

CDA R2 Extensions

Friday, August 14, 2015
8:26 AM

Inclusion in CDA R2.1 (Y/N)	Extension	Definition	Defined/Used by	Approved on	Implemented on
Yes	sdtc:admissionReferralSourceCode	This element is a coded concept that represents the type of referral. Its RIM source class is PatientEncounter. Add to <ul style="list-style-type: none"> componentOf/encompassingEncounter Cardinality: [0..1] 	<ul style="list-style-type: none"> [IHE QRPH BFDR-e] 	November, 2014	June 2015
? Discuss ? No	sdtc:asPatientRelationship	Each participant role other than an informant/relatedEntity may have zero or more relationship roles with the patient. Each of these roles can be expressed with an asPatientRelationship element which further describes the type of role using a code element. The informant/relatedEntity participant role already supports specification of the relationship between the informant and the patient via the RelatedEntity classCode, and therefore should not include this extension.(CCD) Add to <ul style="list-style-type: none"> Person Cardinality: [0..1] <p>Would need to review with committee for acceptance.</p>	<ul style="list-style-type: none"> • CCD v1.0 	April 1, 2007 / Revisited and approved, March 5, 2015	April 2015
Yes	sdtc:birthTime	The <sdtc:birthTime> element allows for the birth date of any person to be recorded. The purpose of this extension is to allow the recording of the subscriber or member of a health plan in cases where the health plan eligibility system has different information on file than the provider does for the patient. (Assuming this means add to Person, already on Patient)	<ul style="list-style-type: none"> • CCDA • HITSP C32 • QRDA 	pre-process	July 6, 2012
Yes	sdtc:deceasedInd	The deceasedInd extension is used to record that the recordTarget or subjectPerson is deceased. <ul style="list-style-type: none"> recordTarget/patientRole/patient subject/relatedSubject/subject Cardinality: [0..1] 	<ul style="list-style-type: none"> • CCD • CCDA • HITSP C32 • QRDA • [IHE QRPH BFDR-e] 	July, 2014	July, 2014
Yes	sdtc:deceasedTime	The deceasedTime extension is used to record the time of death for the recordTarget or subjectPerson. <ul style="list-style-type: none"> recordTarget/patientRole/patient subject/relatedSubject/subject Cardinality: [0..1] 	<ul style="list-style-type: none"> • CCD • CCDA • HITSP C32 • QRDA • [IHE QRPH BFDR-e] 	July, 2014	July, 2014
Yes	sdtc:desc	The desc extension allows multimedia depictions of patients, healthcare providers, or other individuals to be included in a CDA document. It may be used in any person (or derived) entity, and appears after the entity name. <ul style="list-style-type: none"> recordTarget/patientRole/patient subject/relatedSubject/subject person Cardinality: [0..1] <p>Do we want the full ED, or limit it to an image??</p>	N/A	Date UNK / Revisited and approved, March 5, 2015	April 2015
Yes	sdtc:dischargeDispositionCode	The sdtc:dischargeDispositionCode element allows the discharge disposition to be recorded for an encounter act.	<ul style="list-style-type: none"> • CCDA • HITSP C32 • QRDA 	July, 2012	July, 2012
Yes	sdtc:ethnicGroupCode	This ethnicGroupCode extension is used to record additional ethnicity groups for the recordTarget or subjectPerson. <ul style="list-style-type: none"> recordTarget/patientRole/patient subject/relatedSubject/subject Cardinality: [0..*] 	<ul style="list-style-type: none"> • Approved by SDWG on December 18, 2014 	December, 2014	February, 2015
Yes	sdtc:id	This id extension is used to record the subject's medical record number or other id. The id extension in the family history organizer on the related subject allows for unique identification of the family member(s). (CCDA) CDA Release 2.0 does not provide a mechanism to determine when two participants in different roles are in fact the same entity (i.e., an entity can be a person, organization or device). A CDA Document identifies each participant through the application of a role identifier. This identifier can be used to trace the participation of an entity in a given role, but cannot necessarily be used to determine that two entities are the same. While more role identities could be provided whose intended use is to unify the entities, this is better modeled through the use of an entity identifier. Therefore, to facilitate this capability, this guide defines an extension to CDA Release 2.0 that allows the person or organization playing the role to be uniquely identified, by the inclusion of an identifier on the entity. (CCD) <ul style="list-style-type: none"> subject/relatedSubject Cardinality: [0..*] 	<ul style="list-style-type: none"> • CCD • CCDA • HITSP C32 • QRDA • [IHE QRPH BFDR-e] 	July, 2014	July, 2014
No Can use "FLFS" in CDA R2.1	sdtc:inFulfillmentOf1	This is an actRelationship called inFulfillmentOf1 that represents the Fulfills General Relationship Operator in QDM 4.1.x in QDM-Base QRDA Category 1, R3 (uses FLFS actRelationship type which is not an allowed actRelationship (entryRelationship) type in CDA). Also create ActReference to contain the pointer to already existing class. Add to: <ul style="list-style-type: none"> Observation SubstanceAdministration Supply Procedure Encounter Act Cardinality: [0..*] <p>Extension will be a pointer (reference) to an already existing order or recommendation.</p>	<ul style="list-style-type: none"> • QRDA Cat I R3 	March 19, 2015	April 2015

		The id of the existing order or recommendation will be used to allow pointing to the already existing data without repeating it in the relationship (ActReference). InFulfillmentOf1 is the relationship between the act that is fulfilling the order/recommendation and that order/recommendation. Assumption is supported in CDA R2.1 by using FLFS in entryRelationship class- verify FLFS is in RIM 2.07			
Yes	sdct:multipleBirthInd	The multipleBirthInd extension is used to record that the recordTarget or subjectPerson is part of a multiple birth. <ul style="list-style-type: none"> recordTarget/patientRole/patient subject/relatedSubject/subject Cardinality: [0..1] 	<ul style="list-style-type: none"> [IHE QRPH BFDRe] 	November, 2014	February, 2015
Yes	sdct:multipleBirthOrderNumber	The multipleBirthOrderNumber extension is used to record the order number within a multiple birth that the recordTarget or subjectPerson was born in. <ul style="list-style-type: none"> recordTarget/patientRole/patient subject/relatedSubject/subject Cardinality: [0..1] 	<ul style="list-style-type: none"> [IHE QRPH BFDRe] 	November, 2014	February, 2015
Yes CDA R2.1 is allowed to add back in	sdct:negationInd	The Quality Measures need to be able to state that something did not happen and the reason why that thing did not happen. This is accomplished by setting negationInd="true" and stating the reason (rationale) in a contained Reason template. This is needed for supply and encounters, however CDA has constrained the negationInd out of supply and encounter. (i.e. this device was not supplied because of reason x or this encounter did not happen because of reason y). On 4/23/3015 this proposal was withdrawn. Despite the argument for a consistent approach for negation on all act classes and acknowledgement of the issues unique to negation for observation acts, the proposal was withdrawn based on the requirement in the the CDA R2 standard, chapter 1.4 CDA Extensibility, "These extensions should not change the meaning of any of the standard data items, and receivers must be able to safely ignore these elements. Document recipients must be able to faithfully render the CDA document while ignoring extensions." Add to: <ul style="list-style-type: none"> Supply Encounter Cardinality: [0..1] 	<ul style="list-style-type: none"> QRDA Cat I 	Reviewed 4/23/2015	Proposal Withdrawn
? Discuss ? No	sdct:patient	The sdct:patient extension element allows for the patient's identifier, used by a given provider, to be reported. The provider in their role as an assigned entity is related to the patient. <ul style="list-style-type: none"> AssignedEntity Cardinality: [0..1] <p>Do this would require a vote by full committee May need more discussion, about need to include in 2.1- is it currently needed or a historical strategy that has been dropped.</p>	<ul style="list-style-type: none"> HITSP C83 v2.0.1 	January 31, 2010 / Revisited and approved, March 5, 2015	April 2015
Yes We change max cardinality to *	sdct:raceCode	The raceCode extension allows for multiple races to be reported for a patient. <ul style="list-style-type: none"> recordTarget/patientRole/patient 	<ul style="list-style-type: none"> CCDA HITSP C32 QRDA 	July, 2012	July, 2012
Yes	sdct:raceCode	This raceCode extension is used to record additional race codes for the subject. <ul style="list-style-type: none"> subject/relatedSubject/subject Cardinality: [0..*] 	<ul style="list-style-type: none"> [IHE QRPH BFDRe] 	November, 2014	February, 2015
Yes	sdct:signatureText	The signatureText extension adds an attribute for authenticator and legalAuthenticator to record encoded digital signature information.	<ul style="list-style-type: none"> Complete Document Templates (CDT) *New name proposed. 	Searching for this date.	July, 2014
No This was removed via application of the CD ROM test	sdct:statusCode	The statusCode extension attribute allows the implementer to identify a ClinicalDocument that is in other than the completed state. It was created to support the Structured Form Definition IG to identify that the document itself is an unfinished product currently being completed for a patient.	<ul style="list-style-type: none"> [HL7 Implementation Guide for CDA® Release 2: Questionnaire Form Definition Document, Release 1] 	January, 2014	January, 2014
No Not in DT R1	sdct:valueSet	The valueSet extension adds an attribute for elements with a CD dataType which indicates the particular value set constraining the coded concept.	<ul style="list-style-type: none"> QRDA 	July, 2012	January, 2013
No Not in DT R1	sdct:valueSetVersion	The valueSetVersion extension adds an attribute for elements with a CD dataType which indicates the version of the particular value set constraining the coded concept.	<ul style="list-style-type: none"> QRDA 	July, 2012	January, 2013

Look at establishing an initial starter set of extensions (appendix) include discussion as to why extensions were not included but are still extensions.

Need to see the role to role (Role_Link) id modeling - decide what to do with those using it above.

Other HL7 Extensions

The following extensions have been approved by other HL7 Working Groups or Affiliates for use in CDA Release 2.0 Implementation Guides.

Extensions Netherlands

The following extensions have been created by Nictiz for use in CDA Release 2.0 Implementation Guides. Created due to requirements in The Netherlands.

Inclusion in	Extension	Definition	Defined/Used by
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CDA R2.1 (Y/N)			
Yes	hl7nl:doseCheckQuantity	<p>The CDA extension hl7nl:doseCheckQuantity represents the ratio of a quantity of a substance that was or is intended to be administered over a period of time. It exists in HL7 RIM Act Class 'SubstanceAdministration', is used in HL7v3 messaging in The Netherlands, but is not available in CDA.</p> <pre><hl7nl:doseCheckQuantity xmlns:hl7nl="urn:hl7-nl:v3" xmlns="urn:hl7-org:v3"> <numerator xsi:type="PQ" value="6"> <translation value="6" code="245" codeSystem="2.16.840.1.113883.2.4.4.1.900.2" displayName="Stuk"/> </numerator> <denominator xsi:type="PQ" value="1" unit="wk"/> </hl7nl:doseCheckQuantity></pre>	<ul style="list-style-type: none"> Nictiz, Pharmacy, zorgtoepassing medicatieproces

Non-HL7 Extensions

The following extensions have been created and/or approved for use in CDA Release 2.0 Implementation Guides by organizations other than HL7 or its affiliates.

Inclusion in CDA R2.1 (Y/N)	Extension	Definition	Defined/Used by
No	pcc:replacementOf	<p>The <replacementOf> extension element is applied to a section appearing in a PHR Update Document to indicate that that section's content should replace that of a previously existing section. The identifier of the previously existing section is given so that the PHR Manager receiving the Update content will know which section to replace. The model for this extension is shown below.</p> <pre><pcc:replacementOf xmlns:pcc="urn:ihe:pcc:hl7v3"> <pcc:externalDocumentSection> <pcc:id root="58FCBE50-D4F2-4bda-BC1C-2105B284BBE3"/> <pcc:externalDocumentSection/> </pcc:replacementOf></pre> <p>This seems like it might have used the reference to external act to indicate the same capability in CDA. At a minimum this model would represent non-RIM based semantics and can not be directly modeled in CDA R2.1</p> <p>Consider the possibility of changing the vocabulary on COMP for Component to support a value set, then it might fit. Bu that changes the meaning of the Component.</p> <p>This may require further discussion with those using it.</p>	<ul style="list-style-type: none"> IHE PCC TF
Yes	pharm:formCode	<p>The CDA extension pharm:formCode represents the form of the medication (e.g. tablet, capsule, liquid).</p> <pre><manufacturedProduct xmlns:pharm="urn:ihe:pharm:medication" classCode="MANU"> <templateId root="1.3.6.1.4.1.19376.1.5.3.1.4.7.2"/> <templateId root="2.16.840.1.113883.10.20.1.53"/> <manufacturedMaterial classCode="MMAT" determinerCode="KIND"> <templateId root="1.3.6.1.4.1.19376.1.9.1.3.1"/> <!-- National medicinal product code (brand-level) --> <code code=" " displayName=" " codeSystem=" " codeSystemName=" "/> <!-- Brand name --> <name>... </name> <!-- Pharmaceutical dose form --> <pharm:formCode code=" " displayName=" " codeSystem=" " codeSystemName=" "/> </pre> <p>formCode is RIM attribute on material</p>	<ul style="list-style-type: none"> IHE Pharmacy Prescription
Yes	epsos:formCode	<p>The CDA extension epsos:formCode represents the form of the medication (e.g. tablet, capsule, liquid).</p> <pre><manufacturedProduct xmlns:epsos="urn:epsos-org:ep:medication" classCode="MANU"> <templateId root="1.3.6.1.4.1.12559.11.10.1.3.1.3.1"/> <manufacturedMaterial classCode="MMAT" determinerCode="KIND"> <code code=" " displayName="Pyrimon" codeSystem=" " codeSystemName=" "/> <name>Pyrimon</name> <epsos:formCode code="10604000" displayName="Eye drops, solution" codeSystem="1.3.6.1.4.1.12559.11.10.1.3.1.4.4.1" codeSystemName="EDQM"/> ...</pre> <p>formCode is RIM attribute on material</p>	<ul style="list-style-type: none"> Smart Open Services for European Patients (epSOS)
No	pharm:asContent	<p>The CDA extension: pharm:asContent describes the packaging of the medication. The pharm:code element provides the code for the particular package. The pharm:name element describes brand name. The pharm:formCode element provides the code for the particular package. The pharm:lotNumberText element provides a string representation of a possible lot number. The pharm:capacityQuantity element described the capacity of the packaging.</p> <pre><pharm:asContent classCode="CONT"> <pharm:containerPackagedMedicine classCode="CONT" determinerCode="INSTANCE"> <pharm:code code=" " displayName=" " codeSystem=" " codeSystemName=" "/> <pharm:name>...</pharm:name> <pharm:formCode code=" " displayName=" " codeSystem=" " codeSystemName=" "/> <pharm:lotNumberText>...</pharm:lotNumberText> <pharm:capacityQuantity value=" " unit=" "/> </pharm:containerPackagedMedicine> </pharm:asContent></pre> <p>CDA Entry modeling does not support Container classes, this will need to remain an</p>	<ul style="list-style-type: none"> IHE Pharmacy Prescription

		extension	
No	epsos:asContent	<p>The CDA extension: epsos:asContent describes the packaging of the medication. The epsos:name describes brand name. The epsos:formCode element provides the code for the particular package. The epsos:capacityQuantity element described the capacity of the packaging.</p> <pre><epsos:asContent classCode="CONT"> <epsos:containerPackagedMedicine classCode="CONT" determinerCode="INSTANCE"> <epsos:name>Pyrimon 5 ml Eye Drops</epsos:name> <epsos:formCode code="30008000" displayName="Bottle" codeSystem="1.3.6.1.4.1.12559.11.10.1.3.1.44.1" codeSystemName="EDQM"/> <epsos:capacityQuantity value="5" unit="ml"/> <epsos:capTypeCode code="30022000" codeSystem="1.3.6.1.4.1.12559.11.10.1.3.1.44.1" displayName="Dropper applicator" codeSystemName="EDQM"/> </epsos:containerPackagedMedicine> </epsos:asContent></pre> <p>CDA Entry modeling does not support Container classes, this will need to remain an extension</p>	<ul style="list-style-type: none"> • Smart Open Services for European Patients (epSOS)
Need to research	pharm:asSpecializedKind	<p>The CDA extension: pharm:asSpecializedKind describes a generic equivalent of the medication described in the current Medicine entry. The pharm:code element contains the coded representation of the generic medicine. The pharm:name element may be used for the plain text representation of the generic medicine.</p> <pre><pharm:asSpecializedKind classCode="GRIC"> <pharm:generalizedMedicineClass classCode="MMAT"> <pharm:code code=" " displayName="Generic Equivalent" codeSystem=" " codeSystemName=" "/> <pharm:name>...</pharm:name> </pharm:generalizedMedicineClass> </pharm:asSpecializedKind></pre> <p>Need to verify that "GRIC" is in RIM 2.06 - it is found, however we need know if this needs new elements we might not support in CDA R2.0</p> <p>We may need to reach out of the IHE group on the modeling that they are using.</p>	<ul style="list-style-type: none"> • IHE Pharmacy Prescription
Need to research	epsos:asSpecializedKind	<p>The CDA extension: epsos:asSpecializedKind describes a generic equivalent of the medication described in the current Medicine entry. The epsos:code element contains the coded representation of the generic medicine. The epsos:name element may be used for the plain text representation of the generic medicine.</p> <pre><epsos:asSpecializedKind classCode="GRIC"> <epsos:generalizedMedicineClass classCode="MMAT"> <epsos:code nullFlavor="NA"/> <epsos:name>Chloramphenicol/ Dexamethasone</epsos:name> </epsos:generalizedMedicineClass> </epsos:asSpecializedKind></pre> <p>Need to verify that "GRIC" is in RIM 2.06 - it is found, however we need know if this needs new elements we might not support in CDA R2.0</p> <p>We may need to reach out of the epSOS group on the modeling that they are using.</p>	<ul style="list-style-type: none"> • Smart Open Services for European Patients (epSOS)
No	pharm:ingredient	<p>The CDA extension: pharm:ingredient represents active ingredient(s) of the medication. The pharm:quantity element represents the strength of the active ingredient(s) as the ratio of the active ingredient(s) to a unit of medication. The pharm:quantity element contains the numerator and denominator of the strength ratio.</p> <pre><pharm:ingredient classCode="ACTI"> <pharm:quantity> <pharm:numerator xsi:type="PQ" value=" " unit=" "/> <pharm:denominator xsi:type="PQ" value=" " unit=" "/> </pharm:quantity> <pharm:ingredient classCode="MMAT" determinerCode="KIND"> <pharm:code code=" " displayName="Active Ingredient 1" codeSystem=" " codeSystemName=" "/> <pharm:name>Active Ingredient 1</pharm:name> </pharm:ingredient> <pharm:ingredient classCode="ACTI"> <pharm:quantity> <pharm:numerator xsi:type="PQ" value=" " unit=" "/> <pharm:denominator xsi:type="PQ" value=" " unit=" "/> </pharm:quantity> <pharm:ingredient classCode="MMAT" determinerCode="KIND"> <pharm:code code=" " displayName="Active Ingredient 2" codeSystem=" " codeSystemName=" "/> <pharm:name>Active Ingredient 2</pharm:name> </pharm:ingredient> </pharm:ingredient></pre> <p>It does not look like CDA Entries support the modeling of role based designation of ingredients to a medication. This will likely need to remain an extension.</p> <p>Common Product Model was used by the group.</p>	<ul style="list-style-type: none"> • IHE Pharmacy Prescription
No	epsos:ingredient	<p>The CDA extension: epsos:ingredient represents the active ingredient of the medication. The epsos:quantity element represents the strength of the active ingredient as the ratio of</p>	<ul style="list-style-type: none"> • Smart Open Services for

		<p>the active ingredient to a unit of medication. The epsos:quantity element contains the numerator and denominator of the strength ratio.</p> <pre><epsos:ingredient classCode="ACTI"> <epsos:quantity> <epsos:numerator unit="mg" value="5" xsi:type="epsos:PQ"/> <epsos:denominator unit="1" value="1" xsi:type="epsos:PQ"/> </epsos:quantity> <epsos:ingredient classCode="MMAT" determinerCode="KIND"> <epsos:code code="G04BD04" codeSystem="2.16.840.1.113883.6.73" codeSystemName="ATC" displayName="oxybutynin"/> <epsos:name>oxybutynin</epsos:name> </epsos:ingredient> </epsos:ingredient></pre> <p>It does not look like CDA Entries support the modeling of role based designation of ingredients to a medication. This will likely need to remain an extension.</p> <p>Common Product Model was used by the group.</p>	<p>European Patients (epSOS)</p>
<p>No</p>	<p>epsos:subingredient</p>	<p>The CDA extension: epsos:ingredient represents active ingredient(s) of the medication. The epsos:quantity element represents the strength of the active ingredient(s) as the ratio of the active ingredient(s) to a unit of medication. The epsos:quantity element contains the numerator and denominator of the strength ratio.</p> <pre><epsos:ingredient classCode="MMAT" determinerCode="KIND"> <epsos:code code="C03EA01" codeSystem="2.16.840.1.113883.6.73" codeSystemName="ATC" displayName="hydrochlorothiazide and potassium-sparing agents"/> <epsos:name>AMILORIDE+IDROCLOROTIAZIDE</epsos:name> <epsos:subIngredient classCode="ACTI"> <epsos:quantity> <epsos:numerator unit="mg" value="5" xsi:type="epsos:PQ"/> <epsos:denominator unit="1" value="1" xsi:type="epsos:PQ"/> </epsos:quantity> <epsos:ingredient classCode="MMAT" determinerCode="KIND"> <epsos:code code="C03DB01" codeSystem="2.16.840.1.113883.6.73" codeSystemName="ATC" displayName="amiloride"/> </epsos:ingredient> </epsos:subIngredient> <epsos:subIngredient classCode="ACTI"> <epsos:quantity> <epsos:numerator unit="mg" value="50" xsi:type="epsos:PQ"/> <epsos:denominator unit="1" value="1" xsi:type="epsos:PQ"/> </epsos:quantity> <epsos:ingredient classCode="MMAT" determinerCode="KIND"> <epsos:code code="C03AA03" codeSystem="2.16.840.1.113883.6.73" codeSystemName="ATC" displayName="hydrochlorothiazide"/> </epsos:ingredient> </epsos:subIngredient> </epsos:ingredient></pre> <p>It does not look like CDA Entries support the modeling of role based designation of subingredients to a medication. This will likely need to remain an extension.</p> <p>Common Product Model was used by the group.</p>	<p>• Smart Open Services for European Patients (epSOS)</p>
<p>No</p>	<p>lab:precondition</p>	<p>The CDA extension: lab:precondition adds a precondition actRelationship between ObservationRange class and Criterion class of the CDA entry model. The Clinical Statement of CDA does not support the association of a criterion with a reference range, thus forbidding expressing in a Laboratory Report that a reference range is conditioned by the patient's sex, and/or the patient's age. The proposed extension enables expression of these criteria.</p> <pre>... <referenceRange typeCode="REFV"> <observationRange classCode="OBS" moodCode="EVN.CRT"> <value xsi:type="IVL_PQ"> <low value="4.50" unit="10*6/mm3"/> <high value="6.00" unit="10*6/mm3"/> </value> <lab:precondition typeCode="PRCN"> <lab:criterion classCode="COND"> <lab:code code="SEX"/> <lab:value xsi:type="CD" code="M" codeSystem="2.16.840.1.113883.5.1"/> </lab:criterion> </lab:precondition> <lab:precondition typeCode="PRCN"> <lab:criterion classCode="COND"> <lab:code code="AGE"/> <lab:value xsi:type="IVL_PQ"> <lab:low value="35" unit="Y"/> <lab:high value="55" unit="Y"/> </lab:value> </lab:criterion> </lab:precondition> </observationRange> </referenceRange> ...</pre> <p>This would require new classes to added to CDA to support this modeling.</p>	<p>• IHE Laboratory</p>

Yes	lab:statusCode	<p>The CDA extension: lab:statusCode adds the ability to represent a status code on the documentationOf/ServiceEvent element.</p> <p>The Laboratory Report Content Module can express both final and non-final reports. To distinguish between the two, the statusCode element has been added to the documentationOf/serviceEvent element. A non-final report is a report documenting a serviceEvent, which is in the status "active". This sub-element serviceEvent/statusCode is optional. When it is not present the serviceEvent is assumed to be in the status "completed".</p> <p>...</p> <pre><documentationOf> <serviceEvent> <lab:statusCode code="active"> <performer> ... </performer> </serviceEvent> </documentationOf> ...</pre> <p>statusCode is a RIM attribute that can be added back in optionally.</p>	• IHE Laboratory
No	nehta:completionCode	<p>The lifecycle status of a document. Values: Interim, Final, Withdrawn. The model for this extension is shown below.</p> <pre><completionCode xmlns="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0" code="F" codeSystem="1.2.36.1.2001.1001.101.104.20104" codeSystemName="NCTIS Document Status Values" displayName="Final"/></pre> <p>CompletionCode was removed from CDA R2.0, because it violated the CD ROM rule.</p>	• NEHTA Australia
Have a wider discussion	nehta:asEntityIdentifier	<p>An identifier associated with a Patient, Person, Organization, Entity, or PlayingEntity. This is the otherIds pattern from the patient DMIM. The content is the id, and optionally a code (often from v2 table 0203) and/or a place. The model for this extension is shown below.</p> <pre><nehta:asEntityIdentifier classCode="IDENT" xmlns:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"> <nehta:id root="..." extension="..." /> <nehta:code code="..." codeSystem="..." /> <nehta:assigningGeographicArea classCode="PLC"> <nehta:name>National Identifier</nehta:name> </nehta:assigningGeographicArea> </nehta:asEntityIdentifier></pre> <p>The otherIds pattern is not directly supported in CDA R2.1, as such , I believe that this extension will continue to need to be used for this modeling.</p> <p>We may want to reconsider this and consider to adopt this to support clear identification for various classes. This needs to be discussed and decide where to adopt.</p> <p>Consider only adopting it for patient and leave as an extension or develop CDA R3.0 in the future.</p>	• NEHTA Australia
Yes	nehta:multipleBirthInd	<p>An indication that this person was part of multiple birth.</p> <pre><nehta:multipleBirthInd xmlns:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0" value="true" /></pre> <p>multipleBirthInd is a RIM attribute that can be optionally added back in.</p>	• NEHTA Australia
Yes	nehta:multipleBirthOrder Number	<p>The order in which this person was born if part of a multiple birth.</p> <pre><nehta:multipleBirthOrderNumber xmlns:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0" value="2" /></pre> <p>multipleBirthOrderNumber is a RIM attribute that can be optionally added back in.</p>	• NEHTA Australia
No	nehta:asEmployment	<p>A person's occupation and employer.</p> <pre><nehta:asEmployment classCode="EMP" xmlns:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"> <nehta:code> <originalText>Senior Medical Oncologist</originalText> </nehta:code> <nehta:jobCode code="253314" codeSystem="2.16.840.1.113883.13.62" codeSystemName="1220.0 - ANZSCO - Australian and New Zealand Standard Classification of Occupations, First Edition, 2006" displayName="Medical Oncologist"/> <nehta:jobClassCode code="FT" codeSystem="2.16.840.1.113883.5.1059" codeSystemName="HL7:EmployeeJobClass" displayName="full-time"/> <nehta:employerOrganization> <name>GP Clinic</name> <asOrganizationPartOf> <wholeOrganization> <name use="ORGB">GP Clinics</name> <nehta:asEntityIdentifier classCode="IDENT"> <nehta:id assigningAuthorityName="HPI-O" root="1.2.36.1.2001.1003.0.8003621231167899"/> <nehta:assigningGeographicArea classCode="PLC"> <nehta:name>National Identifier</nehta:name> </nehta:assigningGeographicArea> </nehta:asEntityIdentifier> </wholeOrganization> </asOrganizationPartOf> </nehta:employerOrganization> </nehta:asEmployment></pre>	• NEHTA Australia

		<pre> </wholeOrganization> </asOrganizationPartOf> </nehta:employerOrganization> </nehta:asEmployment> </pre> <p>This requires modeling that we do not currently support, it will need to remain an extension.</p>	
No	nehta:asIngredient	<p>Medicine/Vaccine ingredient.</p> <pre> <manufacturedMaterial> <code code="IFXB" codeSystem="1.2.36.1.2001.1005.17" codeSystemName="Australian Vaccine Code" displayName="Infanrix-Hep B"/> <nehta:asIngredient classCode="INGR" xmlns:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"> <nehta:ingredientManufacturedMaterial classCode="MMAT" determinerCode="KIND"> <nehta:code> <originalText>Diphtheria</originalText> </nehta:code> </nehta:ingredientManufacturedMaterial> </nehta:asIngredient> ... </manufacturedMaterial> </pre> <p>It does not look like CDA Entries support the modeling of role based designation of ingredients to a medication. This will likely need to remain an extension.</p>	• NEHTA Australia
Yes	nehta:desc	<p>A text description of the product. While the data type ED would allow for a full product monograph to be carried in this attribute, this practice is to be avoided, because product monograph document structures (Structured Product Labeling) should be used instead for such documents. The description attribute is mainly to be used for brief descriptions which users of product catalogs can use to quickly distinguish this product from other similar products in a list of products.</p> <pre> <manufacturedProduct> <manufacturedMaterial> <nehta:desc xmlns:nehta="http://ns.electronichealth.net.au/Ci/Cda/Extensions/3.0"> Prodeine Forte, 30mg, 20 tablets.</nehta:desc> </manufacturedMaterial> </manufacturedProduct> </pre> <p>desc - can be added back into the manufacturedMaterial in CDA</p>	

Additional items to be considered

Negation indicator on Supply / Encounter