

**KEREVAL**

4 rue Hélène Boucher

Z.A Bellevue

35 235 THORIGNE FOUILLARD - FRANCE

Tél. : +33 (0) 223 203 664

RCS : B 442 789 210

APE : 722 C

***KEREVAL HEALTHLAB - Project IHE EUROPE*****User Guide*****XDStarClient – V2.x***

Version : 1.06

Date: 04/09/2014

Author: Thomas DOLOUE

Function: Quality Assistant

Reference:

KER3-MAN-HEALTHLAB-XDSTARCLIENT\_USER-1.06

Status: approved



## ■ KEREVAL Approval

Name	Function	Date	Visa
Eric POISEAU	Lab Manager	04/09/2014	OK
Anne-Gaëlle BERGE	Quality Manager	29/04/2016	OK

## ■ Diffusion

Internal	Recipient	Date	Exemplary
KEREVAL	HealthLab	04/09/2014	Electronic version

External	Recipient	Date	Exemplary
XDStarClient users		04/09/2014	Electronic version

## ■ Document history

Version	Date	Author	Modifications
V0.01	02/09/2014	Thomas DOLOUE	Creation
V1.01	04/09/2014	Thomas DOLOUE	For review
V1.02	04/09/2014	Eric POISEAU	Approve
V1.03	20/01/2015	Abderrazek Boufahja	Modification
V1.05	06/04/2016	Anne-Gaëlle BERGE	QA check of updated version

## ■ Table of content

<b>1</b>	<b>INTRODUCTION .....</b>	<b>5</b>
1.1	Introduction to XDStarClient .....	5
1.2	XDStarClient validation services.....	6
1.3	XDStarClient full presentation.....	6
<b>2</b>	<b>ITI-18 : REGISTRY STORED QUERY .....</b>	<b>7</b>
2.1	Tool description .....	7
2.2	System Configuration .....	7
<b>3</b>	<b>ITI-41 : PROVIDE AND REGISTER SET-B .....</b>	<b>9</b>
3.1	Simulator Description .....	9
3.2	System configuration.....	9
3.3	Metadatas edition and configuration .....	10
3.4	List of Provide and Register Set-b Messages .....	14
<b>4</b>	<b>ITI-43 [RETRIEVE DOCUMENT SET].....</b>	<b>15</b>
<b>5</b>	<b>ITI-62 [DELETE DOCUMENT SET].....</b>	<b>17</b>
<b>6</b>	<b>ITI-38 - CROSS GATEWAY QUERY .....</b>	<b>18</b>
6.1	Tool description .....	18
6.1.1	Login using the cas login. ....	18
6.1.2	Add the configuration of your system .....	18
6.2	3. Test your system with XDStarClient .....	19
<b>7</b>	<b>ITI-41 : PROVIDE AND REGISTER SET-B .....</b>	<b>21</b>
7.1	Simulator Description .....	21
7.2	System configuration.....	21
7.3	Metadatas edition and configuration .....	22
7.4	List of Provide and Register Set-b Messages .....	26
<b>8</b>	<b>ITI-62 [DELETE DOCUMENT SET].....</b>	<b>27</b>
<b>9</b>	<b>ITI-18 : REGISTRY STORED QUERY .....</b>	<b>28</b>
9.1	Tool description .....	28
9.2	System Configuration .....	28
<b>10</b>	<b>ITI-41 : PROVIDE AND REGISTER SET-B .....</b>	<b>30</b>
10.1	Simulator Description .....	30
10.2	System configuration.....	30
10.3	Metadatas edition and configuration .....	31
10.4	List of Provide and Register Set-b Messages .....	35
<b>11</b>	<b>ITI-43 [RETRIEVE DOCUMENT SET].....</b>	<b>36</b>
<b>12</b>	<b>ITI-54 DOCUMENT METADATA PUBLISH .....</b>	<b>38</b>
<b>13</b>	<b>RAD-68 [PROVIDE AND REGISTER IMAGING DOCUMENT SET - MTOM/XOP].....</b>	<b>39</b>

14	RAD-69 [RETRIEVE IMAGING DOCUMENT SET] .....	40
15	RAD-55 [WADO RETRIEVE] .....	42
16	ITI-62 - DELETE DOCUMENT SET RESPONDER.....	43
17	ITI-53 - DOCUMENT METADA RECIPIENT ENDPOINT.....	44
18	XDS METADATAS VALIDATION .....	45
19	AUDITMESSAGE VALIDATION .....	46
20	WADO VALIDATOR.....	49
20.1	Gazelle WADO Validator .....	49
20.2	Web Service.....	49
21	DSUB VALIDATION.....	50

## 1 Introduction

You can access to XDStarClient from this link : <https://gazelle.ihe.net/XDStarClient/>

### 1.1 Introduction to XDStarClient

XDStarClient is a tool developed by IHE-europe / gazelle team to simulate initiators on XD\* profile. Some of implemented actors are already implemented on XDRSRC Simulator and XCAInitiatingGateway simulator. The aim of this simulator is to merge all transactions of XD\* to the same tools, to simplify the work of tester and to improve the quality of service.

Merged transaction from XDRSRC Simulator and XCAInitGateway Simulator are :

- for epSOS domain :
  - DispensationService:initialize()
  - DispensationService:Discard()
  - ConsentService:put()
  - ConsentService:Discard()
  - epSOS-1 [OrderService / PatientService]
  - Identification Service
  - ITI-41 [XDS.b Provide and Register Document Set - epSOS affinity domain]
  - epSOS-2 transactions
- for IHE, ITI domain :
  - XDS.b
    - ITI-18 : Registry Stored Query
    - ITI-41 : Provide and Register Document Set.b
    - ITI-43 : Retrieve Document Set
    - ITI-62 : Delete Document Set
  - XCA
    - ITI-38 : Cross Gateway Query
    - ITI-39 : Cross Gateway Retrieve
  - XDR
    - ITI-41 : Provide and Register Document Set.b
    - ITI-62 : Delete Document Set
  - XDW (XDS.b)
    - ITI-18 : Registry Stored Query
    - ITI-41 : Provide and Register Document Set.b
    - ITI-43 : Retrieve Document Set
  - XCF

- ITI-63 [Cross Gateway Fetch]
- MPQ
  - ITI-51 [Multi-Patient Stored Query]
- XCPD
  - ITI-55 [Cross Gateway Patient Discovery]
  - ITI-56 [Patient Location Query]
- IHE, PHARM domain :
  - PHARM-1
- IHE, RAD domain :
  - RAD-68 : Provide and Register Imaging Document Set - MTOM/XOP
  - RAD-69 : Retrieve Imaging Document Set
  - RAD-75 : Cross Gateway Retrieve Imaging Document Set
  - RAD-55 : WADO Retrieve

XDStarClient simulate also some responders :

- ITI-62 - Delete Document Set
- ITI-53 - Document Metada Recipient Endpoint

## 1.2 XDStarClient validation services

XDStarClient offers three validation services :

- XDS Metadatas validation
- AuditMessage Validation
- WADO validation
- DSUB validation

We recommand to vendors of epSOS and IHE domain to use XDStar as a client to simulate XDRSRCSimulator, and XCAInitGatewaySimulator. These two old simulators are actually deprecated, all new corrections will be done on XDStarClient.

## 1.3 XDStarClient full presentation

Here you will find a complete power point presentation of XDStarClient:  
<http://gazelle.ihe.net/files/XDStarClient.pdf>

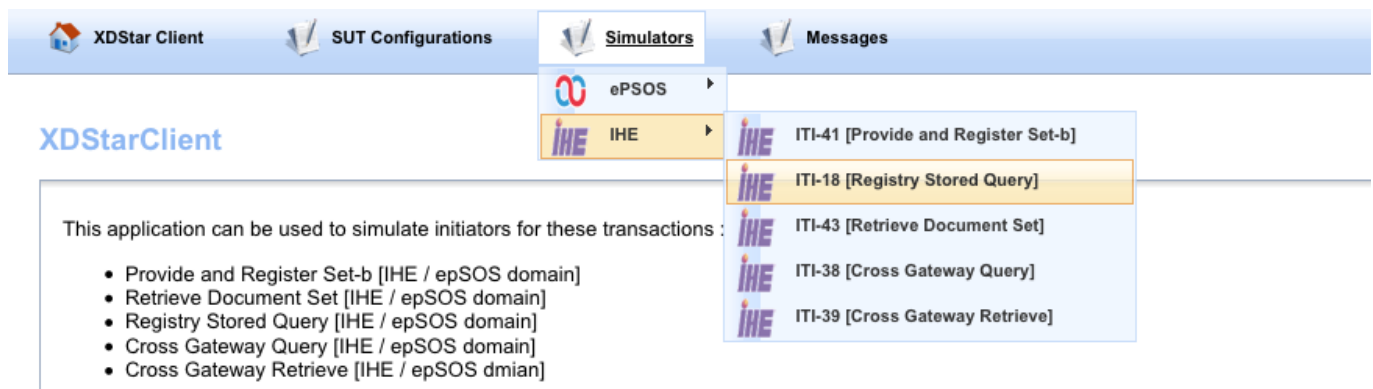
## 2 ITI-18 : Registry Stored Query

### 2.1 Tool description

The aim of this tool is to simulate an XDS consumer on the transaction Registry Stored Query (ITI-18), on IHE domain.

This module allow vendors to query registries using XDS metadata.

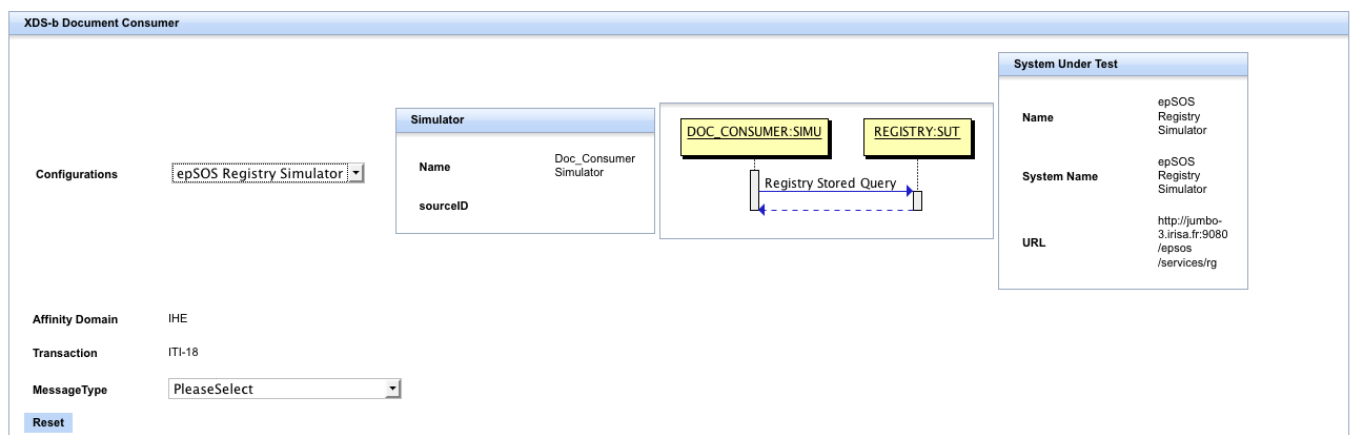
To access to this simulator, you have to check the menu Simulators --> IHE --> ITI-18 [Registry Stored Query]



### 2.2 System Configuration

Configurations used on this transaction are registries configurations. To use this tool, you have to select a registry configuration from the selector component :

#### Registry Stored Query









If your system's configuration does not appear on the list of configuration to select, please go from the menu to SUT-Configurations --> Registries-configurations. Then you will see all available configurations for testing. To add your configuration you have to click on the button "Create Registry Configuration". If you don't see this button, that's means that you are not logged in. Only logged users are allowed to add a system configuration to the XDStarClient tool.

To log in this tools, you have to use the link "cas login" on the menu. The login and password are the same one of gazelle test management [EU-CAT](#). If you don't have a login and a password on EU-CAT, please create an account.

After login, you will be able to add a registry configuration, on the page:

#### Registry Configuration

Registry Configurations					
Create Registry Configuration					
Name	System Name	URL	Home CommunityId	Repository UniqueId	Action
Nist Registry	Nist Registry	http://hit-testing.nist.gov:12080/tf6/services/xdsregistryb			 
ser	ser	http://ser-healthcare1.ihe-europe.net:8081/dx4-ihe-xds/ws/iti18Service			 
epSOS Registry Simulator	epSOS Registry Simulator	http://jumbo-3.irisa.fr:9080/epsos/services/rg		2.16.17.710.812.1000.990.1	 
rogan	rogan	https://rogan10.8443/XDSRegistry/XDSRegistryService.svc			 

When clicking on the button "Create Registry Configuration", you will be able to add your configuration to the tool :

#### Registry Configuration

Configuration Edit	
Name	<input type="text"/>
System Name	<input type="text"/>
URL	<input type="text"/>
Home CommunityId	<input type="text"/>
Repository UniqueId	<input type="text"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	



### 3 ITI-41 : Provide and Register Set-b

#### 3.1 Simulator Description

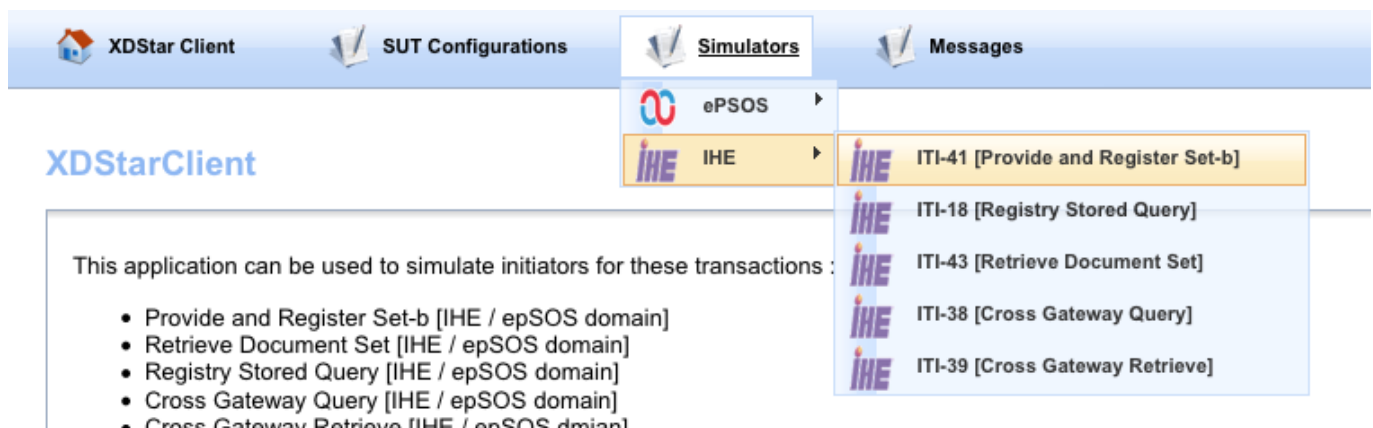
You can access To the simulator:

[http://gazelle.ihe.net/XDStarClient/provide\\_register/xdrsrcSimulator.seam?affinityDomainKeyword=IHE\\_XDS-b&transactionKeyword=ITI-41](http://gazelle.ihe.net/XDStarClient/provide_register/xdrsrcSimulator.seam?affinityDomainKeyword=IHE_XDS-b&transactionKeyword=ITI-41)

The aim of this module is to simulate a document source actor on the transaction ITI-41, IHE domain.

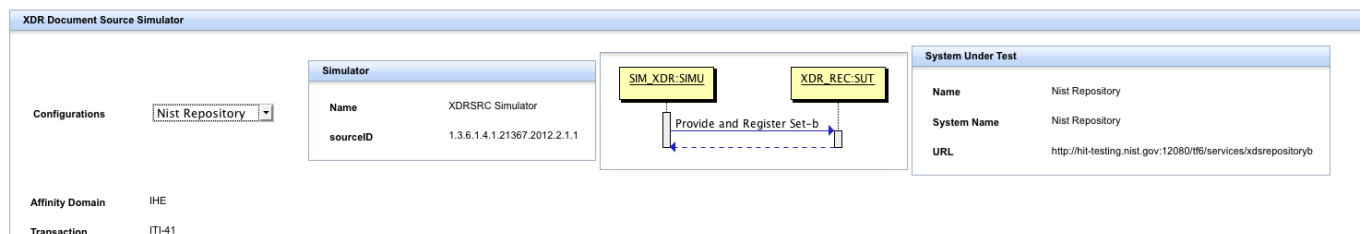
This module allow vendors to submit documents, folders and associations between documents, folders and submissionSet.

To access to this simulator, you have to check the menu Simulator --> IHE --> ITI-41



#### 3.2 System configuration

##### Provide and Register Set-b



If you your system's configuration does not appear on the list of configuration to select, please go from the menu to SUT-Configurations --> Repositories-configurations. Then you will see all available configuration for testing. To add your configuration you have to click on the button "Create Registry Configuration". If you don't see this button, that's means that you are not logged in. Only logged users are allowed to add a system configuration to the XDStarClient tool.

To log in this tools, you have to use the link "cas login" on the menu. The login and password are the same one of gazelle test management [EU-CAT](#). If you don't have a login and a password on EU-CAT, please create an account.

After login, you will be able to add a repository configuration, on the page <http://gazelle.ihe.net/XDStarClient/configuration/repository/repConfigurations.seam> :

## Repository Configuration

Repository Configurations				
Create Repository Configuration				
Name	System Name	URL	Repository UniqueId	Action
Epsos Secured	Jumbo Repository	https://131.254.209.14:9085/epsos/services/xdsrepositoryb		
Epsos Unsecured	Jumbo Repository	http://131.254.209.14:9080/epsos/services/xdsrepositoryb		
Nist Repository	Nist Repository	http://hit-testing.nist.gov:12080/tf6/services/xdsrepositoryb	1.19.6.24.109.42.1.5	

Water clicking on the button "Create Repository Configuration", you will be able to add your configuration to the tool :

## Repository Configuration

**Configuration Edit**

Name   
System Name   
URL   
Repository UniqueId

## 3.3 Metadatas edition and configuration

### ■ Initialization of the request

When going from the menu to simulators --> IHE --> ITI-41, and after selecting your configuration, a GUI for editing metadata and for configuring your submission request appear :

SubmissionSet :: XDS Submission Set

**Submission Set**  
SubmissionSet title   
Patient Id \*   

Opt.	Metadata Name	Value(s)
R	XDSSubmissionSet.sourceId	<input type="text" value="1.3.6.1.4.1.21367.2012.2.1.1"/>
R	XDSSubmissionSet.uniqueId	<input type="text" value="1.3.6.1.4.1.12559.11.1.2.2.1.1.2.25"/>
R	XDSSubmissionSet.contentTypeCode	<input type="text" value="please select .."/>

This GUI contains two sides : a tree to represent folders and documents, and a side to represent metadata for each component on the submissionSet.



The patient Id will be used for all submitted documents, folders and for the submissionSet. The sourceId is by default the one of the XDStarClient, and the uniqueId is automatically generated from the XDStarClient.

If a metadata is present by default on the table of metadatas, that's mean that this metadata is required. For example, for submissionset, the XDSSubmissionSet.contentTypeCode is required. The value that

you can select for this metadata are the displayName of codes that will be used for bern CAT. These codes can be token from <http://hit-testing.nist.gov:12080/xdsref/codes/codes.xml>, or from the SVS simulator as REST request. OID that I have defined for each code are :

<a href="#">1.3.6.1.4.1.12559.11.4.3.1</a>	contentTypeCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.2</a>	classCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.3</a>	confidentialityCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.4</a>	formatCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.5</a>	healthcareFacilityTypeCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.6</a>	practiceSettingCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.7</a>	eventCodeList
<a href="#">1.3.6.1.4.1.12559.11.4.3.8</a>	typeCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.9</a>	contentTypeCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.10</a>	folderCodeList
<a href="#">1.3.6.1.4.1.12559.11.4.3.11</a>	associationDocumentation

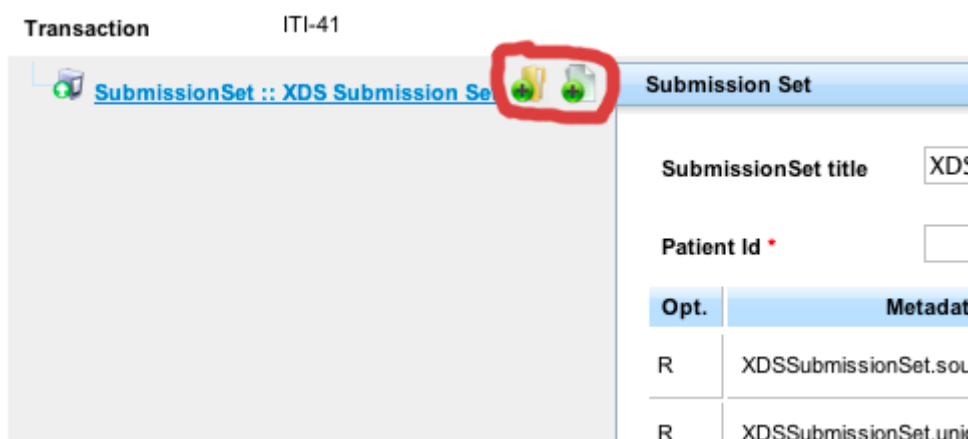
Additional metadata can be added to the submissionSet, by clicking on the button "add optional metadata on the bottom of the table of metadata. A list of Optional metadata will appear, and you can then select the one you want. Additional metadata can be deleted from the table after being added :

Opt.	Metadata Name	Value(s)
R	XDSSubmissionSet.sourceId	<input type="text" value="1.3.6.1.4.1.21367.2012.2.1.1"/>
R	XDSSubmissionSet.uniqueId	<input type="text" value="1.3.6.1.4.1.12559.11.1.2.2.1.1.2.25"/>
O	intendedRecipient 	
R	XDSSubmissionSet.contentTypeCode	<input type="text" value="please select .."/>

**Add OptionalMetadata**

- Attach XDSFolder to submissionSet

To Attach an XDSFolder to an XDSSubmissionSet, you have to click on the icon "add xdsfolder to the submissionSet", on the tree of list attached documents and folder :



When clicking on add folder, a new XDSFolder appear on the tree. On the right side, we can see list of required metadata related to the XDSFolder :

Opt.	Metadata Name	Value(s)
R	XDSFolder.uniquelid	1.3.6.1.4.1.12559.11.1.2.2.1.1.1.26
R	XDSFolder.codeList	please select ..

For each XDSFolder, we can attach an XDSDocument by clicking on the icon "add XDSDocument to the folder.

### ■ Attach XDS Document Entry

To attach an XDSDocumentEntry to an XDSFolder or to the submissionSet, you have to click on the icon . You can see then that an entry on the tree is added, containing a link to the XDSDocument entry. On the left side, we see an upload component, to upload your document to submit :

After uploading your file, you will see that a list of metadata has been rendered. This list contains the XDS metadata required. To add optional metadata, you have to click on the button "Add optional Metadata", and then select your metadata to add, and finally add your data on the table of metadata :

Opt.	Metadata Name	Value(s)
R	XSDSDocumentEntry.uniqueId	1.3.6.1.4.1.12559.11.1.2.2.1.1.1.35
R	languageCode	
R	XSDSDocumentEntry.author	
R	XSDSDocumentEntry.eventCodeList	
R	hash	
R	legalAuthenticator	
R	repositoryUniqueId	
R	XSDSDocumentEntry.formatCode	
R	XSDSDocumentEntry.healthcareProvider	
R	XSDSDocumentEntry.practice	
R	XSDSDocumentEntry.typeCode	please select ..

Add OptionalMetadata

After creating our submissionSet, with folders and documents, we can then send the request using the button "execute".

The request sent is MTOM/XOP request, to the specified configuration's URL.

The result of the communication is shown on a table on the bottom of the page :

Résumé de l'exécution									
Id	TimeStamp	Transaction	AffinityDomain	MessageType	ResponseCode	Responder	Request	Response	Action
8	lundi 7 mai 2012 17:16:50	ITI-41	IHE_XDR		200	Nist Repository	ProvideAndRegisterDocumentSetRequest	RegistryResponse	

from the id column, you can access to a permanent link to the message (the request and the response). Action buttons are : view and validate.

The view button shows the two messages : request and response. The second button is validate messages, it lets you to validate the request and the response to a schema and to a model driven validation. The validation of metadata is done only for request ITI-41 :

Validation of metadatas

Request
Response

### External Validation Report

General Information

Validation Date2012, 05 07 - 05:24:45  
Validation ServiceGazelle XDStMetadata Validation ()  
Validation Test Status**PASSED**

XSD Validation detailed Results

The document you have validated is supposed to be an XML document. The validator has checked if it is well-formed and has validated it against one ore several XSD schemas, results of those validations are gathered in this part.  
  
The XML document is well-formed

Validation details

Warnings

Test

Location

Description

constraintAuthorSubmissionSet\_required\_ifKnown

/SubmitObjectsRequest/RegistryObjectList

WARNING : This condition is not verified : The author is required on SubmissionSet if known (IHE\_ITI\_TF\_Rev8-0\_Vol3\_FT\_2011-08-19.pdf Table 4.1-6)

### 3.4 List of Provide and Register Set-b Messages

We can get all messages sent by this tool from the menu : Messages --> Provide and Register Set-b Messages :

#### Provide and Register Set-b Messages

Id	TimeStamp	Transaction	AffinityDomain	MessageType	ResponseCode	Responder	Request	Response	Action
8	lundi 7 mai 2012 17:16:50	ITI-41	IHE_XDR		200	Nist Repository	ProvideAndRegisterDocumentSetRequest	RegistryResponse	
5	lundi 7 mai 2012 11:07:35	ITI-41	IHE_XDR		200	Nist Repository	ProvideAndRegisterDocumentSetRequest	RegistryResponse	
4	lundi 7 mai 2012 10:46:13	ConsentService:put()	epSOS_XDR	ConsentService:put()	200	Epsos Unsecured	ProvideAndRegisterDocumentSetRequest	RegistryResponse	
3	lundi 7 mai 2012 10:44:58	DispensationService:initialize()	epSOS_XDR	DispensationService:initialize()	200	Epsos Unsecured	ProvideAndRegisterDocumentSetRequest	RegistryResponse	

## 4 ITI-43 [Retrieve Document Set]

This tool provides the possibility to create a valid request according to the transaction ITI-43. The request generated allow to retrieve a document (or a list of documents) from a repository or a document recipient.

To use this tool you have to :

- Select your responder configuration or add a new one on the page [configurations](#).
- Fulfill metadata of the request, for each document you are looking for.
- Click on the button 'execute' to retrieve document(s).

### Retrieve Document Set

**Retrieve Document Set**

This tool provides the possibility to create a valid request according to the transaction ITI-43. The request generated allow to retrieve a document (or a list of documents) from a repository or a document recipient. To use this tool you have to :

- Select your responder configuration or add a new one on the page [Configurations](#).
- Fulfill metadata of the request, for each document you are looking for.
- Click on the button 'execute' to retrieve document(s).

Configurations

AM\_IHE\_cons\_for\_test

+

Simulator

Name

Doc\_Consumer Simulator

DOC\_CONSUMER-SIMU

REPOSITORY-SUT

Retrieve Document Set

System Under Test

Name

AM\_IHE\_cons\_for\_test

System Name

AM\_IHE\_cons\_for\_test

URL

http://localhost:8480/xdstool2/sim/1.3.6.1.4.1.21367.2011.2.10.6/rep/ret

Affinity Domain

KSA [XDS.B]

Transaction

ITI-43

MessageType

Retrieve Document Set

RequestParameters

Retrieve Document Set Request : +

Document request 1 x

repositoryUniqueId\*

1.3.6.1.4.1.21367.2011.2.10.6

documentUniqueId\*

1.42.20140616133828.2

homeCommunityId

Use XUA ?

☐

Preview

Execute

Reset

The result of the request soap sent is viewed on the table after you click on the button execute, on the panel execution summary.

Execution Summary									
Id	TimeStamp	Transaction	AffinityDomain	MessageType	ResponseCode	Responder	Request	Response	Action
5211	Monday, June 16, 2014 1:40:45 PM	ITI-43	KSA [XDS.B]	RetrieveDocumentSet	200	AM_IHE_cons_for_test	RetrieveDocumentSetRequest	RetrieveDocumentSetResponse	

To view the content of the messages, you have to click on view image from the table. A popup will be displayed with the content of the messages sent and received.

ITI-43

Sent MessageResponse Message

```
<S:Envelope xmlns:S="http://www.w3.org/2003/05/soap-envelope">
  <S:Header>
    <wsa:Action xmlns:wsa="http://www.w3.org/2005/08/addressing"
      xmlns:s="http://www.w3.org/2003/05/soap-envelope"
      s:mustUnderstand="1">urn:iti:2007:RetrieveDocumentSetResponse</wsa:Action>
    <wsa:RelatesTo xmlns:wsa="http://www.w3.org/2005/08/addressing">urn:uuid:01eca492-bcac-496f-805c-ecca82c5fc30</wsa:RelatesTo>
  </S:Header>
  <S:Body>
    <xdsb:RetrieveDocumentSetResponse xmlns:xdsb="urn:ihe:iti:xds-b:2007">
      <rs:RegistryResponse xmlns:rs="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0"
        status="urn:oasis:names:tc:ebxml-regrep:ResponseStatusType:Success"/>
      <xdsb:DocumentResponse>
        <xdsb:RepositoryUniqueId>1.3.6.1.4.1.21367.2011.2.10.6</xdsb:RepositoryUniqueId>
        <xdsb:DocumentUniqueId>1.42.20140616133828.2</xdsb:DocumentUniqueId>
        <xdsb:mimeType>text/xml</xdsb:mimeType>
        <xdsb:Document>
          <xop:Include xmlns:xop="http://www.w3.org/2004/08/xop/include"
            href="cid:doc1@ihexds.nist.gov"/>
        </xdsb:Document>
      </xdsb:DocumentResponse>
    </xdsb:RetrieveDocumentSetResponse>
  </S:Body>
</S:Envelope>
```

Attachments :

Id ▾	Content-ID	Content-Type	Content-Transfer-Encoding
<a href="#">166</a>	<doc1@ihexds.nist.gov>	text/xml	binary

You can download the file received from the table of the received attachments.



5 ITI-62 [Delete Document Set]

This tool allows to simulate the transaction ITI-62. This transaction allows to delete document(s) from a repository. To use this tool you have to :

- Select your repository configuration or add a new one on the page [Configurations](#).
- fulfil the request parameters, which are a list of ObjectRef ID.
- execute the request using the button 'execute'. You can preview your request SOAP by using the button 'preview'.

Delete Document Set

This tool allows to simulate the transaction ITI-62.  
This transaction allows to delete document(s) from a repository.  
To use this tool you have to

- Select your repository configuration or add a new one on the page [Configurations](#).
- fulfil the request parameters, which are a list of ObjectRef ID.
- execute the request using the button 'execute'. You can preview your request SOAP by using the button 'preview'.

Configurations

Nist registry

Simulator

Name

Init Gateway / Doc Administrator

DOC\_ADMIN SIMU

DOC\_REC/DOC\_REG-SUT

Delete Document Set (ITI-62)

System Under Test

Name

Nist registry

System Name

Nist registry

URL

http://hl-testing.nist.gov:12080/#/services/xdsregistryb

Affinity Domain

KSA [XDS.B]

Transaction

ITI-62

RequestParameters

Add ObjectRef to delete

List of object references to delete :

urn:uuid:d8af42b-6bb2-49d5-b5fa-a45d635103c0

Use XUA ?

☐

Preview

Execute

Reset

After clicking on execute button, a table will be displayed, containing the result of the execution.

Execution Summary									
Id	TimeStamp	Transaction	AffinityDomain	MessageType	ResponseCode	Responder	Request	Response	Action
4214	Monday, June 16, 2014 2:31:30 PM	ITI-62	KSA [XDS.B]	ITI-62		Nist registry	RemoveObjectsRequest	RegistryResponse	

## 6 ITI-38 - Cross Gateway Query

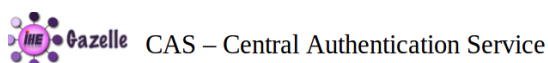
### 6.1 Tool description

This tool provides the possibility to create a valid request according to the transaction ITI-38. The tool participate as an Initiating Gateway on the transaction.

If you are a Responding Gateway, and you want to test your tool with XDStarClient on the transaction ITI-38, you have to :

#### 6.1.1 Login using the cas login.

It is a link on the top, right corner. You will go then to the page of the CAS



Entrez votre identifiant et votre mot de passe.

Identifiant:

Mot de passe:

☐ Prévenez-moi avant d'accéder à d'autres services.

Pour des raisons de sécurité, veuillez vous déconnecter et fermer votre navigateur lorsque vous avez fini d'accéder aux services authentifiés.

Languages:

[English](#) [Spanish](#) [French](#) [Russian](#) [Nederlands](#) [Svenskt](#) [Italiano](#) [Urdu](#) [Chinese \(Simplified\)](#) [Deutsch](#) [Japanese](#) [Croatian](#) [Czech](#) [Slovenian](#) [Catalan](#) [Macedonian](#) [Polish](#)

The login and password are the same one of gazelle test management [EU-CAT](#).

If you do not have a login and a password, you have to create on on <http://gazelle.ihe.net/EU-CAT/>

#### 6.1.2 Add the configuration of your system

Once logged in, you have to go to the page menu --> System Configuration. Select then the **System's configuration Type** = Responding Gateway Configuration.

Here you have the list of all registred Responding Gateway to XDStarClient.

XDStarClient XDS-Metadata SUT Configurations Simulators Manage Patients XDS Documentation Messages Administration Signed in as: aboutahj Logo

XDStarClient > SUT Configurations

### Configurations Types

you can view the list of configurations registered to XDStarClient by choosing the type of the configuration you are looking for (eg. Registry Configuration, etc.).

To add a new configuration you have to :

- login using the cas login (right corner on the top). If you don't have an account, create new one on <http://gazelle.ihe.net/EU-CAT>.
- select your configuration type;
- click on the button 'Create new configuration';
- fill properties of your system (URL, name, homecommunityID, etc);
- choose the kind of transactions your system will test;
- click then on save button.

**Check the availability of configurations**

System's configuration Type

Related 'Affinity Domain/context' to this type of configuration are :

- IHE (XCA) => ITI-38
- IHE (XCA) => ITI-39
- epSOS => epSOS-1
- IHE (XCF) => ITI-63
- epSOS-2 => FetchDocumentService

#### Responding Gateway Configurations

**Create Responding Gateway Configuration**

Name	System Name	URL	Owner	context	homeCommunityId	Repository UniqueId	Action
DK NSI RespGw	DK NSI RespGw	<a href="https://77.243.52.137:8233/SpirProxy/RespGW">https://77.243.52.137:8233/SpirProxy/RespGW</a>		epSOS => epSOS-1	2.16.17.710.802.1000.2.1.1.1.19	2.16.17.710.802.1000.2.1.1.1.19	
ESNA_NCP_A	ESNA_NCP_A_SUPPORT	<a href="https://195.64.187.55:8443/SpirProxy/RespGW">https://195.64.187.55:8443/SpirProxy/RespGW</a>		epSOS => epSOS-1	2.16.17.710.801.1000.2.1.1.1.19	2.16.17.710.801.1000.2.1.1.1.19	
gazelle secure XDS responding gateway : query	gazelle secure XDS responding gateway : query	<a href="https://131.254.209.20:1443/query">https://131.254.209.20:1443/query</a>	aboutahj	epSOS-2 => FetchDocumentService	2.16.17.710.812.1000.990.1	2.16.17.710.812.1000.990.1	

To add you configuration you have to click on the Button **"Create Responding Gateway Configuration"**

#### Configuration Edit

**Name**

**System Name**

**URL**

**homeCommunityId**

**Repository UniqueId**

**AffinityDomains / Transactions**

IHE (XCA) => ITI-38  
IHE (XCA) => ITI-39  
epSOS => epSOS-1  
IHE (XCF) => ITI-63  
epSOS-2 => FetchDocumentService

Copy all  
 Copy  
 Remove  
 Remove All

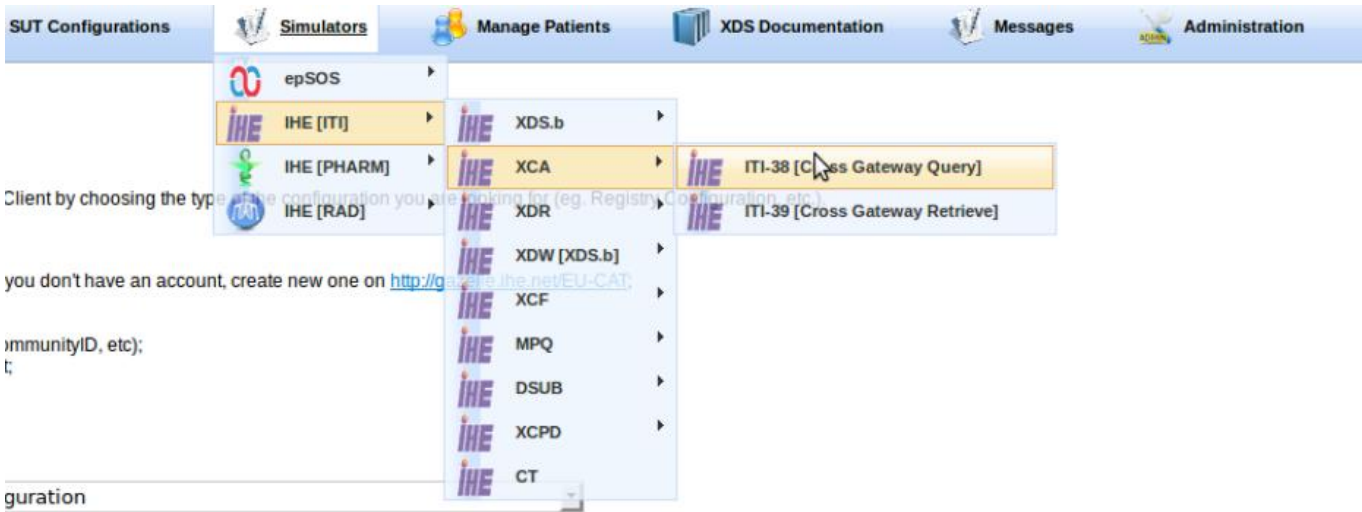
**Public Configuration** ☐

**Save** **Cancel**

You have to specify the name of your configuration, the URL, the homeCommunityId, the repositoryUniqueId, and the affinityDomain, in our case it is IHE(XDA) => ITI-38. Then you have to click on the button save.

## 6.2 3. Test your system with XDStarClient

Go then to menu --> [XDStarClient](#) > [Simulators](#) > [IHE \[ITI\]](#) > [XCA](#) > ITI-38 [Cross Gateway Query] .



You select then your configuration, your message type, and then you fulfil metadata. Click then on the button Execute.

configurations  +

Affinity Domain

Transaction

MessageType

**RequestParameters**

This table gathers the fields of the request and the values they will be filled with

Opt.	Metadata Name	Value(s)
R	\$XDSDocumentEntryPatientId	+
R	\$XDSDocumentEntryStatus	urn:oasis:names:tc:ebxml-regrep:StatusType:Approved -

[Add Other Metadata](#)

**Simulator**

Name	HomeCommunityID
INIT-Gateway Simulator	1.3.6.1.4.1.12559.11.3.1

**System Under Test**

Name	System Name	URL
Jumbo nonTLS	Jumbo nonTLS	http://jumbo-3.fra.fr:9080/epos/services/ig

**Diagram**

INIT\_GATEWAY:SIMU

RESP\_GATEWAY:SUT

CROSS GATEWAY QUERY/RETRIEVE

## 7 ITI-41 : Provide and Register Set-b

### 7.1 Simulator Description

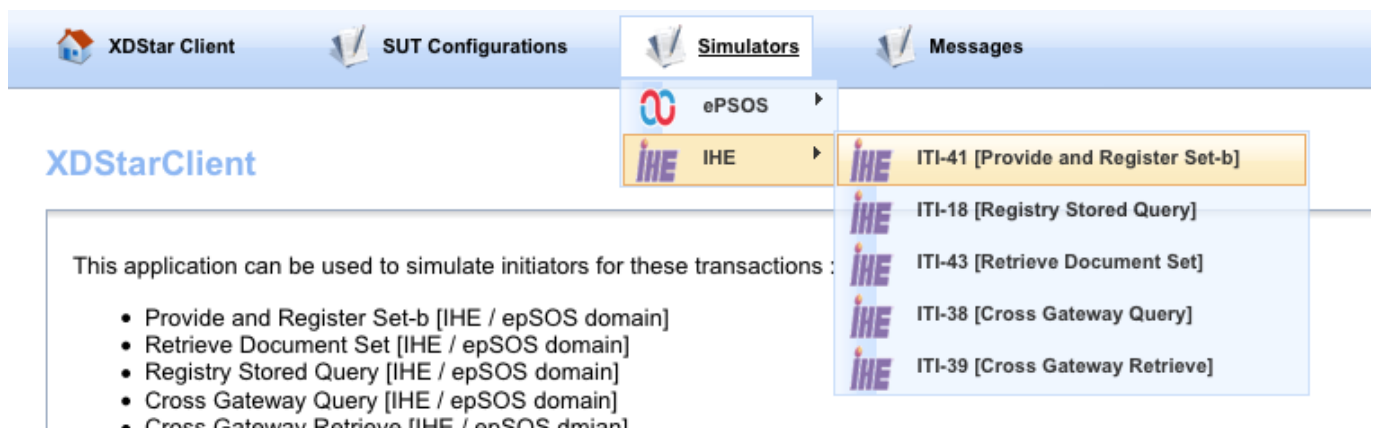
You can access To the simulator:

[http://gazelle.ihe.net/XDStarClient/provide\\_register/xdrsrcSimulator.seam?affinityDomainKeyword=IHE\\_XDS-b&transactionKeyword=ITI-41](http://gazelle.ihe.net/XDStarClient/provide_register/xdrsrcSimulator.seam?affinityDomainKeyword=IHE_XDS-b&transactionKeyword=ITI-41)

The aim of this module is to simulate a document source actor on the transaction ITI-41, IHE domain.

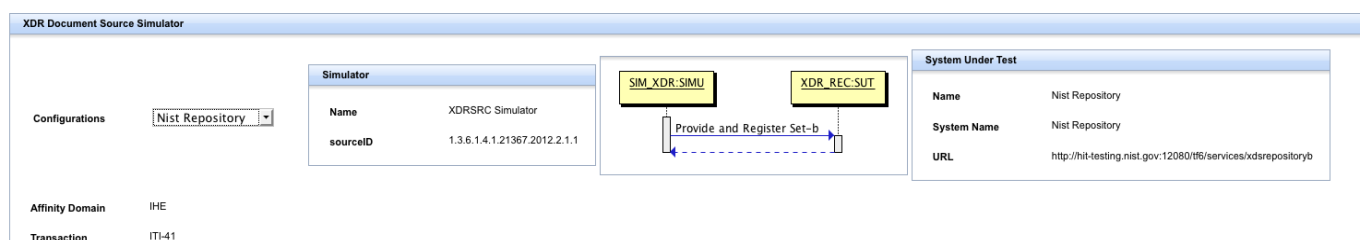
This module allow vendors to submit documents, folders and associations between documents, folders and submissionSet.

To access to this simulator, you have to check the menu Simulator --> IHE --> ITI-41



### 7.2 System configuration

#### Provide and Register Set-b



If you your system's configuration does not appear on the list of configuration to select, please go from the menu to SUT-Configurations --> Repositories-configurations. Then you will see all available configuration for testing. To add your configuration you have to click on the button "Create Registry Configuration". If you don't see this button, that's means that you are not logged in. Only logged users are allowed to add a system configuration to the XDStarClient tool.

To log in this tools, you have to use the link "cas login" on the menu. The login and password are the same one of gazelle test management [EU-CAT](#). If you don't have a login and a password on EU-CAT, please create an account.

After login, you will be able to add a repository configuration, on the page <http://gazelle.ihe.net/XDStarClient/configuration/repository/repConfigurations.seam> :

#### Repository Configuration

Repository Configurations				
Create Repository Configuration				
Name	System Name	URL	Repository UniqueId	Action
<input type="text"/>	<input type="text"/>			
Epos Secured	Jumbo Repository	https://131.254.209.14:9085/epos/services/xdsrepositoryb		
Epos Unsecured	Jumbo Repository	http://131.254.209.14:9080/epos/services/xdsrepositoryb		
Nist Repository	Nist Repository	http://hit-testing.nist.gov:12080/ttf6/services/xdsrepositoryb	1.19.6.24.109.42.1.5	

Water clicking on the button "Create Repository Configuration", you will be able to add your configuration to the tool :

#### Repository Configuration

Configuration Edit	
Name	<input type="text"/>
System Name	<input type="text"/>
URL	<input type="text"/>
Repository UniqueId	<input type="text"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

### 7.3 Metadatas edition and configuration

#### ■ Initialization of the request

When going from the menu to simulators --> IHE --> ITI-41, and after selecting your configuration, a GUI for editing metadata and for configuring your submission request appear :

Submission Set :: XDS Submission Set

Submission Set title: XDS Submission Set

Patient Id:

Opt.	Metadata Name	Value(s)
R	XDSSubmissionSet.sourceId	1.3.6.1.4.1.21367.2012.2.1.1
R	XDSSubmissionSet.uniqueId	1.3.6.1.4.1.12559.11.1.2.2.1.1.2.25
R	XDSSubmissionSet.contentTypeCode	please select ..

Add OptionalMetadata

Execute

This GUI contains two sides : a tree to represent folders and documents, and a side to represent metadata for each component on the submissionSet.

The patient Id will be used for all submitted documents, folders and for the submissionSet. The sourceId is by default the one of the XDStarClient, and the uniqueId is automatically generated from the XDStarClient.

If a metadata is present by default on the table of metadatas, that's mean that this metadata is required. For example, for submissionset, the XDSSubmissionSet.contentTypeCode is required. The value that you can select for this metadata are the displayName of codes that will be used for bern CAT. These codes can be token from <http://hit-testing.nist.gov:12080/xdsref/codes/codes.xml>, or from the SVS simulator as REST request. OID that I have defined for each code are :

<a href="#">1.3.6.1.4.1.12559.11.4.3.1</a>	contentTypeCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.2</a>	classCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.3</a>	confidentialityCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.4</a>	formatCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.5</a>	healthcareFacilityTypeCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.6</a>	practiceSettingCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.7</a>	eventCodeList
<a href="#">1.3.6.1.4.1.12559.11.4.3.8</a>	typeCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.9</a>	mimeType
<a href="#">1.3.6.1.4.1.12559.11.4.3.10</a>	folderCodeList
<a href="#">1.3.6.1.4.1.12559.11.4.3.11</a>	associationDocumentation

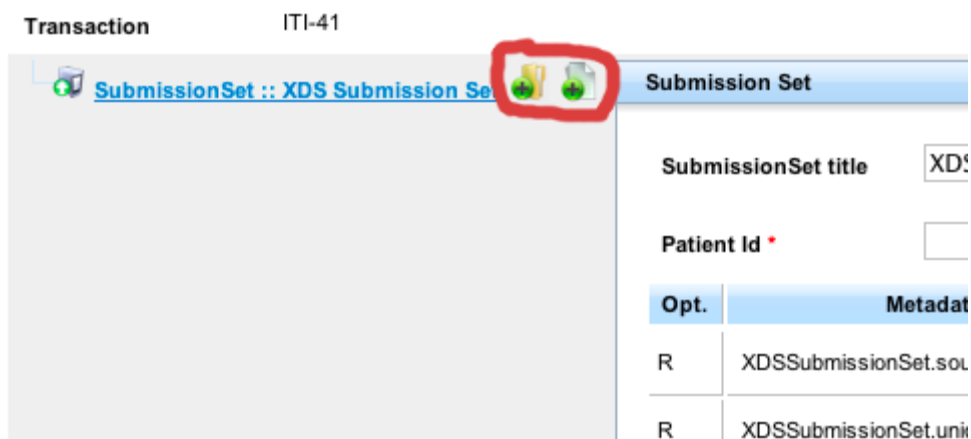
Additional metadata can be added to the submissionSet, by clicking on the button "add optional metadata on the bottom of the table of metadata. A list of Optional metadata will appear, and you can then select the one you want. Additional metadata can be deleted from the table after being added :

Opt.	Metadata Name	Value(s)
R	XDSSubmissionSet.sourceId	1.3.6.1.4.1.21367.2012.2.1.1
R	XDSSubmissionSet.uniqueId	1.3.6.1.4.1.12559.11.1.2.2.1.1.2.25
O	intendedRecipient	+
R	XDSSubmissionSet.contentTypeCode	please select ..

#### Add Optional Metadata

#### ■ Attach XDSFolder to submissionSet

To Attach an XDSFolder to an XDSSubmissionSet, you have to click on the icon "add xdsfolder to the submissionSet", on the tree of list attached documents and folder :



When clicking on add folder, a new XDSFolder appear on the tree. On the right side, we can see list of required metadata related to the XDSFolder :

SubmissionSet :: XDS Submission Set
XDS Folder 1

#### XDS Folder

XDS Folder title: XDS Folder 1

Opt.	Metadata Name	Value(s)
R	XDSFolder.uniqueId	1.3.6.1.4.1.12559.11.1.2.2.1.1.1.26
R	XDSFolder.codeList	please select ..

Execute

For each XDSFolder, we can attach an XDSDocument by clicking on the icon "add XDSDocument to the folder."

#### ■ Attach XDS Document Entry

To attach an XDSDocumentEntry to an XDSFolder or to the submissionSet, you have to click on the icon . You can see then that an entry on the tree is added, containing a link to the XDSDocument entry. On the left side, we see an upload component, to upload your document to submit :



After uploading your file, you will see that a list of metadata has been rendered. This list contains the XDS metadata required. To add optional metadata, you have to click on the button "Add optional Metadata", and then select your metadata to add, and finally add your data on the table of metadata :

Opt.	Metadata Name	Value(s)
R	XSDocumentEntry.uniqueId	1.3.6.1.4.1.12559.11.1.2.2.1.1.1.35
R	languageCode	
R	XSDocumentEntry...	
R	XSDocumentEntry...	
R	XSDocumentEntry...	
R	XSDocumentEntry.formatC...	
R	XSDocumentEntry.healthca...	
R	XSDocumentEntry.practice...	
R	XSDocumentEntry.typeCode	please select ..

After creating our submissionSet, with folders and documents, we can then send the request using the button "execute".

The request sent is MTOM/XOP request, to the specified configuration's URL.

The result of the communication is shown on a table on the bottom of the page :

Résumé de l'exécution									
Id	TimeStamp	Transaction	AffinityDomain	MessageType	ResponseCode	Responder	Request	Response	Action
8	lundi 7 mai 2012 17:16:50	ITI-41	IHE_XDR		200	Nist Repository	ProvideAndRegisterDocumentSetRequest	RegistryResponse	

From the id column, you can access to a permanent link to the message (the request and the response). Action buttons are : view and validate.

The view button shows the two messages : request and response. The second button is validate messages, it lets you to validate the request and the response to a schema and to a model driven validation. The validation of metadata is done only for request ITI-41 :

Validation of metadatas

Request
Response

### External Validation Report

General Information

Validation Date2012, 05 07 - 05:24:45  
Validation ServiceGazelle XDSMetadata Validation ()  
Validation Test Status**PASSED**

XSD Validation detailed Results

The document you have validated is supposed to be an XML document. The validator has checked if it is well-formed and has validated it against one ore several XSD schemas, results of those validations are gathered in this part.  
  
The XML document is well-formed

Validation details

Warnings

Test

Location

Description

constraintAuthorSubmissionSet\_required\_ifKnown

/SubmitObjectsRequest/RegistryObjectList

WARNING : This condition is not verified : The author is required on SubmissionSet if known (IHE\_ITI\_TF\_Rev8-0\_Vol3\_FT\_2011-08-19.pdf Table 4.1-6)

## 7.4 List of Provide and Register Set-b Messages

We can get all messages sent by this tool from the menu : Messages --> Provide and Register Set-b Messages :

### Provide and Register Set-b Messages

Id	TimeStamp	Transaction	AffinityDomain	MessageType	ResponseCode	Responder	Request	Response	Action
8	lundi 7 mai 2012 17:16:50	ITI-41	IHE_XDR		200	Nist Repository	ProvideAndRegisterDocumentSetRequest	RegistryResponse	
5	lundi 7 mai 2012 11:07:35	ITI-41	IHE_XDR		200	Nist Repository	ProvideAndRegisterDocumentSetRequest	RegistryResponse	
4	lundi 7 mai 2012 10:46:13	ConsentService.put()	epSOS_XDR	ConsentService.put()	200	Epsos Unsecured	ProvideAndRegisterDocumentSetRequest	RegistryResponse	
3	lundi 7 mai 2012 10:44:58	DispensationService.initialize()	epSOS_XDR	DispensationService.initialize()	200	Epsos Unsecured	ProvideAndRegisterDocumentSetRequest	RegistryResponse	

## 8 ITI-62 [Delete Document Set]

This tool allows to simulate the transaction ITI-62.  
This transaction allows to delete document(s) from a repository.  
To use this tool you have to :

- Select your repository configuration or add a new one on the page [Configurations](#).
- fulfil the request parameters, which are a list of ObjectRef ID.
- execute the request using the button 'execute'. You can preview your request SOAP by using the button 'preview'.

**Delete Document Set**

This tool allows to simulate the transaction ITI-62.  
This transaction allows to delete document(s) from a repository.  
To use this tool you have to :

- Select your repository configuration or add a new one on the page [Configurations](#).
- fulfil the request parameters, which are a list of ObjectRef ID.
- execute the request using the button 'execute'. You can preview your request SOAP by using the button 'preview'.

**Configurations** Nist registry +

**Simulator**

Name Init Gateway / Doc Administrator

**System Under Test**

Name Nist registry  
System Name Nist registry  
URL http://hl-testing.nist.gov:12080/8f0/services/xdsregistryb

**Affinity Domain** KSA [XDS.t]

**Transaction** ITI-62

**RequestParameters**

[Add ObjectRef to delete](#)


List of object references to delete :

- urn:uuid:d6f4f42b-6fb2-49d6-b5fa-a45d635103c0

Use XUA ? ☐

[Preview](#) [Execute](#) [Reset](#)

After clicking on execute button, a table will be displayed, containing the result of the execution.

Execution Summary									
Id	TimeStamp	Transaction	AffinityDomain	MessageType	ResponseCode	Responder	Request	Response	Action
4214	Monday, June 16, 2014 2:31:30 PM	ITI-62	KSA [XDS.t]	ITI-62		Nist registry	RemoveObjectsRequest	RegistryResponse	

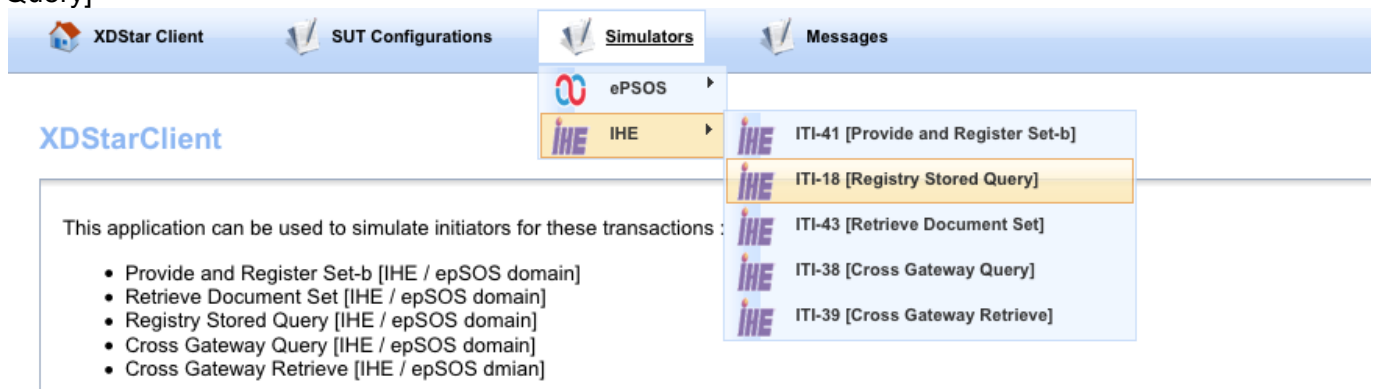
## 9 ITI-18 : Registry Stored Query

### 9.1 Tool description

The aim of this tool is to simulate an XDS consumer on the transaction Registry Stored Query (ITI-18), on IHE domain.

This module allow vendors to query registries using XDS metadata.

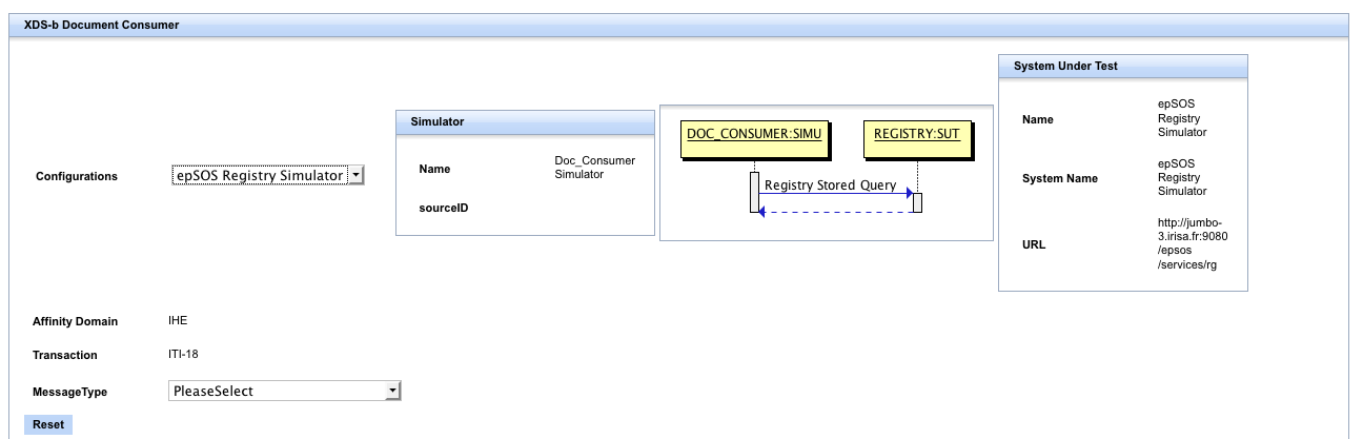
To access to this simulator, you have to check the menu Simulators --> IHE --> ITI-18 [Registry Stored Query]



### 9.2 System Configuration

Configurations used on this transaction are registries configurations. To use this tool, you have to select a registry configuration from the selector component :

#### Registry Stored Query











If your system's configuration does not appear on the list of configuration to select, please go from the menu to SUT-Configurations --> Registries-configurations. Then you will see all available configurations for testing. To add your configuration you have to click on the button "Create Registry Configuration". If you don't see this button, that's means that you are not logged in. Only logged users are allowed to add a system configuration to the XDStarClient tool.

To log in this tools, you have to use the link "cas login" on the menu. The login and password are the same one of gazelle test management [EU-CAT](#). If you don't have a login and a password on EU-CAT, please create an account.

After login, you will be able to add a registry configuration, on the page:

#### Registry Configuration

Registry Configurations					
Create Registry Configuration					
Name	System Name	URL	Home CommunityId	Repository UniqueId	Action
Nist Registry	Nist Registry	http://hit-testing.nist.gov:12080/tf6/services/xdsregistryb			 
ser	ser	http://ser-healthcare1.ihe-europe.net:8081/dx4-ihe-xds/ws/ti18Service			 
epSOS Registry Simulator	epSOS Registry Simulator	http://jumbo-3.irisa.fr:9080/epsos/services/rg		2.16.17.710.812.1000.990.1	 
rogan	rogan	https://rogan10.8443/XDSRegistry/XDSRegistryService.svc			 

When clicking on the button "Create Registry Configuration", you will be able to add your configuration to the tool :

#### Registry Configuration

Configuration Edit	
Name	<input type="text"/>
System Name	<input type="text"/>
URL	<input type="text"/>
Home CommunityId	<input type="text"/>
Repository UniqueId	<input type="text"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

## 10 ITI-41 : Provide and Register Set-b

### 10.1 Simulator Description

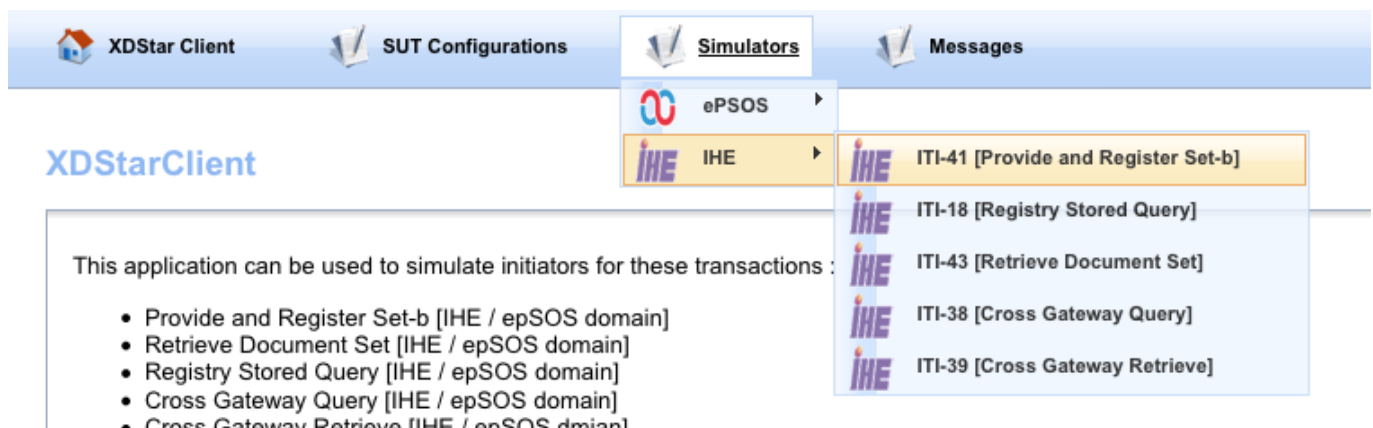
You can access to the simulator:

[http://gazelle.ihe.net/XDStarClient/provide\\_register/xdrsrcSimulator.seam?affinityDomainKeyword=IHE\\_XDS-b&transactionKeyword=ITI-41](http://gazelle.ihe.net/XDStarClient/provide_register/xdrsrcSimulator.seam?affinityDomainKeyword=IHE_XDS-b&transactionKeyword=ITI-41)

The aim of this module is to simulate a document source actor on the transaction ITI-41, IHE domain.

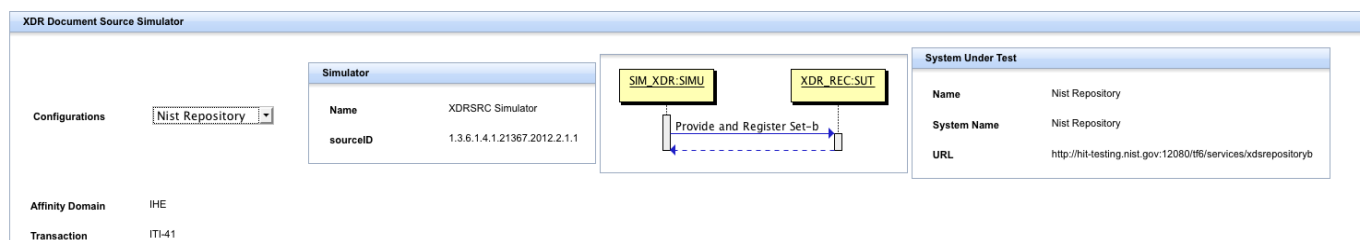
This module allow vendors to submit documents, folders and associations between documents, folders and submissionSet.

To access to this simulator, you have to check the menu Simulator --> IHE --> ITI-41



### 10.2 System configuration

#### Provide and Register Set-b



If you your system's configuration does not appear on the list of configuration to select, please go from the menu to SUT-Configurations --> Repositories-configurations. Then you will see all available configuration for testing. To add your configuration you have to click on the button "Create Registry Configuration". If you don't see this button, that's means that you are not logged in. Only logged users are allowed to add a system configuration to the XDStarClient tool.

To log in this tools, you have to use the link "cas login" on the menu. The login and password are the same one of gazelle test management [EU-CAT](#). If you don't have a login and a password on EU-CAT, please create an account.

After login, you will be able to add a repository configuration, on the page <http://gazelle.ihe.net/XDStarClient/configuration/repository/repConfigurations.seam> :

#### Repository Configuration

Repository Configurations				
Create Repository Configuration				
Name	System Name	URL	Repository UniqueId	Action
<input type="text"/>	<input type="text"/>			
Epos Secured	Jumbo Repository	https://131.254.209.14:9085/epos/services/xdsrepositoryb		
Epos Unsecured	Jumbo Repository	http://131.254.209.14:9080/epos/services/xdsrepositoryb		
Nist Repository	Nist Repository	http://hit-testing.nist.gov:12080/tf6/services/xdsrepositoryb	1.19.6.24.109.42.1.5	

Water clicking on the button "Create Repository Configuration", you will be able to add your configuration to the tool :

#### Repository Configuration

Configuration Edit	
Name	<input type="text"/>
System Name	<input type="text"/>
URL	<input type="text"/>
Repository UniqueId	<input type="text"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

### 10.3 Metadatas edition and configuration

#### ■ Initialization of the request

When going from the menu to simulators --> IHE --> ITI-41, and after selecting your configuration, a GUI for editing metadata and for configuring your submission request appear :

Submission Set :: XDS Submission Set

Submission Set title: XDS Submission Set

Patient Id:

Opt.	Metadata Name	Value(s)
R	XDSSubmissionSet.sourceId	1.3.6.1.4.1.21367.2012.2.1.1
R	XDSSubmissionSet.uniqueId	1.3.6.1.4.1.12559.11.1.2.2.1.1.2.25
R	XDSSubmissionSet.contentTypeCode	please select ..

Add OptionalMetadata

Execute

This GUI contains two sides : a tree to represent folders and documents, and a side to represent metadata for each component on the submissionSet.

The patient Id will be used for all submitted documents, folders and for the submissionSet. The sourceId is by default the one of the XDStarClient, and the uniqueId is automatically generated from the XDStarClient.

If a metadata is present by default on the table of metadatas, that's mean that this metadata is required. For example, for submissionset, the XDSSubmissionSet.contentTypeCode is required. The value that you can select for this metadata are the displayName of codes that will be used for bern CAT. These codes can be token from <http://hit-testing.nist.gov:12080/xdsref/codes/codes.xml>, or from the SVS simulator as REST request. OID that I have defined for each code are :

<a href="#">1.3.6.1.4.1.12559.11.4.3.1</a>	contentTypeCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.2</a>	classCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.3</a>	confidentialityCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.4</a>	formatCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.5</a>	healthcareFacilityTypeCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.6</a>	practiceSettingCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.7</a>	eventCodeList
<a href="#">1.3.6.1.4.1.12559.11.4.3.8</a>	typeCode
<a href="#">1.3.6.1.4.1.12559.11.4.3.9</a>	mimeType
<a href="#">1.3.6.1.4.1.12559.11.4.3.10</a>	folderCodeList
<a href="#">1.3.6.1.4.1.12559.11.4.3.11</a>	associationDocumentation

Additional metadata can be added to the submissionSet, by clicking on the button "add optional metadata on the bottom of the table of metadata. A list of Optional metadata will appear, and you can then select the one you want. Additional metadata can be deleted from the table after being added :

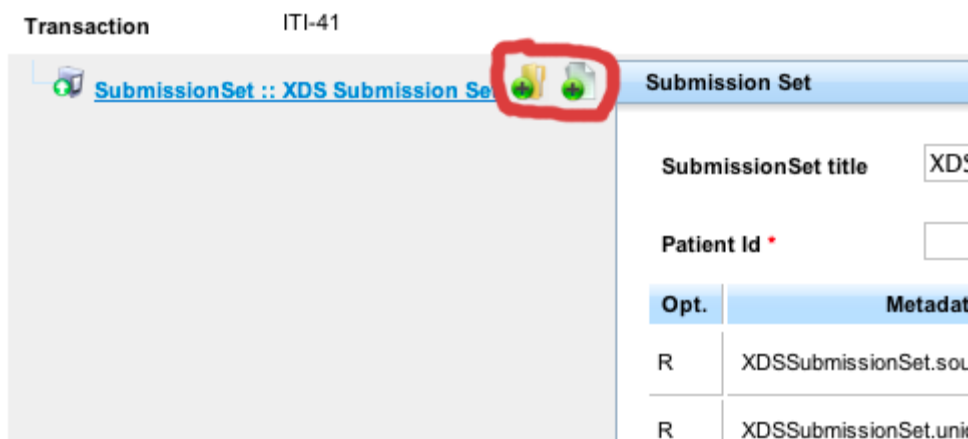


Opt.	Metadata Name	Value(s)
R	XDSSubmissionSet.sourceId	1.3.6.1.4.1.21367.2012.2.1.1
R	XDSSubmissionSet.uniqueId	1.3.6.1.4.1.12559.11.1.2.2.1.1.2.25
O	intendedRecipient	+
R	XDSSubmissionSet.contentTypeCode	please select ..

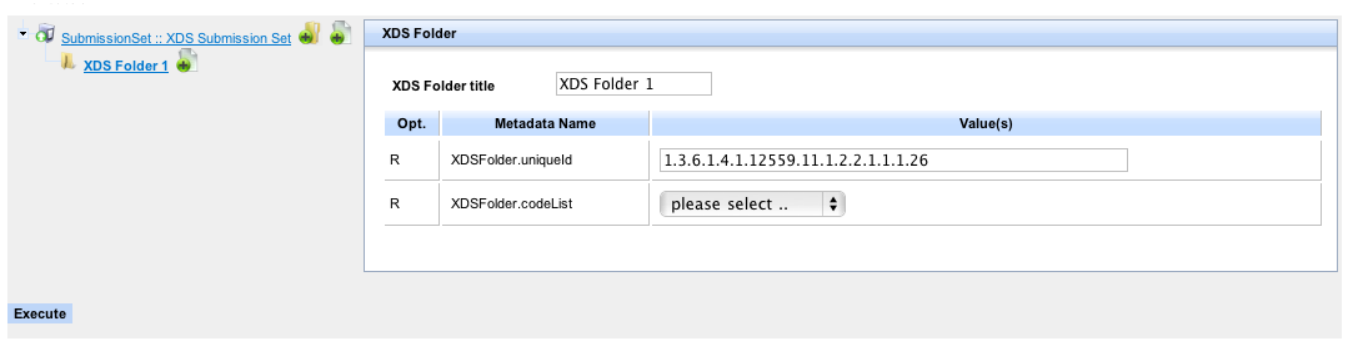
#### Add OptionalMetadata

#### ■ Attach XDSFolder to submissionSet

To Attach an XDSFolder to an XDSSubmissionSet, you have to click on the icon "add xdsfolder to the submissionSet", on the tree of list attached documents and folder :




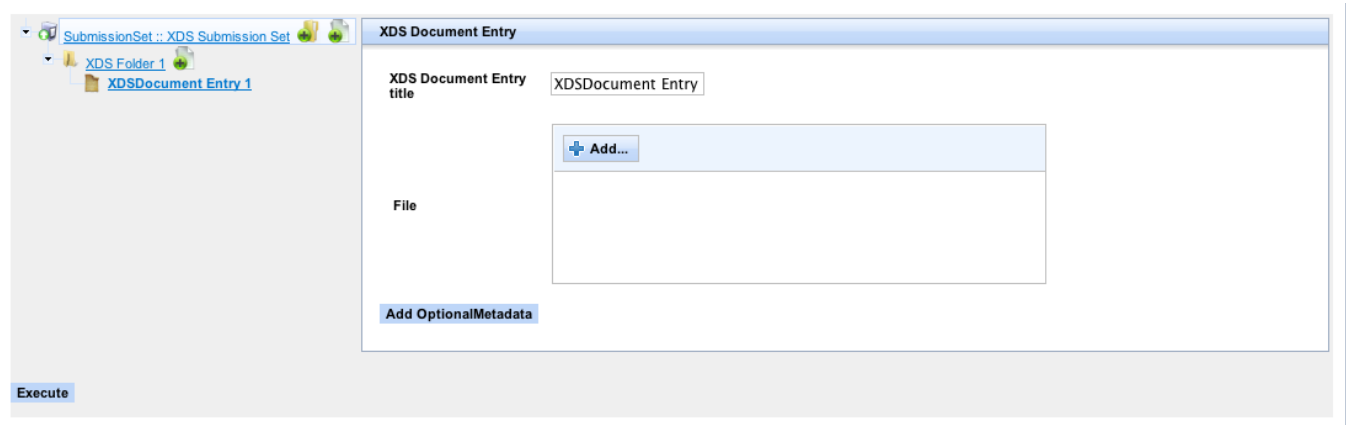
When clicking on add folder, a new XDSFolder appear on the tree. On the right side, we can see list of required metadata related to the XDSFolder :



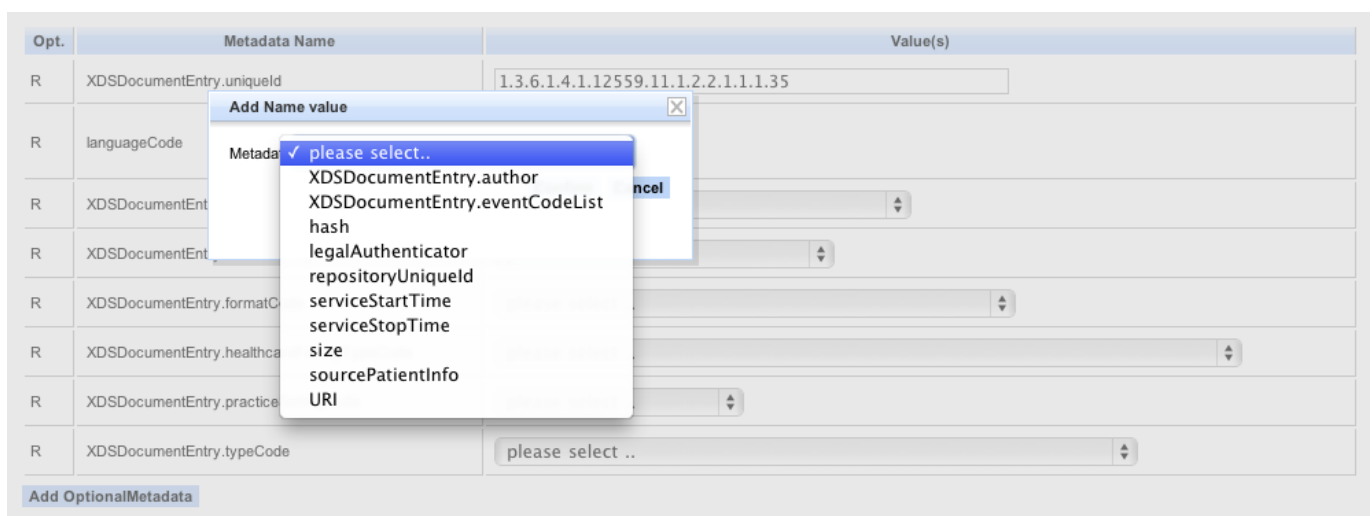
For each XDSFolder, we can attach an XDSDocument by clicking on the icon "add XDSDocument to the folder".

#### ■ Attach XDS Document Entry

To attach an XDSDocumentEntry to an XDSFolder or to the submissionSet, you have to click on the icon . You can see then that an entry on the tree is added, containing a link to the XDSDocument entry. On the left side, we see an upload component, to upload your document to submit :





After uploading your file, you will see that a list of metadata has been rendered. This list contains the XDS metadata required. To add optional metadata, you have to click on the button "Add optional Metadata", and then select your metadata to add, and finally add your data on the table of metadata :



After creating our submissionSet, with folders and documents, we can then send the request using the button "execute".

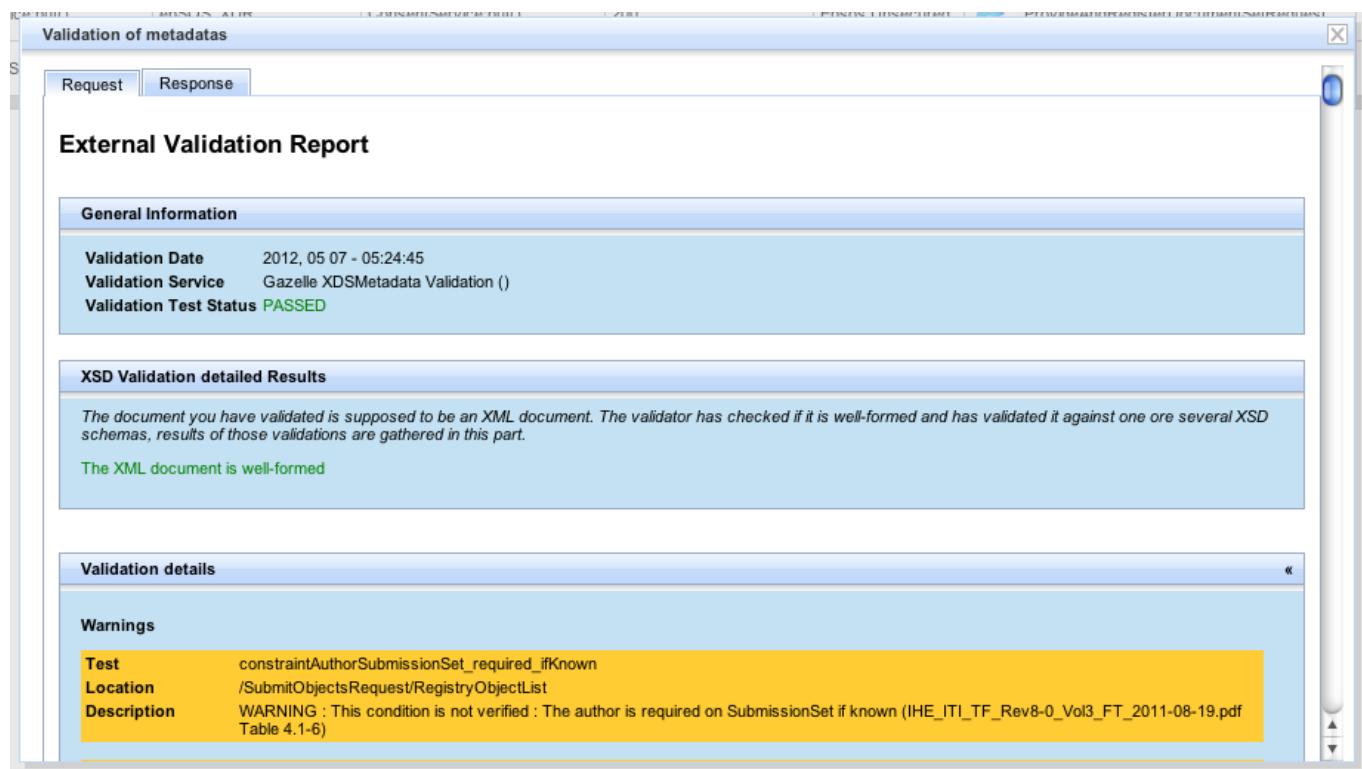
The request sent is MTOM/XOP request, to the specified configuration's URL.

The result of the communication is shown on a table on the bottom of the page :

Résumé de l'exécution									
Id	TimeStamp	Transaction	AffinityDomain	MessageType	ResponseCode	Responder	Request	Response	Action
8	lundi 7 mai 2012 17:16:50	ITI-41	IHE_XDR		200	Nist Repository	ProvideAndRegisterDocumentSetRequest	RegistryResponse	 

From the id column, you can access to a permanent link to the message (the request and the response). Action button are : view and validate.

The view button show the two messages : request and response. The second button is validate messages, it let you to validate the request and the response to a schema and to a model driven validation. The validation of metadata is done only for request ITI-41 :



## 10.4 List of Provide and Register Set-b Messages

We can get all messages sent by this tool from the menu : Messages --> Provide and Register Set-b Messages :

### Provide and Register Set-b Messages

Id	TimeStamp	Transaction	AffinityDomain	MessageType	ResponseCode	Responder	Request	Response	Action
8	lundi 7 mai 2012 17:16:50	ITI-41	IHE_XDR		200	Nist Repository	ProvideAndRegisterDocumentSetRequest	RegistryResponse	
5	lundi 7 mai 2012 11:07:35	ITI-41	IHE_XDR		200	Nist Repository	ProvideAndRegisterDocumentSetRequest	RegistryResponse	
4	lundi 7 mai 2012 10:46:13	ConsentService.put()	epSOS_XDR	ConsentService.put()	200	Epsos Unsecured	ProvideAndRegisterDocumentSetRequest	RegistryResponse	
3	lundi 7 mai 2012 10:44:58	DispensationService.initialize()	epSOS_XDR	DispensationService.initialize()	200	Epsos Unsecured	ProvideAndRegisterDocumentSetRequest	RegistryResponse	

## 11 ITI-43 [Retrieve Document Set]

This tool provides the possibility to create a valid request according to the transaction ITI-43. The request generated allows to retrieve a document (or a list of documents) from a repository or a document recipient.

To use this tool you have to :

- Select your responder configuration or add a new one on the page [configurations](#).
- Fulfill metadata of the request, for each document you are looking for.
- Click on the button 'execute' to retrieve document(s).

### Retrieve Document Set

**Retrieve Document Set**

This tool provides the possibility to create a valid request according to the transaction ITI-43. The request generated allows to retrieve a document (or a list of documents) from a repository or a document recipient. To use this tool you have to :

- Select your responder configuration or add a new one on the page [Configurations](#).
- Fulfill metadata of the request, for each document you are looking for.
- Click on the button 'execute' to retrieve document(s).

Configurations

AM\_IHE\_cons\_for\_test

+

Simulator

Name

Doc\_Consumer Simulator

DOC\_CONSUMER-SIMU

REPOSITORY-SUT

Retrieve Document Set

System Under Test

Name

AM\_IHE\_cons\_for\_test

System Name

AM\_IHE\_cons\_for\_test

URL

http://localhost:8480/xdstools2/sim/1.3.6.1.4.1.21367.2011.2.10.6/rep/ret

Affinity Domain

KSA [XDS.b]

Transaction

ITI-43

MessageType

Retrieve Document Set

RequestParameters

Retrieve Document Set Request :

+

Document request 1

✖

repositoryUniqueId\*

1.3.6.1.4.1.21367.2011.2.10.6

documentUniqueId\*

1.42.20140616133828.2

homeCommunityId

Use XUA ?



☐

Preview

Execute

Reset

The result of the request soap sent is viewed on the table after you click on the button execute, on the panel execution summary.

Execution Summary									
Id	TimeStamp	Transaction	AffinityDomain	MessageType	ResponseCode	Responder	Request	Response	Action
5211	Monday, June 16, 2014 1:40:45 PM	ITI-43	KSA [XDS.b]	RetrieveDocumentSet	200	AM_IHE_cons_for_test	RetrieveDocumentSetRequest	RetrieveDocumentSetResponse	 

To view the content of the messages, you have to click on view image from the table. A popup will be displayed with the content of the messages sent and received.

ITI-43

Sent MessageResponse Message

```
<S:Envelope xmlns:S="http://www.w3.org/2003/05/soap-envelope">
  <S:Header>
    <wsa:Action xmlns:wsa="http://www.w3.org/2005/08/addressing"
      xmlns:s="http://www.w3.org/2003/05/soap-envelope"
      s:mustUnderstand="1">urn:iti:2007:RetrieveDocumentSetResponse</wsa:Action>
    <wsa:RelatesTo xmlns:wsa="http://www.w3.org/2005/08/addressing">urn:uuid:01eca492-bcac-496f-805c-ecca82c5fc30</wsa:RelatesTo>
  </S:Header>
  <S:Body>
    <xdsb:RetrieveDocumentSetResponse xmlns:xdsb="urn:ihe:iti:xds-b:2007">
      <rs:RegistryResponse xmlns:rs="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0"
        status="urn:oasis:names:tc:ebxml-regrep:ResponseStatusType:Success"/>
      <xdsb:DocumentResponse>
        <xdsb:RepositoryUniqueId>1.3.6.1.4.1.21367.2011.2.10.6</xdsb:RepositoryUniqueId>
        <xdsb:DocumentUniqueId>1.42.20140616133828.2</xdsb:DocumentUniqueId>
        <xdsb:mimeType>text/xml</xdsb:mimeType>
        <xdsb:Document>
          <xop:Include xmlns:xop="http://www.w3.org/2004/08/xop/include"
            href="cid:doc1@ihexds.nist.gov"/>
        </xdsb:Document>
      </xdsb:DocumentResponse>
    </xdsb:RetrieveDocumentSetResponse>
  </S:Body>
</S:Envelope>
```

Attachments :

Id ▾	Content-ID	Content-Type	Content-Transfer-Encoding
<a href="#">166</a>	<doc1@ihexds.nist.gov>	text/xml	binary

You can download the file received from the table of the received attachments.

## 12 ITI-54 Document Metadata Publish

This tool allows to simulate the transaction ITI-54 between a Document Metadata Publisher and a Document Metadata Notification broker. The tool plays the role of a Document Metadata Publisher.

To access to the tool you should go to XDStarClient > Simulators > IHE [ITI] > DSUB > ITI-54 [Document Metadata Publish]

Then you have to select your system under test, the Document Metadata Notification broker.

**Document Metadata Publish [ITI-54]**

This tool provides the possibility to create a valid request according to the transaction ITI-54 : Document Metadata Publish  
To use this tool you have to :

- Select your responder configuration or add a new one on the page [configurations](#)
- Add one or multiple XDSDocumentEntry or SubmissionSet of XDSFolder to the current Publish request by clicking on the button Add, on the panel 'Publish Parameters'
- Fulfill All the metadatas of the added XDSDocumentEntry.
- You can add optional metadatas by clicking on the button 'Add Other Metadatas'.
- Click on the button 'execute' to execute the request.

**configurations** xds recipient +

**Simulator**

Name	Document Metadata Publisher Simulator
DOC META PUB.SIMU	
DOC META NOTIF BROKER.SUT	

**System Under Test**

Name	xds recipient
System Name	xds recipient
URL	http://131.254.209.20:8080/XDStarClient-XDStarClient-egJDSUBRecipientWS?wsdl

**Affinity Domain** IHE (DSUB)  
**Transaction** ITI-54  
**MessageType** DSUB-Publish

The user is able to add even a submission set, a folder, or a document entry to the publish request using the buttons : , or

After fulfilling the metadatas related to each entry, the user can send the webservice message using the button execute.

**Publish parameters**

**DSUB metadatas**

- XDS Document Entry 1
- XDS Folder 1
- XDS Submission Set 1

**XDS Document Entry**

Opt.	Metadata Name	Value(s)
R	XDSDocumentEntry.uniqueId	1.3.6.1.4.1.12559.11.1.2.2.1.1.3.32975
R	XDSDocumentEntry.patientId (DSUB)	1.2.3
R	languageCode	en-US
R	creationTime	20150120051458
R	XDSDocumentEntry.classCode	History and Physical
R	XDSDocumentEntry.confidentialityCode	Restricted
R	XDSDocumentEntry.formatCode	Exchange of Personal Health Records
R	XDSDocumentEntry.healthcareFacilityTypeCode	Nephrology clinic
R	XDSDocumentEntry.practiceSettingCode	Gynecology
R	XDSDocumentEntry.typeCode	Discharge Note

**Random Fulfill** **Add OptionalMetadata**

The result of the request is displayed even in a permanent link using the id shown in the table after the execution, or using the loop button in the action column, from the table shown below.

Execution Summary									
Id	TimeStamp	Transaction	AffinityDomain	MessageType	ResponseCode	Responder	Request	Response	Action
6353	mardi 20 janvier 2015 17:15:08	ITI-54	IHE (DSUB)	DSUB-Publish	200	xds recipient	Notify	--	

## 13 RAD-68 [Provide and Register Imaging Document Set - MTOM/XOP]

This tool provides the possibility to send documents to a repository or a document recipient using the transaction RAD-68

To use this tool you have to :

- Select your repository configuration or add a new one on the page [configurations](#).
- Fulfil metadatas of the submissionSet. The patientId of the submissionSet is required.
- Upload the document(s) to submit, and fulfil IHE metadatas related to the document(s). Uploaded documents shall be dicom KOS Manifest or CDA documents.
- Click on execute button to send the document(s) to the selected configuration.

RAD-68 transaction is too similar to the ITI-41 transaction, with different metadatas.

### Provide and Register Imaging Document Set - MTOM/XOP

This tool provides the possibility to send documents to a repository or a document recipient using the transaction RAD-68. To use this tool you have to :

- Select your repository configuration or add a new one on the page [Configurations](#).
- Fulfil metadatas of the submissionSet. The patientId of the submissionSet is required.
- Upload the document(s) to submit, and fulfil IHE metadatas related to the document(s). Uploaded documents shall be dicom KOS Manifest or CDA documents.
- Click on execute button to send the document(s) to the selected configuration.

Configurations

1.3.6.1.4.1.21367.2011.2.10.5

+

**Simulator**

Name: Imaging Document Source Simulator

**DOC REPOSITORY: SUT**

Imaging Document Source: SIMU

Provide and Register Imaging Document Set - MTOM/XOP

**System Under Test**

Name: 1.3.6.1.4.1.21367.2011.2.10.5

System Name: 1.3.6.1.4.1.21367.2011.2.10.5

URL: http://localhost:9090/vds-tool2/sim/1.3.6.1.4.1.21367.2011.2.10.5/res/prb

Affinity Domain: SIR [KSA]

Transaction: RAD-68

**XDS Metadatas**

SubmissionSet :: XDS Submission Set

SubmissionSet title: XDS Submission Set

patient Id: \*

Opt.	Metadata Name	Value(s)
R	XDSSubmissionSet.sourceId	1.3.6.1.4.1.12559.11.13.2.5
R	XDSSubmissionSet.uniqueId	1.3.6.1.4.1.12559.11.13.2.6.8208
R	XDSSubmissionSet.contentTypeCode (KSA XDS.b)	Laboratory, imaging, and other studies

Add OptionalMetadata

Preview Execute

For more documentation on how to fulfill the metadatas, please refer to the documentation of [ITI-41 transaction](#).

## 14 RAD-69 [Retrieve Imaging Document Set]

This tool provides the possibility to create a valid request according to the transaction RAD-69. The request generated allow to retrieve a DICOM document (or a list of documents), based on informations provided by the KOS Manifest. To use this tool you have to :

- Go to menu > > Simulators > IHE [RAD] > XDS-I.b > RAD-69 [Retrieve Imaging Document Set]
- Select your responder configuration or add a new one on the page [configurations](#).
- Fulfil metadata of the request, for each document you are looking for.
- Click on the button 'execute' to retrieve document(s).

[XDStarClient](#) > [Simulators](#) > [IHE \[RAD\]](#) > [XDS-I.b](#) > RAD-69 [Retrieve Imaging Document Set]

### Retrieve Imaging Document Set

**Retrieve Imaging Document Set**

This tool provides the possibility to create a valid request according to the transaction RAD-69. The request generated allow to retrieve a DICOM document (or a list of documents). To use this tool you have to :

- Select your responder configuration or add a new one on the page [configurations](#).
- Fulfil metadata of the request, for each document you are looking for.
- Click on the button 'execute' to retrieve document(s).

configurations

dcm4chee-test

+

**Simulator**

Name	Imaging Document Consumer Simulator
------	-------------------------------------

**System Under Test**

Name	dcm4chee-test
System Name	dcm4chee-test
URL	http://131.254.209.15:8080/dcm4chee-xdsb-repository?wsdl

Affinity Domain: IHE (XDS-I.b)

Transaction: RAD-69

**XDS Metadata**

Generate request from KOS Manifest

- Retrieve Imaging Document Set Request
  - Study Request 0
    - Series Request 0
      - Document Request 0

**Retrieve Imaging Document Set**

TransferSyntaxUID List :

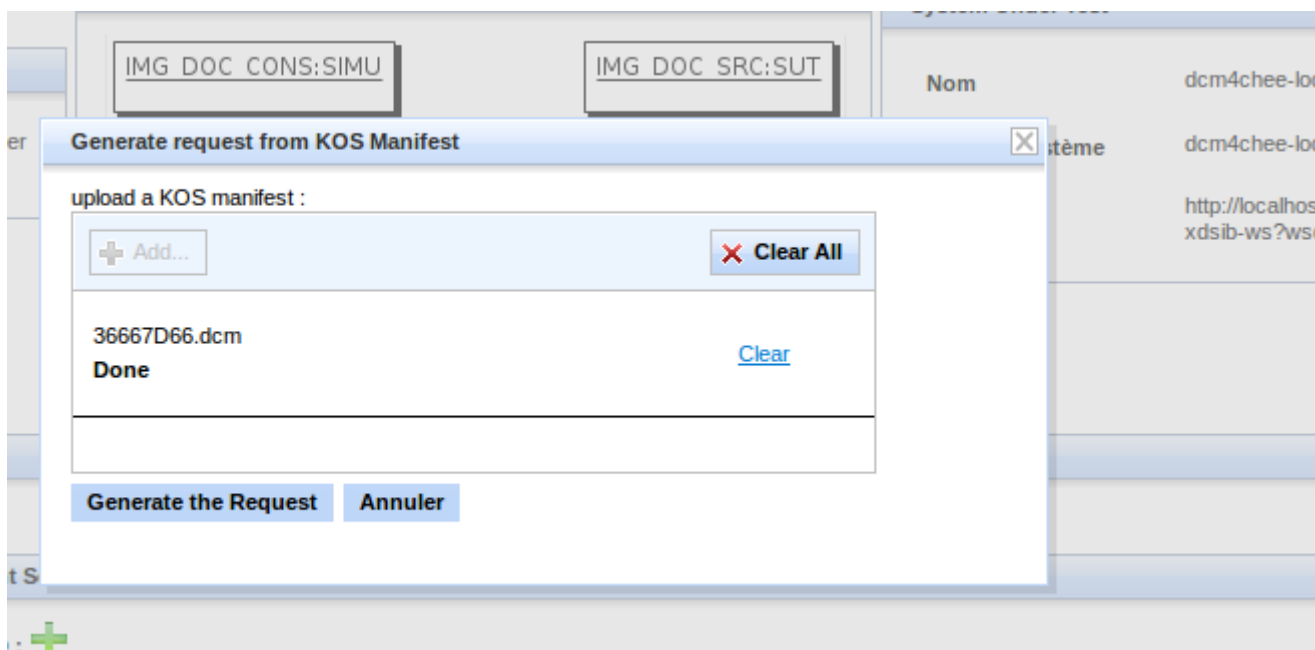
- 1.2.840.10008.1.2.1

Preview

Execute

This tool offer the possibility to upload a KOS manifest, and then generate the corresponding soap request to retrieve the DiCOM sop instances.





After clicking on execute button, the soap request is sent, and the result of the request can be seen in the table displayed.

## 15 RAD-55 [WADO Retrieve]

This tool provides the possibility to create a valid request according to the transaction RAD-55  
To use this tool you have to :

- Select your responder configuration or add a new one on the page [configurations](#).
- Fulfill metadata of the request
- Click on the button 'execute' to retrieve the document requested

### RAD-55 : WADO Retrieve

**RAD-55 : WADO Retrieve**

This tool provides the possibility to create a valid request according to the transaction RAD-55  
To use this tool you have to :

- Select your responder configuration or add a new one on the page [configurations](#).
- Fulfill metadata of the request
- Click on the button 'execute' to retrieve the document requested

**Simulator**

Name Imaging Document Consumer Simulator

IMG DOC CONS:SIMU

IMG DOC SRC:SUT

RAD-55 : WADO Retrieve

**System Under Test**

Name gazelle dcm4chee

System Name gazelle dcm4chee

URL http://gazelle.ihe.net/wado

configurations gazelle dcm4chee +

Affinity Domain IHE (XDS-Ib)

Transaction RAD-55

**WADO Retrieve request parameters**

Example of use with dcm4chee of gazelle : http://gazelle.ihe.net/wado?requestType=WADO&studyUID=2.16.124.113543.6004.101.103.20021117.190619.1&seriesUID=2.16.124.113543.6004.101.103.20021117.190619.1.001&objectUID=2.16.124.113543.6004.101.103.20021117.190619.1.001.001&contentType=image/jpeg

requestType *	WADO	studyUID *	3.6004.101.103.20021117.190619.1	seriesUID *	04.101.103.20021117.190619.1.001	objectUID *	01.103.20021117.190619.1.001.001
contentType	image/jpeg	charset	Enter some value	anonymize	<input type="checkbox"/>	annotation	Enter some value
rows		columns		region		windowCenter	
windowWidth		frameNumber		imageQuality		presentationUID	
presentationSeriesUID		transferSyntax	Enter some value				

Preview http://gazelle.ihe.net/wado?requestType=WADO&studyUID=2.16.124.113543.6004.101.103.20021117.190619.1&seriesUID=2.16.124.113543.6004.101.103.20021117.190619.1.001&objectUID=2.16.124.113543.6004.101.103.20021117.190619.1.001.001&contentType=image/jpeg

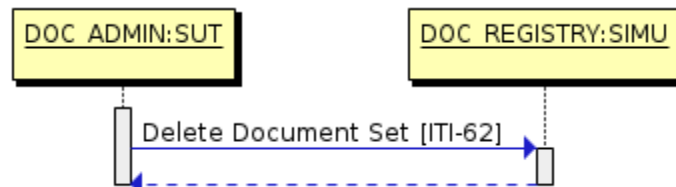
**Execute**

The attribute of the request are the same specified by dicom and restricted by IHE.

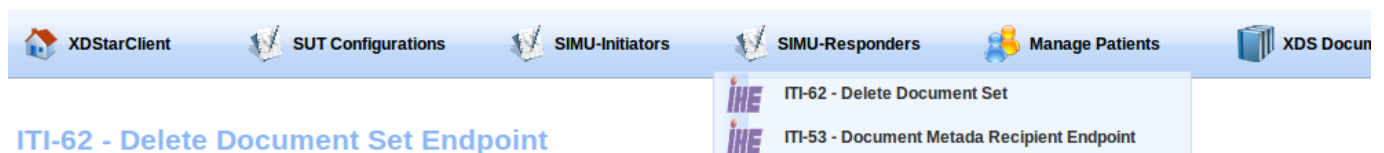
The validator of WADO request is integrated into XDStarClient. To validate a wado Request you have to refer to the validation of WADO request in EVSClient tool.

## 16 ITI-62 - Delete Document Set Responder

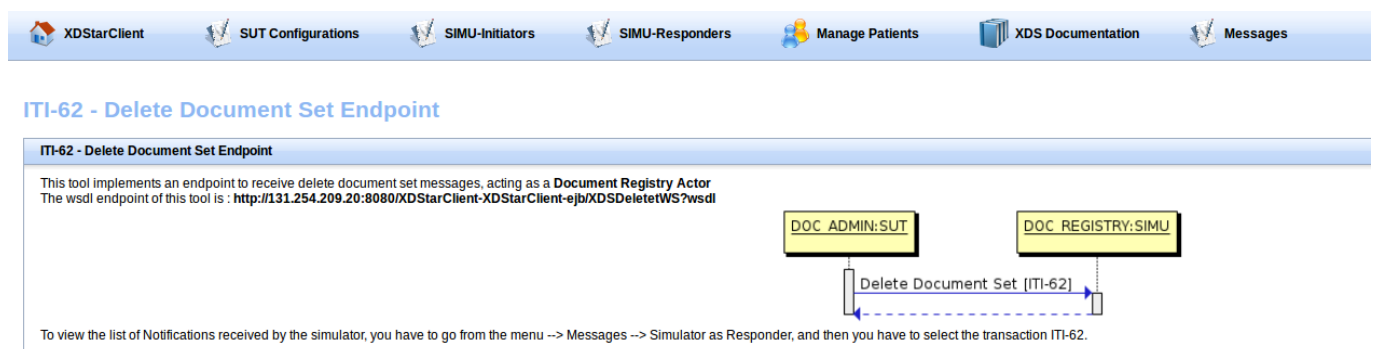
This tool implements an endpoint to receive delete document set messages, acting as a **Document Registry Actor**.



To go to the description of the transaction in XDStarClient, you have to go to : menu --> SIMU-Responders -> ITI-62 - Delete Document Set



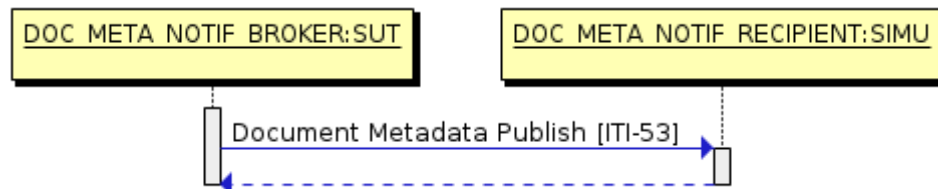
The wsdl used and acting as ITI-62 responder depend on the configuration of XDStarClient used, and is configured by the adminisatrator of the tool, and specified in the page of definition of the transaction in the tool :



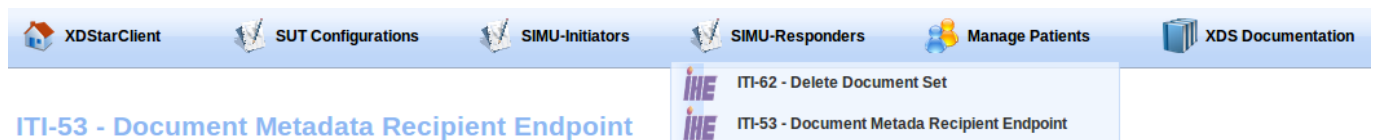
To view the list of request received by the simulator, you have to go from the menu --> Messages --> Simulator as Responder, and then you have to select the transaction ITI-62.

## 17 ITI-53 - Document Metada Recipient Endpoint

This tool implements an endpoint to receive metadatas notifications, acting as a **Document Metadata Notification Recipient**.



To go to the description of the transaction in XDStarClient, you have to go to : menu --> SIMU-Responders -> ITI-53 - Document Metada Recipient Endpoint



The wsdl used and acting as ITI-53 responder depend on the configuration of XDStarClient used, and is configured by the administratrator of the tool, and specified in the page of definition of the transaction in the tool :

### ITI-53 - Document Metadata Recipient Endpoint

**ITI-53 - Document Metadata Recipient Endpoint**

This tool implements an endpoint to receive metadatas notifications, acting as a **Document Metadata Notification Recipient**  
The wsdl endpoint of this tool is : <http://131.254.209.20:8080/XDStarClient-XDStarClient-ejb/DSUBRecipientWS?wsdl>

To view the list of Notifications received by the simulator, you have to go from the menu --> Messages --> Simulator as Responder, and then you have to select the transaction ITI-53.

To view the list of Notifications received by the simulator, you have to go from the menu --> Messages --> Simulator as Responder, and then you have to select the transaction ITI-53.

XDStarClient
SUT Configurations
SIMU-Initiators
SIMU-Responders
Manage Patients
XDS Documentation
Messages
Connexion CAS

XDSStarClient > Messages

**Messages Transactions**

affinityDomain: IHE (DSUB)
Message Type: Not defined
validRequest: Not defined
Envoyés/Reçus après:

transaction: ITI-53 (19)
IP address: Afficher tout
validResponse: Not defined
Et/ou avant:

Réinitialiser le filtre

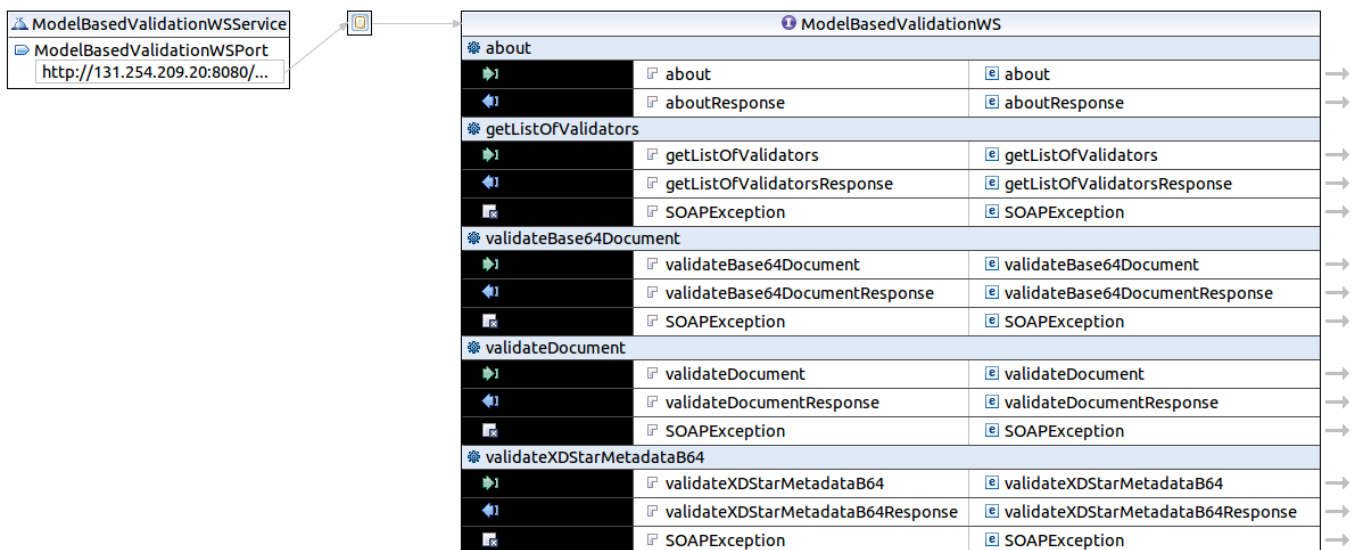
Id	TimeStamp	Transaction	AffinityDomain	MessageType	Requête	Réponse	Action
34	lundi 24 mars 2014 12:39:41	ITI-53	IHE (DSUB)		Notify		
33	lundi 24 mars 2014 12:37:59	ITI-53	IHE (DSUB)		Notify		
32	lundi 24 mars 2014 12:32:03	ITI-53	IHE (DSUB)		Notify		

## 18 XDS Metadata validation

XDStarClient provides a validation service for XDS metadata.

The validation tool is based on schema and model based validation, and sometimes for some kind of validation we use also the nist validation services.

The endpoint of the validation service depend on the XDStarClient installation environment, locally it will be <http://localhost:8080/XDStarClient-XDStarClient-ejb/XDSMetadataValidatorWS?wsdl>.



The documentation of XDS metadata constraints is available in XDStarClient GUI : menu -> Documentation -> [XDS Classes Documentation](#)

### List Classes of validation

List Classes of validation		
package/norm	Show ALL	X
Templates Number : 108		
name	package / norm	class type
XGRRRequestsSpec	xgrthe	ConstraintsSpecType
XDSSubmissionSetConstraints	rimthe	ConstraintsSpecType
XDSStableDocumentEntry	rimthe	TemplateSpecType
XDSOnDemandDocumentEntry	rimthe	TemplateSpecType
XDSDocEntry	xds68	TemplateSpecType
XDSFolderConstraints	rimthe	ConstraintsSpecType
XCFQueryRequest	xcf	TemplateSpecType
XCFAuthQuerySpec	xcf	ConstraintsSpecType
XCFAuthQuery	xcf	TemplateSpecType
Uniquetd_XDSFolder	rimthe	TemplateSpecType
Uniquetd_XDSDocumentEntry	rimthe	TemplateSpecType
Uniquetd_SubmissionSet	rimthe	TemplateSpecType
TypeCode_XDSDocumentEntry	rimthe	TemplateSpecType
StudySpec	radi@req	ConstraintsSpecType
SourceSet_SubmissionSet	rimthe	TemplateSpecType
RSCHEConstraints	rsqthe	ConstraintsSpecType
RESpec	EPSSOSXDRResp	ConstraintsSpecType
RetrieveResponseSpec6	CrossGatewayRetrieveError	ConstraintsSpecType
RetrieveResponseSpec5	RetrieveDocumentSetError	ConstraintsSpecType
RetrieveResponseSpec4	CrossGatewayQueryError	ConstraintsSpecType

## 19 AuditMessage Validation

XDStarClient provides a validation service for AuditMessages.

The validation tool is based on schema validation and model based validation, which is different from the model based validation of XDS metadata. The difference is, we do not define the constraints and the rules from a UML model, but from a GUI integrated into XDStarClient. This GUI describe the same table used by dicom and IHE to describe the elements that should be provided in an audit message. The edition of the constraint can be done from XDStarClient :

1. first you have to login as an administrator
2. then go to menu -> administration -> [Audit Messages Configurations](#)

ID	Nom	document	section	Action
37	deprecated - Identification Service Audit (Service Consumer)	WP3.4 Deliverable D3.4.2	3.2.2	[Edit] [Delete] [Add]
45	epSOS - ConsentService.Discard() Audit (Service Consumer)	WP3.4 Deliverable D3.4.2	3.6.2.7	[Edit] [Delete] [Add]
50	epSOS - ConsentService.Discard() Audit (Service Provider)	WP3.4 Deliverable D3.4.2	3.6.2.7	[Edit] [Delete] [Add]
47	epSOS - ConsentService.put() Audit (Service Consumer)	WP3.4 Deliverable D3.4.2	3.6.1.7	[Edit] [Delete] [Add]
40	epSOS - ConsentService.put() Audit (Service Provider)	WP3.4 Deliverable D3.4.2	3.6.1.7	[Edit] [Delete] [Add]

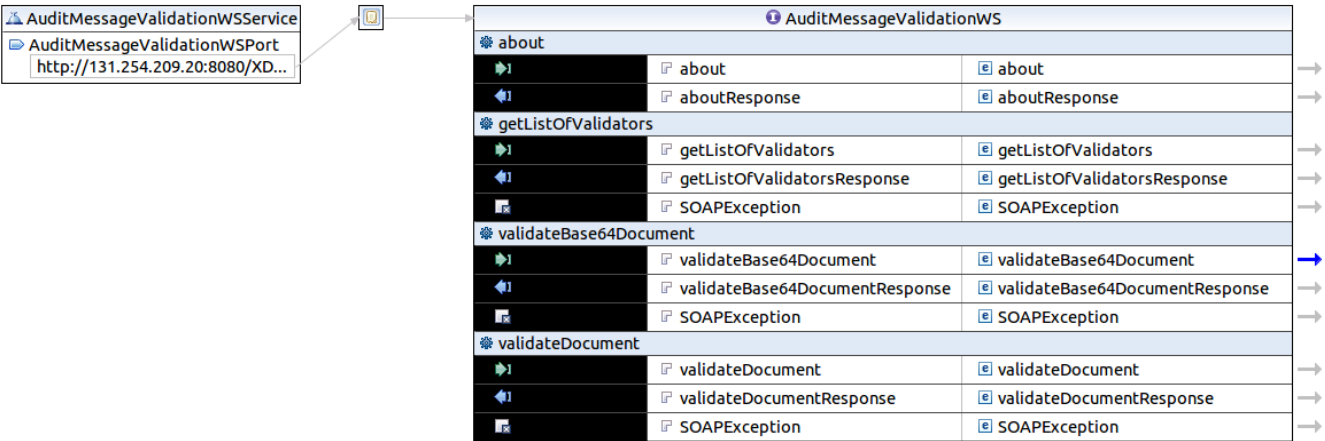
For a simple user, to view the list of constraint related to a kind of audit message, the user shall go to menu -> documentation -> [Audit Messages Documentation](#)

To view the specific constraints related to an audit message, you have to click on the message ID. Each audit message description has a unique permanent URL. Example : <http://gazelle.ihe.net/XDStarClient/amview/auditMessage.seam?id=45>

### Audit Message : IHE - ITI-53 DSUB Document Metadata Notification Broker audit message

Audit Message : IHE - ITI-53 DSUB Document Metadata Notification Broker audit message				
<b>Name</b>	IHE - ITI-53 DSUB Document Metadata Notification Broker audit message			
<b>Document reference</b>	IHE IT Infrastructure Technical Framework Supplement – Document Metadata Subscription (DSUB), Rev. 1.5 – 2012-08-31			
<b>Section</b>	3.53.5.1.2			
<b>Schema</b>	/opt/XDStarClient/xsd/RFC3881.xsd			
	Field Name	Opt.	value	Regex
Event	EventID	M	EV("110106", "DCM", "Export")	
	EventActionCode	M	R	
	EventDateTime	M		
	EventOutcomeIndicator	M		
	EventTypeCode	M	EV("ITI-53", "IHE Transactions", "Document Metadata Notify")	
<b>Source</b>	1 .. 1			
<b>Destination</b>	1 .. 1			
<b>Audit Source</b>	1 .. 1			
<b>Document</b>	1 .. *			
	Field Name	Opt.	value	Regex
Source	Distinguisher	RoleIDCode["@code="110153"]		
	UserID	M		
	AlternativeUserID	U		
	UserName	U		
	UsersRequestor	M	false	
	RoleIDCode	M	EV("110153", "DCM", "Source")	
	NetworkAccessPointTypeCode	M		^1 2\$
	NetworkAccessPointID	M		
	Field Name	Opt.	value	Regex
Destination	Distinguisher	RoleIDCode["@code="110152"]		
	UserID	C		
	AlternativeUserID	U		
	UserName	U		
	UsersRequestor	M	true	
	RoleIDCode	M	EV("110152", "DCM", "Destination")	
	NetworkAccessPointTypeCode	M		^1 2\$
	NetworkAccessPointID	M		

The wsdl has generally this format : <http://131.254.209.20:8080/XDStarClient-XDStarClient-ejb/AuditMessageValidatorWS?wsdl> and it is always provided by the administrator of the tool, it depends on the configuration of the server.





## 20 WADO validator

### 20.1 Gazelle WADO Validator

Gazelle WADO Validator is dedicated to the validation of WADO request message through SOAP web service calls.

The validation of WADO request can be performed against DICOM PS 3.18 or IHE RAD TF-3 (RAD-55 transaction) standards. Notice that perform a validation against IHE RAD TF-3 includes the validation against DICOM PS 3.18.

This validation service is available through a web service API so it can be integrated in your application. If you wish to validate messages occasionally you can use the Gazelle Validation Front-End called EVS Client which puts at your disposal a user interface to validate WADO requests, HL7 messages, CDA documents, XD\* requests and so on.

### 20.2 Web Service

The web service API of the tool offers three methods:

- validateDocument(): validates the given message and sends back a validation report
- about(): gives information about the running version of the tool
- getListOfValidators() : return the list of validator names. Each validator represent a standard against the message can be validated.

The definition of the web service API is available [here](#).

The validateDocument() method has the following prototype:

```
public String validateDocument(String, String) throws SOAPException ;
```

- The first parameter stands for the message to validate itself.
- The second parameter is the validator to use for validation. The available names list can be retrieve using getListOfValidators().

## 21 DSUB Validation

XDStarClient provides a validation service for DSUB messages.

The validation tool is based on schema and model based validation. The documentation of the constraint from the model of validation can be found on XDStarClient : menu -> Documentation -> [DSUB Classes Documentation](#).

List Classes of validation

List Classes of validation		
package/norm	Show All.	
Templates Number : 19		
name	package / norm	class type
UnsubscribeHeaderSpec	unsubscribeResp	ConstraintsSpecType
UnsubscribeBodySpec	unsubscribeResp	ConstraintsSpecType
UnsubscribeHeaderSpec	unsubscribeReq	ConstraintsSpecType
UnsubscribeBodySpec	unsubscribeReq	ConstraintsSpecType
SubscribeSpec	subscribeReq	ConstraintsSpecType
SubscribeSpec	subscribeResp	ConstraintsSpecType
SubscribeHeaderSpec	subscribeResp	ConstraintsSpecType
SubscribeEnvelopeSpec	subscribeResp	ConstraintsSpecType
SubscribeBodySpec	subscribeResp	ConstraintsSpecType
SubscribeNotifySpec	notifyReq	ConstraintsSpecType
SubscribeHeaderSpec	subscribeReq	ConstraintsSpecType
SubscribeEnvelopeSpec	subscribeReq	ConstraintsSpecType
SubscribeBodySpec	subscribeReq	ConstraintsSpecType
SubscribeSpec	subscribeReq	ConstraintsSpecType
NotifySpec	notifyReq	ConstraintsSpecType
NotifyHeaderSpec	notifyReq	ConstraintsSpecType
EnvelopeSpec	dsubcommon	ConstraintsSpecType
DSUBFirstQuery	subscribeReq	TemplateSpecType
BodySpecNotif	notifyReq	ConstraintsSpecType

The endpoint of the validation service depend on the XDStarClient installation environment, it will be like this : <http://131.254.209.20:8080/XDStarClient-XDStarClient-ejb/DSUBValidatorWS?wsdl>

