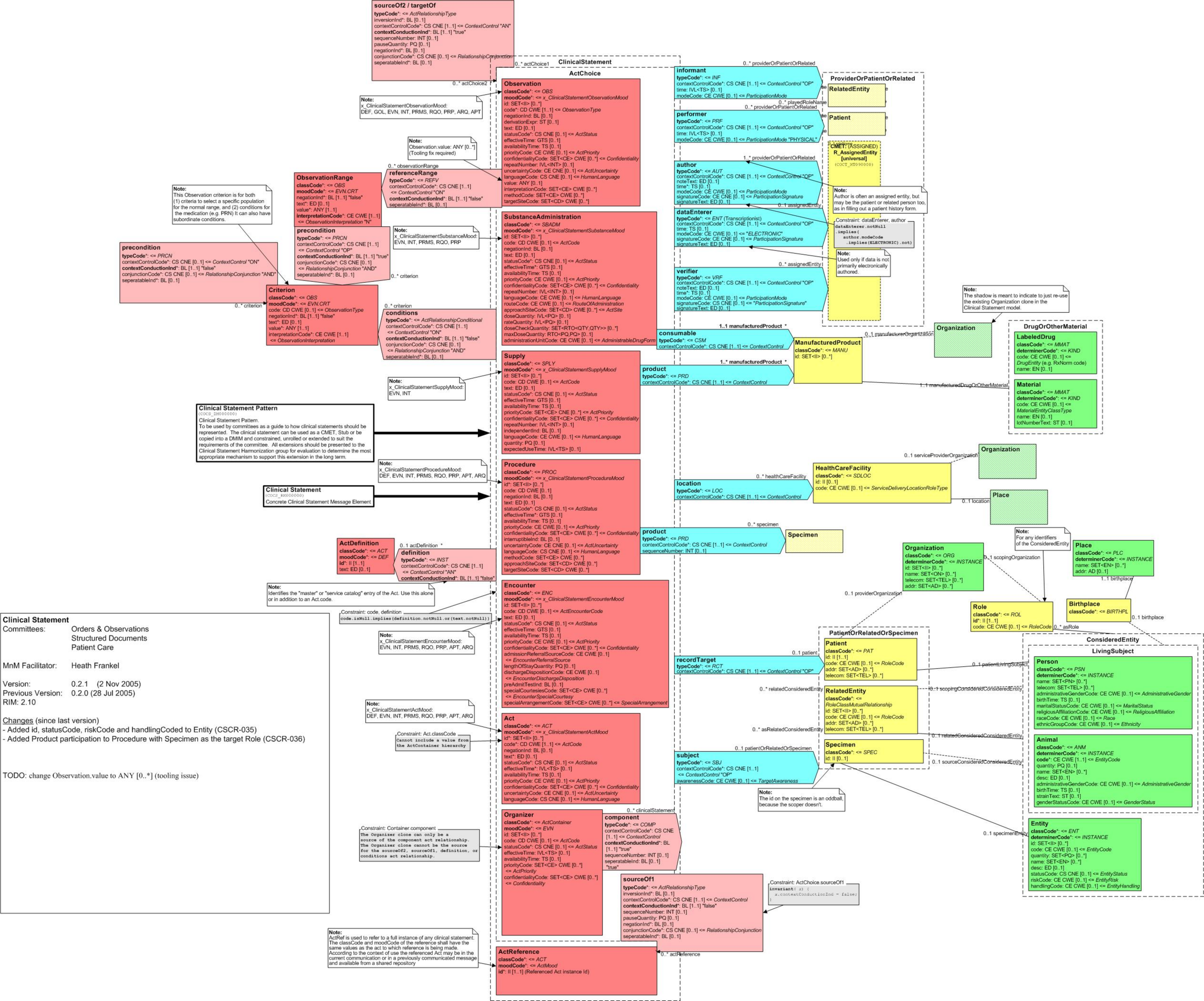
sourceOf2 / targetOf
typeCode*: <= ActRelationshipType
inversionInd*: BL [0..1]
contextControlCode*: CS CNE [1..1] <= ContextControl "AN"
contextConductionInd*: BL [1..1] "true"
sequenceNumber: INT [0..1]
pauseQuantity: PQ [0..1]
negationInd*: BL [0..1]
conjunctionCode*: CS CNE [0..1] <= RelationshipConjunction
seperatableInd*: BL [0..1]
0..* actChoice1
ClinicalStatement
ActChoice
0..* actChoice2
Observation
classCode*: <= OBS
moodCode*: <= x_ClinicalStatementObservationMood
id: SET<II> [0..*]
code*: CD CWE [1..1] <= ObservationType
negationInd: BL [0..1]
derivationExpr: ST [0..1]
text: ED [0..1]
statusCode*: CS CNE [0..1] <= ActStatus
effectiveTime: GTS [0..1]
availabilityTime: TS [0..1]
priorityCode: CE CWE [0..1] <= ActPriority
confidentialityCode: SET<CE> CWE [0..*] <= Confidentiality
repeatNumber: IVL<INT> [0..1]
uncertaintyCode: CE CNE [0..1] <= ActUncertainty
languageCode: CS CNE [0..1] <= HumanLanguage
value: ANY [0..1]
interpretationCode: SET<CE> CWE [0..*]
methodCode: SET<CE> CWE [0..*]
targetSiteCode: SET<CD> CWE [0..*]
Note:
x_ClinicalStatementObservationMood:
DEF, GOL, EVN, INT, PRMS, RQO, PRP, ARQ, APT
Note:
Observation.value: ANY [0..*]
(Tooling fix required)
0..* observationRange
referenceRange
typeCode*: <= REFV
contextControlCode*: CS CNE [1..1]
<= ContextControl "ON"
contextConductionInd*: BL [1..1] "false"
seperatableInd*: BL [0..1]
ObservationRange
classCode*: <= OBS
moodCode*: <= EVN.CRT
negationInd*: BL [1..1] "false"
text*: ED [0..1]
value*: ANY [1..1]
interpretationCode*: CE CWE [1..1]
<= ObservationInterpretation "N"
Note:
This Observation criterion is for both
(1) criteria to select a specific population
for the normal range, and (2) conditions for
the medication (e.g. PRN) It can also have
subordinate conditions.
precondition
typeCode*: <= PRCN
contextControlCode*: CS CNE [1..1]
<= ContextControl "OP"
contextConductionInd*: BL [1..1] "true"
conjunctionCode*: CS CNE [0..1]
<= RelationshipConjunction "AND"
seperatableInd*: BL [0..1]
0..* criterion
precondition
typeCode*: <= PRCN
contextControlCode*: CS CNE [1..1]
<= ContextControl "ON"
contextConductionInd*: BL [1..1] "false"
conjunctionCode*: CS CNE [0..1] <= RelationshipConjunction "AND"
seperatableInd*: BL [0..1]
0..* criterion
Criterion
classCode*: <= OBS
moodCode*: <= EVN.CRT
code: CD CWE [0..1] <= ObservationType
negationInd*: BL [1..1] "false"
text*: ED [0..1]
value*: ANY [1..1]
interpretationCode*: CE CWE [1..1]
<= ObservationInterpretation
0..* criterion
conditions
typeCode*: <= ActRelationshipConditional
contextControlCode*: CS CNE [1..1]
<= ContextControl "ON"
contextConductionInd*: BL [1..1] "false"
conjunctionCode*: CS CNE [0..1]
<= RelationshipConjunction "AND"
seperatableInd*: BL [0..1]
SubstanceAdministration
classCode*: <= SBADM
moodCode*: <= x_ClinicalStatementSubstanceMood
id: SET<II> [0..*]
code: CD CWE [0..1] <= ActCode
negationInd: BL [0..1]
text: ED [0..1]
statusCode*: CS CNE [0..1] <= ActStatus
effectiveTime*: GTS [0..1]
availabilityTime: TS [0..1]
priorityCode: CE CWE [0..1] <= ActPriority
confidentialityCode: SET<CE> CWE [0..*] <= Confidentiality
repeatNumber: IVL<INT> [0..1]
languageCode: CE CWE [0..1] <= HumanLanguage
routeCode: CE CWE [0..1] <= RouteOfAdministration
approachSiteCode: SET<CD> CWE [0..*] <= ActSite
doseQuantity: IVL<PQ> [0..1]
rateQuantity: IVL<PQ> [0..1]
doseCheckQuantity: SET<RTO<QTY,QTY>> [0..*]
maxDoseQuantity: RTO<PQ,PQ> [0..1]
administrationUnitCode: CE CWE [0..1] <= AdministrableDrugForm
Note:
x_ClinicalStatementSubstanceMood:
EVN, INT, PRMS, RQO, PRP
Supply
classCode*: <= SPLY
moodCode*: <= x_ClinicalStatementSupplyMood
id: SET<II> [0..*]
code: CD CWE [0..1] <= ActCode
text: ED [0..1]
statusCode*: CS CNE [0..1] <= ActStatus
effectiveTime: GTS [0..1]
availabilityTime: TS [0..1]
priorityCode: SET<CE> CWE [0..*] <= ActPriority
confidentialityCode: SET<CE> CWE [0..*] <= Confidentiality
repeatNumber: IVL<INT> [0..1]
independentInd: BL [0..1]
languageCode: CE CWE [0..1] <= HumanLanguage
quantity: PQ [0..1]
expectedUseTime: IVL<TS> [0..1]
Note:
x_ClinicalStatementSupplyMood:
EVN, INT
Clinical Statement Pattern
(COCS_EM000000)
Clinical Statement Pattern.
To be used by committees as a guide to how clinical statements should be represented. The clinical statement can be used as a CMET, Stub or be copied into a DMIM and constrained, unrolled or extended to suit the requirements of the committee. All extensions should be presented to the Clinical Statement Harmonization group for evaluation to determine the most appropriate mechanism to support this extension in the long term.
Procedure
classCode*: <= PROC
moodCode*: <= x_ClinicalStatementProcedureMood
id*: SET<II> [0..*]
code: CD CWE [0..1]
negationInd: BL [0..1]
text: ED [0..1]
statusCode*: CS CNE [0..1] <= ActStatus
effectiveTime*: GTS [0..1]
availabilityTime: TS [0..1]
priorityCode: CE CWE [0..1] <= ActPriority
confidentialityCode: SET<CE> CWE [0..*] <= Confidentiality
interruptibleInd: BL [0..1]
uncertaintyCode: CE CNE [0..1] <= ActUncertainty
languageCode: CS CNE [0..1] <= HumanLanguage
methodCode: SET<CE> CWE [0..*]
approachSiteCode: SET<CD> CWE [0..*]
targetSiteCode: SET<CD> CWE [0..*]
Note:
x_ClinicalStatementProcedureMood:
DEF, EVN, INT, PRMS, RQO, PRP, APT, ARQ
Clinical Statement
(CDCS_RM000000)
Concrete Clinical Statement Message Element
ActDefinition
classCode*: <= ACT
moodCode*: <= DEF
id*: II [1..1]
text: ED [0..1]
0..1 actDefinition *
definition
typeCode*: <= INST
contextControlCode*: CS CNE [1..1]
<= ContextControl "AN"
contextConductionInd*: BL [1..1] "false"
Note:
Identifies the "master" or "service catalog" entry of the Act. Use this alone
or in addition to an Act.code.
Constraint: code, definition
code.isNull.implies(definition.notNull.or(text.notNull))
Encounter
classCode*: <= ENC
moodCode*: <= x_ClinicalStatementEncounterMood
id: SET<II> [0..*]
code: CD CWE [0..1] <= ActEncounterCode
text: ED [0..1]
statusCode*: CS CNE [0..1] <= ActStatus
effectiveTime: GTS [0..1]
availabilityTime: TS [0..1]
priorityCode: CE CWE [0..1] <= ActPriority
confidentialityCode: SET<CE> CWE [0..*] <= Confidentiality
admissionReferralSourceCode: CE CWE [0..1]
<= EncounterReferralSource
lengthOfStayQuantity: PQ [0..1]
dischargeDispositionCode: CE CWE [0..1]
<= EncounterDischargeDisposition
preAdmitTestInd: BL [0..1]
specialCourtesiesCode: SET<CE> CWE [0..*]
<= EncounterSpecialCourtesy
specialArrangementCode: SET<CE> CWE [0..*] <= SpecialArrangement
Note:
x_ClinicalStatementEncounterMood:
EVN, INT, PRMS, RQO, PRP, APT, ARQ
Note:
x_ClinicalStatementActMood:
DEF, EVN, INT, PRMS, RQO, PRP, APT, ARQ
Act
classCode*: <= ACT
moodCode*: <= x_ClinicalStatementActMood
id*: SET<II> [0..*]
code*: CD CWE [1..1] <= ActCode
negationInd: BL [0..1]
text*: ED [0..1]
statusCode*: CS CNE [0..1] <= ActStatus
effectiveTime*: IVL<TS> [0..1]
availabilityTime: TS [0..1]
priorityCode: CE CWE [0..1] <= ActPriority
confidentialityCode: SET<CE> CWE [0..*] <= Confidentiality
uncertaintyCode: CE CNE [0..1] <= ActUncertainty
languageCode: CS CNE [0..1] <= HumanLanguage
Constraint: Act.classCode
Cannot include a value from the ActContainer hierarchy
Organizer
classCode*: <= ActContainer
moodCode*: <= EVN
id: SET<II> [0..*]
code: CD CWE [0..1] <= ActCode
statusCode*: CS CNE [0..1] <= ActStatus
effectiveTime: IVL<TS> [0..1]
availabilityTime: TS [0..1]
priorityCode: SET<CE> CWE [0..*]
<= ActPriority
confidentialityCode: SET<CE> CWE [0..*]
<= Confidentiality
0..* clinicalStatement
component
typeCode*: <= COMP
contextControlCode*: CS CNE
[1..1] <= ContextControl
contextConductionInd*: BL
[1..1] "true"
sequenceNumber: INT [0..1]
seperatableInd: BL [0..1]
"true"
Constraint: Container.component
The Organizer clone can only be a source of the component act relationship. The Organizer clone cannot be the source for the sourceOf2, sourceOf1, definition, or conditions act relationship.
sourceOf1
typeCode*: <= ActRelationshipType
inversionInd*: BL [0..1]
contextControlCode*: CS CNE [1..1] <= ContextControl
contextConductionInd*: BL [1..1] "false"
sequenceNumber: INT [0..1]
pauseQuantity: PQ [0..1]
negationInd*: BL [0..1]
conjunctionCode*: CS CNE [0..1] <= RelationshipConjunction
seperatableInd*: BL [0..1]
Constraint: ActChoice.sourceOf1
invariant(x) {
x.contextConductionInd = false;
}
0..* actReference
ActReference
classCode*: <= ACT
moodCode*: <= ActMood
id*: II [1..1] (Referenced Act instance Id)
Note:
ActRef is used to refer to a full instance of any clinical statement. The classCode and moodCode of the reference shall have the same values as the act to which reference is being made. According to the context of use the referenced Act may be in the current communication or in a previously communicated message and available from a shared repository
Clinical Statement
Committees: Orders & Observations
Structured Documents
Patient Care
MnM Facilitator: Heath Frankel
Version: 0.2.1 (2 Nov 2005)
Previous Version: 0.2.0 (28 Jul 2005)
RIM: 2.10
Changes (since last version)
- Added id, statusCode, riskCode and handlingCoded to Entity (CSCR-035)
- Added Product participation to Procedure with Specimen as the target Role (CSCR-036)
TODO: change Observation.value to ANY [0..*] (tooling issue)
0..* providerOrPatientOrRelated
informant
typeCode*: <= INF
contextControlCode*: CS CNE [1..1] <= ContextControl "OP"
time: IVL<TS> [0..1]
modeCode: CE CWE [0..1] <= ParticipationMode
0..* playedRoleName
performer
typeCode*: <= PRF
contextControlCode*: CS CNE [1..1] <= ContextControl "OP"
time: IVL<TS> [0..1]
modeCode: CE CWE [0..1] <= ParticipationMode "PHYSICAL"
1..* providerOrPatientOrRelated
author
typeCode*: <= AUT
contextControlCode*: CS CNE [1..1] <= ContextControl "OP"
noteText: ED [0..1]
time*: TS [0..1]
modeCode: CE CWE [0..1] <= ParticipationMode
signatureCode: CE CNE [0..1] <= ParticipationSignature
signatureText: ED [0..1]
0..1 assignedEntity
dataEnterer
typeCode*: <= ENT (Transcriptionist)
contextControlCode*: CS CNE [1..1] <= ContextControl "OP"
time: TS [0..1]
modeCode: CE CWE [0..1] <= "ELECTRONIC"
signatureCode: CE CNE [0..1] <= ParticipationSignature
signatureText: ED [0..1]
0..* assignedEntity
verifier
typeCode*: <= VRF
contextControlCode*: CS CNE [1..1] <= ContextControl "OP"
noteText: ED [0..1]
time*: TS [0..1]
modeCode: CE CWE [0..1] <= ParticipationMode
signatureCode: CS CNE [0..1] <= "ParticipationSignature"
signatureText: ED [0..1]
ProviderOrPatientOrRelated
RelatedEntity
Patient
CMET: (ASSIGNED) R_AssignedEntity [universal]
(COCT_MT090000)
Note:
Author is often an assigned entity, but may be the patient or related person too, as in filling out a patient history form.
Constraint: dataEnterer, author
dataEnterer.notNull
.implies(
author.modeCode
.implies(ELECTRONIC).not)
Note:
Used only if data is not primarily electronically authored.
1..1 manufacturedProduct *
consumable
typeCode*: <= CSM
contextControlCode*: CS CNE [1..1] <= ContextControl
0..1 manufacturerOrganization
ManufacturedProduct
classCode*: <= MANU
id: SET<II> [0..*]
1..* manufacturedProduct *
product
typeCode*: <= PRD
contextControlCode*: CS CNE [1..1] <= ContextControl
1..1 manufacturedDrugOrOtherMaterial
Note:
The shadow is meant to indicate to just re-use the existing Organization clone in the Clinical Statement model.
Organization
DrugOrOtherMaterial
LabeledDrug
classCode*: <= MMAT
determinerCode*: <= KIND
code: CE CWE [0..1] <= DrugEntity (e.g. RxNorm code)
name: EN [0..1]
Material
classCode*: <= MMAT
determinerCode*: <= KIND
code: CE CWE [0..1] <= MaterialEntityClassType
name: EN [0..1]
lotNumberText: ST [0..1]
0..* specimen
product
typeCode*: <= PRD
contextControlCode*: CS CNE [1..1] <= ContextControl
sequenceNumber: INT [0..1]
Specimen
0..* healthCareFacility
location
typeCode*: <= LOC
contextControlCode*: CS CNE [1..1] <= ContextControl
0..1 serviceProviderOrganization
HealthCareFacility
classCode*: <= SDLOC
id: II [0..1]
code: CE CWE [0..1] <= ServiceDeliveryLocationRoleType
Organization
0..1 location
Place
Note:
For any identifiers of the ConsideredEntity
Organization
classCode*: <= ORG
determinerCode*: <= INSTANCE
id: SET<II> [0..*]
name: SET<ON> [0..*]
telecom: SET<TEL> [0..*]
addr: SET<AD> [0..*]
0..1 scopingOrganization
Place
classCode*: <= PLC
determinerCode*: <= INSTANCE
name: SET<EN> [0..*]
addr: AD [0..1]
1..1 birthplace
0..1 providerOrganization
Role
classCode*: <= ROL
id*: II [1..1]
code: CE CWE [0..1] <= RoleCode
Birthplace
classCode*: <= BIRTHPL
0..1 birthplace
0..* asRole
PatientOrRelatedOrSpecimen
recordTarget
typeCode*: <= RCT
contextControlCode*: CS CNE [1..1] <= ContextControl "OP"
0..1 patient
Patient
classCode*: <= PAT
id: II [1..1]
code: CE CWE [0..1] <= RoleCode
addr: SET<AD> [0..*]
telecom: SET<TEL> [0..*]
0..1 patientLivingSubject
0..* relatedConsideredEntity
RelatedEntity
classCode*: <= RoleClassMutualRelationship
id: SET<II> [0..*]
code: CE CWE [0..1] <= RoleCode
addr: SET<AD> [0..*]
telecom: SET<TEL> [0..*]
0..1 scopingConsideredConsideredEntity
0..* asRelatedConsideredEntity
0..1 relatedConsideredEntity
0..1 patientOrRelatedOrSpecimen
subject
typeCode*: <= SBJ
contextControlCode*: CS CNE [1..1]
<= ContextControl "OP"
awarenessCode: CE CWE [0..1] <= TargetAwareness
Specimen
classCode*: <= SPEC
id: II [0..1]
0..1 sourceConsideredConsideredEntity
Note:
The id on the specimen is an oddball, because the scoper doesn't.
0..1 specimenEntity
ConsideredEntity
LivingSubject
Person
classCode*: <= PSN
determinerCode*: <= INSTANCE
name: SET<PN> [0..*]
telecom: SET<TEL> [0..*]
administrativeGenderCode: CE CWE [0..1] <= AdministrativeGender
birthTime: TS [0..1]
maritalStatusCode: CE CWE [0..1] <= MaritalStatus
religiousAffiliationCode: CE CWE [0..1] <= ReligiousAffiliation
raceCode: CE CWE [0..1] <= Race
ethnicGroupCode: CE CWE [0..1] <= Ethnicity
Animal
classCode*: <= ANM
determinerCode*: <= INSTANCE
code*: CE CWE [1..1] <= EntityCode
quantity: PQ [0..1]
name: SET<EN> [0..*]
desc: ED [0..1]
administrativeGenderCode: CE CWE [0..1] <= AdministrativeGender
birthTime: TS [0..1]
strainText: ST [0..1]
genderStatusCode: CE CWE [0..1] <= GenderStatus
Entity
classCode*: <= ENT
determinerCode*: <= INSTANCE
id: SET<II> [0..*]
code: CE CWE [0..1] <= EntityCode
quantity: SET<PQ> [0..*]
name: SET<EN> [0..*]
desc: ED [0..1]
statusCode: CS CNE [0..1] <= EntityStatus
riskCode: CE CWE [0..1] <= EntityRisk
handlingCode: CE CWE [0..1] <= EntityHandling