

XDS Metadata Submission Set for Enterprise VNA

Revision: 25/5/14

Revision by: Neelam Dugar (edited for format only by Dave Harvey)

Metadata	Radiology Report (by RIS)	Radiology Request (By Ordercomms or Pdf of scanned request card)	Radiology Image (by PACS)
Source Patient Info-Name	Patient Name (HL7 PID—field 5)	Patient Name (HL7 PID—field 5)	Patient Name (HL7 PID—field 5)
Source Patient Info-DOB	DOB (HL7 PID—field 7)	DOB (HL7 PID—field 7)	DOB (HL7 PID—field 7)
Source Patient Info-Sex	Sex (HL7 PID—field 8)	Sex (HL7 PID—field 8)	Sex (HL7 PID—field 8)
SourcePatientInfo-Address	Address (HL7 PID—field 11)	Address (HL7 PID—field 11)	Address HL7 PID—field 11)
SourcePatientID & SourcePatientInfo-ID	PAS No. (HL7 PID—field 3—Internal ID)	PAS No. (HL7 PID—field 3—Internal ID)	PAS No. (HL7 PID—field 3—Internal ID)
Patient ID (note: NHS No. will be stored as a secondary ID in the VNA)	PAS No. (Internal ID--HL7 PID—field 3) (NHS No or External ID =HL7 PID—field 2 or Field 3) *	PAS No. (Internal ID--HL7 PID—field 3) (NHS No or External ID =HL7 PID—field 2 or Field 3) *	PAS No. (Internal ID--HL7 PID—field 3) (NHS No or External ID =HL7 PID—field 2 or Field 3) *
HealthcareFacilityTypeCode 1)	NHS Trust	NHS Trust or GP Practice	NHS Trust
Author-Name 10)	a. Primary Reporter Name (HL7 OBR field 32--Principle result interpreter)	For paper requests: blank. For electronic requests: name of author passed from Ordercomms to RIS Requester -Junior doctor, nurse specialist etc may be the referrers must include name and job-role as per NHS data dictionary (HL7 ORC Field 10-Entered by)	Operator Name Radiographer/Operator name -job-role -institution-- as per NHS Data Dictionary-- (HL7 OBR field 34—Technician)
Legal Authenticator 10)	Primary Reporter (HL7 OBR field 32--Principle result interpreter)	Responsible Consultant/GP (GMC No.) (HL7 ORC Field 11—Verified by)	Operator Name HL7 OBR field 34—Technician)
Author-Role 2) 10)	Job Role Title (Position) 1. Consultant 2. Specialty Registrar 3. Radiographer – Diagnostic, Specialist Practitioner 4. Radiographer - Diagnostic (HL7 OBR-field 32--Principle result interpreter)	For paper requests: blank. For electronic requests: Job Role Title (Position). (HL7 ORC Field 10-Entered by)	Job Role Title (Position) 1. Consultant 2. Specialty Registrar 3. Radiographer - Diagnostic, Specialist Practitioner 4. Radiographer - Diagnostic HL7 OBR field 34—Technician)

Author—Speciality 3) 10)	Radiology (HL7 OBR field 32-- Principle result interpreter)	General Medicine General Surgery General Medical Practice Etc (HL7 ORC Field 10— Entered by)	Radiology HL7 OBR field 34—Technician
Author—Institution 10)	NHS Trust Name (NACS Code Description)	Trust Name/GP Practice Name Referring Consultants/GP Institution-Use NACS Codes for GP practice or Hospital name (HL7 ORC Field 17— Enterers institution)	NHS Trust Name (NACS Code Description)
PracticeSettingCode 3) Specifying the clinical speciality where the act that resulted in the document was performed	Radiology Specialty which will do the investigation--NHS data dictionary for Main specialty codes--Radiology	Referring Specialty: General Medicine, General Surgery , General Medical Practice, etc (ORC segment Field 12 - Ordering Provider)	Radiology Specialty which will do the investigation--NHS data dictionary for Main specialty codes--Radiology
Class Code 3) Specifying the main speciality which is associated with the document	Radiology	Radiology	Radiology
Type Code 4) Specifying the type of clinical activity that resulted in placing in XDS. SNOMED CT coding	Radiology Report	Radiology Request	Imaging (procedure)
Title of Document (Use human readable descriptions of National Exam Codes—e.g CT Head)	National Exam Code descriptions (HL7 OBR Field 4—Universal Service ID)	National Exam Code descriptions (HL7 OBR Field 4— Universal Service ID)	National Exam Code descriptions (HL7 OBR Field 4—Universal Service ID)
Reference ID (to link documents— not validated by IHE as yet. Documents can be linked by XDS folder structure as well)	Accession no. (HL7 OBR and ORC field 3-Filler Order No)	Accession no. (HL7 OBR and ORC field 3-Filler Order No)	Accession no. . (HL7 OBR and ORC field 3-Filler Order No)
Creation Time	Date & Time of Report Authorised Results Date/Time (HL7 OBR Field 22)	Date & Time when Request Completed Date and time of Request (ORC Field 9—Date/Time of transaction)	Date & Time of KOS publication Take the value of Study Date (0008,0020) and Study Time (0008,0030) from the associated DICOM study
Service Start Time	Date & Time of Report start/dictation	Date & Time of Request Date and time of Request (ORC Field 9—Date/Time of	Date & Time of procedure Take the value of Study Date (0008,0020) and Study Time

		transaction)	(0008,0030) from the associated DICOM study
Service Stop Time	Date & Time of Report Authorised Results Date/Time (HL7 OBR Field 22)	Date & Time of Request Date and time of Request (ORC Field 9—Date/Time of transaction)	Date & Time of procedure Take the value of Study Date (0008,0020) and Study Time (0008,0030) from the associated DICOM study
Event Code Represents the main clinical acts a. Modality 5) b. Body parts c. NICIP Codes d. Associated Specialties 4)—Clinical specialties which have an association with this document. With Radiology documents these will be the referrer specialty and provider specialty	a. DICOM Modality Modality (OBR Field 24-Diagnostic serv set ID) b. NICIP Codes(HL7 OBR Field 4—Universal Service ID) c. Associated Specialties—Radiology plus Referring Specialty (ORC Field 12 - Ordering Provider)	a. DICOM Modality Modality (OBR Field 24-Diagnostic serv set ID) b. NICIP Codes(HL7 OBR Field 4—Universal Service ID) c. Associated Specialties—Radiology plus Referring Specialty (ORC Field 12 -Ordering Provider)	a. DICOM Modality Modality (OBR Field 24-Diagnostic serv set ID) b. Body part: (0008,0060) Modality **c. NICIP Codes(HL7 OBR Field 4—Universal Service ID) **d. Associated Specialties—Radiology plus Referring Specialty (ORC Field 12 - Ordering Provider)
LanguageCode	en-GB	en-GB	en-GB
MimeType 7)	application/pdf	application/pdf	application/dicom
ConfidentialityCode 8)	Normal (usually)	Normal (usually)	Normal (usually)
FormatCode	PDF	PDF	DICOM Manifest
EntryUUID	Assigned internally - never seen by users	Assigned internally - never seen by users	Assigned internally - never seen by users
Source ID	From Rogan RIS-OID	From Rogan RIS-OID	From Perceptive-OID
Unique ID (document)	From Rogan RIS-OID	From Rogan RIS-OID	From Perceptive-OID
Intended Recipient 10)	Referring Consultant—GMC – Main specialty Referring Consultant/GP -GMC no and Main specialty as per NHS Data Dictionary (HL7 ORC Field 11— Verified by)	Radiology	Referring Consultant—GMC –Main specialty Referring Consultant/GP - GMC no and Main specialty as per NHS Data Dictionary (HL7 ORC Field 11— Verified by)

1) NHS Data Dictionary – Organisation Type

Values from: http://www.datadictionary.nhs.uk/data_dictionary/attributes/o/org/organ

Coding scheme from: <http://www.hl7.org.uk/version3group/downloads/OidRootHI7UkOnly.htm>

2) NHS Data Dictionary – Job Role

Values from: http://www.datadictionary.nhs.uk/data_dictionary/attributes/j/job_role_c

3) NHS Data Dictionary – Main Specialty code

Description and value from: http://www.datadictionary.nhs.uk/data_dictionary/attributes/m/main_sp

Coding scheme from: <http://www.hl7.org.uk/version3group/downloads/OidRootHI7UkOnly.htm>

- 4) SNOMED-CT Coding Scheme 2.16.840.1.113883.6.96
- 5) DICOM Part 3 Modality Codes (C 7.3.1.1.1)
- 6) NICIP (National Interim Clinical Imaging Procedures) codeset
- 7)

application/dicom
text/xml
image/jpeg
application/pdf
application/text

8)

Normal
Restricted
very restricted

9)

DICOM Manifest
PDF report
CDA Wrapped TEXT
CDA Imaging report with structured headings
Basic Patient Privacy Consent (no scanned part)
Basic Patient Privacy Consent (scanned part)
XDS-I PDF Report
XDS-I TEXT Report

10) Composite Data Type fields on HI7 below:

ORC 10—Entered by

ORC 11—Verified by

OBR 32—Principle Result Interpreter

OBR 33—Assistant Result Interpreter

OBR 34—Technician

These are composite HL7 fields and should have the following data items within it

- a. Name
- b. ID (for example GMC number)

- c. Job-role—as per NHS data dictionary
- d. Main specialty—as per NHS data dictionary
- e. Institution—NACS code and description for NHS

*External ID—in the newer systems that have the later version of HL7 will use PID 3 for External ID—NHS no. However, in systems using older version of HL7, may use PID 2 for NHS number—External ID.

****Event Code for Doncaster Implementation**

Radiology Images—NICIP Codes(HL7 OBR Field 4—Universal Service ID) and Associated Specialties—Radiology plus Referring Specialty will NOT part of the Event codes in the XDS-I metadata set for radiology IMAGES for Doncaster Go-live.

Radiology Images will contain Body Parts and Body parts in Event Code Metadata

Body part information may-not be present in the request and report document submission metadata—Rogan to comment.

Report and Request Event Code metadata will contain NICIP codes and also Associated Specialties.

However, using the linked document concept through folders we should be able to sort and filter for specialties using the Associated specialties contained reports and requests.

NOTES for Doncaster Implementation of XDS

1. XDS Folder Structure will be used for linking documents—Request, report and images. A folder is defined as a logical collection (or category) of documents. To “group” these documents together the “XDS Folder” can be used. A document can be a member of multiple folders.
2. Clinical Workflow
 - a. Request document will be sent to XDS registry and repository (XDS Registry and Repository is within the VNA), when ORM status is "completed" OR cancelled (HL7 ORC5—Status complete or Cancelled)
 - c. Report will be sent when ORU status is verified or Addendum (HL7 OBR 25—result status)
 - d. Supplementary reports must also be sent.
 - e. Cancelled Order/Request will also need to be sent with the reason for cancellation must be visible on XDS consumer for clinical users
 - f. In the VNA/XDS consumer, it MUST be possible to distinguish between completed and cancelled requests.
 - g. Cancelled Requests or Order will NOT have any images or reports attached to them. (It must be possible to differentiate between completed requests/orders from cancelled requests orders to the clinical users--XDS consumer.)