

CDAR2 to XDS Metadata General Mapping Notes:

It is particularly important to note that XDS Metadata extraction from a document can never be complete. XDS metadata concepts encompass more than just the document. Also, extracted document elements may not adhere to the same vocabulary as selected for XDS Metadata. Thus, vocabulary translation may be necessary.

If an XDS Document Entry Metadata element is not present, it cannot be extracted from the document.

Conflicting HL7v2.5 and ebXML length issues are not addressed in this document.

Data Type Mapping						
Document Entry Metadata data type			CDA R2 data type			NOTES
name	Multiplicity	Type	name	Multiplicity	Type	NOTES
org.eclipse.ohf.ihe.xds.metadata CodedMetadataType			CD, CE, CS			
code	?	string	@code	?	cs	
display name	?	string	@displayName	?	st	
code system name	?	string	@codeSystemName	?	st	
org.eclipse.ohf.ihe.common.hl7v2 DTM			TS			Subject to the same format pattern.
org.eclipse.ohf.ihe.common.hl7v2 XPN			PN			
family name	?	string	family	*	en.family	
given name	?	string	given	*	en.given	
other name	?	string	given (if second given name is provided)	*	en.given	
suffix	?	string	suffix	*	en.prefix	
prefix	?	string	prefix	*	en.suffix	
org.eclipse.ohf.ihe.common.hl7v2 XAD			AD			
street address	?	string	streetAddressLine	*	ADXP	
other designation	?	string	additionalLocator	*	ADXP	
city	?	string	city	*	ADXP	
state or province	?	string	state	*	ADXP	
zip or postal code	?	string	postalCode	*	ADXP	
country	?	string	country	*	ADXP	additionally consult HL7 V2.5 table 0399
county or parish code	?	string	county	*	ADXP	additionally consult HL7 V2.5 table 0289
org.eclipse.ohf.ihe.common.hl7v2 XCN			II and PN			
id number	1	string	II@extension	?	st	
family name	?	string	PN/family	*	en.family	
given name	?	string	PN/given	*	en.given	
other name	?	string	PN/given (if second given name is provided)	*	en.given	
suffix	?	string	PN/suffix	*	en.prefix	
prefix	?	string	PN/prefix	*	en.suffix	
assigning authority name	?	string	II@assigningAuthorityName	?	st	
assigning authority universal id	1	oid	II@root	1	uid	
assigning authority universal id type	1	string	NOT PRESENT			fixed value is 'ISO'
org.eclipse.ohf.ihe.common.hl7v2 CX			II			
id number	1	string	@extension	?	st	

Data Type Mapping						
Document Entry Metadata data type			CDA R2 data type			NOTES
name	Multiplicity	Type	name	Multiplicity	Type	NOTES
assigning authority name	?	string	@assigningAuthorityName	?	st	
assigning authority universal id	1	oid	@root	1	uid	
assigning authority universal id type	1	string	NOT PRESENT			fixed value is 'ISO'
org.eclipse.ohf.ihe.common.hl7v2 XTN			TEL			
unformatted telephone number	?	string	TEL@value	?	url	
org.eclipse.ohf.ihe.common.hl7v2 XON			ON and II			
organization name	?	string	ON			
id number	1	string	II@extension	?	st	
assigning authority name	?	string	II@assigningAuthorityName	?	st	
assigning authority universal id	1	oid	II@root	1	uid	
assigning authority universal id type	1	string	NOT PRESENT			fixed value is 'ISO'

Vocabulary Mapping						
Document Entry Metadata			CDA R2 vocabulary			NOTES
Administrative Sex (table 0001) - User Defined table			Administrative Gender			Values here (for HL7 v2.5) are mandated by the XDS profile
F - female			F- female			
M - male			M - male			
O - other			UN - Undifferentiated			
U - unknown			NOT PRESENT			

Element mapping

Document Entry Metadata componet			CDA R2 component			NOTES
name	Multiplicity	Type	name	Multiplicity	Type	NOTES
author	?	AuthorType	author	1	Author	
authorInstitution	*	XON	ClinicalDocument / author / assignedAuthor / representedOrganization / name, id	*, *	ON, II	
authorPerson	?	XCN	ClinicalDocument / author / assignedAuthor / id, ClinicalDocument / author / assignedAuthor / assignedPerson / name	[+], *	II, PN	
authorRole	*	string	ClinicalDocument / author / functionCode / @code	? / ?	CE / cs	
authorSpeciality	*	string	ClinicalDocument / author / assignedAuthor /code / @code	? / ?	CE / cs	
classCode	1	CodedMetadat aType	ClinicalDocuement/code	1	CE	LOINC codes
confidentialityCode	1	CodedMetadat aType	ClinicalDocument / confidentialityCode	1	CE	CDA R2 Confidentiality Vocabulary {N = normal,R= restricted,V = very restricted}
creationTime	?	DTM	ClinicalDocument / effectiveTime	1	TS	
languageCode	1	string	ClinicalDocument / languageCode /@code		CS / cs	RFC 3066 codes
practiceSettingCode	1	CodedMetadat aType	practiceSettingCode			Same as extraction for healthCareFacilityTypeCode.
serviceStartTime	?	DTM	ClinicalDocument / documentationOf / serviceEvent / effectiveTime	*/1/?	IVL_TS	
serviceStopTime	?	DTM	ClinicalDocument / documentationOf / serviceEvent / effectiveTime	*/1/?	IVL_TS	
sourcePatientId	?	CX	ClinicalDocument / recordTarget / patient / id	[+]/1/[+]	II	
org.eclipse.ohf.ihe.common.hl7v2 SourcePatientInfo	1	SourcePatientI nfo	patient info	1	RecordTar get	
PID-3 Patient Identifier List	[+]	CX	ClinicalDocument / recordTarget / patient / id	[+]/1/[+]	II	Required by XDS as part of this attribute.

Element mapping						
Document Entry Metadata componet			CDA R2 component			NOTES
name	Multiplicity	Type	name	Multiplicity	Type	NOTES
PID-5 Patient Name	[+]	XPN	ClinicalDocument / recordTarget / patient / patientPatient / name	*	PN	Required by XDS as part of this attribute. Part of minimal demographics requirements for the PIX, so required here.
PID-7 Birth Day / Time	1	TS	ClinicalDocument / recordTarget / patient / patientPatient / birthTime	?	TS	Required, if known, by XDS as a part of this attribute.
PID-8 Administrative Sex	1	string	ClinicalDocument / recordTarget / patient / patientPatient / administrativeGenderCode / @code	? / ?	CE/@code	Required by XDS as part of this attribute. {M=Male, F=Female, O=Other, U=Unknown} consult HL7 V2.5 table 0001
PID -11 Patient Address	[+]	XAD	ClinicalDocument / recordTarget / patient / addr	*	AD	Required, if known, by XDS as a part of this attribute. Part of minimal demographics requirements for the PIX, so required here.
PID - 13 Patient Home Phone	*	XTN	ClinicalDocument / recordTarget / patient / telecom	*	TEL	use the @use attribute to distinguish beteween business and home
PID - 14 Patient Business Phone	*	XTN	ClinicalDocument / recordTarget / patient / telecom	*	TEL	use the @use attribute to distinguish beteween business and home
title	?	InternationalStringType	ClinicalDocument / title	?	ST	
typeCode	R	CodedMetadataType	ClinicalDocument/ code	1	CE	Same as extraction for classCode.

Element mapping						
Document Entry Metadata componet			CDA R2 component			NOTES
name	Multiplicity	Type	name	Multiplicity	Type	NOTES
uniqueId	R	oid	ClinicalDocument / id@extension and ClinicalDocument / id@root	1	II	