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Test case #14208 CH:mCSD_Directory

Test Summary

Keyword : CH:mCSD_Directory_CTS	Type : conformity assessment
Name : CH:mCSD_Directory	Peer Type : NO_PEER_TEST
Version : 1.1	Status : ready
Author : angelina.ker	Verified by : Not verified
Date of last 2025-06-24 17:18:09.461208 by angelina.ker	

Short Description : In this case, your system acting as a Directory must handle requests sent from a Query Client (simulator).

Test Description

Special Instructions

Prerequisite Test

The **Directory** must perform test [CH:mCSD_Load_Test_Data](#) to load test data (FHIR resources) on its system. This must be done prior to this test to ensure the directory is populated with entries (resources) used in the queries in this test.

The Directory must validate [CHIUA_BasicAccessToken](#) because CH:mCSD enforces authentication and authorization of access to the Directory using the IUA profile with basic access token (CH:mCSD v3.0.0 ITI-90 3.11.5).

XML vs JSON

For the [ITI-90] transaction, the Directory must support both JSON or XML message encodings (ITI TF-2c: 3.90.4.1.2) so requests will be sent indicating the 2 response formats.

GET vs POST

For the [ITI-90] transaction, the Directory must support search request based on both GET and POST (ITI TF-2c: 3.90.4.1.2) so requests will be sent using the 2 possibilities. However, the mechanism for retrieving a single Care Services Resource with a known resource identifier uses only HTTP GET (ITI TF-2c: 3.90.4.3).

Trace Context header

For all requests, the [HTTP traceparent](#) header is mandatory for the responder.

Description

In the CH:mCSD Profile, the Directory must support one or more of the different types of queries in the [ITI-90] transaction (CH:mCSD v3.0.0 ITI-90 3.11.4.1.1) :

- Query for Organization resources (ITI TF-2c: 3.90.4.1.2.2 and 3.90.4.2.2.1)
- Query for Practitioner resources (ITI TF-2c: 3.90.4.1.2.4, and 3.90.4.2.2.3)
- Query for PractitionerRole resources (3.90.4.1.2.5 and 2:3.90.4.2.2.4)

The requests will be sent to your SUT from Gazelle Webservice Tester. To execute this test:

1. Access Gazelle Webservice Tester ehealthswiss.ihe-europe.net/gazelle-webservice-tester/home.seam and log into the application.
2. Go to the menu "Run".
3. Select the test project name **CH:mCSD Directory - ITI-90** from the drop-down list.
4. Select test suite **NormalCases** by ticking the checkbox in front of its name.
5. Enter the URL of your system under test endpoint (shall be a secured endpoint).
6. Click on "Run" button.
7. Wait for the script to complete its execution.
8. When the script stops, copy the permanent link of the execution to the test step in Gazelle Test Management.

The conformance of the responses sent back by your system shall be assessed. In Gazelle Webservice Tester, for the steps not marked as [INTERNAL] nor [EVAL], validate the message in EVSClient. To do so:

1. Click on the play icon next to the response type,
2. You have been redirected to [EVSClient](#), select validator: **EPR > CH EPR FHIR** and hit the "Go" button,
3. Once the page of the validator opens, select the appropriate entry in the drop-down list and click on "Validate",
4. When the validation report shows up, a pop-up raises for returning the validation report to GWT, click on "OK".

Evaluation

- The status code of the response: HTTP 200 OK
- The validation in EVSClient must return **Passed**.

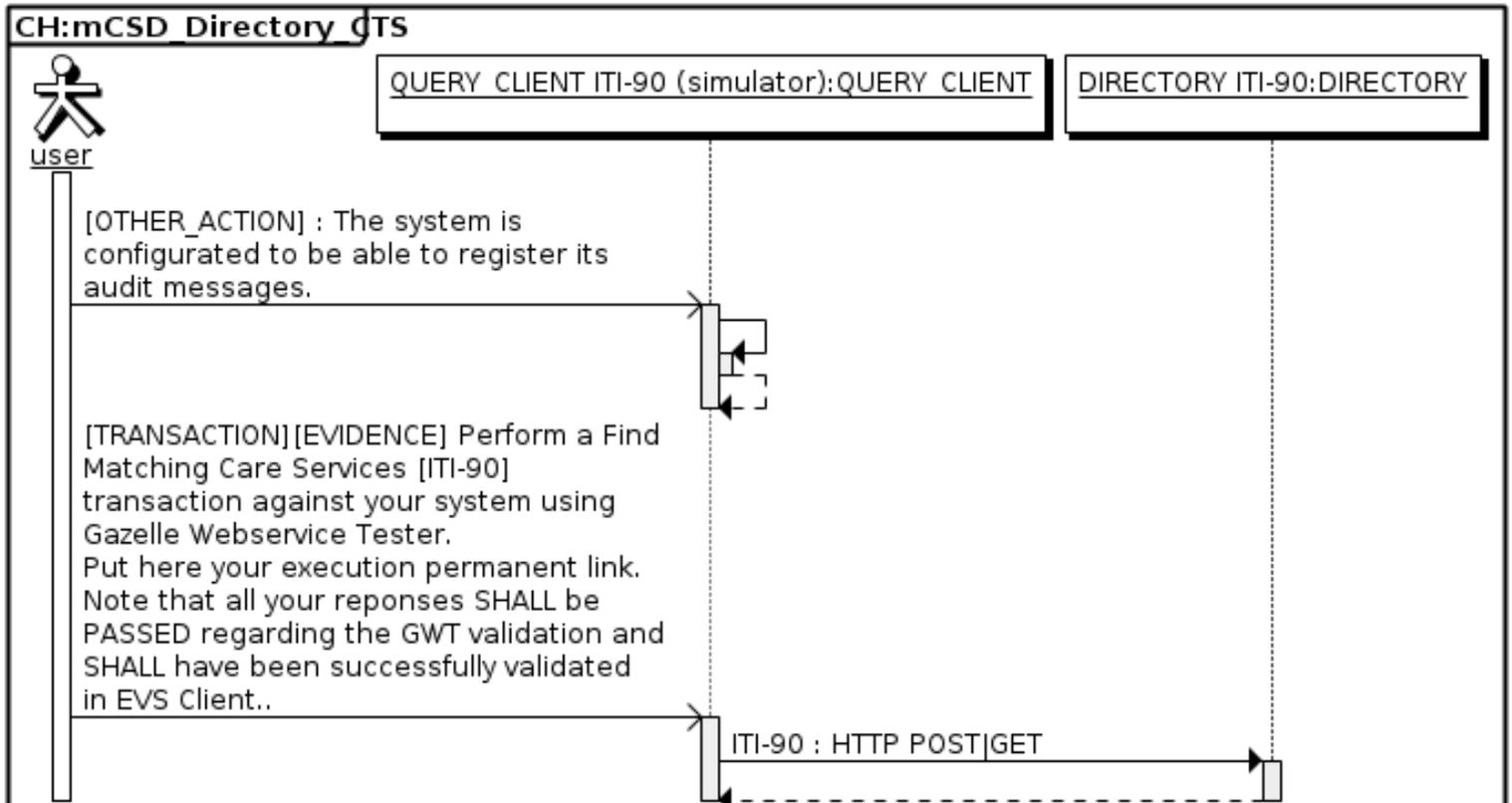
Test Participants

Role in test : DIRECTORY ITI-90 (SUT)		Option : R	Nb of instances : 1
Actor	Profile	Option	
DIRECTORY	CH: mCSD	NONE	
Role in test : QUERY_CLIENT ITI-90 (simulator) (Tool)		Option : R	Nb of instances : 1

Test Steps

Index	Initiator	Responder	Transaction	Message Type	Secured ?	Option	Description
10	QUERY_CLIENT ITI-90 (simulator)	QUERY_CLIENT ITI-90 (simulator)		INSTRUCTION	No	null	
[OTHER_ACTION] : The system is configured to be able to register its audit messages.							
20	QUERY_CLIENT ITI-90 (simulator)	DIRECTORY ITI-90	ITI-90	HTTP POST GET	No	Required	
[TRANSACTION][EVIDENCE] Perform a Find Matching Care Services [ITI-90] transaction against your system using Gazelle Webservice Tester. Put here your execution permanent link. Note that all your reponses SHALL be PASSED regarding the GWT validation and SHALL have been successfully validated in EVS Client..							

Sequence Diagram



Test case #14210 CH:mCSD_Directory_ErrorCases

Test Summary

Keyword : CH:mCSD_Directory_ErrorCases_CTS **Type :** conformity assessment
Name : CH:mCSD_Directory_ErrorCases **Peer Type :** NO_PEER_TEST
Version : 1.1 **Status :** ready
Author : angelina.ker **Verified by :** **Not verified**
Date of last 2025-06-24 17:23:50.727376 by angelina.ker

Short Description : In this case, your system acting as a Directory must handle requests sent from a Query Client (simulator). It must respond correctly to various error situations of ITI-90 according to CH:mCSD profile.

Test Description

Special Instructions

Prerequisite Test

The Directory must perform test [CH:mCSD_Load_Test_Data](#) to load test data (FHIR resources) on its system. This must be done prior to this test to ensure the directory is populated with entries (resources) used in the queries in this test.

The Directory must perform [CH:UUA_BasicAccessToken](#) because CH:mCSD enforces authentication and authorization of access to the Directory using the UUA profile with basic access token (CH:mCSD v3.0.0 ITI-90 3.11.5).

XML vs JSON

For the [ITI-90] transaction, the Directory must support both JSON or XML message encodings (ITI TF-2c: 3.90.4.1.2) so requests will be sent indicating the 2 response formats.

GET vs POST

For the [ITI-90] transaction, the Directory must support search request based on both GET and POST (ITI TF-2c: 3.90.4.1.2) so requests will be sent using the 2 possibilities. However, the mechanism for retrieving a single Care Services Resource with a known resource identifier uses only HTTP GET (ITI TF-2c: 3.90.4.3).

Trace Context header

For all requests, the HTTP [traceparent](#) header is mandatory for the responder.

Description

In the CH:mCSD Profile, the Directory must support one or more of the different types of queries in the [ITI-90] transaction (CH:mCSD v3.0.0 ITI-90 3.11.4.1.1):

- Query for Organization resources (ITI TF-2c: 3.90.4.1.2.2 and 3.90.4.2.2.1)
- Query for Practitioner resources (ITI TF-2c: 3.90.4.1.2.4, and 3.90.4.2.2.3)
- Query for PractitionerRole resources (3.90.4.1.2.5 and 2:3.90.4.2.2.4)

The requests will be sent to your SUT from Gazelle Webservice Tester. To execute this test:

1. Access Gazelle Webservice Tester ehealthswiss.ihe-europe.net/gazelle-webservice-tester/home.seam and log into the application.
2. Go to the menu "Run".
3. Select the test project name **CH:mCSD Directory- ITI-90** from the drop-down list.
4. Select test suite **ErrorCases** by ticking the checkbox in front of its name.
5. Enter the URL of your system under test endpoint (shall be a secured endpoint).
6. Click on "Run" button.
7. Wait for the script to complete its execution.
8. When the script stops, copy the permanent link of the execution to the test step in Gazelle Test Management.

Evaluation

- The status code of the response: HTTP 400 or 404.
- The validation in EVSClient must return **Passed**.

Test Participants

Role in test : DIRECTORY ITI-90 (SUT)			Option : R	Nb of instances : 1
Actor	Profile	Option		
DIRECTORY	CH: mCSD	NONE		

Test Participants

Role in test : QUERY_CLIENT ITI-90 (simulator) (Tool)

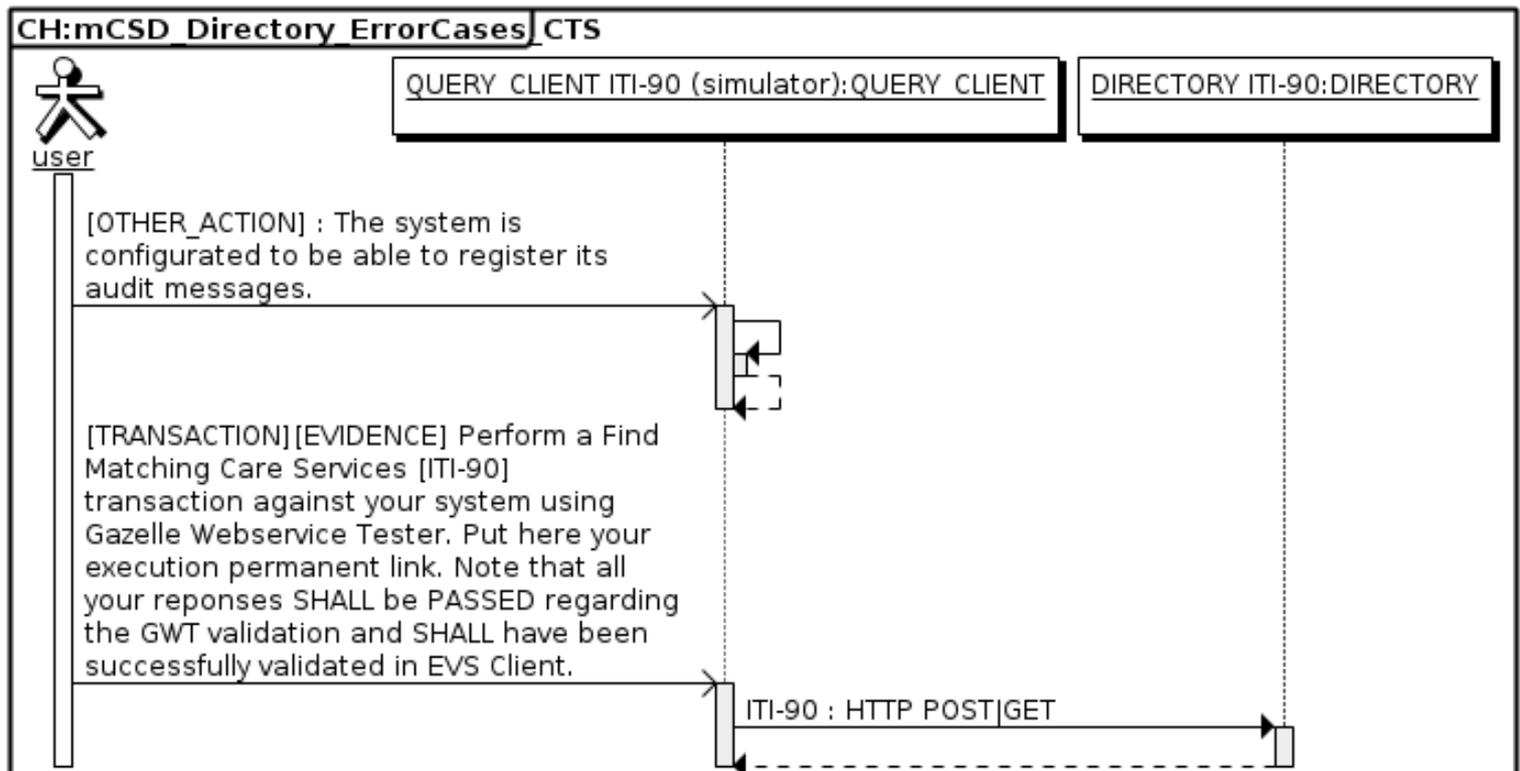
Option : R

Nb of instances : 1

Test Steps

Index	Initiator	Responder	Transaction	Message Type	Secured ?	Option	Description
10	QUERY_CLIENT ITI-90 (simulator)	QUERY_CLIENT ITI-90 (simulator)		INSTRUCTION	No	Required	
[OTHER_ACTION] : The system is configurated to be able to register its audit messages.							
20	QUERY_CLIENT ITI-90 (simulator)	DIRECTORY ITI-90	ITI-90	HTTP POST GET	No	Required	
[TRANSACTION][EVIDENCE] Perform a Find Matching Care Services [ITI-90] transaction against your system using Gazelle Webservice Tester. Put here your execution permanent link. Note that all your reponses SHALL be PASSED regarding the GWT validation and SHALL have been successfully validated in EVS Client.							

Sequence Diagram



Test case #14211 CH:mCSD_Load_Test_Data

Test Summary

Keyword : CH:mCSD_Load_Test_Data_CTS **Type :** conformity assessment
Name : CH:mCSD_Load_Test_Data **Peer Type :** NO_PEER_TEST
Version : 1.1 **Status :** ready
Author : angelina.ker **Verified by :** **Not verified**
Date of last 2025-06-24 17:24:29.024095 by angelina.ker

Short Description : mCSD Directory pre-loads FHIR Resources prior to Connectathon testing

Test Description

Special Instructions

This is not an actual "test". Rather it is a task that ensures that the **mCSD Directory** is loaded with the Resources and value sets that we will use as part of Connectathon testing.

Description

The instructions below apply to **mCSD Directory** systems.

(1) Connectathon FHIR Resources

In order to perform query testing with predictable results, the **Directory** system must be populated with the entries from pre-defined FHIR Resources:

- Organization
- Practitioner
- PractitionerRoles

These resources are available at these links:

- [mCSD-No-peer-Organization-SpitalX](#)
- [mCSD-No-peer-Practitioner-DrAndrews](#)
- [mCSD-No-peer-Practitioner-DrMeier](#)
- [mCSD-No-peer-Practitioner-DrReynolds](#)
- [mCSD-No-peer-PractitionerRole-AnnAndrewsSpitalXOsteopathie](#)
- [mCSD-No-peer-PractitionerRole-HansMeierSpitalX](#)
- [mCSD-No-peer-PractitionerRole-RichardReynoldsSpitalX](#)
- [mCSD-No-peer-mcsd-Organization-SpitalX-Osteopathie](#)

(2) Additional Resources

The pre-defined Connectathon test data are limited in scope. We expect Directories to be populated with additional Organization, Provider, Facility & Service Resources. We give no specific guidance on the number of Resources, but we are looking for a more realistic database. Good entries offer better testing opportunities.

Evaluation

There are no result files to upload into Gazelle Test Management for this test.

Test Participants

Role in test : DIRECTORY ITI-90 (SUT)

Option : R

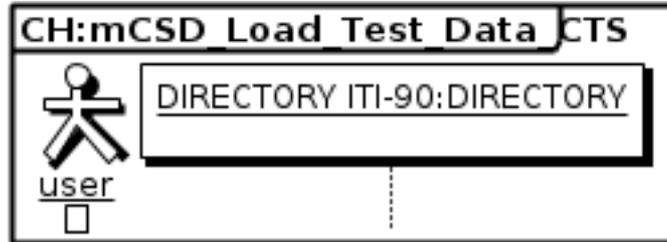
Nb of instances : 1

Actor	Profile	Option
DIRECTORY	CH: mCSD	NONE

Test Steps

Index	Initiator	Responder	Transaction	Message Type	Secured ?	Option	Description
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Sequence Diagram



Test case #14209 CH:mCSD_QueryClient

Test Summary

Keyword : CH:mCSD_QueryClient_CTS
Name : CH:mCSD_QueryClient
Version : 1.0
Author : angelina.ker
Date of last 2025-06-24 17:22:45.325515 by angelina.ker
Type : conformity assessment
Peer Type : NO_PEER_TEST
Status : ready
Verified by : **Not verified**

Short Description : In this case, your system acting as a Query Client must send requests to a Directory (simulator) to find and retrieve care services resources.

Test Description

Special Instructions

Prerequisite Test

The **Query Client** must perform [CH:IUA_BasicAccessToken](#) because CH:mCSD enforces authentication and authorization of access to the Directory using the IUA profile with basic access token ([CH:mCSD v3.0.0 ITI-90 3.11.5](#)).

XML vs JSON

For the [ITI-90] transaction, the Query Client may choose to support either JSON or XML, or both, for the response encoding ([ITI TF-2c: 3.90.4.1.2](#)) so the Query Client shall indicate its preference for response format as described in [ITI TF-2: Appendix Z.6](#).

GET vs POST

For the [ITI-90] transaction, the Query Client may choose to support search request based either on GET or POST, or both ([ITI TF-2c: 3.90.4.1.2](#)) so the Query Client can use GET or POST to initiate search requests. However, to retrieve a single resource with a known resource identifier, the Query Client must use GET to initiate the request ([ITI TF-2c: 3.90.4.3](#)).

Description

In the CH:mCSD Profile, the Query Client must support one or more of the different types of queries in the [ITI-90] transaction ([CH:mCSD v3.0.0 ITI-90 3.11.4.1.1](#)):

- Query for **Organization** resources ([ITI TF-2c: 3.90.4.1.2.2](#) and [3.90.4.2.2.1](#))
- Query for **Practitioner** resources ([ITI TF-2c: 3.90.4.1.2.4](#), and [3.90.4.2.2.3](#))
- Query for **PractitionerRole** resources ([3.90.4.1.2.5](#) and [2:3.90.4.2.2.4](#))

Requests performed during tests where your system should act as a Query Client can be recorded by Gazelle Proxy if a channel is available.

You'll need to request the Directory server available : <https://ehealthsuisse.ihe-europe.net/mcsd-simulator/fhir/ch/>

All the request should return at least 1 Entry in the returned SearchSets.
There is no need to validate your query in EVS Client, your validation report is available in the response's Header parameter named "HTTP-Validation-URL".

The Query Client shall support at least 1 of the 3 mCSD resources. So you'll need to test and validate at least 1 of the following groups :

Evaluation

A result **Passed** is required, the status code of the response sent by the simulator is: http 200.

Test Participants

Role in test : DIRECTORY (simulator) (Tool)

Option : R

Nb of instances : 1

Test Participants

Role in test : QUERY_CLIENT ITI-90 (SUT)		Option : R	Nb of instances : 1
Actor	Profile	Option	
QUERY_CLIENT	CH: mCSD	NONE	

Test Steps

Index	Initiator	Responder	Transaction	Message Type	Secured ?	Option	Description
10	QUERY_CLIENT ITI-90	QUERY_CLIENT ITI-90		Instruction	No	Required	[INSTRUCTION] The Query Client SHALL implement at least 1 of the 3 FHIR resources requests (Organization, Practioner, PractionerRole) either in GET or POST. One of the 3 groups below SHALL be tested (i.e. 110, 120, & 130 if the Query Client implements the resource Organization).
110	QUERY_CLIENT ITI-90	DIRECTORY (simulator)	ITI-90	HTTP GET POST	No	Optional	[INSTRUCTION][EVIDENCE] Search for all Organization resources. The mCSD Query Client sends an empty Organization search request to the mCSD Directory. The later should return all the known organizations. Upload in this test step the validation report as a proof of test (you can find it in the response header in the parameter HTTP-Validation-URL).
120	QUERY_CLIENT ITI-90	DIRECTORY (simulator)	ITI-90	HTTP POST GET	No	Optional	[INSTRUCTION][EVIDENCE] Search for Organization resources whose name contains "Osteopathie". The mCSD Query Client sends an Organization whose name contains "Osteopathie" search request to the mCSD Directory. The later should return all organizations whose name contains "Osteopathie". Upload in this test step the validation report as a proof of test (you can find it in the response header in the parameter HTTP-Validation-URL).
130	QUERY_CLIENT ITI-90	DIRECTORY (simulator)	ITI-90	HTTP GET	No	Optional	[INSTRUCTION][EVIDENCE] Retrieve the Organization found in Step 120. The mCSD Query Client sends an Organization retrieve request to the mCSD Directory. The later should return the organization in question. Upload in this test step the validation report as a proof of test (you can find it in the response header, in the parameter HTTP-Validation-URL).
210	QUERY_CLIENT ITI-90	DIRECTORY (simulator)	ITI-90	HTTP POST GET	No	Optional	[INSTRUCTION][EVIDENCE] Search for all practitioner resources. The mCSD Query Client sends an empty practitioner search request to the mCSD Directory. The later should return all the known practitioner. Upload in this test step the validation report as a proof of test (you can find it in the response header in the parameter HTTP-Validation-URL).
220	QUERY_CLIENT ITI-90	DIRECTORY (simulator)	ITI-90	HTTP POST GET	No	Optional	[INSTRUCTION][EVIDENCE] Search for practitioner resources whose family name is exactly "Andrews". The mCSD Query Client sends a practitioner with name "Andrews" search request to the mCSD Directory. The later should return all the known practitioner. Upload in this test step the validation report as a proof of test (you can find it in the response header in the parameter HTTP-Validation-URL).
230	QUERY_CLIENT ITI-90	DIRECTORY (simulator)	ITI-90	HTTP GET	No	Optional	

Test Steps							
Index	Initiator	Responder	Transaction	Message Type	Secured ?	Option	Description
Retrieve the Practitioner found it step 220. The mCSD Query Client sends a practitioner retrieve request to the mCSD Directory. The later should return the practitioner in question. Upload in this test step the validation report as a proof of test (you can find it in the response header, in the parameter HTTP-Validation-URL).							
310	QUERY_CLIENT_ITI-90	DIRECTORY (simulator)	ITI-90	HTTP POST GET	No	Optional	[INSTRUCTION][EVIDENCE] Search for all practitioner role resources. The mCSD Query Client sends an empty practitioner role search request to the mCSD Directory. The later should return all the known practitioner roles. Upload in this test step the validation report as a proof of test (you can find it in the response header in the parameter HTTP-Validation-URL).
320	QUERY_CLIENT_ITI-90	DIRECTORY (simulator)	ITI-90	HTTP POST GET	No	Optional	Search for PractitionerRole resources whose role is "309343006" (Physician). The mCSD Query Client sends a practitioner role search request to the mCSD Directory. The later should return all known practitioner roles whose roles are "309343006" (Physician) . Upload in this test step the validation report as a proof of test (you can find it in the response header in the parameter HTTP-Validation-URL).
330	QUERY_CLIENT_ITI-90	DIRECTORY (simulator)	ITI-90	HTTP POST	No	Optional	Retrieve the 2 PractionerRole resources found at Step 320. The mCSD Query Client sends a practitioner role retrieve request to the mCSD Directory. The later should return the practitioner role in question. Upload in this test step the validation report as a proof of test (you can find it in the response header, in the parameter HTTP-Validation-URL).

Sequence Diagram

