

**Verein "Elektronische FallAkte"**  
**Bundesverband Gesundheits-IT**  
**Integrating the Healthcare Enterprise (Germany)**



**EFAv2.0 Supplement**  
**IHE Cookbook Supplement**

**Enhanced Patient Privacy Consent for  
Germany (EPPC-G)  
Integration Profile**

**National Comment**

Date: April 8, 2014  
Author: Jörg Caumanns, Tarik Idris, Ben Kraufmann  
Reviewers: Joint EFA bvitg task force  
Email: [joerg.caumanns@fokus.fraunhofer.de](mailto:joerg.caumanns@fokus.fraunhofer.de)

**This is a supplement to the EFAv2.0 Technical Specification and to the IHE Cookbook**

**It is submitted for Public Comment between April 15, 2014 and May 17, 2014. Comments shall be submitted within that period to joerg.caumanns@fokus.fraunhofer.de**

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**Details about EFAv2.0 may be found at:**

[wiki.hl7.de/index.php/cdaefa:EFA\\_Spezifikation\\_v2.0](http://wiki.hl7.de/index.php/cdaefa:EFA_Spezifikation_v2.0)

**Details about IHE Cookbook may be found at:**

[wiki.hl7.de/index.php/IHE\\_DE\\_Cookbook](http://wiki.hl7.de/index.php/IHE_DE_Cookbook)

**Details about the structure of IHE Technical Frameworks and Supplements may be found at: <http://www.ihe.net/About/process.cfm> and <http://www.ihe.net/profiles/index.cfm>**

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## Introduction

The collection, use and/or processing of personal health information is only legitimate if either requested by legislation or authorized through a freely given, informed consent of the individual concerned. This rule is one of the core principles of the European privacy directive [Directive 95/46/EC] and basis of all derived European national privacy legislations.

In eHealth and telemedicine a patient consent guarantees the individual's civil rights, strengthens her informational self-determination and provides the data processor with the legal basis for collecting, using and processing personal health information.

With its Basic Patient Privacy Consent (BPPC) integration profile, IHE provides core means for sharing information about given consents within a health information exchange (HIE). The profile defines how to register a consent, how to retrieve consent information and how to link a consent to a privacy policy that the HIE stakeholders have agreed to beforehand. While this is feasible for small and focused care networks with intense communication among the participants, the decoupling of consents and privacy policies has some obstacles in larger settings, where multiple eHealth services are operated and where consents need to be adapted to specific and individual care scenarios:

- BPPC does not define a mechanism to express privacy policies. IT-systems for processing personal health information need to “know” the policy that is referenced by a given consent. This puts a burden on vendors to implement a lot of often only slightly different policies and to ensure that the technical implementation matches the sense of the agreed policy.
- Generic policies such as “opt-in” and “opt-out” often need to be bound to specific services; e.g. a patient may wish to benefit from an eMedication service but reject his participation in a Personal Health Record.
- Specific details of a consent such as the authorized care providers, the scope of the consent and the duration of validity need to be mapped onto machine readable authorization policies in order to prevent discontinuities in data processing that may arise if such information is only available on paper.
- BPPC is designed for enforcing policies on the consumer side. Nevertheless there are scenarios where data providers may only release personal health data if this data disclosure is in line with the patient's privacy policy.

The Enhanced Patient Privacy Consent for Germany (EPPC-G) integration profile integrates a machine processable privacy policy into a digital consent. This allows for a continuous flow of authorization information, where a patient's given consent can be translated into machine processable rules that are enforced whenever that patient's personal health data is processed by an electronic service that is governed by that consent.

## Volume 1 – Actors and Scenarios

The document sharing infrastructure provided by XD\* allow for the collection, use and processing of personal medical information associated with a patient. According to the principles of the European privacy directive [Directive 95/46/EC] respective transactions demand the affected actors to ensure that the collection, use and processing of personal medical information is either legitimated by a legal requirement or a freely given, informed consent of the individual. Recently IHE ITI technical framework defined two ways to implement this requirement:

- For normatively regulated health information exchange services, the administrators of an XDS Affinity Domain may create and agree to a single document publication and use policy (See ITI TF-1: Appendix L). Such a single XDS Affinity Domain Policy is enforced in a distributed way through the inherent access controls of the systems involved in the XDS Affinity Domain.
- The Basic Patient Privacy Policy (BPPC) integration profiles allows for patients to agree to pre-defined patient privacy policies that restrict access to certain personal information to certain roles defined in an XDS Affinity Domain. BPPC defines means for sharing consent information within an XDS Affinity Domain. The policy enforcement and decision points for following the privacy policy's constraints and obligations are implemented with the XDS Document Consumer, XDR Document Recipient, or XDM Portable Media Importer.

These means are sufficient as long as privacy policies are rather generic in nature and do not define restrictions on specific roles, organizations, document types, etc. that vary between different patients and healthcare IT services. Being aware of such dynamic and highly individualized scenarios, the specification of the IHE BPPC already envisions that "Future profiles may include in addition to the legal text, a structured and coded expression of the consent policy that can be used to support even more dynamic understanding of the patient's directives".

This section describes respective scenarios and defines the actors and transactions involved in sharing and enforcing such enhanced consent directives in a German HIE context.

### 1.1 Enhanced Patient Privacy Policies

EPPC-G Patient Privacy Policies (which will simply be referred to as "policies" in the remainder of this document) are machine readable which allows for an automatic decision and enforcement of such policies in advance to accessing a protected resource, such as a clinical document. It is the responsibility of the creator of a policy to provide consumers of that policy with the machine readable encoding of all patient privacy statements that make up such a policy and that apply to a defined resource access scenario. For this a EPPC-G Patient Privacy Policy shall at least contain the following information:

- Individual whose health information is protected by the policy (subject of consent): This individual shall be univocally identified through a machine readable, registered ID.
- Resources that are protected by the policy (target of consent): These resources may either be identified through their unique identifiers or through resource attribute filters (e.g. type of resource, healthcare event associated with resource). Resource attributes used within a patient privacy policy shall be univocally defined and identified and the processing system shall be able to discover all resources that match the given attribute filters.
- Individuals and organizations that are authorized to collect, use and/or process the protected resources: These organizations and individuals may either be identified through their unique identifiers or through entity attribute filters (e.g. administrative role, class of healthcare entity). Entity attributes used within a policy shall be univocally defined and identified and the processing system shall be able to decide whether a resource requestor matches the given attribute filters. If authorized organizations or individuals are provided by their IDs, the processing system shall be able to match these IDs with the ID of the resource requestor as provided with the request (e.g. through an XUA identity assertion).

An EPPC-G Patient Privacy Policy is provided and shared as part of an EPPC-G Patient Privacy Consent Document. This document wraps the machine readable policy and provides additional (machine readable information) about the context of the patient's consent:

- A statement of validity that can be used by the processing system to decide if a policy is valid: An example of such a statement is to provide a date after which the policy is to be considered as expired.
- Identification of the legal authenticator of the EPPC Patient Privacy Policy: The legal authenticator of the policy may either be the subject to the policy as an individual, a legal deputy of this individual or the health care provider to whom the consent was given by that individual.

In order to act as a legal foundation for processing an individual's personal health information, a EPPC-G Patient Privacy Policy should either be digitally signed by its authenticator or refer to a paper copy of the consent that is signed by the consent subject's wet signature. In case of an unsigned EPPC-G Patient Privacy Policy referring to a written consent, the authenticity of the policy authenticator shall be proven by appropriate means before accepting the policy (e.g. using IHE XUA and/or IHE ATNA).

The content profile specified in section 3 of this document provides the technical specifications to enable interoperable EPPC-G Patient Privacy Consent Documents that can be used across XDS Affinity Domains.

## **1.2 Actors and Transactions (non-normative)**

*The purpose of this section is to demonstrate how a patient privacy consent flow can be integrated into existing, IHE XDS-based Health Information Exchanges. The actors and transactions defined in this section are not normative for EPPC-G developers, even though*

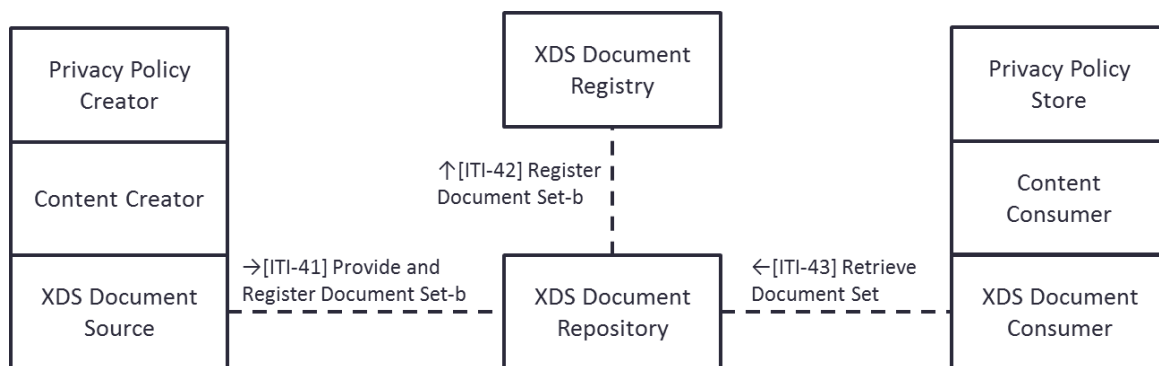


**vendors are highly encouraged to group the EPPC-G Patient Privacy Consent profile with existing XDS, SeR and XUA implementations.**

*This section will be integrated into the IHE Cookbook as a Good-Practice guideline.*

*EFAv2.0 consent supplement will refer to the respective cookbook section and provide additional actor diagrams for cross-domain registration and activation of EPPC-G Patient Privacy Consents.*

Figure-1 shows the actors directly involved in the EPPC-G Profile and the relevant transactions between them for registering a EPPC-G Patient Privacy Consent in an XDS Affinity Domain. If needed for context, other actors that may be indirectly involved due to their participation in other related profiles are shown in dotted lines. Transactions which are not specified by this profile and thus are subject to individual implementations are shown in dotted lines, too. Actors which have a suggested grouping are shown in conjoined boxes.



**Figure 1: Actors and Transaction for EPPC-G Patient Privacy Policy Registration**

### 1.2.1 Actor: Privacy Policy Consumer

A Privacy Policy Creator actor is responsible for creating and validating an EPPC-G Patient Privacy Policy, encapsulating it with an EPPC-G Patient Privacy Consent Document, and providing it as a Content Creator and XDS Document Source to an XDS Document Repository or registering it directly with a XDS Document Registry (if the Consent Creator is grouped with a integrated Source/Repository).

The sharing of the consent is implemented through an ITI-41 Provide and Register Document Set-b transaction where at least one of the provided submission sets shall contain a EPPC-G Patient Privacy Consent Document. There must not be more than one EPPC-G Patient Privacy Consent Document contained within a single submission set.

### 1.2.2 Actor: Content Consumer

The XDS Document Consumer grouped with the Content Consumer finds out about the new document through a Registry Stored Query or other means (e.g. DSUB). It retrieves the EPPC-G

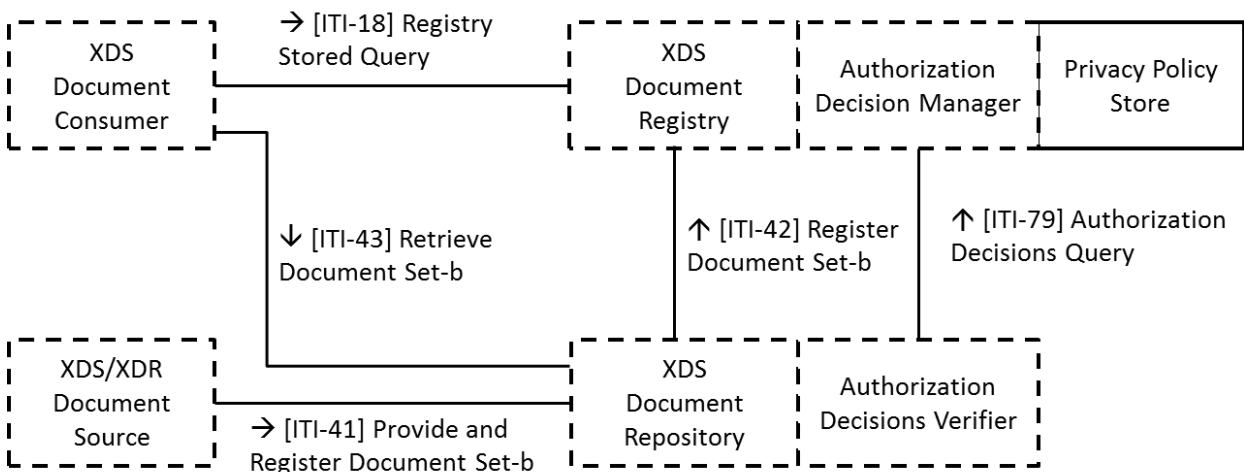
Patient Privacy Consent Document from the Repository where it is stored and makes the EPPC-G Patient Privacy Policies in the document available in the Privacy Policy Store.

### 1.2.3 Actor: Privacy Policy Store

The Policy Store acts as a Policy Administration Point that may serve further actors for deciding and enforcing privacy policies (see IHE White Paper “Access Control” for details on policy administration).

### 1.2.4 Privacy Policy Enforcement and Decision

Figure-2 shows the actors directly involved in the EPPC Profile and the relevant transactions between them for registering, querying and retrieving documents within an XDS Affinity Domain. The deployment shown assumes that IHE Secure Retrieve (SeR) integration profile is used for deciding and enforcing policies upon XDS Document Registry and XDS Document Repository access attempts.



**Figure 2: Actors and Transaction for EPPC Patient Privacy Policy Registration**

Access control enforcing systems and actors within an XDS Affinity Domain utilize the Privacy Policy Store to fetch the privacy policy that matches a given resource access attempt.

## 1.3 Dependencies among Integration Profiles and Grouping Options

*This section will be integrated into the IHE Cookbook.*

*EFAv2.0 consent supplement will refer to the respective cookbook section.*

Dependencies among IHE Integration Profiles exist when implementation of one integration profile is a prerequisite for achieving the functionality defined in another integration profile. Table-2 lists all IHE Integration Profiles the EPPC profile depends on.

**Table 1: Dependencies to other IHE Integration Profiles**

<b>EPPC-G Profile Depends on</b>	<b>Dependency Type</b>	<b>Purpose</b>
XDS, XDR, XDM	The EPPC-G Privacy Policy Creator can be grouped with an XDS or, XDR Document Source Actor or an XDM Portable Media Creator.  The EPPC-G Privacy Policy Store can be grouped with an XDS Document Consumer or an XDR Document Recipient or an XDM Portable Media Importer.	EPPC-G Patient Privacy Policies are intended for use in XDS, XDR or XDM.
ATNA	The registration of a consent shall be recorded in an ATNA audit trail.	Provides non-repudiation on a given consent
XUA	Any actor requesting access to a protected resource shall be grouped with an XUA X-Service User Actor.	Allows the system that accepts the EPPC-G Patient Privacy Consent Document to assess the legitimation of the sender to register a consent for an identified patient.
SeR	Access control scenarios on top of IHE XDS that make use of EPPC-G Patient Privacy Policies shall implement the actors and transactions as defined in the Secure Retrieve Profile.	Provides consistent access control means within an XDS Affinity Domain

### 1.3.1.1 Defining Privacy Policy Statements on XUA Attribute Statements

Privacy Policy Creator actors shall express access control rules affecting roles and other attributes of users of protected resources through user attributes that are compliant with the semantics as defined for IHE XUA X-User Assertion attribute statements. EPPC-G compliant Policy Stores shall accept IHE XUA X-User Assertion attributes for selecting and activating matching policies.

### 1.3.1.2 Defining Privacy Policy Statements on XDS Metadata

Privacy Policy Creator actors shall express access control rules affecting properties of protected XDS entries through resource attributes that are compliant with the semantics as defined for IHE XDS document entry, submission set, and folder metadata. EPPC-G compliant Policy Stores shall accept IHE XDS metadata attributes for selecting and activating matching policies.

### 1.3.2 Actor Grouping Options

Actors as defined by the EPPC-G integration profile may be grouped with other IHE integration profiles' actors for achieving further functionalities or serving specific use case requirements.

<b>EPPC Actor</b>	<b>Actor to be grouped with</b>	<b>Purpose</b>	<b>Reference</b>
Privacy Policy Creator	XDS-SD	Enables capturing of wet signatures on patients' consent documents	1.3.2.1
Privacy Policy Creator	DSG	Enables the application of a digital signature to an EPPC Patient Privacy Consent Document	1.3.2.2
Privacy Policy Store	XCDR, DSUB, XDR, etc.	Enables the cross-domain synchronization of consents given by the same patient	1.3.2.3

#### 1.3.2.1 Scanned Consent Option

Care providers may print out paper views of an EPPC-G Patient Privacy Consent Document for signing by the patient. Scans of this document may again be stored together with the original EPPC-G Patient Privacy Document within the Affinity Domain's central document managing systems. The EPPC-G Scanned Consent Option defines how a digital consent and a scanned paper consent can be provided to an XDS Document Repository within a single XDS submission set.

#### 1.3.2.2 Signed Patient Privacy Consent Document Option

A EPPC-G Patient Privacy Consent Document should be digitally signed by its legal authenticator in order to allow for an easy and sustainable validation of the consent's authenticity. The EPPC Signed Patient Privacy Consent Document Option defines how a IHE DSG digital signature can be applied to an EPPC Patient Privacy Consent Document.

#### 1.3.2.3 Cross-Domain Consent Option

EPPC-G Patient Privacy Consent Documents are designed to be interoperable across XDS Affinity Domains. This reflects the requirements on a consistent management of the patient's will even in continuous care scenarios where the patient's personal health information is distributed across multiple XDS Affinity Domains. The EPPC-G Cross-Domain Consent Option defines means to share EPPC Patient Privacy Consent Documents across multiple XDS Affinity Domains by means of the IHE XCDR Profile.

## 1.4 Use Cases

*A shortened version of this section will be integrated into the IHE Cookbook. The full use case descriptions will be integrated with the conceptual specifications of the respective health record flavours. In particular will EFAv2.0 consent supplement adopt the EFAv2.0 use case given in section 1.4.1.*

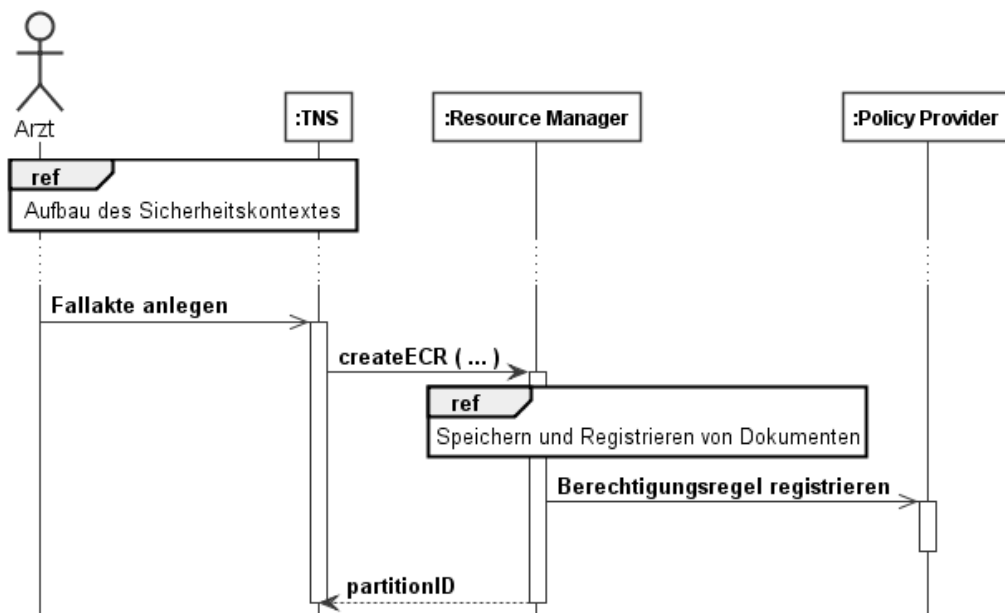
### 1.4.1 EFAv2.0 Case Record Registration and Consent Enforcement

The Electronic Case Record (eCR) is an initiative launched by the stationary sector - i.e. Germany's hospitals and clinics - in 2006. Electronic case records provide a structured and integrated viewpoint of medical data that can be associated with an individual patient. A case begins with an initial diagnosis and integrates as many instances of billing or treatment as required. A physician oversees the eCR, with the various attending physicians having responsibility for the contents and their completeness.

The decentralized handling and maintenance of case records is based on the metaphor of a supply network as a community of interest composed of autonomous actors working on a specific task. Since it is generally preferred that the place where medical data and administrative information (e.g. user accounts) remains constant, the case record can be implemented in existing networks very simply, facilitating the initiation of co-operation at the regional level. In 2012 the EFA-Verein (eCR Association holding responsibility for the evolution and dissemination of eCR) and the bvitg (Association of German healthcare-IT vendors) agreed on the joint development of EFAv2.0 on top of existing IHE profiles. The results of this work can be found at [http://wiki.hl7.de/index.php?title=cdaefa:EFA\\_Spezifikation\\_v2.0](http://wiki.hl7.de/index.php?title=cdaefa:EFA_Spezifikation_v2.0).

#### 1.4.1.1 eCR Initialization

EFAv2.0 requires a consent to be given by the patient prior to the instantiation of a new CaseRecord instance. As a case record is always bound to a specific purpose (e.g. a disease) and is accessible only to the organizations taking part in treating the patient for that purpose, the consent given by the patient must identify both the purpose and the care organizations authorized to access the case record. Together with some administrative data on the validity of the consent this information is capsuled in a consentInfo data structure ([http://wiki.hl7.de/index.php?title=cdaefa:EFA\\_Business\\_Informationsmoell#consentInfo](http://wiki.hl7.de/index.php?title=cdaefa:EFA_Business_Informationsmoell#consentInfo)) which is submitted to the EFAv2.0 Ressource Manager actor as part of an eCR initialization request. The EFAv2.0 Ressource Manager extracts this information from the consentInfo structure and registers it as an XACML-coded policy with the EFA2.0 Policy Registry actor.



**Figure 3: EFAv2.0 Initialization and Consent Registration Communication Pattern**

The respective communication pattern (see above) is recently implemented by manually filling the consentInfo structure from the patient's consent given on paper. Using the EPPC profile the whole flow can be simplified and transmission errors can be minimized due to the seamless digital processing of consent information:

1. The patient and his treating physician agree to set up a case record as a means to support communication and cooperation among the care providers who are involved in the patient's treatment of a specific illness.
2. The physician opens an EFAv2.0 consent form provided by his IT system. He fills in all required information (purpose, authorized care organizations, etc.). The IT system renders the form content as an EPPC-G Patient Privacy Consent Document and prints out a paper copy which is signed by the patient.
3. The physician clicks a check box signaling that he received a signed paper copy of the consent. His IT system digitally signs the original EPPC-G Patient Privacy Consent Document and integrates it into an EFAv2.0 initialization request message (createECR, which is implemented as an IHE XDS ProvideAndRegisterDocumentSet-b transaction) as the required consentInfo element.
4. The EFAv2.0 Resource Manager validates the signature and extracts the EPPC-G Patient Privacy Policy element from the EPPC Patient Privacy Consent Document. The policy is registered with the EFAv2.0 Policy Provider actor.

### 1.4.1.2 EFAv2.0 Policy Enforcement

EFAv2.0 supports both policy push and policy pull pattern (see IHE White Paper “Access Control” for details), with “policy pull” being the default method.

EFAv2.0 policies are enforced with every request message for accessing a protected resource. In such a case the processing EFAv2.0 service contacts the EFAv2.0 Policy Provider to obtain the policy that applies to the given request. Policy decision is performed on the requestor’s identity attributes provided as SAMLv2 Attribute Statements, resource attributes obtained from the EFAv2.0 Document Registry, and attributes taken from the request message. If the request is accepted, the requested data is released to the requestor.

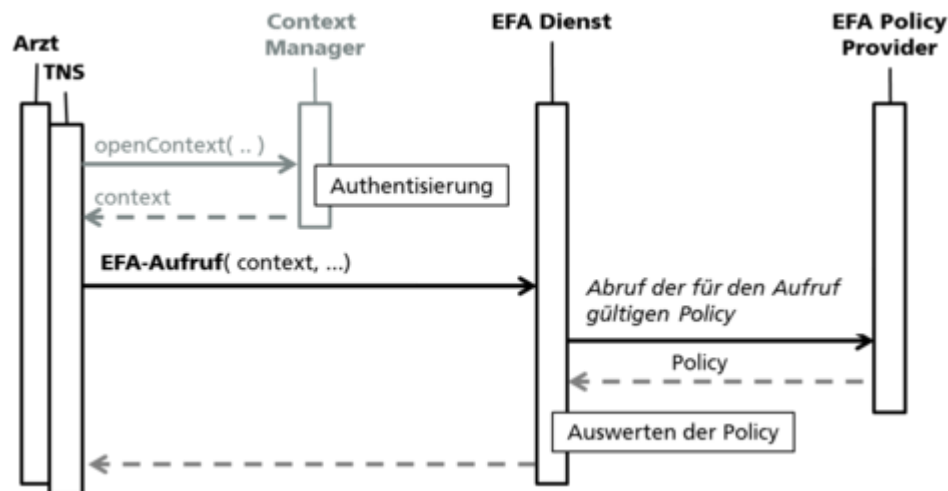
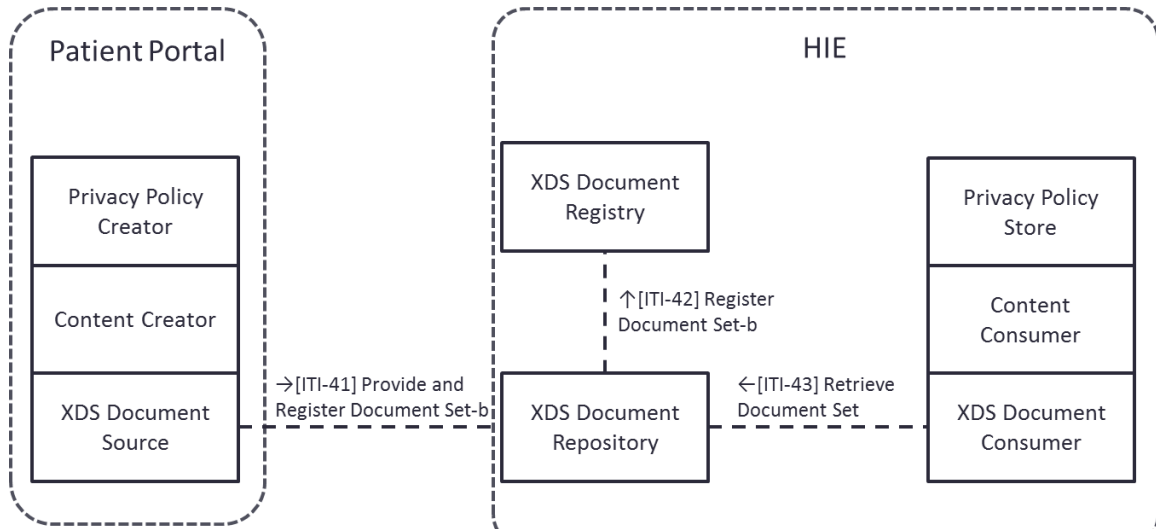


Figure 4: EFAv2.0 Policy Enforcement (Policy Pull)

Using EPPC-G for this flow requires a grouping of the defined EFA Policy Provider with the EPPC Policy Store actor. In this setting the EFA Policy Provider utilizes the EPPC Policy Store for managing XACML encoded policies which were provided as EPPC Patient Privacy Policies.

### 1.4.2 PEPA Privacy Policy Registration

In some HIEs the patient has an active part in the management of her record through a patient portal. One example of this is the PEPA concept developed at the University Hospital Heidelberg (<http://www.infopat.eu/>). In these scenarios, the patient needs fine-grained control over who can access which piece of information at what time and under which circumstances. The patient portal therefore includes a tool that guides the patient to express her privacy preferences in a format that can be expressed as a customized, patient-specific privacy policy. This privacy policy is then wrapped in a consent document and stored by the patient portal as part of the patient's longitudinal record.



The Patient Portal generates a EPPC-G conformant privacy policy that fully describes the patient's privacy preferences. Any changes result in a new document that replaces the older version. This relies on the Document Replacement Option of IHE XDS, which the XDS Document Source (that is part of the patient portal) must support.

The PEPA concept does not support downloading documents, but the XDS Document Consumers is nevertheless needed in this special case. This is acceptable because the documents do not leave the HIE, they are just being processed by a dedicated component of the HIE, the EPPC-G Privacy Policy Store. The policy store can be informed about new consents via DSUB (i.e. grouped with a DSUB Document Metadata Notification Recipient).



## Volume 2 – Content Profile

### 1.1 Enhanced Patient Privacy Consent Document

This section specifies the Enhanced Patient Privacy Consent Document. It specializes the HL7 Implementation Guide for CDA® Release 2: Privacy Consent Directives, Release 1. That is:

- All rules and constraints that are given in the Privacy Consent Directives specification also apply to the Enhanced Patient Privacy Consent Document.
- All rules with regard to cardinality and configuration given below comply to but constrain the Privacy Consent Directives specification.

The structure of an Enhanced Patient Privacy Consent Document is depicted in the following diagram.

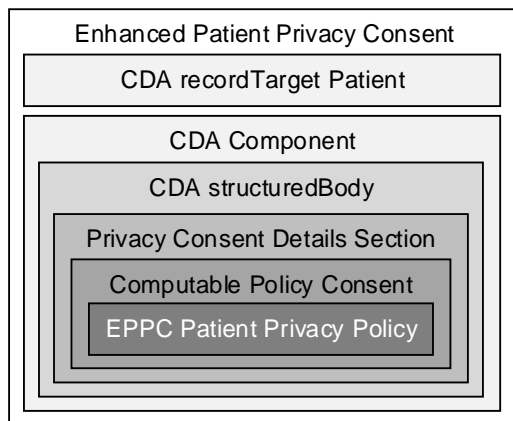


Figure 5: Structure of an Enhanced Patient Privacy Consent Document

#### 1.1.1 Enhanced Patient Privacy Consent

*CDA document level*

This template specifies the Enhanced Patient Privacy Consent document. Besides the constraints given in the table below and in the subsequent sections the constraints specified in HL7 Implementation Guide for CDA Release 2: Privacy Consent Directives, Release 1 do apply.

This template is a specialization of template 2.16.840.1.113883.3.445.1.1.

Item	DT	Card	Conf	Description
hl7:ClinicalDocument		1..1	M	
hl7:templateId	II	1..1	M	Indicates an Enhanced Patient

				Privacy Consent.
⋮ @root		0..1	F	Must be »1.2.276.0.76.3.1.81.81.12.1.10.11«
⋮ hl7:recordTarget		1..1	M	See template: CDA recordTarget Patient
⋮ hl7:component		1..1	M	See template: CDA Component

### 1.1.2 CDA recordTarget Patient

*CDA header level*

This template specifies the constraints on the recordTarget header of an EPPC document.

Item	DT	Card	Conf	Description
⋮ hl7:recordTarget		1..1	M	
⋮ hl7:patientRole		1..1	M	An EPPC document always relates to a single patient.
⋮ hl7:id	II	1..1	M	The patientId given here must be equal to the patientId provided with the XACML policy embedded in the EPPC document.

### 1.1.3 CDA Component

*CDA header level*

This template specifies the constraints on the component header of an EPPC document.

Item	DT	Card	Conf	Description
⋮ hl7:component		1..1	M	
⋮ @typeCode		0..1	F	Must be »COMP«
⋮ @contextConductionInd		0..1	F	Must be »true«
⋮ hl7:structuredBody		0..*	O	See template: CDA structuredBody

### 1.1.4 CDA structuredBody

*CDA section level*

This template specifies the constraints on the structuredBody of an EPPC document

Item	DT	Card	Conf	Description
hl7:structuredBody		1..*	R	
hl7:component		1..*	M	
@typeCode		0..1	F	Must be »COMP«
@contextConductionInd		0..1	F	Must be »true«
hl7:section		1..*	M	See template: Privacy Consent Details Section

### 1.1.5 Privacy Consent Details Section

*CDA section level*

This template specifies the constraints on the Privacy Consent Details Section of an EPPC document.

This template is a specialization of template 2.16.840.1.113883.3.445.17.

Item	DT	Card	Conf	Description
hl7:section		1..1	M	
hl7:entry		1..*	M	
@typeCode		0..1	F	Must be »COMP«
hl7:observation		1..1	M	See template: Computable Policy Consent

### 1.1.6 Computable Policy Consent

*CDA entry level*

This template specifies the constraints on the Computable Policy Consent entry of an EPPC document. This entry contains an EPPC Patient Privacy Policy.

This template is a specialization of template 2.16.840.1.113883.3.445.16.

Item	DT	Card	Conf	Description
hl7:observation		1..1	M	
@ classCode		0..1	F	Must be »OBS«
@ moodCode		0..1	F	Must be »DEF«
hl7:value	ED	1..1	M	Embedded as XML-CDATA, this element must contain an EPPC-G Patient Privacy Policy that conforms to Appendix A – Bindings if the protected resource is an XDS entry.
@ mediaType		0..1	F	Must be »text/xml«

## 1.2 Enhanced Patient Privacy Consent document example

```

<?xml version="1.0" encoding="UTF-8"?>
<ClinicalDocument xmlns="urn:hl7-org:v3"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" classCode="DOCCLIN"
  moodCode="EVN">
  <realmCode code="DE" />
  <typeId root="2.16.840.1.113883.1.3" extension="09230" />
  <templateId root="2.16.840.1.113883.3.445.1.1" />
  <templateId root="1.2.276.0.76.3.1.81" />
  <id root="1.3.6.4.1.4.1.2835.888888" extension="221" />
  <code code="57016-8" codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Privacy Policy Acknowledgement Document" />
  <title representation="TXT" mediaType="text/plain" language="en"
    >Informed Patient Consent</title>
  <effectiveTime value="201410262244+0500" />
  <confidentialityCode code="N" />

  <recordTarget>
    <patientRole>
      <id root="1.3.6.1.4.1.21367.2005.3.7" extension="6578946" />
      <addr>
        <streetAddressLine>103 Roosevelt Road</streetAddressLine>
        <city>Garden City</city>
        <postalCode>KS 67846</postalCode>
      </addr>
    </patientRole>
  </recordTarget>

```

```
<patient>
  <name>
    <prefix>Ms</prefix>
    <given>Carrie J.</given>
    <family>Harper</family>
  </name>
  <administrativeGenderCode code="F"
    codeSystem="2.16.840.1.113883.5.1" />
  <birthTime value="19760421" />
</patient>
</patientRole>
</recordTarget>

<author>
  <templateId root="2.16.840.1.113883.3.445.2" />
  <functionCode code="POACON" codeSystem="2.16.840.1.113883.1.11.19930"
    displayName="healthcare power of attorney consent author"
    codeSystemName="ConsenterParticipationFunctionDecisionMaker" />
  <time value="201303122244" />
  <assignedAuthor>
    <id root="1.3.5.35.1.4436.7" extension="11111111" />
    <assignedPerson classCode="PSN">
      <name>
        <prefix>Dr. med.</prefix>
        <given>Thorsten</given>
        <family>Springer</family>
      </name>
    </assignedPerson>
    <representedOrganization>
      <id root="1.3.6.4.1.4.1.2835.2" extension="980983" />
      <name>Klinikum Himmelpforten</name>
      <addr>
        <streetAddressLine>Straße am Ufer 2a</streetAddressLine>
        <city>Emden</city>
        <postalCode>21709</postalCode>
      </addr>
    </representedOrganization>
  </assignedAuthor>
</author>

<custodian>
  <assignedCustodian>
    <representedCustodianOrganization>
```

```
<id root="1.3.6.4.1.4.1.2835.2" extension="980983" />
<name>Klinikum Himmelpforten</name>
<addr>
  <streetAddressLine>Straße am Ufer 2a</streetAddressLine>
  <city>Emden</city>
  <postalCode>21709</postalCode>
</addr>
</representedCustodianOrganization>
</assignedCustodian>
</custodian>

<component typeCode="COMP" contextConductionInd="true">
  <structuredBody>
    <component typeCode="COMP" contextConductionInd="true">
      <section classCode="DOCSECT" moodCode="EVN">
        <templateId root="2.16.840.1.113883.3.445.17" />
        <entry typeCode="COMP">
          <templateId root="2.16.840.1.113883.3.445.4" />
          <observation classCode="OBS" moodCode="DEF">
            <code code="57016-8"
              codeSystem="2.16.840.1.113883.6.1"
              codeSystemName="LOINC" />
            <value xsi:type="ED" mediaType="text/xml"
              representation="TXT">
<![CDATA[
<PolicySet xmlns="urn:oasis:names:tc:xacml:2.0:policy:schema:os">
...
</PolicySet>
]]>
          </value>
        </observation>
      </entry>
    </section>
  </component>
</structuredBody>
</component>
</ClinicalDocument>
```

## <Appendix letter> Appendix\_Name

<Detailed cross transaction relationships or mapping details are described in an appendix in Volume 2>



## Volume 3 – Metadata

### 1.1 XDS Metadata

EPPC leverages the XDS DocumentEntry Metadata requirements in the IHE PCC TF-2: 4.1.1 unless otherwise specified below.

#### 1.1.1 XDS Document Entry Metadata

##### 1.1.1.1 XSDDocumentEntry.classCode

*A definition of top-level document classes for the German healthcare system is subject to a joint task force of several German health record initiatives. The results of this activity are expected to populate the classCode value set and will be adopted by the EPPC Profile specification.*

##### 1.1.1.2 XSDDocumentEntry.typeCode

The LOINC code for EPPC Patient Privacy Consent Documents is “59284-0” “Consent Document Patient<sup>1</sup>” and the codeSystem is 2.16.840.1.113883.6.1 (LOINC 2.44).

##### 1.1.1.3 XSDDocumentEntry.formatCode

The XSDDocumentEntry format code for this content shall be urn:ihe-d:eppc:2015.

*The formatCode codeSystem is to be defined by IHE Germany under the OID tree of the German Healthcare System.*

##### 1.1.1.4 XSDDocumentEntry.uniqueId

This value shall be the ClinicalDocument/id in the HL7 CDA R2 header. The root attribute is required, and the extension attribute is optional. The total length is limited to 256 characters. Additionally see IHE PCC TF-2: 4.1.1, for further content specification.

#### 1.1.2 XDS SubmissionSet Metadata

No additional constraints. For more information, see IHE PCC TF-2: 4.1.2.

#### 1.1.3 XDS Folder Metadata

No additional requirements. For more information, see IHE PCC TF-2: 4.1.3.

---

<sup>1</sup> See <http://semantik.fokus.fraunhofer.de/WebCts2LE/main3/EntityDescriptionBase-1.jsp?entityCode=59284-0&csName=Loinc2.44> for details on the semantics of this LOINC code (



## 1.2 Scanned Consent Option

Patient signed paper views of an EPPC Patient Privacy Consent Document may be provided to an XDS Affinity Domain as part of an EPPC Patient Privacy Consent Document. This option leverages the XDS DocumentEntry Metadata requirements for Scanned Documents in the IHE ITI TF-3: 5.2 unless otherwise specified below.

### 1.2.1.1 XSDDocumentEntry.classCode

The LOINC class code for a scanned paper view on an EPPC Patient Privacy Consent Document shall be the same as for the original EPPC Patient Privacy Consent Document (see 1.1.1.1).

### 1.2.1.2 XSDDocumentEntry.typeCode

The LOINC type code for a scanned paper view on an EPPC Patient Privacy Consent Document shall be the same as for the original EPPC Patient Privacy Consent Document (see 1.1.1.2).

### 1.2.1.3 XSDDocumentEntry.formatCode

The XSDDocumentEntry format code for this content shall be urn:ihe-d:eppc-sd:2015.

*The formatCode codeSystem is to be defined by IHE Germany under the OID tree of the German Healthcare System.*

### 1.2.1.4 Integration of base64-coded Scanned Consent

Scanned consents shall be integrated into an EPPC Patient Privacy Consent Document as per HL7 Implementation Guide for CDA® Release 2: Privacy Consent Directives, Release 1.

Example:

```
<observationmedia xmlns="urn:hl7-org:v3">  
  <id root="MDHT" extension="496522716"/>  
  <value>base64 coded scanned document</value>  
</observationmedia>
```

## 1.3 Signed Patient Privacy Consent Document Option

A EPPC Patient Privacy Consent Document should be digitally signed by its legal authenticator in order to allow for an easy and sustainable validation of the consent's authenticity. For implementing the respective Signed Patient Privacy Consent Document Option an IHE DSG digital signature shall be applied to an EPPC Patient Privacy Consent Document. IHE DSG Detached Signature Option shall be used where the Privacy Policy Store actor is responsible for validating the signature. IHE DSG SubmissionSet Signature options must not be used.

## Appendix A – Bindings

This appendix to the EPPC-G integration profile defines the normative mapping of IHE XUA and IHE XDS related attributes onto XACML statements. These mappings shall be used whenever an XACML rule statement refers to an IHE XUA or XDS attribute value.

*This appendix will be integrated into the IHE Cookbook.*

*EFAv2.0 consent supplement will refer to the respective cookbook section and restrict the attributes that are to be used for ECR privacy policies.*

*EFAv2.0 Policy Assertion specification*

*([http://wiki.hl7.de/index.php/cdaefa:EFA\\_Policy\\_Assertion\\_SAML2\\_Binding](http://wiki.hl7.de/index.php/cdaefa:EFA_Policy_Assertion_SAML2_Binding)) will be update to only refer to the respective cookbook sections for the normative EFAv2.0 XACML mappings.*

### 1.4 Custom Data Types (and related Comparison Functions) used for the bindings

This section specifies the data types (and functions based on these data types) that are not included in the XACML 2.0 Core specification, but are necessary for a consistent binding between IHE XUA / IHE XDS and XACML.

#### 1.4.1 Custom Data Types

##### 1.4.1.1 urn:hl7-org:v3#CV

The data type is based on the HL7v3 "Coded Value" data type (see HL7v3 Abstract Data Type Specification - ANSI/HL7 V3 DT, R1-2004 11/29/2004; section 2.9). A CV must have the XML element "codedValue" with the XML attributes "code" and "codeSystem". "code" may be any string. "codeSystem" must be an OID, but this does not have to be validated or verified by the implementor. A CV may also have the XML attributes "codeSystemName", "codeSystemVersion", "displayName" and the XML child element "originalText", but these may be safely ignored by the implementor.

Example:

```
<CodedValue code="1" codeSystem="1.0.14265.1" />
```

##### 1.4.1.2 urn:hl7-org:v3#II

The data type is based on the HL7v3 "Instance Identifier" data type (see HL7v3 Abstract Data Type Specification - ANSI/HL7 V3 DT, R1-2004 11/29/2004; section 2.17). A II must have the XML element "InstanceIdentifier" with the XML attribute "root" and may have the XML attribute "extension"."extension" may be any string. "root" must be an OID, but this does not have to be validated or verified by the implementor. A II may also have the XML attribute

"assigningAuthorityName" and "displayable", but these may be safely ignored by the implementor.

Example:

```
<InstanceIdentifier extension="11231"  
root="2.16.840.1.113883.3.37.4.1.1.72364" />
```

## 1.4.2 Custom Comparison Functions

### 1.4.2.1 urn:hl7-org:v3:function:CV-equal

This function SHALL take two arguments of data-type "urn:hl7-org:v3#CV" and SHALL return an "http://www.w3.org/2001/XMLSchema#boolean". The function SHALL return "True" if and only if the "code" attribute of both of its arguments are equal according to the function "urn:oasis:names:tc:xacml:1.0:function:string-equal" AND the "codeSystem" attribute of both of its arguments are equal according to the function "urn:oasis:names:tc:xacml:1.0:function:string-equal". Otherwise, it SHALL return "False".

### 1.4.2.2 urn:hl7-org:v3:function:II-to-string

This function SHALL take one argument of data-type "urn:hl7-org:v3#II" and SHALL return an "http://www.w3.org/2001/XMLSchema#string". The function SHALL return the "root" attribute of its argument if and only if the "extension" attribute of its arguments is empty. Otherwise, it SHALL return the concatenation of the "root" attribute of its argument, the character "@", and the "extension" attribute of its argument (in this order) according to the function "urn:oasis:names:tc:xacml:2.0:function:string-concatenate".

### 1.4.2.3 urn:hl7-org:v3:function:II-equal

This function SHALL take two arguments of data-type "urn:hl7-org:v3#II" and SHALL return an "http://www.w3.org/2001/XMLSchema#boolean". The function SHALL return "True" a) if and only if the extension attribute is empty and the "root" attribute of both of its arguments are equal according to the function "urn:oasis:names:tc:xacml:1.0:function:string-equal" OR b) if and only if the "extension" attribute of both of its arguments are equal according to the function "urn:oasis:names:tc:xacml:1.0:function:string-equal" AND the "root" attribute of both of its arguments are equal according to the function "urn:oasis:names:tc:xacml:1.0:function:string-equal". Otherwise, it SHALL return "False".

### 1.4.2.4 urn:hl7-org:v3:function:II-match

This function SHALL take one argument of data-type "urn:hl7-org:v3#II" and one of data-type "<http://www.w3.org/2001/XMLSchema#string>". It SHALL return an "<http://www.w3.org/2001/XMLSchema#boolean>". The function SHALL convert the "urn:hl7-org:v3#II" to a "<http://www.w3.org/2001/XMLSchema#string>" according to the rules of

"urn:hl7-org:v3:function:II-to-string". The function SHALL then return "True" if and only if the converted "urn:hl7-org:v3#II" argument is equal to the ["http://www.w3.org/2001/XMLSchema#string"](http://www.w3.org/2001/XMLSchema#string) argument according to the rules of "urn:oasis:names:tc:xacml:1.0:function:string-equal". Otherwise, it SHALL return "False".

#### 1.4.2.5 urn:ihe-d:cookbook:function:2015:SeR-URN-to-CV

This function SHALL take one argument of data-type ["http://www.w3.org/2001/XMLSchema#anyURI"](http://www.w3.org/2001/XMLSchema#anyURI) that adheres to the IHE Secure Retrieval Profile definition of a URN encoded coded value and SHALL return a "urn:hl7-org:v3#CV". The function SHALL separate the first argument into tokens separated by the colon (":") character. Each token must be URN-decoded to replace the percentage encoded characters by the actual characters. Each token MUST NOT include the colon character. The function SHALL then create a "urn:hl7-org:v3#CV" using the 6th token as the "codeSystem" element and the 8th token as the "code" element. The function MAY additionally use the 7th token as the "codeSystemName" element and the 9th token as the "displayName" element. The function SHALL then return the created "urn:hl7-org:v3#CV".

#### 1.4.2.6 urn:ihe-d:cookbook:function:2015:CV-equal-to-SeR-URN

This function SHALL take one argument of data-type "urn:hl7-org:v3#CV" and one of data-type ["http://www.w3.org/2001/XMLSchema#anyURI"](http://www.w3.org/2001/XMLSchema#anyURI) that adheres to the IHE Secure Retrieval Profile definition of a URN encoded coded value. It SHALL return an ["http://www.w3.org/2001/XMLSchema#boolean"](http://www.w3.org/2001/XMLSchema#boolean). The function SHALL convert the ["http://www.w3.org/2001/XMLSchema#anyURI"](http://www.w3.org/2001/XMLSchema#anyURI) to a "urn:hl7-org:v3#CV" using the function "urn:ihe-d:cookbook:function:2015:anyURI-to-CV". The function SHALL then evaluate the first argument to the converted second argument according to the function "urn:hl7-org:v3:function:CV-equal". If the comparison yields a "True", the function SHALL return "True". Otherwise it shall return "False".

## 1.5 IHE XUA User Attributes Binding

### 1.5.1 User ID

<b>IHE XUA Definition</b>	3.40.4.1.2 as "Subject": "logical identifier of the principal performing the original service request"
<b>SAML Attribute Name</b>	n/a, not an attribute in SAML
<b>SAML Example</b>	<pre>&lt;saml:Subject&gt;   &lt;saml:NameID&gt;user1&lt;/saml:NameID&gt;   &lt;saml:SubjectConfirmation     Method="urn:oasis:names:tc:SAML:2.0:cm:bearer"/&gt;</pre>

	</saml:Subject>
<b>XACML Target Section</b>	subject
<b>XACML Attribute ID</b>	urn:oasis:names:tc:xacml:1.0:subject:subject-id
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#string
<b>XACML Attribute Value Content</b>	No restrictions
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:oasis:names:tc:xacml:1.0:subject:subject-id"   DataType="http://www.w3.org/2001/XMLSchema#string"&gt;   &lt;AttributeValue&gt;user1&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	The user's id does not need an SAML attribute name, but it needs an attribute ID in XACML.

### 1.5.2 User's Full Name

<b>IHE XUA Definition</b>	3.40.4.1.2 as "Subject ID": "plain text description of the user's name (not user ID)"
<b>SAML Attribute Name</b>	urn:oasis:names:tc:xspa:1.0:subject:subject-id
<b>SAML Example</b>	<pre>&lt;saml:Attribute   Name="urn:oasis:names:tc:xspa:1.0:subject:subject-id"&gt;   &lt;saml:AttributeValue&gt;Walter H.Brattain   &lt;/saml:AttributeValue&gt; &lt;/saml:Attribute&gt;</pre>
<b>XACML Target Section</b>	subject
<b>XACML Attribute ID</b>	http://www.ietf.org/rfc/rfc2256.txt#cn
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#string
<b>XACML Attribute</b>	Plain text, format SHOULD be "<firstName> <secondName> <middleName>

<b>Value Content</b>	<lastName>" unless realm-specific standards suggest otherwise
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="http://www.ietf.org/rfc/rfc2256.txt#cn"&gt;   DataType="http://www.w3.org/2001/XMLSchema#string"&gt;   &lt;AttributeValue&gt;Walter H. Brattain&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	The user's id does not need an SAML attribute name, but it needs an attribute ID in XACML. Therefore the plain text name is moved to the LDAP-based attribute ID, to avoid using two different URNs ending in subject-id. <i>"Where a suitable attribute is already defined in LDAP, the XACML identifier SHALL be formed by adding the attribute name to the URI of the LDAP specification."</i> (XACML 2.0 Core, Appendix B.5, line 5027f.)

### 1.5.3 User Organization

<b>IHE XUA Definition</b>	3.40.4.1.2 as "Subject Organization": "plain text description of the organization"
<b>SAML Attribute Name</b>	urn:oasis:names:tc:xspa:1.0:subject:organization
<b>SAML Example</b>	<pre>&lt;saml:Attribute   Name="urn:oasis:names:tc:xspa:1.0:subject:organization"&gt;   &lt;saml:AttributeValue&gt;Family Medical Clinic   &lt;/saml:AttributeValue&gt; &lt;/saml:Attribute&gt;</pre>
<b>XACML Target Section</b>	subject
<b>XACML Attribute ID</b>	urn:oasis:names:tc:xspa:1.0:subject:organization
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#string
<b>XACML Attribute Value Content</b>	No restrictions
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:oasis:names:tc:xspa:1.0:subject:organization"   DataType="http://www.w3.org/2001/XMLSchema#string"&gt;   &lt;AttributeValue&gt;Family Medical Clinic&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>

<b>Comment</b>	
----------------	--

#### 1.5.4 User Organization ID

<b>IHE XUA Definition</b>	3.40.4.1.2 as "Subject Organization ID": "a unique identifier for the organization that the user is representing in performing this transaction"
<b>SAML Attribute Name</b>	urn:oasis:names:tc:xspa:1.0:subject:organization-id
<b>SAML Example</b>	<pre>&lt;saml:Attribute   Name="urn:oasis:names:tc:xspa:1.0:subject:organization-id"&gt;   &lt;saml:AttributeValue&gt;<a href="http://familymedicalclinic.org">http://familymedicalclinic.org</a>   &lt;/saml:AttributeValue&gt; &lt;/saml:Attribute&gt;</pre>
<b>XACML Target Section</b>	subject
<b>XACML Attribute ID</b>	urn:oasis:names:tc:xspa:1.0:subject:organization-id
<b>XACML Data Type</b>	<a href="http://www.w3.org/2001/XMLSchema#anyURI">http://www.w3.org/2001/XMLSchema#anyURI</a>
<b>XACML Attribute Value Content</b>	<p>The organization ID MUST be one of:</p> <p>a) Object Identifier (OID), using the urn format (that is, "urn:oid:" appended with the OID);</p> <p>b) a URL assigned to that organization.</p>
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId=   "urn:oasis:names:tc:xspa:1.0:subject:organization-id"   DataType="http://www.w3.org/2001/XMLSchema#anyURI"&gt;   &lt;AttributeValue&gt;<a href="http://familymedicalclinic.org">http://familymedicalclinic.org</a>&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

#### 1.5.5 User Home Community ID

<b>IHE XUA Definition</b>	3.40.4.1.2 as "Home Community ID Attribute": "the Home Community ID (an Object Identifier) assigned to the Community that is initiating the request"
---------------------------	--

<b>SAML Attribute Name</b>	urn:ihe:iti:xca:2010:homeCommunityId
<b>SAML Example</b>	<saml:Attribute Name="urn:ihe:iti:xca:2010:homeCommunityId"> <saml:AttributeValue>urn:oid:2.16.840.1.113883.3.190</saml:AttributeValue> </saml:Attribute>
<b>XACML Target Section</b>	subject
<b>XACML Attribute ID</b>	urn:ihe:iti:xca:2010:homeCommunityId
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#anyURI
<b>XACML Attribute Value Content</b>	The identifier MUST be an Object Identifier (OID), using the urn format ("urn:oid:" appended with the OID)
<b>XACML Example</b>	<Attribute AttributeId="urn:ihe:iti:xca:2010:homeCommunityId" DataType="http://www.w3.org/2001/XMLSchema#anyURI"> <AttributeValue>urn:oid:2.16.840.1.113883.3.190</AttributeValue> > </Attribute>
<b>Comment</b>	

### 1.5.6 National Provider Identifier (NPI)

<b>IHE XUA Definition</b>	3.40.4.1.2 as "National Provider Identifier (NPI) Attribute": "A National Provider Identifier (NPI) is a unique identifier issued to health care providers by their national authority"
<b>SAML Attribute Name</b>	urn:oasis:names:tc:xspa:2.0:subject:npi
<b>SAML Example</b>	<saml:Attribute Name="urn:oasis:names:tc:xspa:2.0:subject:npi"> <saml:AttributeValue>1234567890</saml:AttributeValue> </saml:Attribute>
<b>XACML Target Section</b>	subject



<b>XACML Attribute ID</b>	urn:oasis:names:tc:xspa:2.0:subject:npi
<b>XACML Data Type</b>	urn:hl7-org:v3#II
<b>XACML Attribute Value Content</b>	When the simplified form without the assigning authority is used, the transforming actor must add the required instance identifier root.
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:oasis:names:tc:xspa:2.0:subject:npi"   DataType="urn:hl7-org:v3#II"&gt;   &lt;AttributeValue&gt;     &lt;hl7:InstanceIdentifier extension="1234567890"       root="2.16.840.1.113883.4.6" /&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.5.7 User Role

<b>IHE XUA Definition</b>	3.40.4.1.2.1 as "Subject-Role": "the relevant user subject roles from a locally defined Code-Set"
<b>SAML Attribute Name</b>	urn:oasis:names:tc:xacml:2.0:subject:role
<b>SAML Example</b>	<pre>&lt;saml:Attribute Name="urn:oasis:names:tc:xacml:2.0:subject:role"&gt;   &lt;saml:AttributeValue&gt;     &lt;Role xmlns="urn:hl7-org:v3" xsi:type="CE" code="46255001"       codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED_CT"       displayName="Pharmacist"/&gt;   &lt;/saml:AttributeValue&gt; &lt;/saml:Attribute&gt;</pre>
<b>XACML Target Section</b>	Subject
<b>XACML Attribute ID</b>	urn:oasis:names:tc:xacml:2.0:subject:role
<b>XACML Data Type</b>	urn:hl7-org:v3#CV

<b>XACML Attribute Value Content</b>	
<b>XACML Example</b>	<pre>&lt;Attribute AttributeId="urn:oasis:names:tc:xacml:2.0:subject:role"   DataType="urn:hl7-org:v3#CV"&gt;   &lt;AttributeValue&gt;     &lt;hl7:CodedValue code="46255001" codeSystem="2.16.840.1.113883.6.96" /&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	Using changing element names for coded values with the typification coming from the xsi:type attributes has its disadvantage when writing complex XACML policies (esp. regarding schema support). Therefore the resulting XACML constructs use a fixed element name with the semantic context provided by the attribute ID.

### 1.5.8 Purpose Of Use

<b>IHE XUA Definition</b>	3.40.4.1.2.3 as "PurposeOfUse": "the coded representation of the Purpose for Use that is in effect for the request"
<b>SAML Attribute Name</b>	urn:oasis:names:tc:xspa:1.0:subject:purposeofuse
<b>SAML Example</b>	<pre>&lt;saml:Attribute name="urn:oasis:names:tc:xspa:1.0:subject:purposeofuse"&gt;   &lt;saml:AttributeValue&gt;     &lt;PurposeOfUse xmlns="urn:hl7-org:v3" xsi:type="CE" code="12"               codeSystem="1.0.14265.1"               codeSystemName="ISO 14265 Classification of Purposes for processing personal health information"               displayName="Law Enforcement"/&gt;   &lt;/saml:AttributeValue&gt; &lt;/saml:Attribute&gt;</pre>
<b>XACML Target Section</b>	subject
<b>XACML Attribute ID</b>	urn:oasis:names:tc:xspa:1.0:subject:purposeofuse
<b>XACML Data Type</b>	urn:hl7-org:v3#CV

<b>XACML Attribute Value Content</b>	
<b>XACML Example</b>	<pre>&lt;Attribute AttributeId="urn:oasis:names:tc:xspa:1.0:subject:purposeofuse"   DataType="urn:hl7-org:v3#CV"&gt;   &lt;AttributeValue&gt;     &lt;hl7:CodedValue code="1" codeSystem="1.0.14265.1" /&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	TODO: Clarify the need for the .1 at the end of the ISO OID

## 1.6 IHE XDS Document Attribute Bindings

### 1.6.1 Author Institution (Name)

<b>IHE XDS Definition</b>	4.2.3.1.4.1 as "authorInstitution": "Represents a specific healthcare facility under which the human and/or machines authored the document or SubmissionSet. This is a sub-attribute of the author attribute."
<b>ebXML Name</b>	classificationScheme="urn:uuid:93606bcf-9494-43ec-9b4e-a7748d1a838d"; Slot name="authorInstitution"
<b>ebXML Example</b>	<pre>&lt;rim:Slot name="authorInstitution"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;MercyHospital&lt;/rim:Value&gt;     &lt;rim:Value&gt;NY Mercy Hospital^^^^^^^^^^1.2.3.9.1789.45&lt;/rim:Value&gt;   &lt;/rim:ValueList&gt; &lt;/rim:Slot&gt;</pre>
<b>XACML Target Section</b>	resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:author-institution:name
<b>XACML Data Type</b>	<a href="http://www.w3.org/2001/XMLSchema#string">http://www.w3.org/2001/XMLSchema#string</a>
<b>XACML Attribute Value Content</b>	Use XON.1 of the authorInstitution

<b>Attribute ID also used in</b>	SubmissionSet
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:author- institution:name"   DataType="http://www.w3.org/2001/XMLSchema#string"&gt;   &lt;AttributeValue&gt;NY Mercy Hospital&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.6.2 Author Institution (ID)

<b>IHE XDS Definition</b>	4.2.3.1.4.1 as "authorInstitution": "Represents a specific healthcare facility under which the human and/or machines authored the document or SubmissionSet. This is a sub-attribute of the author attribute."
<b>ebXML Name</b>	classificationScheme="urn:uuid:93606bcf-9494-43ec-9b4e-a7748d1a838d"; Slot name="authorInstitution"
<b>ebXML Example</b>	<pre>&lt;rim:Slot name="authorInstitution"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;MercyHospital&lt;/rim:Value&gt;     &lt;rim:Value&gt;NY Mercy Hospital^^^^^^^^^1.2.3.9.1789.45&lt;/rim:Value&gt;   &lt;/rim:ValueList&gt; &lt;/rim:Slot&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:author-institution:id
<b>XACML Data Type</b>	urn:hl7-org:v3#II
<b>XACML Attribute Value Content</b>	Use XON.6.2 as root and XON.10 as extension or (if XON.10 is an OID) use XON.10 as root
<b>Attribute ID also used in</b>	SubmissionSet
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:author- institution:id"   DataType="urn:hl7-org:v3#II"&gt;</pre>

	<pre>&lt;AttributeValue&gt;   &lt;hl7:InstanceIdentifier root="1.2.3.9.1789.45"/&gt; &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.6.3 Author Person (Name)

<b>IHE XDS Definition</b>	4.2.3.1.4.2 as "authorPerson": "Represents the humans and/or machines that authored the document or SubmissionSet within the authorInstitution. The author may be the patient itself. This is a sub-attribute of the author attribute."
<b>ebXML Name</b>	classificationScheme="urn:uuid:93606bcf-9494-43ec-9b4e-a7748d1a838d"; Slot name="authorPerson"
<b>ebXML Example</b>	<pre>&lt;rim:Slot name="authorPerson"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;11375^Welby^Marcus^J^Jr. MD^Dr^^^&amp;1.2.840.113619.6.197&amp;ISO&lt;/rim:Value&gt;   &lt;/rim:ValueList&gt; &lt;/rim:Slot&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:author-person:name
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#string
<b>XACML Attribute Value Content</b>	Should use the format <prefix> <first name> <second and further given names> <last name> <suffix>
<b>Attribute ID also used in</b>	SubmissionSet
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:author- person:name"   DataType="http://www.w3.org/2001/XMLSchema#string"&gt;   &lt;AttributeValue&gt;Dr Marcus J Welby Jr. MD&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

#### 1.6.4 Author Person (ID)

<b>IHE XDS Definition</b>	4.2.3.1.4.2 as "authorPerson": "Represents the humans and/or machines that authored the document or SubmissionSet within the authorInstitution. The author may be the patient itself. This is a sub-attribute of the author attribute."
<b>ebXML Name</b>	classificationScheme="urn:uuid:93606bcf-9494-43ec-9b4e-a7748d1a838d"; Slot name="authorPerson"
<b>ebXML Example</b>	<pre>&lt;rim:Slot name="authorPerson"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;11375^Welby^Marcus^J^Jr. MD^Dr^^^&amp;1.2.840.113619.6.197&amp;ISO&lt;/rim:Value&gt;   &lt;/rim:ValueList&gt; &lt;/rim:Slot&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:author-person:id
<b>XACML Data Type</b>	urn:hl7-org:v3#II
<b>XACML Attribute Value Content</b>	Use XCN.9 as root and XCN.1 as extension or (if XCN.1 is an OID) use XCN.1 as root
<b>Attribute ID also used in</b>	SubmissionSet
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:author-person:id"   DataType="urn:hl7-org:v3#II"&gt;   &lt;AttributeValue&gt;     &lt;hl7:InstanceIdentifier extension="11375" root="1.2.840.113619.6.197"/&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.6.5 Author Role

<b>IHE XDS Definition</b>	4.2.3.1.4.3 as "authorRole": "A string that represents the role of the author with respect to the patient at the time the document or SubmissionSet was created. This is a sub-attribute of the author attribute."
<b>ebXML Name</b>	classificationScheme="urn:uuid:93606bcf-9494-43ec-9b4e-a7748d1a838d"; Slot name="authorRole"
<b>ebXML Example</b>	<pre>&lt;rim:Slot name="authorRole"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;       PCP^^^&amp;2.16.840.1.113883.19.9&amp;ISO     &lt;/rim:Value&gt;   &lt;/rim:ValueList&gt; &lt;/rim:Slot&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:author-role
<b>XACML Data Type</b>	urn:hl7-org:v3#CV
<b>XACML Attribute Value Content</b>	Use CX.4.2 as codeSystem and CX.1 as extension; if it is not coded as a CX data type, a default codeSystem must be defined for the affinity domain
<b>Attribute ID also used in</b>	SubmissionSet
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:author-role"   DataType="urn:hl7-org:v3#CV"&gt;   &lt;AttributeValue&gt;     &lt;hl7:CodedValue code="PCP" codeSystem="2.16.840.1.113883.19.9"/&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.6.6 Author Speciality

<b>IHE XDS Definition</b>	4.2.3.1.4.4 as "authorSpeciality": "Represents a specific speciality within a healthcare facility under which the human and/or machines authored the
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	document or SubmissionSet. This is a sub-attribute of the author attribute."
<b>ebXML Name</b>	classificationScheme="urn:uuid:93606bcf-9494-43ec-9b4e-a7748d1a838d"; Slot name="authorSpeciality"
<b>ebXML Example</b>	<pre>&lt;rim:Slot name="authorSpeciality"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;       Cardiology^^^&amp;2.16.840.1.113883.19.10&amp;ISO     &lt;/rim:Value&gt;   &lt;/rim:ValueList&gt; &lt;/rim:Slot&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:author-speciality
<b>XACML Data Type</b>	urn:hl7-org:v3#CV
<b>XACML Attribute Value Content</b>	Use CX.4.2 as codeSystem and CX.1 as extension; if it is not coded as a CX data type, a default codeSystem must be defined for the affinity domain
<b>Attribute ID also used in</b>	SubmissionSet
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:author-speciality"   DataType="urn:hl7-org:v3#CV"&gt;   &lt;AttributeValue&gt;     &lt;hl7:CodedValue code="Cardiology" codeSystem="2.16.840.1.113883.19.10"/&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.6.7 Availability Status

<b>IHE XDS Definition</b>	<p>4.2.3.2.2 as "DocumentEntry.availabilityStatus": "Represents the status of the DocumentEntry. A DocumentEntry shall have one of two availability statuses:</p> <p>Approved: The document is available for patient care.</p> <p>Deprecated: The document is obsolete."</p>
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<b>ebXML Name</b>	"status" attribute of "ExtrinsicObject" element
<b>ebXML Example</b>	<pre>&lt;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"&gt;   ...</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:availability-status
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#anyURI
<b>XACML Attribute Value Content</b>	"urn:oasis:names:tc:ebxml-regrep:StatusType:Approved" or "urn:oasis:names:tc:ebxml-regrep:StatusType:Deprecated" or any other valid availabilityStatus defined by an extension or by a new profile
<b>Attribute ID also used in</b>	Folder, SubmissionSet
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:availability- status"   DataType="http://www.w3.org/2001/XMLSchema#anyURI"&gt;   &lt;AttributeValue&gt;urn:oasis:names:tc:ebxml- regrep:StatusType:Approved&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.6.8 Class Code

<b>IHE XDS Definition</b>	4.2.3.2.3 as "DocumentEntry.classCode": "The code specifying the particular kind of document (e.g., Prescription, Discharge Summary, Report). Valid values for this metadata attribute are specified 1250 by the policies of the creating entity. It is recommended that the creating entity draws these values from a coding scheme providing a coarse level of granularity (about 10 to 100 entries). For example, XDS specifies that the XDS Affinity Domain will establish this list."
<b>ebXML Name</b>	classificationScheme="urn:uuid:41a5887f-8865-4c09-adf7-e362475b143a"

<b>ebXML Example</b>	<pre> &lt;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="10160-0" &gt;   &lt;rim:Name&gt;     &lt;rim:LocalizedString value="History of Medication Use"/&gt;   &lt;/rim:Name&gt;   &lt;rim:Slot name="codingScheme"&gt;     &lt;rim:ValueList&gt;      &lt;rim:Value&gt;2.16.840.1.113883.6.1&lt;/rim:Value&gt;     &lt;/rim:ValueList&gt;   &lt;/rim:Slot&gt; &lt;/rim:Classification&gt; </pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:document-entry:class-code
<b>XACML Data Type</b>	urn:hl7-org:v3#CV
<b>XACML Attribute Value Content</b>	
<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre> &lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:document- entry:class-code"   DataType="urn:hl7-org:v3#CV"&gt;   &lt;AttributeValue&gt;     &lt;hl7:CodedValue code="10160-0" codeSystem="2.16.840.1.113883.6.1"/&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt; </pre>
<b>Comment</b>	

### 1.6.9 Confidentiality Code

<b>IHE XDS Definition</b>	4.2.3.2.5 as "DocumentEntry.confidentialityCode": "The code specifying the level of confidentiality of the document. These codes are set by policy of the creating entity and issues related to highly sensitive documents are beyond the scope of metadata definition. These issues are expected to be addressed separately. confidentialityCode is part of a codification scheme."
<b>ebXML Name</b>	classificationScheme="urn:uuid:f4f85eac-e6cb-4883-b524-f2705394840f"
<b>ebXML Example</b>	<pre>&lt;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"&gt;   &lt;rim:Name&gt;     &lt;rim:LocalizedString value="Normal"/&gt;   &lt;/rim:Name&gt;   &lt;rim:Slot name="codingScheme"&gt;     &lt;rim:ValueList&gt;      &lt;rim:Value&gt;2.16.840.1.113883.5.25&lt;/rim:Value&gt;     &lt;/rim:ValueList&gt;   &lt;/rim:Slot&gt; &lt;/rim:Classification&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:confidentiality-code
<b>XACML Data Type</b>	urn:hl7-org:v3#CV
<b>XACML Attribute Value Content</b>	
<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:confidentiality- code"   DataType="urn:hl7-org:v3#CV"&gt;   &lt;AttributeValue&gt;</pre>

	<pre>&lt;h17:CodedValue code="N" codeSystem="2.16.840.1.113883.5.25"/&gt; &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.6.10 Creation Time

<b>IHE XDS Definition</b>	4.2.3.2.6 as "DocumentEntry.creationTime": "Represents the time the author created the document."
<b>ebXML Name</b>	Slot name = "creationTime"
<b>ebXML Example</b>	<pre>&lt;rim:Slot name="creationTime"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;20041225212010&lt;/rim:Value&gt;   &lt;/rim:ValueList&gt; &lt;/rim:Slot&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:document-entry:creation-time
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#dateTime
<b>XACML Attribute Value Content</b>	<p>This point in time must be transformed into a valid instance of an XML dateTime (which is based of ISO8601). This may involve adding date or time components, because in XDS the DTM data type allows for partial dates. To transform incomplete creationDates into dateTime instances the implementor MUST use the smallest instant covered by the partial date. E.g. "200904" would be transformed to "2009-04-01T00:00:00Z".</p> <p>The XACML dateTime must be expressed as UTC using 'Z' as the timezone indicator. The XDS DTM data type also allows only for UTC as the timezone, therefore no transformation is necessary.</p>
<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:document- entry:creation-time"   DataType="http://www.w3.org/2001/XMLSchema#dateTime"&gt;   &lt;AttributeValue&gt;2004-12-25T21:20:10Z&lt;/AttributeValue&gt;</pre>

	</Attribute>
<b>Comment</b>	

### 1.6.11 Event Code

<b>IHE XDS Definition</b>	4.2.3.2.8 as "DocumentEntry.eventCodeList": "This list of codes represents the main clinical acts, such as a colonoscopy or an appendectomy, being documented. In some cases, the event is inherent in the typeCode, such as a "History and Physical Report" in which the procedure being documented is necessarily a "History and Physical" act. An event can further specialize the act inherent in the typeCode, such as where it is 1365 simply "Procedure Report" and the procedure was a "colonoscopy". When defining the value sets for eventCodes, they should not conflict with the values inherent in the classCode, practiceSettingCode or typeCode as such a conflict would create an ambiguous situation."
<b>ebXML Name</b>	classificationScheme="urn:uuid:2c6b8cb7-8b2a-4051-b291-b1ae6a575ef4"
<b>ebXML Example</b>	<pre>&lt;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="45.23"&gt;   &lt;rim:Name&gt;     &lt;rim:LocalizedString value="Colonoscopy"/&gt;   &lt;/rim:Name&gt;   &lt;rim:Slot name="codingScheme"&gt;     &lt;rim:ValueList&gt;       &lt;rim:Value&gt;ICD-9-CM&lt;/rim:Value&gt;     &lt;/rim:ValueList&gt;   &lt;/rim:Slot&gt; &lt;/rim:Classification&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:document-entry:event-code
<b>XACML Data Type</b>	urn:hl7-org:v3#CV
<b>XACML</b>	

<b>Attribute Value Content</b>	
<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:document- entry:event-code"   DataType="urn:hl7-org:v3#CV"&gt;   &lt;AttributeValue&gt;     &lt;hl7:CodedValue code="45.23" codeSystem="2.16.840.1.113883.6.2"/&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.6.12 Healthcare Facility Type Code

<b>IHE XDS Definition</b>	4.2.3.2.11 as "DocumentEntry .healthcareFacilityTypeCode": "This code represents the type of organizational setting of the clinical encounter during which the documented act occurred. In some cases, the setting of the encounter is inherent in the typeCode, such as "Diabetes Clinic Progress Note". healthcareFacilityTypeCode shall be equivalent to or further specialize the value inherent in the typeCode; for example, where the typeCode is simply "Clinic Progress Note" and the value of healthcareFacilityTypeCode is "private clinic"."
<b>ebXML Name</b>	classificationScheme="urn:uuid:f33fb8ac-18af-42cc-ae0e-ed0b0bdb91e1"
<b>ebXML Example</b>	<pre>&lt;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="310400000X"&gt;   &lt;rim:Name&gt;     &lt;rim:value="Assisted Living Facility"/&gt;   &lt;/rim:Name&gt;   &lt;rim:Slot name="codingScheme"&gt;     &lt;rim:ValueList&gt;       &lt;rim:Value&gt;NUCC Health Care Provider Taxonomy&lt;/rim:Value&gt;     &lt;/rim:ValueList&gt;   &lt;/rim:Slot&gt;</pre>

	</rim:Classification>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:document-entry:healthcare-facility-type-code
<b>XACML Data Type</b>	urn:hl7-org:v3#CV
<b>XACML Attribute Value Content</b>	
<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:document- entry:healthcare-facility-type-code"   DataType="urn:hl7-org:v3#CV"&gt;   &lt;AttributeValue&gt;     &lt;hl7:CodedValue code="310400000X " codeSystem="2.16.840.1.113883.6.101"/&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.6.13 Home Community ID

<b>IHE XDS Definition</b>	4.2.3.2.12 as "DocumentEntry .homeCommunityId": "A globally unique identifier for a community where the DocumentEntry and document can be accessed."
<b>ebXML Name</b>	"home" attribute of ExtrinsicObject element
<b>ebXML Example</b>	<pre>&lt;rim:ExtrinsicObject   home="urn:oid:2.16.840.1.113883.19.14" ...&gt;   ... &lt;/rim:ExtrinsicObject&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:home-community-id

<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#anyURI
<b>XACML Attribute Value Content</b>	The identifier MUST be an Object Identifier (OID), using the urn format ("urn:oid:" appended with the OID)
<b>Attribute ID also used in</b>	Folder, SubmissionSet
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:home-community-id"   DataType="http://www.w3.org/2001/XMLSchema#anyURI"&gt;   &lt;AttributeValue&gt;     urn:oid:2.16.840.1.113883.19.14   &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

#### 1.6.14 Legal Authenticator

<b>IHE XDS Definition</b>	4.2.3.1.4.14 as "legalAuthenticator": "Represents a participant within the authorInstitution who has legally authenticated or attested the document. Legal authentication implies that a document has been signed manually or electronically by the legalAuthenticator."
<b>ebXML Name</b>	Slot name="legalAuthenticator"
<b>ebXML Example</b>	<pre>&lt;rim:Slot name="legalAuthenticator"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;11375^Welby^Marcus^J^Jr.     MD^Dr^^^&amp;1.2.840.113619.6.197&amp;ISO&lt;/rim:Value&gt;   &lt;/rim:ValueList&gt; &lt;/rim:Slot&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:document-entry:legal-authenticator:id
<b>XACML Data Type</b>	urn:hl7-org:v3#II
<b>XACML Attribute Value Content</b>	Use XCN.9 as root and XCN.1 as extension or (if XCN.1 is an OID) use XCN.1 as root



<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:document- entry:legal-authenticator:id"   DataType="urn:hl7-org:v3#II"&gt;   &lt;AttributeValue&gt;     &lt;hl7:InstanceIdentifier extension="11375" root="1.2.840.113619.6.197"/&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.6.15 Patient ID

<b>IHE XDS Definition</b>	4.2.3.1.4.16 as "DocumentEntry.patientId": "The patientId represents the subject of care of the document. For XDS the patient identifier domain is the XDS Affinity Domain Patient Identifier Domain (XAD-PID). Within a submission request, the value of patientId of the DocumentEntries shall match that of the SubmissionSet."
<b>ebXML Name</b>	ExternalIdentifier with identificationScheme= "urn:uuid:58a6f841-87b3-4a3e-92fd-a8ffeff98427"
<b>ebXML Example</b>	<pre>&lt;rim:ExternalIdentifier   identificationScheme=     "urn:uuid:58a6f841-87b3-4a3e-92fd-a8ffeff98427"   value="6578946^^^&amp;1.3.6.1.4.1.21367.2005.3.7&amp;ISO"   id="IdExample_051"   objectType="urn:oasis:names:tc:ebxml- regrep:ObjectType:RegistryObject:ExternalIdentifier"   registryObject="DocumentEntry01"&gt;   &lt;rim:Name&gt;     &lt;rim:LocalizedString       value="XSDocumentEntry.patientId "/&gt;     &lt;/rim:Name&gt; &lt;/rim:ExternalIdentifier&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:patient-id
<b>XACML Data Type</b>	urn:hl7-org:v3#II

<b>XACML Attribute Value Content</b>	Use CX.4 as root and CX.1 as extension
<b>Attribute ID also used in</b>	Folder, SubmissionSet
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:patient-id"   DataType="urn:hl7-org:v3#II"&gt;   &lt;AttributeValue&gt;     &lt;hl7:InstanceIdentifier extension="6578946" root="1.3.6.1.4.1.21367.2005.3.7"/&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.6.16 Practice Setting Code

<b>IHE XDS Definition</b>	4.2.3.2.17 as "DocumentEntry.practiceSettingCode": "The code specifying the clinical specialty where the act that resulted in the document was performed (e.g., Family Practice, Laboratory, Radiology). It is suggested that the creating entity draws these values from a coding scheme providing a coarse level of granularity (about 10 to 100 entries)."
<b>ebXML Name</b>	classificationScheme="urn:uuid:cccf5598-8b07-4b77-a05e-ae952c785ead"
<b>ebXML Example</b>	<pre>&lt;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="213ER0200X"&gt;   &lt;rim:Name&gt;     &lt;rim:LocalizedString value="Radiology"/&gt;   &lt;/rim:Name&gt;   &lt;rim:Slot name="codingScheme"&gt;     &lt;rim:ValueList&gt;       &lt;rim:Value&gt;NUCC Health Care Provider Taxonomy&lt;/rim:Value&gt;     &lt;/rim:ValueList&gt;   &lt;/rim:Slot&gt; &lt;/rim:Classification&gt;</pre>
<b>XACML</b>	Resource

<b>Target Section</b>	
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:document-entry:practice-setting-code
<b>XACML Data Type</b>	urn:hl7-org:v3#CV
<b>XACML Attribute Value Content</b>	
<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:document- entry:practice-setting-code"   DataType="urn:hl7-org:v3#CV"&gt;   &lt;AttributeValue&gt;     &lt;hl7:CodedValue code="213ER0200X " codeSystem="2.16.840.1.113883.6.101"/&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.6.17 Repository Unique ID

<b>IHE XDS Definition</b>	4.2.3.1.4.18 as "DocumentEntry.repositoryUniqueId": "The patientId represents the subject of care of the document. For XDS the patient identifier domain is the XDS Affinity Domain Patient Identifier Domain (XAD-PID). Within a submission request, the value of patientId of the DocumentEntries shall match that of the SubmissionSet."
<b>ebXML Name</b>	Slot name = "repositoryUniqueId"
<b>ebXML Example</b>	<pre>&lt;rim:Slot name="repositoryUniqueId"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;1.3.6.1.4.5&lt;/rim:Value&gt;   &lt;/rim:ValueList&gt; &lt;/rim:Slot&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:document-entry:repository-unique-id

<b>XACML Data Type</b>	urn:hl7-org:v3#II
<b>XACML Attribute Value Content</b>	Use the repository unique ID (which has to be an OID) as the root of the Instance Identifier.
<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:document- entry:repository-unique-id"   DataType="urn:hl7-org:v3#II"&gt;   &lt;AttributeValue&gt;     &lt;hl7:InstanceIdentifier root="1.3.6.1.4.5"/&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.6.18 Service Start Time

<b>IHE XDS Definition</b>	4.2.3.2.19 as "DocumentEntry.serviceStartTime": "Represents the start 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."
<b>ebXML Name</b>	Slot name = "serviceStartTime"
<b>ebXML Example</b>	<pre>&lt;rim:Slot name="serviceStartTime"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;20041225212010&lt;/rim:Value&gt;   &lt;/rim:ValueList&gt; &lt;/rim:Slot&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:document-entry:service-start-time
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#dateTime
<b>XACML Attribute</b>	This point in time must be transformed into a valid instance of an XML dateTime (which is based of ISO8601). This may involve adding date or time

<b>Value Content</b>	<p>components, because in XDS the DTM data type allows for partial dates. To transform incomplete serviceStartTimes into dateTime instances the implementor MUST use the smallest instant covered by the partial date. E.g. "200904" would be transformed to "2009-04-01T00:00:00Z".</p> <p>The XACML dateTime must be expressed as UTC using 'Z' as the timezone indicator. The XDS DTM data type also allows only for UTC as the timezone, therefore no transformation is necessary.</p>
<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:document- entry:service-start-time"   DataType="http://www.w3.org/2001/XMLSchema#dateTime"&gt;   &lt;AttributeValue&gt;2004-12-25T21:20:10Z&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.6.19 Service Stop Time

<b>IHE XDS Definition</b>	4.2.3.2.20 as "DocumentEntry.serviceStopTime": "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."
<b>ebXML Name</b>	Slot name = "serviceStopTime"
<b>ebXML Example</b>	<pre>&lt;rim:Slot name="serviceStopTime"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;20041225212010&lt;/rim:Value&gt;   &lt;/rim:ValueList&gt; &lt;/rim:Slot&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:document-entry:service-stop-time
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#dateTime
<b>XACML</b>	This point in time must be transformed into a valid instance of an XML

<b>Attribute Value Content</b>	<p>dateTime (which is based of ISO8601). This may involve adding date or time components, because in XDS the DTM data type allows for partial dates. To transform incomplete serviceStopTimes into dateTime instances the implementor <b>MUST</b> use the biggest instant covered by the partial date (ignoring fractions of seconds). E.g. "200904" would be transformed to "2009-04-30T23:59:59Z". Implementors must handle leap years, but may ignore leap seconds.</p> <p>The XACML dateTime must be expressed as UTC using ,Z' as the timezone indicator. The XDS DTM data type also allows only for UTC as the timezone, therefore no transformation is necessary.</p>
<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:document- entry:service-stop-time"   DataType="http://www.w3.org/2001/XMLSchema#dateTime"&gt;   &lt;AttributeValue&gt;2004-12-25T21:20:10Z&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	The special case of leap years may be a relevant implementation hurdle when dealing with the partial date "xxxx02".

### 1.6.20 Source Patient ID

<b>IHE XDS Definition</b>	4.2.3.1.4.22 as "DocumentEntry.sourcePatientId": "The sourcePatientId represents the subject of care's medical record Identifier (e.g., Patient Id) in the local patient identifier domain of the creating entity at the time the document entry was submitted."
<b>ebXML Name</b>	Slot name= "sourcePatientId"
<b>ebXML Example</b>	<pre>&lt;rim:Slot name="sourcePatientId"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;j98789^^^&amp;1.2.3.4.343.1&amp;ISO     &lt;/rim:Value&gt;   &lt;/rim:ValueList&gt; &lt;/rim:Slot&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:document-entry:source-patient-id

<b>XACML Data Type</b>	urn:hl7-org:v3#II
<b>XACML Attribute Value Content</b>	Use CX.4 as root and CX.1 as extension
<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:document- entry:source-patient-id"   DataType="urn:hl7-org:v3#II"&gt;   &lt;AttributeValue&gt;     &lt;hl7:InstanceIdentifier extension="j98789" root="1.2.3.4.343.1"/&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.6.21 Type Code

<b>IHE XDS Definition</b>	4.2.3.2.25 as "DocumentEntry.typeCode": "The code specifying the precise kind of document (e.g., Pulmonary History and Physical, Discharge Summary, Ultrasound Report). It is recommended that the creating entity draw these values from a coding scheme providing a fine level of granularity."
<b>ebXML Name</b>	classificationScheme="urn:uuid:f0306f51-975f-434e-a61c-c59651d33983"
<b>ebXML Example</b>	<pre>&lt;rim:Classification   classificationScheme="urn:uuid:f0306f51-975f-434e-a61c- c59651d33983"   classifiedObject="ExampleDocument"   nodeRepresentation="57016-8"   id="IdExample_053"   objectType="urn:oasis:names:tc:ebxml- regrep:ObjectType:RegistryObject:Classification"&gt;   &lt;rim:Name&gt;     &lt;rim:LocalizedString value="Privacy Policy Acknowledgement Document" /&gt;   &lt;/rim:Name&gt;   &lt;rim:Slot name="codingScheme"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;2.16.840.1.113883.6.1&lt;/rim:Value&gt;   &lt;/rim:ValueList&gt;   &lt;/rim:Slot&gt; &lt;/rim:Classification&gt;</pre>

<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:document-entry:type-code
<b>XACML Data Type</b>	urn:hl7-org:v3#CV
<b>XACML Attribute Value Content</b>	
<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:document- entry:type-code "   DataType="urn:hl7-org:v3#CV"&gt;   &lt;AttributeValue&gt;     &lt;hl7:CodedValue code="57016-8" codeSystem="2.16.840.1.113883.6.1"/&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.6.22 Document Unique ID

<b>IHE XDS Definition</b>	4.2.3.2.26 as "DocumentEntry.uniqueId": "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."
<b>ebXML Name</b>	ExternalIdentifier with identificationScheme="urn:uuid:2e82c1f6-a085-4c72-9da3-8640a32e42ab"
<b>ebXML Example</b>	<pre>&lt;rim:ExternalIdentifier   identificationScheme= "urn:uuid:2e82c1f6-a085-4c72-9da3-8640a32e42ab"   value="1.2.3.4.5.6.78901.2345.6.7^123456"   id="IdExample_054"   objectType="urn:oasis:names:tc:ebxml- regrep:ObjectType:RegistryObject:ExternalIdentifier"   registryObject="DocumentEntry01"&gt; &lt;rim:Name&gt;</pre>



	<pre> &lt;rim:LocalizedString value="XSDDocumentEntry.uniqueId"/&gt; &lt;/rim:Name&gt; &lt;/rim:ExternalIdentifier&gt; </pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:oasis:names:tc:xacml:1.0:resource:resource-id
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#string
<b>XACML Attribute Value Content</b>	
<b>Attribute ID also used in</b>	Folder, SubmissionSet
<b>XACML Example</b>	<pre> &lt;Attribute AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource- id" DataType="http://www.w3.org/2001/XMLSchema#string"&gt; &lt;AttributeValue&gt;1.2.3.4.5.6.78901.2345.6.7^123456&lt;/AttributeVa lue&gt; &lt;/Attribute&gt; </pre>
<b>Comment</b>	

### 1.6.23 Related Folder Unique ID

<b>IHE XDS Definition</b>	4.2.3.4.9 as "Folder.uniqueId": "Globally unique identifier for the folder instance assigned by the creating entity."
<b>ebXML Name</b>	ExternalIdentifier with identificationScheme="urn:uuid:75df8f67-9973-4fbe-a900-df66cefec5a"
<b>ebXML Example</b>	<pre> &lt;rim:ExternalIdentifier identificationScheme="urn:uuid:75df8f67-9973-4fbe-a900- df66cefec5a" id="IdExample_059" objectType="urn:oasis:names:tc:ebxml- regrep:Object:RegistryObject:ExternalIdentifier" value="1.3.6.1.4.1.21367.2005.3.7.3670984664" registryObject="Folder01"&gt; &lt;rim:Name&gt; &lt;rim:LocalizedString </pre>

	<pre>value="XDSFolder.uniqueId"/&gt;   &lt;/rim:Name&gt; &lt;/rim:ExternalIdentifier&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:document-entry:related-folder:id
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#string
<b>XACML Attribute Value Content</b>	The implementor MUST include the uniqueIDs of all folders currently associated with the document entry, i.e. folders that are associated via the hasMember association and where the folder availabilityStatus is "Approved". Please note that they are entered into the context as attributes of the document entry.
<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:document-entry:related-   folder:id"   DataType="http://www.w3.org/2001/XMLSchema#string"&gt;   &lt;AttributeValue&gt;     1.3.6.1.4.1.21367.2005.3.7.3670984664&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	Interpreting the related folders as attributes of the documentEntry, allows for using folders to control access to documents, e.g. granting access to all documents associated with a specific folder.

### 1.6.24 Related Folder Code

<b>IHE XDS Definition</b>	4.2.3.4.2 as "Folder.codeList": "Shall contain the set of codes specifying the type of clinical activity that resulted in placing Documents in this Folder. These values shall be drawn from a vocabulary or coding scheme defined by the creating entity."
<b>ebXML Name</b>	ExternalIdentifier with identificationScheme="urn:uuid:75df8f67-9973-4fbe-a900-df66cefec5a"
<b>ebXML Example</b>	<pre>&lt;rim:Classification   classificationScheme="urn:uuid:1ba97051-7806-41a8-a48b-   8fce7af683c5"   classifiedObject="ExampleFolder"   id="IdExample 062"</pre>

	<pre> objectType="urn:oasis:names:tc:ebxml- regrep:ObjectType:RegistryObject:Classification" nodeRepresentation="EMER"&gt;   &lt;rim:Name&gt;     &lt;rim:LocalizedString value="Emergency" /&gt;   &lt;/rim:Name&gt;   &lt;rim:Slot name="codingScheme"&gt;     &lt;rim:ValueList&gt;       &lt;rim:Value&gt;2.16.840.1.113883.1.11.13955&lt;/rim:Value&gt;     &lt;/rim:ValueList&gt;   &lt;/rim:Slot&gt; &lt;/rim:Classification&gt; </pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:document-entry:related-folder:code
<b>XACML Data Type</b>	urn:hl7-org:v3#CV
<b>XACML Attribute Value Content</b>	The implementor MUST include all codes of all folders currently associated with the document entry, i.e. folders that are associated via the hasMember association and where the folder availabilityStatus is "Approved". Please note that they are entered into the context as attributes of the document entry.
<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre> &lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:document-entry:related- folder:code"   DataType="urn:hl7-org:v3#CV"&gt;   &lt;AttributeValue&gt;     &lt;hl7:CodedValue code="EMER" codeSystem="2.16.840.1.113883.1.11.13955"/&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt; </pre>
<b>Comment</b>	Interpreting the related folders as attributes of the documentEntry, allows for using folders to control access to documents, e.g. granting access to all documents associated with a "emergency data" folder.

### 1.6.25 Source System ID

<b>IHE XDS Definition</b>	4.2.3.3.9 as "SubmissionSet.sourceId": "The globally unique, immutable, identifier of the entity that contributed the SubmissionSet. When a "broker" is involved in sending SubmissionSets from a collection of client systems, it
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	shall use a different sourceId for submissions from each separate system to allow for tracking."
<b>ebXML Name</b>	ExternalIdentifier with identificationScheme="urn:uuid:554ac39e-e3fe-47fe-b233-965d2a147832"
<b>ebXML Example</b>	<pre>&lt;rim:ExternalIdentifier   identificationScheme="urn:uuid:554ac39e-e3fe-47fe-b233-965d2a147832"   value="1.3.6.1.4.1.21367.2005.3.7"   id="IdExample_058"   objectType="urn:oasis:names:tc:ebxml-   regrep:ObjectType:RegistryObject:ExternalIdentifier"   registryObject="SubmissionSet01"&gt;   &lt;rim:Name&gt;     &lt;rim:LocalizedString   value="XDSSubmissionSet.sourceId"/&gt;   &lt;/rim:Name&gt; &lt;/rim:ExternalIdentifier&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007: source-system-id
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#anyURI
<b>XACML Attribute Value Content</b>	The implementor MUST include the sourceId of the SubmissionSet in which the document entry was originally submitted. Please note that it is entered into the context as an attribute of the document entry.
<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre>&lt;Attribute AttributeId="urn:ihe:iti:xds-b:2007:source-system-id"   DataType="http://www.w3.org/2001/XMLSchema#anyURI"&gt; &lt;AttributeValue&gt;1.3.6.1.4.1.21367.2005.3.7&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	Interpreting the submission source system as attributes of the documentEntry, allows for controlling access to documents based on "ownership", i.e. who uploaded the document. A typical example is extended visibility for documents uploaded by the user's organization.

### 1.6.26 Resource Type

<b>IHE XDS Definition</b>	4.2.3.2 as DocumentEntry
<b>ebXML Name</b>	ExtrinsicObject with id="urn:uuid:fbeacdb7-5421-4474-9267-985007cd8855"
<b>ebXML Example</b>	<pre>&lt;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"&gt;   ... &lt;/ExtrinsicObject&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe-d:cookbook:2013:resource-type
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#anyURI
<b>XACML Attribute Value Content</b>	for document entries fixed to "urn:ihe:iti:xds-b:2007:document-entry"
<b>Attribute ID also used in</b>	Folder, SubmissionSet
<b>XACML Example</b>	<pre>&lt;Attribute AttributeId="urn:ihe-d:cookbook:2013:resource-type"   DataType="http://www.w3.org/2001/XMLSchema#anyURI"&gt;   &lt;AttributeValue&gt;     urn:ihe:iti:xds-b:2007:document-entry   &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	The resource type attribute allows using the same AttributeID for attributes used multiple types (e.g. Author Person ID is used in SubmissionSet and in DocumentEntry). This allows for policy writers to create policies that are applicable to multiple types of resources (e.g. SubmissionSets and DocumentEntries) while retaining the ability to distinguish between them when necessary.

## 1.7 IHE Folder Attributes

### 1.7.1 Availability Status

<b>IHE XDS Definition</b>	4.2.3.4.1 as "Folder.availabilityStatus": "Represents the status of the Folder. Since the deprecation of Folders is not allowed, this value shall always be Approved."
<b>ebXML Name</b>	"status" attribute of "RegistryPackage" element
<b>ebXML Example</b>	<pre>&lt;rim:RegistryPackage id="urn:uuid:fbeacdb7-5421-4474-9267-985007cd8855"     status="urn:oasis:names:tc:ebxml-     regrep:StatusType:Approved"&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:availability-status
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#anyURI
<b>XACML Attribute Value Content</b>	"urn:oasis:names:tc:ebxml-regrep:StatusType:Approved" or "urn:oasis:names:tc:ebxml-regrep:StatusType:Deprecated" or any other valid availabilityStatus defined by an extension or by a new profile
<b>Attribute ID also used in</b>	DocumentEntry, SubmissionSet
<b>XACML Example</b>	<pre>&lt;Attribute     AttributeId="urn:ihe:iti:xds-b:2007:availability-     status"     DataType="http://www.w3.org/2001/XMLSchema#anyURI"&gt;     &lt;AttributeValue&gt;urn:oasis:names:tc:ebxml-     regrep:StatusType:Approved&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.7.2 Code

<b>IHE XDS Definition</b>	4.2.3.4.2 as "Folder.codeList": "Shall contain the set of codes specifying the type of clinical activity that resulted in placing Documents in this Folder. These values shall be drawn from a vocabulary or coding scheme defined by the creating entity."
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<b>ebXML Name</b>	ExternalIdentifier with identificationScheme="urn:uuid:75df8f67-9973-4fbe-a900-df66cefec5a"
<b>ebXML Example</b>	<pre> &lt;rim:Classification   classificationScheme="urn:uuid:1ba97051-7806-41a8-a48b- 8fce7af683c5"   classifiedObject="ExampleFolder"   id="IdExample_062"   objectType="urn:oasis:names:tc:ebxml- regrep:ObjectType:RegistryObject:Classification"   nodeRepresentation="EMER"&gt;   &lt;rim:Name&gt;     &lt;rim:LocalizedString value="Emergency" /&gt;   &lt;/rim:Name&gt;   &lt;rim:Slot name="codingScheme"&gt;     &lt;rim:ValueList&gt;      &lt;rim:Value&gt;2.16.840.1.113883.1.11.13955&lt;/rim:Value&gt;     &lt;/rim:ValueList&gt;   &lt;/rim:Slot&gt; &lt;/rim:Classification&gt; </pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:folder:code
<b>XACML Data Type</b>	urn:hl7-org:v3#CV
<b>XACML Attribute Value Content</b>	
<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre> &lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:folder:code"   DataType="urn:hl7-org:v3#CV"&gt;   &lt;AttributeValue&gt;     &lt;hl7:CodedValue code="EMER" codeSystem="2.16.840.1.113883.1.11.13955"/&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt; </pre>
<b>Comment</b>	

### 1.7.3 Home Community ID

<b>IHE XDS Definition</b>	4.2.3.4.5 as "Folder.homeCommunityId": "A globally unique identifier for a community."
<b>ebXML Name</b>	"home" attribute of RegistryPackage element
<b>ebXML Example</b>	<pre>&lt;rim:RegistryPackage   home="urn:oid:2.16.840.1.113883.19.14" ...&gt;   ... &lt;/rim:RegistryPackage &gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:home-community-id
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#anyURI
<b>XACML Attribute Value Content</b>	The identifier MUST be an Object Identifier (OID), using the urn format ("urn:oid:" appended with the OID)
<b>Attribute ID also used in</b>	DocumentEntry, SubmissionSet
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:home-community-id"   DataType="http://www.w3.org/2001/XMLSchema#anyURI"&gt;   &lt;AttributeValue&gt;urn:oid:2.16.840.1.113883.19.14&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.7.4 Last Update Time

<b>IHE XDS Definition</b>	4.2.3.4.6 as "Folder.lastUpdateTime": "Most recent point in time when a DocumentEntry was placed in the Folder."
<b>ebXML Name</b>	Slot name = "lastUpdateTime"
<b>ebXML Example</b>	<pre>&lt;rim:Slot name="lastUpdateTime"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;20041225212010&lt;/rim:Value&gt;   &lt;/rim:ValueList&gt; &lt;/rim:Slot&gt;</pre>



<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:folder:last-update-time
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#dateTime
<b>XACML Attribute Value Content</b>	This point in time must be transformed into a valid instance of an XML dateTime (which is based of ISO8601). This does not involve adding date or time components, because the last update time is set automatically by the registry. The XACML dateTime must be expressed as UTC using 'Z' as the timezone indicator. The XDS DTM data type also allows only for UTC as the timezone, therefore no transformation is necessary.
<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:folder:last- update-time"   DataType="http://www.w3.org/2001/XMLSchema#dateTime"&gt;   &lt;AttributeValue&gt;2004-12-25T21:20:10Z&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.7.5 Patient ID

<b>IHE XDS Definition</b>	4.2.3.4.7 as "Folder.patientId": "The patientId represents the primary subject of care of the Folder. The value of the patientId shall be the same for all new documents of a SubmissionSet. All DocumentEntries placed in a Folder shall have the same patientId as the Folder."
<b>ebXML Name</b>	ExternalIdentifier with identificationScheme="urn:uuid:f64ffdf0-4b97-4e06-b79f-a52b38ec2f8a"
<b>ebXML Example</b>	<pre>&lt;rim:ExternalIdentifier   identificationScheme="urn:uuid:f64ffdf0-4b97-4e06-b79f- a52b38ec2f8a"   value="6578946^^^&amp;1.3.6.1.4.1.21367.2005.3.7&amp;ISO"   id="IdExample_057"   objectType="urn:oasis:names:tc:ebxml- regrep:ObjectType:RegistryObject:ExternalIdentifier"&gt;    &lt;rim:Name&gt;     &lt;rim:LocalizedString value="XDSFolder.patientId"/&gt;   &lt;/rim:Name&gt;</pre>

	</rim:ExternalIdentifier>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:patient-id
<b>XACML Data Type</b>	urn:hl7-org:v3#II
<b>XACML Attribute Value Content</b>	Use CX.4 as root and CX.1 as extension
<b>Attribute ID also used in</b>	DocumentEntry, SubmissionSet
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:patient-id"   DataType="urn:hl7-org:v3#II"&gt;    &lt;AttributeValue&gt;     &lt;hl7:InstanceIdentifier extension="6578946"       root="1.3.6.1.4.1.21367.2005.3.7"/&gt;     &lt;/AttributeValue&gt;   &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.7.6 Folder Unique ID

<b>IHE XDS Definition</b>	4.2.3.4.9 as "Folder.uniqueId": "Globally unique identifier for the folder instance assigned by the creating entity."
<b>ebXML Name</b>	ExternalIdentifier with identificationScheme="urn:uuid:75df8f67-9973-4fbe-a900-df66cefecc5a"
<b>ebXML Example</b>	<pre>&lt;rim:ExternalIdentifier   identificationScheme="urn:uuid:75df8f67-9973-4fbe-a900- df66cefecc5a"   id="IdExample_059"   objectType="urn:oasis:names:tc:ebxml- regrep:ObjectType:RegistryObject:ExternalIdentifier"   value="1.3.6.1.4.1.21367.2005.3.7.3670984664"   registryObject="Folder01"&gt;   &lt;rim:Name&gt;     &lt;rim:LocalizedString value="XDSFolder.uniqueId"/&gt;   &lt;/rim:Name&gt; &lt;/rim:ExternalIdentifier&gt;</pre>

<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:oasis:names:tc:xacml:1.0:resource:resource-id
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#string
<b>XACML Attribute Value Content</b>	
<b>Attribute ID also used in</b>	DocumentEntry, SubmissionSet
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource-id"   DataType="http://www.w3.org/2001/XMLSchema#string"&gt;   &lt;AttributeValue&gt;1.3.6.1.4.1.21367.2005.3.7.3670984664&lt;/Attribut   eValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.7.7 Source System ID

<b>IHE XDS Definition</b>	4.2.3.3.9 as "SubmissionSet.sourceId": "The globally unique, immutable, identifier of the entity that contributed the SubmissionSet. When a "broker" is involved in sending SubmissionSets from a collection of client systems, it shall use a different sourceId for submissions from each separate system to allow for tracking."
<b>ebXML Name</b>	ExternalIdentifier with identificationScheme="urn:uuid:554ac39e-e3fe-47fe-b233-965d2a147832"
<b>ebXML Example</b>	<pre>&lt;rim:ExternalIdentifier   identificationScheme="urn:uuid:554ac39e-e3fe-47fe-b233-   965d2a147832"   value="1.3.6.1.4.1.21367.2005.3.7"   id="IdExample_058"   objectType="urn:oasis:names:tc:ebxml-   regrep:ObjectType:RegistryObject:ExternalIdentifier"   registryObject="SubmissionSet01"&gt;   &lt;rim:Name&gt;     &lt;rim:LocalizedString value =     "XDSSubmissionSet.sourceId"/&gt;</pre>

	<pre> &lt;/rim:Name&gt; &lt;/rim:ExternalIdentifier&gt; </pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:source-system-id
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#anyURI
<b>XACML Attribute Value Content</b>	The implementor MUST include the sourceId of the SubmissionSet in which the folder entry was originally submitted. Please note that it is entered into the context as an attribute of the folder.
<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre> &lt;Attribute AttributeId="urn:ihe:iti:xds-b:2007: source- system-id"     DataType="http://www.w3.org/2001/XMLSchema#anyURI"&gt;     &lt;AttributeValue&gt;     1.3.6.1.4.1.21367.2005.3.7&lt;/AttributeValue&gt; &lt;/Attribute&gt; </pre>
<b>Comment</b>	

### 1.7.8 Resource Type

<b>IHE XDS Definition</b>	4.2.3.4 as Folder
<b>ebXML Name</b>	ExtrinsicObject with id="urn:uuid:fbeacdb7-5421-4474-9267-985007cd8855"
<b>ebXML Example</b>	<pre> &lt;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"&gt;     ... &lt;/ExtrinsicObject&gt; </pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe-d:cookbook:2013:resource-type

<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#anyURI
<b>XACML Attribute Value Content</b>	for folders fixed to "urn:ihe:iti:xds-b:2007:folder"
<b>Attribute ID also used in</b>	DocumentEntry, SubmissionSet
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe-d:cookbook:2013:resource-type"   DataType="http://www.w3.org/2001/XMLSchema#anyURI"&gt;   &lt;AttributeValue&gt;urn:ihe:iti:xds- b:2007:folder&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	<p>The resource type attribute allows using the same AttributeID for attributes used multiple types (e.g. Author Person ID is used in SubmissionSet and in DocumentEntry). This allows for policy writers to create policies that are applicable to multiple types of resources (e.g. SubmissionSets and DocumentEntries) while retaining the ability to distinguish between them when necessary.</p> <p>TODO: Check if the folder ebXML is correct</p>

## 1.8 Submission Set

### 1.8.1 Author Institution (Name)

<b>IHE XDS Definition</b>	4.2.3.1.4.1 as "authorInstitution": "Represents a specific healthcare facility under which the human and/or machines authored the document or SubmissionSet. This is a sub-attribute of the author attribute."
<b>ebXML Name</b>	classificationScheme="urn:uuid:a7058bb9-b4e4-4307-ba5b-e3f0ab85e12d"; Slot name="authorInstitution"
<b>ebXML Example</b>	<pre>&lt;rim:Slot name="authorInstitution"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;MercyHospital&lt;/rim:Value&gt;     &lt;rim:Value&gt;NY Mercy Hospital^^^^^^^^^1.2.3.9.1789.45&lt;/rim:Value&gt;   &lt;/rim:ValueList&gt; &lt;/rim:Slot&gt;</pre>
<b>XACML Target Section</b>	resource

<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:author-institution:name
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#string
<b>XACML Attribute Value Content</b>	Use XON.1 of the authorInstitution
<b>Attribute ID also used in</b>	DocumentEntry
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:author- institution:name"   DataType="http://www.w3.org/2001/XMLSchema#string"&gt;   &lt;AttributeValue&gt;NY Mercy Hospital&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.8.2 Author Institution (ID)

<b>IHE XDS Definition</b>	4.2.3.1.4.1 as "authorInstitution": "Represents a specific healthcare facility under which the human and/or machines authored the document or SubmissionSet. This is a sub-attribute of the author attribute."
<b>ebXML Name</b>	classificationScheme="urn:uuid:a7058bb9-b4e4-4307-ba5b-e3f0ab85e12d"; Slot name="authorInstitution"
<b>ebXML Example</b>	<pre>&lt;rim:Slot name="authorInstitution"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;MercyHospital&lt;/rim:Value&gt;     &lt;rim:Value&gt;NY Mercy Hospital^^^^^^^^^1.2.3.9.1789.45&lt;/rim:Value&gt;   &lt;/rim:ValueList&gt; &lt;/rim:Slot&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:author-institution:id
<b>XACML Data Type</b>	urn:hl7-org:v3#II

<b>XACML Attribute Value Content</b>	Use XON.6.2 as root and XON.10 as extension or (if XON.10 is an OID) use XON.10 as root
<b>Attribute ID also used in</b>	DocumentEntry
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:author- institution:id"   DataType="urn:hl7-org:v3#II"&gt;   &lt;AttributeValue&gt;     &lt;hl7:InstanceIdentifier root="1.2.3.9.1789.45"/&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.8.3 Author Person (Name)

<b>IHE XDS Definition</b>	4.2.3.1.4.2 as "authorPerson": "Represents the humans and/or machines that authored the document or SubmissionSet within the authorInstitution. The author may be the patient itself. This is a sub-attribute of the author attribute."
<b>ebXML Name</b>	classificationScheme="urn:uuid:a7058bb9-b4e4-4307-ba5b-e3f0ab85e12d"; Slot name="authorPerson"
<b>ebXML Example</b>	<pre>&lt;rim:Slot name="authorPerson"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;11375^Welby^Marcus^J^Jr. MD^Dr^^^&amp;1.2.840.113619.6.197&amp;ISO&lt;/rim:Value&gt;   &lt;/rim:ValueList&gt; &lt;/rim:Slot&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:author-person:name
<b>XACML Data Type</b>	<a href="http://www.w3.org/2001/XMLSchema#string">http://www.w3.org/2001/XMLSchema#string</a>
<b>XACML Attribute Value Content</b>	Should use the format <prefix> <first name> <second and further given names> <last name> <suffix>

<b>Attribute ID also used in</b>	DocumentEntry
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:author- person:name"   DataType="http://www.w3.org/2001/XMLSchema#string"&gt;   &lt;AttributeValue&gt;Dr Marcus J Welby Jr. MD&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

#### 1.8.4 Author Person (ID)

<b>IHE XDS Definition</b>	4.2.3.1.4.2 as "authorPerson": "Represents the humans and/or machines that authored the document or SubmissionSet within the authorInstitution. The author may be the patient itself. This is a sub-attribute of the author attribute."
<b>ebXML Name</b>	classificationScheme="urn:uuid:a7058bb9-b4e4-4307-ba5b-e3f0ab85e12d"; Slot name="authorPerson"
<b>ebXML Example</b>	<pre>&lt;rim:Slot name="authorPerson"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;11375^Welby^Marcus^J^Jr. MD^Dr^^^&amp;1.2.840.113619.6.197&amp;ISO&lt;/rim:Value&gt;   &lt;/rim:ValueList&gt; &lt;/rim:Slot&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:author-person:id
<b>XACML Data Type</b>	urn:hl7-org:v3#II
<b>XACML Attribute Value Content</b>	Use XCN.9 as root and XCN.1 as extension or (if XCN.1 is an OID) use XCN.1 as root
<b>Attribute ID also used in</b>	DocumentEntry
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:author-person:id"   DataType="urn:hl7-org:v3#II"&gt;   &lt;AttributeValue&gt;</pre>



	<pre> &lt;hl7:InstanceIdentifier extension="11375" root="1.2.840.113619.6.197"/&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt; </pre>
<b>Comment</b>	

### 1.8.5 Author Role

<b>IHE XDS Definition</b>	4.2.3.1.4.3 as "authorRole": "A string that represents the role of the author with respect to the patient at the time the document or SubmissionSet was created. This is a sub-attribute of the author attribute."
<b>ebXML Name</b>	classificationScheme="urn:uuid:a7058bb9-b4e4-4307-ba5b-e3f0ab85e12d"; Slot name="authorRole"
<b>ebXML Example</b>	<pre> &lt;rim:Slot name="authorRole"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;PCP^^^&amp;amp;2.16.840.1.113883.19.9&amp;amp;ISO&lt;/r im:Value&gt;   &lt;/rim:ValueList&gt; &lt;/rim:Slot&gt; </pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:author-role
<b>XACML Data Type</b>	urn:hl7-org:v3#CV
<b>XACML Attribute Value Content</b>	Use CX.4.2 as codeSystem and CX.1 as extension; if it is not coded as a CX data type, a default codeSystem must be defined for the affinity domain
<b>Attribute ID also used in</b>	DocumentEntry
<b>XACML Example</b>	<pre> &lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:author-role"   DataType="urn:hl7-org:v3#CV"&gt;   &lt;AttributeValue&gt;     &lt;hl7:CodedValue code="PCP" codeSystem="2.16.840.1.113883.19.9"/&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt; </pre>

<b>Comment</b>	
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### 1.8.6 Author Speciality

<b>IHE XDS Definition</b>	4.2.3.1.4.4 as "authorSpeciality": "Represents a specific specialty within a healthcare facility under which the human and/or machines authored the document or SubmissionSet. This is a sub-attribute of the author attribute."
<b>ebXML Name</b>	classificationScheme="urn:uuid:a7058bb9-b4e4-4307-ba5b-e3f0ab85e12d"; Slot name="authorSpeciality"
<b>ebXML Example</b>	<pre>&lt;rim:Slot name="authorSpeciality"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;Cardiology^^^&amp;2.16.840.1.113883.19.10&amp;am p;ISO&lt;/rim:Value&gt;   &lt;/rim:ValueList&gt; &lt;/rim:Slot&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:author-speciality
<b>XACML Data Type</b>	urn:hl7-org:v3#CV
<b>XACML Attribute Value Content</b>	Use CX.4.2 as codeSystem and CX.1 as extension; if it is not coded as a CX data type, a default codeSystem must be defined for the affinity domain
<b>Attribute ID also used in</b>	DocumentEntry
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:author-speciality"   DataType="urn:hl7-org:v3#CV"&gt;   &lt;AttributeValue&gt;     &lt;hl7:CodedValue code="Cardiology" codeSystem="2.16.840.1.113883.19.10"/&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.8.7 Availability Status

<b>IHE XDS Definition</b>	4.2.3.3.2 as "SubmissionSet.availabilityStatus": "Represents the status of the SubmissionSet. Since the deprecation of SubmissionSets is not allowed, this value shall always be Approved."
<b>ebXML Name</b>	"status" attribute of "RegistryPackage" element
<b>ebXML Example</b>	<pre>&lt;rim:RegistryPackage     id="urn:uuid:fbeacdb7-5421-4474-9267-985007cd8855"     status="urn:oasis:names:tc:ebxml-     regrep:StatusType:Approved"&gt;     ...</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:availability-status
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#anyURI
<b>XACML Attribute Value Content</b>	"urn:oasis:names:tc:ebxml-regrep:StatusType:Approved" or "urn:oasis:names:tc:ebxml-regrep:StatusType:Deprecated" or any other valid availabilityStatus defined by an extension or by a new profile
<b>Attribute ID also used in</b>	DocumentEntry, Folder
<b>XACML Example</b>	<pre>&lt;Attribute     AttributeId="urn:ihe:iti:xds-b:2007:availability-     status"     DataType="http://www.w3.org/2001/XMLSchema#anyURI"&gt;     &lt;AttributeValue&gt;urn:oasis:names:tc:ebxml-     regrep:StatusType:Approved&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.8.8 Content Type Code

<b>IHE XDS Definition</b>	4.2.3.3.4 as "SubmissionSet.contentTypeCode": "The code specifying the type of clinical activity that resulted in placing these DocumentEntries, Folders, and/or Associations in this SubmissionSet. These values are to be drawn from a vocabulary defined by the creating entity that contributed the SubmissionSet."
<b>ebXML Name</b>	classificationScheme="urn:uuid:aa543740-bdda-424e-8c96-df4873be8500"

<b>ebXML Example</b>	<pre> &lt;rim:Classification   classificationScheme="urn:uuid:aa543740-bdda-424e-8c96- df4873be8500"   classifiedObject="ExampleSubmissionSet"   id="IdExample_056"   objectType="urn:oasis:names:tc:ebxml- regrep:ObjectType:RegistryObject:Classification"   nodeRepresentation="47046-8"&gt;   &lt;rim:Name&gt;     &lt;rim:LocalizedString value="Summary of death"   /&gt;   &lt;/rim:Name&gt;   &lt;rim:Slot name="codingScheme"&gt;     &lt;rim:ValueList&gt;      &lt;rim:Value&gt;2.16.840.1.113883.6.1&lt;/rim:Value&gt;     &lt;/rim:ValueList&gt;   &lt;/rim:Slot&gt; &lt;/rim:Classification&gt; </pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:submission-set:content-type
<b>XACML Data Type</b>	urn:hl7-org:v3#CV
<b>XACML Attribute Value Content</b>	
<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre> &lt;Attribute   AttributeId=" urn:ihe:iti:xds-b:2007:submission-set:content- type"   DataType="urn:hl7-org:v3#CV"&gt;   &lt;AttributeValue&gt;     &lt;hl7:CodedValue code="47046-8" codeSystem="2.16.840.1.113883.6.1"/&gt;   &lt;/AttributeValue&gt; &lt;/Attribute&gt; </pre>
<b>Comment</b>	

### 1.8.9 Home Community ID

<b>IHE XDS</b>	4.2.3.3.6 as "SubmissionSet.homeCommunityId": "A globally unique
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<b>Definition</b>	identifier for a community."
<b>ebXML Name</b>	"home" attribute of RegistryPackage element
<b>ebXML Example</b>	<pre>&lt;rim:RegistryPackage home="urn:oid:2.16.840.1.113883.19.14" ...&gt; ... &lt;/rim:RegistryPackage &gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:home-community-id
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#anyURI
<b>XACML Attribute Value Content</b>	The identifier MUST be an Object Identifier (OID), using the urn format ("urn:oid:" appended with the OID)
<b>Attribute ID also used in</b>	DocumentEntry, SubmissionSet
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:home-community-id"   DataType="http://www.w3.org/2001/XMLSchema#anyURI"&gt;   &lt;AttributeValue&gt;urn:oid:2.16.840.1.113883.19.14   &lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.8.10 Patient ID

<b>IHE XDS Definition</b>	4.2.3.3.8 as "SubmissionSet.patientId": "The patientId represents the primary subject of care of the SubmissionSet."
<b>ebXML Name</b>	ExternalIdentifier with identificationScheme="urn:uuid:6b5aea1a-874d-4603-a4bc-96a0a7b38446"
<b>ebXML Example</b>	<pre>&lt;rim:ExternalIdentifier   identificationScheme="urn:uuid:6b5aea1a-874d-4603-a4bc- 96a0a7b38446"   value="6578946^^^&amp;1.3.6.1.4.1.21367.2005.3.7&amp;ISO"   id="IdExample_057"   objectType="urn:oasis:names:tc:ebxml- regrep:ObjectType:RegistryObject:ExternalIdentifier"   registryObject="SubmissionSet01"&gt;</pre>

	<pre>&lt;rim:Name&gt;   &lt;rim:LocalizedString value="XDSSubmissionSet.patientId"/&gt; &lt;/rim:Name&gt; &lt;/rim:ExternalIdentifier&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:patient-id
<b>XACML Data Type</b>	urn:hl7-org:v3#II
<b>XACML Attribute Value Content</b>	Use CX.4 as root and CX.1 as extension
<b>Attribute ID also used in</b>	Folder, SubmissionSet
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:patient-id"   DataType="urn:hl7-org:v3#II"&gt;   &lt;AttributeValue&gt; &lt;hl7:InstanceIdentifier extension="6578946" root="1.3.6.1.4.1.21367.2005.3.7"/&gt;&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.8.11 Source System ID

<b>IHE XDS Definition</b>	4.2.3.3.9 as "SubmissionSet.sourceId": "The globally unique, immutable, identifier of the entity that contributed the SubmissionSet. When a "broker" is involved in sending SubmissionSets from a collection of client systems, it shall use a different sourceId for submissions from each separate system to allow for tracking."
<b>ebXML Name</b>	ExternalIdentifier with identificationScheme="urn:uuid:554ac39e-e3fe-47fe-b233-965d2a147832"
<b>ebXML Example</b>	<pre>&lt;rim:ExternalIdentifier   identificationScheme="urn:uuid:554ac39e-e3fe-47fe-b233-965d2a147832"   value="1.3.6.1.4.1.21367.2005.3.7"   id="IdExample_058"   objectType="urn:oasis:names:tc:ebxml-</pre>

	<pre> regrep:ObjectType:RegistryObject:ExternalIdentifier"   registryObject="SubmissionSet01"&gt;   &lt;rim:Name&gt;     &lt;rim:LocalizedString value="XDSSubmissionSet.sourceId"/&gt;   &lt;/rim:Name&gt; &lt;/rim:ExternalIdentifier&gt; </pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:source-system-id
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#anyURI
<b>XACML Attribute Value Content</b>	
<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre> &lt;Attribute AttributeId="urn:ihe:iti:xds-b:2007:source-system-id"   DataType="http://www.w3.org/2001/XMLSchema#anyURI"&gt;   &lt;AttributeValue&gt;1.3.6.1.4.1.21367.2005.3.7&lt;/AttributeValue&gt; &lt;/Attribute&gt; </pre>
<b>Comment</b>	

### 1.8.12 Creation Time

<b>IHE XDS Definition</b>	4.2.3.3.10 as "SubmissionSet.creationTime": "Represents the point in time at the creating entity when the Submission Set was submitted. This shall be provided by the submitting system."
<b>ebXML Name</b>	Slot name = "submissionTime"
<b>ebXML Example</b>	<pre> &lt;rim:Slot name="submissionTime"&gt;   &lt;rim:ValueList&gt;     &lt;rim:Value&gt;20041225212010&lt;/rim:Value&gt;   &lt;/rim:ValueList&gt; &lt;/rim:Slot&gt; </pre>
<b>XACML Target Section</b>	Resource

<b>XACML Attribute ID</b>	urn:ihe:iti:xds-b:2007:submission-set:submission-time
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#dateTime
<b>XACML Attribute Value Content</b>	This point in time must be transformed into a valid instance of an XML dateTime (which is based of ISO8601). This may involve adding date or time components, because in XDS the DTM data type allows for partial dates. To transform incomplete submissionTimes into dateTime instances the implementor <b>MUST</b> use the smallest instant covered by the partial date. E.g. "200904" would be transformed to "2009-04-01T00:00:00Z". The XACML dateTime must be expressed as UTC using ,Z' as the timezone indicator. The XDS DTM data type also allows only for UTC as the timezone, therefore no transformation is necessary.
<b>Attribute ID also used in</b>	-
<b>XACML Example</b>	<pre>&lt;Attribute   AttributeId="urn:ihe:iti:xds-b:2007:submission- set:submission-time"   DataType="http://www.w3.org/2001/XMLSchema#dateTime"&gt;   &lt;AttributeValue&gt;2004-12-25T21:20:10Z&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	This includes a provision to deal with partial dates. However, as the submissionTime will very likely be set automatically at transmission time, this is very unlikely to be used.

### 1.8.13 SubmissionSet Unique ID

<b>IHE XDS Definition</b>	4.2.3.3.12 as "SubmissionSet.uniqueId": "The globally unique identifier for the SubmissionSet assigned by the entity that contributed the SubmissionSet."
<b>ebXML Name</b>	ExternalIdentifier with identificationScheme = "urn:uuid:96fdda7c-d067-4183-912e-bf5ee74998a8"
<b>ebXML Example</b>	<pre>&lt;rim:ExternalIdentifier   identificationScheme="urn:uuid:96fdda7c-d067-4183-912e- bf5ee74998a8"   id="IdExample_059"   objectType="urn:oasis:names:tc:ebxml- regrep:ObjectType:RegistryObject:ExternalIdentifier"   value="1.2.3.4.5"   registryObject="SubmissionSet01"&gt; &lt;rim:Name&gt;   &lt;rim:LocalizedString</pre>



	<pre>value="XDSSubmissionSet.uniqueId"/&gt;   &lt;/rim:Name&gt; &lt;/rim:ExternalIdentifier&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML Attribute ID</b>	urn:oasis:names:tc:xacml:1.0:resource:resource-id
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#string
<b>XACML Attribute Value Content</b>	
<b>Attribute ID also used in</b>	DocumentEntry, Folder
<b>XACML Example</b>	<pre>&lt;Attribute AttributeId="urn:oasis:names:tc:xacml:1.0:resource:resource- id"   DataType="http://www.w3.org/2001/XMLSchema#string"&gt;   &lt;AttributeValue&gt;1.2.3.4.5&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	

### 1.8.14 Resource Type

<b>IHE XDS Definition</b>	4.2.3.3 as SubmissionSet
<b>ebXML Name</b>	ExtrinsicObject with id="urn:uuid:fbeacdb7-5421-4474-9267-985007cd8855"
<b>ebXML Example</b>	<pre>&lt;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"&gt;   ... &lt;/ExtrinsicObject&gt;</pre>
<b>XACML Target Section</b>	Resource
<b>XACML</b>	urn:ihe-d:cookbook:2013:resource-type

<b>Attribute ID</b>	
<b>XACML Data Type</b>	http://www.w3.org/2001/XMLSchema#anyURI
<b>XACML Attribute Value Content</b>	for folders fixed to "urn:ihe:iti:xds-b:2007:submission-set"
<b>Attribute ID also used in</b>	DocumentEntry, SubmissionSet
<b>XACML Example</b>	<pre>&lt;Attribute AttributeId="urn:ihe-d:cookbook:2013:resource-type"            DataType="http://www.w3.org/2001/XMLSchema#anyURI"&gt;   &lt;AttributeValue&gt;urn:ihe:iti:xds-b:2007:submission-set&lt;/AttributeValue&gt; &lt;/Attribute&gt;</pre>
<b>Comment</b>	<p>The resource type attribute allows using the same AttributeID for attributes used multiple types (e.g. Author Person ID is used in SubmissionSet and in DocumentEntry). This allows for policy writers to create policies that are applicable to multiple types of resources (e.g. SubmissionSets and DocumentEntries) while retaining the ability to distinguish between them when necessary.</p> <p>TODO: Check if the RegistryPackage ID and the objectType for submissionSets is correct</p>

## Appendix B – EFAv2.0 Integration

This normative appendix defines how the EPPC integration profile is to be used in conjunction with EFAv2.0.

*This appendix will be added as a supplement to the EFAv2.0 specification.*

The implementing of the EPPC Integration Profile for EFAv2.0 compliant products requires the following actor groupings:

**Table 2: EFAv2.0 and EPPC Actor Grouping**

<b>EFAv2.0 Actor</b>	<b>Grouped EPPC/SeR Actor</b>	<b>Purpose</b>
Teilnehmersystem	Privacy Consent Creator	EFAv2.0 consents shall be given at the organization that is responsible for initiating and managing an EFA instance.
Ressource Manager	Privacy Consent Mediator	EFAv2.0 Ressource Manager accepts requests for ECR initialization and consent update.
Policy Provider	Privacy Policy Store	EFAv2.0 Policy Provider provides a unique interface to XACML coded privacy policies within an EFAv2.0 Peer.
Document Registry	Authorization Decision Manager	EFAv2.0 flows for decision and enforcement of EPPC Patient Privacy Policies shall comply to the IHE Secure Retrieve Profile.
Document Repository	Authorization Decision Verifier	EFAv2.0 flows for decision and enforcement of EPPC Patient Privacy Policies shall comply to the IHE Secure Retrieve Profile.

EPPC Signed Patient Privacy Consent Document Option shall be implemented.

EFAv2.0 consentInfo class shall be instantiated through the Enhanced Patient Privacy Consent Document Content Profile (see EPPC Profile Volume 2). The logical elements of the EFAv2.0 consentInfo class are bound to elements of the Enhanced Patient Privacy Consent Document Content Profile as defined in Table 4.

**Table 3: EFAv2.0 consentInfo Mapping onto EPPC Patient Privacy Documents Elements**

EFAv2.0 Logical consentInfo Element	EPPC Patient Privacy Consent Document Content Profile (/ClinicalDocument/...)
Patient	recordTarget/patientRole
Patient.patientId	recordTarget/patientRole/id and component/structuredBody/component/section/entry/observation/value using EPPC XACML Bindings for [RegistryObject].patientId
LegalAuthenticator	legalAuthenticator
HealthCareProvider	component/structuredBody/component/section/entry/observation/value using EPPC XACML Bindings for Subject
ProgramSupervisor (Fallaktenmanager)	component/structuredBody/component/section/entry/observation/value using EPPC XACML Bindings for Subject
Custodian	custodian
Purpose	component/structuredBody/component/section/entry/observation/value using EPPC XACML Binding for Folder.codeList
Erstellungsdatum	effectiveTime
Verfallsdatum	component/structuredBody/component/section/entry/observation/value XACML-Binding using EnvironmentMatch of dateTime and current- dateTime

## Appendix C – Glossary

**Consent** - acknowledgement of a privacy policy, also known as an information access policy [IHE ITI TF-1]. In this context the privacy policy may include constraints and obligations, that affect the (1) scope of collecting, using, and processing defined personal health information, the (2) healthcare providers and organizations authorized to collect, use and process defined personal health information and the (3) validity of the consent in terms of time and space.

**Health Information Exchange** - Electronic health information exchange (HIE) allows doctors, nurses, pharmacists, other health care providers and patients to appropriately access and securely share a patient’s vital medical information electronically [healthIT.gov]

**Identifiable person** - one who can be identified, directly or indirectly, in particular by reference to an identification number or to one or more factors specific to his physical, physiological, mental, economic, cultural or social identity [Directive 95/46/EC of the European Parliament and of the Council of 24 October 1995 on the protection of individuals with regard to the processing of personal data and on the free movement of such data]

**Identification** - identification is the process of using claimed or observed attributes of an entity to single out the entity among other entities in a set of identities. The identification of an entity within a certain context enables another entity to distinguish between the entities it interacts with.

**Patient** - the human subject of health related data. In this context “Patient” is not to imply only those subjects under current treatment, this is sometimes referred to as “consumer” [IHE ITI TF-1]

**Personal Health Information** - Information about an identifiable person which relates to the physical or mental health of the individual, or to provision of health services to the individual, and which may include: a) information about the registration of the individual for the provision of health services; b) information about payments or eligibility for healthcare with respect to the individual; c) a number, symbol or particular assigned to an individual to uniquely identify the individual for health purposes; d) any information about the individual collected in the course of the provision of health services to the individual; e) information derived from the testing or examination of a body part or bodily substance; f) identification of a person (e.g., a health professional) as provider of healthcare to the individual. [ISO 27799]

**Primary use of personal data** - the use of personal data for delivering healthcare.

**Secondary use of personal data** - secondary use of personal data is any use different from primary use