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***KEREVAL HEALTHLAB - Project IHE EUROPE*****User Guide*****External Validation Service Front-end – V4.x***

Version : 1.02

Date: 03/09/2014

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Function: Quality Assistant

Reference:

KER3-MAN-HEALTHLAB-EVSCIENT_USER-1.02

Status: approved



■ KEREVAL Approval

Name	Function	Date	Visa
Eric POISEAU	Lab Manager	03/09/2014	OK

■ Diffusion

Internal	Recipient	Date	Exemplary
KEREVAL	HealthLab	03/09/2014	Electronic version

External	Recipient	Date	Exemplary
EVSCClient users		03/09/2014	Electronic version

■ Document history

Version	Date	Author	Modifications
V0.01	02/09/2014	Thomas DOLOUE	Creation
V1.01	03/09/2014	Thomas DOLOUE	For review
V1.02	03/09/2014	Eric POISEAU	Approve

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1 External Validation Service Front-end

1.1 Introduction

This application has been developed with the purpose of aggregating in a same user interface, the access to all validation services developed for IHE. Services called are the following:

- Gazelle HL7 Validator for HL7v2.x and HL7v3 messages
- Schematron-based Validator (CDA, Audit messages, HL7v3, assertions...)
- Model-based validator for CDA
- Model-based validator for XD* messages
- Model-based validator for XDW
- Model-based validator for DSUB
- Model-based validator for SVS
- Model-based validator for HPD
- Certificates validation
- JHOVE for PDF files validation
- Dicom3Tools, DCMCHECK, Dcm4Che, Pixelmed for validating DICOM objects

In the menu bar of the user interface, we have chosen to sort the validators by affinity domains, currently to different affinity domains are available: IHE and epSOS.

Contents which can be validated using this tool are: HL7v2.x and HL7v3 messages, CDA documents, SAML assertions, ATNA audit messages, certificates, XD* messages, XDW documents and DICOM object.

Schematrons section allows the user to download the schematrons which are used to validate XML files. Those schematrons are sorted according to the type of object they validate.

1.2 Important notice

Note that when using the EVS Client application, if you are NOT logged in, every document/message that you validate is stored in our database, referenced and available to everybody. If you do not want to have your documents/messages public, then you need to log in using the "CAS login", it uses your Gazelle's ([EU-CAT](#)) credentials.

2 User Manual

The application External Validation Service Front-End can be used for validating the following objects:

- HL7 CDA files
- HL7v2.x and HL7v3 messages
- HPD messages
- SVS messages
- DSUB metadata
- SAML assertions
- Audit messages
- Certificates
- DICOM objects
- PDF files
- XD* messages (metadata)
- XDW documents

2.1 Note about the privacy of validation results

If the user is not log on the application, his/her validation requests and results (that means the document/message submitted to the tool and the validation outcome) are available to everybody. We say that the result is "public"; it will be listed in the list of validation requests and everybody will be able to access and download both the validated file and the validation report.

If the user is logged on the application, by default, his/her validation requests and results will be set as "private". That means that he/she will be the only one to see the validation requests in the list and to access it. A permanent link is created for each validation request, the ones leading to a private request have restricted permissions; only the owner of the validation requests (the one who performed the validation) will be able to access this page.

A logged on user can choose to have a given validation request available to everybody. In this case, everybody will be able to list the request and to access both the validated file and the validation report. To do so, once the validation is performed (or at any moment from the result page), click on the "Make this result public" button. At any time, the owner of the request (and only him/her) will be able to change back the visibility of the result to private.

A logged on user can choose to keep his/her validation request (file + result) private but to allow certain users to access it also. In this case, clicking on the "share this result" button will generate a random key which, added to the URL will ensure that only the persons who know the permanent link (including the key) will be able to access the content of the validation request. The owner of the validation request will still be the only one to see the result in the list gathering all results but everyone knowing the link will be allowed to display the page.

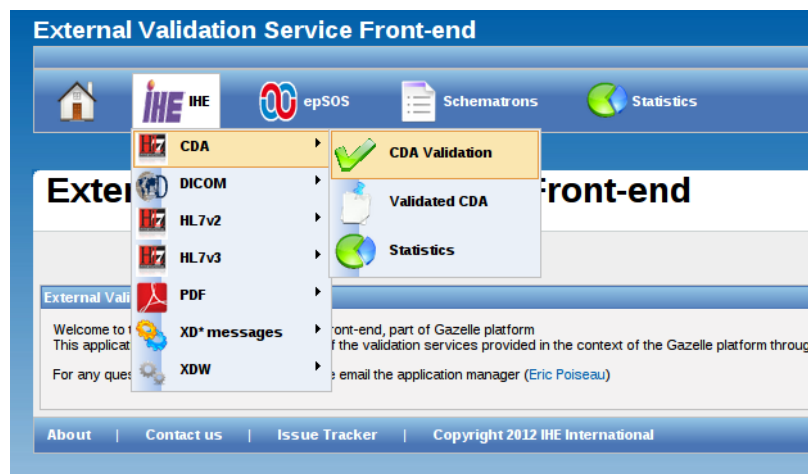
Note that the admin and monitor users are able to access all the validation requests. It's obvious that they were use them only for verification purposes and will not publish neither use them for other purposes.

2.2 Validate an XML file

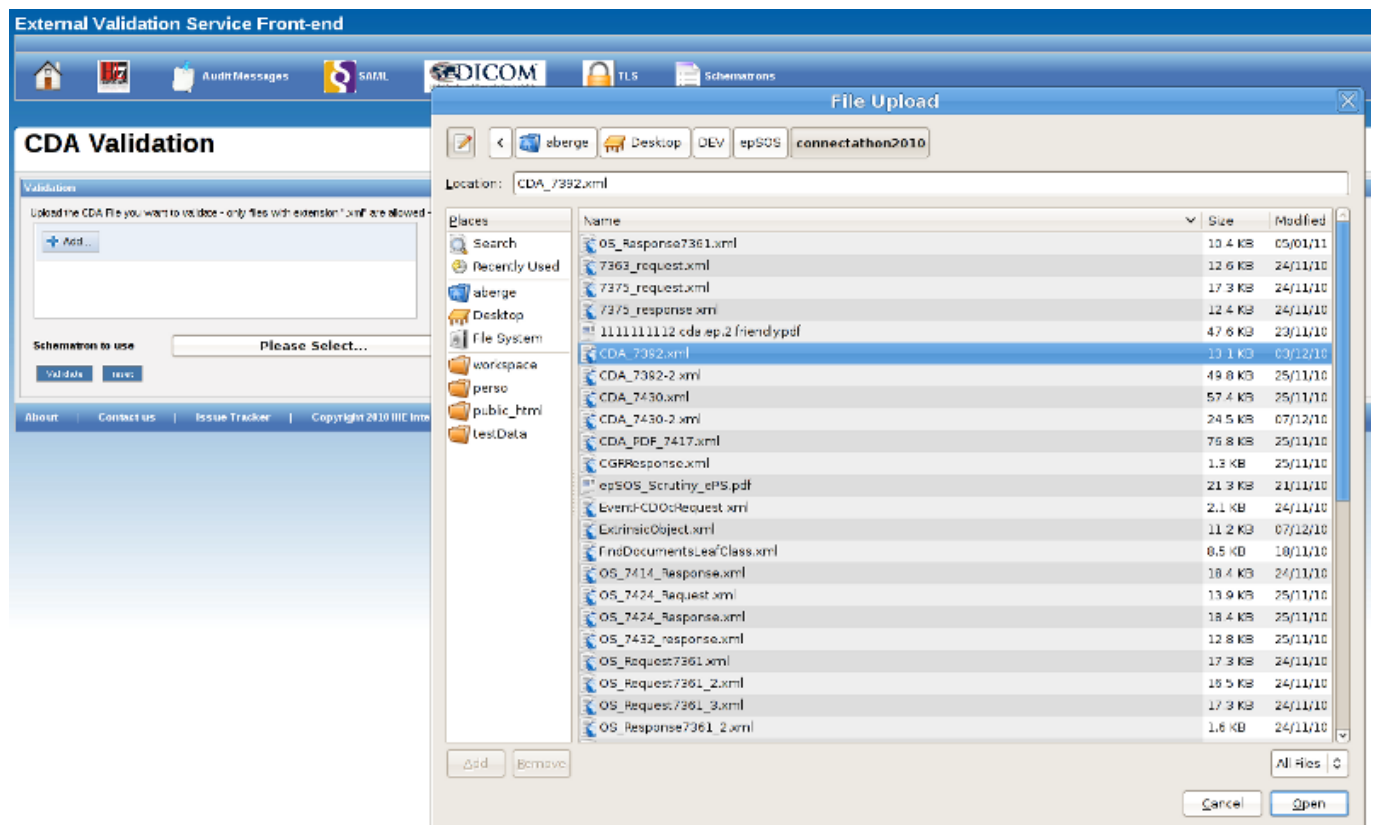
By XML file we mean all messages or documents based on XML (CDA, HL7v3 messages, XD* metadata ...) All those kinds of files can be validating using a schematron and/or a model-based validator. Once you have selected (in the top bar menu) the kind of XML object you want to validate, you will reach a page which ask you to upload the XML file to validate (be careful, the application allows only files with .xml extension) and to select the schematron and/or model-based validator to use.

Below is an example of the different steps for validating an XD-LAB report.

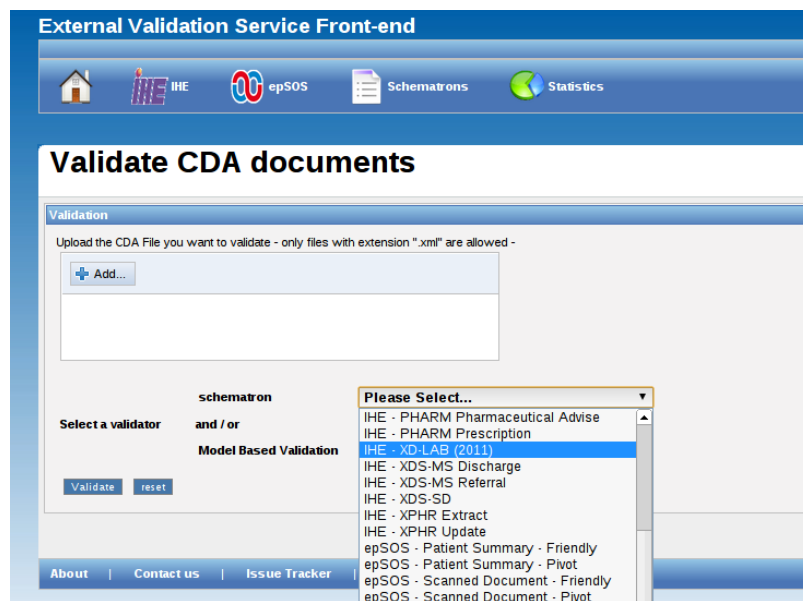
1. Select the menu CDA Validation in the IHE drop-down menu



2. Hit the "Add" button and select the XML file to validate in your system explorer



3. Select the schematron and/or a model-based validator to use in the drop-down list(s)



4. Finally, hit the "validate" button. After a while, the validation result will be displayed below the selection area.

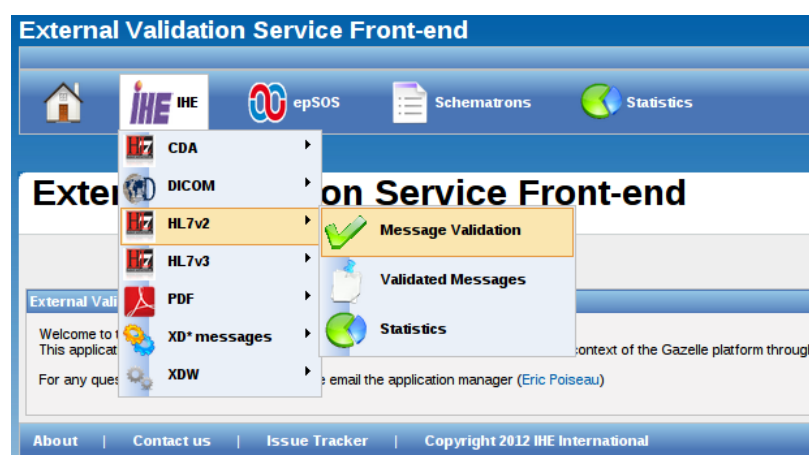
The validation result panel is divided into different panels :

"Download result" button enables you to download an XML file gathering the validation result. The relative stylesheet is provided [here](#).

"Information" gives information about the validated file, the validation date, the schematron used and the result of the validation. In this part, you will also find a permanent link to the current validation result. If you have asked for both schematron and model-based validation, two tabs will be displayed, one by validation result.

2.3 Validate an HL7v2.x message

1. Select the menu HL7v2 menu in the IHE drop-down menu



2. Upload or paste your message

Enter your message in the box (paste your message, ER7 format) OR upload the file containing your message (be careful, the application allows only files with .hl7 or .txt extension).

Validation

Enter your message in the box below (ER7 format) or upload the file containing your message (ER7 format)

```
MSH|^~\&|LIP Simulator|IHE|Label Broker|IHE|2011025142557||OML^O33^OML_Q33|2011025142557||P|2.5|||||UNICODE UTF-8
PID|||DDO-30914^^^DDO&1.3.6.1.4.1.12559.11.1.4.1.2&ISO||Tabary^Alexandre|Hubert||F||6Boulevard Jean Monnet^Vallieres-
sur-Marne|||||3496^^^LIP LIP Simulator&1.3.6.1.4.1.12559.11.1.2.2.6.1.1&ISO
PV1|||O
SPM|1|20120||001^ABS|||||P|||||021^Chemistry
ORC|NM|9120^LIP LIP Simulator^1.3.6.1.4.1.12559.11.1.2.2.6.1.3^ISO|9120^LIP LIP
Simulator^1.3.6.1.4.1.12559.11.1.2.2.6.1.2^ISO|||||2011025142557
TQ1|||||IR
ORR|9120^LIP LIP Simulator^1.3.6.1.4.1.12559.11.1.2.2.6.1.3^ISO|9120^LIP LIP
Simulator^1.3.6.1.4.1.12559.11.1.2.2.6.1.4^ISO|2856^blood^L|||||11226
```

[Add...](#)

Then, you must choose the HL7 message profile to use to validate your HL7 message. The "Guess profile" button, just below the box, can be used to guess automatically the HL7 message profile to use, it extracts fields MSH-9 and MSH-12 and filter on those values.

Finally, to launch the validation process, hit the ➡ on the right side of the line corresponding to the message profile to use.

External Validation Service Front-end CAS login

IHE epSOS Schematron Statistics

HL7v2 message Validation

Validation

Enter your message in the box below (ER7 format) or upload the file containing your message (ER7 format)

```
MSH|^~\&|PAMSsimulator|IHE|PAMSsimulator|IHE|20110818123620||ADT^A40^ADT_A39|20110818123620||P|2.5|||||UNICODE UTF-8
EVN||20110818123620|||||20110818123620
PID|||IS^^^DDO&1.3.6.1.4.1.12559.11.1.4.1.2&ISO^PT||Rosendaal^Patient5^*****L|Meyers^*****M|19761002|M||||&Tolweg
West^HellevortsLuis^3221XM^NLD|||||JAGN
MRG|4^^^DDO&1.3.6.1.4.1.12559.11.1.4.1.2&ISO^PI|||||Valen^Patient1^*****L
PV1|||N
```

[Add...](#)

In the table below, select the HL7 message profile which matches the characteristics of the message to validate or click the 'guess message profile' button to restrain the search depending of your message content [Show all message profiles](#)

Affinity Domain IHE	Domain IT-Infrastructure	Actor Show all	Transaction Show all	Message type ADT^A40^ADT_A39	HL7 version 2.5	Profile OID	Action
IHE	IT-Infrastructure	Patient Demographics Supplier	ITI-30	ADT^A40^ADT_A39	2.5	1.3.6.1.4.1.2559.11.1.1.40	➡
IHE	IT-Infrastructure	Patient Encounter Supplier	ITI-31	ADT^A40^ADT_A39	2.5	1.3.6.1.4.1.2559.11.1.1.69	➡

[Reset](#)