

eCR Projectathon 2017

Actors, Transactions, Options

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1 Overview

The eCR Projectathon covers 2 actors and 4 transactions:

Actor	Transaction	Optionality	Description
eCR Client	Authenticate User	R	Obtain a XUA Assertion for the user
	Initialize eCR	R	Request the setup of a new eCR
	Browse eCR	R	Fetch the table of content of an eCR
	Retrieve eCR Document	R	Fetch a set of documents from an eCR
	Provide eCR Document	R	Provide and register a document
eCR Provider	Initialize eCR	R	Setup a new eCR and its permissions
	Browse eCR	R	Provide the table of contents of an eCR
	Retrieve eCR Document	R	Provide a requested set of documents
	Provide eCR Document	R	Accepts and register a document

Vendors may apply for a conformance statement to either of these actors.

The following options may additionally be implemented

Actor	Option	Reference
eCR Client	Digital Consent	4.1
eCR Provider	Digital Consent	4.1

2 Actors

2.1 eCR Client

eCR client actor is a grouping of the actors IHE Document Consumer, IHE Document Source, and IHE X-Service User.

2.2 eCR Provider

eCR provider is a grouping of the actors IHE Document Registry, IHE Document Repository, and IHE X-Service Provider. eCR Provider actor shall be deployed as a secure node.

3 eCR Transactions

3.1 Authenticate User

The EFA-Client actor obtains an X-User Assertion. In all subsequent test cases, the EFA-Client actor provides this X-User Assertion to the EFA-Provider actor.

The EFA Identity Assertion is a X-User Assertion that shall follow the constraints as defined at

http://wiki.hl7.de/index.php?title=cdaefa:EFA_Identity_Assertion_SAML2_Binding.

However, for EFA-Projectathon testing vendors shall rely on the SAML-Assertion semantics used with Gazelle picketlink-sts.

3.2 Initialize eCR

This eCR transaction is a constrained implementation of IHE ITI-41. The constraints to be implemented are defined at

http://wiki.hl7.de/index.php?title=cdaefa:EFA_XDS_ResourceManager#EFA_XDS.2FXDR_Binding:_createECR

Each request shall be piggybacked with an ITI-40 transaction that holds the X-User Assertion obtained in step 1 “Authenticate User”. EFA Provider actors shall be able to validate the provided assertion.

The eCR Provider actor shall write an audit trail entry according. eCR defined extensions to IHE ITI-20 and IHE ITI-41 audit trail definitions are specified at

http://wiki.hl7.de/index.php?title=cdaefa:EFA_Audit_Trail_Binding.

3.3 Provide eCR Document

This eCR transaction is a constrained implementation of IHE ITI-41. The constraints to be implemented are defined at

http://wiki.hl7.de/index.php?title=cdaefa:EFA_XDS_DocumentRepository#EFA_XDS_Binding:_provideData.

Each request shall be piggybacked with an ITI-40 transaction that holds the X-User Assertion obtained in step 1 “Authenticate User”. EFA Provider actors shall be able to validate the provided assertion and to match the contained attributes with the access control policy of the EFA instance that is to be accessed through the request.

The eCR Provider actor shall write an audit trail entry according. eCR defined extensions to IHE ITI-20 and IHE ITI-41 audit trail definitions are specified at

http://wiki.hl7.de/index.php?title=cdaefa:EFA_Audit_Trail_Binding.

3.4 Browse eCR

This eCR transaction is a sequence of IHE ITI-18 queries:

- Find Folders and
- GetFolderAndContents.

The constraints to be implemented are defined at

http://wiki.hl7.de/index.php?title=cdaefa:EFA_XDS_ResourceManager#EFA_XDS_Binding:_listPartitions

and

http://wiki.hl7.de/index.php?title=cdaefa:EFA_XDS_DocumentRegistry#EFA_XDS_Binding:_listPartitionsContent.

Each request shall be piggybacked with an ITI-40 transaction that holds the X-User Assertion obtained in step 1 “Authenticate User”. EFA Provider actors shall be able to validate the provided

assertion and to match the contained attributes with the access control policy of the EFA instance that is to be accessed through the request.

The eCR Provider actor shall write an audit trail entry according. eCR defined extensions to IHE ITI-20 and IHE ITI-18 audit trail definitions are specified at

http://wiki.hl7.de/index.php?title=cdaefa:EFA_Audit_Trail_Binding.

3.5 Retrieve eCR Document

This eCR transaction is a constrained implementation of IHE ITI-43. The constraints to be implemented are defined at

http://wiki.hl7.de/index.php?title=cdaefa:EFA_XDS_DocumentRepository#EFA_XDS_Binding:retrieval.

Each request shall be piggybacked with an ITI-40 transaction that holds the X-User Assertion obtained in step 1 “Authenticate User”. EFA Provider actors shall be able to validate the provided assertion and to match the contained attributes with the access control policy of the EFA instance that is to be accessed through the request.

The eCR Provider actor shall write an audit trail entry according. eCR defined extensions to IHE ITI-20 and IHE ITI-43 audit trail definitions are specified at

http://wiki.hl7.de/index.php?title=cdaefa:EFA_Audit_Trail_Binding.

4 Options

4.1 Digital Consent

Various German stakeholders jointly developed a specification for a digital consent document that may be used for transmitting consent information for authorizing named parties to use an electronic health record. This specification is an extension to the German “IHE Cookbook”. The CDA implementation guideline can be found at: http://wiki.hl7.de/images/EPPC-G_Draft_for_Comment_v04.pdf

For the eCR 2017 projectathon, this specification will be updated to be compliant to IHE APPC integration profile.