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## Test case #13201 CHPIX\_CHPDQ\_SERVER\_CONF

### Test Summary

**Keyword :** CHPIX\_CHPDQ\_SERVER\_CONF **Type :** conformity assessment  
**Name :** CHPIX\_CHPDQ\_SERVER\_CONF **Peer Type :** NO\_PEER\_TEST  
**Version :** 1.0 **Status :** ready  
**Author :** aberge **Verified by :** NicolasBailliet  
**Date of last :** 2019-06-17 16:59:57.789354 by NicolasBailliet

**Short Description :** This is a preliminary test for CH:PDQv3 suppliers and CH:PIXV3 managers. The goal is to populate the system under test with a well-known set of patient data.

### Test Description

#### Special Instructions

PIX Managers and PDQ Suppliers run only **one** instance of this test. The purpose of this test is to make sure your system is filled with a set of well-known patients which are going to be used in the next steps for this testing session.

Load patient demographics provided in advance by the Patient Manager.

1. [Log into the tool using your Gazelle credentials.](#)
2. Create a new entry in the list of HL7v3 responders (**SUT Configurations --> HL7v3 responders**). As configuration name, use your system's keyword prefixed by PDQPDS\_.
3. If your system only supports a sub set of the affinity domains used by the tool to identify the patients, select the assigning authorities for which your system will receive identifiers under **SUT Configurations --> SUT's assigning authorities**
4. These demographics will be provided to you in Patient Manager under menu **Connectathon-->Patient Demographics**
5. Click on Send selected patients to SUT's in the header of the **Actions** column
6. Select your SUT and send the messages

#### Evaluation

The monitor shall check that your database is populated and that your system's configuration is entered into the Gazelle Patient Manager tool (pay attention to IP address and port to make sure that the contacting system is the one we are testing).

### Test Participants

**Role in test :** PIX\_Mgr\_or\_PDQ\_Supplier (SUT)

**Option :** R

**Nb of instances :** 1

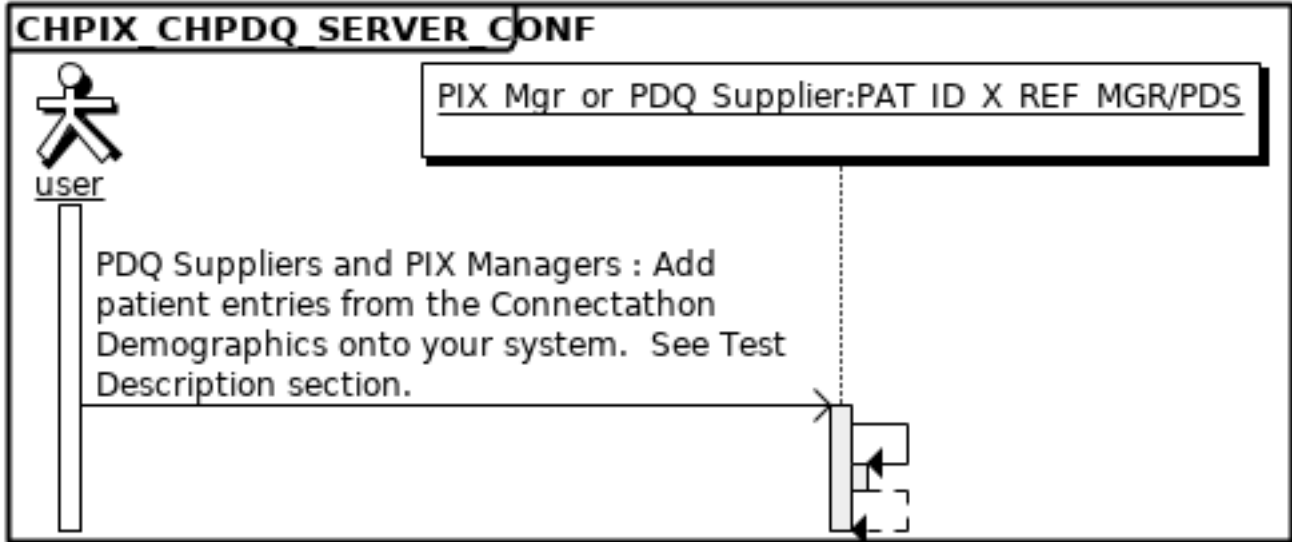
Actor	Profile	Option
PDS	PDQ	NONE
PAT_ID_X_REF_MGR	PIX	NONE
PDS	PDQV3	NONE
PAT_ID_X_REF_MGR	PIXV3	NONE
PAT_ID_X_REF_MGR	CH:PIXV3	NONE
PDS	CH:PDQV3	NONE

### Test Steps

Index	Initiator	Responder	Transaction	Message Type	Secured ?	Option	Description
30	PIX_Mgr_or_PDQ_Supplier	PIX_Mgr_or_PDQ_Supplier		--	No	Required	

PDQ Suppliers and PIX Managers : Add patient entries from the Connectathon Demographics onto your system. See Test Description section.

### Sequence Diagram



# Test case #13210 CHPIXV3\_CONS\_ITI-45

## Test Summary

**Keyword :** CHPIXV3\_CONS\_ITI-45 **Type :** conformity assessment  
**Name :** CHPIXV3\_CONS\_ITI-45 **Peer Type :** NO\_PEER\_TEST  
**Version :** 1.1 **Status :** ready  
**Author :** aberge **Verified by :** NicolasBailliet  
**Date of last :** 2022-04-07 08:46:32.347224 by vhofman

**Short Description :** This test checks the ability of the CH:PIXV3 Patient Identifier Cross-Reference Consumer actor to query for patient identifiers (ITI-45).

## Test Description

### Special Instructions

This test will be run against the Gazelle Patient Manager tool acting as a PIXV3 Patient Identifier Cross-Reference Manager.

In addition, the messages your system under test exchanged with the tool will be captured and validated against the Gazelle HL7 Validator (model-based validation engine).

### Description

The purpose of this test is to check that your CH:PIXV3 Consumer can send a correct PIXV3 query message (Patient Registry Get Identifiers Query : PRPA\_IN201309UV02) and correctly handles the result.

The local assigning authority is said to be CHFACILITY (OID: 1.3.6.1.4.1.12559.11.25.1.19). The community has assigning authority named CHPAM (OID: 1.3.6.1.4.1.12559.11.20.1).

You need first to configure your system to connect to Patient Manager. The endpoint of the PIXv3 Patient Identifier Cross-Reference Manager actor is available under PIX\* > Patient Identifier Cross-Reference Manager > HL7v3 Configuration.

You shall then be logged to access the messages your system will exchanged with the tool.

Execute the test step as described in the next section.

For each step, you are requested to provide the permanent link to the message exchanged with the simulator. Those are available from the menu **HL7 messages**. To facilitate your search, you can filter by SUT IP address in "Initiator" column. Once you have find your message,

1. Click on the play icon next to the request message type to trigger the validation of the message sent by your system. We expect the outcome of the validation to be PASSED.
2. Right-click on the magnifying glass icon (last column) and copy/paste the permanent link in the test step using the "Add link" feature.
3. If you have the ability to do so in your system, upload a screenshot of the result received by your system, demonstrating that your system correctly integrates the response from the simulator.

## Evaluation

The monitor will check that

- all the messages produced by your system under test successfully pass the validation against the tool. Validation status shall be "PASSED" (green checked is displayed in the message list)
- the received informations are integrated and displayed by the system under test

## Test Participants

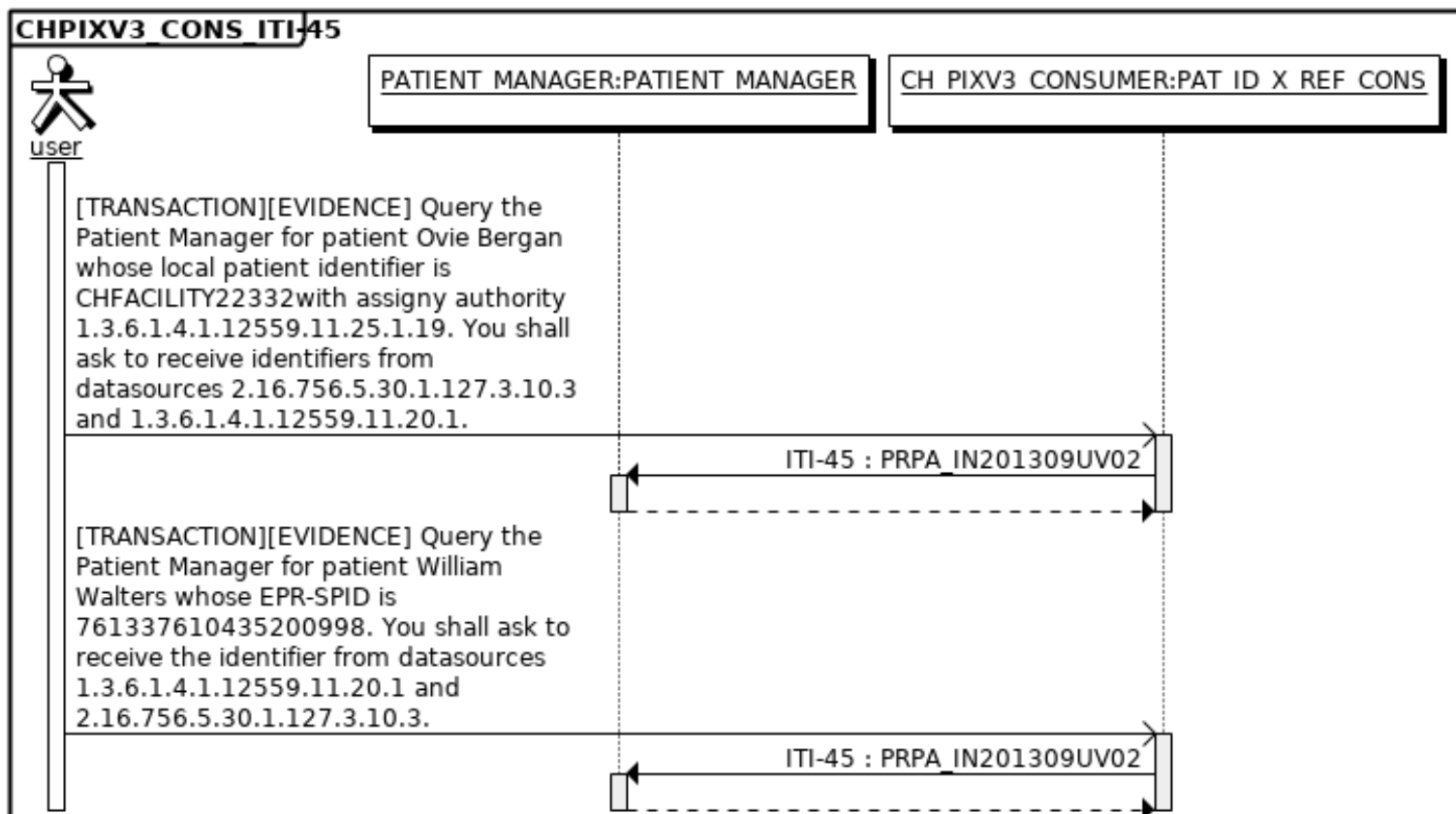
Role in test : CH_PIXV3_CONSUMER (SUT)			Option : R	Nb of instances : 1
Actor	Profile	Option		
PAT_ID_X_REF_CONS	CH:PIXV3	NONE		

Role in test : PATIENT_MANAGER (Tool)			Option : R	Nb of instances : 1
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**Test Steps**

Index	Initiator	Responder	Transaction	Message Type	Secured ?	Option	Description
1	CH_PIXV3_CONSUMER	PATIENT_MANAGER	ITI-45	PRPA_IN201309UV02	No	Required	[TRANSACTION][EVIDENCE] Query the Patient Manager for patient Ovie Bergan whose local patient identifier is CHFACILITY22332with assigny authority 1.3.6.1.4.1.12559.11.25.1.19. You shall ask to receive identifiers from datasources 2.16.756.5.30.1.127.3.10.3 and 1.3.6.1.4.1.12559.11.20.1.
11	CH_PIXV3_CONSUMER	PATIENT_MANAGER	ITI-45	PRPA_IN201309UV02	No	Required	[TRANSACTION][EVIDENCE] Query the Patient Manager for patient William Walters whose EPR-SPID is 761337610435200998. You shall ask to receive the identifier from datasources 1.3.6.1.4.1.12559.11.20.1 and 2.16.756.5.30.1.127.3.10.3.

**Sequence Diagram**



# Test case #13213 CHPIXV3\_MGR\_CONF

## Test Summary

**Keyword :** CHPIXV3\_MGR\_CONF **Type :** conformity assessment  
**Name :** CHPIXV3\_MGR\_CONF **Peer Type :** NO\_PEER\_TEST  
**Version :** 1.1 **Status :** ready  
**Author :** aberge **Verified by :** NicolasBailliet  
**Date of last :** 2022-06-21 10:47:09.306157 by vhofman

**Short Description :** The purposes of this test are first to demonstrate that your system acting as CH:PIXV3 Patient Identifier Cross-Reference Manager can be configured to access feeds from specific patient identity source systems and then to actually configure your system to access feeds from the testing tool.

## Test Description

### Special Instructions

Run only one instance of this test.

### Description

The Technical Framework identifies parameters which must be configurable on the Patient Identifier Cross-reference Manager. In this test, the Monitor observes that this configuration is supported.

In addition, configure your system under test to be able to receive the feeds from the following Patient Identity Source:

- Sender device id = 1.3.6.1.4.1.12559.11.25.1.11, sender organization id = 1.3.6.1.4.1.12559.11.25.1.12. IP address is the one of the test environment.
- Assigning Authority's name 1: CHPAM
- Assigning Authority's OID 1: 1.3.6.1.4.1.12559.11.20.1
- Assigning Authority's name 2 : SPID
- Assigning Authority's OID 2 : 2.16.756.5.30.1.127.3.10.3

Also configure your system to notify the Patient Manager tool (acting as Patient Identifier Consumer) of any update for the CHPAM domain. Configuration (endpoint, OIDs) of this simulator is available in Patient Manager under PIX\* > Patient Identity Consumer > HL7v3 configuration.

### Evaluation

The PIX Manager shall demonstrate for the Monitor:

(1) How it configures the Patient Identity Source for each Identification Domain it supports, eg this might be the IP addr of the Patient Identity Source or any other mean to identify the source system (only one source per domain, but a single source may service multiple domains) (ITI TF-2b:3.44.4.1.3)

(2) How it configures the Identifier (Assigning Authority) for each domain. One of the following:

- The Patient Identity Source sends the value for Assigning Authority:
- HLv3: in the "id" attribute of the PRPA\_HD201301IHE Patient Activate/Revise message

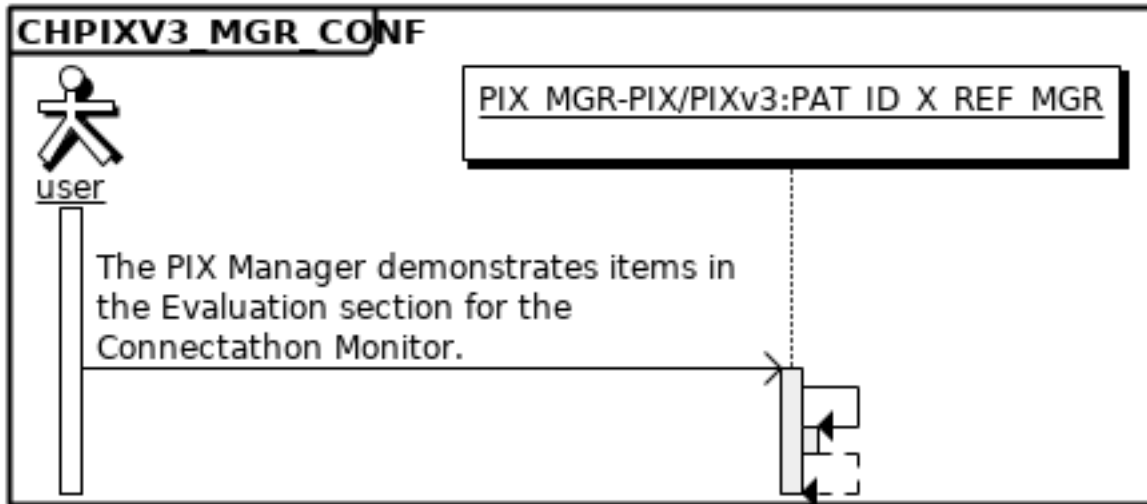
## Test Participants

Role in test : PIX_MGR-PIX/PIXv3 (SUT)		Option : R	Nb of instances : 1
Actor	Profile	Option	
PAT_ID_X_REF_MGR	PIX	NONE	
PAT_ID_X_REF_MGR	PIXV3	NONE	
PAT_ID_X_REF_MGR	CH:PIXV3	NONE	

## Test Steps

Index	Initiator	Responder	Transaction	Message Type	Secured ?	Option	Description
10	PIX_MGR-PIX/PIXv3	PIX_MGR-PIX/PIXv3		NONE	No	Required	The PIX Manager demonstrates items in the Evaluation section for the Connectathon Monitor.

## Sequence Diagram



# Test case #13212 CHPIXV3\_MGR\_ITI-44

## Test Summary

**Keyword :** CHPIXV3\_MGR\_ITI-44  
**Name :** CHPIXV3\_MGR\_ITI-44  
**Version :** 1.1  
**Author :** aberge  
**Date of last :** 2022-04-07 13:43:15.382124 by vhofman  
**Type :** conformity assessment  
**Peer Type :** NO\_PEER\_TEST  
**Status :** ready  
**Verified by :** NicolasBailliet

**Short Description :** This test checks the ability of the CH:PIXV3 Patient Identifier Cross-Reference Manager to integrate the messages exchanged in the context of the Patient Identity Feed HL7v3 (ITI-44) transaction: add record, revise record and resolve duplicates.

## Test Description

### Special Instructions

You shall have run [CHPIXV3\\_MGR\\_CONE](#) as a pre-requisite to this test so that your system is already configured.

This test is run using the Gazelle Patient Manager tool acting as a PIXV3 Patient Identity Source and PIXV3 Patient Identity Cross-Reference Consumer.

The messages your system under test exchanges with the tool will be captured and validated against the Gazelle HL7 Validator (model-based validation engine).

### Description

The purpose of this test is to check the ability of your system to integrate the PIXV3 Feed messages. The add record, revise record and duplicates resolved operations are in the scope of this test.

If it is your first test against the Patient Manager tool, enter the configuration of your system:

1. Log into the application
2. Go to SUT Configurations > HL7v3 responders and click on "Create a new configuration" at the bottom of the page.
3. Fill out the form, the keyword for the configuration shall be PIXMGR\_{YOUR\_SYSTEM\_KEYWORD}

Once the simulator knows the configuration of your system, go to PIX\* > Patient Identity Source > [ITI-44] Patient Identity Feed HL7v3. Select your system under test in the drop-down list and follow the instructions from the "Test steps" section.

For each ITI-44 step, you are requested to provide the permanent link to the message exchanged with the simulator. Once the simulator has received the response from your system, a report is displayed at the bottom of the page. Scroll down to this section, ,

1. Click on the play icon next to the response message type to trigger the validation of the message sent by your system. We expect the outcome of the validation to be PASSED.
2. Right-click on the magnifying glass icon (last column) and copy/paste the permanent link in the test step using the "Add link" feature.
3. Upload a screenshot of the result received by your system, demonstrating that your system correctly integrates the request from the simulator

Finally you will use Patient Manager to query your system and thus confirm that the patients have been merged.

Go to PIX\* > Patient Identity Consumer > [ITI-45] PIXV3 Query and execute the pre-defined query named "CHPIXV3\_MGR\_ITI-44 - step 70". Then :

1. Right-click on the magnifying glass icon (last column) and copy/paste the permanent link in the test step using the "Add link" feature.

### Evaluation

The monitor will check that all the messages produced by your system under test successfully pass the validation against the tool.

In addition, he/she will make sure that the acknowledgement code is AA. And finally, you need to prove that the patients are correctly created/updated/merged in your system.

## Test Participants

Role in test : CH_PIXV3_REF_MGR (SUT)			Option : R	Nb of instances : 1
Actor	Profile	Option		
PAT_ID_X_REF_MGR	CH:PIXV3	NONE		
Role in test : PATIENT_MANAGER (Tool)			Option : R	Nb of instances : 1

Test Steps							
Index	Initiator	Responder	Transaction	Message Type	Secured ?	Option	Description
10	PATIENT_MANAGER	CH_PIXV3_REF_MGR	ITI-44	PRPA_IN201301U V02	No	Required	[TRANSACTION][EVIDENCE] Send a Patient Identity Feed (Add patient record) to your system for patient Nazan Anklin (identifiers: CHPAM93^^^CHPAM&1.3.6.1.4.1.12559.11.20.1&ISO and 761337614852696651^^^SPID&2.16.756.5.30.1.127.3.10.3&ISO). Validate your response and copy in this step the permanent link to the message as well as a screenshot of your system.
15	CH_PIXV3_REF_MGR R	CH_PIXV3_REF_MGR		None	No	Required	[EVIDENCE] Upload in this step a screenshot from your system demonstrating that is correctly integrated the request from the simulator.
30	PATIENT_MANAGER	CH_PIXV3_REF_MGR	ITI-44	PRPA_IN201301U V02	No	Required	[TRANSACTION][EVIDENCE] Send a Patient Identity Feed (Add patient record) to your system for patient Nazan Enklin (identifiers: CHPAM94^^^CHPAM&1.3.6.1.4.1.12559.11.20.1&ISO and 761337614852696652^^^SPID&2.16.756.5.30.1.127.3.10.3&ISO). Validate your response and copy in this step the permanent link to the message as well as a screenshot of your system.
35	CH_PIXV3_REF_MGR R	CH_PIXV3_REF_MGR		None	No	Required	[EVIDENCE] Upload in this step a screenshot from your system demonstrating that is correctly integrated the request from the simulator.
50	PATIENT_MANAGER	CH_PIXV3_REF_MGR	ITI-44	PRPA_IN201302U V02	No	Required	[TRANSACTION][EVIDENCE] Update last name of patient Nazan Anklin, it has been incorrectly spelt, change it to Enklin and send the Revise Patient Record message to your system. Validate your response and copy in this step the permanent link to the message as well as a screenshot of your system.
52	CH_PIXV3_REF_MGR R	CH_PIXV3_REF_MGR		None	No	Required	[EVIDENCE] Upload in this step a screenshot from your system demonstrating that is correctly integrated the request from the simulator.
60	PATIENT_MANAGER	CH_PIXV3_REF_MGR	ITI-44	PRPA_IN201304U V02	No	Required	[TRANSACTION][EVIDENCE] Patients with identifiers CHPAM94 and CHPAM93 appears to be the same patients, the one with identifier CHPAM93 shall remain. Send a Duplicates resolved message to your system. Validate your response and copy in this step the permanent link to the message as well as a screenshot of your system.
65	CH_PIXV3_REF_MGR R	CH_PIXV3_REF_MGR		None	No	Required	[EVIDENCE] Upload in this step a screenshot from your system demonstrating that is correctly integrated the request from the simulator.
80	PATIENT_MANAGER	CH_PIXV3_REF_MGR	ITI-45	PRPA_IN201309U V02	No	Required	[TRANSACTION][EVIDENCE] Finally, use Patient Manager to query your system and thus confirm that the patients have been merged. Copy the link to the message in the test instance

## Sequence Diagram

CHPIXV3 MGR ITI-44



PATIENT MANAGER: PATIENT MANAGER

CH PIXV3 REF MGR: PAT ID X REF MGR

[TRANSACTION][EVIDENCE] Send a Patient Identity Feed (Add patient record) to your system for patient Nazan Anklin (identifiers: CHPAM93^^^^CHPAM&1.3.6.1.4.1.12559.11.20.1&ISO and 761337614852696651^^^^SPID&2.16.756.5.30.1.127.3.10.3&ISO). Validate your response and copy in this step the permanent link to the message as well as a screenshot of your system.

ITI-44 : PRPA\_IN201301UV02

[EVIDENCE] Upload in this step a screenshot from your system demonstrating that is correctly integrated the request from the simulator.

[TRANSACTION][EVIDENCE] Send a Patient Identity Feed (Add patient record) to your system for patient Nazan Enklin (identifiers: CHPAM94^^^^CHPAM&1.3.6.1.4.1.12559.11.20.1&ISO and 761337614852696652^^^^SPID&2.16.756.5.30.1.127.3.10.3&ISO). Validate your response and copy in this step the permanent link to the message as well as a screenshot of your system.

ITI-44 : PRPA\_IN201301UV02

[EVIDENCE] Upload in this step a screenshot from your system demonstrating that is correctly integrated the request from the simulator.

[TRANSACTION][EVIDENCE] Update last name of patient Nazan Anklin, it has been incorrectly spelt, change it to Enklin and send the Revise Patient Record message to your system. Validate your response and copy in this step the permanent link to the message as well as a screenshot of your system.

ITI-44 : PRPA\_IN201302UV02

[EVIDENCE] Upload in this step a screenshot from your system demonstrating that is correctly integrated the request from the simulator.

[TRANSACTION][EVIDENCE] Patients with identifiers CHPAM94 and CHPAM93 appears to be the same patients, the one with identifier CHPAM93 shall remain. Send a Duplicates resolved message to your system. Validate your response and copy in this step the permanent link to the message as well as a screenshot of your system.

ITI-44 : PRPA\_IN201304UV02

[EVIDENCE] Upload in this step a screenshot from your system demonstrating that is correctly integrated the request from the simulator.

[TRANSACTION][EVIDENCE] Finally, use Patient Manager to query your system and thus confirm that the patients have been merged. Copy the link to the message in the test instance

ITI-45 : PRPA\_IN201309UV02



# Test case #13214 CHPIXV3\_MGR\_ITI-45\_1

## Test Summary

**Keyword :** CHPIXV3\_MGR\_ITI-45\_1 **Type :** conformity assessment  
**Name :** CHPIXV3\_MGR\_ITI-45\_1 **Peer Type :** NO\_PEER\_TEST  
**Version :** 1.0 **Status :** ready  
**Author :** aberge **Verified by :** NicolasBailliet  
**Date of last :** 2019-09-03 15:06:51.071589 by wbars

**Short Description :** This test checks that your CH:PIXV3 Patient Identifier Cross-Reference manager correctly answers to PIXV3 queries (ITI-45) when both the query patient identifier and the requested domain are known.

## Test Description

### Special Instructions

You shall have run test **CHPIX\_CHPDQ\_SERVER\_CONF** as a pre-requisite to this test so that your system is already fed with the necessary data.

This test will be run against the Gazelle Patient Manager tool acting as a PIXV3 Patient Identifier Cross-reference Consumer.

Make sure that the tool knows the configuration of your SUT before running this test: go to SUT Configurations --> HL7v3 Responders. Your configuration should have the following name PIXMGR\_{SYSTEM\_KEYWORD}.

Note that the messages your system under test exchanges with the tool will be captured and validated against the Gazelle HL7 Validator (model-based validation engine).

### Description

This test case covers the PIXv3 Query Case 1 defined in IHE technical framework: The Patient Identifier Cross-reference Manager recognizes the specified Patient ID sent by the Patient Identifier Cross-reference Consumer in PatientIdentifier.value, and corresponding identifiers exist for the specified patient in at least one of the domains requested in DataSource.value (one identifier per domain).

- AA (application accept) is returned in Acknowledgement.typeCode (transmission wrapper).
- OK (data found, no errors) is returned in QueryAck.queryResponseCode (control act wrapper).

To run this test:

1. Log in into Patient Manager and navigate to PIX\* > Patient Identity Consumer > [ITI-45] PIXv3 Query
2. Select your system under test in the drop-down list and in, the **pre-defined query** field, select CHPIXV3\_MGR\_QUERY-CASE-1
3. Hit the "Send message" button.

You are requested to provide the permanent link to the message exchanged with the simulator. Once the simulator has received the response from your system, a report is displayed at the bottom of the page. Scroll down to this section, ,

1. Click on the play icon next to the response message type to trigger the validation of the message sent by your system. We expect the outcome of the validation to be PASSED.
2. Right-click on the magnifying glass icon (last column) and copy/paste the permanent link in the test step using the "Add link" feature.

### Evaluation

The monitor will check that all the messages produced by your system under test successfully pass the validation against the tool.

In addition, he/she will make sure that content of your responses match the one expected. The returned identifier shall be **CHFACILITY9810^^^CHFACILITY&1.3.6.1.4.1.12559.11.25.1.19**

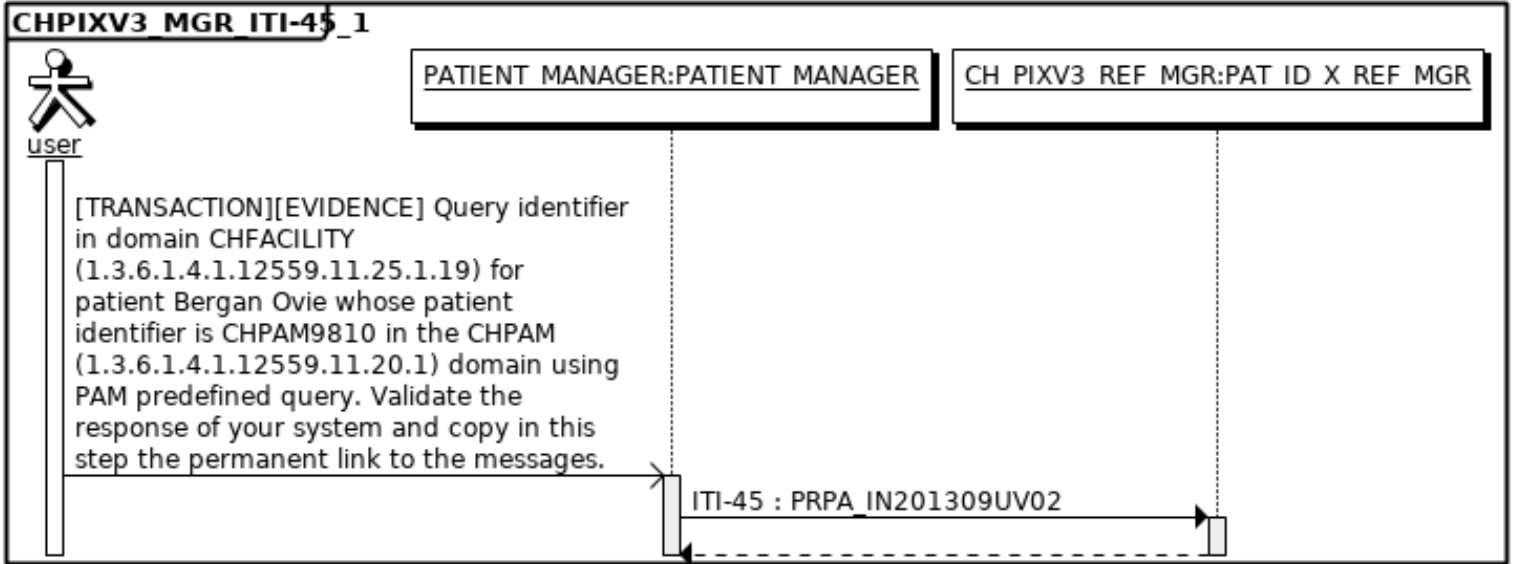
## Test Participants

Role in test : CH_PIXV3_REF_MGR (SUT)			Option : R	Nb of instances : 1
Actor	Profile	Option		
PAT_ID_X_REF_MGR	CH:PIXV3	NONE		
Role in test : PATIENT_MANAGER (Tool)			Option : R	Nb of instances : 1

### Test Steps

Index	Initiator	Responder	Transaction	Message Type	Secured ?	Option	Description
1	PATIENT_MANAGER	CH_PIXV3_REF_MGR	ITI-45	PRPA_IN201309UV02	No	Required	[TRANSACTION][EVIDENCE] Query identifier in domain CHFACILITY (1.3.6.1.4.1.12559.11.25.1.19) for patient Bergan Ovie whose patient identifier is CHPAM9810 in the CHPAM (1.3.6.1.4.1.12559.11.20.1) domain using PAM predefined query. Validate the response of your system and copy in this step the permanent link to the messages.

### Sequence Diagram



# Test case #13216 CHPIXV3\_MGR\_ITI-45\_3

## Test Summary

**Keyword :** CHPIXV3\_MGR\_ITI-45\_3 **Type :** conformity assessment  
**Name :** CHPIXV3\_MGR\_ITI-45\_3 **Peer Type :** NO\_PEER\_TEST  
**Version :** 1.0 **Status :** ready  
**Author :** aberge **Verified by :** NicolasBailliet  
**Date of last :** 2019-09-03 15:07:40.690199 by wbars

**Short Description :** This test verifies the ability of the CH:PIXV3 Patient Identifier Cross reference manager actor to handle the error case of the PIXV3 Query (ITI-45) where no identifier exists for the queried patient in any of the domains sent in DataSource.value

## Test Description

### Special Instructions

You shall have run test **CHPIX\_CHPDQ\_SERVER\_CONF** as a pre-requisite to this test so that your system is already fed with the necessary data.

This test will be run against the Gazelle Patient Manager tool acting as a PIXV3 Patient Identifier Cross-reference Consumer.

Make sure that the tool knows the configuration of your SUT before running this test: go to SUT Configurations --> HL7v3 Responders. Your configuration should have the following name PIXMGR\_{SYSTEM\_KEYWORD}.

Note that the messages your system under test exchanges with the tool will be captured and validated against the Gazelle HL7 Validator (model-based validation engine).

### Description

This test case covers the PIXv3 Query Case 3 defined in IHE technical framework: The Patient Identifier Cross-reference Manager recognizes the specified Patient ID sent in PatientIdentifier.value, but no identifier exists for that patient in any of the domains sent in DataSource.value.

- AA (application accept) is returned in Acknowledgement.typeCode (transmission wrapper).
- NF (no data found, no errors) is returned in QueryAck.queryResponseCode (control wrapper).
- No RegistrationEvent is returned.
- The queried-for patient identifier is returned in the QueryByParameter parameter list (control actwrapper).

To run this test:

1. Log in into Patient Manager and navigate to PIX\* > Patient Identity Consumer > [ITI-45] PIXv3 Query
2. Select your system under test in the drop-down list and in, the **pre-defined query** field, select CHPIXV3\_MGR\_QUERY-CASE-3
3. Hit the "Send message" button.

You are requested to provide the permanent link to the message exchanged with the simulator. Once the simulator has received the response from your system, a report is displayed at the bottom of the page. Scroll down to this section, ,

1. Click on the play icon next to the response message type to trigger the validation of the message sent by your system. We expect the outcome of the validation to be PASSED.
2. Right-click on the magnifying glass icon (last column) and copy/paste the permanent link in the test step using the "Add link" feature.

### Evaluation

The monitor will check that all the messages produced by your system under test successfully pass the validation against the tool.

In addition, he/she will make sure that content of your responses match the one expected.

## Test Participants

Role in test : CH_PIXV3_REF_MGR (SUT)			Option : R	Nb of instances : 1
Actor	Profile	Option		
PAT_ID_X_REF_MGR	CH:PIXV3	NONE		

## Test Participants

Role in test : PATIENT\_MANAGER (Tool)

Option : R

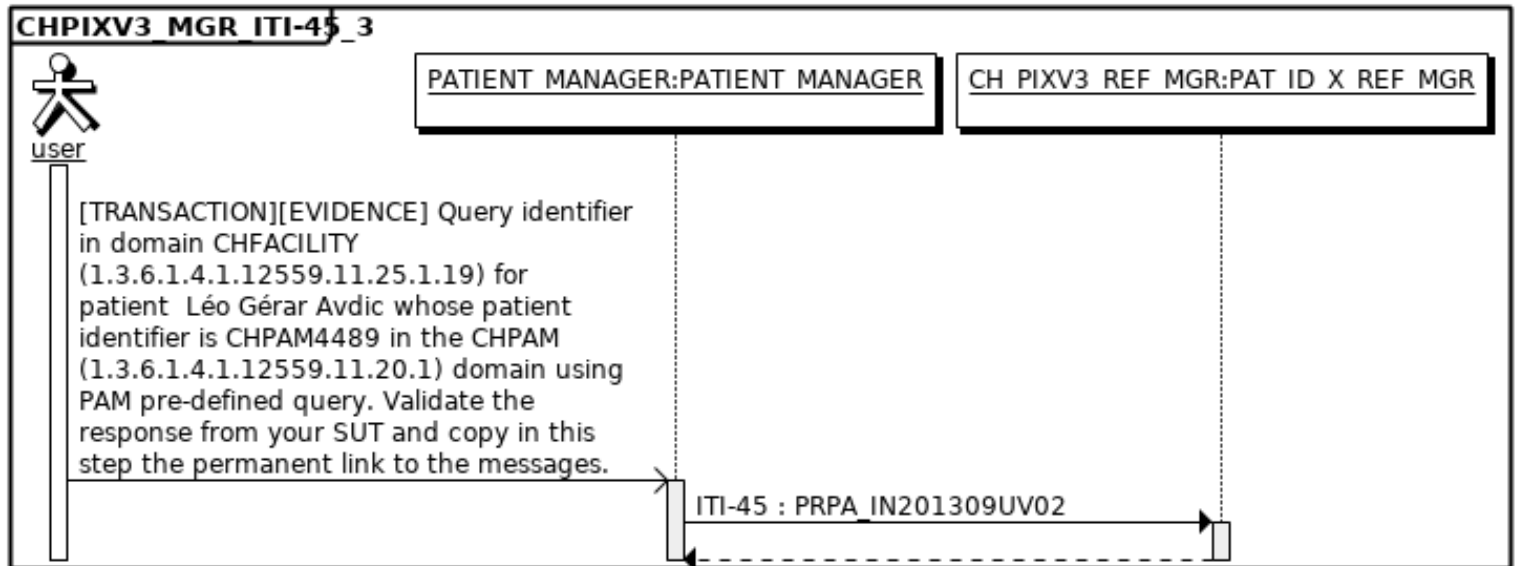
Nb of instances : 1

## Test Steps

Index	Initiator	Responder	Transaction	Message Type	Secured ?	Option	Description
10	PATIENT_MANAGER	CH_PIXV3_REF_MGR	ITI-45	PRPA_IN201309UV02	No	Required	

[TRANSACTION][EVIDENCE] Query identifier in domain CHFACILITY (1.3.6.1.4.1.12559.11.25.1.19) for patient Léo Gérard Avdic whose patient identifier is CHPAM4489 in the CHPAM (1.3.6.1.4.1.12559.11.20.1) domain using PAM pre-defined query. Validate the response from your SUT and copy in this step the permanent link to the messages.

## Sequence Diagram



# Test case #13217 CHPIXV3\_MGR\_ITI-45\_4

## Test Summary

**Keyword :** CHPIXV3\_MGR\_ITI-45\_4  
**Name :** CHPIXV3\_MGR\_ITI-45\_4  
**Version :** 1.0  
**Author :** aberge  
**Date of last :** 2019-09-03 15:08:06.469389 by wbars  
**Type :** conformity assessment  
**Peer Type :** NO\_PEER\_TEST  
**Status :** ready  
**Verified by :** NicolasBailliet

**Short Description :** This test verifies the ability of the CH:PIXV3 Patient Identifier Cross reference manager actor to handle the error case of the PIXV3 Query (ITI-45) where the system under test does not know the patient identifier enclosed in the query.

## Test Description

### Special Instructions

You shall have run test **CHPIX\_CHPDQ\_SERVER\_CONF** as a pre-requisite to this test so that your system is already fed with the necessary data.

This test will be run against the Gazelle Patient Manager tool acting as a PIXV3 Patient Identifier Cross-reference Consumer.

Make sure that the tool knows the configuration of your SUT before running this test: go to SUT Configurations --> HL7v3 Responders. Your configuration should have the following name PIXMGR\_{SYSTEM\_KEYWORD}.

Note that the messages your system under test exchanges with the tool will be captured and validated against the Gazelle HL7 Validator (model-based validation engine).

### Description

This test case covers the PIXv3 Query Case 4 defined in IHE technical framework: The Patient Identifier Cross-reference Manager does not recognize the Patient ID sent in the PatientIdentifier.value.

- AE (application error) is returned in Acknowledgement.typeCode (transmission wrapper) and in QueryAck.queryResponseCode (control act wrapper).
- No RegistrationEvent is returned.
- The queried-for patient identifier is returned in the QueryByParameter parameter list (control act wrapper).
- An AcknowledgmentDetail class is returned in which the attributes typeCode, code, and location are valued as follows:
  - typeCode = E
  - code = 204 (Unknown Key Identifier)
  - location = XPath expression for the value element of the PatientIdentifier parameter

To run this test:

1. Log in into Patient Manager and navigate to PIX\* > Patient Identity Consumer > [ITI-45] PIXv3 Query
2. Select your system under test in the drop-down list and in, the **pre-defined query** field, select CHPIXV3\_MGR\_QUERY-CASE-4
3. Hit the "Send message" button.

For each step, you are requested to provide the permanent link to the message exchanged with the simulator. Once the simulator has received the response from your system, a report is displayed at the bottom of the page. Scroll down to this section, ,

1. Click on the play icon next to the response message type to trigger the validation of the message sent by your system. We expect the outcome of the validation to be PASSED.
2. Right-click on the magnifying glass icon (last column) and copy/paste the permanent link in the test step using the "Add link" feature.

### Evaluation

The monitor will check that all the messages produced by your system under test successfully pass the validation against the tool.

In addition, he/she will make sure that content of your responses match the one expected.

## Test Participants

### Test Participants

Role in test : CH\_PIXV3\_REF\_MGR (SUT)

Option : R

Nb of instances : 1

Actor	Profile	Option
PAT_ID_X_REF_MGR	CH:PIXV3	NONE

Role in test : PATIENT\_MANAGER (Tool)

Option : R

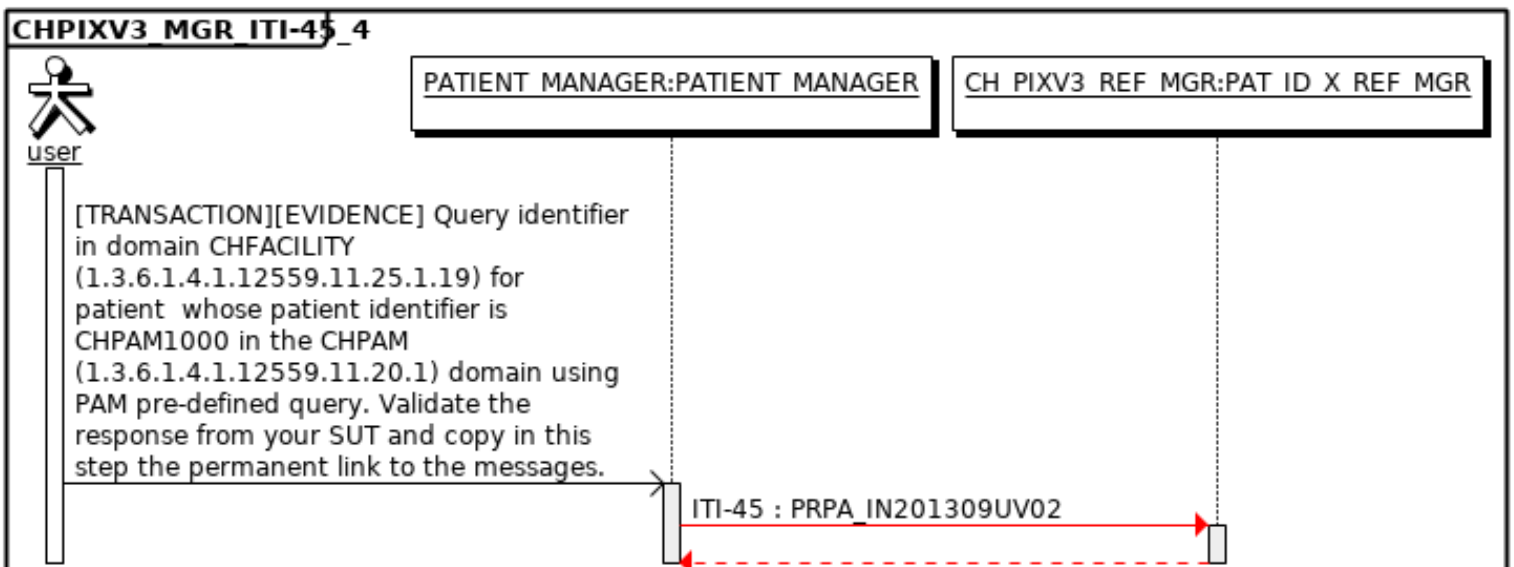
Nb of instances : 1

### Test Steps

Index	Initiator	Responder	Transaction	Message Type	Secured ?	Option	Description
10	PATIENT_MANAGER	CH_PIXV3_REF_MGR	ITI-45	PRPA_IN201309UV02	Yes	Required	

[TRANSACTION][EVIDENCE] Query identifier in domain CHFACILITY (1.3.6.1.4.1.12559.11.25.1.19) for patient whose patient identifier is CHPAM1000 in the CHPAM (1.3.6.1.4.1.12559.11.20.1) domain using PAM pre-defined query. Validate the response from your SUT and copy in this step the permanent link to the messages.

### Sequence Diagram



# Test case #13218 CHPIXV3\_MGR\_ITI-45\_5

## Test Summary

**Keyword** : CHPIXV3\_MGR\_ITI-45\_5  
**Name** : CHPIXV3\_MGR\_ITI-45\_5  
**Version** : 1.0  
**Author** : aberge  
**Date of last** 2019-09-03 15:09:08.830569 by wbars  
**Type** : conformity assessment  
**Peer Type** : NO\_PEER\_TEST  
**Status** : ready  
**Verified by** : NicolasBailliet

**Short Description** : This test verifies the ability of the CH:PIXV3 Patient Identifier Cross reference manager actor to handle the error case of the PIXV3 Query (ITI-45) when it does not recognize one or more of the Patient Identification Domains for which an identifier has been requested.

## Test Description

### Special Instructions

You shall have run test **CHPIX\_CHPDQ\_SERVER\_CONF** as a pre-requisite to this test so that your system is already fed with the necessary data.

This test will be run against the Gazelle Patient Manager tool acting as a PIXV3 Patient Identifier Cross-reference Consumer.

Make sure that the tool knows the configuration of your SUT before running this test: go to SUT Configurations --> HL7v3 Responders. Your configuration should have the following name PIXMGR\_{SYSTEM\_KEYWORD}.

Note that the messages your system under test exchanges with the tool will be captured and validated against the Gazelle HL7 Validator (model-based validation engine).

### Description

This test case covers the PIXv3 Query Case 5 defined in IHE technical framework: The Patient Identifier Cross-reference Manager does not recognize one or more of the Patient Identification Domains for which an identifier has been requested.

- AE (application error) is returned in Acknowledgement.typeCode (transmission wrapper) and in QueryAck.queryResponseCode (control act wrapper).
- No RegistrationEvent is returned.
- The queried-for patient identifier is returned in the QueryByParameter parameter list (control act wrapper).
- An AcknowledgmentDetail class is returned in which the attributes typeCode, code, and location are valued as follows:
  - typeCode = E
  - code = 204 (Unknown Key Identifier)
  - location = XPath expression for the value element of the PatientIdentifier parameter

To run this test:

1. Log in into Patient Manager and navigate to PIX\* > Patient Identity Consumer > [ITI-45] PIXv3 Query
2. Select your system under test in the drop-down list and in, the **pre-defined query** field, select CHPIXV3\_MGR\_QUERY-CASE-5
3. Hit the "Send message" button.

You are requested to provide the permanent link to the message exchanged with the simulator. Once the simulator has received the response from your system, a report is displayed at the bottom of the page. Scroll down to this section, ,

1. Click on the play icon next to the response message type to trigger the validation of the message sent by your system. We expect the outcome of the validation to be PASSED.
2. Right-click on the magnifying glass icon (last column) and copy/paste the permanent link in the test step using the "Add link" feature.

### Evaluation

The monitor will check that all the messages produced by your system under test successfully pass the validation against the tool.

In addition, he/she will make sure that content of your responses match the one expected.

## Test Participants

### Test Participants

Role in test : CH\_PIXV3\_REF\_MGR (SUT)

Option : R

Nb of instances : 1

Actor	Profile	Option
PAT_ID_X_REF_MGR	CH:PIXV3	NONE

Role in test : PATIENT\_MANAGER (Tool)

Option : R

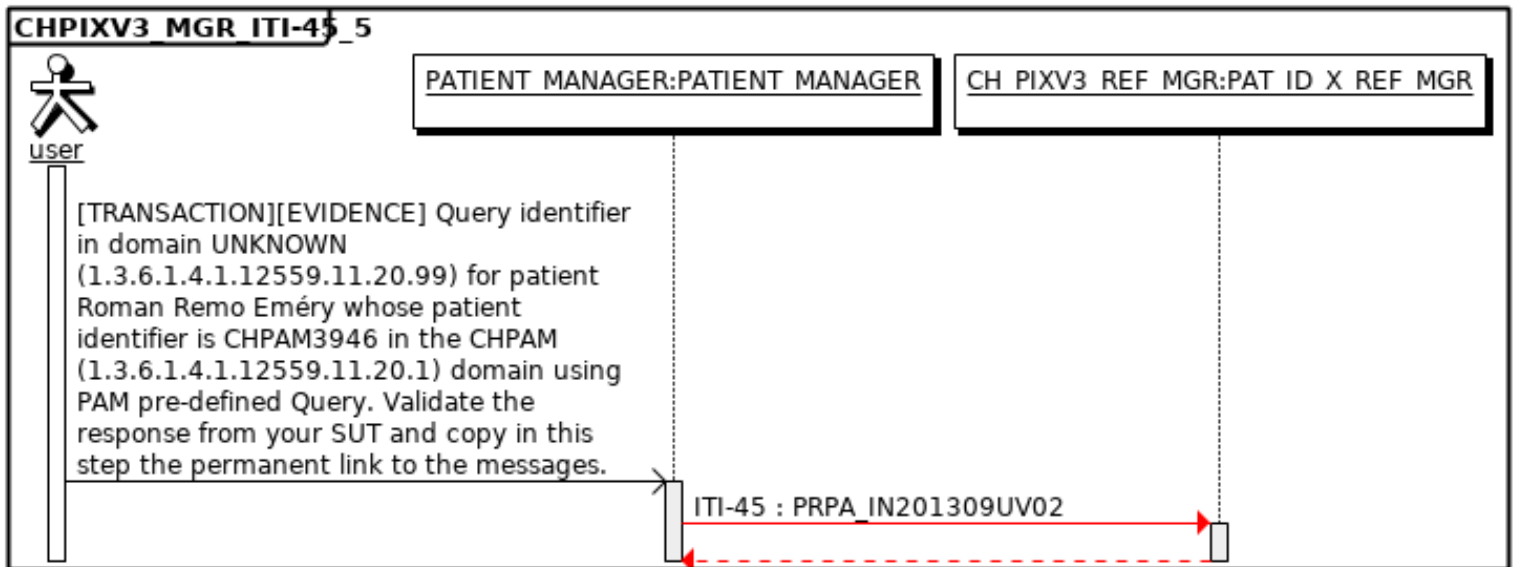
Nb of instances : 1

### Test Steps

Index	Initiator	Responder	Transaction	Message Type	Secured ?	Option	Description
1	PATIENT_MANAGER	CH_PIXV3_REF_MGR	ITI-45	PRPA_IN201309UV02	Yes	Required	

[TRANSACTION][EVIDENCE] Query identifier in domain UNKNOWN (1.3.6.1.4.1.12559.11.20.99) for patient Roman Remo Eméry whose patient identifier is CHPAM3946 in the CHPAM (1.3.6.1.4.1.12559.11.20.1) domain using PAM pre-defined Query. Validate the response from your SUT and copy in this step the permanent link to the messages.

### Sequence Diagram



# Test case #13219 CHPIXV3\_MGR\_ITI-45\_6

## Test Summary

**Keyword :** CHPIXV3\_MGR\_ITI-45\_6  
**Name :** CHPIXV3\_MGR\_ITI-45\_6  
**Version :** 1.0  
**Author :** aberge  
**Date of last :** 2019-09-04 10:33:58.285557 by aberge  
**Type :** conformity assessment  
**Peer Type :** NO\_PEER\_TEST  
**Status :** ready  
**Verified by :** NicolasBailliet

**Short Description :** This test checks that your SUT correctly answers to PIXV3 queries when it knows multiple identifiers within at least one of the requested domains

## Test Description

### Special Instructions

You shall have run test **CHPIX\_CHPDQ\_SERVER\_CONF** as a pre-requisites to this test so that your system is already fed with the necessary data.

This test will be run against the Gazelle Patient Manager tool acting as a PIXV3 Patient Identifier Cross-reference Consumer.

Make sure that the tool knows the configuration of your SUT before running this test: go to SUT Configurations --> HL7v3 Responders. Your configuration should have the following name PIXMGR\_{SYSTEM\_KEYWORD}.

Note that the messages your system under test exchanges with the tool will be captured and validated against the Gazelle HL7 Validator (model-based validation engine).

### Description

This test case covers the PIXv3 Query Case 6 defined in IHE technical framework: The Patient Identifier Cross-reference Manager recognizes the specified Patient ID sent by the Patient Identifier Cross-reference Consumer in PatientIdentifier.value, and corresponding identifiers exist for the specified patient in at least one of the domains requested in DataSource.value, and there are multiple identifiers within at least one of the requested domains.

- AA (application accept) is returned in Acknowledgement.typeCode (transmission wrapper).
- OK (data found, no errors) is returned in QueryAck.queryResponseCode (control act wrapper)
- A single RegistrationEvent class is returned, where at least one of the identifiers, which the Patient Identifier Cross-reference Manager did recognize as belonging to a requested domain, is returned in Patient.id. Subsequent such identifiers, if any, are returned in either Patient.id or OtherIDs.id, not including the queried-for patient identifier that is returned in the QueryByParameter parameter list (control act wrapper).
- If the Patient Identifier Cross-reference Manager chooses to return multiple identifiers associated with the same domain, it shall return these identifiers either grouped in a single instance of the OtherIDs class, or all represented via repetitions of the Patient.id attribute.

To run this test:

1. Log in into Patient Manager and navigate to PIX\* > Patient Identity Consumer > [ITI-45] PIXv3 Query
2. Select your system under test in the drop-down list and in, the **pre-defined query** field, select CHPIXV3\_MGR\_QUERY-CASE-6
3. Hit the "Send message" button.
4. Make sure the simulator has been able to extract the data from your response and validate the message sent by your system: in the "Test report" section, click on the play icon next to the message type of the response. Expected validation status is PASSED.
5. Copy the permanent link to the message (accessible from the link on the message ID in the very first column) and paste it in Gazelle Test Management.

### Evaluation

The monitor will check that all the messages produced by your system under test successfully pass the validation against the tool.

In addition, he/she will make sure that content of your responses match the one expected.

### Test Participants

Role in test : CH\_PIXV3\_REF\_MGR (SUT)

Option : R

Nb of instances : 1

Actor	Profile	Option
PAT_ID_X_REF_MGR	CH:PIXV3	NONE

Role in test : PATIENT\_MANAGER (Tool)

Option : R

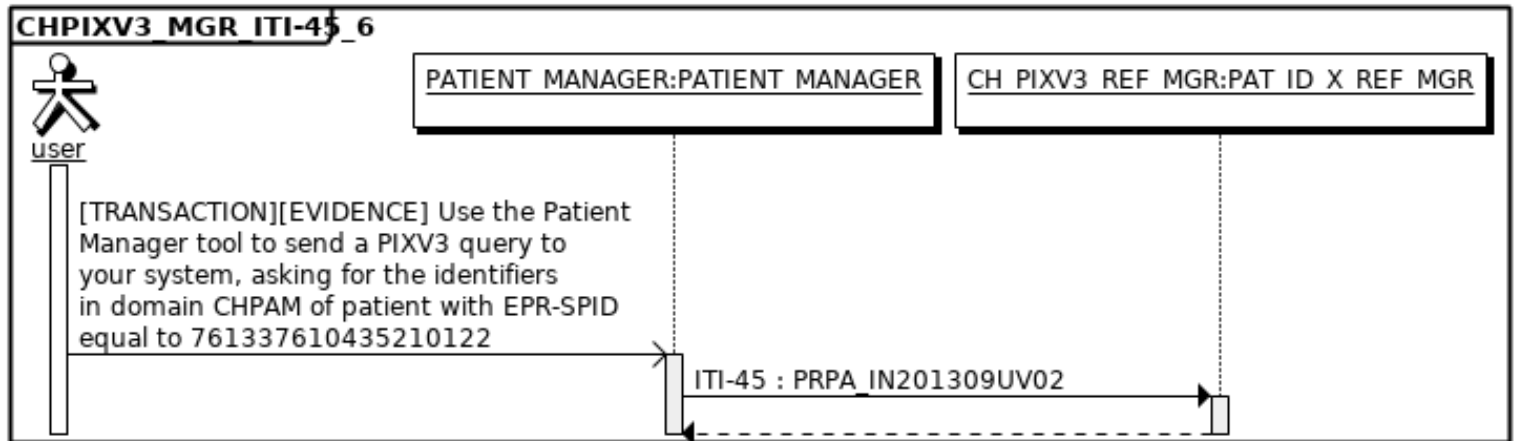
Nb of instances : 1

### Test Steps

Index	Initiator	Responder	Transaction	Message Type	Secured ?	Option	Description
4	PATIENT_MANAGER	CH_PIXV3_REF_MGR	ITI-45	PRPA_IN201309UV02	No	Required	

[TRANSACTION][EVIDENCE] Use the Patient Manager tool to send a PIXV3 query to your system, asking for the identifiers in domain CHPAM of patient with EPR-SPID equal to 761337610435210122

### Sequence Diagram



# Test case #13208 CHPIXV3\_SRC\_ITI-44

## Test Summary

**Keyword :** CHPIXV3\_SRC\_ITI-44 **Type :** conformity assessment  
**Name :** CHPIXV3\_SRC\_ITI-44 **Peer Type :** NO\_PEER\_TEST  
**Version :** 1.1 **Status :** ready  
**Author :** aberge **Verified by :** NicolasBailliet  
**Date of last :** 2021-09-06 16:20:55.556708 by vhofman

**Short Description :** This test verifies the ability of the CH:PIXV3 Patient Identity Source actor to issue conform messages for the Patient Identity Feed HL7V3 (ITI-44) transaction: add record, revise record and resolve duplicates operations.

## Test Description

### Special instructions

This test is run against the Patient Manager tool which acts as a Patient Identifier Cross-Reference Manager in this test. Configure your system to send feeds to this system. The URL of the SOAP endpoint is available under PIX\* > Patient Identifier Cross-Reference Manager > HL7v3 configuration. This simulator accepts all assigning authorities, use the one assigned to your system under test.

### Description

The purpose of this test is to verify that your system is able to produce HL7v3 messages which are conform to the ITI-44 Patient Identity Feed HL7V3 transaction. You will register two patients, update the demographics of one of them and finally merge them because it appears that, after verification, they are the same person. Patient identifiers will be assigned by your system.

#### Demographics for patient 1:

- **FirstName:** Kata
- **LastName (birth name):** Viret
- **Mother Maiden Name :** Tauxe
- **Gender:** Female
- **Date Of Birth:** June, 8th 1960
- **Mailing address:** Imfeldstrasse 2, Wettingen 5430, SWITZERLAND

#### Demographics for patient 2:

- **FirstName:** Kata
- **LastName (birth name):** Virer
- **Mother Maiden Name :** Tauxe
- **Gender:** Female
- **Date Of Birth:** June, 18th 1960
- **Mailing address:** Imfeldstrasse 2, Wettingen 5430, SWITZERLAND

For each step, you are requested to provide the permanent link to the message exchanged with the simulator. Those are available from the menu HL7 messages. To facilitate your search, you can filter by SUT IP address in "Initiator" column. Once you have find your message,

1. Click on the play icon next to the request message type to trigger the validation of the message sent by your system. We expect the outcome of the validation to be PASSED.
2. Right-click on the magnifying glass icon (last column) and copy/paste the permanent link in the test step using the "Add link" feature.

### Evaluation

We do not care about the status of the acknowledgement returned by the tool. Ideally it would be CA.

All the messages issued by the System Under Test shall have a validation result set to PASSED.

## Test Participants

Role in test : CH_PIXV3_SOURCE (SUT)			Option : R	Nb of instances : 1
Actor	Profile	Option		
PAT_ID_SRC	CH:PIXV3	NONE		
Role in test : PATIENT_MANAGER (Tool)			Option : R	Nb of instances : 1

Test Steps							
Index	Initiator	Responder	Transaction	Message Type	Secured ?	Option	Description
5	CH_PIXV3_SOURCE	CH_PIXV3_SOURCE		-	No	Required	[INSTRUCTION] Enter demographics for patient 1 (Kata Viret) into your system. Its local identifier and EPR-SPID are assigned by your system.
10	CH_PIXV3_SOURCE	PATIENT_MANAGER	ITI-44	PRPA_IN201301U V02	No	Required	[TRANSACTION][EVIDENCE] Send a "Add Patient Record" message to Patient Manager for patient Kata Viret (patient 1)
15	CH_PIXV3_SOURCE	CH_PIXV3_SOURCE		-	No	Required	[INSTRUCTION] Enter demographics for patient 2 (Kata Virer) into your system. Its local identifier and EPR-SPID are assigned by your system.
30	CH_PIXV3_SOURCE	PATIENT_MANAGER	ITI-44	PRPA_IN201301U V02	No	Required	[TRANSACTION][EVIDENCE] Send a "Add patient record" message to Patient Manager for patient Kata Virer (patient 2)
35	CH_PIXV3_SOURCE	CH_PIXV3_SOURCE		-	No	Required	[INSTRUCTION] Family name of patient 2 was wrongly spelt. Update demographics of Kara Virer to update its family name to Viret.
40	CH_PIXV3_SOURCE	PATIENT_MANAGER	ITI-44	PRPA_IN201302U V02	No	Required	[TRANSACTION][EVIDENCE] The previous action shall have initiate the sending of a "Revise Patient Record" message to Patient Manager.
50	CH_PIXV3_SOURCE	CH_PIXV3_SOURCE		-	No	Required	[INSTRUCTION] It appears that patient 1 and patient 2 are referring to the same physical patient. In your SUT, perform a merge of this two records. Patient 2 is the correct one.
60	CH_PIXV3_SOURCE	PATIENT_MANAGER	ITI-44	PRPA_IN201304U V02	No	Required	[TRANSACTION][EVIDENCE] The previous action shall have initiate the sending of a "Patient Identity Merge" message to Patient Manager.

Sequence Diagram

