

IHE[®] | EXPERIENCE EUROPE | DAY | 13 SEPTEMBER 2022

IHE Profile development within ITI Committee

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2015 - founder ahdis

2003 - 2014 visionary AG, docbox

2002 - 2003 Ecofin Research & Consulting AG

1994 - 2001 SPEAG

2016 - Dozent BFH Bern, ZHAW Winterthur

Medizininformatik, Interoperabilität

HL7.ch

Technical Manager, Member hl7 since 2009

IHE Suisse Member since 2015

IHE International ITI Technical Committee Co-Chair

Dipl. Inf. ETH, ETH Zürich, 1996

IHE XDS Advanced Training, 2015

Certified HL7 CDA Specialist, 2015

Certified Scrum Master, 2014

NDK eHealthcare, Nottwil, 2009

HL7 FHIR[®] Release 4B

Home Getting Started Documentation Resource Types Profiles Extensions Operations Terminologies

Table of Contents > Profiles

This page is part of the FHIR Specification (v4.3.0: R4B - STU). This is the current published version. For a full list

1.3 Profiles defined as part of FHIR

FHIR Infrastructure Work Group	Maturity Level: N/A
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This specification is a common platform standard that must be adapted to particular use cases. Some particular use part of the specification itself. These are published as groups of Structure Definitions (profiles or extensions), which newly defined search parameters and examples that are all defined with a common purpose. Additional profiles and <http://registry.fhir.org>

<https://www.hl7.org/fhir/profilelist.html>

IHE[®] | Integrating the Healthcare Enterprise

INTERNATIONAL

HOME / ITI / IT INFRASTRUCTURE (ITI) DOMAIN

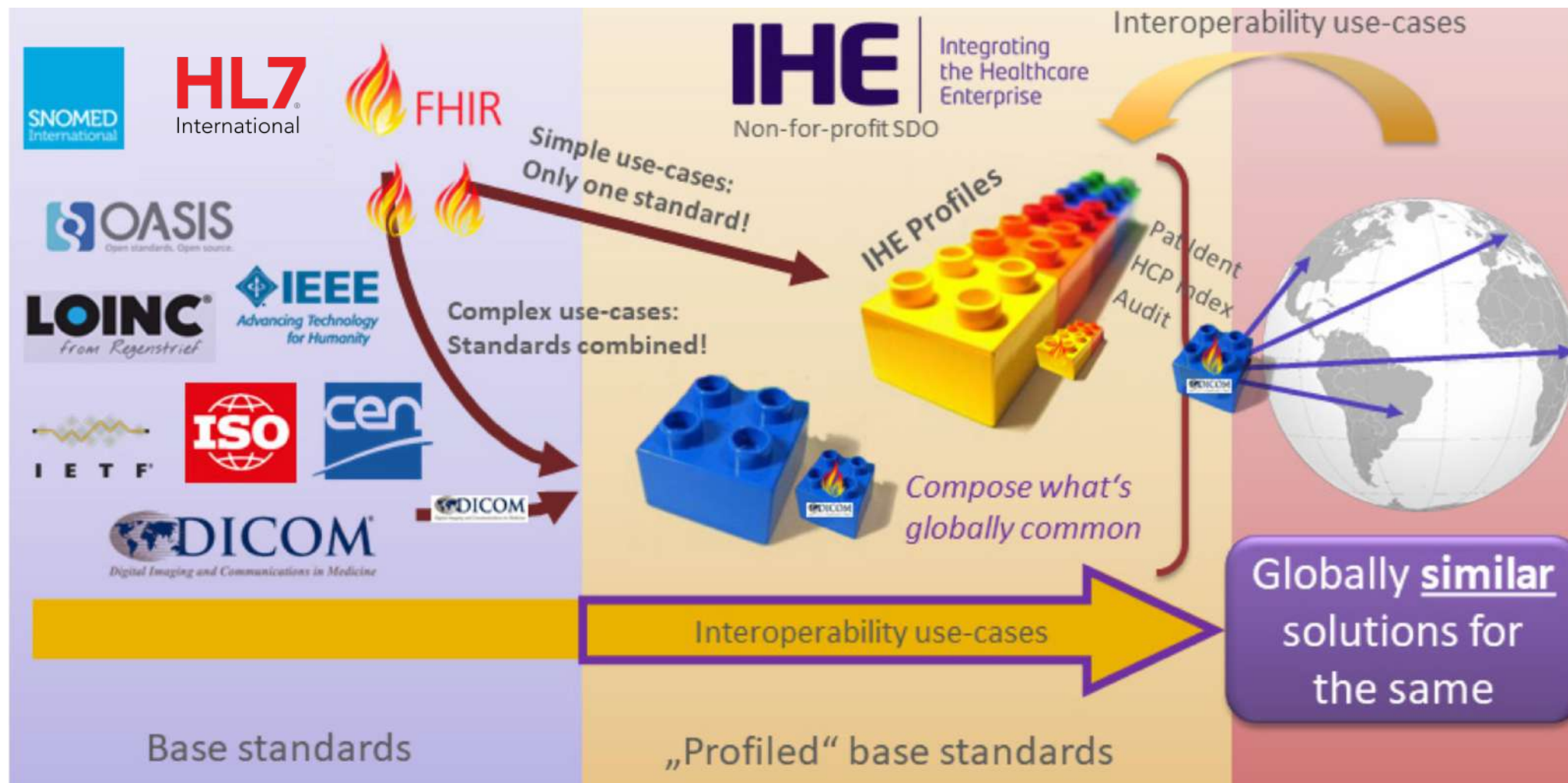
IT Infrastructure (ITI) Domain

Technical Framework

All Normative Final Text Profiles:

- Volume 1: Profile definition, use-case analysis, actor definition, and use of transactions and content
- Volume 2: Transaction definitions and constraints
- Volume 3: Document Sharing Metadata, and Content Profiles
- Volume 4: National Extensions

<https://profiles.ihe.net/ITI/>

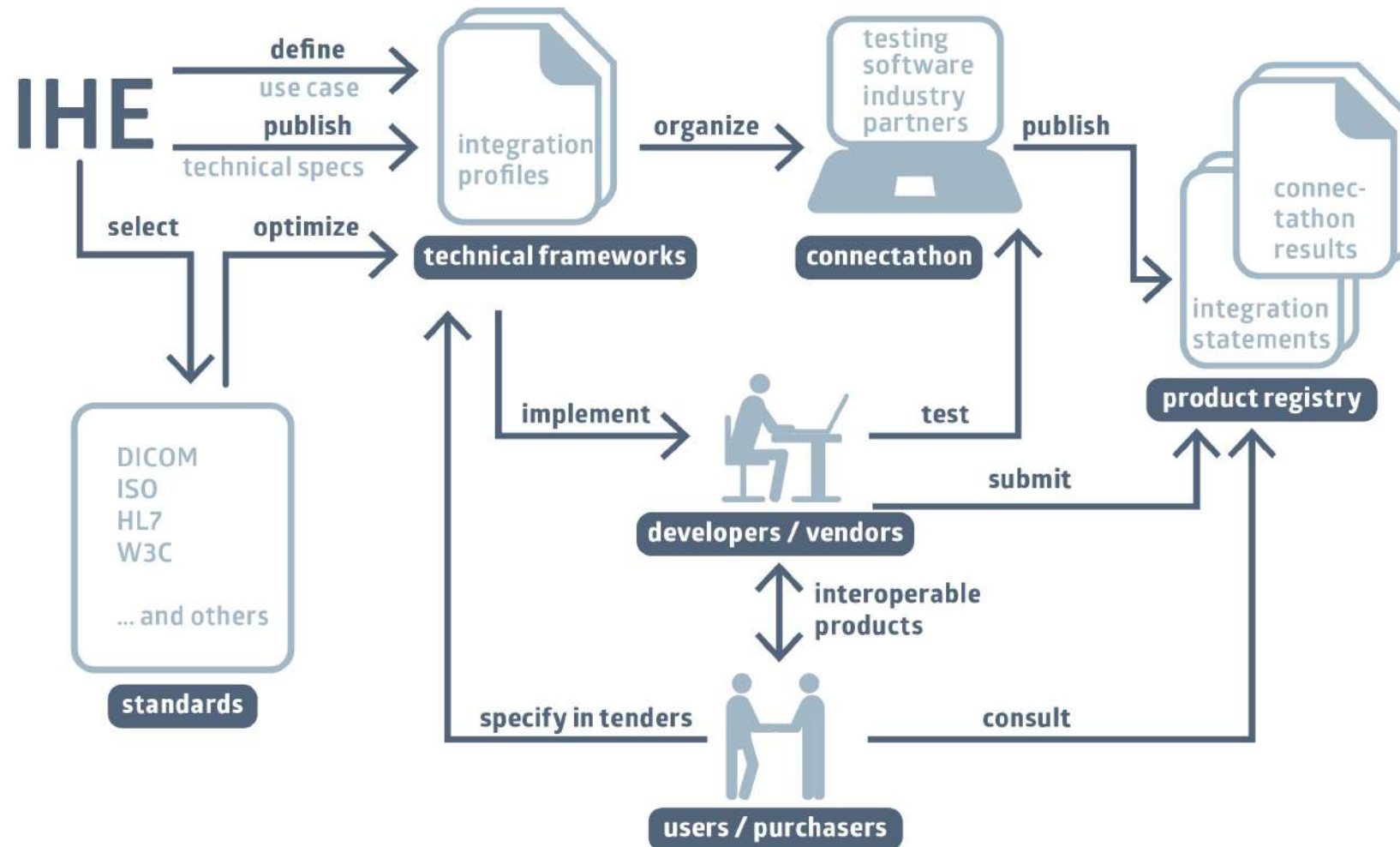


Jürgen Brandstätter, IHE / HL7 / FHIR Auslegeordnung für eHealth Suisse

https://www.e-health-suisse.ch/fileadmin/user_upload/Dokumente/D/auslegeordnung-ihe-hl7-fhir.pdf



From standards to a solution



- Cardiology
- Dental
- Devices
- Endoscopy
- Eye Care
- **IT Infrastructure (ITI)**
- Pathology and Laboratory Medicine
- Patient Care Coordination
- Pharmacy
- Quality, Research and Public Health
- Radiation Oncology
- Radiology



IT Infrastructure (ITI) Domain

Topics

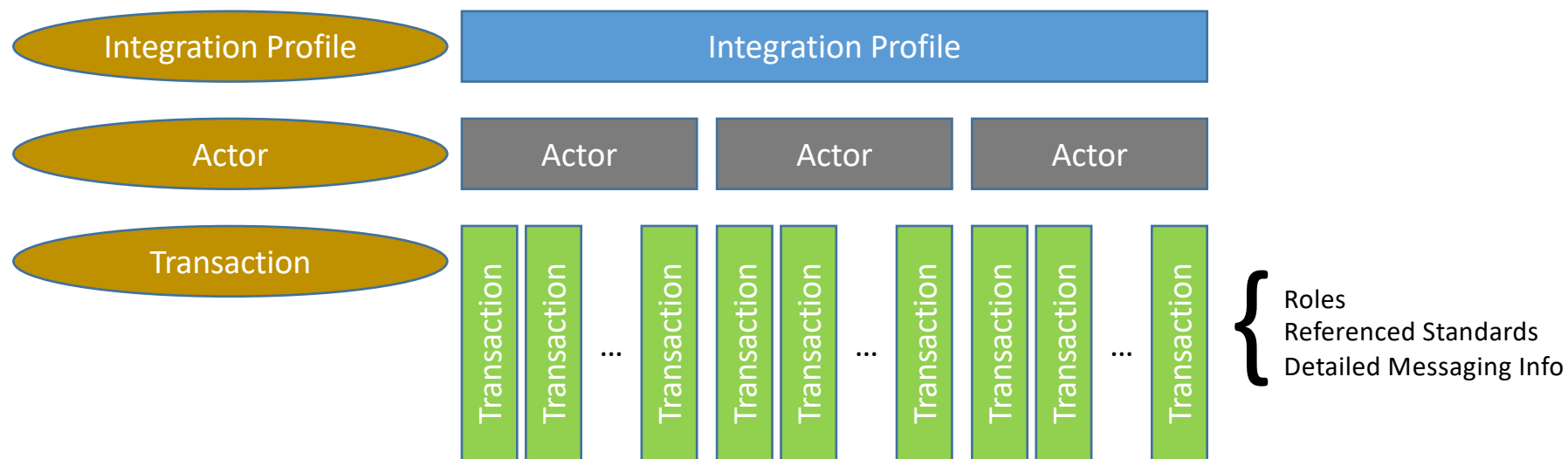
This section contains guidance on IHE offerings given a knowledge domain:

- [Document Sharing Health Information Exchange](#) Whitepaper
- [Document Sharing](#): Profiles
- [Consuming data as FHIR Resources](#): Profiles, and Content
- [Patient identity Management](#): Whitepaper, and Profiles
- [Provider Directory Solutions](#): Profiles, and Content
- [Security and Privacy Solutions](#): Handbooks, Profiles, and Content

Technical Framework

All Normative Final Text Profiles:

- [Volume 1](#): Profile definition, use-case analysis, actor definition, and use of transactions and content 🌐
- [Volume 2](#): Transaction definitions and constraints 🌐
- [Volume 3](#): Document Sharing Metadata, and Content Profiles 🌐



Source: https://www.ihe.net/FAQ/#What_is_the_IHE_Technical_Framework?



Integrating
the Healthcare
Enterprise

IHE HIE Whitepaper

Search

Sections

Integrating the Healthcare Enterprise

Introduction to
This Supplement

Open Issues and
Questions

Closed Issues

IHE Technical
Frameworks
General
Introduction

IHE Technical
Frameworks



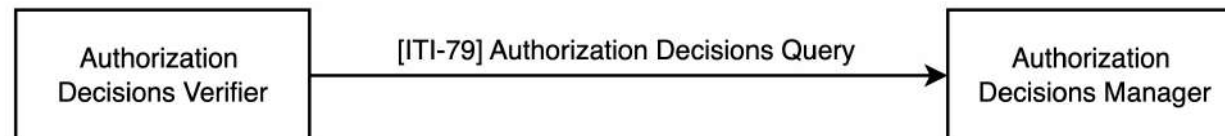
IHE ITI




Technical Framework Supplement


Secure Retrieve (SeR)

Revision 2.0 - Public Comment

<https://profiles.ihe.net/ITI/SeR/index.html>





Mobile access to Health Documents (MHD)
4.1.0 - Trial-Implementation 

MHD Home Volume 1 Volume 2 Volume 3 Test Plan Artifact Index

Table of Contents > MHD Home <prev | bottom | next>

This page is part of the IHE Mobile Access to Health Documents (v4.1.0: Trial Implementation) based on [FHIR R4](#). This is the current published version. For a full list of available versions, see the [Directory of published versions](#).

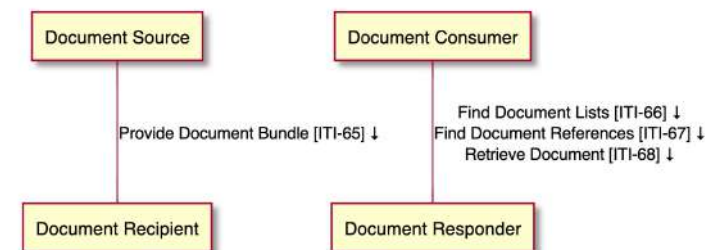
MHD Home

Official URL: https://profiles.ihe.net/ITI/MHD/ImplementationGuide/ihe.iti.mhd	Version: 4.1.0
Active as of 2022-03-01	Computable Name: IHE_ITI_MHD
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Applications specific to resource-constrained and mobile devices are an emerging platform for healthcare-enhancing software. The MHD Profile is not limited to mobile devices, using the term "mobile" only as a grouping for mobile applications, mobile devices or any other systems that are resource and platform-constrained. These constraints may drive the implementer to use simpler network interface technology. There are numerous deployed implementations of [Document Sharing Health Information Exchange](#) that need a simpler network interface technology, for example those hosted by a Health Information Exchange (HIE), large health provider electronic health record (EHR), or personal health record (PHR).

The Mobile access to Health Documents (MHD) Profile defines one standardized interface to [health document sharing](#) (a.k.a. an Application Programming Interface (API)) for use by mobile devices so that deployment of mobile applications is more consistent and reusable. In this context, mobile devices include tablets, smart-phones, and embedded devices including home-health devices. This profile is also applicable to more capable systems where needs are simple, such as pulling the latest summary for display. The critical aspects of the "mobile device" are that it is resource-constrained, has a simple programming environment (e.g., JSON, JavaScript), simple protocol stack (e.g., HTTP), and simple display functionality (e.g., HTML browser). The goal is, in part, to avoid burdening the client with additional libraries such as those that are necessary to process SOAP, WSSE, MIME-Multipart, MTOM/XOP, eBRIM, and multi-depth XML.

The Mobile access to Health Documents (MHD) Profile defines one pair of actors and a transaction to submit or push new "document entries" from the mobile device to a receiving system. Another set of actors and transactions is used to query a list of "document entries" having specific metadata, and to retrieve a document.



<https://profiles.ihe.net/ITI/MHD/index.html>



- Almost all IHE «mobile» Profiles are now published as FHIR Implementation Guides with
 - Actors, Transactions defined
 - Conformance Resources (StructureDefinitions, ValueSets, CodeSystems, ConceptMaps, Extensions etc)
 - and with **examples!**
- Facilitates also testing because Implementation Guides can be used for validation during development.



- IHE ITI Planning Committee and Technical Committee
- Work Item Proposal
- Monthly Planning Meeting
- Bi-weekly Telcos for Work Items
- 3 yearly F2F or virtual weekly meeting for work item development
- Public Comment Phase
- Trial Implementation



5 Under assessment by planning + ...

- ITI sex and gender profiling ...
#187 opened by snichols001
- mCSD Profile Directory alignment with Argonaut, Sequoia, and DirectTrust ...
#127 opened by JohnMoehrke
- Convert NPFS to an IG published ...
#154 opened by JohnMoehrke
- Convert mACM to an IG published ...
#155 opened by JohnMoehrke
- Re-Document XDS Metadata Update ...
#124 opened by JohnMoehrke

9 Planning Assessed Work Items + ...

- Use \$match in PDQm ...
#163 opened by JohnMoehrke
Dev-M Review-M Testing-M
- Whitepaper: multiple choices of Patient id/identifier to use with server queries ...
#168 opened by JohnMoehrke
Dev-M Review-M Testing-S
- Convert mXDE to html or IG ...
#173 opened by JohnMoehrke
Dev-S Review-S Testing-S
- Federate MHDS using FHIR including Patient and User federation ...
#126 opened by JohnMoehrke
Dev-L Review-L

- XCA federation of MHDS community ...
#156 opened by JohnMoehrke
Dev-M Review-M Testing-L
- Basic Patient Privacy Consent for Mobile ...
#183 opened by JohnMoehrke
Dev-L Review-M Testing-M
- RESTful document subscription (DSUBm) ...
#123 opened by JohnMoehrke
Dev-L Review-L Testing-L
- Convert RESTful ATNA supplement to an IG published ...
#145 opened by JohnMoehrke
Dev-L Review-L Testing-M



5 In development by Tech + ...

approved CPs integration ...
Added by JohnMoehrke

CP-Maintenance ...
#171 opened by JohnMoehrke
Dev-S Review-S

MHD to a Federation ...
#142 opened by JohnMoehrke
Dev-M Review-M

MHD Improvements ...
#175 opened by JohnMoehrke
Dev-M Review-M Testing-M

Scheduling for Mobile ...
#139 opened by JohnMoehrke
Dev-M Review-L Testing-L

2 Public Comment + ...

Extension of the Profile "Security Retrieve" ...
#177 opened by JohnMoehrke
Dev-M Review-M Testing-M

Convert SVCM to an IG published ...
#150 opened by JohnMoehrke
Dev-M Review-M Testing-M

20 In Trial Implementation + ...

mCSD public-comment with Endpoint/OrgAff ...
#178 opened by JohnMoehrke
Dev-S Review-M

Convert PMIR to an IG published ...
#153 opened by JohnMoehrke
Dev-M Review-M Testing-M

BasicAudit IG ...
#144 opened by JohnMoehrke
Dev-M Review-L Testing-M

Publish MHDS in IG publisher ...
#166 opened by JohnMoehrke
Review-S Testing-S



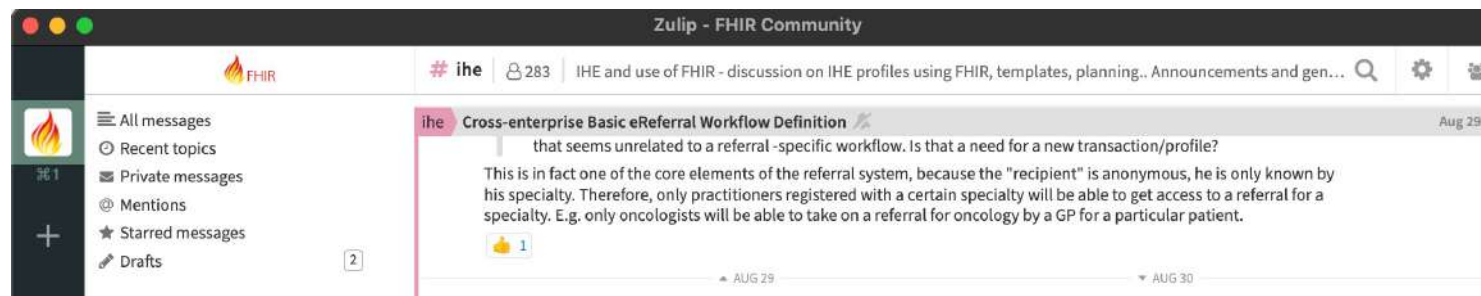
- participate in IHE (ITI) committees!
- test at IHE Connectathon

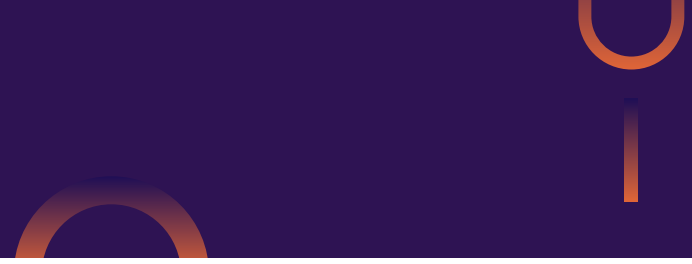


EPR
PROJECTATHON

MONTREUX 
SEPTEMBER 12/16
2022

- ... or provide feedback on [chat.fhir.org](https://chat.fhir.org/#ihe) in #ihe stream





more on

FHIR Based IHE Profiles

with José Costa Teixeira

IHE Pharmacy Vendor Co-Chair

HL7 Belgium Chair

