Question

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TCP and DICOM: Investigate service invocation options

Good morning,

We would appreciate your support:

Developing an integration to perform a "Query / Retrieve" circuit with DICOM medical imaging studies, we would need the following:

Options of invocation of the DICOM TCP service that has been published for this integration, alternatives to the command line option.

Specifically we have read: Receive DICOM document with an embedded PDF and metadata.

Adapting the example, we use the line:

```
./storescu -b VNAPRE -c ESBPRE@10.136.4.XYZ:19ABC ./embeddedpdf.dcm
```

By which we simulate the sending of a DICOM document with a PDF.

However, this is not fruitful, helpful or a solution, since what is currently needed is to simulate queries of type "FIND".

Specifically, we would need queries of the type "Get Results at Study level" StudyRootQuery - FIND or "Get Studies at Patient level" PatientRootQuery - FIND.

```
// StudyRootQuery - FIND
set tAffectedSOPClassUID="1.2.840.10008.5.1.4.1.2.2.1"
// PatientRootQuery - FIND
;set tAffectedSOPClassUID="1.2.840.10008.5.1.4.1.2.1.1"
```

We have investigated how to simulate the FIND: Query / Retrieve scenario calls.

In particular we tested from the Studio "Output" by sending the patient record in the "PatientID" field of the "DataSet" of the DICOM document:

do ##class(DICOM.BS.QueryService).TestFind("13168299")

And in this way we would simulate a call to the "dummy" Service whose class is: DICOM.BS.QueryService.

However, what are the options for invoking the DICOM TCP service that has been published for this integration?

Is there a SoapUI / POSTMAN / command line and/or visual tool, which allows us to simulate DICOM FIND commands via TCP ?

Thank you for reading us and for your answers

We have also read:

https://docs.intersystems.com/latest/csp/docbook/DocBook.UI.Page.cls?KEY...

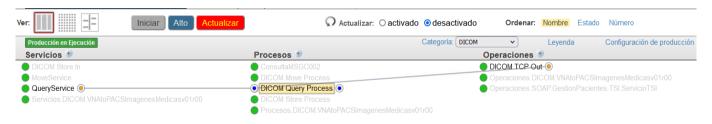
https://docs.intersystems.com/latest/csp/docbook/DocBook.UI.Page.cls?KEY...

https://docs.intersystems.com/latest/csp/docbook/DocBook.UI.Page.cls?KEY...

https://es.community.intersystems.com/post/dicom-no-hay-asociaci%C3%B3n-...

https://community.intersystems.com/post/dicom-tcp-services-and-dicom-imp...

At the visual level, we are now testing the circuit by means of a "dummy" Service, which class is: DICOM.BS.QueryService



However, we need to find a way to simulate being the source system, that is, to test the TCP service, being of the class: EnsLib.DICOM.Service.TCP



What options for invoking the DICOM TCP service that has been published for this integration, as an alternative to the command line option, would exist?

How would you do it?

Do you have examples, documentation, code, references or indications that could be used as support?

Thank you very much in advance, for your time and replies

Best regards

#Code Snippet #Ensemble

Source URL: https://community.intersystems.com/post/tcp-and-dicom-investigate-service-invocation-options