The HL7 EU FHIR Lab Report Connectathon track in Athens

Organised in conjunction with the
35th HL7 International FHIR Connectathon

Webinar, 15 December 2023
16.00-17.00 CET

Online on Zoom

HL7® Europe

The HL7 EU FHIR Lab Report Connectathon track in Athens
Agenda

16.00 Welcome and introduction (**Michael Strübin**, *HL7 Europe*)

16.05 The HL7 FHIR Connectathon: overview (**Giorgio Cangioli**, *HL7 Europe Technical Lead*)

16.15 Laboratory Report IG and the Connectathon track (**Riki Merrick**, *Vernetzt LLC, HL7 OO WG co-chair*)

16.25 Why health authorities and vendors should join (**Hynek Kružík**, *National eHealth Center, Czech Republic)*

16.35 Q&A

16.50 HL7 Europe WGM and FHIR marathon practicalities (**Michael Strübin**, *HL7 Europe*)

17.00 End

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Welcome and ground rules

- The webinar will be recorded

- To help ensure a successful webinar please
  - Mute yourself
  - Feel free to use emojis during the presentations
  - Use the chat to make comments or raise your questions
  - Raise your hand if you'd like to speak
  - If you are invited to speak, please turn on your video and say who you are

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THE HL7 FHIR CONNECTATHON: OVERVIEW

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What is a Connectathon?

- An **HL7 FHIR Connectathon (FCAT)** is an event – occurring several times per year - that is **centered on developing the HL7 FHIR specification** including resources, profiles and implementation guides.
- The purpose is to **advance and prove that the specification is complete** and to progress with the HL7 FHIR implementation guide maturity.

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Why the HL7 FHIR Connectathon?

- **Increase specifications quality and maturity**
- Allow multiple stakeholders **to meet** and
  - **discover** possible **gaps** in the development or in the interpretation of the **specifications**
  - **identify** possible **issues** in their **system**
  - **Facilitate discussions** on existing or on-develop guides
  - **Promote new ideas**

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How it works ?

- Connectathon **participants** come together to **work alongside** vendors, **peers**, healthcare providers and administrators, as well as those **that actually wrote the HL7 FHIR specification**.
- **Test tools** are made available **for developers** to rapidly **learn to implement the standard** and validate their conformance to the specification and mature implementation guides.

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How it works ?

- The Connectathon is held over 2 (or 3) days
- It is composed of multiple *Tracks* focusing on a specific use case
  - Profile, Resource, Operation
  - Implementation Guide
  - Workflow
- Each track has a coordinator - Track Lead
- Participation requires some advance planning and preparation

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How it works ?

- In addition to test, activities include:
  - In-Depth discussion of use cases
  - Validation of implementation guides
  - Refinement of the HL7 FHIR Specification
  - Break Out Working Sessions

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How it works ..this time…

- Virtual Global Connectathon 2024, January 16-18
  - 9-17 ET
- Five tracks will be also **in person** as part of the FHIR Marathon. (same dates; 11-17 EET)
  - possibility to attend also the other virtual tracks
- List of all the tracks:

https://confluence.hl7.org/display/FHIR/2024+-+01+Connectathon+35

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Who should attend

- **Anyone !** You don’t need to be a developer…
- Domain experts, healthcare providers..
  - bring your ideas and needs and see how they could be implemented
  - Check if what is there, fits for purpose
- Vendors, developers
  - Test your implementations
  - Test the specifications

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Who should attend

- Architects, specifiers
  - Improve your specifications
  - Check specification consistency and applicability

- …. For all….
  - Discuss
  - Learn from each other
  - Have fun ;-)

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Participant Opportunities

- Join in the community
  - Bring Questions and share your challenges
  - Help others by sharing your knowledge
- Bring your development system ready to go
  - Have your application installed
  - Have your environment configured
- Raise questions/ discuss hot topics
- Record your Results
- What happens at Connectathon stays at Connectathon…It's OK to fail.

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Connectathon in Athens

- Five tracks (Tuesday to Thursday)
  - HL7 FHIR **Laboratory Report** Implementation Guide (EU)
  - **Vulcan ePI/GH** track: ePI/eLabeling with **Global IDMP** WG
  - International Patient Summary (**IPS**)
    - Alignment of European HL7 FHIR Implementation Guides
    - European Patient Summary
  - International Patient Access (**IPA**)
  - **European Cancer Mission** projects: Alignment of HL7 FHIR Implementation Guides

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Join us and get more

- You can join the global virtual FCAT !
- You can attend the in-person HL7 EU WGM
- You can have a tutorial for free
- .. and much more…

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Laboratory Report IG Background

(Riki Merrick, Vernetzt LLC, HL7 OO WG co-chair)

- *Lab Reporting is driven by local jurisdiction requirements*
  - *in Europe traditionally uses CDA based on IHE XD-Lab*
  - *the US uses V2, Canada V3 messaging*
  - *Overall FHIR is newer, but mandated for use in many jurisdictions*
- *Overall lab data exchange covers workflow*
  - *HL7 Orders and Observations (OO) WG is still working out how to translate that into FHIR*
  - *Results cover less workflow, so easier to start with*
- *Key factors to consider*
  - *Best to have a consistent starting point international vendors can support*
  - *All relevant data MUST be kept together*
  - *Relationships between multiple tests are important to retain - format and structure support that*

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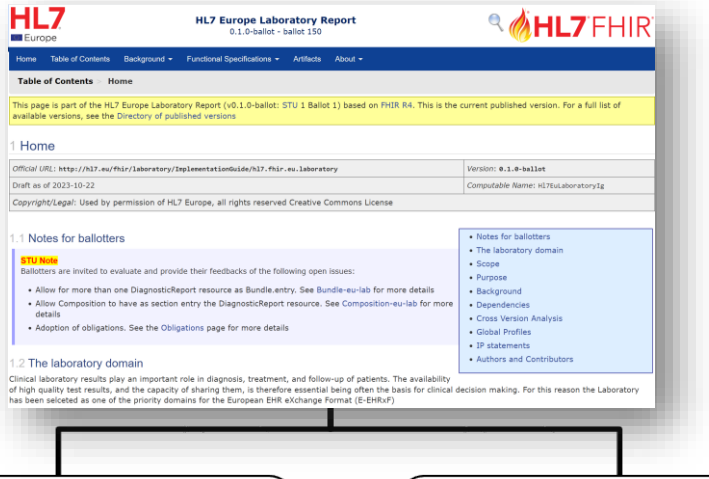
Why and Why now

European EHRxF

EHDS - Art 5 Priorities

Common rules for representing a Laboratory Report in the European context



Facilitate the harmonization among the national initiatives

Support the development of the European-EHRxF

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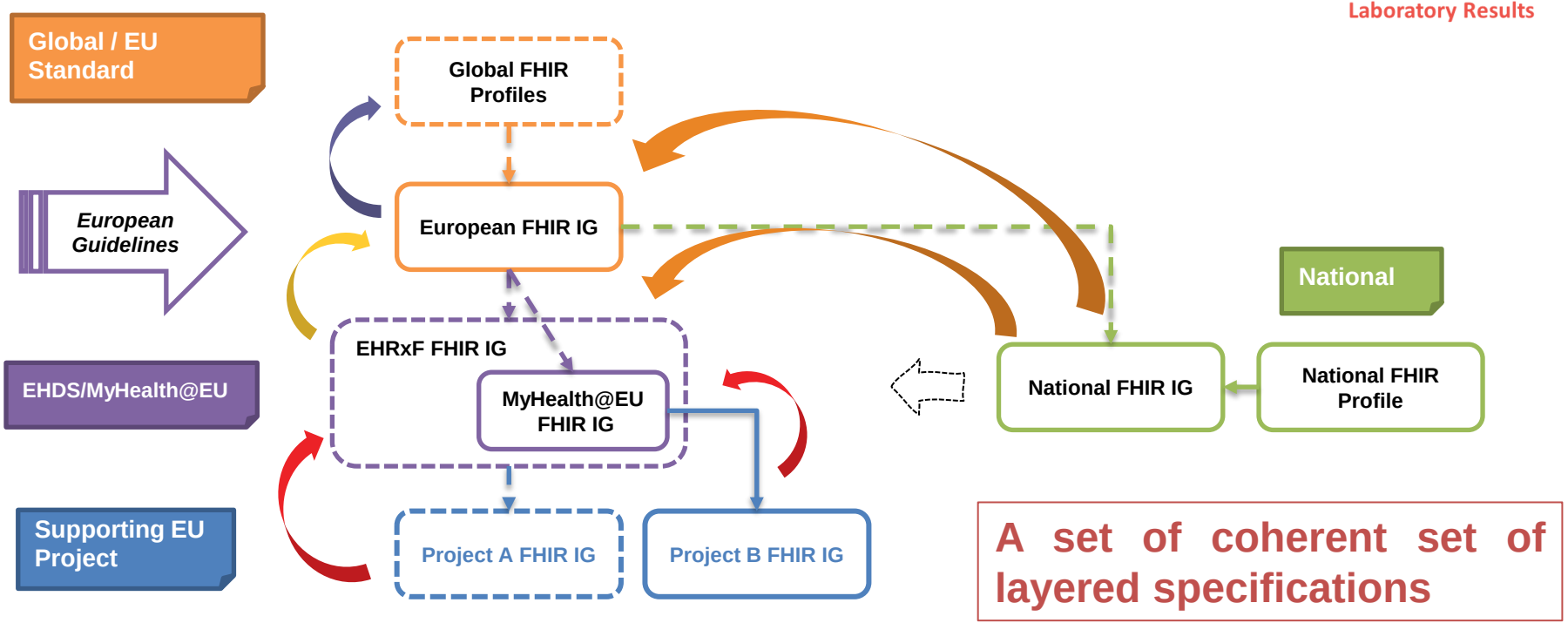
The Envisioned IG Ecosystem



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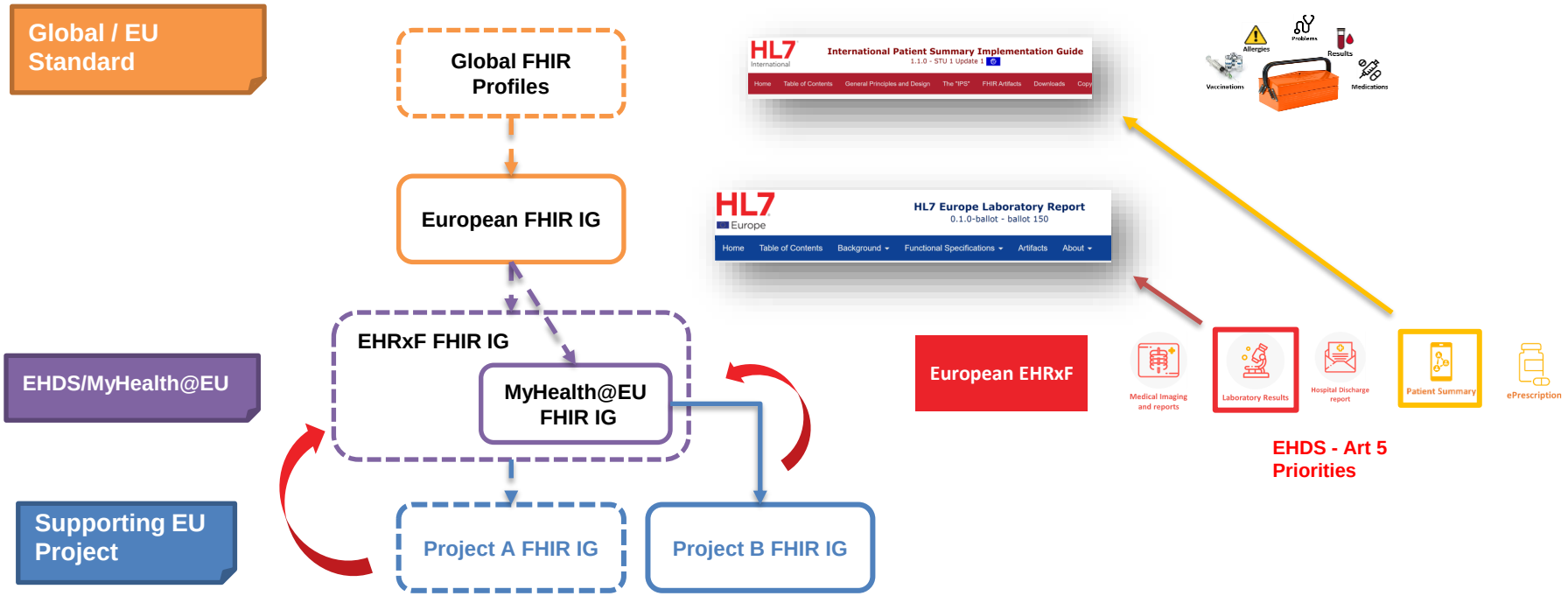
The Envisioned IG Ecosystem – Added Value



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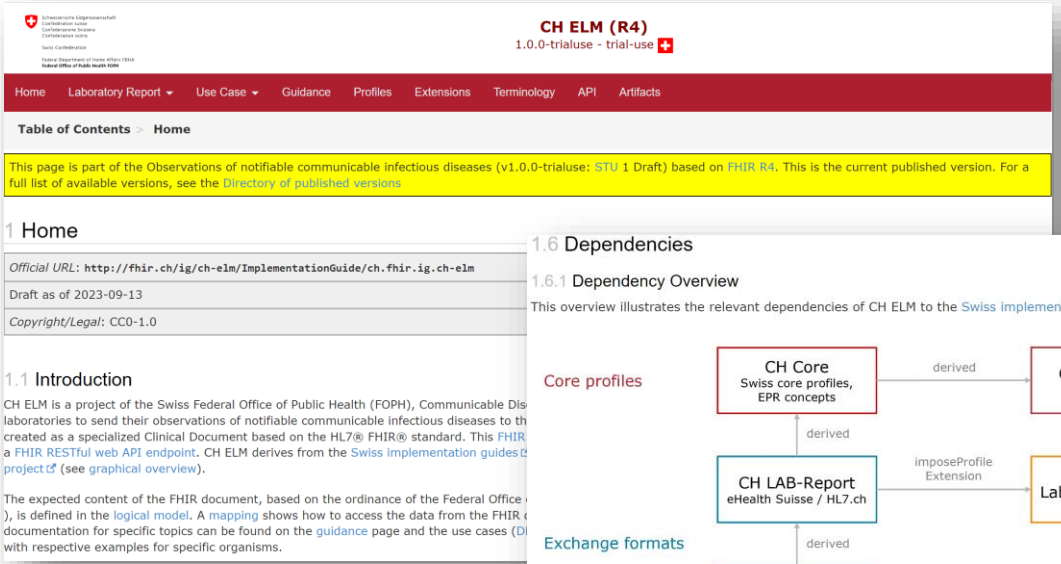
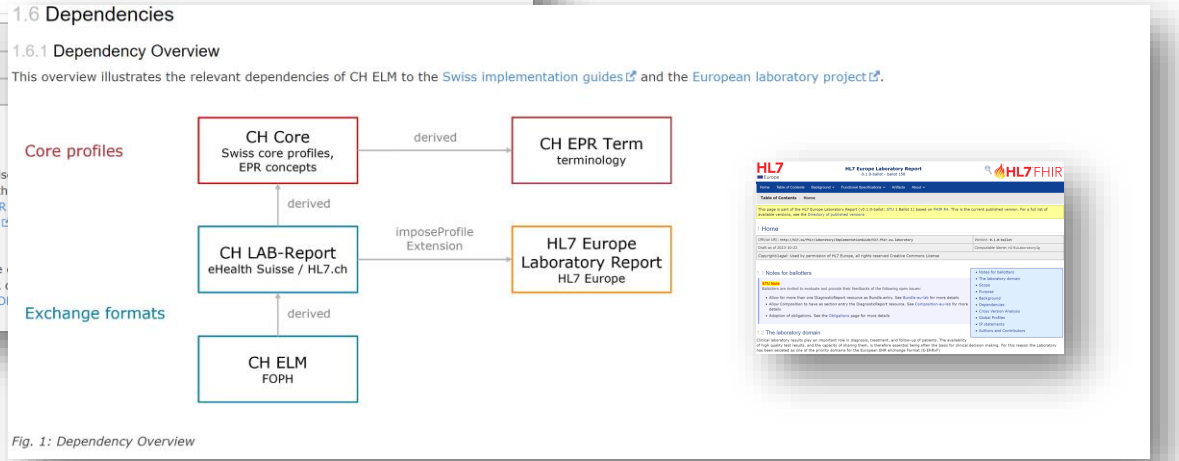
Layered Specifications: A concrete example



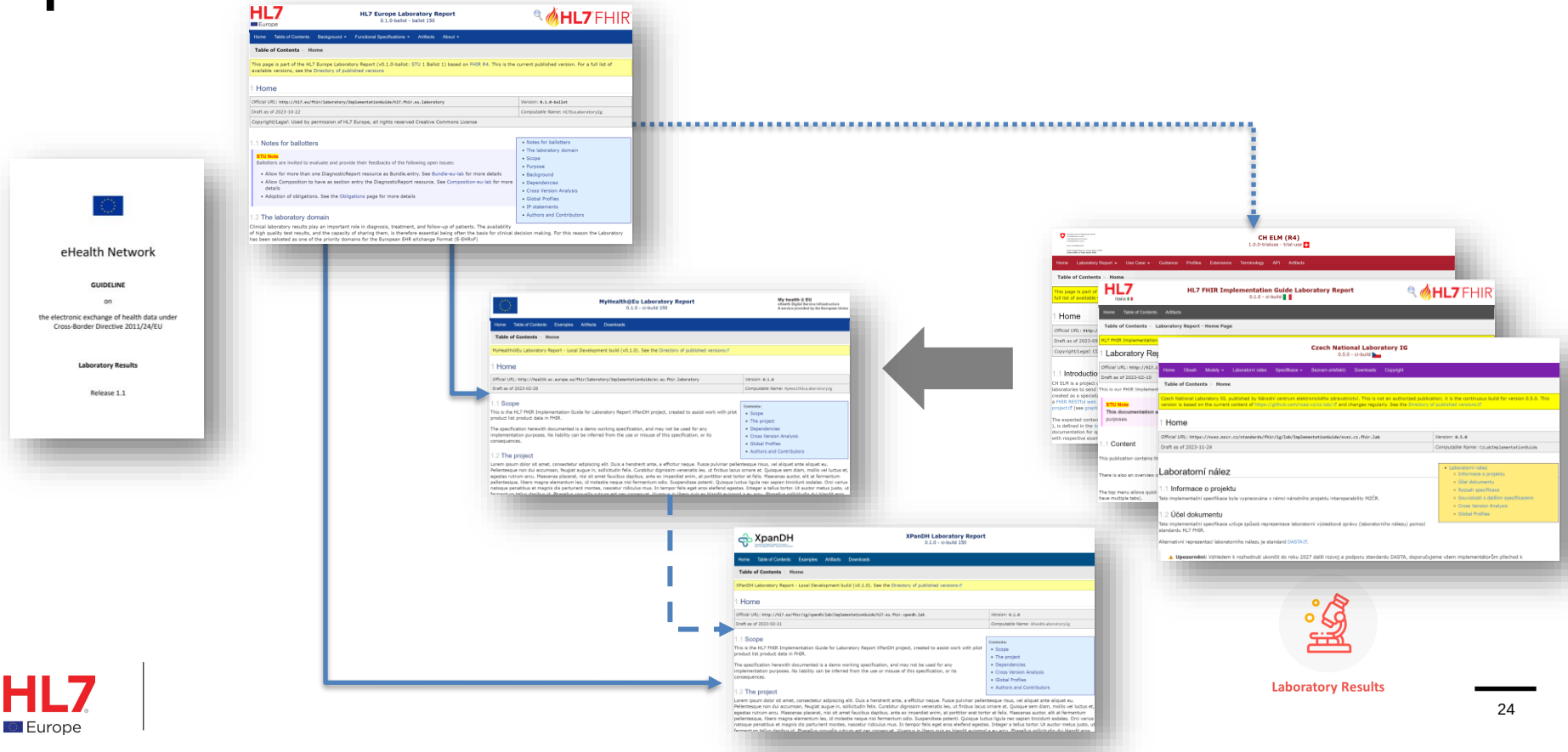


European FHIR IG

National FHIR IG

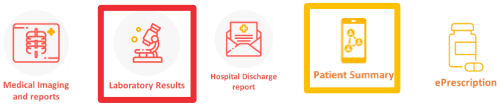
Laboratory Results

Layered Specifications: a concrete example



Layered Specifications: advantages

European EHRxF

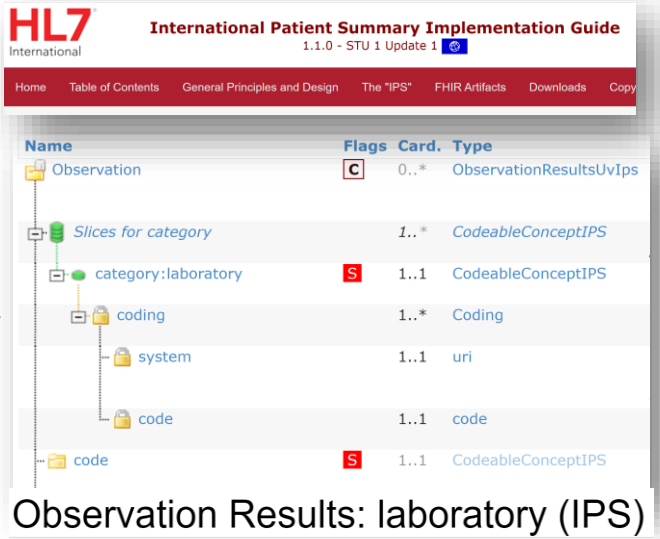


EHDS - Art 5 Priorities

It is not derived from .....

...but, when the subject is recognized and human

It is conformant with



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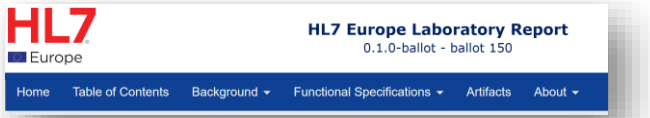
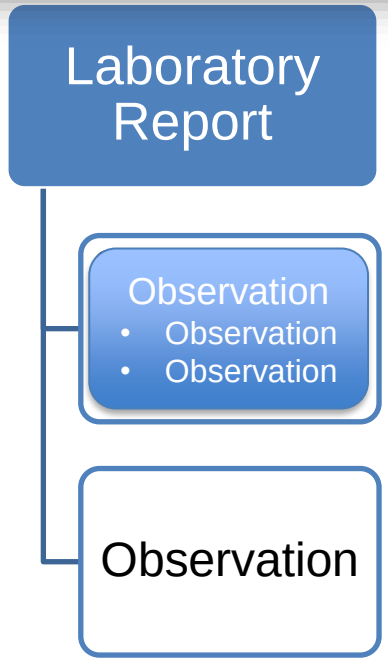
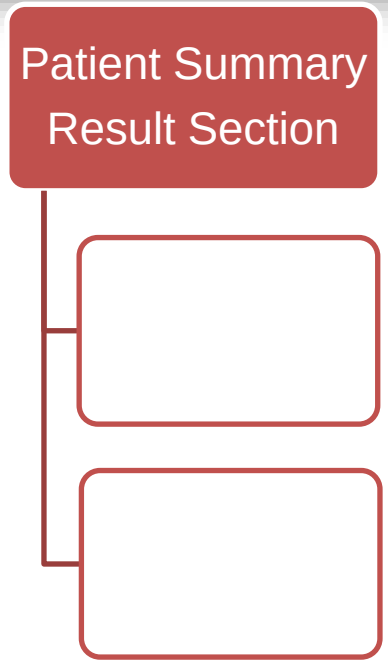
Layered Specifications: advantages







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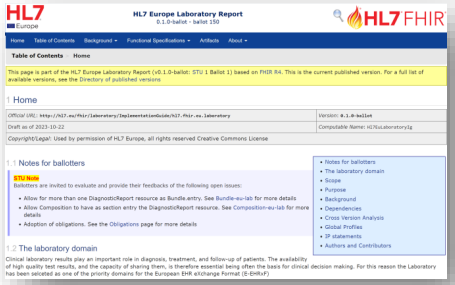
Who is involved

Laboratory Results

The result of a participatory multi-stakeholders effort



Experts from several countries

European projects and initiatives engaged (e.g. XpanDH, MyHealth@EU)

HL7 Europe Standard

Two collaborating focused sub-groups:

- functional requirements /semantic
- HL7 FHIR specifications

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What this guide is about..

Laboratory Results

https://hl7.eu/fhir/laboratory/

Laboratory Report

- No Pathology or Genetic Laboratory Report
- Complete reports with structured elements available for re-use

Only the content !

- Not how reports/results are searched and exchanged

European context

- Not only cross-border
- Reusable nationally for different use cases

Not only human beings

- Human Subjects can be “recognized” persons or not

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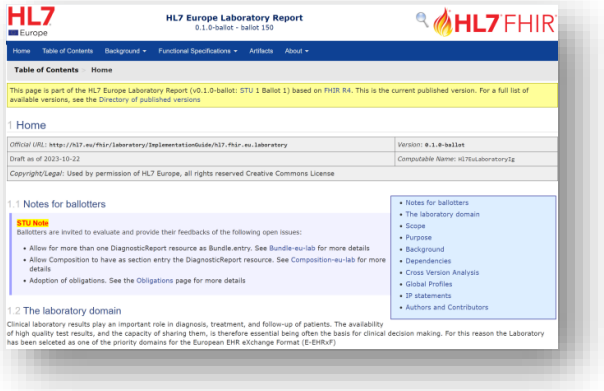
What is in..



HL7 FHIR

HL7 FHIR Logical Models

The data set

How data are represented in HL7 FHIR

Models to Profiles Mapping

HL7 FHIR Profiles

How to use HL7 FHIR

Obligations

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Guideline data set formalization

eHealth Network

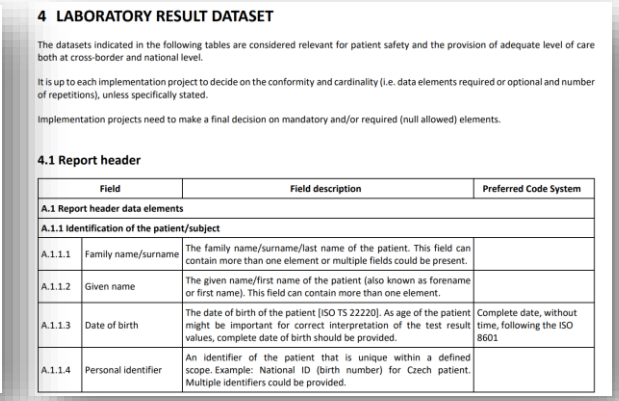
GUIDELINE

on

the electronic exchange of health data under Cross-Border Directive 2011/24/EU

Laboratory Results

Release 1.1



4 LABORATORY RESULT DATASET

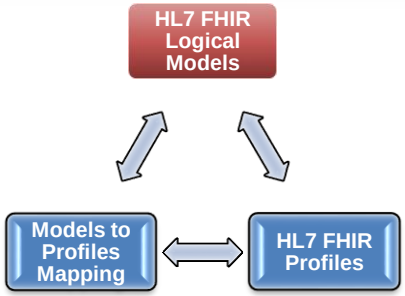
The datasets indicated in the following tables are considered relevant for patient safety and the provision of adequate level of care both at cross-border and national level.

It is up to each implementation project to decide on the conformity and cardinality (i.e. data elements required or optional and number of repetitions), unless specifically stated.

Implementation projects need to make a final decision on mandatory and/or required (null allowed) elements.

4.1 Report header

Field		Field description	Preferred Code System
A.1 Report header data elements			
A.1.1 Identification of the patient/subject			
A.1.1.1	Family name/surname	The family name/surname/last name of the patient. This field can contain more than one element or multiple fields could be present.	
A.1.1.2	Given name	The given name/first name of the patient (also known as forename or first name). This field can contain more than one element.	
A.1.1.3	Date of birth	The date of birth of the patient [ISO TS 22220]. As age of the patient might be important for correct interpretation of the test result values, complete date of birth should be provided.	Complete date, without time, following the ISO 8601
A.1.1.4	Personal identifier	An identifier of the patient that is unique within a defined scope. Example: National ID (birth number) for Czech patient. Multiple identifiers could be provided.	



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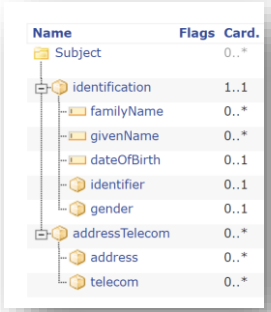
HL7 FHIR

Logical Model

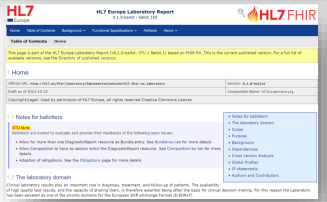
LabReport	0..*	Base	Laboratory Report
header	1..1	BackboneElement	A.1 Report header data elements
subject	1..1	Subject	A.1.1 - A1.2 Patient/subject
payer	0..1	Payer	A.1.3 Health insurance and payment information
informationRecipient	0..1	Recipient	A.1.4 Information recipient
author	0..*	Author	A.1.5 Author
legalAuthenticator	0..*	LegalAuthenticator	A.1.6 Legal authenticator
validator	0..*	Validator	A.1.7 Result validator
metadata	1..1	BackboneElement	A.1.8 Laboratory report metadata
type	1..1	CodeableConcept	A.1.8.1 Document type
status	1..1	CodeableConcept	A.1.8.2 Document status
dateTime	1..1	dateTime	A.1.8.3 Report date and time
title	0..1	string	A.1.8.4 Document title
custodian	0..1	BackboneElement	A.1.8.5 Report custodian
order	0..*	Order	A.2-A.3 Order
specimen	0..*	SpecimenLab	A.4 Specimen information
result	0..*	Result	A.5 Results data elements

Guideline data set formalization



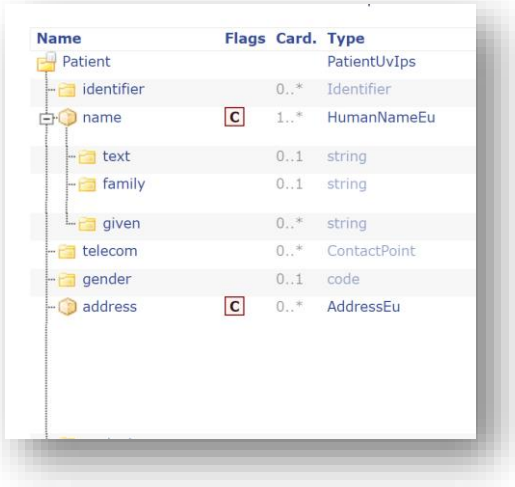
Group 1 Mapping from A1.1, A1.2 - Subject of care to Patient: Identified Person

Source Code	Relationship	Target Code
Subject.identification (A.1.1 Identification of the patient/subject)	is related to	Patient
Subject.identification.familyName (A.1.1.1 Familyname/surname)	is equivalent to	Patient.name.family
Subject.identification.givenName (A.1.1.2 Given name)	is equivalent to	Patient.name.given
Subject.identification.dateOfBirth (A.1.1.3 Date of birth)	is equivalent to	Patient.birthDate
Subject.identification.identifier (A.1.1.4 Personal identifier)		
Subject.identification.gender (A.1.1.5 Gender)		
Subject.addressTelecom (A.1.2 Patient/subject related conta		
Subject.addressTelecom.address (A.1.2.1 Address)		
Subject.addressTelecom.telecom (A.1.2.2 Telecom)		



Obligations

NEW



Structural constraints

- e.g. Patient.birthdate 0..
- Observation.code derived from the Value Set XYZ (extensible)
- ….

Functional constraints

- e.g. The sender shall populate the Patient.birthdate if known
- Observation.code.text shall be displayed by the consumer if applicable
- ….

It describes the capabilities that each Actor may, should, or shall support

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Balancing different (EU) requirements

Legally signed documents

Often structured and including different kinds of test results

Still HL7 CDA and document exchange infrastructures in use

HL7 FHIR REST consumers expect to get Laboratory Reports by **searching per DiagnosticReport**

In R5 the DiagnosticReport refers the Composition

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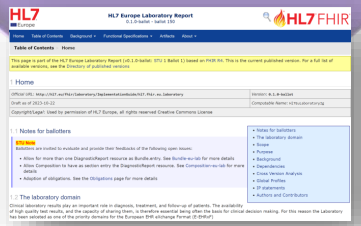
In R5 the DiagnosticReport refers the Composition

Document Bundle

Diagnostic Report

Document Bundle always including a DiagnosticReport



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Bundle (type=document)

Can be signed

Every referred object included in the bundle

As the CDA inFullfillmentOf

DiagnosticReport

Order Group ID

Order

Result

Result

Result

Specimen

Composition

Section (opt1)

Section (opt2)

Sub-Section 1

.....

Sub-Section N

Same CDA Result Sections Structure

No payers section

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Laboratory Report IG Ballot Results

Ballot Results

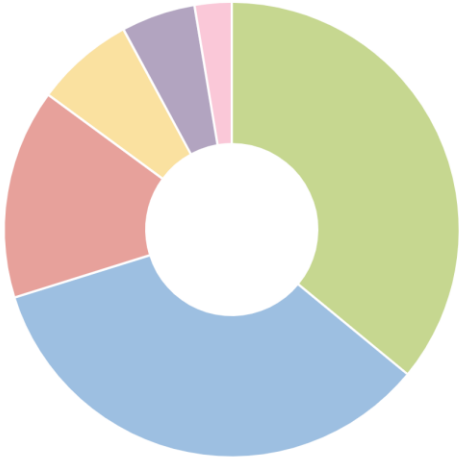
title of item up for approval w/link
HL7 EU Laboratory Report STU1 - Ballot https://hl7.eu/fhir/laboratory/0.1.0-ballot/

Project Approval Request

Scelte	Il tuo voto	Risultato attuale: (16 Voti totali)	Elettori
abstain	☐	3 Voti , 18%	*beerl@kth.se , nicolas.riss22@gmail.com , riksmithies*
affirmative	☐	9 Voti , 56%	*l.alcaro@innovazione.gov.it , oliveregger , jfcal , hynek_kruÅ¾Ák , eva.sabajova@gmail.com*
negative	☐	4 Voti , 25%	*kheitmann , alexander.mense@hl7.at , ahenket , costateixeira*

Tutti gli elettori : beerl@kth.se, theamedcom, oliveregger, chronaki, riksmithies, nicolas.riss22@gmail.com, kheitmann, alexander.mense@hl7 hynek_kruÅ¾Ák, ahenket, costateixeira

Current Ballot Reconciliation Status



Status
Total Issues: **114**

Applied	41
Triaged	39
Waiting for Input	17
Resolved - No Change	8
Duplicate	6
Resolved - change required	3

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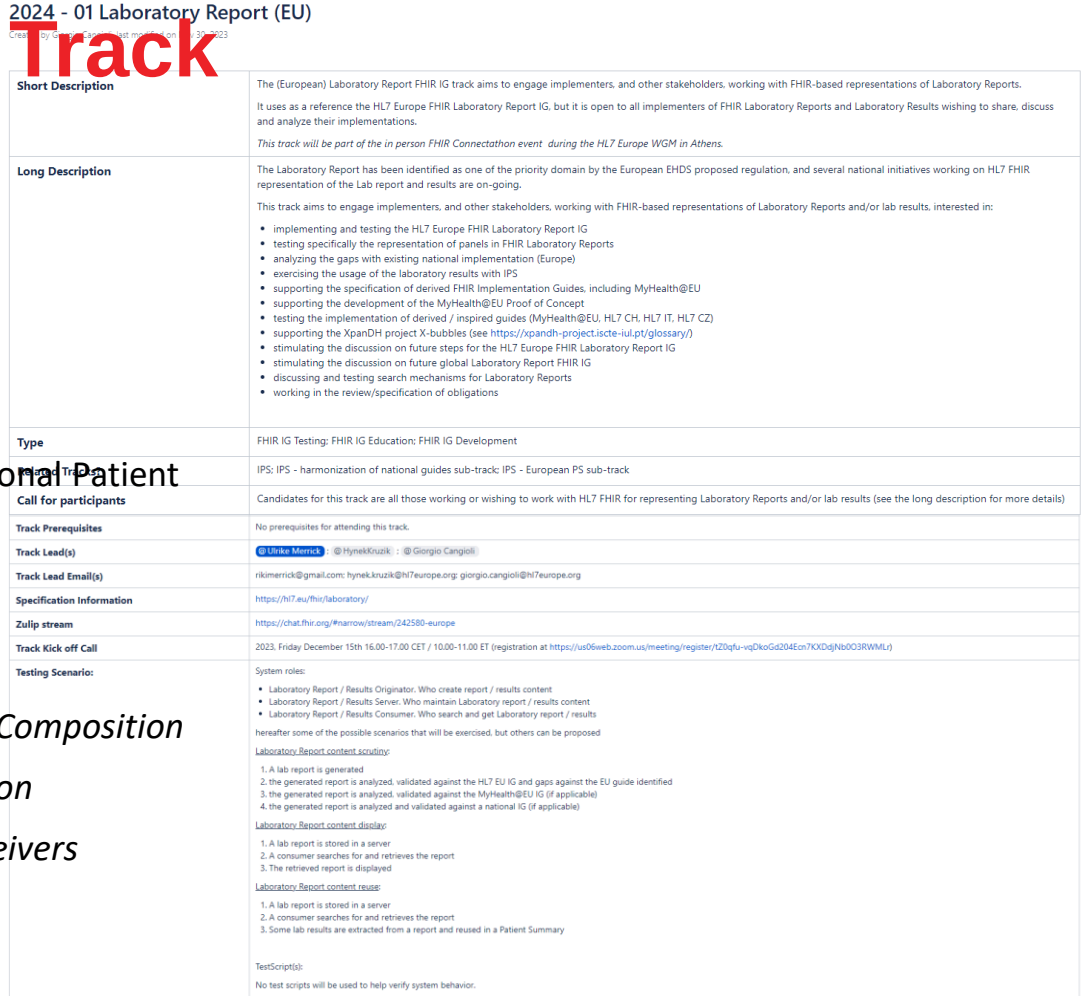
The Connectathon Track

- *EU-Laboratory Track*
- Focus on
  - Content conformance to IG
  - Retrieval of entire document
  - Retrieval of elements for reuse in International Patient Summary (IPS)
- *Track Schedule is in WHOVA*
- *Break out sessions:*
  - *1/16 8:30 – 9:30 AM ET DiagnosticReport/Composition*
  - *1/17 8:30 - 9:30 AM ET Panel Representation*
  - *1/18 7:00 – 8:00 AM ET Expectation of receivers*
- Whova tutorial
- Whova find event



2024 - 01 Laboratory Report (EU)

Short Description	The (European) Laboratory Report FHIR IG track aims to engage implementers, and other stakeholders, working with FHIR-based representations of Laboratory Reports. It uses as a reference the HL7 Europe FHIR Laboratory Report IG, but it is open to all implementers of FHIR Laboratory Reports and Laboratory Results wishing to share, discuss and analyze their implementations. *This track will be part of the in person FHIR Connectathon event during the HL7 Europe WGM in Athens.*
Long Description	The Laboratory Report has been identified as one of the priority domain by the European EHDS proposed regulation, and several national initiatives working on HL7 FHIR representation of the Lab report and results are on-going. This track aims to engage implementers, and other stakeholders, working with FHIR-based representations of Laboratory Reports and/or lab results, interested in: • implementing and testing the HL7 Europe FHIR Laboratory Report IG • testing specifically the representation of panels in FHIR Laboratory Reports • analyzing the gaps with existing national implementation (Europe) • exercising the usage of the laboratory results with IPS • supporting the specification of derived FHIR Implementation Guides, including MyHealth@EU • supporting the development of the MyHealth@EU Proof of Concept • testing the implementation of derived / inspired guides (MyHealth@EU, HL7 CH, HL7 IT, HL7 CZ) • supporting the XpanDH project X-bubbles (see https://xpandh-project.iscte-iul.pt/glossary/) • stimulating the discussion on future steps for the HL7 Europe FHIR Laboratory Report IG • stimulating the discussion on future global Laboratory Report FHIR IG • discussing and testing search mechanisms for Laboratory Reports • working in the review/specification of obligations
Type	FHIR IG Testing; FHIR IG Education; FHIR IG Development
Related Track(s)	IPS; IPS - harmonization of national guides sub-track; IPS - European PS sub-track
Call for participants	Candidates for this track are all those working or wishing to work with HL7 FHIR for representing Laboratory Reports and/or lab results (see the long description for more details)
Track Prerequisites	No prerequisites for attending this track.
Track Lead(s)	@ Ulrike Merrick ; @ HynekKruzik ; @ Giorgio Cangioli
Track Lead Email(s)	rikimerrick@gmail.com; hynek.kruzik@hl7europe.org; giorgio.cangioli@hl7europe.org
Specification Information	https://hl7.eu/fhir/laboratory/
Zulip stream	https://chat.fhir.org/#narrow/stream/242580-europe
Track Kick off Call	2023, Friday December 15th 16.00-17.00 CET / 10.00-11.00 ET (registration at https://us06web.zoom.us/meeting/register/tZ0qfu-vqDkoGd204Ecm7KXDdjNb0O3RWMLr)
Testing Scenario:	System roles: • Laboratory Report / Results Originator. Who create report / results content • Laboratory Report / Results Server. Who maintain Laboratory report / results content • Laboratory Report / Results Consumer. Who search and get Laboratory report / results hereafter some of the possible scenarios that will be exercised, but others can be proposed Laboratory Report content scrutiny: 1. A lab report is generated 2. the generated report is analyzed, validated against the HL7 EU IG and gaps against the EU guide identified 3. the generated report is analyzed, validated against the MyHealth@EU IG (if applicable) 4. the generated report is analyzed and validated against a national IG (if applicable) Laboratory Report content display: 1. A lab report is stored in a server 2. A consumer searches for and retrieves the report 3. The retrieved report is displayed Laboratory Report content reuse: 1. A lab report is stored in a server 2. A consumer searches for and retrieves the report 3. Some lab results are extracted from a report and reused in a Patient Summary TestScript(s): No test scripts will be used to help verify system behavior.

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The HL7 EU FHIR Lab Report Connectathon track in Athens
Agenda

16.00 Welcome and introduction (**Michael Strübin**, *HL7 Europe*)

16.05 The HL7 FHIR Connectathon: overview (**Giorgio Cangioli**, *HL7 Europe Technical Lead*)

16.15 Laboratory Report IG and the Connectathon track (**Riki Merrick**, *Vernetzt LLC, HL7 OO WG co-chair*)

16.25 Why health authorities and vendors should join (**Hynek Kružík**, *National eHealth Center, Czech Republic)*

16.35 Q&A

16.50 HL7 Europe WGM and FHIR marathon practicalities (**Michael Strübin**, *HL7 Europe*)

17.00 End

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Why health authorities and vendors should join

- EHDS regulation is a game changer
  - Laboratory results and reports will become a priority category of EHR
  - EEHRxF will be mandatory for all member states (Section 1, Article 3, Paragraph 2)
- Technical specifications of the EEHRxF will be included in the EC „Implementation act“ - Xt-EHR (JA-09) project

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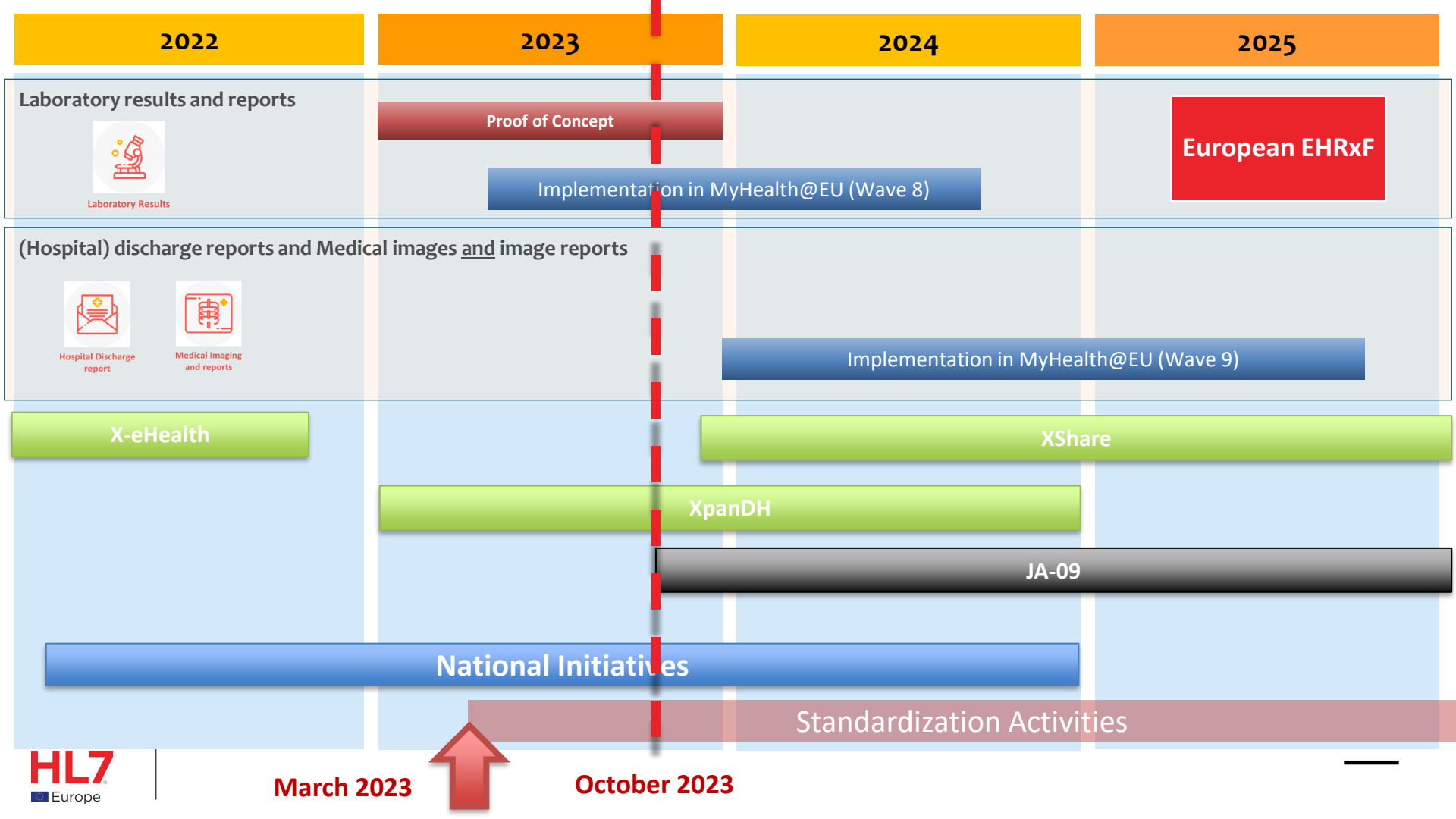
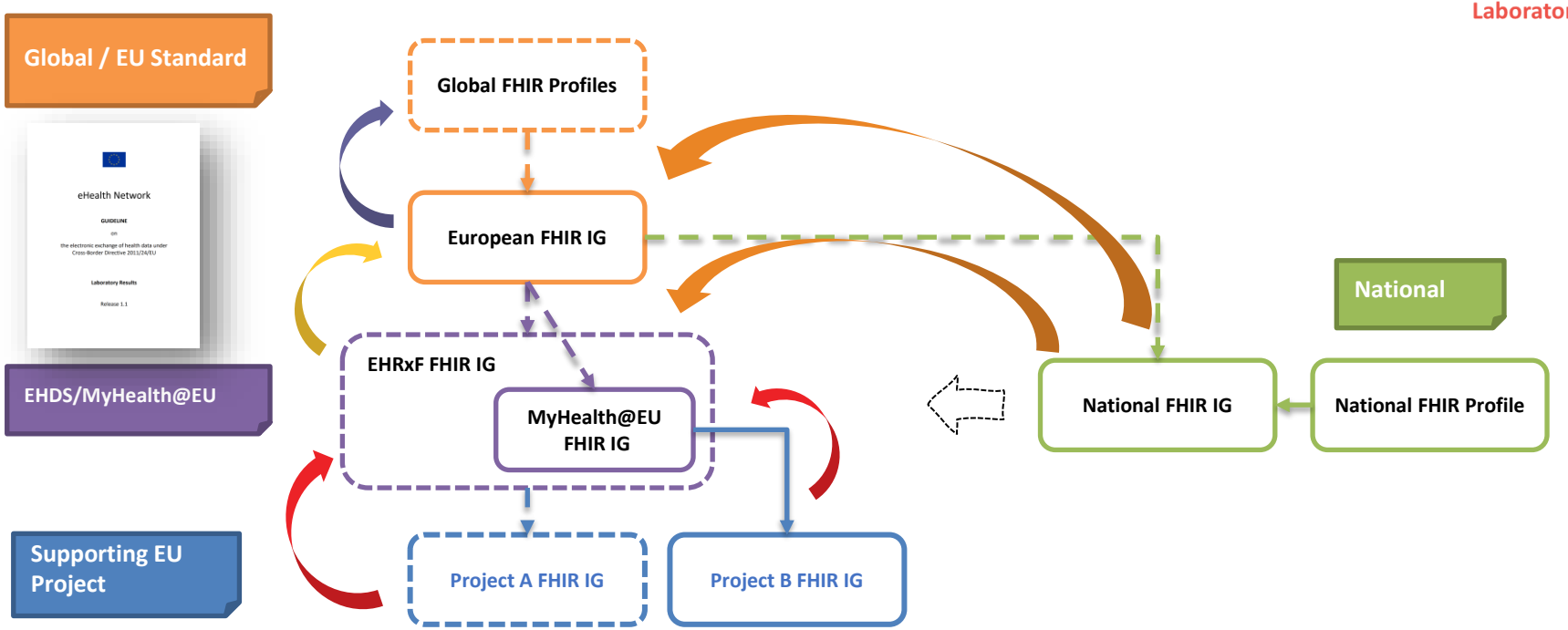

2022
2023
2024
2025
Laboratory results and reports
Laboratory Results
Proof of Concept
European EHRxF
Implementation in MyHealth@EU (Wave 8)
(Hospital) discharge reports and Medical images and image reports
Hospital Discharge report
Medical Imaging and reports
Implementation in MyHealth@EU (Wave 9)
X-eHealth
XShare
XpanDH
JA-09
National Initiatives
Standardization Activities
March 2023
October 2023

HL7 EU standardization projects

Laboratory Results



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Why health authorities should join

- EHDS implications on health authorities
  - Ensure conformity of national standards with the regulation
  - Minimize cost-impact -> harmonize national standards with EEHRxF
  - Prepare projects and incentives for national implementation of the EEHRxF compatible national data exchange format
- Authorities should be highly motivated to contribute to a meaningful, implementable, high quality European Laboratory results and result reports standard

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Why vendors should join

- EHDS represent a challenge and opportunity for vendors
- EHR systems will have to be EEHRxF conformant and will be certified by authorities
- No certification, no market !
- Vendors should be highly motivated to:
  - Contribute to high quality standard
  - Test its implement ability / fit for purpose
  - Learn from / help others how to properly implement Lab FHIR IG

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ATHENS DIGITAL HEALTH WEEK

15-19th January 2024 | Royal Olympic Hotel

CO-ORGANIZERS

HAIKA eGOVERNMENT CENTER FOR SOCIAL SECURITY SERVICES

National eHealth Authority Republic of Cyprus

HOSTED BY

HL7 Hellas

Venue: Royal Olympic Hotel

HL7 Working Group Meeting

HL7 Europe

HL7 FHIR MARATHON

VULCAN HL7 FHIR

HOSTED BY HL7 Hellas

Program Overview

Monday January 15, 2024

- Athens Digital Health Week Opening (Q1)
- HL7 European Strategic Advisory Board (Q2, Q3)
- HL7 Europe Board Meeting (Q4, Q5)
- Joint Dinner (19:30)
- **Tutorials**, see grid

Tuesday January 16, 2024

- HL7 Europe Working Group Meeting Plenary Session (Q1)
- **HL7 FHIR Marathon** (Q2, Q3, Q4), see tracks
- HL7 Working Group Meeting Thematic Workshops, see grid
- **Tutorials**, see grid
- Get Together to participate in the virtual HL7 International FHIR Connectathon 17:30-22:00

Wednesday January 17, 2024

- HL7 Europe Working Group Meeting Plenary Session (Q1)
- **HL7 FHIR Marathon** (Q2, Q3, Q4), see tracks
- xShare/xt-EHR Launch Event
- HL7 Working Group Meeting Thematic Workshops, see grid
- **Tutorials**, see grid
- Get Together to participate in the virtual HL7 International FHIR Connectathon 17:30-22:00

Thursday January 18, 2024

- Plenary Joint Session with 2nd EuroVulcan (Q1)
- EuroVulcan 2 Event (Q1, Q2, Q3, Q4) - by invitation only, download preliminary program.
- **HL7 FHIR Marathon** (Q1, Q2, Q3, Q4), see tracks
- Gravitate-Health Hackathon (Q1, Q2, Q3, Q4), more Information
- xShare/xt-EHR Launch Event
- Joint launch event xt-EHR & xShare (under Athens Digital Health Week)
- HL7 Working Group Meeting Thematic Workshops, see grid
- **Tutorials**, see grid
- Get Together to participate in the virtual HL7 International FHIR Connectathon 17:30-22:00

Friday January 19, 2024

- HL7 Europe Working Group Meeting Closing Plenary Session (Q1)
- Gravitate-Health Hackathon
- HL7 Working Group Meeting Thematic Workshops, see grid

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Tutorials

- FHIR for Starter
- FHIR Advanced
- Introduction to SNOMED
- Electronic Product Identification (ePI) / eLabeling
- Identification of Medicinal Products (IDMP)
- Introduction to LOINC
- A Guide to FHIR Implementation Guides
- **HL7 Europe Lab Report Implementation Guide**
- Leveraging OMOP and FHIR in Europe
- The International Patient Summary (IPS)
- CDISC and HL7: Optimizing the Flow of Clinical Research Data for Patients

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Thematic Workshops

- SQL on FHIR 2.0: Unlocking FHIR Data
- HL7 and IHE in Europe Collaboration
- Label2Enable workshop
- Interoperability of Primary Child Health Data
- Notified Pull

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Plenary Roundtables Keynotes (preliminary) – Daily 9:00-10:30

Athens 15-19 January 2024

- Opening Plenary keynotes: **Focus on standards**
  - Monday January 15, 2023,
- Plenary Keynotes: **Focus on EHDS and EHRxF**
  - Tuesday January 16, 2023
- Plenary Keynotes: **Focus on AI**
  - Wednesday January 17, 2023
- Joint EuroVulcan plenary: **Regulatory aspects of medicines**
  - Thursday January 18, 2023
- Closing plenary: Looking Forward - **Bridging Health & Care, Public/Population Health and Clinical Research**
  - Friday January 19, 2023

Register now: HL7 Europe Working Group Meeting and FHIR Marathon January 15 to 19, 2024

We are happy to announce our first event of this kind. From January 15 to 19, 2024, we will hold an **HL7 Europe Working Group Meeting** along with an **HL7 FHIR Marathon**.

Register for the conference here **Book a room in the conference hotel**

During Tuesday to Thursday before lunch, a EU centric HL7 FHIR Marathon will be conducted. Topics/tracks planned are the European Lab Report, International Patient Summary IPS, European Cancer Mission, Electronic Product Information (ePI) and Identification of Medicinal Products (IDMP).

During Wednesday to Friday afternoons, a Gravitate-Health Hackathon and Thursday the EU edition of the Vulcan Accelerator is planned.

There will be plenaries with with outstanding Keynote speakers and Roundtables on:

- Monday January 15, 2024

eventora.com/en/Events/2HL7EuropeWorkingGroupMeetingandHL7FHIRMarathon

2023-proposals china mine x-PANDS oneAquaHealth Gatekeeper PCSP IDEA4RC UNICOM Gravitate Health thesis kuleuven Philips HL7 old-proposals music AI valuebased TweetD

eventora

HL7 Europe Working Group Meeting and HL7 FHIR Marathon

Share Share Tweet

		Select
HL7 Europe WGM and HL7 FHIR Marathon - Early fee (available until 10/12/2023) Description +	€399.00	☐

Additional Tutorial (s)

		Select
FHIR for Starters, Monday Q2	€90.00	☐
FHIR Advanced, Monday Q3	€90.00	☐
Introduction to SNOMED, Monday Q4	€90.00	☐
Electronic Product Identification (ePI) / eLabeling, Tuesday Q2	€90.00	☐
Identification of Medicinal Products (IDMP), Tuesday Q3	€90.00	☐
Introduction to LOINC, Tuesday Q4	€90.00	☐
A Guide to FHIR Implementation Guides, Wednesday Q2	€90.00	☐
HL7 European Lab Report Implementation Guide), Wednesday Q3	€90.00	☐
Introduction to GS1 Standards, Wednesday Q4	€90.00	☐

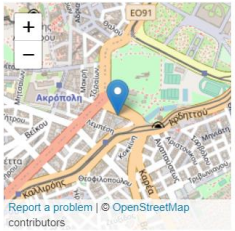
When?

Monday, January 15, 2024 10:00 AM
-
Friday, January 19, 2024

Add to your calendar

Where?

Royal Olympic Hotel
28, Athanasiou Diakou str.
117 43 Athens
Athens,Greece



Click for larger map

HL7 Europe WGM2024 Organizing Committee

- Kai Heitmann (chair)
- Catherine Chronaki
- Julia Skapik
- Giorgio Cangioli
- Robert Stegwee
- Anne Moen
- Henrique Martins
- Line Andreassen
- Jens Villadsen
- Roeland Luykx
- Hynek Kružík
- Luc Chatty
- Roberta Gazzerata

- Contact: wgm2024@HL7europe.org

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Wrap up

- All attendees are invited to
  - Join us in Athens = https://www.eventora.com/en/Events/2HL7EuropeWorkingGroupMeetingandHL7FHIRMarathon
  - Become or stay involved
  - Follow HL7 Europe on LinkedIn = https://www.linkedin.com/company/hl7-europe/

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