

# Xt-EHR Testing @ Hackathon Vitalis

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# Xt-EHR Projectathon @ IHE EU Connectathon



- **Testing of content**

- FHIR Implementation Guides for Xt-EHR
  - ePrescription/eDispensation
  - European Patient Summary
  - Discharge Report (Hospital Discharge Report)
  - Medical tests report (Laboratory Report)
  - Imaging Report
- Imaging Study Manifest
  - KOS Object
  - FHIR ImagingStudy

# FHIR Implementation Guides Overview

Source: Xt-EHR project – Closing presentation, April 2026

	Xt-EHR snapshot (only R4)	Publication (R4)	Publication (R5)	Xt-EHR Logical Model	Notes
Common Models	<a href="https://hl7.eu/fhir/base/xtehr">https://hl7.eu/fhir/base/xtehr</a>	<a href="https://hl7.eu/fhir/base/">https://hl7.eu/fhir/base/</a>	<a href="https://hl7.eu/fhir/base-r5/">https://hl7.eu/fhir/base-r5/</a>	<a href="#">Common models</a>	Ballot completed and reconciled. Publication planned end of April 2026.
ePrescription	<a href="https://hl7.eu/fhir/mpd/xtehr">https://hl7.eu/fhir/mpd/xtehr</a>	<a href="https://hl7.eu/fhir/mpd">https://hl7.eu/fhir/mpd</a>	<a href="https://hl7.eu/fhir/mpd-r5/">https://hl7.eu/fhir/mpd-r5/</a>	<a href="#">ePrescription</a>	Ballot completed and reconciled. Publication planned end of April / Begin May 2026
eDispensation				<a href="#">eDispense</a>	
Laboratory Report (Medical Test Results)	<a href="https://hl7.eu/fhir/laboratory/xtehr">https://hl7.eu/fhir/laboratory/xtehr</a>	<a href="https://hl7.eu/fhir/laboratory">https://hl7.eu/fhir/laboratory</a>	X	<a href="#">Medical Test Results</a>	Version 1.0 published on 2024. Version 2.0: Ballot completed and reconciled. Publication planned end of April / Begin May 2026
Imaging Report	<a href="https://hl7.eu/fhir/imaging/xtehr">https://hl7.eu/fhir/imaging/xtehr</a>	<a href="https://hl7.eu/fhir/imaging/">https://hl7.eu/fhir/imaging/</a>	<a href="https://hl7.eu/fhir/imaging-r5/">https://hl7.eu/fhir/imaging-r5/</a>	<a href="#">Medical Images and Report</a>	2nd Ballot ongoing Mar 23- Apr 30 2026 . Publication planned June 2026
Patient Summary	<a href="https://hl7.eu/fhir/eps/xtehr">https://hl7.eu/fhir/eps/xtehr</a>	<a href="https://hl7.eu/fhir/eps/">https://hl7.eu/fhir/eps/</a>	X	<a href="#">Patient Summary</a>	Ballot planned for May 2026. Publication planned July 2026
(Hospital) Discharge Report	<a href="https://hl7.eu/fhir/hdr/xtehr">https://hl7.eu/fhir/hdr/xtehr</a>	<a href="https://hl7.eu/fhir/hdr/">https://hl7.eu/fhir/hdr/</a>	X	<a href="#">Discharge Report</a>	Ballot reconciliation on going. Publication planned for August 2026

## ○ HL7 FHIR IGs for Xt-EHR Projectathon

- EU Base (R4)
- ePrescription/eDispensation (R4)
- European Patient Summary (R4)
- Hospital Discharge Report (R4)
- Laboratory Report (R4)
- Imaging Report (R4)



European Interoperability Specifications  
for Digital Solutions in Healthcare

QA Preview versions for  
Projectathon

# How is it tested?

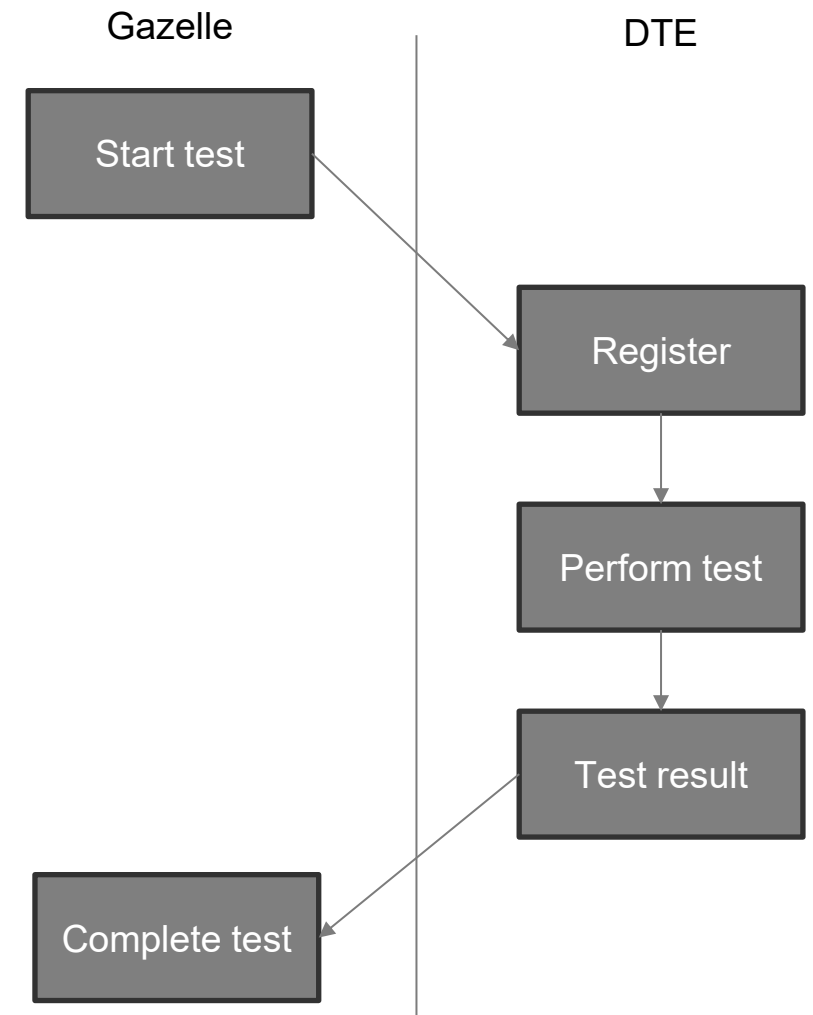
## ○ Tools used: Gazelle and EU DTE

### ○ In case of FHIR IGs:

- Gazelle for test management only
- Participants perform the content-testing using the EU DTE user-interface
- After completion participants upload EU DTE test results into Gazelle

### ○ In case of DICOM Metadata:

- Gazelle is calling own validators for Imaging Metadata content-testing



## ○ Testing of workflows

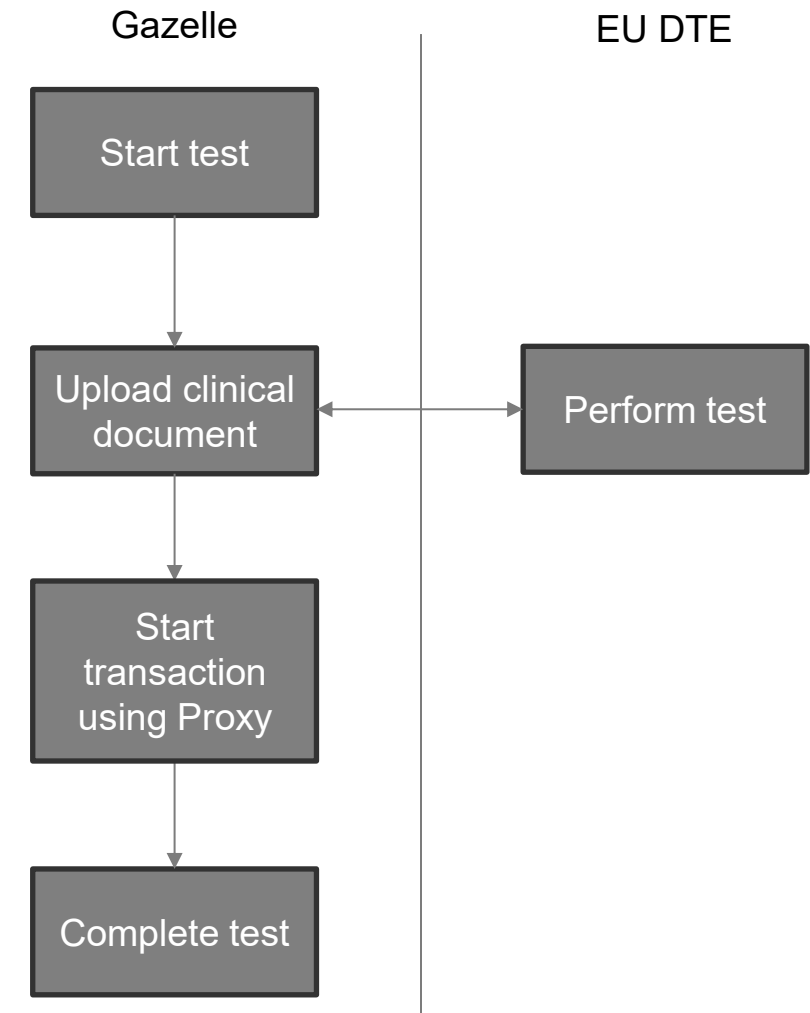
- Discharge documentation workflow(s)
- Laboratory documentation workflow(s)
- Patient Summary workflow(s)
- Imaging documentation workflow(s)
- Querying existing data workflow
- Image access workflow(s)

Those workflows can be tested in 2 different grades of maturity:

- **Base**: Minimal number of workflow steps to demonstrate the essence of the workflow
- **Realistic**: Comprehensive workflow including authentication (IUA) and patient id search (PDQm)

# How is it tested?

- **Tools used: Gazelle and EU DTE**
  - Gazelle for test management and performing tests
  - Using Gazelle proxy for transactional tests
  - For content-testing of FHIR IGs during the workflow:
    - Proxy calls EU DTE API
    - EU DTE performs content tests
    - Gazelle gets test results by EU DTE API



# Gazelle registration



Gazelle Test Session: <https://ehds.gazelle-platform.net/gazelle/home>

Gazelle User Guide: [https://drive.google.com/file/d/1-3pvA71RSvb\\_VcLdL9o5zIqqKlkvhNRI/view?usp=drive\\_link](https://drive.google.com/file/d/1-3pvA71RSvb_VcLdL9o5zIqqKlkvhNRI/view?usp=drive_link)



## EHDS Gazelle Test Bed

 English

Register

Sign in

Home

### Gazelle Interoperability Test Bed



#### Test Management

Access to test design application to create, edit tests of Gazelle

[Open application](#)



#### Validation portal

Validates your documents with validation portal service.

[Open application](#)

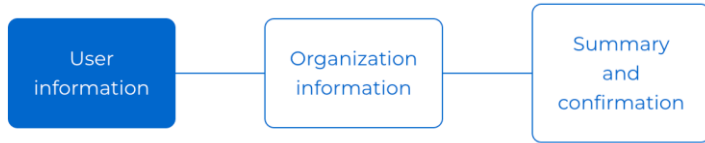


#### Message capture

Test your systems with message capture.

[Open application](#)

# Gazelle User/Organization Registration



## First name

## Last name

## E-mail

## Password

## Password confirmation

Password must be at least 8 characters long, with at least 1 uppercase, 1 lowercase, 1 number and 1 special character.

\* Required fields

[Privacy policy](#)

Join an existing organization

OR

Register and administrate a new organization

## Organization's legal name

\* Required fields

[Privacy policy](#)

**Information:**  
**The user who registers the organization is automatically assigned the role of organization administrator.** The organization administrator is responsible for activating users in his or her organization, and for managing information relating to the organization, its users and systems under test.

Join an existing organization

OR

Register and administrate a new organization

## Organization's legal name

## Short name

### Pay attention:

The Short name should contain neither space nor special characters (ex. !,?)

## Website URL

\* Required fields

[Privacy policy](#)

# Gazelle System Registration



Please select one testing session. This will set context and only display systems, data and results relevant to that session.

Join another session



Nicole Veggiotti

Vitalis Hackathon	Ongoing testing	?	✓	✎
Xt-EHR Projectathon 2026	Closed	?	●	✎
Plugathon EHDS Primary usage 2026	Closed	?	✓	✎
Demo Test Session	Ongoing testing	?	✓	✎

Registration



Join another session



## Registration

### Participating systems under tests

Add a system

Import systems from an other testing session

SUT Keyword	SUT Name	Version	Owner	Registration Status	All dependencies met	Accepted
OTHER_IHE Catalyst_TEST	TEST_Hackathon (OTHER)	1	Nicole Veggiotti	In progress	✓ Yes	✓ Accepted

Gazelle Test  
Session: <https://ehds.gazelle-platform.net/tm/testing/test/est/TestInstance.seam?id=359&cid=211303>  
Gazelle User Guide: [https://drive.google.com/file/d/1-3pvA71RSvb\\_VcLdL9o5zlqqKlkvhNRI/view?usp=drive\\_link](https://drive.google.com/file/d/1-3pvA71RSvb_VcLdL9o5zlqqKlkvhNRI/view?usp=drive_link)

# Gazelle Tips :)



**Content testing** via DTE can be completed before the event starts.

- Participants may execute content tests by registering as a "Producer (No Transport option)" of chosen Priority Categories

**Workflow testing** (Peer-to-peer tests) will be performed during the Hackathon

- "Producer (MHD Transport option)" and "FHIR server (MHD Transport option)" execute *Create and Send Priority Categories test cases*
- "Consumer (MHD Transport option)" and "FHIR server (MHD Transport option)" execute *Query, Retrieve and Display Priority Categories test cases*

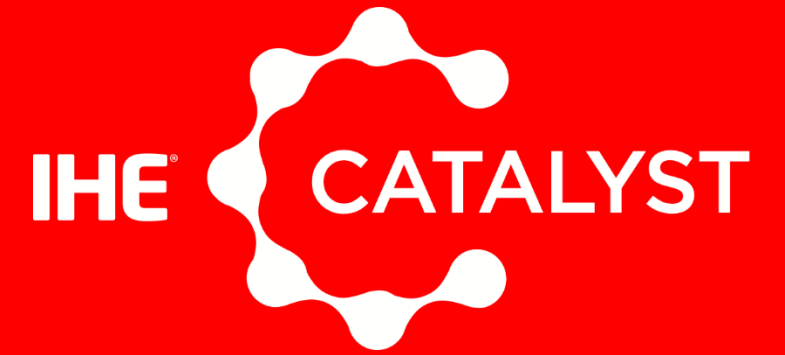
Before the Hackathon (so before the peer-to-peer tests) you need to do Network Configuration (but no Certificate):

[https://drive.google.com/file/d/14uH5lqW5yluYuv5NW3gk9\\_ik4otrUqjf/view?usp=drive\\_link](https://drive.google.com/file/d/14uH5lqW5yluYuv5NW3gk9_ik4otrUqjf/view?usp=drive_link)

Network configuration is useful to share the IP, port, and endpoint path used by each system

If you have any issue or question with Gazelle you can refer to my email [nveggiotti@ihe-catalyst.net](mailto:nveggiotti@ihe-catalyst.net)

**Zulip:** <https://ihe-catalyst.zulipchat.com/join/wrcisiljbh5ydh4g6dnyqsm/> (Register on Zulip and join us! :))



# Thank you!

**Jürgen Brandstätter**

Global Standards Director