

# XDS Metadata for Document Sharing.

Danish profile.

Draft profile for Trial Use.

National eHealth Authority

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# 1 INTRODUCTION

The Danish Document Sharing Service is based on IHE XDS specifications. This aim is that the document can be used for implementing XDS Metadata across Danish IHE Affinity Domains. Metadata is information about documents or records that is used when searching to find the right item. This metadata has to be supplied by the document source and is generally limited to what can be provided by source information systems.

Each XDS system requires an XDS Affinity Domain (XAD), which establishes the rules and conventions about the type of clinical documents, metadata codes, security constraints and other policies that shall be used. One of the tasks in setting up an affinity domain is to specify the metadata code sets that are allowed. In Denmark this work is ongoing and not yet finalized.

This document specifies (for trial purposes) metadata to be used in Denmark. As the metadata specifications are the first version, the focus has been on the use of HL7 CDA, especially the Danish profile of the CDA PHMR. The metadata set in this document has been derived from and mapped to IHE XDS and includes information about the patient, the document, the author and the service being documented.

The metadata will be used and assessed in a number of Telemedicine pilot projects in 2015. The experiences from the pilot project will be systematic collected and used for update of this document during the second half-year of 2015.

The IBI<sup>i</sup> project for the registration of image data on XDS-I was part of this work, but need some more work to be finalized.

The requirements for the XDS registry transactions (as ebXML Registry Package) are not part of this specification.

## 1.1 Audience

The audience for this document includes software developers and implementers of products and services for the Danish National Document Sharing Service.

## 1.2 Purpose

This document defines XDS Metadata for the use of HL7 CDA documents in IHE XDS-based clinical documents exchange in Denmark, for example as provided by the Danish Document Sharing Service. The main background documents for the definition of the Danish profile are listed below:

---

<sup>i</sup> IBI – Interregional Billedindeks (Interregional Picture Index)

- IHE IT Infrastructure Technical Framework, Volume 3 (ITI TF-3). Cross-Transaction Specification and Content Specification. Revision 11.0, September 23, 2014 [IHE-ITF-Vol3]
- IHE Patient Care Coordination (PCC) Technical Framework, Volume 2 (IHE PCC TF-2). Transactions and Content Modules. Revision 10.0, November 4, 2014.
- ELGA CDA Implementierungsleitfaden. Registrierung von CDA Dokumenten für ELGA mit IHE Cross-Enterprise Document Sharing: XDS Metadaten (XDSDocumentEntry). Version 2.03a, 28.03.2014.
- HL7 Implementation Guide for CDA Release 2.0. Personal Healthcare Monitoring Report (PHMR). Danish profile – PHMR DK). Draft. Release 1.0, 31. March 2014, Update 25. June 2014.
- Continua Health Alliance. H.810 Interoperability design guidelines for personal health systems. Version Endorphin plus Errata (CDG 2014). March 19, 2014.

Information regarding HL7 v2 datatypes used in this document can be found in table 4.2.3.1.7-2 in [IHE-ITF-Vol3].

This document has been prepared by the National Sundheds-it in collaboration with a workgroup composed by a number of partners from the health sector and suppliers of ICT solutions to the healthcare sector.

The work group held 2 workshops in the period from November 2014 to December 2014. The work group included:

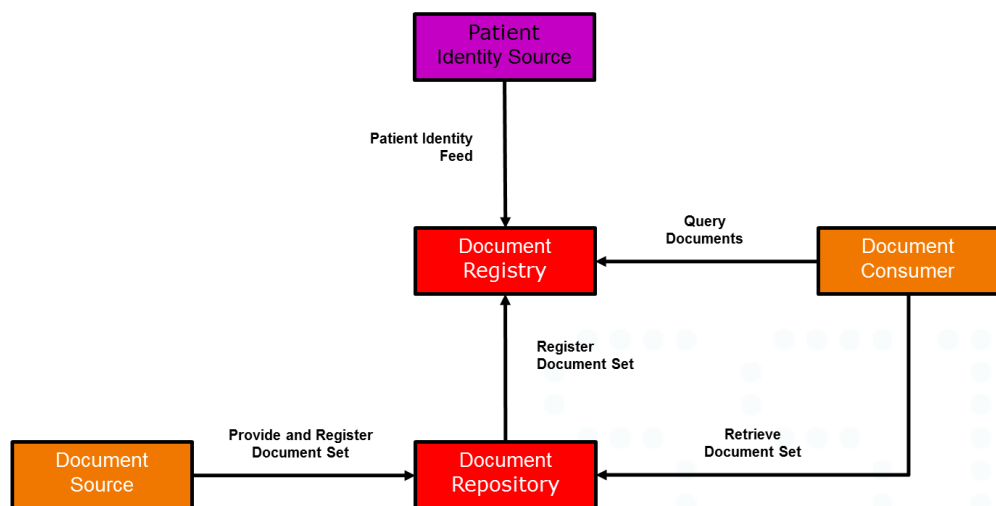
Birgitte Seierøe Pedersen, Region Hovedstaden  
 Søren Ærendahl Mikkelsen, Lakeside  
 Erik Nielsen, Systematic  
 Jan Bannebjerg, Region Sjælland  
 Petur Carbel, Region Sjælland  
 Lars Simesen, Region Midtjylland  
 Jonas Granlie, Region Syddanmark  
 Kevin Donovan, Region Syddanmark  
 Henrik Bærbak Christensen, AU  
 Michael Due Madsen, MedCom  
 Jan Petersen, MedCom  
 Kresten Givskov, Simens (for Medicoindustrien)  
 Christian Graversen, DI (for DI)  
 Jacob Boye Hansen, Carecom  
 Thor Schliemann, NSI

Morten Bruun-Rasmussen from MEDIQ assisted as consultant in connection with preparation of this profile.

## 1.3 Document Sharing

### 1.3.1 Cross-Enterprise Document Sharing (XDS)

IHE XDS enables healthcare documents to be shared over a wide area network, between hospitals, primary care providers, social services and others in the patients' circle or web of care. Rather than having one big database at the centre, IHE XDS fits the distributed collaborative approach to sharing clinical documents where they are held in different organizations. The primary components in XDS are a centralized Registry and one or more local Repositories. The XDS Registry stores metadata, which is queried to retrieve documents, while local XDS Repositories store the actual documents. The Registry and Repositories are logically and physically separate. A book library provides an analogy for explaining how XDS works: A library has books and a central index. An index entry for each book points to where to find the book on the library shelves together with brief details of the content. In the same way, the XDS Registry contains standardized metadata describing the content of each item and where to find it. The Repository may contain any type of electronic content much like the library shelves may contain any type of book or other media. Every item in the Repository has corresponding metadata in the Registry just as every book in the library has an entry in the index. XDS enables external user applications to retrieve documents from one or more repositories in a quick and consistent way. Each document is retrieved in its original form, which may be structured or unstructured. Every XDS implementation has five actors: Document Source, Document Repository, Document Registry, Document Consumer and Patient Identity Source.



**Figure 1. XDS transaction diagram**

#### 1.3.1.1 Patient Identity Source

The Patient Identity Source provides a unique XDS identifier for each and every patient in the affinity domain. In Denmark we are using the CPR-number for this XDS patient identifier

#### 1.3.1.2 Document Source

The Document Source submits HL7 CDA documents (or other documents) to a (local) Document Repository. Each organization may maintain its own Repository.

#### 1.3.1.3 Document Repository

The Document Repository provides a persistent store for each document. It assigns a uniqueId to each document for subsequent retrieval by a Document Consumer.

As the information in the document is persistent, it is not intended to be updated once the document is registered (just as the document content and metadata itself will not be updated without replacing the previous document).

#### 1.3.1.4 Document Registry

The Document Registry provides an index to all registered documents in the repositories about each patient using the patient identifier as the key. One Registry can index documents in any number of Repositories. It maintains a link (pointer) back to the Repository where each document is stored. The Registry supports queries to find metadata about documents irrespective of where they are actually stored. To maintain security, the Registry has no access to the content of any document, but relies only on standardized metadata to retrieve relevant documents.

#### 1.3.1.5 Document Consumer

The Document Consumer submits queries to the Registry to get document metadata meeting specified query criteria, which are then used for locating the repository and retrieving the actual document from it.

### 1.3.2 OID's used in Danish metadata

More of the metadata attributes are derived from national and international classifications. A "coded" attribute include three values:

- code (the id in the classification)
- displayName (the value for the code)
- codeSystem (the OID for the used classification)

The table below shows the classification systems used in this document including the used OID's. The table is consistent with the OID's and classifications used in the Danish PHMR profile.



**Table 1. OID used in IHE Metadata**

Description	OID	Responsible organization
LOINC	2.16.840.1.113883.6.1	Regenstrief
CPR-number root	2.16.840.1.113883.3.4208.100.2	Indenrigsministeriet
SOR	1.2.208.176.1.1	SSI/NSI
Provider register (Da: Yder register)	2.16.840.1.113883.3.4208.100.3	SSI/NSI
DK IHE classCodes	2.16.840.1.113883.3.4208.100.9	SSI/NSI
DK IHE formatCodes	2.16.840.1.113883.3.4208.100.10	SSI/NSI
DK IHE healthCareFacilityTypeCodes	2.16.840.1.113883.3.4208.100.11	SSI/NSI

More information on the classification systems are described in appendix 1.

### 1.3.3 XDS Metadata attributes: Reading instructions

The XDS metadata attributes are described in chapter 2, using a uniform template.

#### 1.3.3.1 Attribute - Basic information

A table shows the basic information for the attributes:

Entity	Optionality	Data type	Source
DocumentEntry SubmissionSet	M	XON	CDA (transformation)

Entity: The entity/entities, where the attribute are used.

Optionality: The optionality for the attribute according to Table 3.

Data type: The data type for the attribute (HL7 v2 data types).

Source: The data source for the attribute according to Table 4. The text (transformation) informs that the CDA data, which are based on HL7 v3 data types, shall be transformed to HL7 v2 data types.

#### 1.3.3.2 Attribute – Description

The description section is related to understand the use of the attribute in Denmark. More information regarding the attribute can be found in the background documents as listed in section 1.1 of this document.

#### 1.3.3.3 Attribute – Coding

This section describes how the coding of the attributes shall be done for the use in Denmark.

The section also includes (when applicable) colored boxes with examples on mapping to HL7 CDA, other requirements (RDK) and an XML metadata example.

## 2 DANISH XDS METADATA ATTRIBUTES FOR CDA DOCUMENTS

### 2.1 Overview of Danish XDS Metadata for CDA documents

The three tables below shows an overview of the Danish Metadata for CDA documents.

Table 2 shows the sources to be used for the metadata attributes.

**Table 2. Metadata Attribute Code Definitions for Source**

Code	Data source
CDA	The data can be retrieved directly from a CDA document.
RDK	Relevant for use in Denmark
AUT	Automatic generated Metadata assigned by either registry or repository.

Table 3 shows the optionality for the metadata attributes.

**Table 3. Metadata Attribute Optionality Code Definitions**

Code	Optionality
R	Mandatory
R2	Required (when known)
O	Optional

Table 4 shows the metadata attributes, their optionality, and data sources. For this profile, the optionality in force is given in the column DK, while the optionality in the column IHE is for reference only.

**Table 4. Metadata Attributes optionality and sources.**

Metadata Attribute	DocumentEntry	SubmissionSet	Optionality		Source
			IHE	DK	
Author	X	X	R	R	
author.authorInstitution	X	X		R	CDA
author.authorperson	X	X		R	CDA
availabilityStatus	X	X	R	R	RDK
classCode	X		R	R	RDK
confidentialityCode	X		R	R	CDA
contentTypeCode		X	R	-	CDA
creationTime	X		R	R	CDA

entryUUID	X	X	R	R	AUT
eventCodeList	X		O	R2	CDA
formatCode	X		R	R	RDK
hash <sup>ii</sup>	X		M	R	AUT
healthcareFacilityTypeCode	X		R	R	RDK
homeCommunityId	X	X	R	R	AUT
languageCode	X		R	R	CDA
legalAuthenticator	X		O	R2	CDA
mimeType	X		R	R	RDK
objectType	X		M	R	RDK
patientId	X		M	R	CDA
practiceSettingCode	X		R	-	RDK
referenceIdList	X		O	O	RDK
repositoryUniqueId	X		R	R	AUT
serviceStartTime	X		R2	R2	CDA
serviceStopTime	X		R2	R2	CDA
size <sup>iii</sup>	X		R	R	AUT
sourcePatientId	X		R	R	CDA
sourcePatientInfo	X		R	R	CDA
submissionTime		X	R	R	RDK
title	X	X	O	R	CDA
typeCode	X		R	R	CDA
uniqueId	X	X	R	R	CDA

## 2.2 Attribute definitions

### 2.2.1 author

#### General information:

Entity	Optionality	Data type	Source
DocumentEntry SubmissionSet	R	See below	See below

#### General information:

The author attributes of DocumentEntry and SubmissionSet represent the humans and/or machines that authored the document or SubmissionSet. The author attribute defines a structure to hold its sub-attributes that are individually defined:

- authorInstitution
- authorPerson
- authorRole
- authorSpecialty
- authorTelecommunication

<sup>ii</sup> This attribute is prohibited for on-demand type of documents.

<sup>iii</sup> This attribute is prohibited for on-demand type of documents.

Each sub-attribute is further described below.

#### 2.2.1.1 authorInstitution

Entity	Optionality	Data type	Source
DocumentEntry, SubmissionSet	R	XON	CDA (transformation)

#### Description:

This is a sub-attribute of the author attribute.

The authorInstitution element describes the organization, in which the document was created.

#### Coding:

The format of the authorInstitution value is XON.

This specification restricts the coding to include the following fields:

- XON.1 - Organization Name (displayName)
- XON.6.2 - Assigning Authority (codeSystem)
- XON.10 Organization Identifier (code)

No other fields shall be specified.

#### CDA reference:

The mapping shall include the following values from the CDA as listed below.

#### The name of the institution:

**\$displayName** = ClinicalDocument/author/assignedAuthor/representedOrganization/**name**

#### The associated OID for "Sundhedsvæsenets Organisations Register" (SOR):

**\$codeSystem** = ClinicalDocument/author/assignedAuthor/id/**@root**

#### The id for the institution in "Sundhedsvæsenets Organisations Register":

**\$code** = ClinicalDocument/author/assignedAuthor/id/**@extension**

#### Example values in the DK PHMR CDA is:

**\$code** = "88878685"

**\$displayName** = "Odense Universitetshospital – Svendborg Sygehus"

**\$codeSystem** = "1.2.208.176.1"

#### XML example:

```
<rim:Slot name="authorInstitution">
  <rim:ValueList>
    <rim:Value>Odense Universitetshospital – Svendborg Sygehus^^^^&
      1.2.208.176.1&ISO^^^^88878685</rim:Value>
    </rim:ValueList>
  </rim:Slot>
```

## 2.2.1.2 authorPerson

### General information:

Entity	Optionality	Data type	Source
DocumentEntry SubmissionSet	R	XCN	CDA (transformed)

### Description:

This is a sub-attribute of the author attribute.

Represents the person and/or machines that authored the document or SubmissionSet within the authorInstitution. The author may be the patient itself.

### Coding:

The format of the authorPerson value is XCN.

This specification restricts the coding to include the following fields:

- Last Name
- First Name
- Second and Further Given Names

No other fields shall be specified.

#### CDA reference:

The name requires a last (family) name and a first (given) name. One or more middle names can be inserted after the first name. All middle names (Second and Further Given Names) shall be concatenated into one string separated by a “&”.

The mapping includes the following values from the CDA as listed below.

#### The last name (family) for the person:

**\$last\_name** = ClinicalDocument/author/assignedAuthor/name/**family**

#### The first name (given) of the person:

**\$first\_name** = ClinicalDocument/author/assignedAuthor/name/**given**

#### The middle name (if any):

**\$middle\_name** ClinicalDocument/author/assignedAuthor/name/**given**

#### Example values in the DK PHMR CDA is:

\$last\_name = “Andersen”

\$first\_name = “Anders”

\$middle\_name = “Frederik Ingolf”

#### XML example:

```
<rim:Slot name="authorPerson">
  <rim:ValueList>
```

```
<rim:Value>^Andersen^Anders^Frederik&Ingolf ^^^^^&ISO</rim:Value>
</rim:ValueList>
</rim:Slot>
```

### 2.2.1.3 authorRole

The authorRole is not used in this profile.

### 2.2.1.4 authorSpecialty

The authorSpecialty is not used in this profile.

### 2.2.1.5 authorTeleCommunication

The authorTeleCommunication is not used in this profile.

## 2.2.2 availabilityStatus

### General information:

Entity	Optionality	Data type	Source
DocumentEntry SubmissionSet	R	Predefined URN	RDK

### Description:

Represents the status of the DocumentEntry. A DocumentEntry shall have one of two availability statuses:

- Approved (The document is available for patient care).
- Deprecated (The document is obsolete)

It is always set to Approved as a result of the successful submission of new documents. It may be changed to Deprecated under the primary responsibility of the creating entity.

### Coding:

The format of the availabilityStatus value is a URN.

In a query response the value is coded in the status attribute of the ExtrinsicObject representing the DocumentEntry and shall be "urn:oasis:names:tc:ebxml-regrep:StatusType:Approved" or "urn:oasis:names:tc:ebxml-regrep:StatusType:Deprecated". The example below shows the status attribute.

XML example:

```
<ExtrinsicObject
  id="urn:uuid:fbeacdb7-5421-4474-9267-985007cd8855"
  objectType="urn:uuid:7edca82f-054d-47f2-a032-9b2a5b5186c1"
  status="urn:oasis:names:tc:ebxml-regrep:StatusType:Approved">
```

### 2.2.3 classCode

**General information:**

Entity	Optionality	Data type	Source
DocumentEntry	R	Code	RDK

**Description:**

The classCode attribute specifies the high-level use classification of the document type (e.g., Clinical Document, Report, Image and Treatment Plan).

The classCode attribute is related to the typeCode and has a higher degree of granularity for the classification of the document. The typeCode attribute (see 2.2.32) specifies the precise type of document from the user perspective.

In this profile, the classCode is given by values in the code system DK IHE classCodes described in section 3.7.

**Coding:**

There shall be exactly one ebRIM Classification containing a classCode for any DocumentEntry. For the classCode metadata attribute, the classificationScheme shall be urn: urn:uuid:41a5887f-8865-4c09-adf7-e362475b143a.

RDK reference:

The code shall be a valid value for the document type.

The codeSystem shall be the associated OID for “DK IHE classCodes”

The displayName shall be the name for the document type found in the code system “DK IHE classCodes”.

Example values:

**\$code** = “001”

**\$displayName** = “Klinisk rapport”

**\$codeSystem** = ”2.16.840.1.113883.3.4208.100.9”

XML example:

```
<rim:Classification
  classificationScheme="urn:uuid:41a5887f-8865-4c09-adf7-e362475b143a"
```



```
classifiedObject="ExampleDocument"
id="IdExample_046"
objectType="urn:oasis:names:tc:ebxml-
regrep:ObjectType:RegistryObject:Classification"
nodeRepresentation="001"
>
<rim:Name>
  <rim:LocalizedString
    value="Klinisk rapport"/>
  </rim:Name>
  <rim:Slot name="codingScheme">
    <rim:ValueList>
      <rim:Value>2.16.840.1.113883.4208.100.9</rim:Value>
    </rim:ValueList>
    </rim:Slot>
  </rim:Classification>
```

#### 2.2.4 comments

Not used in this profile.

#### 2.2.5 confidentialityCode

##### General information:

Entity	Optionality	Data type	Source
DocumentEntry	R	Code	CDA

##### Description:

The confidentialityCode specifies the confidentiality assigned to the document.

##### Coding:

The confidentialityCode SHALL contain exactly one value from the HL7 code system.

For the confidentialityCode metadata attribute, the classificationScheme shall be urn:uuid:f4f85eac-e6cb-4883-b524-f2705394840f.

##### CDA reference:

```
$code = ClinicalDocument/confidentialityCode/@code
$displayName = ClinicalDocument/confidentialityCode/@displayName
$codeSystem = ClinicalDocument/confidentialityCode/@codeSystem
```

##### Example values in the DK PHMR CDA is:

```
$code = "N"
$displayName = "Normal"
$codeSystem = "2.16.840.1.113883.5.25"
```

XML example:

```
<rim:Classification
  classificationScheme=
    "urn:uuid:f4f85eac-e6cb-4883-b524-f2705394840f"
  classifiedObject="ExampleDocument"
  id="IdExample_046"
  objectType="urn:oasis:names:tc:ebxml-
    regrep:ObjectType:RegistryObject:Classification"
  nodeRepresentation="N">
  <rim:Name>
    <rim:LocalizedString value="Normal"/>
  </rim:Name>
  <rim:Slot name="codingScheme">
    <rim:ValueList>
      <rim:Value>2.16.840.1.113883.5.25</rim:Value>
    </rim:ValueList>
  </rim:Slot>
</rim:Classification>
```

## 2.2.6 contentTypeCode

The contentTypeCode is not used in this profile.

## 2.2.7 creationTime

### General information:

Entity	Optionality	Data type	Source
DocumentEntry	R	DTM	CDA (transformed)

### Description:

Represents the time the author created the document.

### Coding:

The format of the creationTime value is data type DTM.

The value is coded as a single value within an ebRIM Slot in the DocumentEntry. The creationTime shall be precise to the second.

CDA reference:

**\$value** = ClinicalDocument/effectiveTime/@value

Note: The CDA data type for time is TS, which includes an offset from UTC. In the XDS metadata the data type for time is DTM, which shall be given in UTC timezone. This requires that the value for time in the CDA shall be transformed (**\$value\_DTM**) before it is used for the XDS metadata.

Example:  
December 25, 2014 21:20:10 UTC

XML example:

```
<rim:Slot name="creationTime">
  <rim:ValueList>
    <rim:Value>20141225212010</rim:Value>
  </rim:ValueList>
</rim:Slot>
```

## 2.2.8 entryUUID

### General information:

Entity	Optionality	Data type	Source
DocumentEntry	R	String	AUT

### Description:

The entryUUID attribute is a globally unique identifier primarily intended for internal document management purposes. In contrast, the uniqueId attribute is used for external references (e.g., links, etc.).

UUIDs shall be version 4 and represented in the form XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX, where each X is a character from the set [A-Fa-f0-9].

### Coding:

The format of the entryUUID value is UUID.

At time of registration, certain Document Sharing transactions may allow symbolic Ids (anything that does not have the urn:uuid: prefix) to be used. Once submitted and received by a Document Registry or Repository, symbolic Ids will be replaced by UUID values. The value of the entryUUID is coded in the id XML attribute on the ExtrinsicObject representing the DocumentEntry. In the example below, the entryUUID is urn:uuid:a6e06ca8-0c75-4064-9e5c-88b9045a96f6.

XML example:

```
<rim:ExtrinsicObject mimeType="text/xml"
  id="urn:uuid:a6e06ca8-0c75-4064-9e5c-88b9045a96f6"
  objectType="urn:uuid:7edca82f-054d-47f2-a032-9b2a5b5186c1"
  > ...
```

## 2.2.9 eventCodeList

### General information:

Entity	Optionality	Data type	Source
DocumentEntry	R2	Code	CDA

### Description:

This list of codes represents the main clinical acts documented for the patient contact.

In health care the clinical process for the treatment of individual patients are based on evidence. The evidence for the individual patient is achieved by performing one or more examinations. The outcome of an examination is clinical "documents", which for example includes clinical chemistry results, vital signs, images and clinical notes. Based on the outcome of the examinations, the health professionals will be able to point out a diagnose for the patients illness, e.g. diabetes. In many cases the diagnosis are tentative and more examinations is needed to point out the "final" diagnose, which describes the patients' health problem.

In health care, examinations are procedures, which describe the work to be done, e.g. pulmonary function testing, diabetes annual care review or blood pressure control. For each procedure the related outcome is "pre-defined" and may include a number of values, which in total will form the result for the examination. In several cases, the individual values cannot be used from an examination without maintaining its overall context.

### Coding:

The codes shall be procedure codes used in the Danish health care systems. In hospital the procedure codes are subsets of SKS-codes<sup>iv</sup>.

The eventCodeList is coded with ebRIM Classification objects. There may be zero, one, or more ebRIM Classifications containing a code and additional eventCode entries are coded by specifying multiple classification objects. For the eventCodeList metadata attribute, the classificationScheme shall be urn:uuid:2c6b8cb7-8b2a-4051-b291-b1ae6a575ef4.

#### CDA reference:

The mapping includes the following values from the CDA as listed below.

The code for the procedure in "Sundhedsvæsenets Klassifikationssystem"

**\$code** =

<sup>iv</sup> <http://www.medinfo.dk/sks/brows.php>

ClinicalDocument/documentationOf[n]/serviceEvent/Code/@code

The official SKS name of the procedure:

**\$displayName** =

ClinicalDocument/documentationOf[n]/serviceEvent/Code/@displayName

The associated OID for "Sundhedsvæsenets Klassifikationssystem":

**\$codeSystem** =

ClinicalDocument/documentationOf[n]/serviceEvent/Code/@codeSystem

Example values:

\$code = "ZZ3160"

\$displayName = "Blodtryksmåling"

\$codeSystem = "2.16.840.1.113883.3.4208.100.5"

XML example:

```
<rim:Classification
  classificationScheme=
    "urn:uuid:2c6b8cb7-8b2a-4051-b291-b1ae6a575ef4"
  classifiedObject="ExampleDocument"
  id="IdExample_048"
  objectType="urn:oasis:names:tc:ebxml-
    regrep:ObjectType:RegistryObject:Classification"
  nodeRepresentation="ZZ3160"
>
  <rim:Name>
    <rim:LocalizedString value="Blodtryksmåling"/>
  </rim:Name>
  <rim:Slot name="codingScheme">
    <rim:ValueList>
      <rim:Value>2.16.840.1.113883.3.4208.100.5</rim:Value>
    </rim:ValueList>
    </rim:Slot>
  </rim:Classification>
```

## 2.2.10 formatCode

### General information:

Entity	Optionality	Data type	Source
DocumentEntry	R	code	RDK

### Description:

The formatCode element describes the format of the document with respect to achieve the agreed level of semantic interoperability.

The formatCode shall be sufficiently specific to ensure processing/display by identifying a document encoding, structure and template (e.g., for a CDA Document, the fact that it complies with a CDA schema, possibly a template and the choice of a content-specific style sheet).

The formatCode allows a receiving system (Document Consumer Actor) to identify the processing to be done and thus the correct representation of the content in the document.

The CDA Schema is not an element for an automatic mapping. However, in a CDA document the formatCode can be derived from the clinicalDocument/templateId.

### Coding:

There shall be one ebRIM Classification containing a formatCode. For the formatCode metadata attribute, the classificationScheme shall be urn:uuid: a09d5840-386c-46f2-b5ad-9c3699a4309d. Any valid URN may be used as a formatCode.

#### RDK reference:

The code shall be a valid value for the formatCode.

The codeSystem shall be the associated OID for the list of "DK IHE formatCodes"

The displayName shall be the name for the document type found in the list of "DK IHE formatCodes"

#### Example values:

**\$code** = "urn:ad:dk:medcom:phmr:full"

**\$displayName** = "DK PHMR schema"

**\$codeSystem** = "urn:ad:dk:medcom:phmr:full"

```
<rim:Classification
  classificationScheme=
    "urn:uuid:a09d5840-386c-46f2-b5ad-9c3699a4309d"
  classifiedObject="ExampleDocument"
  id="IdExample_049"
  objectType="urn:oasis:names:tc:ebxml-
    regrep:ObjectType:RegistryObject:Classification"
  nodeRepresentation="DK PHMR schema"
>
  <rim:Name>
    <rim:LocalizedString value="DK PHMR schema"/>
  </rim:Name>
  <rim:Slot name="codingScheme">
    <rim:ValueList>
      <rim:Value>urn:ad:dk:medcom:phmr:full</rim:Value>
    </rim:ValueList>
  </rim:Slot>
</rim:Classification>
```

## 2.2.11 hash

**General information:**

Entity	Optionality	Data type	Source
DocumentEntry	R	SHA1	AUT

**Description:**

The hash of the contents of the document is filled by the repository

**Coding:**

The format of the hash value is SHA1 hash.

The value is coded as a case-insensitive single value within an ebRIM Slot in the DocumentEntry.

```
<rim:Slot name="hash">
  <rim:ValueList>
    <rim:Value>da39a3ee5e6b4b0d3255bfef95601890afd80709</rim:Value>
  </rim:ValueList>
</rim:Slot>
```

## 2.2.12 healthcareFacilityTypeCode

**General information:**

Entity	Optionality	Data type	Source
DocumentEntry	R	Code	RDK

**Description:**

This code represents the type of organizational setting of the clinical encounter during which the documented act occurred.

**Coding:**

There shall be one ebRIM Classification containing a healthcareFacilityTypeCode. For the healthcareFacilityTypeCode metadata attribute the classificationScheme shall be urn:uuid:f33fb8ac-18af-42cc-ae0e-ed0b0bdb91e1.

In this profile, the healthcareFacilityCode is given by values in the code system DK IHE healtgcareFacilityCodes described in section 3.10.

RDK reference:

The code shall be a valid value for the health care facility type.

The codeSystem shall be the associated OID for the list of "DK IHE healthCareFacilityTypeCodes"

The displayName shall be the name for the health care facility type found in the list of "DK IHE health care facility types"

Example values:

**\$code** = "22232009"

**\$displayName** = "hospital"

**\$codeSystem** = "2.16.840.1.113883.3.4208.100.11"

XML example:

```
<rim:Classification
  classificationScheme=
    "urn:uuid:f33fb8ac-18af-42cc-ae0e-ed0b0bdb91e1"
  classifiedObject="ExampleDocument"
  id="IdExample_050"
  objectType="urn:oasis:names:tc:ebxml-
  regrep:ObjectType:RegistryObject:Classification"
  nodeRepresentation="2.16.840.1.113883.3.4208.100.11">
  <rim:Name>
    <rim:value "hospital"/>
  </rim:Name>
  <rim:Slot name="codingScheme">
    <rim:ValueList>
      <rim:Value>22232009</rim:Value>
    </rim:ValueList>
  </rim:Slot>
</rim:Classification>
```

## 2.2.13 homeCommunityId

### General information:

Entity	Optionality	Data type	Source
DocumentEntry	R	OID URN	AUT

### Description:

A unique identifier for a community where the DocumentEntry and document can be accessed.

According ITI XCA: A unique identifier (OID) for a "community" that is used subsequently to the corresponding web service endpoint (URI of the XCA Responding gate way (s)) to obtain.

### Coding:



Max length is unbounded. Contained in the ebRS ExtrinsicObject home attribute for the ExtrinsicObject that corresponds to the DocumentEntry.

XML example:

```
<rim:ExtrinsicObject home="urn:oid:1.2.3" ...>
...
</rim:ExtrinsicObject>
```

## 2.2.14 intendedRecipient

Entity	Optionality	Data type	Source
SubmissionSet	O	XON, XCN, XTN	-

For use with Cross Enterprise Document Workflow (XDW).

Currently not used in this profile.

## 2.2.15 languageCode

### General information:

Entity	Optionality	Data type	Source
DocumentEntry	R	CS	CDA

### Description:

The languageCode specifies the language of the document.

### Coding:

The languageCode shall be in the form nn-CC.

The nn portion shall be a legal IS-639-1 language code in lower case.

The CC portion, if present, shall be an ISO-3166 country code in upper case.

CDA reference:

**\$code** = ClinicalDocument/languageCode/@code

Example values in the DK PHMR CDA is:

**\$code** = "da-DK"

XML example:

```
<rim:Slot name="languageCode">
  <rim:ValueList>
    <rim:Value>"da-DK"</rim:Value>
```

```
</rim:ValueList>
</rim:Slot>
```

## 2.2.16 legalAuthenticator

### General information:

Entity	Optionality	Data type	Source
DocumentEntry	R	XCN	CDA (transformation)

### Description:

The legalAuthenticator represents a participant within the authorInstitution who has legally authenticated or attested the document.

### Coding:

Max length is 256 characters. This attribute shall be absent if not applicable. The value is coded as a single value within an ebRIM Slot in the DocumentEntry. The format of the legalAuthenticator value is XCN.

This specification restricts the coding to include the following fields:

- Last Name
- First Name
- Second and Further Given Names

No other fields shall be specified.

#### CDA reference:

The name requires a last (family) name and a first (given) name. One or more middle names can be inserted after the first name. All middle names (Second and Further Given Names) shall be concatenated into one string separated by a “&”.

The mapping includes the following values from the CDA as listed below.

**\$person** = ClinicalDocument/legalAuthenticator/assignedEntity/assignedPerson

The last name (family) for the person:

**\$last\_name** = \$person/family

The first name (given) of the person:

**\$first\_name** = \$person/given[1]

The middle name (if any and concatenated into one string):

**\$middle\_name** = \$person/given[2]”&”given[3]..

Example values in the DK PHMR CDA is:

**\$last\_name** = “Andersen”

```
$first_name = "Anders"
$middle_name = "Frederik Ingolf"
```

#### XML example

```
<rim:Slot name="legalAuthenticator">
  <rim:ValueList>
    <rim:Value>^Andersen^Ander^ Frederik&Ingolf^^^^^^&&ISO</rim:Value>
  </rim:ValueList>
</rim:Slot>
```

### 2.2.17 limitedMetadata

Entity	Optionality	Data type	Source
DocumentEntry	O	-	-

This attribute is not used in this profile.

### 2.2.18 mimeType

#### General information:

Entity	Optionality	Data type	Source
DocumentEntry	R	String	RDK

#### Description:

The mimeType element describes the "Internet Media Type" of the document in accordance with the "MIME" (MIME) standard. The standard is described in RFC 2045 to RFC 2049.

#### Coding:

The maximum length is unbounded. Shall have only a single value. Encoded in the ebRS ExtrinsicObject mimeType attribute for the ExtrinsicObject that corresponds to the DocumentEntry.

#### RDK reference:

In the case of CDA R2 documents, the MimeType according to IHE is always fixed to "text/xml".

#### XML example:

```
<rim:ExtrinsicObject mimeType="text/xml"
  id="ExampleDocument"
  objectType="urn:uuid:7edca82f-054d-47f2-a032-9b2a5b5186c1">
```

## 2.2.19 objectType

### General information:

Entity	Optionality	Data type	Source
DocumentEntry	R	UUID	RDK

### Description:

The objectType attribute reflects the type of DocumentEntry. There are two DocumentEntry types: Stable Document Entry and On-Demand Document Entry.

A Stable Document Entry contains metadata about an already created document available for retrieval. This document is stable because the contents have been effectively combined in the exact representation that will be returned in a Retrieve Document Set. A Stable Document Entry is an XDSDocument Entry with objectType equal to the UUID for Stable and availabilityStatus = Approved or Deprecated. All metadata fields contain valid values. If the document returned on a retrieve request is CDA, it will have in the ClinicalDocument/id in the HL7 CDA R2 header the same value of the DocumentEntry uniqueId.

An On-Demand DocumentEntry contains metadata which can be used to create an on-demand document which collects the latest, most recent available information at the time of retrieval. It is designed by setting an objectType equal to the UUID for on-demand. On-Demand Document Entries never reflect actual document content, but rather the potential for a document with the characteristics described in the metadata of the entry. An On-Demand Document Entry may be replaced and deprecated.

### Coding:

Max length is unbounded. The format of the objectType value is UUID. The value of the objectType is coded in the objectType XML attribute on the ExtrinsicObject representing the DocumentEntry. In the example below, the objectType is urn:uuid:7edca82f-054d-47f2-a032-9b2a5b5186c1 and reflects a stable DocumentEntry.

#### XML example:

```
<rim:ExtrinsicObject mimeType="text/xml"
  id="urn:uuid:a6e06ca8-0c75-4064-9e5c-88b9045a96f6"
  objectType="urn:uuid:7edca82f-054d-47f2-a032-9b2a5b5186c1"
> ...
```

## 2.2.20 patientId

The patientId attribute shall be used in this profile (see the specification for the sourcePatientId attribute).

## 2.2.21 practiceSettingCode

The practiceSettingCode is not used in this profile.

### General information:

Entity	Optionality	Data type	Source
DocumentEntry	-	Code	RDK

### Description:

The practiceSettingCode specifies the clinical specialty where the act that resulted in the document was performed (e.g., General Practice, Laboratory, and Radiology). It should reflect the department which best matches the contents of the document, regardless of the field of study of the author or the creating department.

### Coding:

RDK reference: (\*\* To be discussed)

```
$code = "Unknow"
$displayName = "Unknow"
$codeSystem = "2.16.840.1.113883.11.10612"
```

XML example:

```
<rim:Classification
  ClassificationScheme="urn:uuid:cccf5598-8b07-4b77-a05e-ae952c785ead"
  classifiedObject="ExampleDocument"
  id="IdExample_052"
  objectType="urn:oasis:names:tc:ebxml-
  regrep:ObjectType:RegistryObject:Classification"
  nodeRepresentation="$codeSystem">
  <rim:Name>
    <rim:LocalizedString
      value="$displayName"/>
    </rim:Name>
    <rim:Slot name="codingScheme">
      <rim:ValueList>
        <rim:Value>$code</rim:Value>
        </rim:ValueList>
      </rim:Slot>
    </rim:Classification>
```

## 2.2.22 referenceIdList

### General information:

Entity	Optionality	Data type	Source
DocumentEntry	O	CXi	RDK

### Description:

This list contains zero, or more Identifiers. These Identifiers may be internal or external identifiers. The referenceIdList contains Identifiers CXi encoded.

XDS Document Registry Actors supporting the ReferenceId Option shall preserve this value.

### Coding:

Coded as an ebRIM Slot. May have multiple values. Max length for each value is 256 characters. The name of the slot in the metadata shall be "urn:ihe:iti:xds:2013:referenceIdList".

#### XML example:

```
<rim:Slot name="urn:ihe:iti:xds:2013:referenceIdList ">
  <rim:ValueList>
    <rim:Value>
      2013001^^^&1.2.3.4.5.6&ISO^urn:ihe:iti:xds:2013:accession
    </rim:Value>
    <rim:Value>
      1.2.3.12.78.23^^^^urn:ihe:iti:xds:2013:uniqueId^&1.2.3.4&ISO
    </rim:Value>
  </rim:ValueList>
</rim:Slot>
```

## 2.2.23 repositoryUniqueId

### General information:

Entity	Optionality	Data type	Source
DocumentEntry	R	OID	AUT

### Description:

The repositoryUniqueId is a globally unique, immutable identifier of the repository where the document referenced by the Document Entry can be accessed. This unique identifier for the repository may be used to identify and connect to the specific repository to access the document.

### Coding:

Maximum length is 64 characters. The format of the repositoryUniqueId value is OID.

The value is coded as a single value within an ebRIM Slot in the DocumentEntry.

#### XML example:

```
<rim:Slot name="repositoryUniqueId">
  <rim:ValueList>
    <rim:Value>1.3.6.1.4.5</rim:Value>
  </rim:ValueList>
</rim:Slot>
```

## 2.2.24 serviceStartTime

### General information:

Entity	Optionality	Data type	Source
DocumentEntry	R2	DTM	CDA (transformed)

### Description:

Represents the start time of the clinical act being documented took place (clinically significant, but not necessarily when the document was produced or approved). This may be the same as the encounter time in case the service was delivered during an encounter. Encounter time is not coded in metadata but may be coded within the document.

Note: If needed, other times associated with the document, such as time of approval, are to be recorded within the document.

### Coding:

The format of the serviceStartTime value is DTM. The creationTime shall be precise to the second.

The value is coded as a single value within an ebRIM Slot Attribute in the DocumentEntry.

#### CDA reference:

**\$value =**  
ClinicalDocument/documentationOf/serviceEvent/effectiveTime/low/@value

Note: The CDA data type for time is TS, which includes an offset from UTC. In the XDS metadata the data type for time is DTM, which shall be given in UTC timezone. This requires that the value for time in the CDA shall be transformed (**\$value\_DTM**) before it is used for the XDS metadata.

Example value:  
December 25, 2014 21:20:10 UTC

```
<rim:Slot name="serviceStartTime">
  <rim:ValueList>
    <rim:Value>20141225212010</rim:Value>
  </rim:ValueList>
</rim:Slot>
```

## 2.2.25 serviceStopTime

### General information:

Entity	Optionality	Data type	Source
DocumentEntry	R2	DTM	CDA (transformed)

### Description:

Represents the stop time of the service being documented took place (clinically significant, but not necessarily when the document was produced or approved). This may be the same as the encounter time in case the service was delivered during an encounter. Encounter time is not coded in metadata but may be coded within the document. If the service happens at a point in time, this attribute shall contain the same value as the serviceStartTime.

### Coding:

The format of the serviceStopTime value is DTM. The creationTime shall be precise to the second.

The value is coded as a single value within an ebRIM Slot Attribute in the DocumentEntry.

CDA reference:

**\$value =**  
ClinicalDocument/documentationOf/serviceEvent/effectiveTime/high/@value



Note: The CDA data type for time is TS, which includes an offset from UTC. In the XDS metadata the data type for time is DTM, which shall be given in UTC timezone. This requires that the value for time in the CDA shall be transformed (**\$value\_DTM**) before it is used for the XDS metadata.

Example values in the DK PHMR CDA is:  
December 25, 2014 21:20:10 UTC

```
<rim:Slot name="serviceStopTime">
  <rim:ValueList>
    <rim:Value>20141225212010</rim:Value>
  </rim:ValueList>
</rim:Slot>
```

## 2.2.26 size

### General information:

Entity	Optionality	Data type	Source
DocumentEntry	R	Integer	AUT

### Description:

Size in bytes of the byte stream that comprises the document.

### Coding:

Max length of the encoded size is 256 characters. Coded as an ebRIM Slot. Shall have only a single value.

#### XML example:

```
<rim:Slot name="size">
  <rim:ValueList>
    <rim:Value>3654</rim:Value>
  </rim:ValueList>
</rim:Slot>
```

## 2.2.27 sourceId

Not used in this profile.

## 2.2.28 sourcePatientId

### General information:

Entity	Optionality	Data type	Source
DocumentEntry	R	CX	CDA

			(transformed)
--	--	--	---------------

### Description:

The sourcePatientId represents the patients unique identifier(CPR number).

Your municipality of residence is responsible for assigning a civil registration number (CPR number). The Central Office of Civil Registration does not assign CPR numbers. CPR can be found in the National Civil Registration System which is sourcePatientId.

### Coding:

Max length is 256 characters. Coded as an ebRIM Slot with the value encoded according the HL7 v2.5 CX data type. It shall contain only two parts:

- An Id (e.g., Patient Id CX.1).
- The Authority Domain Id that assigned the Id (CX.4).

All other CX components shall be omitted.

#### CDA reference:

##### The Danish patient identification (cpr-nummer):

**\$code** = ClinicalDocument/recordTarget/patientRole/Id/@**extension**

##### The associated OID for the National Danish patient registry (cpr):

**\$codeSystem** = ClinicalDocument/recordTarget/patientRole/Id/@**root**

##### Example values in the DK PHMR CDA is:

\$code = "2512484916"

\$displayName = ""

\$codeSystem = 2.16.840.1.113883.3.4208.100.2

#### XML example:

```
<rim:Slot name="sourcePatientId">
  <rim:ValueList>
    <rim:Value>2512484916^^^&2.16.840.1.113883.3.4208.100.2&ISO
    </rim:Value>
  </rim:ValueList>
</rim:Slot>
```

## 2.2.29 sourcePatientInfo

### General information:

Entity	Optionality	Data type	Source
DocumentEntry	R	PID	CDA

			(transformed)
--	--	--	---------------

### Description:

This attribute contains demographics information at the time of submission of the patient to whose medical record this document belongs.

### Coding:

The sourcePatientInfo shall include values for:

- PID-5 (source patient name)
- PID-7 (source patient date of birth)
- PID-8 (source patient gender)

Max length is 256 characters. Coded as an eBRIM Slot.

#### CDA reference:

The mapping includes the following values from the CDA as listed below.

#### The patient name:

The name requires a last (family) name and a first (given) name. One or more middle names can be inserted after the first name. All middle names shall be concatenated into one string separated by a "&".

**\$patient** = ClinicalDocument/recordTarget/patientRole/patient

#### The last name (family) for the person:

**\$last\_name** = \$patient/name/family

#### The first name (given) of the person:

**\$first\_name** = \$patient/name/given[1]

#### The middle name (if any and concatenated into one string):

**\$middle\_name** = \$patient/name/given[2]"&"given[3]..

#### The patient date of birth (format YYYYMMDD):

**\$dateOfBirth** = \$patient/birthTime

#### The patient gender:

**\$gender** = \$patient/administrativeGenderCode/@code

#### Example values in the DK PHMR CDA is:

\$last\_name = "Berggren"

first\_name = "Nancy"

middle\_name = "Ann"

\$dateOfBirth = "19481225"

\$gender = "F"

#### XML example:

```
<rim:Slot name="sourcePatientId">
  <rim:ValueList>
    <rim:Value>Berggren^Nancy^Ann^^19481225^F</rim:Value>
  </rim:ValueList>
</rim:Slot>
```

### 2.2.30 submissionTime

#### General information:

Entity	Optionality	Data type	Source
SubmissionSet	R	DTM	RDK

#### Description:

Represents the point in time at the creating entity when the SubmissionSet was submitted. This shall be provided by the submitting system.

#### Coding:

The format of the submissionTime value is DTM. The submissionTime shall be precise to the second.

#### XML example:

The following example shows a submissionTime of December 25, 2004 21:20:10 Coordinated Universal Time (UTC).

```
<rim:Slot name="submissionTime">
  <rim:ValueList>
    <rim:Value>20141225212010</rim:Value>
  </rim:ValueList>
</rim:Slot>
```

### 2.2.31 title

#### General information:

Entity	Optionality	Data type	Source
DocumentEntry	R	String	CDA

#### Description:

The title element describes the readable title of the document.

#### Coding:

The format of the title attribute shall be any string of length less than 128 characters.

The title attribute is represented in ebXML as the "value" attribute of the LocalizedString element within the ebRIM Name structure. There can be only one ebRIM Name structure per DocumentEntry.

CDA reference:

**\$title** = ClinicalDocument/title

Example values:

**\$title** = "Hjemmemonitorering for 2303439995"

XML example:

```
<rim:ExtrinsicObject
  id="ExampleDocument"
  objectType="urn:uuid:7edca82f-054d-47f2-a032-9b2a5b5186c1"
  mimeType="text/xml">
  <rim:Name>
    <rim:LocalizedString value="Hjemmemonitorering for 2303439995"/>
  </rim:Name>
  ...
</rim:ExtrinsicObject>
```

## 2.2.32 typeCode

### General information:

Entity	Optionality	Data type	Source
DocumentEntry	R	Code	CDA

### Description:

The typeCode specifies the precise type of document from the user perspective.

### Coding:

Coded as an ebRIM classification. Shall have one value.

CDA reference:

The mapping includes the following values from the CDA as listed below.

The code for the document type in LOINC classification system:

**\$code** =  
ClinicalDocument/documentationOf[n]/serviceEvent/Code/@code

The LOINC name for the document type:  
**\$displayName** =  
ClinicalDocument/documentationOf[n]/serviceEvent/Code/@displayName

The associated OID for LOINC:  
**\$codeSystem** =  
ClinicalDocument/documentationOf[n]/serviceEvent/Code/@codeSystem

Example values:  
\$code = "53576-5"  
\$displayName = "Personal Health Monitoring Report"  
\$codeSystem = "2.16.840.1.113883.6.1"

XML example:

```
<rim:Classification
  classificationScheme="urn:uuid:f0306f51-975f-434e-a61c-c59651d33983"
  classifiedObject="ExampleDocument"
  id="IdExample_053"
  objectType="urn:oasis:names:tc:ebxml-
  regrep:ObjectType:RegistryObject:Classification"
  nodeRepresentation="53576-5"
>
  <rim:Name>
    <rim:LocalizedString
      value="Personal Health Monitoring Report"/>
    </rim:Name>
    <rim:Slot name="">
      <rim:ValueList>
        <rim:Value>2.16.840.1.113883.6.1</rim:Value>
      </rim:ValueList>
    </rim:Slot>
  </rim:Classification>
```

### 2.2.33 uniqueId

**General information:**

Entity	Optionality	Data type	Source
DocumentEntry	R	OID	CDA

**Description:**

Globally unique identifier assigned to the document by the creating entity.

A DocumentEntry representing a single document is identified by the uniqueId attribute; the linkage between DocumentEntry and the document it represents is made with the uniqueId attribute.

This unique identifier may be used in other documents to reference this document.

### Coding:

The format of the DocumentEntry.uniqueId value is OID. Coded as an ebRIM ExternalIdentifier which references, and is contained in, the ExtrinsicObject representing the DocumentEntry. There shall be only a single uniqueId value.

#### CDA reference:

$\$uniqueId = \text{ClinicalDocument/id/@root} + ^ + \text{ClinicalDocument/id/@extension}$

Example values in the DK PHMR CDA is:

ClinicalDocument/id/@extension="aa2386d0-79ea-11e3-981f-0800200c9a66"  
ClinicalDocument/id/@root="2.16.840.1.113883.3.4208"

#### XML example:

```
<rim:ExternalIdentifier
  identificationScheme="urn:uuid:2e82c1f6-a085-4c72-9da3-8640a32e42ab"
  value="2.16.840.1.113883.3.4208^aa2386d0-79ea-11e3-981f-0800200c9a66"
  id="IdExample_054"
  objectType="urn:oasis:names:tc:ebxml-
regrep:ObjectType:RegistryObject:ExternalIdentifier"
  registryObject="DocumentEntry01">
  <rim:Name>
    <rim:LocalizedString value="XDSDocumentEntry.uniqueId"/>
  </rim:Name>
</rim:ExternalIdentifier>
```

## 3 APPENDIX 1 – CLASSIFICATION SYSTEMS

### 3.1 LOINC

#### 3.1.1 General information

Logical Observation Identifiers Names and Codes (LOINC) is a database and universal standard for identifying medical laboratory observations. It was developed and is maintained by the Regenstrief Institute, a US non-profit medical research organization, in 1994. LOINC was created in response to the demand for an electronic database for clinical care and management and is publicly available at no cost.

#### 3.1.2 Use

The LOINC codes are mainly used for classifying the type of the document (typeCode), which is derived from the CDA.

The affinity domain is responsible for the use of new LOINC codes.

#### 3.1.3 Other information

OID: 2.16.840.1.113883.6.1

Web: <http://loinc.org/>

Responsible: Regenstrief

### 3.2 CPR

#### 3.2.1 General information

A CPR-number is a unique identification number for Danish Citizens. The CPR-number was introduced in Denmark April 2, 1968.

#### 3.2.2 Use

A valid CPR-number shall be used to identify the patient.

#### 3.2.3 Other information

OID: 2.16.840.1.113883.3.4208.100.2

Web: <https://cpr.dk>

Responsible: Indenrigsministeriet

### 3.3 SOR

#### 3.3.1 General information

Sundhedsvæsenets Organisationsregister (SOR) is a registry for organizations and addresses for the Danish Health Care service.

#### 3.3.2 Use

The registry is used to identify the responsible health organization.



### 3.3.3 Other information

OID: 1.2.208.176.1  
 Web: <http://www.ssi.dk/sor>  
 Responsible: Statens Serum Institut

## 3.4 Yder register

### 3.4.1 General information

Currently not used.

### 3.4.2 Use

### 3.4.3 Other information

OID:  
 Web:  
 Responsible:

## 3.5 Autorisationsregister

### 3.5.1 General information

Currently not used

### 3.5.2 Use

### 3.5.3 Other information

OID:  
 Web:  
 Responsible:

## 3.6 SKS

### 3.6.1 General information

Sygehusvæsenets Klassifikationssystem (SKS) consist of thousands of codes, which are used to deliver structured information to various systems. The codes span over many aspects.

### 3.6.2 Use

The SKS codes are only to be used for the eventCodesList attribute. Only SKS procedure codes shall be used.

### 3.6.3 Other information

OID: 2.16.840.1.113883.3.4208.100.5  
 Web: <http://www.medinfo.dk/sks/index.php>  
 Responsible: Statens Serum Insitut

### 3.7 DK IHE classCodes

#### 3.7.1 General information

DK IHE classCodes are used for the classCode attribute.

#### 3.7.2 Use

At the moment only one code exists:

Code: 001

Displayname: Klinisk rapport

The XDS affinity domain will define more codes on request and when needed.

#### 3.7.3 Other information

OID: 2.16.840.1.113883.3.4208.100.9

Web:

[http://svn.medcom.dk/svn/drafts/Standarder/IHE/OID/DK-IHE\\_Metadata-Common\\_Code\\_systems-Value\\_sets.xlsx](http://svn.medcom.dk/svn/drafts/Standarder/IHE/OID/DK-IHE_Metadata-Common_Code_systems-Value_sets.xlsx)

Owner: Statens Serum Institut

### 3.8 DK IHE formatCodes

#### 3.9 General information

DK IHE formatCodes are used for the formatCode attribute.

#### 3.9.1 Use

At the moment only one code exists:

Code: urn:ad:dk:medcom:phmr:full

Displayname: DK PHMR schema

Document adheres to HL7 PHMR DK profile ver. 1.0.

The XDS affinity domain will define more codes on request and when needed.

#### 3.9.2 Other information

OID: 2.16.840.1.113883.3.4208.100.10

Web:

[http://svn.medcom.dk/svn/drafts/Standarder/IHE/OID/DK-IHE\\_Metadata-Common\\_Code\\_systems-Value\\_sets.xlsx](http://svn.medcom.dk/svn/drafts/Standarder/IHE/OID/DK-IHE_Metadata-Common_Code_systems-Value_sets.xlsx)

Owner: Statens Serum Institut

### 3.10 DK IHE healthCareFacilityCodes

#### 3.10.1 General information

DK IHE healthCareFacilityCodes are used for the healthCareFacilityCode attribute.

#### 3.10.2 Use

The value set for healthcare facility type code represents the type of organizational setting of the clinical encounter during which the documented act occurred. The codeSystem "DK\_IHE\_HealthcareFacilityCodeSystem" is a subset of the code list from the SOR lookuptabel "SOR-Enhedstyper"

#### 3.10.3 Other information

OID: 2.16.840.1.113883.3.4208.100.11

Web:

[http://svn.medcom.dk/svn/drafts/Standarder/IHE/OID/DK-IHE\\_Metadata-Common\\_Code\\_systems-Value\\_sets.xlsx](http://svn.medcom.dk/svn/drafts/Standarder/IHE/OID/DK-IHE_Metadata-Common_Code_systems-Value_sets.xlsx)

Owner: Statens Serum Institut