Value Set" />
        <relatedPerson>
            <name>
                <given>Boris</given>
                <given qualifier="CL">Bo</given>
                <family>Betterhalf</family>
            </name>
        </relatedPerson>
    </relatedEntity>
</informant>
```

Figure 7: custodian Example

```xml
<custodian>
    <assignedCustodian>
        <representedCustodianOrganization>
            <id extension="321CX" root="1.1.1.1.1.1.1.1.3" />
            <name>Good Health HIE</name>
            <telecom use="WP" value="tel:+1(555)555-1009" />
            <addr use="WP">
                <streetAddressLine>1009 Healthcare Drive </streetAddressLine>
                <city>Portland</city>
                <state>OR</state>
                <postalCode>99123</postalCode>
                <country>US</country>
            </addr>
        </representedCustodianOrganization>
    </assignedCustodian>
</custodian>
```

Figure 8: informationRecipient Example

```xml
<informationRecipient>
    <intendedRecipient>
        <informationRecipient>
            <name>
                <given>Sara</given>
                <family>Specialize</family>
                <suffix qualifier="AC">M.D.</suffix>
            </name>
        </informationRecipient>
        <receivedOrganization>
            <name>The DoctorsApart Physician Group</name>
        </receivedOrganization>
    </intendedRecipient>
</informationRecipient>
```

Figure 9: Digital signature Example

```xml
<sdtc:signatureText mediaType="text/xml"
representation="B64">omSJUEdmde9j44zmMiromSJUEdmde9j44zmMirdMDSsWdIJdksIJR3373jeu83
    6edjzMMIjdMDSsWdIJdksIJR3373jeu83MNYD83jmMdomSJUEdmde9j44zmMir
    ... MNYD83jmMdomSJUEdmde9j44zmMir6edjzMMIjdMDSsWdIJdksIJR3373jeu83
    4zmMir6edjzMMIjdMDSsWdIJdksIJR3373jeu83==</sdtc:signatureText>
```

Figure 10: legalAuthenticator Example

```
<legalAuthenticator>
    <time value="20120915223615-0800" />
    <signatureCode code="S" />
    <assignedEntity>
        <id extension="5555555555" root="2.16.840.1.113883.4.6" />
        <code code="207QA0505X" displayName="Adult Medicine"
codeSystem="2.16.840.1.113883.5.53" codeSystemName="Health Care Provider Taxonomy" />
        <addr>
            <streetAddressLine>1004 Healthcare Drive </streetAddressLine>
            <city>Portland</city>
            <state>OR</state>
            <postalCode>99123</postalCode>
            <country>US</country>
        </addr>
        <telecom use="WP" value="tel:+1(555)555-1004" />
        <assignedPerson>
            <name>
                <given>Patricia</given>
                <given qualifier="CL">Patty</given>
                <family>Primary</family>
                <suffix qualifier="AC">M.D.</suffix>
            </name>
        </assignedPerson>
    </assignedEntity>
</legalAuthenticator>
```

Figure 11: authenticator Example

```
<authenticator>
    <time value="201209151030-0800" />
    <signatureCode code="S" />
    <assignedEntity>
        <id extension="5555555555" root="2.16.840.1.113883.4.6" />
        <code code="207QA0505X" displayName="Adult Medicine"
codeSystem="2.16.840.1.113883.5.53" codeSystemName="Health Care Provider Taxonomy" />
        <addr>
            <streetAddressLine>1004 Healthcare Drive</streetAddressLine>
            <city>Portland</city>
            <state>OR</state>
            <postalCode>99123</postalCode>
            <country>US</country>
        </addr>
        <telecom use="WP" value="tel:+1(555)555-1004" />
        <assignedPerson>
            <name>
                <given>Patricia</given>
                <given qualifier="CL">Patty</given>
                <family>Primary</family>
                <suffix qualifier="AC">M.D.</suffix>
            </name>
        </assignedPerson>
    </assignedEntity>
</authenticator>
```

Figure 12: Supporting Person participant Example

```xml
<participant typeCode="IND">
    <!-- typeCode "IND" represents an individual -->
    <associatedEntity classCode="NOK">
        <!-- classCode "NOK" represents the patient's next of kin-->
        <addr use="HP">
            <streetAddressLine>2222 Home Street</streetAddressLine>
            <city>Beaverton</city>
            <state>OR</state>
            <postalCode>97867</postalCode>
            <country>US</country>
        </addr>
        <telecom value="tel:+1(555)555-2008" use="MC" />
        <associatedPerson>
            <name>
                <given>Boris</given>
                <given qualifier="CL">Bo</given>
                <family>Betterhalf</family>
            </name>
        </associatedPerson>
    </associatedEntity>
</participant>
<!-- Entities playing multiple roles are recorded in multiple participants -->
<participant typeCode="IND">
    <associatedEntity classCode="ECON">
        <!-- classCode "ECON" represents an emergency contact -->
        <addr use="HP">
            <streetAddressLine>2222 Home Street</streetAddressLine>
            <city>Beaverton</city>
            <state>OR</state>
            <postalCode>97867</postalCode>
            <country>US</country>
        </addr>
        <telecom value="tel:+1(555)555-2008" use="MC" />
        <associatedPerson>
            <name>
                <given>Boris</given>
                <given qualifier="CL">Bo</given>
                <family>Betterhalf</family>
            </name>
        </associatedPerson>
    </associatedEntity>
</participant>
```

Figure 13: inFulfillmentOf Example

```xml
<inFulfillmentOf typeCode="FLFS">
    <order classCode="ACT" moodCode="RQO">
        <id root="2.16.840.1.113883.6.96" extension="1298989898" />
        <code code="388975008" displayName="Weight Reduction Consultation"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="CPT4" />
    </order>
</inFulfillmentOf>
```

Figure 14: performer Example

```
<performer typeCode="PRF">
    <functionCode code="PCP"
                displayName="Primary Care Provider"
                codeSystem="2.16.840.1.113883.5.88"
                codeSystemName="ParticipationFunction">
        <originalText>Primary Care Provider</originalText>
    </functionCode>
    <assignedEntity>
        <id extension="5555555555" root="2.16.840.1.113883.4.6" />
        <code code="207QA0505X" displayName="Adult Medicine"
codeSystem="2.16.840.1.113883.5.53" codeSystemName="Health Care Provider Taxonomy" />
        <addr>
            <streetAddressLine>1004 Healthcare Drive </streetAddressLine>
            <city>Portland</city>
            <state>OR</state>
            <postalCode>99123</postalCode>
            <country>US</country>
        </addr>
        <telecom use="WP" value="tel:+1(555)555-1004" />
        <assignedPerson>
            <name>
                <given>Patricia</given>
                <given qualifier="CL">Patty</given>
                <family>Primary</family>
                <suffix qualifier="AC">M.D.</suffix>
            </name>
        </assignedPerson>
        <representedOrganization>
            <id extension="219BX" root="1.1.1.1.1.1.1.1.2" />
            <name>The DoctorsTogether Physician Group</name>
            <telecom use="WP" value="tel: +(555)-555-5000" />
            <addr>
                <streetAddressLine>1004 Health Drive</streetAddressLine>
                <city>Portland</city>
                <state>OR</state>
                <postalCode>99123</postalCode>
                <country>US</country>
            </addr>
        </representedOrganization>
    </assignedEntity>
</performer>
```

Figure 15: documentationOf Example

```xml
<documentationOf>
    <serviceEvent classCode="PCPR">
        <!-- The effectiveTime reflects the provision of care summarized in the document.
    In this scenario, the provision of care summarized is the lifetime for the patient -->
        <effectiveTime>
            <low value="19750501" />
            <!-- The low value represents when the summarized provision of care began.
    In this scenario, the patient's date of birth -->
            <high value="20120915" />
            <!-- The high value represents when the summarized provision of care being
ended.
     In this scenario, when chart summary was created -->
        </effectiveTime>
        <performer typeCode="PRF">
            <functionCode code="PCP"
                                        displayName="Primary Care Provider"
                                        codeSystem="2.16.840.1.113883.5.88"
                                        codeSystemName="ParticipationFunction">
                <originalText>Primary Care Provider</originalText>
            </functionCode>
            <assignedEntity>
                <id extension="5555555555" root="2.16.840.1.113883.4.6" />
                <code code="207QA0505X" displayName="Adult Medicine"
codeSystem="2.16.840.1.113883.5.53" codeSystemName="Health Care Provider Taxonomy" />
                <addr>
                    <streetAddressLine>1004 Healthcare Drive </streetAddressLine>
                    <city>Portland</city>
                    <state>OR</state>
                    <postalCode>99123</postalCode>
                    <country>US</country>
                </addr>
                <telecom use="WP" value="tel:+1(555)555-1004" />
                <assignedPerson>
                    <name>
                        <given>Patricia</given>
                        <given qualifier="CL">Patty</given>
                        <family>Primary</family>
                        <suffix qualifier="AC">M.D.</suffix>
                    </name>
                </assignedPerson>
                <representedOrganization>
                    <id extension="219BX" root="1.1.1.1.1.1.1.1.2" />
                    <name>The DoctorsTogether Physician Group</name>
                    <telecom use="WP" value="tel: +(555)-555-5000" />
                    <addr>
                        <streetAddressLine>1004 Health Drive</streetAddressLine>
                        <city>Portland</city>
                        <state>OR</state>
                        <postalCode>99123</postalCode>
                        <country>US</country>
                    </addr>
                </representedOrganization>
            </assignedEntity>
        </performer>
    </serviceEvent>
```

```
</documentationOf>
```

Figure 16: authorization Example

```
<authorization typeCode="AUTH">
    <consent classCode="CONS" moodCode="EVN">
        <id root="629deb70-5306-11df-9879-0800200c9a66" />
        <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" code="64293-4"
displayName="Procedure consent" />
        <statusCode code="completed" />
    </consent>
</authorization>
```

1.1.2 Reportability Response Document (RR)

```
[ClinicalDocument: identifier
urn:hl7ii:2.16.840.1.113883.10.20.15.2.1.2:2017-04-01 (open)]

Draft as part of Reportability Response
```

Table 22: Reportability Response Document (RR) Contexts

Contained By:	Contains:
	Electronic Initial Case Report Section
	Reportability Response Subject Section
	Reportability Response Summary Section
	US Realm Address (AD.US.FIELDED)
	US Realm Date and Time (DTM.US.FIELDED)
	US Realm Person Name (PN.US.FIELDED)

The purpose of this implementation guide (IG) is to specify a standard for the creation of a Reportability Response (RR) document in Clinical Document Architecture, Release 2 (CDA R2) format.

This document will be created in response to an electronic Initial Case Report (eICR) CDA document and the sharing of the Reportability Response with clinical care will serve several functions, including to:

- Communicate the reportability of condition(s) in an electronic Initial Case Report (eICR)

- Indicate what Public Health Agency(ies) (PHAs) has been sent a report

- Identify necessary clinical follow-up activities including any additional reporting needs

- Provide clinical support information for identified reportable conditions

- Provide appropriate contact information for the primary responsible PHA

- Confirm eICR receipt and processing

A Reportability Response will also, when requested, be shared with the responsible PHAs (when they have not generated them) to monitor and track the reporting process and to understand what has been conveyed to clinical care organizations.

The Reportability Response CDA document is also structured to allow:

- Notification, alerting, routing and queueing in work or message management systems for clinical care personnel
- Dynamic and static URIs for supplemental data collection and the provision of information resources

The narrative structure of a Reportability Response CDA document can take two different forms, depending on the processing status of the eICR CDA document to which it is a response. These forms are as follows:

- If the eICR CDA document was processed, then all three top-level sections (Reportability Response Subject Section, Reportability Response Summary Section and Electronic Initial Case Report Section) will have narrative text elements:
    - Reportability Response Subject Section
        - Subject text
    - Electronic Initial Case Report Section
        - eICR Identifier
    - Reportability Response Summary Section
        - Summary text
        - Tables of links and their descriptions
- If the eICR CDA document was not processed because of errors, then only the Electronic Initial Case Report Section will have a narrative text element:
    - Electronic Initial Case Report Section
        - eICR Identifier (if available)
        - eICR Processing Error Reason(s)

Table 23: Reportability Response Document (RR) Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
ClinicalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.1.2:2017-04-01)					
templateId	1..1	SHALL		3315-28	
@root	1..1	SHALL		3315-66	2.16.840.1.113883.10.20.15.2.1.2
@extension	1..1	SHALL		3315-67	2017-04-01
code	1..1	SHALL		3315-79	urn:oid:2.16.840.1.113883.6.1 (LOINC)
@code	1..1	SHALL		3315-359	TEMP_CODE_REPORTABILITY_RESPONSE
@codeSystem	1..1	SHALL		3315-360	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
title	1..1	SHALL		3315-80	Reportability Response
effectiveTime	1..1	SHALL		3315-36	
@nullFlavor	0..0	SHALL NOT		3315-78	
recordTarget	1..1	SHALL		3315-29	
patientRole	1..1	SHALL		3315-30	
id	1..*	SHALL		3315-74	
addr	1..*	SHALL		3315-75	US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2
patient	1..1	SHALL		3315-31	
sdtc:deceasedInd	1..1	SHALL		3315-73	
sdtc:deceasedTime	0..1	MAY		3315-33	
guardian	0..*	SHOULD		3315-32	
addr	1..*	SHALL		3315-68	US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2
telecom	1..*	SHALL		3315-69	

guardianPerson	1..1	SHALL		[3315-70](#)	
languageCommunication	1..*	SHALL		[3315-72](#)	
author	1..*	SHALL		[3315-34](#)	
time	1..1	SHALL		[3315-35](#)	US Realm Date and Time (DTM.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4
@nullFlavor	0..0	SHALL NOT		[3315-76](#)	
assignedAuthor	1..1	SHALL		[3315-77](#)	
informationRecipient	1..*	SHALL		[3315-83](#)	
componentOf	1..1	SHALL		[3315-1](#)	
encompassingEncounter	1..1	SHALL		[3315-2](#)	
id	1..*	SHALL		[3315-54](#)	
code	1..1	SHALL		[3315-55](#)	urn:oid:2.16.840.1.113883.1.11.13955 (ActEncounterCode)
effectiveTime	1..1	SHALL		[3315-3](#)	
@nullFlavor	0..0	SHALL NOT		[3315-38](#)	
low	1..1	SHALL		[3315-39](#)	
high	1..1	SHALL		[3315-40](#)	
responsibleParty	1..1	SHALL		[3315-4](#)	
assignedEntity	1..1	SHALL		[3315-5](#)	
id	1..*	SHALL		[3315-7](#)	
@root	1..1	SHALL		[3315-41](#)	
@extension	0..1	MAY		[3315-42](#)	
addr	1..*	SHALL		[3315-45](#)	US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2
telecom	1..*	SHALL		[3315-46](#)	
assignedPerson	1..1	SHALL		[3315-6](#)	
name	1..1	SHALL		[3315-37](#)	US Realm Person Name (PN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1

representedOrganization	1..1	SHALL		3315-8	
name	1..1	SHALL		3315-43	
addr	1..1	SHALL		3315-44	US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2
location	1..1	SHALL		3315-9	
healthCareFacility	1..1	SHALL		3315-10	
id	1..1	SHALL		3315-11	
@root	1..1	SHALL		3315-47	
@extension	0..1	MAY		3315-48	
code	1..1	SHALL		3315-53	urn:oid:2.16.840.1.113883.1.11.17660 (ServiceDeliveryLocationRoleType)
location	1..1	SHALL		3315-12	
addr	1..1	SHALL		3315-49	US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2
serviceProviderOrganization	1..1	SHALL		3315-13	
name	1..1	SHALL		3315-50	
telecom	1..*	SHALL		3315-51	
addr	1..1	SHALL		3315-52	US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2
component	1..1	SHALL		3315-14	
structuredBody	1..1	SHALL		3315-141	
component	0..1	SHOULD		3315-142	
section	1..1	SHALL		3315-144	Reportability Response Subject Section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.1:2017-04-01
component	1..1	SHALL		3315-629	

section	1..1	SHALL		3315-630	Electronic Initial Case Report Section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.3:2017-04-01
component	0..1	SHOULD		3315-631	
section	1..1	SHALL		3315-632	Reportability Response Summary Section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.2:2017-04-01

1.1.3 Properties

1. Conforms to **US Realm Header (V3)** template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2015-08-01).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-28) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.1.2" (CONF:3315-66).
   b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-67).
3. **SHALL** contain exactly one [1..1] **code** (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3315-79).
   a. This code **SHALL** contain exactly one [1..1] **@code**="TEMP_CODE_REPORTABILITY_RESPONSE" Reportability Response Document (CONF:3315-359).
   b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3315-360).
4. **SHALL** contain exactly one [1..1] **title**="Reportability Response" (CONF:3315-80).
5. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:3315-36).
   Note: The effectiveTime indicates the date when the report was created and in almost all cases should correspond to the date when the public health case has been triggered.
   a. This effectiveTime **SHALL NOT** contain [0..0] **@nullFlavor** (CONF:3315-78).

1.1.3.1 recordTarget

The recordTarget records the administrative and demographic data of the patient. In the Reportability Response CDA document, this data will be sourced from the eICR CDA document to which this document is a response.

6. **SHALL** contain exactly one [1..1] **recordTarget** (CONF:3315-29).
   a. This recordTarget **SHALL** contain exactly one [1..1] **patientRole** (CONF:3315-30).
      i. This patientRole **SHALL** contain at least one [1..*] **id** (CONF:3315-74).
         Note: Patient ID: If multiple identifiers are available, a medical record number, Social Security number, Medicaid number, or all three *SHOULD* be provided in this field.

Although "county" is not explicitly specified in the US Realm Address, it is not precluded from use and for the purposes of this IG it is recommended to be included.

    ii. This patientRole **SHALL** contain at least one [1..*] **US Realm Address (AD.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:3315-75).

    iii. This patientRole **SHALL** contain exactly one [1..1] **patient** (CONF:3315-31).

        1. This patient **SHALL** contain exactly one [1..1] **sdtc:deceasedInd** (CONF:3315-73).

        2. This patient **MAY** contain zero or one [0..1] **sdtc:deceasedTime** (CONF:3315-33).

            a. If sdtc:deceasedInd is true then sdtc:deceasedTime **SHALL** be present (CONF:3315-71).

        3. This patient **SHOULD** contain zero or more [0..*] **guardian** (CONF:3315-32).

            a. The guardian, if present, **SHALL** contain at least one [1..*] **US Realm Address (AD.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:3315-68).

            b. The guardian, if present, **SHALL** contain at least one [1..*] **telecom** (CONF:3315-69).

            c. The guardian, if present, **SHALL** contain exactly one [1..1] **guardianPerson** (CONF:3315-70).

        4. This patient **SHALL** contain at least one [1..*] **languageCommunication** (CONF:3315-72).

1.1.3.2 author

For the Reportability Response CDA document, this will most likely be the software that is generating the response, though this will not always the be case.

7. **SHALL** contain at least one [1..*] **author** (CONF:3315-34).

    a. Such authors **SHALL** contain exactly one [1..1] **US Realm Date and Time (DTM.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4) (CONF:3315-35).

        i. This time **SHALL NOT** contain [0..0] **@nullFlavor** (CONF:3315-76).

    b. Such authors **SHALL** contain exactly one [1..1] **assignedAuthor** (CONF:3315-77).

1.1.3.3 informationRecipient

If the eICR CDA document was not processed the informationRecipient **SHOULD** be the system administrator, otherwise the informationRecipient **SHOULD** be the provider.

8. **SHALL** contain at least one [1..*] **informationRecipient** (CONF:3315-83).

1.1.3.4 componentOf

For the Reportability Response CDA document, the provider in charge of care and the facility in which care was provided during the encounter in which the eICR CDA document was triggered are contained within this element, along with that visit/encounter ID.

9. **SHALL** contain exactly one [1..1] **componentOf** (CONF:3315-1).

    a. This componentOf **SHALL** contain exactly one [1..1] **encompassingEncounter** (CONF:3315-2).

        i. This encompassingEncounter **SHALL** contain at least one [1..*] **id** (CONF:3315-54).
            Note: eICR Encompassing Encounter ID

        ii. This encompassingEncounter **SHALL** contain exactly one [1..1] **code**, which **SHOULD** be selected from ValueSet **ActEncounterCode** urn:oid:2.16.840.1.113883.1.11.13955 (CONF:3315-55).
            Note: PatientEncounter.typeCode

        iii. This encompassingEncounter **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:3315-3).

            1. This effectiveTime **SHALL NOT** contain [0..0] **@nullFlavor** (CONF:3315-38).

            2. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:3315-39).
                Note: PatientEncounter.fromDateTime

            3. This effectiveTime **SHALL** contain exactly one [1..1] **high** (CONF:3315-40).
                Note: PatientEncounter.thruDateTime . This value is associated with the patient's departure (e.g. discharge)

        iv. This encompassingEncounter **SHALL** contain exactly one [1..1] **responsibleParty** (CONF:3315-4).

            1. This responsibleParty **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:3315-5).
                Note: ResponsibleProvider

                a. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:3315-7).
                    Note: ResponsibleProvider.identifier. If available, the NPI number *SHALL* be provided.

                    i. Such ids **SHALL** contain exactly one [1..1] **@root** (CONF:3315-41).

                    ii. Such ids **MAY** contain zero or one [0..1] **@extension** (CONF:3315-42).

                b. This assignedEntity **SHALL** contain at least one [1..*] **US Realm Address (AD.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:3315-45).

                c. This assignedEntity **SHALL** contain at least one [1..*] **telecom** (CONF:3315-46).
                    Note: ResponsibleProvider.telecomAddress (phone, fax, email)

                d. This assignedEntity **SHALL** contain exactly one [1..1] **assignedPerson** (CONF:3315-6).

                    i. This assignedPerson **SHALL** contain exactly one [1..1] **US Realm Person Name (PN.US.FIELDED)** (identifier:

urn:oid:2.16.840.1.113883.10.20.22.5.1.1)
(CONF:3315-37).
Note: ResponsibleProvider.name

 e. This assignedEntity **SHALL** contain exactly one [1..1]
representedOrganization (CONF:3315-8).
Note: ResponsibleProviderFacility

  i. This representedOrganization **SHALL** contain exactly
one [1..1] **name** (CONF:3315-43).
Note: ProviderFacility.name

  ii. This representedOrganization **SHALL** contain exactly
one [1..1] **US Realm Address (AD.US.FIELDED)**
(identifier:
urn:oid:2.16.840.1.113883.10.20.22.5.2)
(CONF:3315-44).
Note: ProviderFacility.postalAddress

 v. This encompassingEncounter **SHALL** contain exactly one [1..1] **location**
(CONF:3315-9).

  1. This location **SHALL** contain exactly one [1..1] **healthCareFacility**
(CONF:3315-10).

   a. This healthCareFacility **SHALL** contain exactly one [1..1] **id**
(CONF:3315-11).
Note: CareDeliveryFacility.identifier

    i. This id **SHALL** contain exactly one [1..1] **@root**
(CONF:3315-47).

    ii. This id **MAY** contain zero or one [0..1] **@extension**
(CONF:3315-48).

Please note: the binding to the ServiceDeliveryLocationRoleType value set is SHOULD, so, for
concepts that aren't represented in this value set, it is possible to use another code from a
recognized code system.

To represent "Correctional Facility" use SNOMED CT code 257656006: Correctional Facility.

   b. This healthCareFacility **SHALL** contain exactly one [1..1] **code**,
which **SHOULD** be selected from ValueSet
ServiceDeliveryLocationRoleType
urn:oid:2.16.840.1.113883.1.11.17660 (CONF:3315-53).
Note: CareFacility.typeCode

   c. This healthCareFacility **SHALL** contain exactly one [1..1]
location (CONF:3315-12).

    i. This location **SHALL** contain exactly one [1..1] **US
Realm Address (AD.US.FIELDED)** (identifier:
urn:oid:2.16.840.1.113883.10.20.22.5.2)
(CONF:3315-49).
Note: CareDeliveryFacility.postalAddress

   d. This healthCareFacility **SHALL** contain exactly one [1..1]
serviceProviderOrganization (CONF:3315-13).

   i. This serviceProviderOrganization **SHALL** contain exactly one [1..1] **name** (CONF:3315-50).
Note: CareDeliveryOrganization.name

   ii. This serviceProviderOrganization **SHALL** contain at least one [1..*] **telecom** (CONF:3315-51).
Note: CareDeliveryOrganization.telecomAddress

   iii. This serviceProviderOrganization **SHALL** contain exactly one [1..1] **US Realm Address (AD.US.FIELDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:3315-52).

1.1.3.5 component

10. **SHALL** contain exactly one [1..1] **component** (CONF:3315-14).

  a. This component **SHALL** contain exactly one [1..1] **structuredBody** (CONF:3315-141).

The Reportability Response Subject Section **SHALL** be present if the eICR CDA document was processed (eICR Processing Status/code="TEMP_CODE_PROCESSED" or "TEMP_CODE_PROCESSED_WARNING") and **SHALL NOT** be present if the eICR CDA document was not processed (eICR ProcessingStatus/code="TEMP_CODE_NOT_PROCESSED_ERROR").

   i. This structuredBody **SHOULD** contain zero or one [0..1] **component** (CONF:3315-142) such that it

    1. **SHALL** contain exactly one [1..1] **Reportability Response Subject Section** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.1:2017-04-01) (CONF:3315-144).

   ii. This structuredBody **SHALL** contain exactly one [1..1] **component** (CONF:3315-629) such that it

    1. **SHALL** contain exactly one [1..1] **Electronic Initial Case Report Section** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.3:2017-04-01) (CONF:3315-630).

The Reportability Response Summary Section **SHALL** be present if the eICR CDA document was processed (eICR Processing Status/code="TEMP_CODE_PROCESSED" or "TEMP_CODE_PROCESSED_WARNING") and **SHALL NOT** be present if the eICR CDA document was not processed (eICR ProcessingStatus/code="TEMP_CODE_NOT_PROCESSED_ERROR").

   iii. This structuredBody **SHOULD** contain zero or one [0..1] **component** (CONF:3315-631) such that it

    1. **SHALL** contain exactly one [1..1] **Reportability Response Summary Section** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.2:2017-04-01) (CONF:3315-632).

11. The Reportability Response Subject Section **SHALL** be present if the eICR CDA document was processed (eICR Processing Status/code="TEMP_CODE_PROCESSED" or "TEMP_CODE_PROCESSED_WARNING") and **SHALL NOT** be present if the eICR CDA document was not processed (eICR ProcessingStatus/code="TEMP_CODE_NOT_PROCESSED_ERROR") ([CONF:3315-635](#)).

12. The Reportability Response Summary Section **SHALL** be present if the eICR CDA document was processed (eICR Processing Status/code="TEMP_CODE_PROCESSED" or "TEMP_CODE_PROCESSED_WARNING") and **SHALL NOT** be present if the eICR CDA document was not processed (eICR ProcessingStatus/code="TEMP_CODE_NOT_PROCESSED_ERROR") ([CONF:3315-636](#)).

Table 24: ServiceDeliveryLocationRoleType

Value Set: ServiceDeliveryLocationRoleType urn:oid:2.16.840.1.113883.1.11.17660			
Any subtype of ServiceDeliveryLocationRoleType			
Code	**Code System**	**Code System OID**	**Print Name**
DX	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	Diagnostics or therapeutics unit
CVDX	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	Cardiovascular diagnostics or therapeutics unit
CATH	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	Cardiac catheterization lab
ECHO	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	Echocardiography lab
GIDX	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	Gastroenterology diagnostics or therapeutics lab
ENDOS	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	Endoscopy lab
RADDX	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	adiology diagnostics or therapeutics unit
RADO	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	Radiation oncology unit
RNEU	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	Neuroradiology unit
HOSP	HL7RoleCode	urn:oid:2.16.840.1.113883.5.111	Hospital
...			

Table 25: ActEncounterCode

Code	Code System	Code System OID	Print Name
Value Set: ActEncounterCode urn:oid:2.16.840.1.113883.1.11.13955 Domain provides codes that qualify the ActEncounterClass Value Set Source: **http://www.hl7.org**			
AMB	HL7ActCode	urn:oid:2.16.840.1.113883.5.4	ambulatory
FLD	HL7ActCode	urn:oid:2.16.840.1.113883.5.4	field
HH	HL7ActCode	urn:oid:2.16.840.1.113883.5.4	home health
EMER	HL7ActCode	urn:oid:2.16.840.1.113883.5.4	emergency
IMP	HL7ActCode	urn:oid:2.16.840.1.113883.5.4	inpatient encounter
ACUTE	HL7ActCode	urn:oid:2.16.840.1.113883.5.4	inpatient acute
NONAC	HL7ActCode	urn:oid:2.16.840.1.113883.5.4	inpatient non-acute
PRENC	HL7ActCode	urn:oid:2.16.840.1.113883.5.4	pre-admission
SS	HL7ActCode	urn:oid:2.16.840.1.113883.5.4	short stay
VR	HL7ActCode	urn:oid:2.16.840.1.113883.5.4	Virtual

Figure 17: Reportability Response Document (RR)

```
<ClinicalDocument>
    <realmCode code="US" />
    <typeId extension="POCD_HD000040" root="2.16.840.1.113883.1.3" />
    <!-- [C-CDA R2.1] US Realm Header (V3) -->
    <templateId root="2.16.840.1.113883.10.20.22.1.1" extension="2015-08-01" />
    <!-- [RR R1S1] Initial Public Health Case Report Reportability Response Document (RR) -
->
    <templateId root="2.16.840.1.113883.10.20.15.2" extension="2017-04-01" />
    <!-- Globally unique document ID (extension) is scoped by vendor/software -->
    <id root="18218889-5d7d-47d4-b329-31bb1c28d3b3" />
    <!-- Document Code -->
    <code code="55751-2" codeSystem="2.16.840.1.113883.6.1" displayName="Public Health Case
Report" />
    <title>Initial Public Health Case Report Reportability Response</title>
    <effectiveTime value="20161212094421-0700" />
    <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25" displayName="Normal"
/>
    <languageCode code="en-US" />
    ...
</ClinicalDocument>
```

2 SECTION-LEVEL TEMPLATES

2.1 *Electronic Initial Case Report Section*

```
[section: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.3:2017-04-01
(open)]
```

Draft as part of Reportability Response

Table 26: Electronic Initial Case Report Section Contexts

Contained By:	Contains:
Reportability Response Document (RR) (required)	eICR Processing Status Inactive RCTC Code Manually Initiated eICR Outdated RCTC Version Received eICR Information

This section contains information about the eICR CDA document to which this document is a response. The date/time of receipt and an external document reference containing the ID of the eICR CDA document are represented in the Received eICR Information template and the processing status of the eICR CDA document is contained in the eICR Processing Status template. If the eICR CDA document was manually initiated by a healthcare provider, this is indicated by the presence of the Manually Initiated eICR template. If any of the trigger codes used to generate the eICR are from an outdated version of the RCTC or the codes are marked as inactive in the latest version of the RCTC, these are flagged.

This section is always present in the Reportability Response CDA document.

This section contains a text element that displays the eICR Identifier, and when the eICR CDA document was not processed it contains the eICR processing error reason(s).

The narrative in this section is displayed first in the Reportabiltiy Response CDA document and consists of a text element that displays the eICR Identifier, and when the eICR CDA document was not processed it contains the eICR processing error reason(s).

Table 27: Electronic Initial Case Report Section Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.3:2017-04-01)					
templateId	1..1	SHALL		3315-121	
@root	1..1	SHALL		3315-127	2.16.840.1.113883.10.20.15.2.2.3
@extension	1..1	SHALL		3315-128	2017-04-01
Code	1..1	SHALL		3315-122	
@code	1..1	SHALL		3315-129	TEMP_CODE_EICR_SECTION
@codeSystem	1..1	SHALL		3315-130	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
Text	1..1	SHALL		3315-637	
Table	1..1	SHALL		3315-639	
Tbody	1..*	SHALL		3315-640	
Tr	1..1	SHALL		3315-641	
Td	1..1	SHALL		3315-643	eICR Identifier
Td	1..1	SHALL		3315-642	
Table	0..1	MAY		3315-654	
Entry	1..1	SHALL		3315-126	
Act	1..1	SHALL		3315-203	Received eICR Information (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.9:2017-04-01)
Entry	1..1	SHALL		3315-466	
Act	1..1	SHALL		3315-467	eICR Processing Status (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.29:2017-04-01)
Entry	0..1	MAY		3315-477	
Act	1..1	SHALL		3315-580	Manually Initiated eICR (identifier: urn:hl7ii:2.16.840.1.113883.10.

					20.15.2.3.22:2017-04-01
Entry		0..1	MAY	3315-488	
Observation		1..1	SHALL	3315-489	Outdated RCTC Version (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.23:2017-04-01
Entry		0..*	MAY	3315-511	
Observation		1..1	SHALL	3315-512	Inactive RCTC Code (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.25:2017-04-01

1. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-121) such that it
    a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.2.3" (CONF:3315-127).
    b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-128).
2. **SHALL** contain exactly one [1..1] **code** (CONF:3315-122).
    a. This code **SHALL** contain exactly one [1..1] **@code**="TEMP_CODE_EICR_SECTION" Electronic Initial Case Report Section (CONF:3315-129).
    b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3315-130).

The text element **SHALL** contain the id of the received eICR CDA document and, if the eICR document was not processed, it **SHALL** contain the eICR Processing Error Reason.

3. **SHALL** contain exactly one [1..1] **text** (CONF:3315-637).
    a. This text **SHALL** contain exactly one [1..1] **table** (CONF:3315-639) such that it
        i. This table **SHALL** contain at least one [1..*] **tbody** (CONF:3315-640).
            1. Such tbodies **SHALL** contain exactly one [1..1] **tr** (CONF:3315-641).
                a. This tr **SHALL** contain exactly one [1..1] **td**="eICR Identifier" (CONF:3315-643).
                b. This tr **SHALL** contain exactly one [1..1] **td** (CONF:3315-642) such that it
                    i. This tr **SHALL** contain exactly one 1..1] td (CONF:3315-642) such that the value contained in <td> **SHALL** equal the value contained in the id/@root element in the eICR External Document Reference template (CONF:3315-644).

If the eICR document was not processed, this table **SHALL** be present and **SHALL** contain the eICR error processing reason(s).

    b. This text **MAY** contain zero or one [0..1] **table** (CONF:3315-654) such that it
        i. **SHALL** contain at least one [1..*] **tbody** (CONF:3315-655).
            1. Such tbodies **SHALL** contain exactly one [1..1] **tr** (CONF:3315-656).

a. This tr **SHALL** contain exactly one [1..1] **td** (CONF:3315-657).
   Note: Error Reason

4. **SHALL** contain exactly one [1..1] **entry** (CONF:3315-126) such that it
   a. **SHALL** contain exactly one [1..1] **Received eICR Information** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.9:2017-04-01) (CONF:3315-203).

5. **SHALL** contain exactly one [1..1] **entry** (CONF:3315-466) such that it
   a. **SHALL** contain exactly one [1..1] **eICR Processing Status** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.29:2017-04-01) (CONF:3315-467).

6. **MAY** contain zero or one [0..1] **entry** (CONF:3315-477) such that it
   a. **SHALL** contain exactly one [1..1] **Manually Initiated eICR** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.22:2017-04-01) (CONF:3315-580).

7. **MAY** contain zero or one [0..1] **entry** (CONF:3315-488) such that it
   a. **SHALL** contain exactly one [1..1] **Outdated RCTC Version** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.23:2017-04-01) (CONF:3315-489).

8. **MAY** contain zero or more [0..*] **entry** (CONF:3315-511) such that it
   a. **SHALL** contain exactly one [1..1] **Inactive RCTC Code** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.25:2017-04-01) (CONF:3315-512).

Figure 18: Electronic Initial Case Report Section Example

```
<section>
    <!-- [RR R1S1] Electronic Initial Case Report Section -->
    <templateId root="2.16.840.1.113883.10.20.15.2.2.3" extension="2017-04-01" />
    <code code="TEMP_CODE_EICR_SECTION"
        codeSystem="2.16.840.1.113883.6.1"
        codeSystemName="LOINC"
        displayName="Electronic Initial Case Report Section" />
    <text>
        <!-- eICR Information -->
        <table>
            <col width="40%" />
            <col width="60%" />
            <tbody>
                <tr>
                    <td>eICR Identifier</td>
                    <td>ca316e79-aaf2-4e8c-aa5f-848093bb8bb1</td>
                </tr>
            </tbody>
        </table>
    </text>
    <entry>
        <act classCode="ACT" moodCode="INT">
            <!-- [RR R1S1] Received eICR Information -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.9" extension="2017-04-01" />
            ...
        </act>
    </entry>
    <!-- eICR Processing Status -->
    <entry>
        <act classCode="ACT" moodCode="EVN">
            <!-- [RR R1S1] eICR Processing Status -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.29" extension="2017-04-01" />
            ...
        </act>
    </entry>
    <!-- Manually Initiated eICR -->
    <entry>
        <act classCode="ACT" moodCode="EVN">
            <!-- [RR R1S1] Manually Initiated eICR -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.22" extension="2017-04-01" />
            ...
        </act>
    </entry>
    <!-- Outdated RCTC Version -->
    <entry>
        <observation classCode="OBS" moodCode="EVN">
            <!-- [RR R1S1] Outdated RCTC Version -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.23" extension="2017-04-01" />
            ...
        </observation>
    </entry>
    <!-- Inactive RCTC Code -->
    <entry>
        <observation classCode="OBS" moodCode="EVN">
            <!-- [RR R1S1] Inactive RCTC Code -->
```

```
            <templateId root="2.16.840.1.113883.10.20.15.2.3.25" extension="2017-04-01" />
            ...
        </observation>
    </entry>
</section>
```

Figure 19: Electronic Initial Case Report Section Narrative Text Example

```
<text>
    <!-- eICR Information -->
    <content styleCode="Bold">eICR Information:</content>
    <table>
        <tbody>
            <tr>
                <td>eICR Identifier</td>
                <td>ca316e79-aaf2-4e8c-aa5f-848093bb8bb1</td>
            </tr>
        </tbody>
    </table>
</text>
```

2.2 Reportability Response Coded Information Section

```
[section: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.4:2017-04-01
(open)]

Draft as part of Reportability Response
```

Table 28: Reportability Response Coded Information Section Contexts

Contained By:	Contains:
Reportability Response Summary Section (required)	Possible Reportable Condition Observation

This section contains the coded information for the Reportability Response CDA document. This includes possible reportable conditions, the determination of reportability for such conditions, what agencies have been sent an eICR CDA document, which primary Public Health Agency is responsible for follow-up on each reportable condition, the reporting timeframe, and any additional reporting action(s).

It also contains pointers to text descriptions of links (the text is in the narrative block of the Reportability Response Summary Section) and the links themselves, to external references for supplemental information requests, public health contact information for the primary responsible agency, and additional information of relevance to the possible reportable condition.

This section does not specify a title or text element as all narrative is contained in the text element (section narrative block) of the containing Reportability Response Summary Section.

Table 29: Reportability Response Coded Information Section Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.4:2017-04-01)					
templateId	1..1	SHALL		3315-131	
@root	1..1	SHALL		3315-137	2.16.840.1.113883.10.20.15.2.2.4
@extension	1..1	SHALL		3315-138	2017-04-01
code	1..1	SHALL		3315-132	
@code	1..1	SHALL		3315-139	TEMP_CODE_CODED_INFO_SECTION
@codeSystem	1..1	SHALL		3315-140	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
entry	1..*	SHALL		3315-235	
observation	1..1	SHALL		3315-579	Possible Reportable Condition Observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.12:2017-04-01)

1. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-131) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.2.4" (CONF:3315-137).
   b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-138).
2. **SHALL** contain exactly one [1..1] **code** (CONF:3315-132).
   a. This code **SHALL** contain exactly one [1..1] **@code**="TEMP_CODE_CODED_INFO_SECTION" Reportability Response Coded Information (CONF:3315-139).
   b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3315-140).
3. **SHALL** contain at least one [1..*] **entry** (CONF:3315-235) such that it
   a. **SHALL** contain exactly one [1..1] **Possible Reportable Condition Observation** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.12:2017-04-01) (CONF:3315-579).

Figure 20: Reportability Response Coded Information Section Example

```
<section>
    <!-- [RR R1S1] Reportability Response Coded Information Section -->
    <templateId root="2.16.840.1.113883.10.20.15.2.2.4" extension="2017-04-01" />
    <code code="TEMP_CODE_CODED_INFO_SECTION"
        codeSystem="2.16.840.1.113883.6.1"
        codeSystemName="LOINC"
        displayName="Reportability Response Coded Information" />
    <!-- Possible Reportable Condition Observation: Zika -->
    <entry>
        <observation classCode="OBS" moodCode="EVN">
            <!-- [RR R1S1] Possible Reportable Condition Observation -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.12" extension="2017-04-01" />
            ...
        </observation>
    </entry>
</section>
```

2.3   Reportability Response Subject Section

```
[section: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.1:2017-04-01
(open)]

Draft as part of Reportability Response
```

Table 30: Reportability Response Subject Section Contexts

Contained By:	Contains:
Reportability Response Document (RR) (optional)	Reportability Response Subject

This section contains the subject (short description) of the Reportability Response CDA document. This information can be used in a work queue or an email subject and gives a concise description of the reportable condition and any actions that have been taken by the sending public health agency.

This section is present in the Reportability Response CDA document if the eICR CDA document was processed and is not present if the eICR CDA document was not processed.

The narrative in this section is displayed first in the Reportability Response CDA document and consists of paragraphs containing the "Subject:" heading and the subject text.

XPath	Card.	Verb	Data Type	CONF #	Value
section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.1:2017-04-01)					
templateId	1..1	SHALL		[3315-85](#)	
@root	1..1	SHALL		[3315-91](#)	2.16.840.1.113883.10.20.15.2.2.1
@extension	1..1	SHALL		[3315-92](#)	2017-04-01
code	1..1	SHALL		[3315-86](#)	
@code	1..1	SHALL		[3315-93](#)	TEMP_CODE_SUBJECT_SECTION
@codeSystem	1..1	SHALL		[3315-94](#)	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
text	1..1	SHALL		[3315-95](#)	
paragraph	1..1	SHALL		[3315-100](#)	
content	1..1	SHALL		[3315-101](#)	Subject:
@styleCode	1..1	SHALL		[3315-650](#)	Bold
paragraph	1..1	SHALL		[3315-648](#)	
content	1..1	SHALL		[3315-649](#)	
@ID	1..1	SHALL		[3315-651](#)	
content	1..1	SHALL		[3315-652](#)	Reportable Condition Notification:
@styleCode	1..1	SHALL		[3315-653](#)	Italics
entry	1..1	SHALL		[3315-84](#)	
act	1..1	SHALL		[3315-161](#)	[Reportability Response Subject (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.7:2017-04-01)](#)

1. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-85) such that it
    a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.2.1" (CONF:3315-91).
    b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-92).

2. **SHALL** contain exactly one [1..1] **code** (CONF:3315-86).
   a. This code **SHALL** contain exactly one [1..1] **@code**="TEMP_CODE_SUBJECT_SECTION" Reportability Response Subject (CONF:3315-93).
   b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3315-94).

The following text SHALL be rendered first in the Reportability Response CDA document narrative, much like the subject of an email.

3. **SHALL** contain exactly one [1..1] **text** (CONF:3315-95).
   a. This text **SHALL** contain exactly one [1..1] **paragraph** (CONF:3315-100) such that it
      i. **SHALL** contain exactly one [1..1] **content**="Subject:" (CONF:3315-101).
         1. This content **SHALL** contain exactly one [1..1] **@styleCode**="Bold" (CONF:3315-650).

The text in this paragraph is pointed to by text/reference/@value in the Reportability Response Subject template.

   b. This text **SHALL** contain exactly one [1..1] **paragraph** (CONF:3315-648) such that it
      Note: Subject of the Reportability Response
      i. **SHALL** contain exactly one [1..1] **content** (CONF:3315-649).
         1. This content **SHALL** contain exactly one [1..1] **@ID** (CONF:3315-651).
         2. This content **SHALL** contain exactly one [1..1] **content**="Reportable Condition Notification:" (CONF:3315-652).
            a. This content **SHALL** contain exactly one [1..1] **@styleCode**="Italics" (CONF:3315-653).

4. **SHALL** contain exactly one [1..1] **entry** (CONF:3315-84) such that it
   a. **SHALL** contain exactly one [1..1] **Reportability Response Subject** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.7:2017-04-01) (CONF:3315-161).

Figure 21: Reportability Response Subject Section Example

```
<section>
    <!-- [RR R1S1] Reportability Response Subject Section -->
    <templateId root="2.16.840.1.113883.10.20.15.2.2.1" extension="2017-04-01" />
    <code code="TEMP_CODE_SUBJECT_SECTION"
        codeSystem="2.16.840.1.113883.6.1"
        codeSystemName="LOINC"
        displayName="Reportability Response Subject" />
    <text>
        <paragraph><content styleCode="Bold">Subject:</content></paragraph>
        <!-- paragraph/content/@ID contains the id of the template
            that references it, prefixed with "ref_" -->
        <paragraph>
            <content ID="ref_c62d8411-27a3-4d22-9ddb-a4998faea87a">
                <content styleCode="Italics">
                    Reportable condition notification:
                </content>
                An initial report for Zika has been sent to the Utah Department of Health.
            </content>
        </paragraph>
    </text>
    <!-- Reportability Response Subject -->
    <entry typeCode="DRIV">
        <act classCode="ACT" moodCode="INT">
            <!-- [C-CDA R2.1] Instruction (V2) -->
            <templateId root="2.16.840.1.113883.10.20.22.4.20" extension="2014-06-09" />
            <!-- [RR R1S1] Reportability Response Subject -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.7" extension="2017-04-01" />
            ...
        </act>
    </entry>
</section>
```

Figure 22: Reportability Response Subject Section Narrative Text Example

```
<text>
    <paragraph>
        <content styleCode="Bold">Subject:</content>
    </paragraph>
    <!-- paragraph/content/@ID contains the id of the template that references it,
        prefixed with "ref_" -->
    <paragraph>
        <content ID="ref_c62d8411-27a3-4d22-9ddb-a4998faea87a">
            <content styleCode="Italics">Reportable condition notification:</content>
            An initial report for Zika has been sent to the Health Authority West.
        </content>
    </paragraph>
</text>
```

2.4 Reportability Response Summary Section

```
[section: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.2:2017-04-01
(open)]
```

Draft as part of Reportability Response

Table 32: Reportability Response Summary Section Contexts

Contained By:	Contains:
Reportability Response Document (RR) (optional)	Reportability Response Coded Information Section Reportability Response Priority Reportability Response Summary

This section contains the Reportability Response Summary template and the Reportability Response Priority template. This section also contains the nested Reportability Response Coded Information Section.

This section is present in the Reportabiltiy Response CDA document if the eICR CDA document was processed and is not present if the eICR CDA document was not processed.

All the required narrative for the nested section is stored in the text element (section narrative block) of this top-level section. Constraints placed on the text element and its children ensure that the visualization of the narrative is produced consistently.

The narrative in this section is displayed last in the Reportability Response CDA document and consists of the following elements in the following order:

1. Paragraphs containing the "Reportability Response Summary:" heading and the summary text
2. A table containing external resource links from the following categories (code specified in External Resources/code), in the order specified below:
   i.   Outbreak- or Cluster-related
   ii. Additional reporting needs
   iii. Additional detection and/or laboratory testing needs
   iv. Treatment and/or prevention
   v.   Jurisdiction contact information
3. A table containing external resource links from the category (code specified in External Resources/code):
   i.   Additional resources

Table 33: Reportability Response Summary Section Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.2:2017-04-01)					
templateId	1..1	SHALL		3315-103	
@root	1..1	SHALL		3315-109	2.16.840.1.113883.10.20.15.2.2.2
@extension	1..1	SHALL		3315-110	2017-04-01
code	1..1	SHALL		3315-104	
@code	1..1	SHALL		3315-111	55112-7
@codeSystem	1..1	SHALL		3315-112	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
text	1..1	SHALL		3315-105	
paragraph	1..1	SHALL		3315-106	
content	1..1	SHALL		3315-107	Summary:
@styleCode	1..1	SHALL		3315-116	Bold
paragraph	1..1	SHALL		3315-335	
content	1..1	SHALL		3315-336	
@ID	1..1	SHALL		3315-337	
table	1..1	SHALL		3315-367	
tbody	1..*	SHALL		3315-369	
@ID	1..1	SHALL		3315-375	
tr	1..*	SHALL		3315-372	
td	1..1	SHALL		3315-373	
content	1..1	SHALL		3315-377	
td	1..1	SHALL		3315-374	
linkHtml	1..1	SHALL		3315-378	

Table	1..1	SHALL		[3315-370](#)	
caption	1..1	SHALL		[3315-371](#)	Additional References
tbody	1..*	SHALL		[3315-379](#)	
@ID	1..1	SHALL		[3315-383](#)	
Tr	1..1	SHALL		[3315-380](#)	
td	1..1	SHALL		[3315-381](#)	
content	1..1	SHALL		[3315-385](#)	
td	1..1	SHALL		[3315-382](#)	
linkHtml	1..1	SHALL		[3315-386](#)	
Entry	1..1	SHALL		[3315-108](#)	
Act	1..1	SHALL		[3315-176](#)	[Reportability Response Summary (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.8:2017-04-01](#)
Entry	1..1	SHALL		[3315-613](#)	
observation	1..1	SHALL		[3315-614](#)	[Reportability Response Priority (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.30:2017-04-01](#)
component	1..1	SHALL		[3315-118](#)	
section	1..1	SHALL		[3315-120](#)	[Reportability Response Coded Information Section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.4:2017-04-01](#)

1. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-103) such that it
    a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.2.2" (CONF:3315-109).
    b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-110).
2. **SHALL** contain exactly one [1..1] **code** (CONF:3315-104).
    a. This code **SHALL** contain exactly one [1..1] **@code**="55112-7" Document Summary (CONF:3315-111).
    b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3315-112).

3. **SHALL** contain exactly one [1..1] **text** (CONF:3315-105).
    a. This text **SHALL** contain exactly one [1..1] **paragraph** (CONF:3315-106) such that it
        i. **SHALL** contain exactly one [1..1] **content**="Summary:" (CONF:3315-107).
            1. This content **SHALL** contain exactly one [1..1] **@styleCode**="Bold" (CONF:3315-116).
    b. This text **SHALL** contain exactly one [1..1] **paragraph** (CONF:3315-335) such that it
        i. **SHALL** contain exactly one [1..1] **content** (CONF:3315-336).
           Note: Summary text
            1. This content **SHALL** contain exactly one [1..1] **@ID** ([CONF:3315-337](#)).

There **SHALL** be one <table> containing all the links in all the External Resources templates in the document, other than those with a code (External Resource Type value set) of "Additional resources" (which will be contained in a separate table below). Each External Resources template corresponds to a single <tbody> and each External Reference template corresponds to a single <tr>.

Links will be ordered in the table based on the value in External Resources/code (from the External Resource Type value set) of the containing External Resources template. The order is as follows:

1. Outbreak- or Cluster-related

2. Additional reporting needs

3. Additional detection and/or laboratory testing needs

4. Treatment and/or prevention

5. Jurisdiction contact information

    c. This text **SHALL** contain exactly one [1..1] **table** (CONF:3315-367) such that it

There SHALL be one <tbody> corresponding to each External Resources template, the <tbody>/@ID contains the value of the id/@root of the External Reources template, prefixed with "ref_".

        i. **SHALL** contain at least one [1..*] **tbody** (CONF:3315-369).
            1. Such tbodies **SHALL** contain exactly one [1..1] **@ID** (CONF:3315-375).

There SHALL be one <tr> corresponding to each External Resources/External Reference template.

            2. Such tbodies **SHALL** contain at least one [1..*] **tr** (CONF:3315-372).

The value of the id/@root of the External Reference template, prefixed with "ref_" is contained in <td>/<content>/@ID. The External Reference template references this narrative.

                a. Such trs **SHALL** contain exactly one [1..1] **td** (CONF:3315-373) such that it
                    i. **SHALL** contain exactly one [1..1] **content** (CONF:3315-377).

The reference is contained in <td>/<linkHtml>.

                b. Such trs **SHALL** contain exactly one [1..1] **td** (CONF:3315-374) such that it

i. **SHALL** contain exactly one [1..1] `linkHtml` (CONF:3315-378).

There **SHALL** be one <table> containing all the links from all the External Resources templates with a code (External Resource Type value set) of "Additional Resources" in the document. Each External Resources template corresponds to a single <tbody> and each External Reference template corresponds to a single <tr>.

　　　　d. This text **SHALL** contain exactly one [1..1] `table` (CONF:3315-370) such that it
　　　　　　　i. **SHALL** contain exactly one [1..1] `caption`="Additional References" (CONF:3315-371).

There SHALL be one <tbody> corresponding to each External Resources template. The tbody/@ID contains the value of the id/@root of the External Resources, prefixed with "ref_".

　　　　　　　ii. **SHALL** contain at least one [1..*] `tbody` (CONF:3315-379).
　　　　　　　　　1. Such tbodies **SHALL** contain exactly one [1..1] `@ID` (CONF:3315-383).

There SHALL be one <tr> corresponding to each External Resources/External Reference template.

　　　　　　　　　2. Such tbodies **SHALL** contain exactly one [1..1] `tr` (CONF:3315-380).

The value of the id/@root of the External Reference template, prefixed with "ref_" is contained in <td>/<content>/@ID. The External Reference template references this narrative.

　　　　　　　　　　a. This tr **SHALL** contain exactly one [1..1] `td` (CONF:3315-381) such that it
　　　　　　　　　　　　i. **SHALL** contain exactly one [1..1] `content` (CONF:3315-385).

The reference is contained in <td>/<linkHtml>.

　　　　　　　　　　b. This tr **SHALL** contain exactly one [1..1] `td` (CONF:3315-382) such that it
　　　　　　　　　　　　i. **SHALL** contain exactly one [1..1] `linkHtml` (CONF:3315-386).

4. **SHALL** contain exactly one [1..1] `entry` (CONF:3315-108) such that it
　　a. **SHALL** contain exactly one [1..1] **Reportability Response Summary** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.8:2017-04-01) (CONF:3315-176).
5. **SHALL** contain exactly one [1..1] `entry` (CONF:3315-613) such that it
　　a. **SHALL** contain exactly one [1..1] **Reportability Response Priority** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.30:2017-04-01) (CONF:3315-614).
6. **SHALL** contain exactly one [1..1] `component` (CONF:3315-118) such that it
　　a. **SHALL** contain exactly one [1..1] **Reportability Response Coded Information Section** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.4:2017-04-01) (CONF:3315-120).

Figure 23: Reportability Response Summary Section Example

```
<section>
    <!-- [RR R1S1] Reportability Response Summary Section -->
    <templateId root="2.16.840.1.113883.10.20.15.2.2.2" extension="2017-04-01" />
    <code code="55112-7"
        codeSystem="2.16.840.1.113883.6.1"
        codeSystemName="LOINC"
        displayName="Document Summary" />
    <text>
        ...
    </text>
    <!-- Reportability Response Summary -->
    <entry typeCode="DRIV">
        <act classCode="ACT" moodCode="INT">
            <!-- [C-CDA R2.1] Instruction (V2) -->
            <templateId root="2.16.840.1.113883.10.20.22.4.20" extension="2014-06-09" />
            <!-- [RR R1S1] Reportability Response Summary -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.8" extension="2017-04-01" />
            ...
        </act>
    </entry>
    <!-- Reportability Response Priority -->
    <entry typeCode="DRIV">
        <observation classCode="OBS" moodCode="EVN">
            <!-- [RR R1S1] Reportability Response Priority -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.30" extension="2017-04-01" />
            ...
        </observation>
    </entry>
    <!--
        *********************************************************
        Reportability Response Coded Information Section
        *********************************************************
    -->
    <component>
        <section>
            <templateId root="2.16.840.1.113883.10.20.15.2.2.4" extension="2017-04-01" />
            ...
        </section>
    </component>
</section>
```

Figure 24: Reportability Response Summary Section Narrative Text Example

```
<text>
   <!-- The following paragraph must be Bold and is hard coded to "Summary:" -->
   <paragraph>
      <content styleCode="Bold">Summary:</content>
   </paragraph>
   <!-- paragraph/content/@ID contains the value of the id/@root of the Reportability
        Response Summary template, prefixed with "ref_".
        The Reportability Response Summary template references this narrative -->
   <paragraph>
      <content ID="ref_7a0ed3d3-16f3-4fa9-bac5-882f5c7d44b8">
          An initial case report was submitted electronically by your organization to
          determine if a patient has a public health reportable condition.
          The condition of Zika was identified and is a reportable condition in Michigan.
          The initial case report was forwarded to the Health Authority West.
      </content>
   </paragraph>
   <!-- External Resources -->
   <!-- There *SHALL* be one <table> containing all the links in all the External
        Resources templates in the document, other than those with a code
        (External Resource Type value set) of "Additional resources" (which will
        be contained in a separate table below).
        Each External Resources template corresponds to a single <tbody> and each
        External Reference template corresponds to a single <tr>.

        Links will be ordered in the table based on the value in External Resources/code
        (from the External Resource Type value set) of the containing External Resources
        template. The order is as follows:
          1. Outbreak- or Cluster-related
          2. Additional reporting needs
          3. Additional detection and/or laboratory testing needs
          4. Treatment and/or prevention
          5. Jurisdiction contact information
    -->
   <table>
      <!-- There SHALL be one <tbody> corresponding to each External Resources
           template, the <tbody>/@ID contains the value of the id/@root of the
           External Reources template, prefixed with "ref_". -->
      <tbody ID="ref_cb29494e-5c09-4dca-abf0-ff27b1781eb9">
         <!-- There SHALL be one <tr> corresponding to each
              External Resources/External Reference template. -->
         <tr>
            <!-- The value of the id/@root of the External Reference template,
                 prefixed with "ref_" is contained in <td>/[<]content>/@ID.
                 The External Reference template references this narrative. -->
            <td>
               <content ID="ref_e7382520-440b-497f-b39e-68fe7dbfcdf3">
                  Additional information for the required reporting of Zika must
                  be submitted to the Health Authority West immediately. This
                  additional information can be submitted here:
               </content>
            </td>
            <!-- The reference is contained in <td>/[<]linkHtml>. -->
            <td>
               <linkHtml href="http://health.aw.gov/epi/diseases/zika/Supp_data_form.pdf">
                        http://health.aw.gov/epi/diseases/zika/Supp_data_form.pdf
```

```
                </linkHtml>
            </td>
        </tr>
        <tr>...</tr>
        ...
    </tbody>
</table>
<br />
<br />
<!-- Additional References -->
<!-- There *SHALL* be one <table> containing all the links from all the
     External Resources templates with a code (External Resource Type value set) of
     "Additional Resources" in the document. Each External Resources template
     corresponds to a single <tbody> and each External Reference template corresponds
     to a single <tr>. -->
<table>
    <caption>Additional References:</caption>
    <!-- There SHALL be one <tbody> corresponding to each External Resources template
         with a Reportabiltiy Priority of "Information Only".
         The tbody/@ID contains the value of the id/@root of the External Resources
         template, prefixed with "ref_". -->
    <tbody ID="ref_bbfc37e5-45e2-4a2e-845b-50f890ff630e">
        <tr>
            <!-- The value of the id/@root of the External Reference template,
                 prefixed with "ref_" is contained in <td>/[<]content>/@ID.
                 The External Reference template references this narrative. -->
            <td>
                <content ID="ref_6b6250f8-cab2-47b4-bbc1-8fe93f71efcb">
                    Control and prevention information for providers
                </content>
            </td>
            <!-- The reference is contained in <td>/[<]linkHtml>. -->
            <td>
                <linkHtml href="http://health.aw.gov/epi/diseases/zika/plan.pdf">
                        http://health.aw.gov/epi/diseases/zika/plan.pdf
                </linkHtml>
            </td>
        </tr>
        <tr>...</tr>
        ...
    </tbody>
</table>
</text>
```

3   ENTRY-LEVEL TEMPLATES

3.1   Determination of Reportability

```
[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.19:2017-04-
01 (open)]
```

Draft as part of Reportability Response

Table 34: Determination of Reportability Contexts

Contained By:	Contains:
Reportability Information Organizer (required)	Determination of Reportability Reason Determination of Reportability Rule

This template represents the determination of reportability.

Table 35: Determination of Reportability Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.19:2017-04-01)					
@classCode	1..1	SHALL		3315-354	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3315-355	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-347	
@root	1..1	SHALL		3315-349	2.16.840.1.113883.10.20.15.2.3.19
@extension	1..1	SHALL		3315-350	2017-04-01
code	1..1	SHALL		3315-348	
@code	1..1	SHALL		3315-351	TEMP_CODE_DETERMINATION _OF_REPORTABILITY
@codeSystem	1..1	SHALL		3315-352	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
value	1..1	SHALL	CD	3315-353	urn:oid:2.16.840.1.113883.10.20.15.2.5.3 (Determination of Reportability)
entryRelationship	0..1	SHOULD		3315-533	
@typeCode	1..1	SHALL		3315-535	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		3315-536	Determination of Reportability Reason (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.26:2017-03-01
entryRelationship	0..1	SHOULD		3315-534	
@typeCode	1..1	SHALL		3315-537	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		3315-538	Determination of Reportability Rule (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.27:2017-04-01

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3315-354).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3315-355).

3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-347) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.19" (CONF:3315-349).
   b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-350).
4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-348).
   a. This code **SHALL** contain exactly one [1..1] **@code**="TEMP_CODE_DETERMINATION_OF_REPORTABILITY" Determination of reportability (CONF:3315-351).
   b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3315-352).
5. **SHALL** contain exactly one [1..1] **value** with @xsi:type="CD", where the code **SHALL** be selected from ValueSet **Determination of Reportability** urn:oid:2.16.840.1.113883.10.20.15.2.5.3 **STATIC** 2017-02-01 (CONF:3315-353).
6. **SHOULD** contain zero or one [0..1] **entryRelationship** (CONF:3315-533) such that it
   a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" Reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3315-535).
   b. **SHALL** contain exactly one [1..1] **Determination of Reportability Reason** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.26:2017-03-01) (CONF:3315-536).
7. **SHOULD** contain zero or one [0..1] **entryRelationship** (CONF:3315-534) such that it
   a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" Reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3315-537).
   b. **SHALL** contain exactly one [1..1] **Determination of Reportability Rule** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.27:2017-04-01) (CONF:3315-538).

Table 36: Determination of Reportability

Value Set: Determination of Reportability urn:oid:2.16.840.1.113883.10.20.15.2.5.3 This value set contains codes that specify whether a condition is reportable or not.			
Code	**Code System**	**Code System OID**	**Print Name**
TEMP_CODE_MAYBE	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.11422 2.4.5.274	Maybe reportable
TEMP_CODE_NOT_REPO RTABLE	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.11422 2.4.5.274	Not reportable
TEMP_CODE_REPORTAB LE	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.11422 2.4.5.274	Reportable
TEMP_CODE_NO_RULE_ MET	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.11422 2.4.5.274	No rule met

Figure 25: Determination of Reportability Example

```
<observation classCode="OBS" moodCode="EVN">
    <!-- [RR R1S1] Determination of Reportability -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.19" extension="2017-04-01" />
    <id root="e39d6ae2-8c6e-4638-9b33-412996586f41" />
    <code code="TEMP_CODE_DETERMINATION_OF_REPORTABILITY"
        codeSystem="2.16.840.1.113883.6.1"
        codeSystemName="LOINC"
        displayName="Determination of reportability" />
    <value xsi:type="CD" code="TEMP_CODE_REPORTABLE"
        displayName="Reportable"
        codeSystem="2.16.840.1.114222.4.5.274"
        codeSystemName="PHIN VS (CDC Local Coding System)" />
    <!-- Determination of Reportability Reason -->
    <entryRelationship typeCode="RSON">
        <observation classCode="OBS" moodCode="EVN">
            <!-- [RR R1S1] Determination of Reportability Reason -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.26" extension="2017-04-01" />
            ...
        </observation>
    </entryRelationship>
    <!-- Determination of Reportability Rule -->
    <entryRelationship typeCode="RSON">
        <observation classCode="OBS" moodCode="EVN">
            <!-- [RR R1S1] Determination of Reportability Rule -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.27" extension="2017-04-01" />
            ...
        </observation>
    </entryRelationship>
</observation>
```

3.2 *Determination of Reportability Reason*

```
[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.26:2017-04-
01 (open)]
```

```
Draft as part of Reportability Response
```

Table 37: Determination of Reportability Reason Contexts

Contained By:	Contains:
Determination of Reportability (optional)	

This template contains the reason for the determination of reportability.

Table 38: Determination of Reportability Reason Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.26:2017-03-01)					
@classCode	1..1	SHALL		[3315-522](#)	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		[3315-523](#)	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		[3315-514](#)	
@root	1..1	SHALL		[3315-517](#)	2.16.840.1.113883.10.20.15.2.3.26
@extension	1..1	SHALL		[3315-518](#)	2017-04-01
code	1..1	SHALL		[3315-515](#)	
@code	1..1	SHALL		[3315-519](#)	TEMP_CODE_DETERMINATION_REASON
@codeSystem	1..1	SHALL		[3315-520](#)	urn:oid:2.16.840.1.114222.4.5.274 (PHIN VS (CDC Local Coding System)) = 2.16.840.1.114222.4.5.274
value	1..1	SHALL		[3315-521](#)	

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3315-522).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3315-523).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-514) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.26" (CONF:3315-517).
   b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-518).
4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-515).
   a. This code **SHALL** contain exactly one [1..1] **@code**="TEMP_CODE_DETERMINATION_REASON" Reason (CONF:3315-519).
   b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.114222.4.5.274" (CodeSystem: PHIN VS (CDC Local Coding System) urn:oid:2.16.840.1.114222.4.5.274) (CONF:3315-520).
5. **SHALL** contain exactly one [1..1] **value** (CONF:3315-521).
   Note: Determination of reportability reason

Figure 26: Determination of Reportability Reason Example

```
<observation classCode="OBS" moodCode="EVN">
    <!-- [RR R1S1] Determination of Reportability -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.19" extension="2017-04-01" />
    <id root="e39d6ae2-8c6e-4638-9b33-412996586f41" />
    <code code="TEMP_CODE_DETERMINATION_OF_REPORTABILITY"
        codeSystem="2.16.840.1.113883.6.1"
        codeSystemName="LOINC"
        displayName="Determination of reportability" />
    <value xsi:type="CD" code="TEMP_CODE_REPORTABLE"
        displayName="Reportable"
        codeSystem="2.16.840.1.114222.4.5.274"
        codeSystemName="PHIN VS (CDC Local Coding System)" />
    <entryRelationship typeCode="RSON">
        <observation classCode="OBS" moodCode="EVN">
            <!-- [RR R1S1] Determination of Reportability Reason -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.26" extension="2017-04-01" />
            <id root="8709a342-56ad-425a-b7b1-76a16c2dd2d5" />
            <code code="TEMP_CODE_DETERMINATION_REASON"
                codeSystem="2.16.840.1.114222.4.5.274"
                codeSystemName="PHIN VS (CDC Local Coding System)"
                displayName="Determination of reportability reason" />
            <value xsi:type="CD" code="TEMP_CODE_MISSING_REQUIRED_DATA"
                displayName="Missing required eICR data"
                codeSystem="2.16.840.1.114222.4.5.274"
                codeSystemName="PHIN VS (CDC Local Coding System)" />
        </observation>
    </entryRelationship>
</observation>
```

3.3   Determination of Reportability Rule

```
[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.27:2017-04-
01 (open)]
```

```
Draft as part of Reportability Response
```

Table 39: Determination of Reportability Rule Contexts

Contained By:	Contains:
Determination of Reportability (optional)	

This template contains a rule that led to the determination of reportability.

Table 40: Determination of Reportability Rule Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.27:2017-04-01)					
@classCode	1..1	SHALL		3315-531	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3315-532	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-524	
@root	1..1	SHALL		3315-526	2.16.840.1.113883.10.20.15.2.3.27
@extension	1..1	SHALL		3315-527	2017-04-01
code	1..1	SHALL		3315-525	
@code	1..1	SHALL		3315-528	TEMP_CODE_DETERMINATION_RULE
@codeSystem	1..1	SHALL		3315-529	urn:oid:2.16.840.1.114222.4.5.274 (PHIN VS (CDC Local Coding System)) = 2.16.840.1.114222.4.5.274
value	1..1	SHALL		3315-530	

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3315-531).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3315-532).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-524) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.27" (CONF:3315-526).
   b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-527).
4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-525).
   a. This code **SHALL** contain exactly one [1..1] **@code**="TEMP_CODE_DETERMINATION_RULE" Determination of reportability rule (CONF:3315-528).
   b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.114222.4.5.274" (CodeSystem: PHIN VS (CDC Local Coding System) urn:oid:2.16.840.1.114222.4.5.274) (CONF:3315-529).
5. **SHALL** contain exactly one [1..1] **value** (CONF:3315-530).
   Note: Determination of reportability rule

Figure 27: Determination of Reportability Rule Example

```
<observation classCode="OBS" moodCode="EVN">
    <!-- [RR R1S1] Determination of Reportability Rule -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.27" extension="2017-04-01" />
    <id root="f2dfdffb-bccb-4ee4-9b6c-0ae82b15ada6" />
    <code code="TEMP_CODE_DETERMINATION_RULE"
        codeSystem="2.16.840.1.114222.4.5.274"
        codeSystemName="PHIN VS (CDC Local Coding System)"
        displayName="Determination of reportability reason" />
    <value xsi:type="ST">Rule used in reportability determination</value>
</observation>
```

3.4 eICR Processing Error Reason

```
[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.21:2017-04-
01 (open)]
```

```
Draft as part of Reportability Response
```

Table 41: eICR Processing Error Reason Contexts

Contained By:	Contains:
eICR Processing Status (optional)	

This template represents the error reason why the eICR CDA document was not processed. This template will only be present if the eICR CDA document was not processed.

Table 42: eICR Processing Error Reason Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.21:2017-04-01)					
@classCode	1..1	SHALL		3315-475	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3315-476	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-468	
@root	1..1	SHALL		3315-470	2.16.840.1.113883.10.20.15.2.3.21
@extension	1..1	SHALL		3315-471	2017-04-01
code	1..1	SHALL		3315-469	
@code	1..1	SHALL		3315-472	TEMP_CODE_EICR_PROCESSING_ERROR_REASON
@codeSystem	1..1	SHALL		3315-473	urn:oid:2.16.840.1.114222.4.5.274 (PHIN VS (CDC Local Coding System)) = 2.16.840.1.114222.4.5.274
value	1..1	SHALL		3315-474	urn:oid:2.16.840.1.113883.10.20.15.2.5.7 (eICR Processing Error Reason)

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3315-475).

2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3315-476).

3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-468) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.21" (CONF:3315-470).
   b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-471).

4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-469).
   a. This code **SHALL** contain exactly one [1..1] **@code**="TEMP_CODE_EICR_PROCESSING_ERROR_REASON" eICR processing error reason (CONF:3315-472).
   b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.114222.4.5.274" (CodeSystem: PHIN VS (CDC Local Coding System) urn:oid:2.16.840.1.114222.4.5.274) (CONF:3315-473).

5. **SHALL** contain exactly one [1..1] **value**, which **SHALL** be selected from ValueSet **eICR Processing Error Reason** urn:oid:2.16.840.1.113883.10.20.15.2.5.7 **DYNAMIC** (CONF:3315-474).

Table 43: eICR Processing Error Reason

Value Set: eICR Processing Error Reason urn:oid:2.16.840.1.113883.10.20.15.2.5.7 This value set contains codes that describe the reason for the processing error.			
Code	**Code System**	**Code System OID**	**Print Name**
TEMP_CODE_EICR_FATAL	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR was not processed with an error of: fatal problem with the eICR that was received
TEMP_CODE_EICR_SERVER	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR was not processed with an error of: an ongoing server problem
TEMP_CODE_SIGNIFICANT_CONTENT	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR was not processed with an error of: significant content or format issues

Figure 28: eICR Processing Error Reason Example

```
<observation classCode="OBS" moodCode="EVN">
    <!-- [RR R1S1] eICR Processing Error Reason -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.21" extension="2017-04-01" />
    <id root="e39d6ae2-8c6e-4638-9b33-412996586f42" />
    <code code="TEMP_CODE_EICR_PROCESSING_ERROR_REASON"
        codeSystem="2.16.840.1.114222.4.5.274"
        codeSystemName="PHIN VS (CDC Local Coding System)"
        displayName="eICR processing error reason" />
    <value xsi:type="CD" code="TEMP_CODE_EICR_FATAL"
        displayName="eICR was not processed with an error of: fatal problem with the eICR
that was received"
        codeSystem="2.16.840.1.114222.4.5.274"
        codeSystemName="PHIN VS (CDC Local Coding System)" />
</observation>
```

3.5   eICR Processing Status

```
[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.29:2017-04-01
(open)]
```

```
Draft as part of Reportability Response
```

Table 44: eICR Processing Status Contexts

Contained By:	**Contains:**
Electronic Initial Case Report Section (required)	eICR Processing Error Reason eICR Processing Warning Reason

This template indicates the eICR CDA document processing status. If the eICR CDA document was not processed, the reason will be contained in the eICR Processing Error Reason template

and if the eICR CDA document was processed with a warning, the reason will be contained in the eICR Processing Warning Reason template.

Table 45: eICR Processing Status Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.29:2017-04-01)					
@classCode	1..1	SHALL		3315-574	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		3315-575	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-568	
@root	1..1	SHALL		3315-570	2.16.840.1.113883.10.20.15.2.3.29
@extension	1..1	SHALL		3315-571	2017-04-01
code	1..1	SHALL		3315-569	urn:oid:2.16.840.1.113883.10.20.15.2.5.8 (eICR Processing Status)
entryRelationship	0..1	MAY		3315-598	
@typeCode	1..1	SHALL		3315-599	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		3315-600	eICR Processing Error Reason (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.21:2017-04-01
entryRelationship	0..*	MAY		3315-624	
@typeCode	1..1	SHALL		3315-628	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		3315-625	eICR Processing Warning Reason (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.31:2017-04-01

1. **SHALL** contain exactly one [1..1] **@classCode**="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3315-574).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3315-575).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-568) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.29" (CONF:3315-570).
   b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-571).

4. **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet **eICR Processing Status** urn:oid:2.16.840.1.113883.10.20.15.2.5.8 **STATIC** 2017-02-01 (CONF:3315-569).

5. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:3315-598) such that it
   a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" Reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3315-599).
   b. **SHALL** contain exactly one [1..1] **eICR Processing Error Reason** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.21:2017-04-01) (CONF:3315-600).

6. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:3315-624) such that it
   a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" Reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3315-628).
   b. **SHALL** contain exactly one [1..1] **eICR Processing Warning Reason** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.31:2017-04-01) (CONF:3315-625).

7. The eICR Processing Error Reason **SHALL** be present if the eICR CDA document was not processed and **SHALL NOT** be present if the eICR CDA document was processed (CONF:3315-633).

8. The eICR Processing Warning Reason **SHALL** be present if the eICR CDA document was processed with warnings and **SHALL NOT** be if the eICR was not processed or if the eICR CDA document was processed with no warnings (CONF:3315-634).

Table 46: eICR Processing Status

Value Set: eICR Processing Status urn:oid:2.16.840.1.113883.10.20.15.2.5.8				
This value set contains codes that describe the status of the eICR document in terms of processing by the public health decision support system.				
Code	**Code System**	**Code System OID**	**Print Name**
TEMP_CODE_PROCESSED_WARNING	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR was processed - with a warning
TEMP_CODE_PROCESSED	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR processed
TEMP_CODE_NOT_PROCESSED_ERROR	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR was not processed - error

Figure 29: eICR Processing Status (Error) Example

```
<act classCode="ACT" moodCode="EVN">
    <!-- [RR R1S1] eICR Processing Status -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.29" extension="2017-04-01" />
    <id root="39d966b9-8a3a-4024-93d8-138e97d5898a" />
    <code code="TEMP_CODE_NOT_PROCESSED_ERROR"
        displayName="eICR was not processed - error"
        codeSystem="2.16.840.1.114222.4.5.274"
        codeSystemName="PHIN VS (CDC Local Coding System)" />
    <!-- eICR Processing Error Reason-->
    <entryRelationship typeCode="RSON">
        <observation classCode="OBS" moodCode="EVN">
            <!-- [RR R1S1] eICR Processing Error Reason -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.21" extension="2017-04-01" />
            ...
        </observation>
    </entryRelationship>
</act>
```

Figure 30: eICR Processing Status (Warning) Example

```
<act classCode="ACT" moodCode="EVN">
    <!-- [RR R1S1] eICR Processing Status -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.29" extension="2017-04-01" />
    <id root="39d966b9-8a3a-4024-93d8-138e97d5898a" />
    <code code="TEMP_CODE_PROCESSED_WARNING"
        displayName="eICR was processed - with a warning"
        codeSystem="2.16.840.1.114222.4.5.274"
        codeSystemName="PHIN VS (CDC Local Coding System)" />
    <!-- eICR Processing Warning Reason-->
    <entryRelationship typeCode="RSON">
        <observation classCode="OBS" moodCode="EVN">
            <!-- [RR R1S1] eICR Processing Warning Reason -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.31" extension="2017-04-01" />
            ...
        </observation>
    </entryRelationship>
</act>
```

Figure 31: eICR Processing Status (Processed) Example

```
<act classCode="ACT" moodCode="EVN">
    <!-- [RR R1S1] eICR Processing Status -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.29" extension="2017-04-01" />
    <id root="39d966b9-8a3a-4024-93d8-138e97d5898a" />
    <code code="TEMP_CODE_PROCESSED"
        displayName="eICR processed"
        codeSystem="2.16.840.1.114222.4.5.274"
        codeSystemName="PHIN VS (CDC Local Coding System)" />
</act>
```

3.6 eICR Processing Warning Reason

```
[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.31:2017-04-
01 (open)]
```

```
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```

Table 47: eICR Processing Warning Reason Contexts

Contained By:	Contains:
eICR Processing Status (optional)	

This template represents the reason why the eICR was processed with a warning. This template will only be present if the eICR was processed with a warning.

Table 48: eICR Processing Warning Reason Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.31:2017-04-01)					
@classCode	1..1	SHALL		3315-622	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3315-623	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-615	
@root	1..1	SHALL		3315-617	2.16.840.1.113883.10.20.15.2.3.31
@extension	1..1	SHALL		3315-618	2017-04-01
code	1..1	SHALL		3315-616	
@code	1..1	SHALL		3315-619	TEMP_CODE_EICR_PROCESSING_WARNING_REASON
@codeSystem	1..1	SHALL		3315-620	urn:oid:2.16.840.1.114222.4.5.274 (PHIN VS (CDC Local Coding System)) = 2.16.840.1.114222.4.5.274
value	1..1	SHALL		3315-621	urn:oid:2.16.840.1.113883.10.20.15.2.5.10 (eICR Processing Warning Reason)

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3315-622).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3315-623).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-615) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.31" (CONF:3315-617).

        b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-618).

4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-616).
        a. This code **SHALL** contain exactly one [1..1] **@code**="TEMP_CODE_EICR_PROCESSING_WARNING_REASON" eICR processing warning reason (CONF:3315-619).
        b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.114222.4.5.274" (CodeSystem: PHIN VS (CDC Local Coding System) urn:oid:2.16.840.1.114222.4.5.274) (CONF:3315-620).

5. **SHALL** contain exactly one [1..1] **value**, which **SHALL** be selected from ValueSet **eICR Processing Warning Reason** urn:oid:2.16.840.1.113883.10.20.15.2.5.10 **DYNAMIC** (CONF:3315-621).

Table 49: eICR Processing Warning Reason

Value Set: eICR Processing Warning Reason urn:oid:2.16.840.1.113883.10.20.15.2.5.10			
This value set contains codes that describe the reason for the processing warning.			
Code	**Code System**	**Code System OID**	**Print Name**
TEMP_CODE_INVALID_ID	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR was processed with the warning of: invalid eICR identifier
TEMP_CODE_REQUIRED_DATA_MISSING	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR was processed with the warning of: required data not found
TEMP_CODE_CONTENT	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	eICR was processed with the warning of: content or format issues

Figure 32: eICR Processing Warning Reason Example

```
<observation classCode="OBS" moodCode="EVN">
    <!-- [RR R1S1] eICR Processing Warning Reason -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.31" extension="2017-04-01" />
    <id root="e39d6ae2-8c6e-4638-9b33-412996586f42" />
    <code code="TEMP_CODE_EICR_PROCESSING_WARNING_REASON"
        codeSystem="2.16.840.1.114222.4.5.274"
        codeSystemName="PHIN VS (CDC Local Coding System)"
        displayName="eICR processing warning reason" />
    <value xsi:type="CD" code="TEMP_CODE_INVALID_ID"
        displayName="eICR was processed with the warning of: invalid eICR identifier"
        codeSystem="2.16.840.1.114222.4.5.274"
        codeSystemName="PHIN VS (CDC Local Coding System)" />
</observation>
```

3.7 Expected RCTC Version

```
[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.24:2017-04-
01 (open)]
```

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Table 50: Expected RCTC Version Contexts

Contained By:	Contains:
Outdated RCTC Version (required)	

This template contains the expected RCTC version. This template will only be present if an outdated RCTC version has been used in the eICR CDA document.

Table 51: Expected RCTC Version Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.24:2017-04-01)					
@classCode	1..1	SHALL		3315-497	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3315-498	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-490	
@root	1..1	SHALL		3315-492	2.16.840.1.113883.10.20.15.2.3.24
@extension	1..1	SHALL		3315-493	2017-04-01
code	1..1	SHALL		3315-491	
@code	1..1	SHALL		3315-494	TEMP_CODE_EXPECTED_RCTC
@codeSystem	1..1	SHALL		3315-495	urn:oid:2.16.840.1.114222.4.5.274 (PHIN VS (CDC Local Coding System)) = 2.16.840.1.114222.4.5.274
value	1..1	SHALL	ST	3315-496	

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3315-497).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3315-498).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-490) such that it
    a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.24" (CONF:3315-492).
    b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-493).

4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-491).
    a. This code **SHALL** contain exactly one [1..1] **@code**="TEMP_CODE_EXPECTED_RCTC" Expected RCTC Version (CONF:3315-494).
    b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.114222.4.5.274" (CodeSystem: PHIN VS (CDC Local Coding System) urn:oid:2.16.840.1.114222.4.5.274) (CONF:3315-495).
5. **SHALL** contain exactly one [1..1] **value** with @xsi:type="ST" (CONF:3315-496).
    Note: Expected RCTC Version

Figure 33: Expected RCTC Version Example

```
<observation classCode="OBS" moodCode="EVN">
    <!-- [RR R1S1] Expected RCTC Version -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.24" extension="2017-04-01" />
    <id root="9d093f9f-a19f-42d3-b130-c0843ed7a72f" />
    <code code="TEMP_CODE_EXPECTED_RCTC"
        displayName="Expected RCTC Version"
        codeSystem="2.16.840.1.114222.4.5.274"
        codeSystemName="PHIN VS (CDC Local Coding System)" />
    <value xsi:type="ST">19/05/2015</value>
</observation>
```

3.8 External Document Reference

[externalDocument: identifier
urn:hl7ii:2.16.840.1.113883.10.20.22.4.115:2014-06-09 (open)]

Published as part of Consolidated CDA Templates for Clinical Notes (US Realm) DSTU R2

Where it is necessary to reference an external clinical document, the External Document Reference template can be used to reference this external document. However, if the containing document is replacing or appending to another document in the same set, that relationship is set in the header, using ClinicalDocument/relatedDocument.

Table 52: External Document Reference Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
externalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.115:2014-06-09)					
@classCode	1..1	SHALL		1098-31931	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = DOCCLIN
@moodCode	1..1	SHALL		1098-31932	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		1098-32748	
@root	1..1	SHALL		1098-32750	2.16.840.1.113883.10.20.22.4.115
@extension	1..1	SHALL		1098-32749	2014-06-09
id	1..1	SHALL		1098-32751	
code	1..1	SHALL		1098-31933	
setId	0..1	SHOULD		1098-32752	
versionNumber	0..1	SHOULD		1098-32753	

1. **SHALL** contain exactly one [1..1] **@classCode**="DOCCLIN" Clinical Document (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1098-31931).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1098-31932).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-32748) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.115" (CONF:1098-32750).
   b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32749).
4. **SHALL** contain exactly one [1..1] **id** (CONF:1098-32751).
5. **SHALL** contain exactly one [1..1] **code** (CONF:1098-31933).
6. **SHOULD** contain zero or one [0..1] **setId** (CONF:1098-32752).
7. **SHOULD** contain zero or one [0..1] **versionNumber** (CONF:1098-32753).

Figure 34: External Document Reference Example

```
<externalDocument classCode="DOCCLIN" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.115"
        extension="2014-06-09" />
    <id root="6f1bd58b-c58f-40b7-b314-caf1294ed98b" />
    <code codeSystem="2.16.840.1.113883.6.1"
        codeSystemName="LOINC"
        code="57133-1"
        displayName="Referral Note" />
    <setId extension="sTT988" root="2.16.840.1.113883.19.5.99999.19" />
    <versionNumber value="1" />
</externalDocument>
```

3.8.1 eICR External Document Reference

```
[externalDocument: identifier
urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.10:2017-04-01 (open)]

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```

Table 53: eICR External Document Reference Contexts

Contained By:	Contains:
Received eICR Information (required)	

This template is a reference to the eICR CDA document for which this Reportability Response CDA document is a response.

Table 54: eICR External Document Reference Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
externalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.10:2017-04-01)					
@classCode	1..1	SHALL		3315-194	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = DOCCLIN
@moodCode	1..1	SHALL		3315-195	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-193	
@root	1..1	SHALL		3315-197	2.16.840.1.113883.10.20.15.2.3.10
@extension	1..1	SHALL		3315-198	2017-04-01
id	1..1	SHALL		3315-433	
code	1..1	SHALL		3315-196	
@code	1..1	SHALL		3315-199	55751-2
@codeSystem	1..1	SHALL		3315-200	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
text	0..1	MAY		3315-201	
reference	0..1	MAY		3315-202	

1. Conforms to **External Document Reference** template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.115:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="DOCCLIN" Clinical Document (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3315-194).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3315-195).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-193) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.10" (CONF:3315-197).
   b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-198).
5. **SHALL** contain exactly one [1..1] **id** (CONF:3315-433).
   Note: eICR CDA Document ID
6. **SHALL** contain exactly one [1..1] **code** (CONF:3315-196).
   a. This code **SHALL** contain exactly one [1..1] **@code**="55751-2" Public Health Case Report (eICR) (CONF:3315-199).

b. This code **SHALL** contain exactly one [1..1]
   @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC
   urn:oid:2.16.840.1.113883.6.1) (CONF:3315-200).

If a link to the eICR document is available, it should be placed in the text/reference element.

7. **MAY** contain zero or one [0..1] **text** (CONF:3315-201).
   Note: Reference to eICR CDA Document
   a. The text, if present, **MAY** contain zero or one [0..1] **reference** (CONF:3315-202).

Figure 35: iICR External Document Reference Example

```
<externalDocument classCode="DOCCLIN" moodCode="EVN">
    <!-- [C-CDA R2.0 External Document Reference] -->
    <templateId root="2.16.840.1.113883.10.20.22.4.115" extension="2014-06-09" />
    <!-- [RR R1S1 eICR External Document Reference] -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.10" extension="2017-04-01" />
    <!-- ClinicalDocument/id of the eICR CDA instance that this document is in response to
-->
    <id root="ca316e79-aaf2-4e8c-aa5f-848093bb8bb1" />
    <!-- eICR ClinicalDocument/code (hard coded to this) -->
    <code code="55751-2"
        codeSystem="2.16.840.1.113883.6.1"
        codeSystemName="LOINC"
        displayName="Public Health Case Report (eICR)" />
    <!-- If there is a setId and versionNumber this must be populated -->
    <setId extension="sTT988" root="2.16.840.1.113883.19.5.99999.19" />
        <versionNumber value="1" />
    <!-- if a link to the eICR document is available, it should be placed in the
text/reference element -->
    <text>
        <reference value="https://www.provider.com/eICR_CDA_document.xml" />
    </text>
</externalDocument>
```

3.9   External Reference

```
[externalDocument: identifier
urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.17:2017-04-01 (open)]

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```

Table 55: External Reference Contexts

Contained By:	Contains:
External Resources (required)	

This template contains an external reference.

Table 56: External Reference Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
externalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.17:2017-04-01)					
@classCode	1..1	SHALL		3315-276	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = DOC
@moodCode	1..1	SHALL		3315-277	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-271	
@root	1..1	SHALL		3315-274	2.16.840.1.113883.10.20.15.2.3.17
@extension	1..1	SHALL		3315-275	2017-04-01
id	0..*	MAY		3315-284	
code	1..1	SHALL		3315-272	
@nullFlavor	1..1	SHALL		3315-285	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = OTH
originalText	1..1	SHALL		3315-281	
reference	1..1	SHALL		3315-282	
@value	1..1	SHALL		3315-283	
text	1..1	SHALL		3315-273	
reference	1..1	SHALL		3315-280	

1. **SHALL** contain exactly one [1..1] **@classCode**="DOC" Document (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3315-276).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3315-277).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-271) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.17" (CONF:3315-274).
   b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-275).
4. **MAY** contain zero or more [0..*] **id** (CONF:3315-284).
5. **SHALL** contain exactly one [1..1] **code** (CONF:3315-272).
   a. This code **SHALL** contain exactly one [1..1] **@nullFlavor**="OTH" (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008) (CONF:3315-285).
   b. This code **SHALL** contain exactly one [1..1] **originalText** (CONF:3315-281).

i. This originalText **SHALL** contain exactly one [1..1] **reference** (CONF:3315-282).

   1. This reference **SHALL** contain exactly one [1..1] **@value** (CONF:3315-283).

      a. This reference/@value **SHALL** equal the concatenation of '#ref' and the value of id/@root and **SHALL** point to its corresponding narrative (using the approach defined in CDA Release 2, section 4.3.5.1) (CONF:3315-286).

If a link to the eICR document is available, it should be placed in the text/reference element.

6. **SHALL** contain exactly one [1..1] **text** (CONF:3315-273).

   a. This text **SHALL** contain exactly one [1..1] **reference** (CONF:3315-280).

Figure 36: External Reference Example

```
<externalDocument classCode="DOC" moodCode="EVN">
    <!-- [RR R1S1] External Reference -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.17" extension="2017-04-01" />
    <id root="ec84fae2-d76f-4a91-9efb-4761e5d4267d" />
    <code nullFlavor="OTH">
        <!-- The originalText/reference/@value is id/@root prefixed with "#ref_"
             and points up into the narrative -->
        <originalText mediaType="text/x-hl7-text+xml">
            <reference value="#ref_ec84fae2-d76f-4a91-9efb-4761e5d4267d" />
        </originalText>
    </code>
    <text mediaType="text/html">
        <reference value="https://www.colorado.gov/pacific/sites/default/files/DC_ComDis-
Disease-Reporting_Form.pdf" />
    </text>
</externalDocument>
```

3.10 External Resources

```
[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.20:2017-04-01
(open)]

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```

Table 57: External Resources Contexts

Contained By:	Contains:
Possible Reportable Condition Observation (optional) Reportability Information Organizer (optional)	External Reference

This act represents one or more external resources such as a link to access forms for additional reporting needs, additional testing and/or laboratory testing needs, treatment and/or prevention resources, primary Public Health Agency contact information and general additional resources.

The type/category of the resource is contained in code and the priority placed on the reference is represented by priorityCode.

One or more contained External Reference templates are used to specify the reference and its textual description.

Table 58: External Resources Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.20:2017-04-01)					
@classCode	1..1	SHALL		3315-448	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		3315-449	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-435	
@root	1..1	SHALL		3315-440	2.16.840.1.113883.10.20.15.2.3.20
@extension	1..1	SHALL		3315-450	2017-04-01
id	1..1	SHALL		3315-597	
code	1..1	SHALL		3315-436	urn:oid:2.16.840.1.113883.10.20.15.2.5.4 (External Resource Type)
priorityCode	1..1	SHALL		3315-454	
@nullFlavor	0..0	SHALL NOT		3315-626	
@code	1..1	SHALL		3315-627	urn:oid:2.16.840.1.113883.10.20.15.2.5.5 (Reportability Priority)
reference	1..*	SHALL		3315-438	
@typeCode	1..1	SHALL		3315-444	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
externalDocument	1..1	SHALL		3315-451	External Reference (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.17:2017-04-01)

1. **SHALL** contain exactly one [1..1] **@classCode**="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3315-448).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3315-449).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-435) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.20" (CONF:3315-440).

b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-450).

4. **SHALL** contain exactly one [1..1] **id** (CONF:3315-597).

5. **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet **External Resource Type** urn:oid:2.16.840.1.113883.10.20.15.2.5.4 **DYNAMIC** (CONF:3315-436).
   Note: Type/Category of the external resource

6. **SHALL** contain exactly one [1..1] **priorityCode** (CONF:3315-454).
   Note: Priority
     a. This priorityCode **SHALL NOT** contain [0..0] **@nullFlavor** (CONF:3315-626).
     b. This priorityCode **SHALL** contain exactly one [1..1] **@code**, which **SHALL** be selected from ValueSet **Reportability Priority** urn:oid:2.16.840.1.113883.10.20.15.2.5.5 **DYNAMIC** (CONF:3315-627).

7. **SHALL** contain at least one [1..*] **reference** (CONF:3315-438).
     a. Such references **SHALL** contain exactly one [1..1] **@typeCode**="REFR" refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3315-444).
     b. Such references **SHALL** contain exactly one [1..1] **External Reference** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.17:2017-04-01) (CONF:3315-451).

Table 59: External Resource Type

Value Set: External Resource Type urn:oid:2.16.840.1.113883.10.20.15.2.5.4		
This value set contains codes that describe the type/category of an external resource used in a Public Health Reportability Response.			

Code	Code System	Code System OID	Print Name
TEMP_CODE_OUTBREAK	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.11422 2.4.5.274	Outbreak- or Cluster Related
TEMP_CODE_ADD_REP_ NEEDS	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.11422 2.4.5.274	Additional reporting needs
TEMP_CODE_ADD_LAB_ NEEDS	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.11422 2.4.5.274	Additional detection and/or laboratory testing needs
TEMP_CODE_TREAT_PR EVENT	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.11422 2.4.5.274	Treatment and/or prevention
TEMP_CODE_JURIS_CO NTACT	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.11422 2.4.5.274	Jurisdiction Contact Information
TEMP_CODE_ADD_RESO URCES	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.11422 2.4.5.274	Additional Resources

Table 60: Reportability Priority

Code	Code System	Code System OID	Print Name
Value Set: Reportability Priority urn:oid:2.16.840.1.113883.10.20.15.2.5.5			
This value set contains codes that describe the reportability priority in a Reportability Response document.			
TEMP_CODE_ACTION_RE QUIRED	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.11422 2.4.5.274	Action required
TEMP_CODE_ACTION_RE COMMENDED	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.11422 2.4.5.274	Action recommended
TEMP_CODE_INFORMATI ON_ONLY	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.11422 2.4.5.274	Information only

Figure 37: External Resources Example

```
<act classCode="ACT" moodCode="EVN">
    <!-- [RR R1S1] External Resources -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.20" extension="2017-04-01" />
    <id root="6e58ab9d-f3c9-4f87-8ddb-2bda4133ceef" />
    <code code="TEMP_CODE_TREAT_PREVENT"
        displayName="Treatment and/or prevention"
        codeSystem="2.16.840.1.114222.4.5.274"
        codeSystemName="PHIN VS (CDC Local Coding System)" />
    <priorityCode code="TEMP_CODE_ACTION_REQUIRED"
        displayName="Action required"
        codeSystem="2.16.840.1.114222.4.5.274"
        codeSystemName="PHIN VS (CDC Local Coding System)" />
    <reference typeCode="REFR">
        <externalDocument classCode="DOC" moodCode="EVN">
            <!-- [RR R1 STU1] External Reference -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.17" extension="2017-04-01" />
            ...
        </externalDocument>
    </reference>
    <reference typeCode="REFR">
        <externalDocument classCode="DOC" moodCode="EVN">
            <!-- [RR R1 STU1] External Reference -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.17" extension="2017-04-01" />
            ...
        </externalDocument>
    </reference>
    ...
</act>
```

3.11 Inactive RCTC Code

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.25:2017-04-01 (open)]

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Table 61: Inactive RCTC Code Contexts

Contained By:	Contains:
Electronic Initial Case Report Section (optional)	

This template contains an inactive RCTC code. This template will only be present if an inactive RCTC code has been used in the eICR CDA document.

Table 62: Inactive RCTC Code Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.25:2017-04-01)					
@classCode	1..1	SHALL		3315-509	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3315-510	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-502	
@root	1..1	SHALL		3315-504	2.16.840.1.113883.10.20.15.2.3.25
@extension	1..1	SHALL		3315-505	2017-04-01
code	1..1	SHALL		3315-503	
@code	1..1	SHALL		3315-506	TEMP_CODE_INACTIVE_RCTC
@codeSystem	1..1	SHALL		3315-507	urn:oid:2.16.840.1.114222.4.5.274 (PHIN VS (CDC Local Coding System)) = 2.16.840.1.114222.4.5.274
value	1..1	SHALL	CD	3315-508	

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3315-509).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3315-510).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-502) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.25" (CONF:3315-504).
   b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-505).

4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-503).
   a. This code **SHALL** contain exactly one [1..1] **@code**="TEMP_CODE_INACTIVE_RCTC" Expected RCTC Version (CONF:3315-506).
   b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.114222.4.5.274" (CodeSystem: PHIN VS (CDC Local Coding System) urn:oid:2.16.840.1.114222.4.5.274) (CONF:3315-507).
5. **SHALL** contain exactly one [1..1] **value** with @xsi:type="CD" (CONF:3315-508).
   Note: Inactive RCTC Code

Figure 38: Inactive RCTC Code Example

```
<observation classCode="OBS" moodCode="EVN">
    <!-- [RR R1S1] Inactive RCTC Code -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.25" extension="2017-04-01" />
    <id root="80f7b4ff-4d96-46ef-ae8f-af1f9c1f206c" />
    <code code="TEMP_CODE_INACTIVE_RCTC"
        displayName="Inactive RCTC Code"
        codeSystem="2.16.840.1.114222.4.5.274"
        codeSystemName="PHIN VS (CDC Local Coding System)" />
    <value xsi:type="CD" code="13223-3 "
        displayName="Deprecated Chlamydia trachomatis B Ab [Units/?volume] in Serum"
        codeSystem="2.16.840.1.113883.6.1"
        codeSystemName="LOINC"
        sdtc:valueSet="2.16.840.1.113762.1.4.1146.42"
        sdtc:valueSetVersion="19/05/2015" />
</observation>
```

3.12 Instruction (V2)

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09 (open)]

Published as part of Consolidated CDA Templates for Clinical Notes (US Realm) DSTU R2

The Instruction template can be used in several ways, such as to record patient instructions within a Medication Activity or to record fill instructions within a supply order. The template's moodCode can only be INT. If an instruction was already be given, the Procedure Activity Act template (instead of this template) should be used to represent the already occurred instruction. The act/code defines the type of instruction. Though not defined in this template, a Vaccine Information Statement (VIS) document could be referenced through act/reference/externalDocument, and patient awareness of the instructions can be represented with the generic participant and the participant/awarenessCode.

Table 63: Instruction (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09)					
@classCode	1..1	SHALL		1098-7391	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1098-7392	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = INT
templateId	1..1	SHALL		1098-7393	
@root	1..1	SHALL		1098-10503	2.16.840.1.113883.10.20.22.4.20
@extension	1..1	SHALL		1098-32598	2014-06-09
code	1..1	SHALL		1098-16884	urn:oid:2.16.840.1.113883.11.20.9.34 (Patient Education)
statusCode	1..1	SHALL		1098-7396	
@code	1..1	SHALL		1098-19106	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed

1. **SHALL** contain exactly one [1..1] **@classCode**="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-7391).
2. **SHALL** contain exactly one [1..1] **@moodCode**="INT" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-7392).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-7393) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.20" (CONF:1098-10503).
   b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32598).
4. **SHALL** contain exactly one [1..1] **code**, which **SHOULD** be selected from ValueSet **Patient Education** urn:oid:2.16.840.1.113883.11.20.9.34 **DYNAMIC** (CONF:1098-16884).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-7396).
   a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" Completed (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:1098-19106).

Table 64: Patient Education

Value Set: Patient Education urn:oid:2.16.840.1.113883.11.20.9.34			
Limited to terms descending from the Education (409073007) hierarchy.			
Value Set Source: **https://vsac.nlm.nih.gov/**			
Code	**Code System**	**Code System OID**	**Print Name**
311401005	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Patient Education
171044003	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Immunization Education
243072006	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Cancer Education
...			

Figure 39: Instruction (V2) Example

```
<act classCode="ACT" moodCode="INT">
<templateId root="2.16.840.1.113883.10.20.22.4.20" extension="2014-06-09" />
<code code="171044003" codeSystem="2.16.840.1.113883.6.96" displayName="immunization
education" />
<text>
 <reference value="#immunSect" />
 Possible flu-like symptoms for three days.
</text>
<statusCode code="completed" />
</act>
```

3.12.1 Reportability Response Subject

```
[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.7:2017-04-01
(open)]

Draft as part of Reportability Response
```

Table 65: Reportability Response Subject Contexts

Contained By:	**Contains:**
Reportability Response Subject Section (required)	

This template contains a short high-level description of the reportable condition and any actions taken. This information can be used in a work queue or an email subject.

Table 66: Reportability Response Subject Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.7:2017-04-01)					
@classCode	1..1	SHALL		[3315-148](#)	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		[3315-149](#)	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = INT
templateId	1..1	SHALL		[3315-146](#)	
@root	1..1	SHALL		[3315-150](#)	2.16.840.1.113883.10.20.15.2.3.7
@extension	1..1	SHALL		[3315-151](#)	2017-04-01
id	1..1	SHALL		[3315-155](#)	
@root	1..1	SHALL		[3315-159](#)	
code	1..1	SHALL		[3315-152](#)	
@code	0..1	MAY		[3315-153](#)	131195008
@codeSystem	0..1	MAY		[3315-154](#)	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
text	1..1	SHALL		[3315-156](#)	
reference	1..1	SHALL		[3315-157](#)	
@value	0..1	SHALL		[3315-158](#)	

1. Conforms to **Instruction (V2)** template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3315-148).
3. **SHALL** contain exactly one [1..1] **@moodCode**="INT" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3315-149).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-146) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.7" (CONF:3315-150).
   b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-151).
5. **SHALL** contain exactly one [1..1] **id** (CONF:3315-155).
   a. This id **SHALL** contain exactly one [1..1] **@root** (CONF:3315-159).
6. **SHALL** contain exactly one [1..1] **code** (CONF:3315-152).

a. This code **MAY** contain zero or one [0..1] **@code**="131195008" Subject of information (CONF:3315-153).

b. This code **MAY** contain zero or one [0..1] **@codeSystem**="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:3315-154).

7. **SHALL** contain exactly one [1..1] **text** (CONF:3315-156).

a. This text **SHALL** contain exactly one [1..1] **reference** (CONF:3315-157).

i. This reference **SHALL** contain zero or one [0..1] **@value** (CONF:3315-158).

1. This reference/@value **SHALL** be '#ref' plus id/@root and **SHALL** point to its corresponding narrative (using the approach defined in CDA Release 2, section 4.3.5.1) (CONF:3315-160).

Figure 40: Reportability Response Subject Example

```
<act classCode="ACT" moodCode="INT">
    <!-- [C-CDA R2.1] Instruction (V2) -->
    <templateId root="2.16.840.1.113883.10.20.22.4.20" extension="2014-06-09" />
    <!-- [RR R1S1] Reportability Response Subject -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.7" extension="2017-04-01" />
    <id root="c62d8411-27a3-4d22-9ddb-a4998faea87a" />
    <code code="131195008"
        codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT"
        displayName="Subject of information" />
    <!-- The text/reference/@value is id/@root prefixed with "#ref_"
        and points up into the narrative -->
    <text>
        <reference value="#ref_c62d8411-27a3-4d22-9ddb-a4998faea87a" />
    </text>
    <statusCode code="completed" />
</act>
```

3.12.2 Reportability Response Summary

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.8:2017-04-01 (open)]

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Table 67: Reportability Response Summary Contexts

Contained By:	Contains:
Reportability Response Summary Section (required)	

This template contains a description of the reportability determination for the condition(s) from the corresponding eICR CDA document, the responsible PHA(s) in which the condition(s) was determined to be reportable, and the PHA(s) that have been sent the eICR (when deemed reportable).Table 68: Reportability Response Summary Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.8:2017-04-01)					
@classCode	1..1	SHALL		3315-170	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		3315-171	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = INT
templateId	1..1	SHALL		3315-162	
@root	1..1	SHALL		3315-168	2.16.840.1.113883.10.20.15.2.3.8
@extension	1..1	SHALL		3315-169	2017-04-01
id	1..1	SHALL		3315-164	
@root	1..1	SHALL		3315-174	
code	1..1	SHALL		3315-163	
@code	0..1	MAY		3315-172	304561000
@codeSystem	0..1	MAY		3315-173	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
text	1..1	SHALL		3315-165	
reference	1..1	SHALL		3315-166	
@value	1..1	SHALL		3315-167	

1. Conforms to **Instruction (V2)** template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3315-170).
3. **SHALL** contain exactly one [1..1] **@moodCode**="INT" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3315-171).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-162) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.8" (CONF:3315-168).
   b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-169).
5. **SHALL** contain exactly one [1..1] **id** (CONF:3315-164).
   a. This id **SHALL** contain exactly one [1..1] **@root** (CONF:3315-174).
6. **SHALL** contain exactly one [1..1] **code** (CONF:3315-163).
   a. This code **MAY** contain zero or one [0..1] **@code**="304561000" Informing health care professional (procedure) (CONF:3315-172).

b. This code **MAY** contain zero or one [0..1] **@codeSystem**="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:3315-173).

7. **SHALL** contain exactly one [1..1] **text** (CONF:3315-165).

    a. This text **SHALL** contain exactly one [1..1] **reference** (CONF:3315-166).

        i. This reference **SHALL** contain exactly one [1..1] **@value** (CONF:3315-167).

            1. This reference/@value **SHALL** be '#ref' plus id/@root and **SHALL** point to its corresponding narrative (using the approach defined in CDA Release 2, section 4.3.5.1) (CONF:3315-175).

Figure 41: Reportabilty Response Summary Example

```
<act classCode="ACT" moodCode="INT">
    <!-- [C-CDA R2.1] Instruction (V2) -->
    <templateId root="2.16.840.1.113883.10.20.22.4.20" extension="2014-06-09" />
    <!-- [RR R1S1] Reportability Response Summary -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.8" extension="2017-04-01" />
    <id root="7a0ed3d3-16f3-4fa9-bac5-882f5c7d44b8" />
    <code code="304561000"
        codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT"
        displayName="Informing health care professional (procedure)" />
    <!-- The text/reference/@value is id/@root prefixed with "#ref_" and points up into the
narrative -->
    <text><reference value="#ref_7a0ed3d3-16f3-4fa9-bac5-882f5c7d44b8" /></text>
    <statusCode code="completed" />
</act>
```

3.13 Manually Initiated eICR

```
[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.22:2017-04-01
(open)]
```

Draft as part of Reportability Response

Table 69: Manually Initiated eICR Contexts

Contained By:	Contains:
Electronic Initial Case Report Section (optional)	Initial Case Report Manual Initiation Reason Observation

When this template is present, it indicates that the eICR CDA document for which this Reportability Response CDA document is a response, was not generated due to the presence of an RCTC trigger code in the EHR. Instead it was manually initiated by the provider. The provider should indicate an explanation for this manual initiation in the contained Initial Case Report Manual Initiation Reason Observation template.

Table 70: Manually Initiated eICR Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.22:2017-04-01)					
@classCode	1..1	SHALL		3315-462	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		3315-463	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-456	
@root	1..1	SHALL		3315-458	2.16.840.1.113883.10.20.15.2.3.22
@extension	1..1	SHALL		3315-459	2017-04-01
code	1..1	SHALL		3315-460	
@code	1..1	SHALL		3315-464	PHC1464
@codeSystem	1..1	SHALL		3315-465	urn:oid:2.16.840.1.114222.4.5.274 (PHIN VS (CDC Local Coding System)) = 2.16.840.1.114222.4.5.274
entryRelationship	1..1	SHALL		3315-645	
@typeCode	1..1	SHALL		3315-646	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		3315-647	Initial Case Report Manual Initiation Reason Observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.5:2016-12-01

1. **SHALL** contain exactly one [1..1] **@classCode**="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3315-462).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3315-463).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-456) such that it
    a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.22" (CONF:3315-458).
    b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-459).
4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-460).
    a. This code **SHALL** contain exactly one [1..1] **@code**="PHC1464" Manually Initiated eICR (CONF:3315-464).
    b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.114222.4.5.274" (CodeSystem: PHIN VS (CDC

Local Coding System) urn:oid:2.16.840.1.114222.4.5.274) (CONF:3315-465).

5. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:3315-645) such that it

    a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" Reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3315-646).

    b. **SHALL** contain exactly one [1..1] **Initial Case Report Manual Initiation Reason Observation** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.5:2016-12-01) (CONF:3315-647).

Figure 42: Manually Initiated eICR Example

```
<act classCode="ACT" moodCode="EVN">
    <!-- [RR R1S1] Manually Initiated eICR -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.22" extension="2017-04-01" />
    <id root="39d966b9-8a3a-4024-93d8-138e97d58986" />
    <code code="PHC1464"
        displayName="Manually Initiated eICR"
        codeSystem="2.16.840.1.114222.4.5.274"
        codeSystemName="PHIN VS (CDC Local Coding System)" />
    <!-- Initial Case Report Manual Initiation Reason -->
    <entryRelationship typeCode="RSON">
        <observation classCode="OBS" moodCode="EVN">
            <!-- [C-CDA R2.1] Problem Observation (V3) -->
            <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2015-08-01" />
            <!-- [eICR R2 STU1.1] Initial Case Report Manual Initiation Reason Observation
-->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.5" extension="2016-12-01" />
            ...
        </observation>
    </entryRelationship>
</act>
```

3.14 Outdated RCTC Version

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.23:2017-04-01 (open)]

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Table 71: Outdated RCTC Version Contexts

Contained By:	Contains:
Electronic Initial Case Report Section (optional)	Expected RCTC Version

This template will only be present when an outdated RCTC version has been used to initiate the generation of the eICR CDA document. The value of the outdated RCTC version will be present in the value element and the contained Expected RCTC Version template will indicate the expected RCTC version.

Table 72: Outdated RCTC Version Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.23:2017-04-01)					
@classCode	1..1	SHALL		3315-486	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3315-487	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-479	
@root	1..1	SHALL		3315-481	2.16.840.1.113883.10.20.15.2.3.23
@extension	1..1	SHALL		3315-482	2017-04-01
code	1..1	SHALL		3315-480	
@code	1..1	SHALL		3315-483	TEMP_CODE_OUTDATED_RCTC
@codeSystem	1..1	SHALL		3315-484	urn:oid:2.16.840.1.114222.4.5.274 (PHIN VS (CDC Local Coding System)) = 2.16.840.1.114222.4.5.274
value	1..1	SHALL	ST	3315-485	
entryRelationship	1..1	SHALL		3315-499	
@typeCode	1..1	SHALL		3315-500	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
observation	1..1	SHALL		3315-501	Expected RCTC Version (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.24:2017-04-01

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass `urn:oid:2.16.840.1.113883.5.6` **STATIC**) (CONF:3315-486).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood `urn:oid:2.16.840.1.113883.5.1001` **STATIC**) (CONF:3315-487).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-479) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.23" (CONF:3315-481).
   b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-482).
4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-480).
   a. This code **SHALL** contain exactly one [1..1] **@code**="TEMP_CODE_OUTDATED_RCTC" Outdated RCTC Version (CONF:3315-483).

b. This code **SHALL** contain exactly one [1..1]
   @codeSystem="2.16.840.1.114222.4.5.274" (CodeSystem: PHIN VS (CDC
   Local Coding System) urn:oid:2.16.840.1.114222.4.5.274) (CONF:3315-
   484).

5. **SHALL** contain exactly one [1..1] **value** with @xsi:type="ST" (CONF:3315-485).
   Note: Outdated RCTC Version

6. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:3315-499).
   a. This entryRelationship **SHALL** contain exactly one [1..1] **@typeCode**="COMP"
      (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
      (CONF:3315-500).
   b. This entryRelationship **SHALL** contain exactly one [1..1] **Expected RCTC Version**
      (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.24:2017-04-01)
      (CONF:3315-501).

Figure 43: Outdated RCTC Version Example

```
<observation classCode="OBS" moodCode="EVN">
    <!-- [RR R1S1] Outdated RCTC Version -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.23" extension="2017-04-01" />
    <id root="80f7b4ff-4d96-46ef-ae8f-af1f9c1f206c" />
    <code code="TEMP_CODE_OUTDATED_RCTC"
        displayName="Outdated RCTC Version"
        codeSystem="2.16.840.1.114222.4.5.274"
        codeSystemName="PHIN VS (CDC Local Coding System)" />
    <value xsi:type="ST">19/05/2015</value>
    <entryRelationship typeCode="COMP">
        <!-- Expected RCTC Version -->
        <observation classCode="OBS" moodCode="EVN">
            <!-- [RR R1S1] Expected RCTC Version -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.24" extension="2017-04-01" />
            ...
        </observation>
    </entryRelationship>
</observation>
```

3.15 Possible Reportable Condition Observation

```
[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.12:2017-04-
01 (open)]
```

Draft as part of Reportability Response

Table 73: Possible Reportable Condition Observation Contexts

Contained By:	Contains:
Reportability Response Coded Information Section (required)	External Resources Reportability Information Organizer

This template represents a possible reportable condition. It contains one (if both the patient's home and the provider location fall into the jurisdiction of the same responsible agency) or

more (if the patient's home and provider location fall into different jurisdictions) Reportability Information Organizers. It may also contain external resources specific to the condition.

Table 74: Possible Reportable Condition Observation Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.12:2017-04-01)					
@classCode	1..1	SHALL		3315-233	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3315-234	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-217	
@root	1..1	SHALL		3315-225	2.16.840.1.113883.10.20.15.2.3.12
@extension	1..1	SHALL		3315-226	2017-04-01
code	1..1	SHALL		3315-434	
@code	1..1	SHALL		3315-554	64572001
@codeSystem	1..1	SHALL		3315-555	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
translation	1..1	SHALL		3315-553	
@code	1..1	SHALL		3315-556	75323-6
@codeSystem	1..1	SHALL		3315-557	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
value	1..1	SHALL		3315-552	urn:oid:2.16.840.1.113762.1.4.1146.28 (Trigger code for condition name (RCTC subset))
entryRelationship	1..*	SHALL		3315-548	
organizer	1..1	SHALL		3315-550	Reportability Information Organizer (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.13:2017-04-01
entryRelationship	0..*	MAY		3315-549	
act	1..1	SHALL		3315-551	External Resources (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.20:2017-04-01

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3315-233).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3315-234).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-217) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.12" (CONF:3315-225).
   b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-226).
4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-434).
   a. This code **SHALL** contain exactly one [1..1] **@code**="64572001" Condition (CONF:3315-554).
   b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:3315-555).
   c. This code **SHALL** contain exactly one [1..1] **translation** (CONF:3315-553).
      i. This translation **SHALL** contain exactly one [1..1] **@code**="75323-6" Condition (CONF:3315-556).
      ii. This translation **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3315-557).
5. **SHALL** contain exactly one [1..1] **value**, which **SHALL** be selected from ValueSet **Trigger code for condition name (RCTC subset)** urn:oid:2.16.840.1.113762.1.4.1146.28 **DYNAMIC** (CONF:3315-552).
6. **SHALL** contain at least one [1..*] **entryRelationship** (CONF:3315-548) such that it
   a. **SHALL** contain exactly one [1..1] **Reportability Information Organizer** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.13:2017-04-01) (CONF:3315-550).
7. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:3315-549) such that it
   a. **SHALL** contain exactly one [1..1] **External Resources** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.20:2017-04-01) (CONF:3315-551).

Table 75: Trigger code for condition name (RCTC subset)

Value Set: Trigger code for condition name (RCTC subset) urn:oid:2.16.840.1.113762.1.4.1146.28
This value set is a subset of the Reportable Condition Trigger Code (RCTC) value set and contains trigger codes for condition names. Use the superset RCTC OID (2.16.840.1.114222.4.11.7508) and RCTC Definition Version (e.g. 19/05/2016) when populating @sdtc:valueSet and @sdtc:valueSetVersion.
Value Set Source: **https://phinvads.cdc.gov/vads/DownloadHotTopicDetailFile.action?filename=42399A0D-011E-E611-BD10-0017A477041A**

Code	Code System	Code System OID	Print Name
Code from RCTC	Multiple Code Systems	http://codesystem.com	See link above for latest value set
...			

Figure 44: Possible Reportable Condition Observation Example

```
<observation classCode="OBS" moodCode="EVN">
    <!-- [RR R1S1] Possible Reportable Condition Observation -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.12" extension="2017-04-01" />
    <id root="a054d401-7b23-4b15-bc28-c889c156ba6a" />
    <code code="64572001"
        codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED"
        displayName="Condition">
        <translation code="75323-6"
            codeSystem="2.16.840.1.113883.6.1"
            codeSystemName="LOINC"
            displayName="Condition" />
    </code>
    <!-- Condition code (SNOMED CT) -->
    <value xsi:type="CD" code="3928002"
        codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT"
        displayName="Zika virus disease (disorder)"
        sdtc:valueSet="2.16.840.1.113762.1.4.1146.28"
        sdtc:valueSetVersion="19/05/2016" />
    <!-- Relevant Location Reporting Information Organizer: Both Home and Provider -->
    <entryRelationship typeCode="COMP">
        <organizer classCode="CLUSTER" moodCode="EVN">
            <!-- [RR R1S1] Relevant Location Reporting Information Organizer: Both Home and
Provider -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.13" extension="2017-04-01" />
            ...
        </organizer>
    </entryRelationship>
</observation>
```

3.16 Problem Observation (V3)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2015-08-01 (open)]

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This template reflects a discrete observation about a patient's problem. Because it is a discrete observation, it will have a statusCode of "completed". The effectiveTime, also referred to as the "biologically relevant time" is the time at which the observation holds for the patient. For a provider seeing a patient in the clinic today, observing a history of heart attack that occurred five years ago, the effectiveTime is five years ago.

The effectiveTime of the Problem Observation is the definitive indication of whether or not the underlying condition is resolved. If the problem is known to be resolved, then an effectiveTime/high would be present. If the date of resolution is not known, then effectiveTime/high will be present with a nullFlavor of "UNK".

Table 76: Problem Observation (V3) Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2015-08-01)					
@classCode	1..1	SHALL		1198-9041	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1198-9042	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
@negationInd	0..1	MAY		1198-10139	
templateId	1..1	SHALL		1198-14926	
@root	1..1	SHALL		1198-14927	2.16.840.1.113883.10.20.22.4.4
@extension	1..1	SHALL		1198-32508	2015-08-01
id	1..*	SHALL		1198-9043	
code	1..1	SHALL		1198-9045	urn:oid:2.16.840.1.113883.3.88.12.3221.7.2 (Problem Type)
translation	1..*	SHALL		1198-32848	urn:oid:2.16.840.1.113883.3.88.12.3221.7.2 (Problem Type)
statusCode	1..1	SHALL		1198-9049	
@code	1..1	SHALL		1198-19112	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
effectiveTime	1..1	SHALL		1198-9050	
low	1..1	SHALL		1198-15603	
high	0..1	MAY		1198-15604	
value	1..1	SHALL	CD	1198-9058	urn:oid:2.16.840.1.113883.3.88.12.3221.7.4 (Problem)
qualifier	0..*	MAY		1198-31870	
translation	0..*	MAY		1198-16749	
@code	0..1	MAY		1198-16750	urn:oid:2.16.840.1.113883.6.90 (ICD-10-CM)
@code	0..1	MAY		1198-31871	
author	0..*	SHOULD		1198-31147	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119
entryRelationship	0..1	MAY		1198-9059	

@typeCode	1..1	SHALL		1198-9060	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
@inversionInd	1..1	SHALL		1198-9069	true
observation	1..1	SHALL		1198-15590	Age Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.31
entryRelationship	0..1	MAY		1198-29951	
@typeCode	1..1	SHALL		1198-31531	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1198-29952	Prognosis Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.113
entryRelationship	0..*	MAY		1198-31063	
@typeCode	1..1	SHALL		1198-31532	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1198-31064	Priority Preference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143
entryRelationship	0..1	MAY		1198-9063	
@typeCode	1..1	SHALL		1198-9068	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1198-15591	Problem Status (DEPRECATED) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.6:2014-06-09

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1198-9041).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1198-9042).

The negationInd is used to indicate the absence of the condition in observation/value. A negationInd of "true" coupled with an observation/value of SNOMED code 64572001 "Disease (disorder)" indicates that the patient has no known conditions.

3. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1198-10139).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1198-14926) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.4" (CONF:1198-14927).
   b. **SHALL** contain exactly one [1..1] **@extension**="2015-08-01" (CONF:1198-32508).

5. **SHALL** contain at least one [1..*] **id** (CONF:1198-9043).

6. **SHALL** contain exactly one [1..1] **code**, which **SHOULD** be selected from ValueSet **Problem Type** `urn:oid:2.16.840.1.113883.3.88.12.3221.7.2` **STATIC** 2012-06-01 (CONF:1198-9045).

    a. This code **SHALL** contain at least one [1..*] **translation**, which **SHOULD** be selected from ValueSet **Problem Type** `urn:oid:2.16.840.1.113883.3.88.12.3221.7.2` 2014-09-02 (CONF:1198-32848).

7. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1198-9049).

    a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" Completed (CodeSystem: HL7ActStatus `urn:oid:2.16.840.1.113883.5.14` **STATIC**) (CONF:1198-19112).

If the problem is known to be resolved, but the date of resolution is not known, then the high element SHALL be present, and the nullFlavor attribute SHALL be set to 'UNK'. Therefore, the existence of an high element within a problem does indicate that the problem has been resolved.

8. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1198-9050).

The effectiveTime/low (a.k.a. "onset date") asserts when the condition became biologically active.

    a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1198-15603).

The effectiveTime/high (a.k.a. "resolution date") asserts when the condition became biologically resolved.

    b. This effectiveTime **MAY** contain zero or one [0..1] **high** (CONF:1198-15604).

9. **SHALL** contain exactly one [1..1] **value** with @xsi:type="CD", where the code **SHOULD** be selected from ValueSet **Problem** `urn:oid:2.16.840.1.113883.3.88.12.3221.7.4` **DYNAMIC** (CONF:1198-9058).

The observation/value and all the qualifiers together (often referred to as a post-coordinated expression) make up one concept. Qualifiers constrain the meaning of the primary code, and cannot negate it or change its meaning. Qualifiers can only be used according to well-defined rules of post-coordination and only if the underlying code system defines the use of such qualifiers or if there is a third code system that specifies how other code systems may be combined.

For example, SNOMED CT allows constructing concepts as a combination of multiple codes. SNOMED CT defines a concept "pneumonia (disorder)" (233604007) an attribute "finding site" (363698007) and another concept "left lower lobe of lung (body structure)" (41224006). SNOMED CT allows one to combine these codes in a code phrase, as shown in the sample XML.

    a. This value **MAY** contain zero or more [0..*] **qualifier** (CONF:1198-31870).

    b. This value **MAY** contain zero or more [0..*] **translation** (CONF:1198-16749) such that it

        i. **MAY** contain zero or one [0..1] **@code** (CodeSystem: ICD-10-CM `urn:oid:2.16.840.1.113883.6.90` **STATIC**) (CONF:1198-16750).

A negationInd of "true" coupled with an observation/value/@code of SNOMED code 64572001 "Disease (disorder)" indicates that the patient has no known conditions.

c. This value **MAY** contain zero or one [0..1] **@code** (CONF:1198-31871).

10. **SHOULD** contain zero or more [0..*] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1198-31147).

11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1198-9059) such that it

    a. **SHALL** contain exactly one [1..1] **@typeCode**="SUBJ" Has subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1198-9060).

    b. **SHALL** contain exactly one [1..1] **@inversionInd**="true" True (CONF:1198-9069).

    c. **SHALL** contain exactly one [1..1] Age Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.31) (CONF:1198-15590).

12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1198-29951) such that it

    a. **SHALL** contain exactly one [1..1] **@typeCode**="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1198-31531).

    b. **SHALL** contain exactly one [1..1] Prognosis Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.113) (CONF:1198-29952).

13. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1198-31063) such that it

    a. **SHALL** contain exactly one [1..1] **@typeCode**="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1198-31532).

    b. **SHALL** contain exactly one [1..1] Priority Preference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143) (CONF:1198-31064).

14. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1198-9063) such that it

    a. **SHALL** contain exactly one [1..1] **@typeCode**="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1198-9068).

    b. **SHALL** contain exactly one [1..1] Problem Status (DEPRECATED) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.6:2014-06-09) (CONF:1198-15591).

Table 77: Problem

Value Set: Problem urn:oid:2.16.840.1.113883.3.88.12.3221.7.4
A value set of SNOMED-CT codes limited to terms descending from the Clinical Findings (404684003) or Situation with Explicit Context (243776009) hierarchies.
Specific URL Pending
Value Set Source: http://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.3.88.12.3221.7.4

Code	Code System	Code System OID	Print Name
46635009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	diabetes mellitus type 1
234422006	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	acute intermittent porphyria
31712002	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	primary biliary cirrhosis
302002000	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	difficulty moving
15188001	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	hearing loss
129851009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	alteration in bowel elimination
247472004	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	hives
39579001	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	anaphylaxis
274945004	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	AA amyloidosis (disorder)
129851009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	alteration in comfort: pain
...			

Table 78: Problem Type (SNOMED CT)

Value Set: Problem Type 2.16.840.1.113883.3.88.12.3221.7.2 STATIC 2012-06-01
This value set indicates the level of medical judgment used to determine the existence of a problem.
Value Set Source: http://www.loinc.org/

Code	Code System	Code System OID	Print Name
404684003	SNOMED CT	2.16.840.1.113883.6.96	Finding
409586006	SNOMED CT	2.16.840.1.113883.6.96	Complaint
282291009	SNOMED CT	2.16.840.1.113883.6.96	Diagnosis
64572001	SNOMED CT	2.16.840.1.113883.6.96	Condition
248536006	SNOMED CT	2.16.840.1.113883.6.96	Finding of functional performance and activity
418799008	SNOMED CT	2.16.840.1.113883.6.96	Symptom

| 55607006 | SNOMED CT | 2.16.840.1.113883.6.96 | Problem |
| 373930000 | SNOMED CT | 2.16.840.1.113883.6.96 | Cognitive function finding |

Table 79: Problem Type (LOINC)

Value Set: Problem Type 2.16.840.1.113883.3.88.12.3221.7.2 STATIC 2014-09-02
This value set indicates the level of medical judgment used to determine the existence of a problem.
Value Set Source: **http://www.loinc.org/**

Code	Code System	Code System OID	Print Name
75326-9	LOINC	2.16.840.1.113883.6.1	Problem HL7.CCDAR2
75325-1	LOINC	2.16.840.1.113883.6.1	Symptom HL7.CCDAR2
75324-4	LOINC	2.16.840.1.113883.6.1	Functional performance HL7.CCDAR2
75323-6	LOINC	2.16.840.1.113883.6.1	Condition HL7.CCDAR2
29308-4	LOINC	2.16.840.1.113883.6.1	Diagnosis
75322-8	LOINC	2.16.840.1.113883.6.1	Complaint HL7.CCDAR2
75275-8	LOINC	2.16.840.1.113883.6.1	Cognitive Function HL7.CCDAR2
75321-0	LOINC	2.16.840.1.113883.6.1	Clinical finding HL7.CCDAR2
75319-4	LOINC	2.16.840.1.113883.6.1	Cognitive function family member HL7.CCDAR2
75318-6	LOINC	2.16.840.1.113883.6.1	Problem family member HL7.CCDAR2
75317-8	LOINC	2.16.840.1.113883.6.1	Symptom family member HL7.CCDAR2
75316-0	LOINC	2.16.840.1.113883.6.1	Functional performance family member HL7.CCDAR2
75315-2	LOINC	2.16.840.1.113883.6.1	Condition family member HL7.CCDAR2
75314-5	LOINC	2.16.840.1.113883.6.1	Diagnosis family member HL7.CCDAR2
75313-7	LOINC	2.16.840.1.113883.6.1	Complaint family member HL7.CCDAR2
75312-9	LOINC	2.16.840.1.113883.6.1	Clinical finding family member HL7.CCDAR2

Figure 45: Problem Observation (V3) Example

```
<observation classCode="OBS" moodCode="EVN">
    <!-- ** Problem Observation (V3) ** -->
    <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2015-08-01" />
    <id root="ab1791b0-5c71-11db-b0de-0800200c9a66" />
    <code code="64572001" displayName="Condition"
                                codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED CT">
        <translation code="75323-6"
            codeSystem="2.16.840.1.113883.6.1"
            codeSystemName="LOINC"
            displayName="Condition"/>
    </code>
    <!-- The statusCode reflects the status of the observation itself -->
    <statusCode code="completed" />
    <effectiveTime>
        <!-- The low value reflects the date of onset -->
        <!-- Based on patient symptoms, presumed onset is July 3, 2013 -->
        <low value="20130703" />
        <!-- The high value reflects when the problem was known to be resolved -->
        <!-- Based on signs and symptoms, appears to be resolved on Aug 14, 2013 -->
        <high value="20080814" />
    </effectiveTime>
    <value xsi:type="CD"
    code="233604007"
    codeSystem="2.16.840.1.113883.6.96"
    displayName="Pneumonia" />
    <author typeCode="AUT">
        <templateId root="2.16.840.1.113883.10.20.22.4.119" />
        <time value="200808141030-0800" />
        <assignedAuthor>
            <id extension="555555555" root="2.16.840.1.113883.4.6" />
            <code code="207QA0505X"
        displayName="Adult Medicine"
        codeSystem="2.16.840.1.113883.6.101"
        codeSystemName="Healthcare Provider Taxonomy (HIPAA)" />
        </assignedAuthor>
    </author>
</observation>
```

3.16.1 Initial Case Report Manual Initiation Reason Observation

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.5:2016-12-01 (open)]

Published as part of Public Health Case Report, Release 1, STU Release 1.1 - US Realm

Table 80: Initial Case Report Manual Initiation Reason Observation Contexts

Contained By:	Contains:
Manually Initiated eICR (required)	

This template is designed for optional use in the Encounter Activity (V3) template contained in an Initial Public Health Case Report Document (eICR) (V2). This template **MAY** be included zero or one times [0..1] in an Encounter Activity (V3) template. This template may also be used in other related documents such as the Reportability Response.

This template includes an explanation for the manual initiation of the eICR CDA document. The information will be entered as free text in value/originalText by the provider who made the decision to initiate.

Table 81: Initial Case Report Manual Initiation Reason Observation Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.5:2016-12-01)					
@classCode	1..1	SHALL		3284-366	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3284-367	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3284-340	
@root	1..1	SHALL		3284-352	2.16.840.1.113883.10.20.15.2.3.5
@extension	1..1	SHALL		3284-353	2016-12-01
Value	1..1	SHALL	CD	3284-343	
@nullFlavor	1..1	SHALL		3284-395	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = OTH
originalText	1..1	SHALL		3284-372	

1. Conforms to **Problem Observation (V3)** template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2015-08-01).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3284-366).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3284-367).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:3284-340) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.5" (CONF:3284-352).
   b. **SHALL** contain exactly one [1..1] **@extension**="2016-12-01" (CONF:3284-353).
5. **SHALL** contain exactly one [1..1] **value** with @xsi:type="CD" (CONF:3284-343).
   a. This value **SHALL** contain exactly one [1..1] **@nullFlavor**="OTH" Other (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008) (CONF:3284-395).

Free text description of the reason for manually initiating an eICR.

   b. This value **SHALL** contain exactly one [1..1] **originalText** (CONF:3284-372).

Figure 46: Initial Case Report Manual Trigger Observation Example

```
<observation classCode="OBS" moodCode="EVN">
    <!-- [C-CDA R2.1] Problem Observation (V3) -->
    <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2015-08-01" />
    <!-- [eICR R2 STU1.1] Initial Case Report Manual Initiation Reason Observation -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.5" extension="2016-12-01" />
    <id root="ab1791b0-5c71-11db-b0de-0800200c9a65" />
    <code code="75322-8"
        codeSystem="2.16.840.1.113883.6.1"
        codeSystemName="LOINC"
        displayName="Complaint">
        <translation code="409586006"
            codeSystem="2.16.840.1.113883.6.96"
            codeSystemName="SNOMED CT"
            displayName="Complaint" />
    </code>
    <statusCode code="completed" />
    <effectiveTime>
        <low value="20161106000000-0500" />
    </effectiveTime>
    <value xsi:type="CD" nullFlavor="OTH" >
        <originalText>
            Free text containing the reason
            for the manual eICR document
        </originalText>
    </value>
</observation>
```

3.17 Received eICR Information

```
[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.9:2017-04-01
(open)]
```

Draft as part of Reportability Response

Table 82: Received eICR Information Contexts

Contained By:	Contains:
Electronic Initial Case Report Section (required)	eICR External Document Reference

This template contains information about the received eICR CDA document such as its filename, the date/time of receipt, and an external document reference pointing to the eICR CDA document.

Table 83: Received eICR Information Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.9:2017-04-01)					
@classCode	1..1	SHALL		3315-185	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		3315-186	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = INT
templateId	1..1	SHALL		3315-177	
@root	1..1	SHALL		3315-183	2.16.840.1.113883.10.20.15.2.3.9
@extension	1..1	SHALL		3315-184	2017-04-01
id	1..1	SHALL		3315-179	
@root	1..1	SHALL		3315-189	
code	1..1	SHALL		3315-178	
@code	0..1	MAY		3315-187	TEMP_CODE_eICR_INFO
@codeSystem	0..1	MAY		3315-188	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
text	1..1	SHALL	ST	3315-431	
effectiveTime	1..1	SHALL		3315-432	
reference	1..1	SHALL		3315-190	
@typeCode	1..1	SHALL		3315-191	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
externalDocument	1..1	SHALL		3315-192	eICR External Document Reference (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.10:2017-04-01)

1. **SHALL** contain exactly one [1..1] **@classCode**="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3315-185).
2. **SHALL** contain exactly one [1..1] **@moodCode**="INT" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3315-186).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-177) such that it
    a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.9" (CONF:3315-183).

---

   b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-184).

 4. **SHALL** contain exactly one [1..1] **id** (CONF:3315-179).

   a. This id **SHALL** contain exactly one [1..1] **@root** (CONF:3315-189).

 5. **SHALL** contain exactly one [1..1] **code** (CONF:3315-178).

   a. This code **MAY** contain zero or one [0..1] **@code**="TEMP_CODE_eICR_INFO" Received eICR Information (CONF:3315-187).

   b. This code **MAY** contain zero or one [0..1] **@codeSystem**="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:3315-188).

 6. **SHALL** contain exactly one [1..1] **text** (CONF:3315-431).
  Note: Filename of eICR

 7. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:3315-432).
  Note: Date and time of eICR Receipt

 8. **SHALL** contain exactly one [1..1] **reference** (CONF:3315-190).
  Note: Reference to eICR CDA Document

   a. This reference **SHALL** contain exactly one [1..1] **@typeCode**="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3315-191).

   b. This reference **SHALL** contain exactly one [1..1] **eICR External Document Reference** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.10:2017-04-01) (CONF:3315-192).

Figure 47: Received eICR Information Example

```
<act classCode="ACT" moodCode="INT">
    <!-- [RR R1S1] Received eICR Information -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.9" extension="2017-04-01" />
    <id root="6bff7990-f218-4f9d-a5aa-eb7afa6e9a3c" />
    <code code="TEMP_CODE_eICR_INFO"
        codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT"
        displayName="Received eICR Information" />
    <statusCode code="completed" />
    <!-- Receipt date/time the eICR document that this document is in response to -->
    <effectiveTime value="20161212152000-0700" />
    <reference typeCode="REFR">
        <!-- This is a reference to the eICR document -->
        <externalDocument classCode="DOCCLIN" moodCode="EVN">
            <!-- [C-CDA R2.0 External Document Reference] -->
            <templateId root="2.16.840.1.113883.10.20.22.4.115" extension="2014-06-09" />
            <!-- [RR R1S1 eICR External Document Reference] -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.10" extension="2017-04-01" />
            ...
        </externalDocument>
    </reference>
</act>
```

3.18 Reportability Information Organizer

```
[organizer: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.13:2017-04-01
(open)]
```

```
Draft as part of Reportability Response
```

Table 84: Reportability Information Organizer Contexts

Contained By:	Contains:
Possible Reportable Condition Observation (required)	Authoring Agency Determination of Reportability External Resources Reporting Timeframe Responsible Agency Routing Entity

This template represents reportability information based on the public health jurisdiction and the invovled condtion(s). A Responsible Agency may be related to the jurisdicion of the patient's home and / or the agency for the location of the provider facility. The Primary Responsible Agency indicates which Responsible Agency is the lead for contact, follow-up, and supplemental reporting.

The organizer contains the Responsible Agency participant(s), the Authoring Agency participant(s) (the agency who authored the decision support rules), and the Routing Entity participant(s) (the entity(ies) to which the eICR CDA document is next sent).

Also contained in this template are the Determination of Reportability, Reporting Timeframe, and External Resources templates.

Table 85: Reportability Information Organizer Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
organizer (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.13:2017-04-01)					
@classCode	1..1	SHALL		3315-241	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = CLUSTER
@moodCode	1..1	SHALL		3315-242	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-237	
@root	1..1	SHALL		3315-239	2.16.840.1.113883.10.20.15.2.3.13
@extension	1..1	SHALL		3315-240	2017-04-01
Code	1..1	SHALL		3315-581	urn:oid:2.16.840.1.113883.10.20.15.2.5.6 (Location Relevance)
Qualifier	0..1	MAY		3315-593	
Value	1..1	SHALL		3315-594	
@code	1..1	SHALL		3315-595	63161005
@codeSystem	1..1	SHALL		3315-596	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
statusCode	1..1	SHALL		3315-245	
@code	1..1	SHALL		3315-246	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
Participant	1..1	SHALL		3315-338	Responsible Agency (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.2:2017-04-01
Participant	1..1	SHALL		3315-429	Authoring Agency (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.3:2017-04-01
Participant	0..1	MAY		3315-543	Routing Entity (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.1:2017-04-01
Component	1..1	SHALL		3315-238	
Observation	1..1	SHALL		3315-329	Determination of Reportability (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.19:2017-04-01
Component	0..1	SHOULD		3315-326	
Observation	1..1	SHALL		3315-330	Reporting Timeframe (identifier: urn:hl7ii:2.16.840.1.113883.10.

					20.15.2.3.14:2017-04-01
Component	0..*	SHOULD		3315-328	
Act	1..1	SHALL		3315-453	External Resources (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.20:2017-04-01

1. **SHALL** contain exactly one [1..1] **@classCode**="CLUSTER" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3315-241).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3315-242).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-237) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.13" (CONF:3315-239).
   b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-240).
4. **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet **Location Relevance** urn:oid:2.16.840.1.113883.10.20.15.2.5.6 **DYNAMIC** (CONF:3315-581).

If the Primary qualifier is present it signifies that the contained responsible agency is the primary responsible agency for this condition.

   a. This code **MAY** contain zero or one [0..1] **qualifier** (CONF:3315-593).
      i. The qualifier, if present, **SHALL** contain exactly one [1..1] **value** (CONF:3315-594).
         1. This value **SHALL** contain exactly one [1..1] **@code**="63161005" Primary (qualifier) (CONF:3315-595).
         2. This value **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:3315-596).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:3315-245).
   a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:3315-246).

The following participant contains information about the responsible agency.

6. **SHALL** contain exactly one [1..1] **Responsible Agency** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.2:2017-04-01) (CONF:3315-338).

The following participant contains information about the authoring agency.

7. **SHALL** contain exactly one [1..1] **Authoring Agency** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.3:2017-04-01) (CONF:3315-429).

The following participant contains information about the routing entity.

8. **MAY** contain zero or one [0..1] **Routing Entity** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.1:2017-04-01) (CONF:3315-543).
9. **SHALL** contain exactly one [1..1] **component** (CONF:3315-238) such that it

a. **SHALL** contain exactly one [1..1] **Determination of Reportability** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.19:2017-04-01) (CONF:3315-329).

10. **SHOULD** contain zero or one [0..1] **component** (CONF:3315-326) such that it

a. **SHALL** contain exactly one [1..1] **Reporting Timeframe** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.14:2017-04-01) (CONF:3315-330).

11. **SHOULD** contain zero or more [0..*] **component** (CONF:3315-328) such that it

a. **SHALL** contain exactly one [1..1] **External Resources** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.20:2017-04-01) (CONF:3315-453).

Table 86: Location Relevance

Value Set: Location Relevance urn:oid:2.16.840.1.113883.10.20.15.2.5.6			
This valueset contains codes to indicate the location because of which the responsible agency is relevant.			
Code	**Code System**	**Code System OID**	**Print Name**
TEMP_CODE_PATIENT_HOME	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Patient home address
TEMP_CODE_PROVIDER_LOCATION	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Provider facility address
TEMP_CODE_BOTH	PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274	Both patient home address and provider facility address

Figure 48: Reportability Information Organizer Example

```xml
<organizer classCode="CLUSTER" moodCode="EVN">
    <!-- [RR R1S1] Reportability Information Organizer: Both Home and Provider -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.13" extension="2017-04-01" />
    <id root="fcf92143-4289-450e-9550-8d574facf626" />
    <!-- Relevant location (home, provider, or both) -->
    <code code="TEMP_CODE_BOTH" codeSystem="2.16.840.1.114222.4.5.274" codeSystemName="PHIN
VS (CDC Local Coding System)"
        displayName="Both patient home address and provider facility address">
        <!-- The presence of the qualifier signifies that the contained responsible agency
is the primary responsible agency for this condition -->
        <qualifier>
            <value code="63161005" displayName="Primary (qualifier)"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" />
        </qualifier>
    </code>
    <statusCode code="completed" />
    <!-- Responsible Agency: Utah Department of Health -->
    <!-- In this case the responsible agency is the same as the authoring agency -->
    <participant typeCode="LOC">
        <!-- [RR R1S1] Responsible Agency -->
        <templateId root="2.16.840.1.113883.10.20.15.2.4.2" extension="2017-04-01" />
        ...
    </participant>
    <!-- Authoring Agency: Utah Department of Health -->
    <!-- In this case the authoring agency is the same as the responsible agency -->
    <participant typeCode="LOC">
        <!-- [RR R1S1] Authoring Agency -->
        <templateId root="2.16.840.1.113883.10.20.15.2.4.3" extension="2017-04-01" />
        ...
    </participant>
    <!-- Routing Entity: Utah Department of Health -->
    <!-- The routing entity is optional -->
    <participant typeCode="LOC">
        <!-- [RR R1S1] Routing Agency -->
        <templateId root="2.16.840.1.113883.10.20.15.2.4.1" extension="2017-04-01" />
        ...
    </participant>
    <!-- Determination of Reportability: Zika/UT -->
    <component typeCode="COMP">
        <observation classCode="OBS" moodCode="EVN">
            <!-- [RR R1S1] Determination of Reportability -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.19" extension="2017-04-01" />
            ...
        </observation>
    </component>
    <!-- Reporting Timeframe: Zika/UT -->
    <component typeCode="COMP">
        <observation classCode="OBS" moodCode="EVN">
            <!-- [RR R1S1] Reporting Timeframe-->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.14" extension="2017-04-01" />
            ...
        </observation>
    </component>
    <!-- External Resources: additional reporting needs -->
    <component typeCode="COMP">
```

```
        <act classCode="ACT" moodCode="EVN">
            <!-- [RR R1S1] External Resources -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.20" extension="2017-04-01" />
            ...
        </act>
    </component>
    <!-- External Resources: Treatment and/or prevention -->
    <component typeCode="COMP">
        <act classCode="ACT" moodCode="EVN">
            <!-- [RR R1S1] External Resources -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.20" extension="2017-04-01" />
            ...
        </act>
    </component>
    <!-- External Resources: Additional resources -->
    <!-- This act contains additional external references for Zika
         The references in this act should be rendered LAST and merged with references
         in any other acts with code="TEMP_CODE_ADD_RESOURCES" contained in this document -
->
    <component typeCode="COMP">
        <act classCode="ACT" moodCode="EVN">
            <!-- [RR R1S1] External Resources -->
            <templateId root="2.16.840.1.113883.10.20.15.2.3.20" extension="2017-04-01" />
            ...
        </act>
    </component>
</organizer>
```

3.19 Reportability Response Priority

```
[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.30:2017-04-
01 (open)]

Draft as part of Reportability Response
```

Table 87: Reportability Response Priority Contexts

Contained By:	Contains:
Reportability Response Summary Section (required)	

This template represents a priority for the Reportabilty Response CDA document overall. It has been calcuated from the highest priority assigned to external resources in the reportability determination. This "document"-level priority should be used for EHR workflow including notification, alerting, routing and queueing (see Volume 4).

Table 88: Reportability Response Priority Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.30:2017-04-01)					
@classCode	1..1	SHALL		3315-605	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3315-606	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-602	
@root	1..1	SHALL		3315-607	2.16.840.1.113883.10.20.15.2.3.30
@extension	1..1	SHALL		3315-612	2017-04-01
Code	1..1	SHALL		3315-603	
@code	1..1	SHALL		3315-609	TEMP_CODE_REPORTABILITY_PRIORITY
@codeSystem	1..1	SHALL		3315-610	urn:oid:2.16.840.1.114222.4.5.274 (PHIN VS (CDC Local Coding System)) = 2.16.840.1.114222.4.5.274
value	1..1	SHALL	CD	3315-611	urn:oid:2.16.840.1.113883.10.20.15.2.5.5 (Reportability Priority)

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3315-605).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3315-606).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-602) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.30" (CONF:3315-607).
   b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-612).
4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-603).
   a. This code **SHALL** contain exactly one [1..1] **@code**="TEMP_CODE_REPORTABILITY_PRIORITY" Reportability Priority (CONF:3315-609).
   b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.114222.4.5.274" (CodeSystem: PHIN VS (CDC Local Coding System) urn:oid:2.16.840.1.114222.4.5.274) (CONF:3315-610).
5. **SHALL** contain exactly one [1..1] **value** with @xsi:type="CD", where the code **SHALL** be selected from ValueSet **Reportability Priority** urn:oid:2.16.840.1.113883.10.20.15.2.5.5 **DYNAMIC** (CONF:3315-611).

Figure 49: Priority Preference Example

```
<observation classCode="OBS" moodCode="EVN">
    <!-- [RR R1S1] Reportability Response Priority -->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.30" extension="2017-04-01" />
    <code code="TEMP_CODE_REPORTABILITY_PRIORITY"
        codeSystem="2.16.840.1.114222.4.5.274"
        codeSystemName="PHIN VS (CDC Local Coding System)"
        displayName="Reportability response priority" />
    <value xsi:type="CD" code="TEMP_CODE_ACTION_REQUIRED"
        displayName="Action required"
        codeSystem="2.16.840.1.114222.4.5.274"
        codeSystemName="PHIN VS (CDC Local Coding System)" />
</observation>
```

3.20 Reporting Timeframe

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.14:2017-04-01 (open)]

Draft as part of Reportability Response

Table 89: Reporting Timeframe Contexts

Contained By:	Contains:
Reportability Information Organizer (optional)	

This template represents the timeframe in which the receiver should take the actions specified.

Table 90: Reporting Timeframe Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.14:2017-04-01)					
@classCode	1..1	SHALL		3315-256	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3315-257	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3315-249	
@root	1..1	SHALL		3315-251	2.16.840.1.113883.10.20.15.2.3.14
@extension	1..1	SHALL		3315-252	2017-04-01
code	1..1	SHALL		3315-250	
@code	1..1	SHALL		3315-253	TEMP_CODE_TIMEFRAME
@codeSystem	1..1	SHALL		3315-254	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
value	1..1	SHALL		3315-255	

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3315-256).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3315-257).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-249) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.3.14" (CONF:3315-251).
   b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-252).
4. **SHALL** contain exactly one [1..1] **code** (CONF:3315-250).
   a. This code **SHALL** contain exactly one [1..1] **@code**="TEMP_CODE_TIMEFRAME" Timeframe to report (urgency) (CONF:3315-253).
   b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3315-254).
5. **SHALL** contain exactly one [1..1] **value** (CONF:3315-255).

Figure 50: Reporting Timeframe Example

```
<observation classCode="OBS" moodCode="EVN">
    <!-- [RR R1S1] Reporting Timeframe-->
    <templateId root="2.16.840.1.113883.10.20.15.2.3.14" extension="2017-04-01" />
    <id root="8334d0bd-a404-4e12-9e9c-e278669e59ba" />
    <code code="TEMP_CODE_TIMEFRAME"
        codeSystem="2.16.840.1.113883.6.1"
        codeSystemName="LOINC"
        displayName="Timeframe to report (urgency)" />
    <value xsi:type="CD" code="TEMP_CODE_24_HOURS"
        codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT"
        displayName="Within 24 hours" />
</observation>
```

4   PARTICIPATION AND OTHER TEMPLATES

4.1   Authoring Agency

```
[participant: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.3:2017-04-
01 (open)]
```

Draft as part of Reportability Response

Table 91: Authoring Agency Contexts

Contained By:	Contains:
Reportability Information Organizer (required)	

This template represents the Authoring Agency. The Authoring Agency creates reporting specifications in a public health decision support system. In the majority of cases the Authoring Agency will be the same as the Responsible Agency, but, at times a Local Public Health Agency may inherit rules from its State agency - if the Local agency has not written its own rules.

Table 92: Authoring Agency Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
participant (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.3:2017-04-01)					
@typeCode	1..1	SHALL		3315-428	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = LOC
templateId	1..1	SHALL		3315-415	
@root	1..1	SHALL		3315-419	2.16.840.1.113883.10.20.15.2.4.3
@extension	1..1	SHALL		3315-420	2017-04-01
participantRole	1..1	SHALL		3315-416	
Id	0..*	MAY		3315-425	
Code	1..1	SHALL		3315-417	
@code	1..1	SHALL		3315-421	TEMP_CODE_AUTHORING_AGENCY
@codeSystem	0..1	MAY		3315-422	urn:oid:2.16.840.1.114222.4.5.274 (PHIN VS (CDC Local Coding System)) = 2.16.840.1.114222.4.5.274
Addr	0..*	SHOULD		3315-426	
Telecom	0..*	SHOULD		3315-427	
playingEntity	1..1	SHALL		3315-418	
Code	1..1	SHALL		3315-592	
Name	1..1	SHALL		3315-423	
Desc	0..1	MAY		3315-424	

1. **SHALL** contain exactly one [1..1] **@typeCode**="LOC" Location (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3315-428).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-415) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.4.3" (CONF:3315-419).
   b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-420).
3. **SHALL** contain exactly one [1..1] **participantRole** (CONF:3315-416).
   a. This participantRole **MAY** contain zero or more [0..*] **id** (CONF:3315-425).

b. This participantRole **SHALL** contain exactly one [1..1] **code** (CONF:3315-417).
    i. This code **SHALL** contain exactly one [1..1]
       @code="TEMP_CODE_AUTHORING_AGENCY" Authoring Agency (CONF:3315-421).
    ii. This code **MAY** contain zero or one [0..1]
       @codeSystem="2.16.840.1.114222.4.5.274" (CodeSystem: PHIN VS (CDC Local Coding System) urn:oid:2.16.840.1.114222.4.5.274) (CONF:3315-422).
c. This participantRole **SHOULD** contain zero or more [0..*] **addr** (CONF:3315-426).
d. This participantRole **SHOULD** contain zero or more [0..*] **telecom** (CONF:3315-427).
e. This participantRole **SHALL** contain exactly one [1..1] **playingEntity** (CONF:3315-418).
    i. This playingEntity **SHALL** contain exactly one [1..1] **code** (CONF:3315-592).
       Note: Authoring agency (jurisdiction) code
    ii. This playingEntity **SHALL** contain exactly one [1..1] **name** (CONF:3315-423).
       Note: Authoring agency name
    iii. This playingEntity **MAY** contain zero or one [0..1] **desc** (CONF:3315-424).
       Note: Authoring agency description

```
<participant typeCode="LOC">
    <!-- [RR R1S1] Authoring Agency -->
    <templateId root="2.16.840.1.113883.10.20.15.2.4.3" extension="2017-04-01" />
    <!-- If the responsible and authoring agencies are the same
         then they will have the same identifying and contact details -->
    <participantRole>
        <id extension="12341234" root="2.16.840.1.113883.4.6" />
        <code code="TEMP_CODE_AUTHORING_AGENCY"
            displayName="Authoring Agency"
            codeSystem="2.16.840.1.114222.4.5.274"
            codeSystemName="PHIN VS (CDC Local Coding System)" />
        <addr use="WP">
            <streetAddressLine>7777 Health Authority Drive</streetAddressLine>
            <city>Ann Arbor</city>
            <state>MI</state>
            <postalCode>99999</postalCode>
        </addr>
        <telecom use="WP" value="tel:+1-555-555-3555" />
        <telecom use="WP" value="fax:+1-955-555-3555" />
        <telecom use="WP" value="mailto:mail@healthauthoritywest.gov" />
        <telecom use="WP" value="https://www.healthauthoritywest.gov" />
        <playingEntity>
            <code code="MI"
                  codeSystem="2.16.840.1.113883.6.92"
                  codeSystemName="FIPS 5-2 (State)"
                  displayName="Michigan" />
            <name>Health Authority West</name>
            <desc>Authoring Agency Description</desc>
        </playingEntity>
    </participantRole>
</participant>
```

4.2 Responsible Agency

```
[participant: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.2:2017-04-
01 (open)]

Draft as part of Reportability Response
```

Table 93: Responsible Agency Contexts

Contained By:	Contains:
[Reportability Information Organizer](#) (required)	

This template includes the Responsible Public Health Agency(ies) to whom there is a legal reporting requirement. These may include the agency for the jurisdiction in which care was provided and/or the agency for the jurisdiction where the patient lives. The Primary Responsible Agency is the agency that is the lead for contact, follow-up, and supplemental reporting.

The Primary Responsible Agency for the condition will be signified by the code/qualifier element in the containing Reporting Information Organizer template.

Table 94: Responsible Agency Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
participant (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.2:2017-04-01)					
@typeCode	1..1	SHALL		3315-407	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = LOC
templateId	1..1	SHALL		3315-401	
@root	1..1	SHALL		3315-405	2.16.840.1.113883.10.20.15.2.4.2
@extension	1..1	SHALL		3315-406	2017-04-01
participantRole	1..1	SHALL		3315-402	
Id	0..*	MAY		3315-412	
Code	1..1	SHALL		3315-403	
@code	1..1	SHALL		3315-408	TEMP_CODE_RESPONSIBLE_AGENCY
@codeSystem	1..1	SHALL		3315-409	urn:oid:2.16.840.1.114222.4.5.274 (PHIN VS (CDC Local Coding System)) = 2.16.840.1.114222.4.5.274
addr	0..*	SHOULD		3315-413	
telecom	0..*	SHOULD		3315-414	
playingEntity	1..1	SHALL		3315-404	
code	1..1	SHALL		3315-590	
name	1..1	SHALL		3315-410	
desc	0..1	MAY		3315-411	

1. **SHALL** contain exactly one [1..1] **@typeCode**="LOC" Location (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3315-407).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-401) such that it
    a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.4.2" (CONF:3315-405).
    b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-406).

3. **SHALL** contain exactly one [1..1] **participantRole** (CONF:3315-402).
    a. This participantRole **MAY** contain zero or more [0..*] **id** (CONF:3315-412).
    b. This participantRole **SHALL** contain exactly one [1..1] **code** (CONF:3315-403).
        i.   This code **SHALL** contain exactly one [1..1] **@code**="TEMP_CODE_RESPONSIBLE_AGENCY" Responsible Agency (CONF:3315-408).
        ii. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.114222.4.5.274" (CodeSystem: PHIN VS (CDC Local Coding System) urn:oid:2.16.840.1.114222.4.5.274) (CONF:3315-409).
    c. This participantRole **SHOULD** contain zero or more [0..*] **addr** (CONF:3315-413).
    d. This participantRole **SHOULD** contain zero or more [0..*] **telecom** (CONF:3315-414).
    e. This participantRole **SHALL** contain exactly one [1..1] **playingEntity** (CONF:3315-404).
        i.   This playingEntity **SHALL** contain exactly one [1..1] **code** (CONF:3315-590). Note: Responsible agency (jurisdiction) code
        ii. This playingEntity **SHALL** contain exactly one [1..1] **name** (CONF:3315-410). Note: Responsible agency name
        iii. This playingEntity **MAY** contain zero or one [0..1] **desc** (CONF:3315-411). Note: Responsible agency description

Figure 52: Responsible Agency Example

```
<participant typeCode="LOC">
    <!-- [RR R1S1] Responsible Agency -->
    <templateId root="2.16.840.1.113883.10.20.15.2.4.2" extension="2017-04-01" />
    <!-- If the responsible and authoring agencies are the same
         then they will have the same identifying and contact details -->
    <participantRole>
        <id extension="12341234" root="2.16.840.1.113883.4.6" />
        <code code="TEMP_CODE_RESPONSIBLE_AGENCY"
            displayName="Responsible Agency"
            codeSystem="2.16.840.1.114222.4.5.274"
            codeSystemName="PHIN VS (CDC Local Coding System)"> </code>
        <addr use="WP">
            <streetAddressLine>7777 Health Authority Drive</streetAddressLine>
            <city>Ann Arbor</city>
            <state>MI</state>
            <postalCode>99999</postalCode>
        </addr>
        <telecom use="WP" value="tel:+1-555-555-3555" />
        <telecom use="WP" value="fax:+1-955-555-3555" />
        <telecom use="WP" value="mailto:mail@healthauthoritywest.gov" />
        <telecom use="WP" value="https://www.healthauthoritywest.gov" />
        <playingEntity>
            <code code="MI"
                codeSystem="2.16.840.1.113883.6.92"
                codeSystemName="FIPS 5-2 (State)"
                displayName="Michigan" />
            <name>Health Authority West</name>
            <desc>Responsible Agency Description</desc>
        </playingEntity>
    </participantRole>
</participant>
```

4.3   Routing Entity

```
[participant: identifier urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.1:2017-04-
01 (open)]
```

```
Draft as part of Reportability Response
```

Table 95: Routing Entity Contexts

Contained By:	Contains:
[Reportability Information Organizer](#) (optional)	

This template represents the Routing Entity. This template will be present if a public health intermediary needs to directly send an eICR CDA document to someone other than the Responsible Agency. In most cases, the Routing Entity, if present, would be either a Health Information Exchange (HIE) or a Public Health Agency with the capability to send and receive CDA documents and acts on behalf of the Responsible Agency.

Table 96: Routing Entity Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
participant (identifier: urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.1:2017-04-01)					
@typeCode	1..1	SHALL		3315-388	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = LOC
templateId	1..1	SHALL		3315-387	
@root	1..1	SHALL		3315-389	2.16.840.1.113883.10.20.15.2.4.1
@extension	1..1	SHALL		3315-390	2017-04-01
participantRole	1..1	SHALL		3315-391	
id	0..*	MAY		3315-394	
code	1..1	SHALL		3315-392	
@code	1..1	SHALL		3315-395	TEMP_CODE_ROUTING_ENTITY
@codeSystem	0..1	MAY		3315-396	urn:oid:2.16.840.1.114222.4.5.274 (PHIN VS (CDC Local Coding System)) = 2.16.840.1.114222.4.5.274
addr	0..*	SHOULD		3315-397	
telecom	0..*	SHOULD		3315-398	
playingEntity	1..1	SHALL		3315-393	
code	1..1	SHALL		3315-591	
name	1..1	SHALL		3315-399	
desc	0..1	MAY		3315-400	

1. **SHALL** contain exactly one [1..1] **@typeCode**="LOC" Location (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3315-388).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:3315-387) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.15.2.4.1" (CONF:3315-389).
   b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3315-390).
3. **SHALL** contain exactly one [1..1] **participantRole** (CONF:3315-391).
   a. This participantRole **MAY** contain zero or more [0..*] **id** (CONF:3315-394).

b. This participantRole **SHALL** contain exactly one [1..1] **code** (CONF:3315-392).

  i. This code **SHALL** contain exactly one [1..1] **@code**="TEMP_CODE_ROUTING_ENTITY" Routing Entity (CONF:3315-395).

  ii. This code **MAY** contain zero or one [0..1] **@codeSystem**="2.16.840.1.114222.4.5.274" (CodeSystem: PHIN VS (CDC Local Coding System) urn:oid:2.16.840.1.114222.4.5.274) (CONF:3315-396).

c. This participantRole **SHOULD** contain zero or more [0..*] **addr** (CONF:3315-397).

d. This participantRole **SHOULD** contain zero or more [0..*] **telecom** (CONF:3315-398).

e. This participantRole **SHALL** contain exactly one [1..1] **playingEntity** (CONF:3315-393).

  i. This playingEntity **SHALL** contain exactly one [1..1] **code** (CONF:3315-591). Note: Routing entity (jurisdiction) code

  ii. This playingEntity **SHALL** contain exactly one [1..1] **name** (CONF:3315-399). Note: Routing entity name

  iii. This playingEntity **MAY** contain zero or one [0..1] **desc** (CONF:3315-400). Note: Routing entity description

Figure 53: Routing Entity Example

```
<participant typeCode="LOC">
    <!-- [RR R1S1] Routing Agency -->
    <templateId root="2.16.840.1.113883.10.20.15.2.4.1" extension="2017-04-01" />
    <participantRole>
        <id extension="43214321" root="2.16.840.1.113883.4.6" />
        <code code="TEMP_CODE_ROUTING_ENTITY"
            displayName="Routing Entity"
            codeSystem="2.16.840.1.114222.4.5.274"
            codeSystemName="PHIN VS (CDC Local Coding System)" />
        <addr use="WP">
            <streetAddressLine>7777 Health Authority Drive</streetAddressLine>
            <city>Ann Arbor</city>
            <state>MI</state>
            <postalCode>99999</postalCode>
        </addr>
        <telecom use="WP" value="tel:+1-555-555-3555" />
        <telecom use="WP" value="fax:+1-955-555-3555" />
        <telecom use="WP" value="mailto:mail@healthauthoritywest.gov" />
        <telecom use="WP" value="https://www.healthauthoritywest.gov" />
        <playingEntity>
            <code code="MI"
                codeSystem="2.16.840.1.113883.6.92"
                codeSystemName="FIPS 5-2 (State)"
                displayName="Michigan" />
            <name>Health Authority West Routing Entity</name>
            <desc>Routing Entity Description</desc>
        </playingEntity>
    </participantRole>
</participant>
```

4.4 US Realm Address (AD.US.FIELDED)

```
[addr: identifier urn:oid:2.16.840.1.113883.10.20.22.5.2 (open)]
```

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Table 97: US Realm Address (AD.US.FIELDED) Contexts

Contained By:	Contains:
US Realm Header (V3) (required)	
Reportability Response Document (RR) (required)	

Reusable address template, for use in US Realm CDA Header.

Table 98: US Realm Address (AD.US.FIELDED) Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
addr (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)					
@use	0..1	SHOULD		81-7290	urn:oid:2.16.840.1.113883.1.11.10637 (PostalAddressUse)
Country	0..1	SHOULD		81-7295	urn:oid:2.16.840.1.113883.3.88.12.80.63 (Country)
State	0..1	SHOULD		81-7293	urn:oid:2.16.840.1.113883.3.88.12.80.1 (StateValueSet)
City	1..1	SHALL		81-7292	
postalCode	0..1	SHOULD		81-7294	urn:oid:2.16.840.1.113883.3.88.12.80.2 (PostalCode)
streetAddressLine	1..1	SHALL		81-7291	

1. **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet **PostalAddressUse** urn:oid:2.16.840.1.113883.1.11.10637 **STATIC** 2005-05-01 (CONF:81-7290).
2. **SHOULD** contain zero or one [0..1] **country**, which **SHALL** be selected from ValueSet **Country** urn:oid:2.16.840.1.113883.3.88.12.80.63 **DYNAMIC** (CONF:81-7295).
3. **SHOULD** contain zero or one [0..1] **state** (ValueSet: **StateValueSet** urn:oid:2.16.840.1.113883.3.88.12.80.1 **DYNAMIC**) (CONF:81-7293).
   a. State is required if the country is US. If country is not specified, it's assumed to be US. If country is something other than US, the state **MAY** be present but **MAY** be bound to different vocabularies (CONF:81-10024).
4. **SHALL** contain exactly one [1..1] **city** (CONF:81-7292).
5. **SHOULD** contain zero or one [0..1] **postalCode**, which **SHOULD** be selected from ValueSet **PostalCode** urn:oid:2.16.840.1.113883.3.88.12.80.2 **DYNAMIC** (CONF:81-7294).

a. PostalCode is required if the country is US. If country is not specified, it's assumed to be US. If country is something other than US, the postalCode **MAY** be present but **MAY** be bound to different vocabularies (CONF:81-10025).

6. **SHALL** contain exactly one [1..1] `streetAddressLine` (CONF:81-7291).

7. **SHALL NOT** have mixed content except for white space (CONF:81-7296).

Table 99: PostalAddressUse

Value Set: PostalAddressUse urn:oid:2.16.840.1.113883.1.11.10637
A value set of HL7 Codes for address use.
Value Set Source: **https://vsac.nlm.nih.gov/**

Code	Code System	Code System OID	Print Name
BAD	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	bad address
CONF	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	confidential
DIR	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	direct
H	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	home address
HP	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	primary home
HV	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	vacation home
PHYS	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	physical visit address
PST	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	postal address
PUB	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	public
TMP	HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119	temporary
...			

Table 100: StateValueSet

Code	Code System	Code System OID	Print Name
Value Set: StateValueSet urn:oid:2.16.840.1.113883.3.88.12.80.1 Identifies addresses within the United States are recorded using the FIPS 5-2 two-letter alphabetic codes for the State, District of Columbia, or an outlying area of the United States or associated area Value Set Source: **http://www.census.gov/geo/reference/ansi statetables.html**			
AL	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Alabama
AK	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Alaska
AZ	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Arizona
AR	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Arkansas
CA	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	California
CO	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Colorado
CT	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Connecticut
DE	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Delaware
DC	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	District of Columbia
FL	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Florida
...			

Figure 54: US Realm Address Example

```
<addr use="HP">
    <streetAddressLine>22 Sample Street</streetAddressLine>
    <city>Beaverton</city>
    <state>OR</state>
    <postalCode>97867</postalCode>
    <country>US</country>
</addr>
```

4.5   US Realm Date and Time (DTM.US.FIELDED)

[effectiveTime: identifier urn:oid:2.16.840.1.113883.10.20.22.5.4 (open)]

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Table 101: US Realm Date and Time (DTM.US.FIELDED) Contexts

Contained By:	Contains:
US Realm Header (V3) (required) Reportability Response Document (RR) (required)	

The US Realm Clinical Document Date and Time datatype flavor records date and time information. If no time zone offset is provided, you can make no assumption about time, unless you have made a local exchange agreement.

This data type uses the same rules as US Realm Date and Time (DT.US.FIELDED), but is used with elements having a datatype of TS.

Table 102: US Realm Date and Time (DTM.US.FIELDED) Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
effectiveTime (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4)					

1. **SHALL** be precise to the day (CONF:81-10127).

2. **SHOULD** be precise to the minute (CONF:81-10128).

3. **MAY** be precise to the second (CONF:81-10129).

4. If more precise than day, **SHOULD** include time-zone offset (CONF:81-10130).

Figure 55: US Realm Date and Time Example

```
<!-- Common values for date/time elements would range in precision to the day YYYYMMDD to
precision to the second with a time zone offset YYYYMMDDHHMMSS - ZZzz -->
<!-- time element with TS data type precise to the day for a birthdate -->
<time value="19800531"/>
<!-- effectiveTime element with IVL<TS> data type precise to the second for an observation
-->
<effectiveTime>
    <low value='20110706122735-0800'/>
    <high value='20110706122815-0800'/>
</effectiveTime>
```

4.6 US Realm Person Name (PN.US.FIELDED)

[name: identifier urn:oid:2.16.840.1.113883.10.20.22.5.1.1 (open)]

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DSTU R1.1

Table 103: US Realm Person Name (PN.US.FIELDED) Contexts

Contained By:	Contains:
US Realm Header (V3) (required) Reportability Response Document (RR) (required)	

The US Realm Clinical Document Person Name datatype flavor is a set of reusable constraints that can be used for Persons.

Table 104: US Realm Person Name (PN.US.FIELDED) Constraints Overview

XPath	Card.	Verb	Data Type	CONF #	Value
name (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1)					
name	1..1	SHALL		81-9368	

1. **SHALL** contain exactly one [1..1] **name** (CONF:81-9368).
    a. The content of name **SHALL** be either a conformant Patient Name (PTN.US.FIELDED), or a string (CONF:81-9371).
    b. The string **SHALL NOT** contain name parts (CONF:81-9372).

5 TEMPLATE IDS IN THIS GUIDE

Table 105: Template List

Template Title	Template Type	templateId
Reportability Response Document (RR)	Document	urn:hl7ii:2.16.840.1.113883.10.20.15.2.1.2:2017-04-01
US Realm Header (V3)	Document	urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2015-08-01
Electronic Initial Case Report Section	Section	urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.3:2017-04-01
Reportability Response Coded Information Section	Section	urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.4:2017-04-01
Reportability Response Subject Section	Section	urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.1:2017-04-01
Reportability Response Summary Section	Section	urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.2:2017-04-01
Determination of Reportability	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.19:2017-04-01
Determination of Reportability Reason	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.26:2017-03-01
Determination of Reportability Rule	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.27:2017-04-01
eICR External Document Reference	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.10:2017-04-01
eICR Processing Error Reason	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.21:2017-04-01
eICR Processing Status	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.29:2017-04-01
eICR Processing Warning Reason	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.31:2017-04-01
Expected RCTC Version	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.24:2017-04-01
External Document Reference	Entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.115:2014-06-09
External Reference	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.17:2017-04-01
External Resources	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.20:2017-04-01
Inactive RCTC Code	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.25:2017-04-01
Initial Case Report Manual Initiation Reason Observation	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.5:2016-12-01
Instruction (V2)	Entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09
Manually Initiated eICR	Entry	urn:hl7ii:2.16.840.1.113883.10.20.

Template Title	Template Type	templateId
		15.2.3.22:2017-04-01
Outdated RCTC Version	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.23:2017-04-01
Possible Reportable Condition Observation	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.12:2017-04-01
Problem Observation (V3)	Entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2015-08-01
Received eICR Information	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.9:2017-04-01
Reportability Information Organizer	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.13:2017-04-01
Reportability Response Priority	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.30:2017-04-01
Reportability Response Subject	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.7:2017-04-01
Reportability Response Summary	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.8:2017-04-01
Reporting Timeframe	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.14:2017-04-01
Authoring Agency	Unspecified	urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.3:2017-04-01
Responsible Agency	Unspecified	urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.2:2017-04-01
Routing Entity	Unspecified	urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.1:2017-04-01
US Realm Address (AD.US.FIELDED)	Unspecified	urn:oid:2.16.840.1.113883.10.20.22.5.2
US Realm Date and Time (DTM.US.FIELDED)	Unspecified	urn:oid:2.16.840.1.113883.10.20.22.5.4
US Realm Person Name (PN.US.FIELDED)	Unspecified	urn:oid:2.16.840.1.113883.10.20.22.5.1.1

Table 106: Template Containments

Template Title	Template Type	templateId
Reportability Response Document (RR)	Document	urn:hl7ii:2.16.840.1.113883.10.20.15.2.1.2:2017-04-01
Electronic Initial Case Report Section	Section	urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.3:2017-04-01
eICR Processing Status	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.29:2017-04-01
eICR Processing Error Reason	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.21:2017-04-01
eICR Processing Warning Reason	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.31:2017-04-01
Inactive RCTC Code	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.25:2017-04-01
Manually Initiated eICR	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.22:2017-04-01
Initial Case Report Manual Initiation Reason Observation	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.5:2016-12-01
Outdated RCTC Version	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.23:2017-04-01
Expected RCTC Version	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.24:2017-04-01
Received eICR Information	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.9:2017-04-01
eICR External Document Reference	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.10:2017-04-01
Reportability Response Subject Section	Section	urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.1:2017-04-01
Reportability Response Subject	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.7:2017-04-01
Reportability Response Summary Section	Section	urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.2:2017-04-01
Reportability Response Coded Information Section	Section	urn:hl7ii:2.16.840.1.113883.10.20.15.2.2.4:2017-04-01
Possible Reportable Condition Observation	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.12:2017-04-01
External Resources	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.20:2017-04-01
External Reference	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.17:2017-04-01
Reportability Information Organizer	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.13:2017-04-01
Authoring Agency	Unspecified	urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.3:2017-04-01
Determination of Reportability	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.19:2017-04-01

Template Title	Template Type	templateId
Determination of Reportability Reason	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.26:2017-03-01
Determination of Reportability Rule	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.27:2017-04-01
External Resources	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.20:2017-04-01
External Reference	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.17:2017-04-01
Reporting Timeframe	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.14:2017-04-01
Responsible Agency	unspecified	urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.2:2017-04-01
Routing Entity	unspecified	urn:hl7ii:2.16.840.1.113883.10.20.15.2.4.1:2017-04-01
Reportability Response Priority	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.30:2017-04-01
Reportability Response Summary	Entry	urn:hl7ii:2.16.840.1.113883.10.20.15.2.3.8:2017-04-01
US Realm Address (AD.US.FIELDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.22.5.2
US Realm Date and Time (DTM.US.FIELDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.22.5.4
US Realm Person Name (PN.US.FIELDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.22.5.1.1
US Realm Header (V3)	document	urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2015-08-01
US Realm Address (AD.US.FIELDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.22.5.2
US Realm Date and Time (DTM.US.FIELDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.22.5.4
US Realm Person Name (PN.US.FIELDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.22.5.1.1

6   VALUE SETS IN THIS GUIDE

Table 107: Value Sets

Name	OID	URL
ActEncounterCode	urn:oid:2.16.840.1.113883.1.11.13955	http://www.hl7.org
Administrative Gender (HL7 V3)	urn:oid:2.16.840.1.113883.1.11.1	https://vsac.nlm.nih.gov/
Country	urn:oid:2.16.840.1.113883.3.88.12.80.63	http://www.iso.org/iso/country_codes/iso_3166_code_lists.htm
Detailed Ethnicity	urn:oid:2.16.840.1.114222.4.11.877	https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.877
Determination of Reportability	urn:oid:2.16.840.1.113883.10.20.15.2.5.3	N/A
eICR Processing Error Reason	urn:oid:2.16.840.1.113883.10.20.15.2.5.7	N/A
eICR Processing Status	urn:oid:2.16.840.1.113883.10.20.15.2.5.8	N/A
eICR Processing Warning Reason	urn:oid:2.16.840.1.113883.10.20.15.2.5.10	N/A
Ethnicity	urn:oid:2.16.840.1.114222.4.11.837	https://vsac.nlm.nih.gov/
External Resource Type	urn:oid:2.16.840.1.113883.10.20.15.2.5.4	N/A
Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.114222.4.11.1066	https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.1066
HL7 BasicConfidentialityKind	urn:oid:2.16.840.1.113883.1.11.16926	https://vsac.nlm.nih.gov/
INDRoleclassCodes	urn:oid:2.16.840.1.113883.11.20.9.33	https://vsac.nlm.nih.gov/
Language	urn:oid:2.16.840.1.113883.1.11.11526	http://www.loc.gov/standards/iso639-2/php/code_list.php
LanguageAbilityMode	urn:oid:2.16.840.1.113883.1.11.12249	https://vsac.nlm.nih.gov/
LanguageAbilityProficiency	urn:oid:2.16.840.1.113883.1.11.12199	https://vsac.nlm.nih.gov/
Location Relevance	urn:oid:2.16.840.1.113883.10.20.15.2.5.6	N/A
Marital Status	urn:oid:2.16.840.1.113883.1.11.12212	https://vsac.nlm.nih.gov/
ParticipationFunction	urn:oid:2.16.840.1.113883.1.11.10267	https://vsac.nlm.nih.gov/
Patient Education	urn:oid:2.16.840.1.113883.11.20.9.34	https://vsac.nlm.nih.gov/

Name	OID	URL
Personal And Legal Relationship Role Type	urn:oid:2.16.840.1.113883.11.20.12.1	https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.11.20.12.1
PostalAddressUse	urn:oid:2.16.840.1.113883.1.11.10637	https://vsac.nlm.nih.gov/
PostalCode	urn:oid:2.16.840.1.113883.3.88.12.80.2	http://ushik.ahrq.gov/ViewItemDetails?system=mdr&itemKey=86671000
Problem	urn:oid:2.16.840.1.113883.3.88.12.3221.7.4	http://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.3.88.12.3221.7.4
Problem Type	urn:oid:2.16.840.1.113883.3.88.12.3221.7.2	http://www.loinc.org
Race	urn:oid:2.16.840.1.113883.1.11.14914	https://vsac.nlm.nih.gov/
Race Category Excluding Nulls	urn:oid:2.16.840.1.113883.3.2074.1.1.3	https://vsac.nlm.nih.gov/
Religious Affiliation	urn:oid:2.16.840.1.113883.1.11.19185	https://vsac.nlm.nih.gov/
Reportability Priority	urn:oid:2.16.840.1.113883.10.20.15.2.5.5	N/A
ServiceDeliveryLocationRoleType	urn:oid:2.16.840.1.113883.1.11.17660	N/A
StateValueSet	urn:oid:2.16.840.1.113883.3.88.12.80.1	http://www.census.gov/geo/reference/ansi_statetables.html
Telecom Use (US Realm Header)	urn:oid:2.16.840.1.113883.11.20.9.20	https://vsac.nlm.nih.gov/
Trigger code for condition name (RCTC subset)	urn:oid:2.16.840.1.113762.1.4.1146.28	https://phinvads.cdc.gov/vads/DownloadHotTopicDetailFile.action?filename=42399A0D-011E-E611-BD10-0017A477041A
x_ServiceEventPerformer	urn:oid:2.16.840.1.113883.1.11.19601	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html

7 CODE SYSTEMS IN THIS GUIDE

Table 108: Code Systems

Name	OID
Country	urn:oid:2.16.840.1.113883.3.88.12.80.63
FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92
Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101
HL7ActClass	urn:oid:2.16.840.1.113883.5.6
HL7ActCode	urn:oid:2.16.840.1.113883.5.4
HL7ActMood	urn:oid:2.16.840.1.113883.5.1001
HL7ActRelationshipType	urn:oid:2.16.840.1.113883.5.1002
HL7ActStatus	urn:oid:2.16.840.1.113883.5.14
HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119
HL7AdministrativeGender	urn:oid:2.16.840.1.113883.5.1
HL7Confidentiality	urn:oid:2.16.840.1.113883.5.25
HL7LanguageAbilityMode	urn:oid:2.16.840.1.113883.5.60
HL7LanguageAbilityProficiency	urn:oid:2.16.840.1.113883.5.61
HL7MaritalStatus	urn:oid:2.16.840.1.113883.5.2
HL7NullFlavor	urn:oid:2.16.840.1.113883.5.1008
HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88
HL7ParticipationSignature	urn:oid:2.16.840.1.113883.5.89
HL7ParticipationType	urn:oid:2.16.840.1.113883.5.90
HL7Race	urn:oid:2.16.840.1.113883.5.104
HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076
HL7RoleClass	urn:oid:2.16.840.1.113883.5.110
HL7RoleCode	urn:oid:2.16.840.1.113883.5.111
ICD-10-CM	urn:oid:2.16.840.1.113883.6.90
Language	urn:oid:2.16.840.1.113883.6.121
LOINC	urn:oid:2.16.840.1.113883.6.1
Multiple Code Systems	http://codesystem.com
PHIN VS (CDC Local Coding System)	urn:oid:2.16.840.1.114222.4.5.274
Race & Ethnicity – CDC	urn:oid:2.16.840.1.113883.6.238
SNOMED CT	urn:oid:2.16.840.1.113883.6.96
USPostalCodes	urn:oid:2.16.840.1.113883.6.231