

EEHRxF: HL7 FHIR profiling in the EU

Giorgio Cangioli

Technical Lead - HL7 Europe

FHIR Fagforum
Virtual, 22 October 2025





Who am I

Giorgio Cangioli, PhD FHL7

- *Senior Consultant*
- *Technical Lead and Board member, HL7 Europe*
- *TSC and Board member, HL7 International*
- *Chair of the eHMSEG STF Architecture WG*
- *Author of several UV and EU HL7 CDA and FHIR IGs*

Disclaimer



Any views or opinions expressed in this presentation are those of the author and do not necessarily represent official policy or position of the organizations mentioned.

One and half year ago ..

The HL7 Europe
Laboratory Report FHIR IG

Giorgio Cangioli
Technical Lead HL7 Europe

fagforum, April 17th 2024



What's up since then ?

EHR

EHDS Logical Information Models
0.2.0 - ci-build

Home Introduction - EHDS Use Cases - About - Artifacts - Download

Table of Contents Home

This guide includes logical information models created in X-EHR project. These models are the basis for designing the EHDS data exchange format (EHDS).

Official URL: https://www.x-ehr.eu/specifications/fhir/ImplementationGuide/xr_ehds_models

Draft as of 2023-09-24

Version: 0.2.0
Comparable Name: EHDSmodels

1 Home

1.1 Introduction

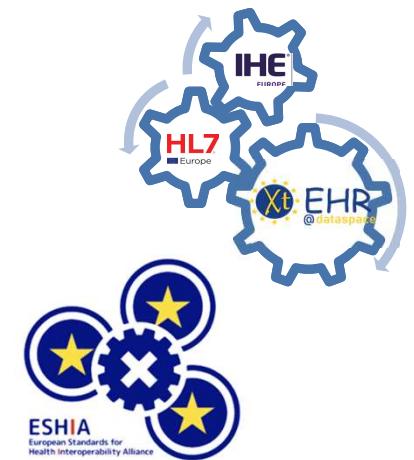
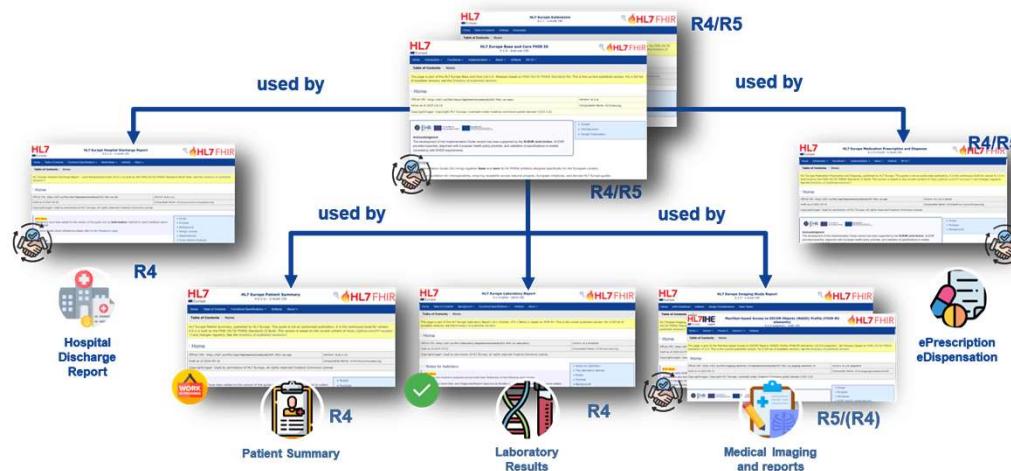
This implementation guide includes logical information models created in X-EHR project. These models are the basis for designing the EHDS data exchange format (EHDS).

1.2 Specification

This guide includes EHDS models for all the priority categories, and many of the models are shared between use cases.

HL7 FHIR Implementation Guides for the EHR4 are created in cooperation with other EU projects working on EHDS implementation (please find the links under specific use cases).

Logical Information Models (LIM) should be used as a basis for all the use cases to make sure common data objects (patient, medication, etc.) are modelled in a consistent way.



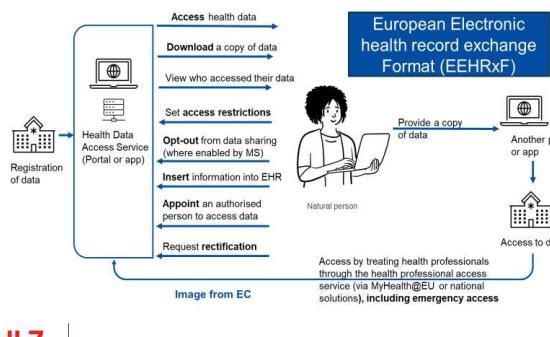
SETTING THE SCENES



The European “Format”



EHDS : Primary use



HL7
Europe

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Priority categories for primary use



Member States may provide by virtue of national law that additional categories of personal health data are to be accessed and exchanged for primary use

The Commission is empowered to adopt delegated acts [...] by adding, modifying or removing the main characteristics of the priority categories

HL7
Europe

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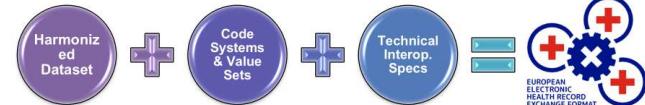
Discharge report



The European EHR eXchange Format

“Such format shall be **commonly used, machine-readable** and allow **transmission** of personal electronic **health data** between different software applications, devices and healthcare providers.

Such format shall support transmission of **structured** and **unstructured** health data...” (EHDS art. 15)



HL7
Europe

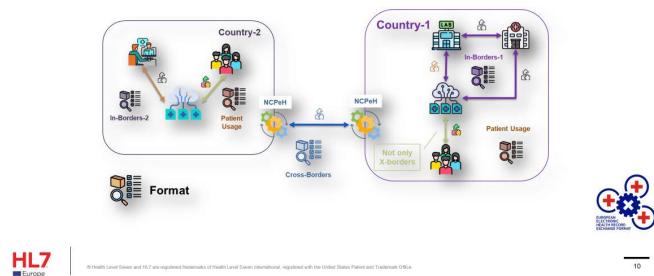
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HL7
Europe

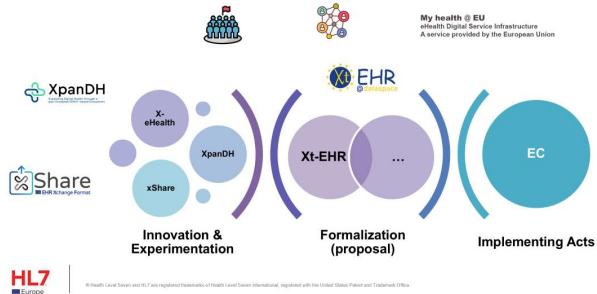
Key elements



Not only cross-border !

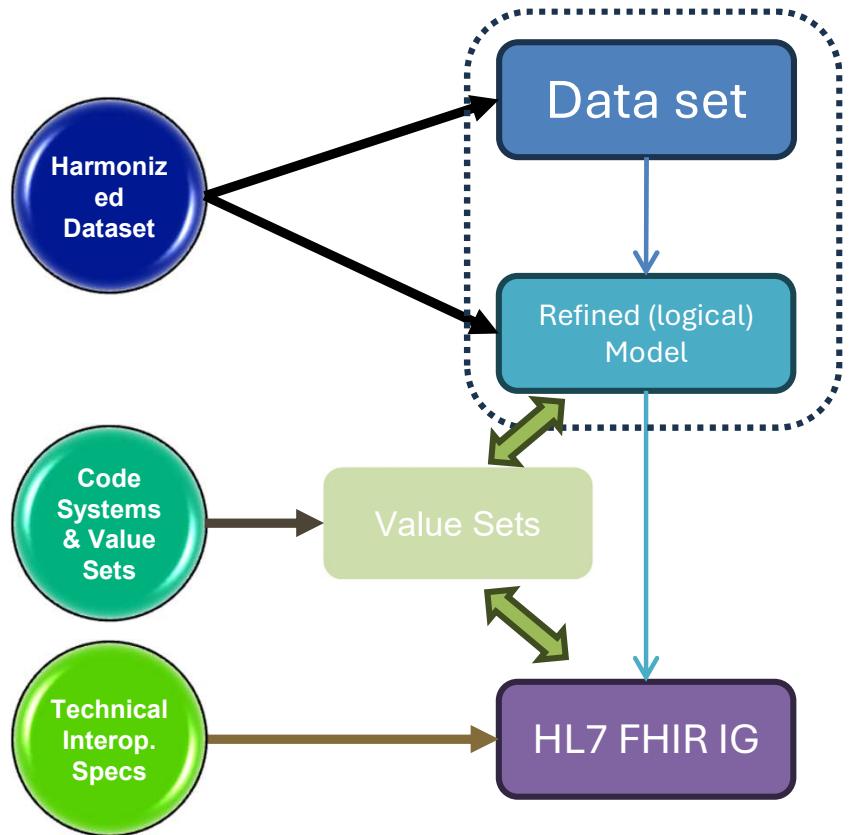


Several actors engaged



The “format” will be formally defined by European Commission in the Implementing Act !

The EEHRxF (as of today)



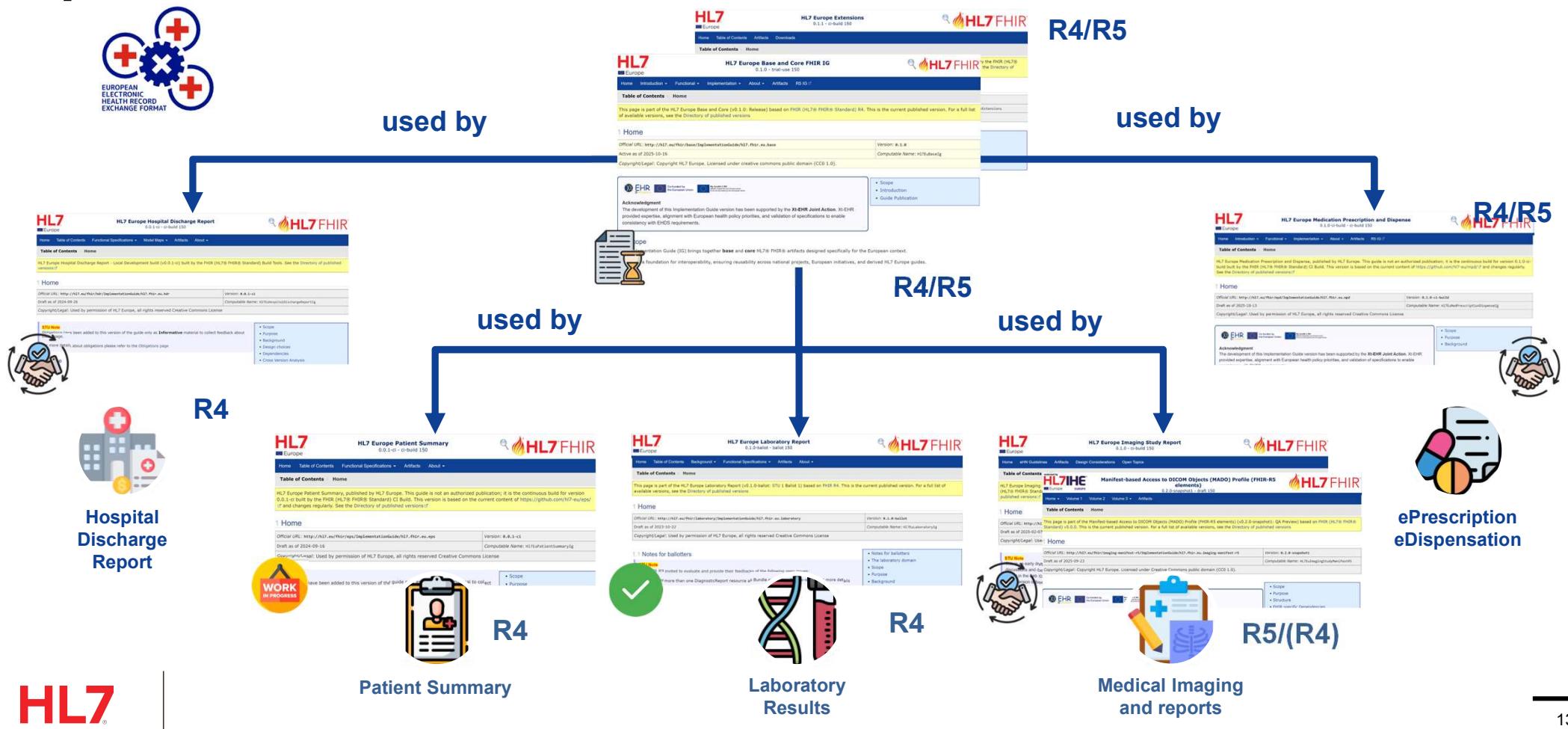
eHN Guidelines – data sets

https://health.ec.europa.eu/publications_en

The screenshot displays two web pages side-by-side. The left page is titled 'eHN Guidelines – data sets' and shows a URL: https://health.ec.europa.eu/publications_en. The right page is titled 'HL7 FHIR' and shows a URL: <https://www.xt-ehr.eu/fhir/models>. Both pages show navigation menus and some descriptive text or tables.

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The HL7 FHIR IG ecosystem for EHDS



Latest releases



Laboratory Report: <https://hl7.eu/fhir/laboratory>



Hospital Discharge Report: <https://hl7.eu/fhir/hdr>



European Patient Summary: no publications



Medical imaging Report: <https://hl7.eu/fhir/imaging/snapshot1>

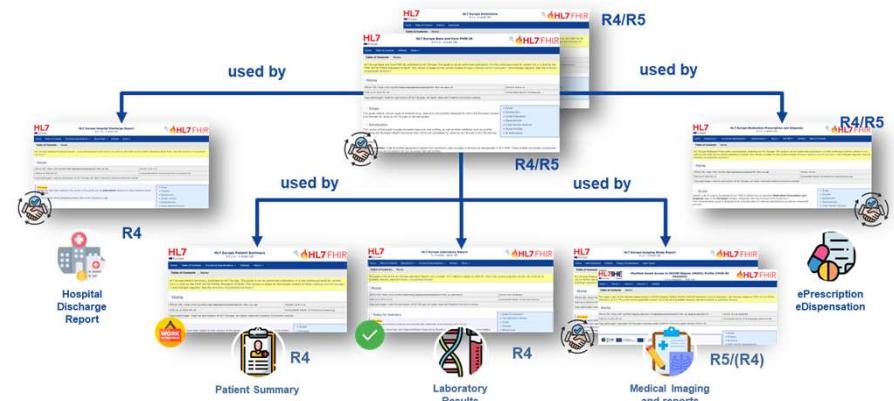
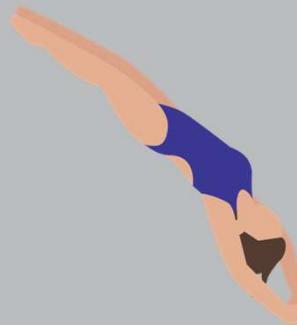


Medication Prescription & Dispense: <https://hl7.eu/fhir/mpd>; <https://hl7.eu/fhir/mpd-r5>



All CI-build: <https://build.fhir.org/hl7-eu>

DIVING-IN



EU Extensions

HL7 Europe Extensions 0.1.1-ballot - ballot 150

Home Introduction About Artifacts

Table of Contents Home

HL7 Europe Extensions, published by HL7 Europe. This guide is not an authorized publication; it is the continuous build for version 0.1.1-ballot built by the FHIR (HL7® FHIR® Standard) CI Build. This version is based on the current content of <https://github.com/hl7-eu/extensions/> and changes regularly. See the [Directory of published versions](#).

1 Home

Official URL: http://hl7.eu/fhir/extensions/ImplementationGuide/hl7_fhir_eu_extensions Version: 0.1.1-ballot

Draft as of 2025-04-23 Computable Name: HL7EuExtensions

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1.1 Scope

This guide sets out a collection of HL7 Europe extensions designed for applicability within the EU realm.

This includes extensions defined for HL7 Europe implementation guides, such as:

- HL7 Europe Laboratory Report
- HL7 Europe Medication Prescription and Dispense
- HL7 Europe Hospital Discharge Report
- HL7 Europe Imaging Study Report
- HL7 Europe European Patient Summary
- HL7 Europe Base



<https://hl7.eu/fhir/extensions>

5.2.1 Release-specific NPM Package and Definitions

- R4 NPM Package
- R5 NPM Package

5.3 Examples



Publication (Version) History

This guide lists the extensions specified for the European REALM.

The following versions have been published:

Date	IG Version	FHIR Version	Description	Links
Current Versions				
2025-04-30		0.1.1-ballot	5.0.0	Version used for the HL7 EU MPD ballot. First version covering both HL7 FHIR R4 and R5.
(current)		(last commit - if in the last 3 months)	n/a	undefined
Release Sequence				
2025-09-21		0.1.1-snapshot	5.0.0	This is a snapshot of the STU 1 version created for supporting the Xt-EHR stakeholder consultation. It is provided for review use only, and is not intended for production use. The official version will be published as part of the STU release.
2025-04-30		0.1.1-ballot	5.0.0	Version used for the HL7 EU MPD ballot. First version covering both HL7 FHIR R4 and R5. (Permanent Home)
2024-02-20		0.1.0	4.0.1	This is the first STU version released

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EU Base and Core



Publication Pending

The screenshot shows the homepage of the HL7 Europe Base and Core FHIR IG. At the top, there's a navigation bar with links for Home, Introduction, Functional, Implementation, About, Artifacts, and R5 IG. Below the navigation is a search bar and the HL7 FHIR logo. A yellow banner at the top states: "This page is part of the HL7 Europe Base and Core (v0.1.0: Release) based on FHIR (HL7® FHIR® Standard) R4. This is the current published version. For a full list of available versions, see the [Directory of published versions](#)". The main content area has a blue header "Table of Contents > Home". Below it, there's a summary table with columns for "Official URL", "Version", and "Computable Name". The "Official URL" row contains "http://hl7.eu/fhir/base/ImplementationGuide/hl7.fhir.eu.base" and "0.1.0" respectively. The "Computable Name" row contains "HL7EuBaseIG". Further down, there's an "Acknowledgment" section with logos for X-EHR, Co-funded by the European Union, and My Health IT EU. It also mentions the support of the X-EHR Joint Action. On the right side of the main content area, there's a sidebar with links for Scope, Introduction, and Guide Publication.



<https://hl7.eu/fhir/base>



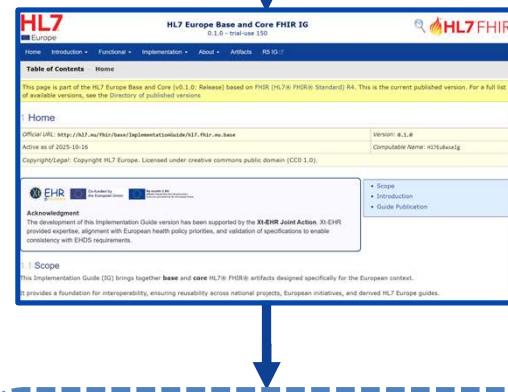
<https://hl7.eu/fhir/base-r5>



Extensions (R4/R5)



Base and Core (R4/R5)



Scoped HL7 EU IGs (R4/R5)



Base

- **Baseline for all HL7 Europe profiles.**
- **Loosely constrained**, providing a flexible foundation.
- **Rarely used “as is”, but always extended or specialized.**

Core

- Defines **essential constraints** that cut across many use cases.
- Serves as the **first reference point** for the large majority of HL7 Europe FHIR IGs.
- Can often be used **“as is”**, without further refinement.
- Realizes the **common EHDS logical models** in practice.

Core Profiles

Base Profiles

11.0.1 HL7 Europe Base Profiles
Base profiles for the European context.

BodyStructure (EU base)	This profile specifies how the conveying commonly used concepts in the European context.
Location (EU base)	This profile sets minimum requirements for the purpose of this guide.
Organization (EU base)	This profile specifies how the commonly used concepts in the European context.

Derived from

11.0.2 HL7 Europe Core Profiles

Core profiles for the European context.

Organization (EU core)	This profile sets requirements for the European context.
Patient (EU core)	This profile sets requirements for the Patient profile.
Patient: Animal (EU core)	This profile defines species when a species is mentioned.

Used by



HL7 Europe IGs



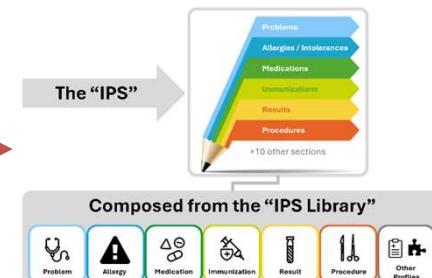
EHDS Models

Realise

Pursue Alignment with

HL7 FHIR IPS

The "IPS"



EU Base and Core

- Patient, Practitioner, Organization, Location Resources

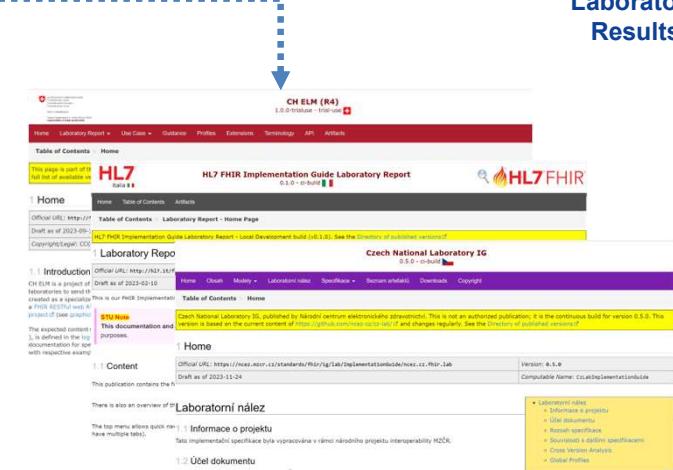
Body structure (EU base)	This profile specifies how the HL7 FHIR BodyStructure resource should be used for conveying commonly used concepts in the European context.
Coverage: EHIC	Coverage profile for the European Health Insurance Card
Location (EU base)	This profile sets minimum expectations for the Location resource to be used for the purpose of this guide.
Organization (EU base)	This profile specifies how the HL7 FHIR Organization resource should be used for conveying commonly used concepts in the European context.
Organization (EU core)	This profile sets minimum expectations for the Organization resource common to most of the use cases.
Patient (EHIC)	This profile represents the constraints applied to the Patient resource when used with the EHIC coverage profile.
Patient (EU base)	This profile specifies how the HL7 FHIR Patient resource should be used for conveying commonly used concepts in the European context.
Patient (EU core)	This profile sets minimum expectations for the Patient resource common to most of the use cases. When the ips-pat-1 invariant is satisfied (Patient.name.given, Patient.name.family or Patient.name.text SHALL be present) then this profile complies with the IPS patient profile.
Patient: Animal	This profile defines how to represent an Animal as subject of care in FHIR for the purpose of this guide. This is used to identify the species when a specimen is collected from an animal
Practitioner (EU base)	This profile specifies how the HL7 FHIR Practitioner resource should be used for conveying commonly used concepts in the European context.
Practitioner (EU core)	This profile sets minimum expectations for the Practitioner resource common to most of the use cases.
PractitionerRole (EU base)	This profile specifies how the HL7 FHIR PractitionerRole resource should be used for conveying commonly used concepts in the European context.
PractitionerRole (EU core)	This profile sets minimum expectations for the PractitionerRole resource common to most of the use cases.

Laboratory Report



Standard
(EU/UV
scope)

HL7® FHIR® R4



National Guides

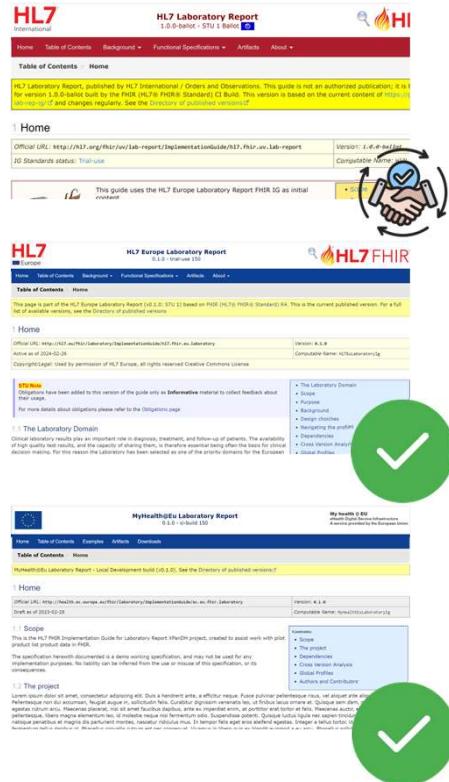


EU X-Borders



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Laboratory Report



The image displays three versions of the HL7 Laboratory Report interface side-by-side, each featuring a prominent green checkmark icon.

- HL7 International:** Shows the official HL7 Laboratory Report website with a yellow header bar and a search bar containing the HL7 logo.
- HL7 Europe:** Shows the HL7 Europe Laboratory Report website, which is based on the HL7 FHIR Standard. It includes a "HL7 FHIR" logo and a "HL7 FHIR Standard" badge.
- MyHealthEU:** Shows the MyHealthEU Laboratory Report interface, which is a FHIR implementation guide for laboratory reports. It also includes a "HL7 FHIR Standard" badge.

<https://build.fhir.org/ig/HL7/uv-lab-rep-ig/>

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

<https://build.fhir.org/ig/hl7-eu/laboratory/>



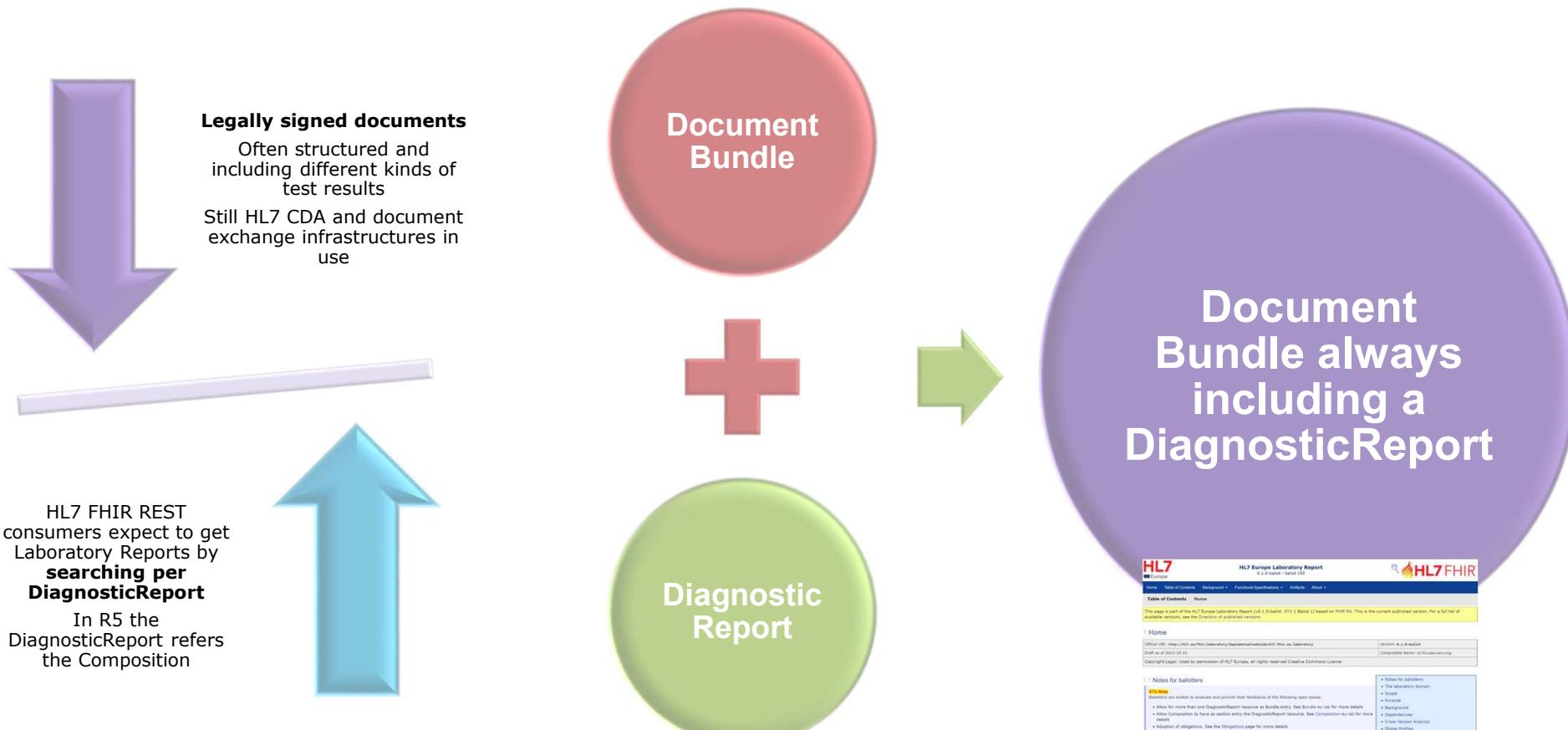
**Laboratory
Results**

<https://fhir.ehdsi.eu/laboratory/>

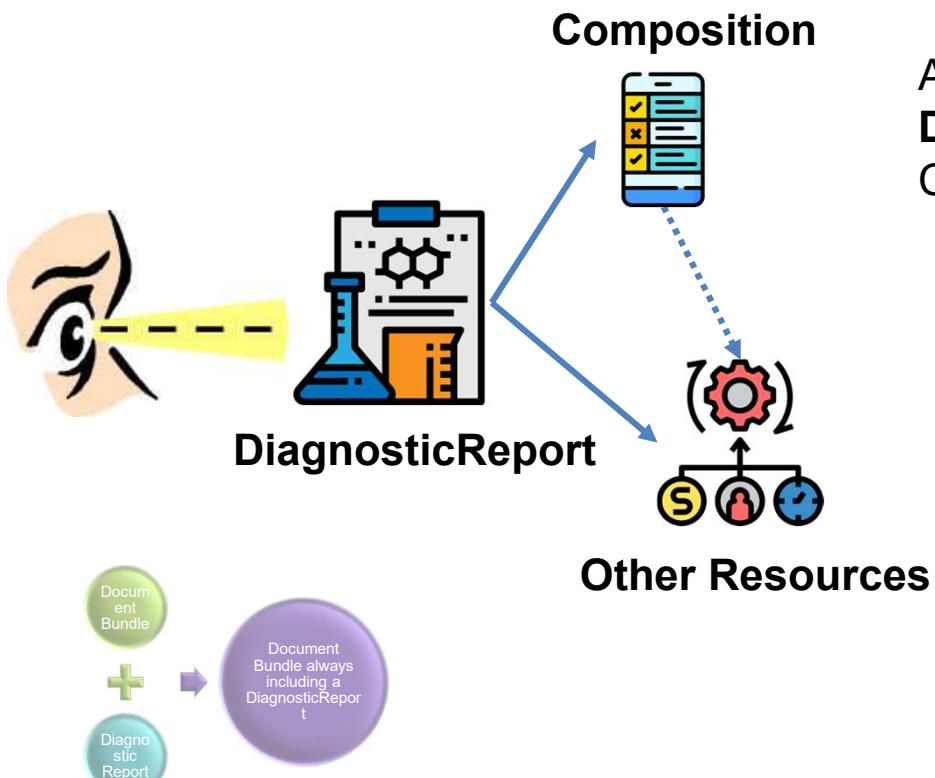
<https://build-fhir.ehdsi.eu/laboratory/>



Balancing different requirements



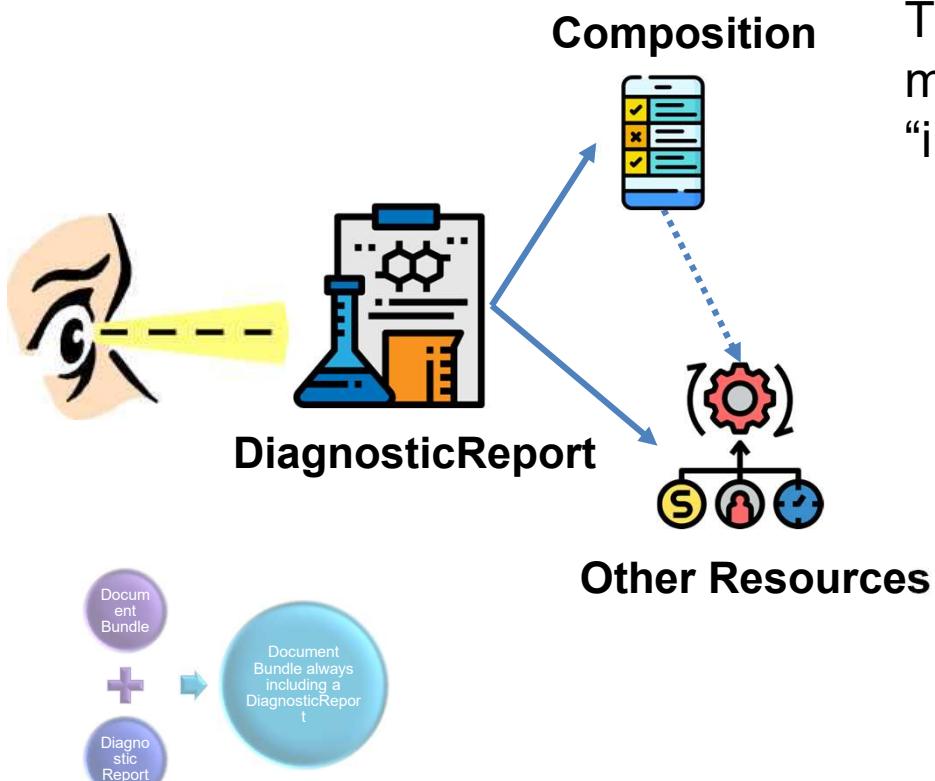
The Laboratory Report



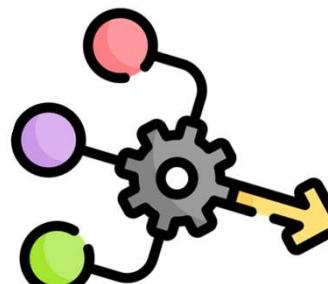
A Lab report is always **represented by a DiagnosticReport**. This resource always refers a Composition

The **Composition defines** the report **structure** (it might be just a single section) and it acts as an “index” for all the used resources

The Laboratory Report

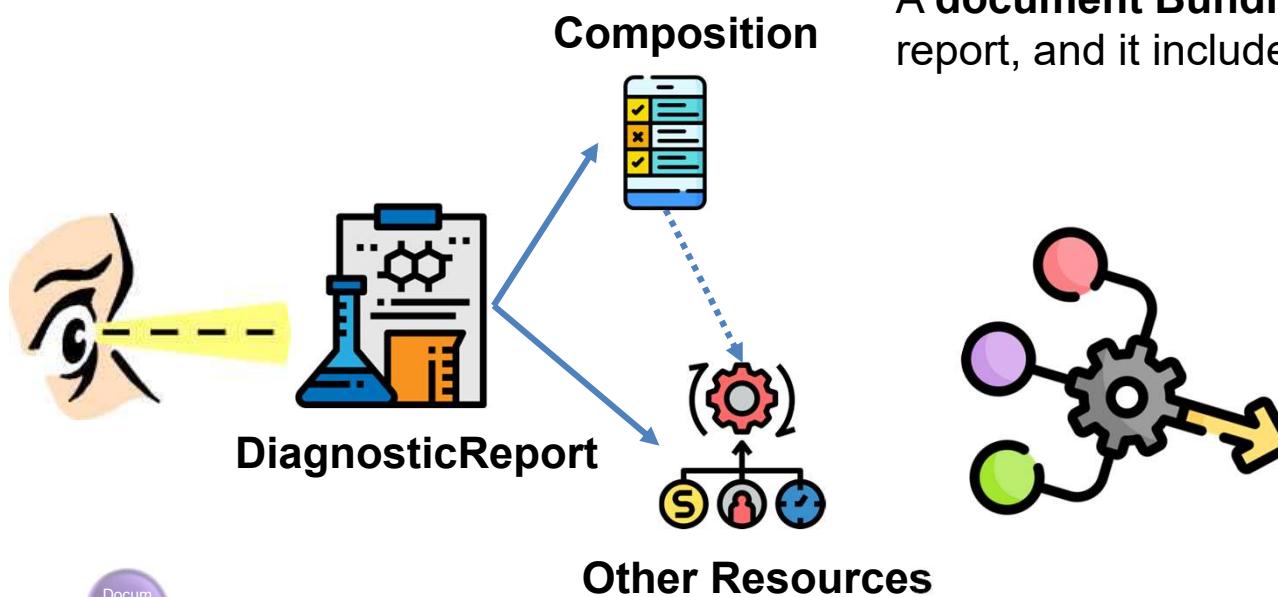


The **Composition** defines the report **structure** (it might be just a single section) and it acts as an “index” for all the used resources

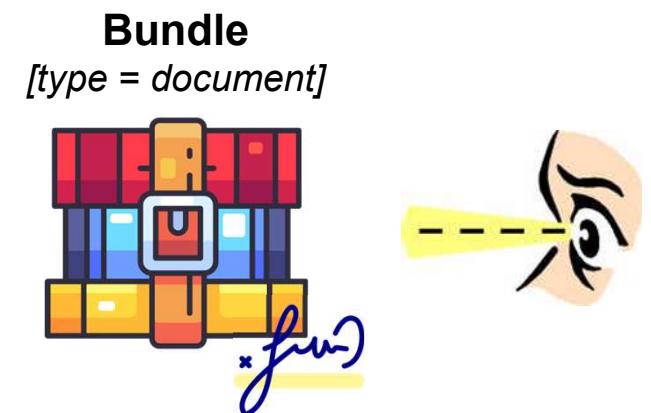


It is the mean for assembling the report as a document (**document Bundle**)

The Laboratory Report



A **document Bundle** represents the legally signable report, and it includes all the data defining the report.



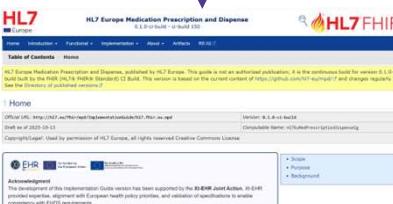
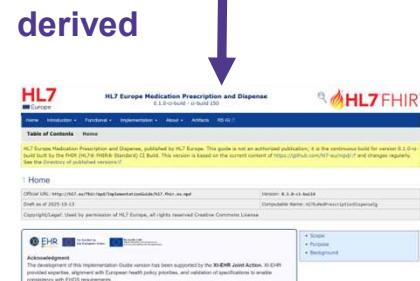
Medication Prescription & Dispense



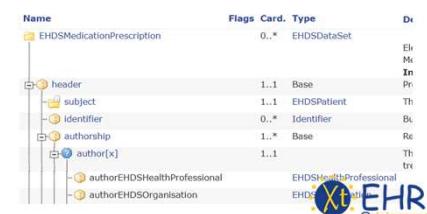
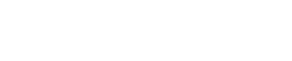
ePrescription
eDispensation



aligned



derived



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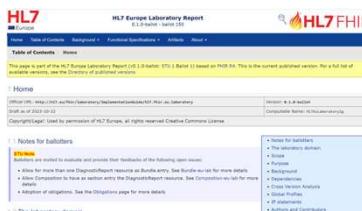
Medication Prescription & Dispense



<https://profiles.ihe.net/PHARM/MPD/>



<https://hl7.eu/fhir/mpd>



<https://hl7.eu/fhir/mpd-r5>



Medication Prescription & Dispense

In Scope

Prescription for

- a medicinal product
- issued by a health professional
- for a patient
- to be dispensed by a pharmacy.

Dispense of

- a medicinal product
- by a pharmacy,
- including online pharmacy,
- to a natural person
- based on a prescription.

Declining a dispense

Out of Scope

- Hospital use (in scope for IHE MPD)
- Workflow (in scope for IHE MPD)
- Reimbursement
- Prescription list
- Non-medication
- Requests to administrating devices

Medication Prescription & Dispense

Situations addressed

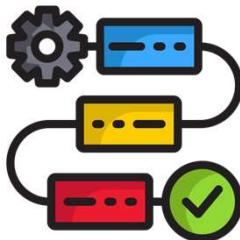
- Multi-item prescriptions, single-item dispenses
- Indication (Optional)
- Additional health information not on prescription
- Extensions on Medication to allow detailed description of the product
- Flirting with ISO IDMP to facilitate data flow from medicines agencies
- Flexible dosing information
- Flexible use of code systems

Courtesy of Rutt Lindström

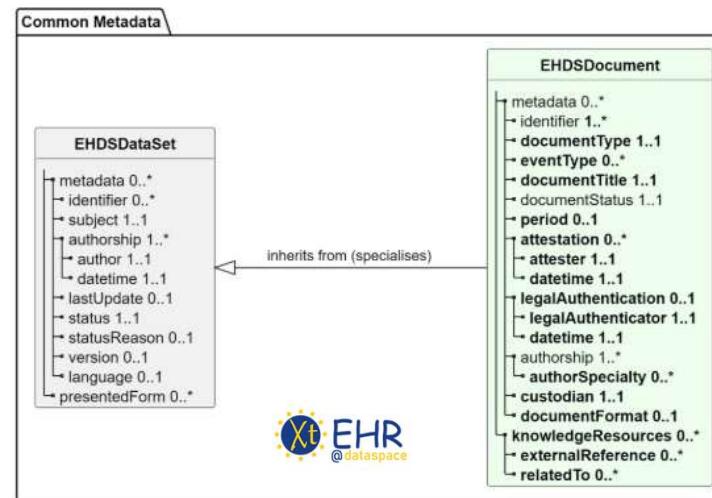
Not documents, but always structured



ePrescription



eDispensation



Laboratory Results



Medical Imaging report



Patient Summary



Hospital Discharge Report

Hospital Discharge Report



HL7 Europe Hospital Discharge Report
0.0.1-ci - ci-build 150

Table of Contents Home

HL7 Europe Hospital Discharge Report - Local Development build (v0.0.1-ci) built by the FHIR (HL7® FHIR® Standard) Build Tools. See the Directory of published versions.¹

1 Home

Official URL: <http://hl7.eu/fhir/hdr/ImplementationGuide/hl7.fhir.eu.hdr> Version: 0.0.1-ci
Draft as of 2024-09-26 Computable Name: HL7EuHospitalDischargeReportIG

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STU Note
Obligations have been added to this version of the guide only as **Informative** material to collect feedback about their usage.
For more details about obligations please refer to the [Obligations page](#)

1.1 Scope

- Scope
- Purpose
- Background
- Design choices
- Dependencies
- Cross Version Analysis



Hospital Discharge Report

MyHealth@EU - Health Digital Service Infrastructure
A service provided by the European Union

MyHealth@Eu Hospital Discharge Report Report
0.0.1 - qa-preview 150

Home Table of Contents About this guide HL7-EU-HDR IG Functional Specifications Concept Maps Artifacts Downloads

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MyHealth@EU Hospital Discharge Report - Local Development build (v0.0.1) built by the FHIR (HL7® FHIR® Standard) Build Tools. See the Directory of published versions.¹

1 Home

Official URL: <http://fhir.ehdsi.eu/hdr/ImplementationGuide/myhealth.eu.fhir.hdr> Version: 0.0.1
Draft as of 2024-10-14 Computable Name: MyHealth@EuHospitalDischargeReportIG

Note
Obligations have been added to this version of the guide only as **Informative** material to collect feedback about their usage.
For more details about obligations please refer to the [Obligations page](#)

1.1 Scope

Specify a set of rules to be applied to HL7 FHIR to define how to represent a **Hospital Discharge Report** for the European cross-borders exchange, coherently with the European eHN Guidelines (see the [European eHealth - Key documents](#)).

This guide is derived for the HL7 FHIR IG fulfilling the MyHealth@EU Functional Requirements (see the [MyHealth@EU Requirements page](#))

- Scope
- MyHealth@EU
- Design choices
- Navigating the profiles
- Dependencies
- Cross Version Analysis
- Global Profiles
- IP statements

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Hospital Discharge Report

HL7 Europe Hospital Discharge Report 0.0.1-ci - ci-build 150

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Table of Contents Home

HL7 Europe Hospital Discharge Report - Local Development build (v0.0.1-ci) built by the FHIR (HL7® FHIR® Standard) Build Tools. See the Directory of published versions!

1 Home

Official URL: <http://hl7.eu/fhir/hdr/ImplementationGuide/hl7-fhir-eu.hdr> Version: 0.0.1-ci
Draft as of 2024-09-26 Computable Name: HL7euHospitalDischargeReportIG

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1.1 Scope

- Scope
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- Dependencies
- Cross Version Analysis

My health@EU and Data Service Infrastructure A service provided by the European Union

MyHealth@Eu Hospital Discharge Report 0.0.1 - qa-preview 150

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MyHealth@Eu Hospital Discharge Report - Local Development build (v0.0.1) built by the FHIR (HL7® FHIR® Standard) Build Tools. See the Directory of published versions!

1 Home

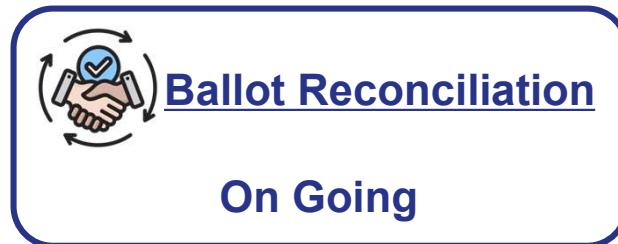
Official URL: <http://fhir.ehdsi.eu/hdr/ImplementationGuide/myhealth-eu.fhir.hdr> Version: 0.0.1
Draft as of 2024-10-14 Computable Name: myhealth@euhospitaldischargereportig

Note
Obligations have been added to this version of the guide only as **Informative** material to collect feedback about their usage.
For more details about obligations please refer to the Obligations page

1.1 Scope

Specify a set of rules to be applied to HL7 FHIR to define how to represent a Hospital Discharge Report for the European cross-borders exchange, coherently with the European eHealth -

- Scope
- MyHealth@EU
- Design choices
- Navigating the profiles
- Dependencies
- Cross Version Analysis
- Global Profiles
- IP statements



Ballot Reconciliation
On Going

<https://hl7.eu/fhir/hdr>



<https://fhir.ehdsi.eu/hdr/>
<https://build-fhir.ehdsi.eu/hdr/>

Hospital Discharge Report

Flexible Section Structure

- “**Flat structure**” as a reusable **section library**.
- Sections can be organized **flat or nested**, based on institutional requirements.
- **Key principles:**
 - A few **required sections**.
 - **Open slicing**: implementers can add more top-level sections.
 - **Sub-sections allowed**, with few exceptions.
-  This flexibility ensures:
 - Local adaptability
 - Standardized content model
 - Consistency across implementations

Hospital Discharge Report

Section Entry Optionality

- Supports varied document maturity levels:
 - Structured
 - Text-only
 - Unstructured
- ! Entries in sections *are not mandatory*, but strongly recommended to promote:
 - Structured data
 - Better interoperability
 - Higher data quality
- 📈 Obligations in the guide help implementers align with interoperability goals

Imaging Study Report



IHE International

Integrating the Healthcare Enterprise

Medical Imaging and reports

IHE International logo: A clipboard with a pencil and a medical chart.

HL7 FHIR R5 Implementation Guide: A screenshot of the HL7 FHIR R5 implementation guide for Imaging Diagnostic Reports (IDR). It shows the title "Imaging Diagnostic Report 0.0.1-current - r0-build 150", a note about being a work-in-progress, and a "Note to Reviewers" section.

aligned

HL7 Europe Imaging Study Report: A screenshot of the HL7 Europe Imaging Study Report, showing the "Manifest-based Access to DICOM Objects (MADO) Profile (FHIR-R5 elements)" page. It includes the HL7 FHIR logo and a handshake icon.



aligned

HL7 Europe Imaging Study Report: Another screenshot of the HL7 Europe Imaging Study Report, specifically the "Scope" section. It features the HL7 FHIR logo and a "WORK IN PROGRESS" badge.



Key Elements Table **Differential Table** **Snapshot Table** **Statistics/R**

Name	Flags	Card.	Type
EHDSImagingReport		0..*	Base
imagingReportHeader		1..1	EHDSImagingReportHeader
imagingReportStructuredBody		1..1	EHDSImagingReportBody
presentedForms		0..*	EHDSAttachment
imagingReportAttachment[]		0..*	EHDSSAttachment
ImagingReportAttachmentsEHDSAttachment			EHDSSMedia
ImagingReportAttachmentsEHDSMedia			EHDSSMedia
dicomStudyMetadata		0..*	EHDSImagingStudy
Documentation for this format			

Xt EHR @dataspace



Imaging Study Report



HL7 Europe Imaging Study Report 0.1.0-ballot - ci-build 150

Home Actors and Transactions XEHR model Imaging Manifest Imaging Report Artifacts Design Considerations

Table of Contents Home

This page is part of the HL7 Europe Imaging Study Report (v0.1.0-ballot; STU 1 Ballot 1) based on FHIR (HL7® FHIR® Standard) v5.0.0. This is the current published version. For a full list of available versions, see the [Directory of published versions](#).

1 Home

Official URL: <http://hl7.eu/fhir/imaging-r5/ImplementationGuide/hl7.fhir.eu.Imaging-r5> Version: 0.1.0-ballot

Draft as of 2025-05-14 Computeable Name: HL7euImagingStudyReport

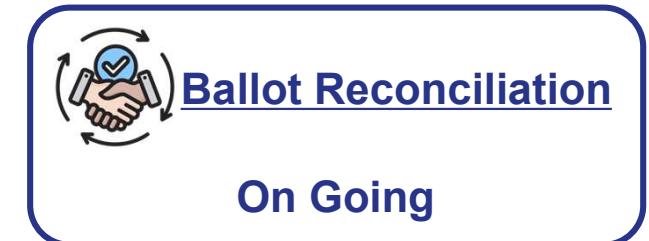
Copyright/Legal: Used by permission of HL7 Europe, all rights reserved Creative Commons License

STU Note
This is the 0.1.0-ballot version of the specification.
The source of this IG is stored on github (<https://github.com/hl7-eu/imaging-r5>).
The content of this implementation guide is discussed HL7 EU calls (HL7-eu Imaging on Confluence).

This version is based on FHIR R5. A FHIR R4 version will be derived from this ballot version and is expected to be published in the near future.

1.1 Scope

• Scope
• Purpose
• References
• Dependencies
• Cross Version Analysis
• Global Profiles
• IP Statements
• Authors and Contributors



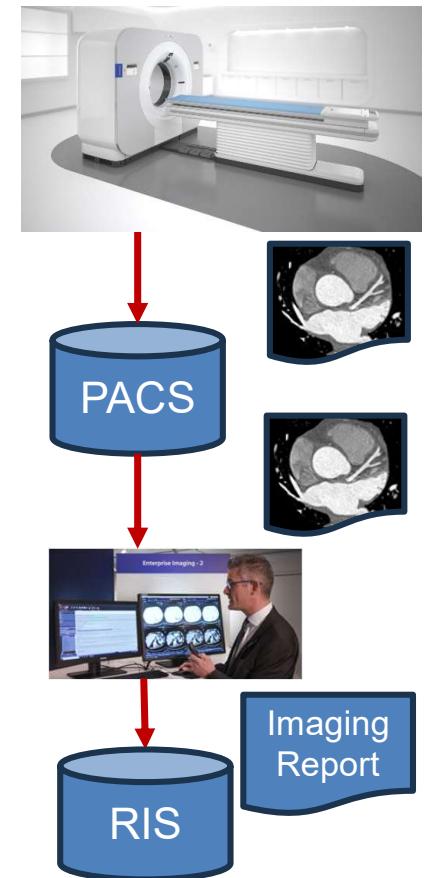
- [\(ballot\)](https://hl7.eu/fhir/imaging-r5)
- [\(post-ballot snapshot\)](https://hl7.eu/fhir/imaging-r5/0.1.0-snapshot1)



Medical Imaging
and reports

Imaging workflow

- Imaging is generated by imaging modalities
- The result is a DICOM **Imaging Study**
- The Imaging Study is stored in a PACS
- The Radiologist reads the Imaging Study from the PACS and writes an **Imaging Report**.
- This is typically stored in the RIS/EHR.

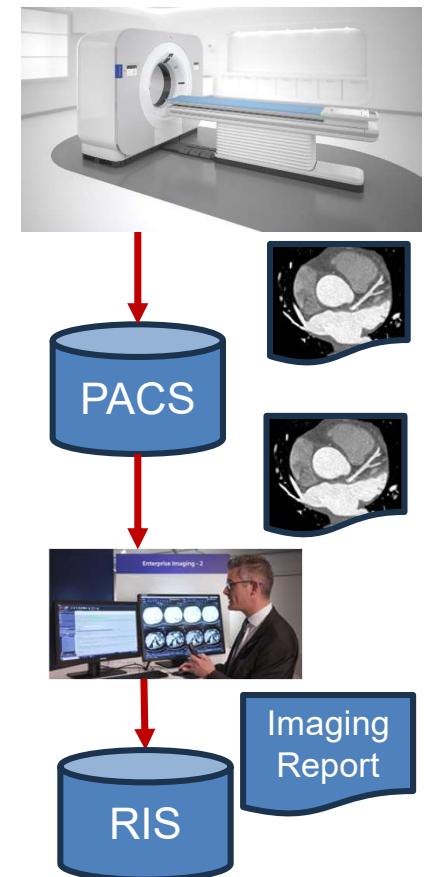


Courtesy of Bas van den Heuvel

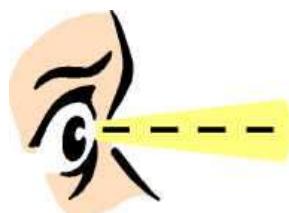
EHDS and Imaging Documents

- **HL7 FHIR Imaging Manifest** that holds the information required to access the imaging data (data from the PACS).
→ Moved to the new on-develop IHE MADO profile
- **HL7 FHIR Imaging Report** that holds the Imaging Report (data from RIS).

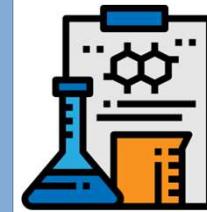
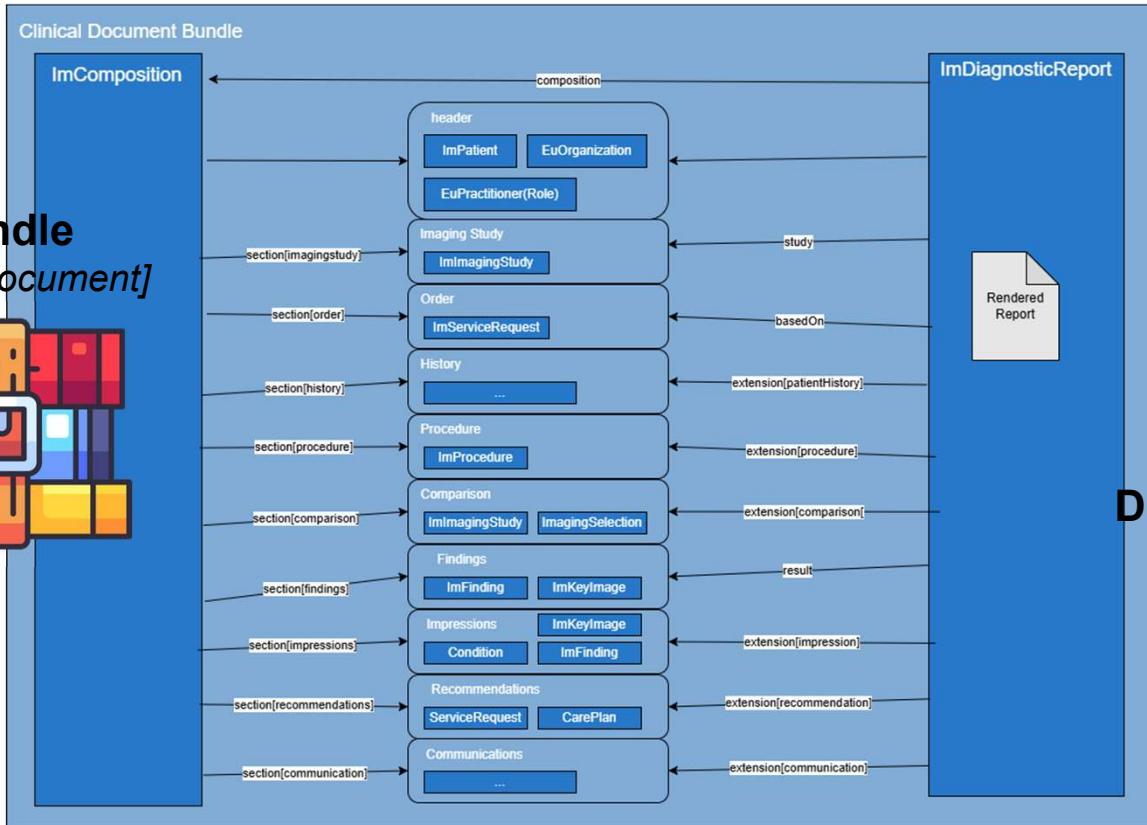
The screenshot shows the HL7 Europe Imaging Study Report website. The header includes the HL7 Europe logo, the title "HL7 Europe Imaging Study Report 0.1.0-ballot - ci-build 150", and a search bar with the "HL7 FHIR" logo. The navigation menu includes Home, Actors and Transactions, XfEHR model, Imaging Manifest, Imaging Report, Artifacts, and Design Considerations. Below the menu, a breadcrumb trail shows Table of Contents > Deployment profiles > Imaging Manifest. A yellow note at the bottom states: "HL7 Europe Imaging Study Report, published by HL7 Europe. This guide is not an authorized publication; it is the continuous build for version 0.1.0-ballot built by the FHIR (HL7® FHIR® Standard) CI Build. This version is based on the current content of <https://github.com/hl7-eu/imaging> and changes regularly. See the Directory of published versions."



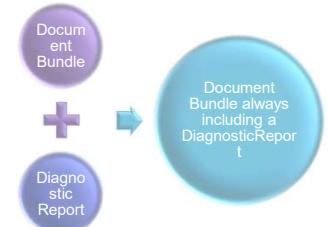
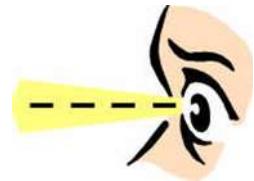
Imaging Report



Bundle
[type = document]

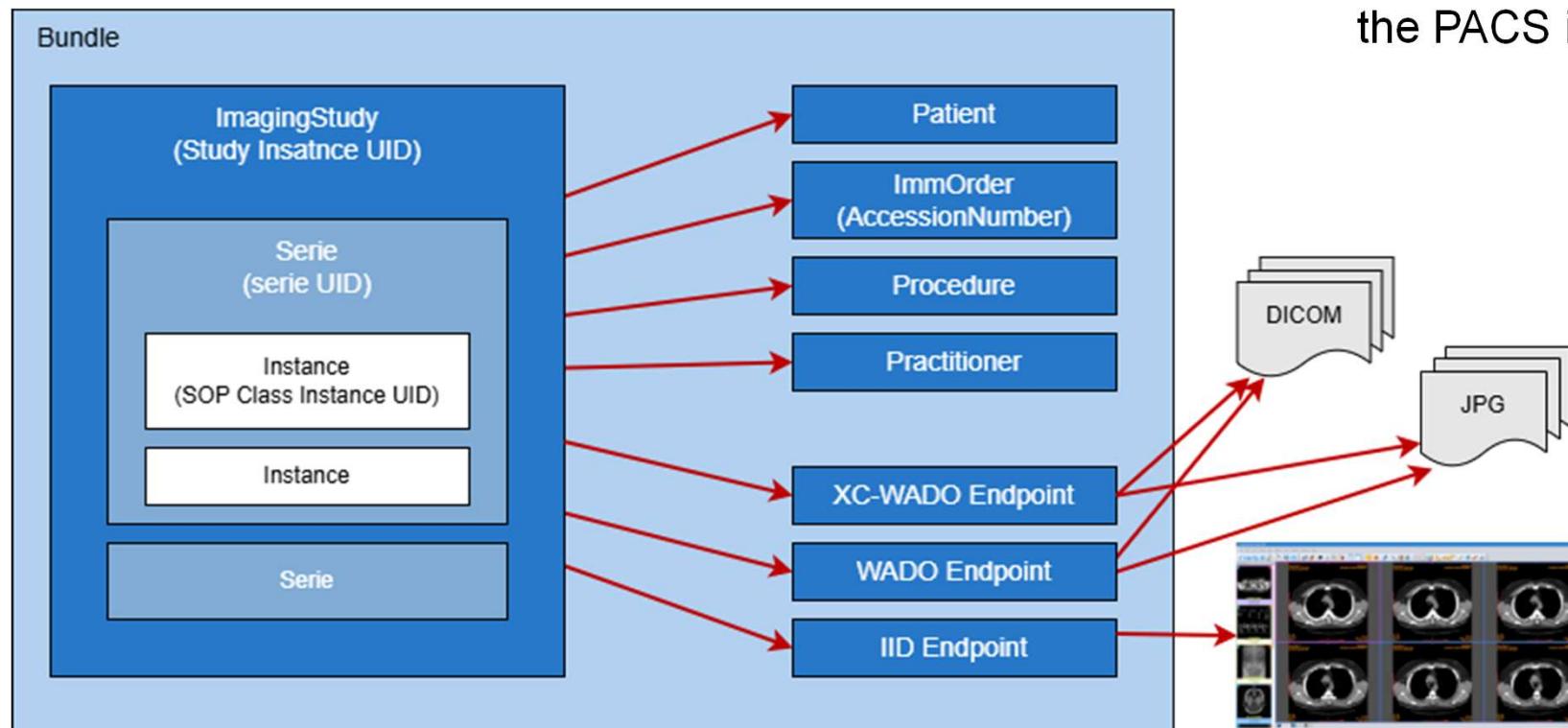


DiagnosticReport



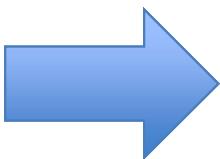
Imaging Manifest

Manifest holds data as stored in the PACS including endpoints.



Imaging Manifest

1
2
3
4
Integrating the Healthcare Enterprise
IHE
5
6
7
IHE Radiology
8
Technical Framework Supplement
9
10
11
Manifest-based Access to DICOM Objects
12
(MADO)
13
For review and comment only.
14
DO NOT implement this public comment version.
15
16
HL7® FHIR® R5 (R4 to be added later)
Using Resources at FMM Level 2-N
17
18
19
Revision 0.6 – Draft in Preparation for Public
Comment
20
21
22
23 Date: September 23, 2025
24 Author: IHE-HL7 Europe Sub-team on imaging manifest
25 Email:
26
27



1 Home
Official URL: <http://hl7.eu/fhir/imaging-manifest-r5/ImplementationGuide/hl7.fhir.eu.Imaging-manifest-r5> Version: 0.2.0-snapshot1
Draft as of 2025-09-23 Computable Name: HL7euImagingManifestR5
Copyright/Legal: Copyright HL7 Europe. Licensed under Creative Commons public domain (CC0 1.0).
• Scope
• Purpose
• Structure
• FHIR specific Dependencies
• Cross Version Analysis
• Global Profiles
• IP statements
• Authors and Contributors

<https://hl7.eu/fhir/imaging-manifest-r5>

<https://euridice.org/index.php/mado/>

Euridice = HL7 Europe + IHE Europe

- *EURIDICE stands for European Interoperability Specifications for Digital Solutions in Healthcare.*
- EURIDICE is a **joint HL7 Europe and IHE-Europe initiative**, focused on creating well-architected and implementable specifications for EHDS.



Patient Summary



HL7® FHIR® R4

HL7®
Europe



eHealth Network

Guideline on

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

Patient Summary

Release 3.3, June 2023
The eHealth Network is a voluntary network of European health systems. It provides a platform of Member States' competent authorities dealing with cross-border issues.

HL7 International
International Patient Summary Implementation Guide
1.1.0 - CI Build

Home Table of Contents General Principles and Design The "IPS" FHIR Artifacts Downloads Copyrights Change Log

Table of Contents International Patient Summary Implementation Guide

International Patient Summary Implementation Guide, published by HL7 International / Patient Care. This guide is not an authorized publication; it is the continuous build for version 1.1.0 built by the FHIR (HL7® FHIR® Standard) CI Build. This version is based on the current content of <https://github.com/HL7/fhir-ipsg/ci> and changes regularly. See the Directory of published versions.
1 International Patient Summary Implementation Guide

Official URL: https://hl7.org/fhir/uv/ips/ImplementationGuide/hl7_fhir-uv_1ps Version: 1.1.0
IG Standards status: Trial-use Maturity Level: 2 Computable Name: InternationalPatientSummaryIG
Page standards status: Informative

An International Patient Summary (IPS) document is an electronic health record extract containing essential healthcare information about a subject of care. As specified in EN 17269 and ISO 27309, it is designed for supporting the use case scenario for unplanned, cross border care, but it is not limited to it. It is intended to be international, i.e., to provide generic solutions for global application beyond a particular region or country.
The IPS dataset is minimal and non-exhaustive; specialty-agnostic and condition-independent; but still clinically relevant.

Purpose
Project Background
Project Scope
Relationships with Other Projects and Guidelines
Ballot Status

HL7 Europe
0.0.1-ci - ci-build 150

Home Table of Contents Functional Specifications Artifacts About

Table of Contents Home

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1 Home

Official URL: https://hl7.eu/fhir/eps/ImplementationGuide/hl7_fhir-eu_1ps Version: 0.0.1-ci
Draft as of 2024-09-16 Computable Name: HL7ePatientSummaryIG
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STU Note
Obligations have been added to this version of the guide only as Informative material to collect.

Scope Purpose

WORK IN PROGRESS



Patient Summary



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Europe

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Patient Summary



HL7 FHIR International Patient Summary Implementation Guide 1.1.0 - CI Build 290

Home Table of Contents General Principles and Design The "IPS" FHIR Artifacts Downloads Copyright Change Log

Table of Contents International Patient Summary Implementation Guide

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International Patient Summary Implementation Guide

Official URL: <http://hl7.org/fhir/uv/ips/ImplementationGuide/HL7-FHIR-ips> Version: 1.1.0

IS Standard Status: Trial-use Maturity Level: 2 Compatiblity Name: Internet (final/first/summary)

Page standards status: Informative

An International Patient Summary (IPS) document is an electronic health record report containing essential healthcare information about a patient's care. As specified in the ISO 27001 and ISO 27005, it is designed for exchange across the public domain, for "unprimed, cross border care", but it is not limited to it. It is intended to be international, i.e., to provide generic medical grade applications beyond a particular region or country.

The IPS dataset is minimal and non-exhaustive; specialty agnostic and condition-independent; but still clinically relevant.

HL7 FHIR Europe Patient Summary 0.0.1-0 - CI Build 290

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Table of Contents HL7 Europe Patient Summary

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1 Home Official URL: <http://hl7.eu/fhir/eps/ImplementationGuide/hl7-phir-eu-eps> Version: 0.0.1-01

Draft as of 2024-09-16 Compatiblity Name: HL7PatientSummary/ig

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STU4: Obligations have been added to this version of the guide only as **Informative** material to collect Scope Purpose WORK IN PROGRESS

<https://hl7.org/fhir/uv/ips/>
<https://build.fhir.org/ig/HL7/fhir-ips>

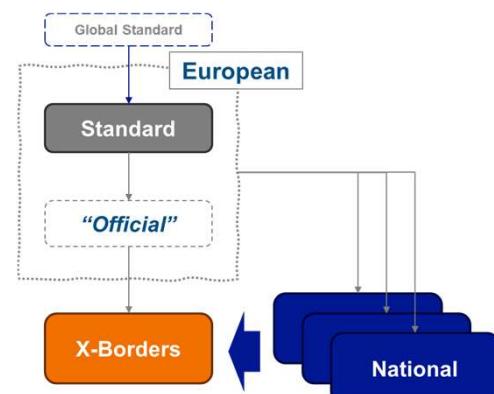


Patient Summary

<https://build.fhir.org/ig/hl7-eu/eps>



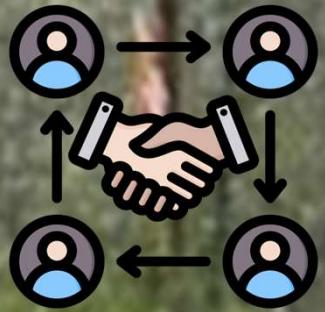
HL7 FHIR IGs overview



	Patient Summary	Laboratory Results	Hospital Discharge Report	ePrescription eDispensation	Medical Imaging and reports	BASE
Global Standard	✓	↻	🕒 ➡	↻	↻	HL7®
European Standard	🟡 WORK IN PROGRESS	✓	↻	↻	↻	⌚
European "Official"	🟡 IF...	🟡 IF...	🟡 IF...	🟡 IF...	🟡 IF...	🟡 IF...
European X-border	🔴 X-Border	✓	🔴 ✅	🟡 WORK IN PROGRESS	🔴 ✅	🔴 X-Border

Legenda - HL7 FHIR IGs overview

	For future consideration		Ballot
	Starting		Ballot Reconciliation
	Work In Progress		Publication Pending
	QA Preview		Published
			 If needed..

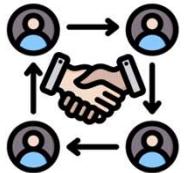


It's never too late to join!

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Join us



- Periodic Virtual Meetings
- F2F meeting @ HL7 Europe WGM
 - 1-5 December 2025. Cologne

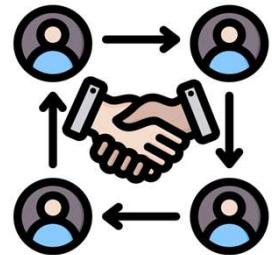


Join us: virtual meetings



Base and Core		
EPS	Friday 10-11 CE(S)T - Weekly	
HDR		
Laboratory	Monday 18-19 CE(S)T - Weekly (FHIR)	Friday 13-14.30 CE(S)T – Bi-Weekly (Semantic)
MPD	Thursday 16-17 CE(S)T – Bi-Weekly	
Imaging	Tuesday 11-12 CE(S)T – Weekly (Main)	Thursday 13-15 CE(S)T Weekly (Manifest subgroup)

Join us



- **Periodic Virtual Meetings**

- Send an email to info@hl7europe.org
- **europe** channel chat.fhir.org
- HL7 Calendar (<https://www.hl7.org/concalls/>)

Shaping the Future of FHIR in Europe

HL7 Europe Working Group Meeting

Cologne, Germany

1-5 December 2025



hl7europe.org
for more information



Highlights



**HL7® FHIR® Specifications
for the EHDS**

Hands-on and Tutorials

Testing and Refinement

Networking with Experts

**HL7 Europe Initiatives and
Projects**



 Europe

Thank you !



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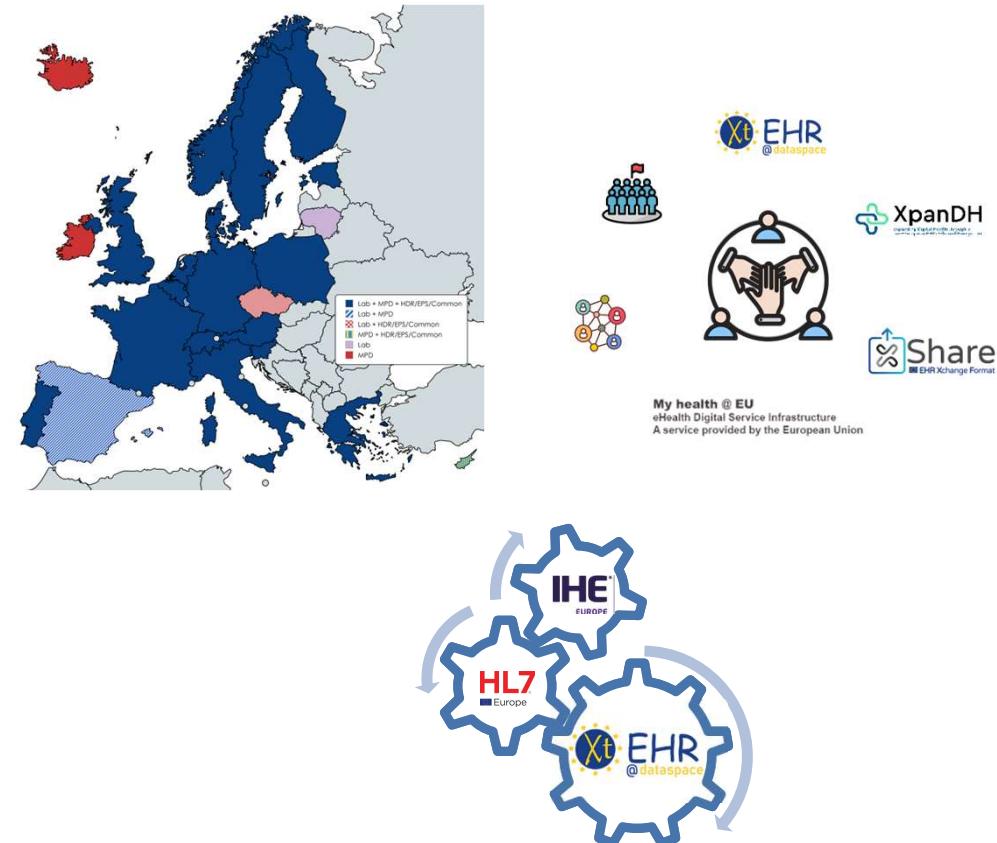
Agenda



Collaborative Development in Motion



- The result of a highly **participatory, multi-stakeholder process spanning the European health ecosystem.**
- **Laboratory Report:** **113 distinct participants** from 22 countries (including USA) and EC Solution Providers [average ~30 attendees]
- **MPD:** **114 distinct participants** from 26 countries (including USA) and EC Solution Providers [average ~30 attendees]
- **HDR/EPS/Core:** **180 distinct participants** from 24 countries (including Sri Lanka, United Arab Emirates, Saudi Arabia and USA) and EC Solution Providers [average ~35 attendees]



HOW TO SUPPORT THE “FORMAT”



Timeline

**HL7 EU
WGM**

