

Draft of ImagingReference for R5

Note: While this is a new resource it could be implemented by modified the now-retied ImagingManifest resource

Latest version of ImagingManifest in STU3 prior to removal in R4 can be found at <https://github.com/HL7/fhir/tree/master/source/imagingmanifest>

See also https://fodge.hl7.org/gf/project/fhir/tracker/?action=TrackerItemEdit&tracker_item_id=17183

ImagingReference

- rename
- remove short name
- Definition: a selection of DICOM SOP instances and/or frames within a single Study and Series.
- identifier
 - confirm cardinality (probably 0..*)
 - this should not be a UID or tied to SOP Instance UID since this is specifically not a KOS. Need to figure out what a more appropriate identifier would be.
 - Do we need a separate identifier, or just an id?
- clear short name
- definition:
- patient
 - change to subject, and align with ImagingStudy.
- authoringTime
 - change to issued (as per Observation)
- author
 - change to performer (as per DiagnosticReport and Observation)
 - add PractitionerRole.
- title
 - change valueset name from KOStitle. Figure out what the actual value set should be (don't use a DICOM CID).
 - Still needed?
- study
 - Remove, and promote all subitems to top level.
- uid
 - Rename to studyUid and change type to id (or is it Identifier?)
- imagingStudy
 - rename to studyReference (?) or basedOn (?) derivedFrom?
- endpoint (study-level)
 - all ok
- series
 - Remove and promote all subitems to top level.
- uid
 - rename to seriesUid. confirm type as id?
- endpoint (series)
 - remove
- instance
 - ok.
- sopClass
 - change to 0..1
- uid
 - confirm type as id?
- frameNumber
 - ok.
- add observation
 - see below
- add imageRegion
 - see below
- Review summary elements.
- Review against event pattern
- Review against w5

Structure

Name	Flags	Card.	Type	Description & Constraints 
 ImagingReference			DomainResource	Key Object Selection Elements defined in Ancestors: id, meta, implicitRules, language, text, contained, extension, modifierExtension
 identifier		0..1	Identifier	SOP Instance UID
 subject		1..1	Reference(Patient)	Patient of the selected objects
 issued		0..1	dateTime	Time when the selection of instances was made

performer	0..1	Reference(Practitioner Practitioner Role Device Organization Patient RelatedPerson)	Author (human or machine)
description	0..1	string / CodeableConcept	Description text
studyUid	1..1	oid	Study instance UID
derivedFrom	0..1	Reference(ImagingStudy)	Reference to ImagingStudy
endpoint	0..*	Reference(Endpoint)	Study access service endpoint
seriesUid	1..1	oid	Series instance UID
instance	0..*	BackboneElement	The selected instances. If no instances are included the entire series is selected.
sopClass	0..1	oid	SOP class UID of instances
uid	1..1	oid	Selected instance UIDs
frameNumber	0..*	integer	Selected frames
observationUid	0..*	oid	Selected observations in a DICOM SR
regionImage	0..1	BackboneElement	Specifies region in a DICOM image / frame
regionType	1..1	Coding	Specifies the type of region Need to make http://dicom.nema.org/medical/dicom/current/output/html/part03/sect_C.10.5.html#sect_C.10.5.1.2 into a code table
coordinateList[x]	1..1		Specifies a sequence of coordinates.
coordinateList 2d	0..*	decimal	Specifies a sequence of (x,y) coordinates
coordinateList 3d	0..*	decimal	Specifies a sequence of (x,y,z) coordinates