Source Type	Description
DS	Document Source – value comes from the Document Source actor. Use Source/Value column or Extended Discussion to give details.
O	Other – Extended Discussion must be 'yes' and details given in an Extended Discussion.

- Source/Value – This column indicates the source or the value used.

The following tables are intended to be summaries of the mapping and transforms. The accompanying sections labeled 'Extended Discussion' are to contain the details as necessary.

4.1 Medical Document Binding to XDS, XDM and XDR

This binding defines a transformation that generates metadata for the XDSDocumentEntry element of appropriate transactions from the XDS, XDM and XDR profiles given a medical document and information from other sources. The medical document refers to the document being stored in a repository that will be referenced in the registry. The other sources of information include the configuration of the Document Source actor, the Affinity Domain, the site or facility, local agreements, other documents in the registry/repository, and this Content Profile.

In many cases, the CDA document is created for the purposes of sharing within an affinity domain. In these cases the context of the CDA and the context of the affinity domain are the same, in which case the following mappings shall apply.

In other cases, the CDA document may have been created for internal use, and are subsequentyly being shared. In these cases the context of the CDA document would not neccessarily coincide with that of the affinity domain, and the mappings below would not necessarily apply.

Please note the specifics given in the table below.

4.1.1 XDSDocumentEntry Metadata

XDSDocumentEntry Attribute	Optional?	Source Type	Source/ Value
availabilityStatus	R	DS	
authorInstitution	R2	SAT	$inst <= /ClinicalDocument/author /assignedAuthor /representedOrganization The authorInstitution can be formated

XDSDocumentEntry Attribute	Optional?	Source Type	Source/ Value
			using the following XPath expression, where $inst in the expression below represents the representedOrganization. concat($inst/name)
authorPerson	R2	SAT	$person <= /ClinicalDocument/author The author can be formatted using the following XPath expression, where $person in the expression below represents the author. concat($person/id/@extension,"^", $person/assignedPerson/name/family,"^", $person/assignedPerson/name/given[1],"^", $person/assignedPerson/name/given[2],"^", $person/assignedPerson/name/suffix,"^", $person/assignedPerson/name/prefix,"^", "^^^&", $person/id/@root,"&ISO")
authorRole	R2	SAT	This metadata element should be based on a mapping of the participation function defined in the CDA document to the set of author roles configured for the affinity domain. If the context of the CDA coincides with that of the affinity domain, then the following x-path may be appropriate: /ClincicalDocument/author/ participationFunction
authorSpecialty	R2	SAT	This metadata element should be based on a mapping of the code associated with the assignedAuthor to detailed defined classification system for healthcare providers such configured in the affinitity domain. Possible classifications include those found in SNOMED-CT, or the HIPAA Healthcare Provider Taxonomy. If the context of the CDA coincides with that of the affinity domain, then the following x-path may be appropriate: /ClinicalDocument/author/ assignedAuthor/code
classCode	R	CADT	Derived from a mapping of /ClinicalDocument/code/@code to an Affinity Domain specified coded value to use and coding system. Affinity Domains are encouraged to use the appropriate value for Type of Service, based on the LOINC Type of Service (see Page 53 of the LOINC User's Manual). Must be consistent with /ClinicalDocument/code/@code
classCodeDisplayName	R	CADT	DisplayName of the classCode derived. Derived from a mapping of /ClinicalDocument/code/@code to the appropriate Display Name based on the Type of Service. Must be Consitent with /ClinicalDocument/code/@code

XDSDocumentEntry Attribute	Optional?	Source Type	Source/ Value
confidentialityCode	R	CADT	Derived from a mapping of /ClinicalDocument/confidentialityCode/@code to an Affinity Domain specified coded value and coding system. When using the BPPC profile, the confidentialyCode may also be obtained from the <authorization> element. /ClinicalDocument/ confidentialityCode/@code -AND/OR- /ClinicalDocument/authorization/ consent[templateId/@root= '1.3.6.1.4.1.19376.1.5.3.1.2.5'] /code/@code
comments	O	DS	
creationTime	R	SAT	/ClinicalDocument/effectiveTime Times specified in clinical documents may be specified with a precision in fractional sections, and may contain a time zone offset. In the XDS Metadata, it can be precise to the second, and is always given in UTC, so the timezone offset if present must be added to the current time to obtain the UTC time.
entryUUID	R	DS	
eventCodeList	O	CADT	These values express a collection of keywords that may be relevant to the consumer of the documents in the registry. They may come from anywhere in the CDA document, according to its purpose.
eventCodeDisplayNameList	R (if event Code is valued)	CADT	These are the display names for the collection of keywords described above.
formatCode	R	FM	The format code for each PCC Document content profile is provided within the document specifications.
healthcareFacilityTypeCode	R	CAD	A fixed value assigned to the Document Source and configured form a set of Affinity Domain defined values. Must be concistent with /clinicalDocument/code
healthcareFacility TypeCodeDisplay	R	CAD	Must be concistent with /clinicalDocument/code

XDSDocumentEntry Attribute	Optional?	Source Type	Source/ Value
Name			
intendedRecipient (for XDR, XDM)	O	SAT	$person <= /ClinicalDocument/intendedRecipient and/or $inst <= /ClinicalDocument/intendedRecipient/receivedOrganization The intendedRecipient can be formated using the following XPath expression, where $inst in the expression below represents the receivedOrganization and where $person in the expression below represents the intendedRecipient. concat($person/id/@extension,"^", $person/informationRecipient/name/family,"^", $person/informationRecipient/name/given[1],"^", $person/informationRecipient/name/given[2],"^", $person/informationRecipient/name/suffix,"^", $person/informationRecipient/name/prefix,"^", "^^^&", $person/id/@root,"&ISO", "|" $inst/name) "^^^^^&", $inst/id/@root, "&ISO", "^^^^", $inst/id/@extension) -->
languageCode	R	SA	/ClinicalDocument/languageCode
legalAuthenticator	O	SAT	$person <= /ClinicalDocument/ legalAuthenticator The legalAuthenticator can be formatted using the following XPath expression, where $person in the expression below represents the legalAuthenticator. concat($person/id/@extension,"^", $person/assignedPerson/name/family,"^", $person/assignedPerson/name/given[1],"^", $person/assignedPerson/name/given[2],"^", $person/assignedPerson/name/suffix,"^", $person/assignedPerson/name/prefix,"^", "^^^&", $person/id/@root,"&ISO")
mimeType	R	FM	text/xml
parentDocumentRelationship	R (when applicable)	DS	Local document versions need not always be published, and so no exact mapping can be determined from the content of the CDA document. The parentDocumentRelationship may be determined in

XDSDocumentEntry Attribute	Optional?	Source Type	Source/ Value
			some configurations from the relatedDocument element present in the CDA dsocument. If the context of the CDA coincides with that of the affinity domain, then the following x-path may be appropriate: /ClinicalDocument/relatedDocument/@typeCode
parentDocumentId	R (when parent Document Relationship is present)	DS	Local document versions need not always be published, and so no exact mapping can be determined from the content of the CDA document. The parentDocumentId may be determined in some configurations from the relatedDocument element present in the CDA dsocument. If the context of the CDA coincides with that of the affinity domain, then the following x-path may be appropriate: $docID <= /ClinicalDocument/ relatedDocument/parentDocument/id The parentDocumentId can be formatted using the following XPath expression, where `$docID` in the expression below represents the identifier. concat($docID/@root,"^", $docID/@extension)
patientId	R	DS	The XDS Affinity Domain patient ID can be mapped from the patientRole/id element using transactions from the ITI PIX or PDQ profiles. See sourcePatientId below. If the context of the CDA coincides with that of the affinity domain, then the following x-path may be appropriate: $patID <= /ClinicalDocument/recordTarget/ patientRole/id
practiceSettingCode	R	CAD	This elements should be based on a coarse classification system for the class of specialty practice. Recommend the use of the classification system for Practice Setting, such as that described by the Subject Matter Domain in LOINC.
practiceSettingCodeDisplayName	R	CAD	This element shall contain the display names associated with the codes described above.
serviceStartTime	R2	SAT	/ClinicalDocument/documentationOf/ serviceEvent/effectiveTime/low/ @value Times specified in clinical documents may be specified with a precision in fractional sections, and may contain a time zone offset. In the XDS Metadata, it can be precise to the second, and is always given in UTC, so the timezone offset if present must be added to the current time to obtain

XDSDocumentEntry Attribute	Optional?	Source Type	Source/ Value
			the UTC time.
serviceStopTime	R2	SAT	/ClinicalDocument/documentationOf/ serviceEvent/effectiveTime/high/ @value Times specified in clinical documents may be specified with a precision in fractional sections, and may contain a time zone offset. In the XDS Metadata, it can be precise to the second, and is always given in UTC, so the timezone offset if present must be added to the current time to obtain the UTC time.
sourcePatientId	R	SAT	$patID <= /ClinicalDocument/recordTarget/ patientRole/id The patientId can be formatted using the following XPath expression, where `$patID` in the expression below represents the appropriate identifier. concat($patID/@extension,"^^^&", $patID/@root, "&ISO")
sourcePatientInfo	R	SAT	/ClinicalDocument/recordTarget/ patientRole The sourcePatientInfo metadata element can be assembled from various components of the patientRole element in the clinical document.
title	O	SA	/ClinicalDocument/title
typeCode	R	CADT	/ClinicalDocument/code/@code The typeCode should be mapped from the ClinicalDocument/code element to a set of document type codes configured in the affinity domain. One suggested coding system to use for typeCode is LOINC, in which case the mapping step can be omitted.
typeCodeDisplay Name	R	CADT	/ClinicalDocument/code/@displayName
uniqueId	R	SAT	$docID <= /ClinicalDocument/id The uniqueId can be formatted using the following XPath expression, where `$docID` in the expression below represents the identifier.

XDSDocumentEntry Attribute	Optional?	Source Type	Source/ Value
			concat($docID/@root,"^", $docID/@extension)

4.1.1.1 XDSSubmissionSet Metadata

The submission set metadata is as defined for XDS, and is not necessarily affected by the content of the clinical document. Metadata values in an XDSSubmissionSet with names identical to those in the XDSDocumentEntry may be inherited from XDSDocumentEntry metadata, but this is left to affinity domain policy and/or application configuration.

4.1.1.2 Use of XDS Submission Set

This content format uses the XDS Submission Set to create a package of information to send from one provider to another. All documents referenced by the Medical Summary in this Package must be in the submission set.

4.1.1.3 Use of XDS Folders

No specific requirements identified.

4.1.1.4 Configuration

IHE Content Profiles using this binding require that Content Creators and Content Consumers be configurable with institution and other specific attributes or parameters. Implementers should be aware of these requirements to make such attributes easily configurable. There shall be a mechanism for the publishing and distribution of style sheets used to view clinical documents.

4.1.2 Extensions from other Domains

4.1.2.1 Scanned Documents (XDS-SD)

XDS-SD is a CDA R2 document and thus conforms to the XDS Metadata requirements in the IHE PCC-TF-2:5 unless otherwise specified below.

4.1.2.1.1 XDSDocumentEntry

XDS-SD leverages the XDS DocumentEntry Metadata requirements in the IHE PCC-TF-2:5.1.1.1.1 and in PCC_TF-2/Bindings unless otherwise specified below.

4.1.2.1.1.1 XDSDocumentEntry.formatCode

The XDSDocumentEntry.formatCode shall be urn:ihe:iti:xds-sd:pdf:2008 when the document is scanned pdf and urn:ihe:iti:xds-sd:text:2008 when the document is scanned text. The formatCode codeSystem shall be 1.3.6.1.4.1.19376.1.2.3.

