VIENNA 2025 JUNE 23/27

IHE EUROPE CONNECTATHON®

2025 IHE-Europe Connectathon
~ What's new in IHE IT-Infrastructure ~

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Agenda

- Vienna Connectathon - What's happening? How can I join?
- Introduction of the IT-Infrastructure domain: what does it cover in terms of business cases
- What is new since the last Connectathon?
- Focus on hot profiles
- Resources
- Contact us
- Q&A session

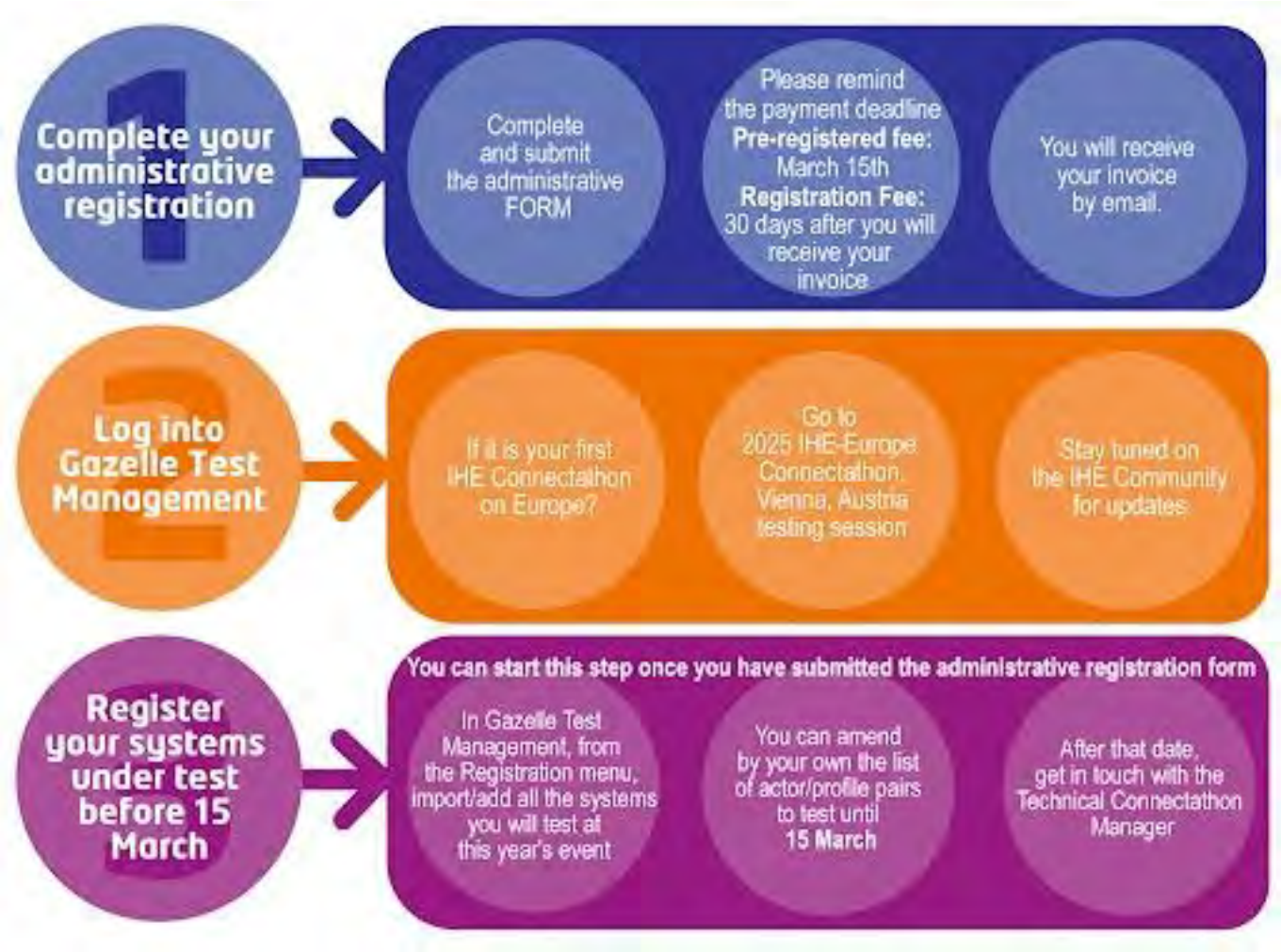
Join us at Vienna Allianz Stadion, June 23-27, to test your product nearly on the field

IHE Connectathon is a formal interoperability testing event.

It is the best place to

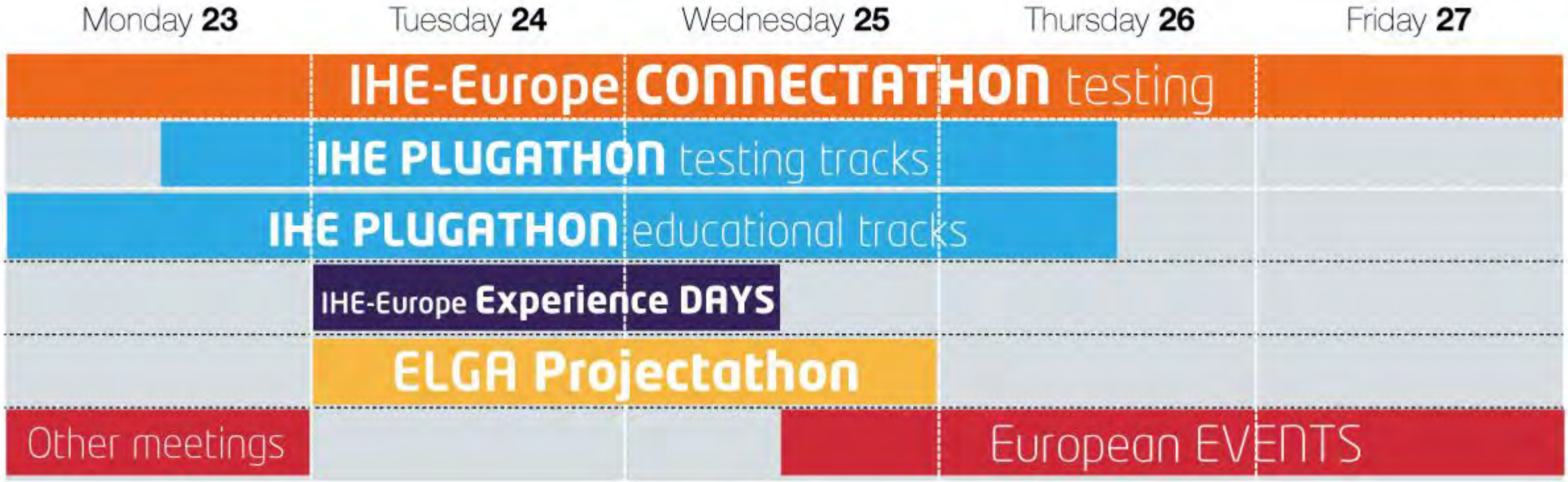
- **Test** the IHE implementation of your product
- **Find and fix** bugs in your product
- **Complete** the last mile of your software development
- **Share** with experts, including the authors of the IHE Profiles
- **Meet** other professionals who face the same challenges as you do
- **Learn** from the community

How to register for the event?



https://connectathon.ihe-europe.net/connectathon-week-2025

Other interoperability events happening in Vienna



[Link to IHE-Europe Experience days webpage]

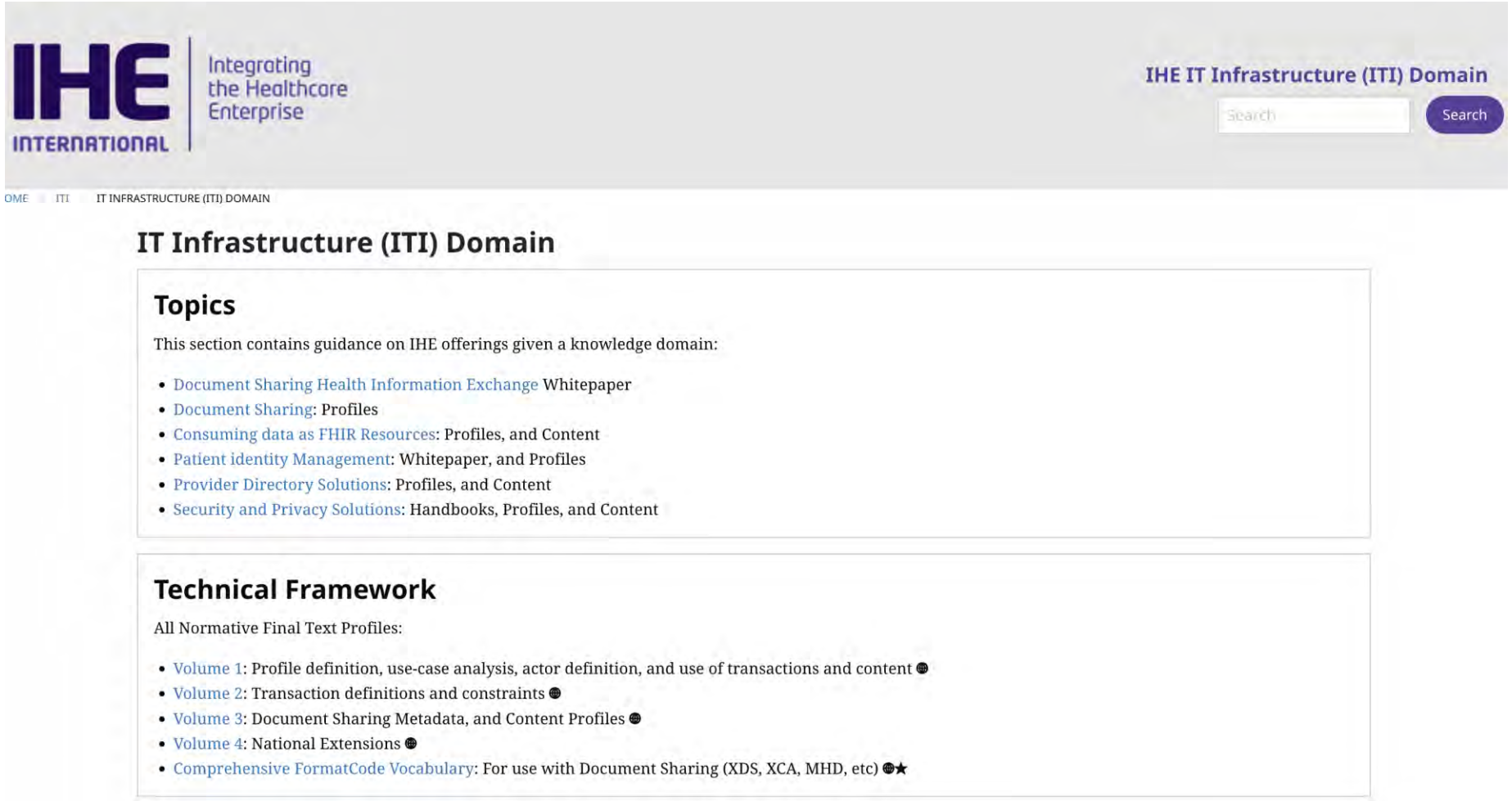
IT-Infrastructure

- The IT Infrastructure Domain defines interoperable infrastructure for the secure sharing of healthcare information independent of clinical domain. Interoperable infrastructure is necessary to support common IT functions for a variety of use cases but is rarely visible to the end user.

- Components supporting interoperable infrastructure may be embedded in applications but are often deployed as a shared resource within an organization or a regional or national health information exchange.

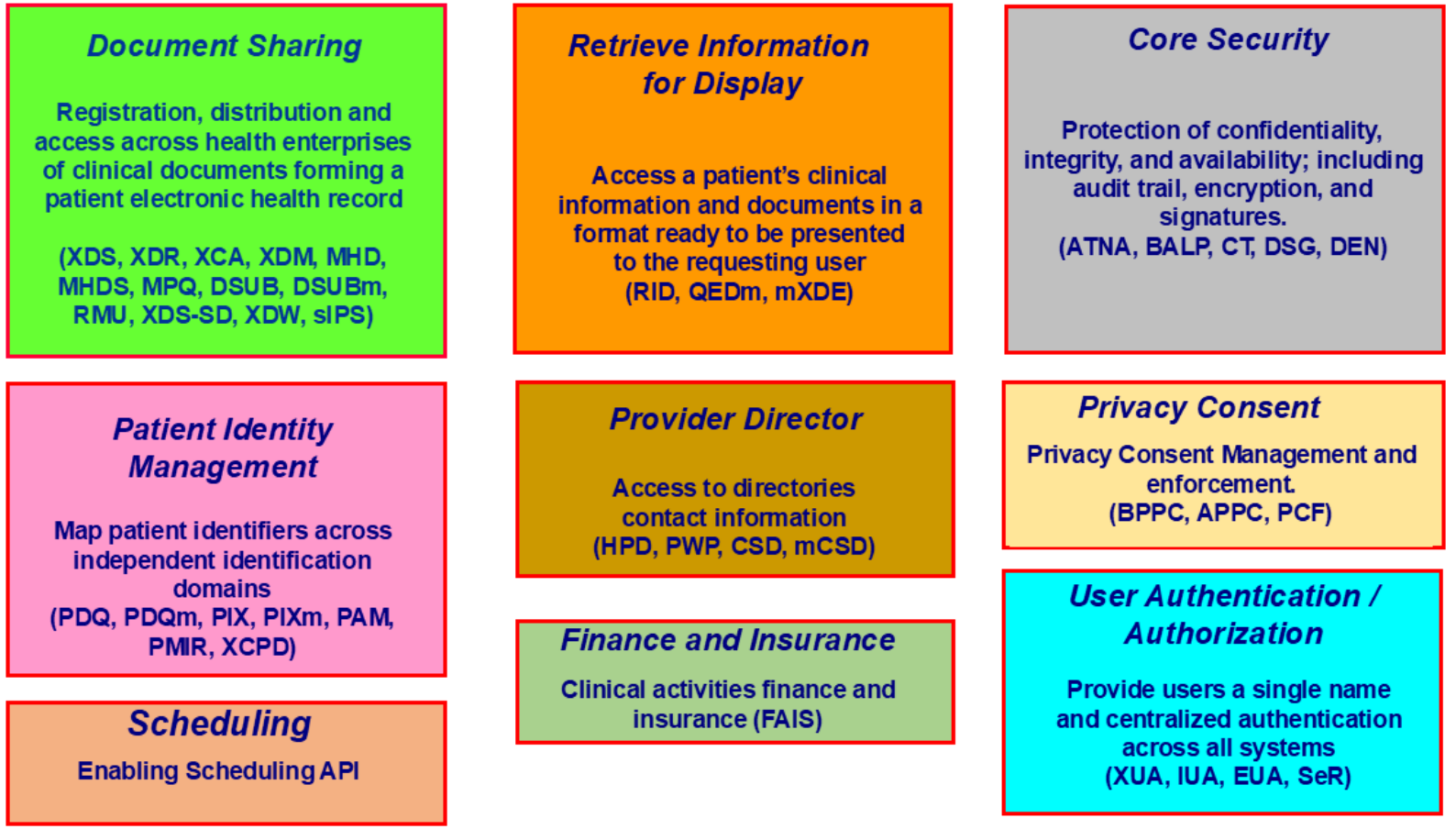
- IHE ITI was established by HIMSS & RSNA in 2002 in order to address use cases that cross multiple clinical domains and rely on a common IT Infrastructure.

IT-Infrastructure



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

IT-Infrastructure

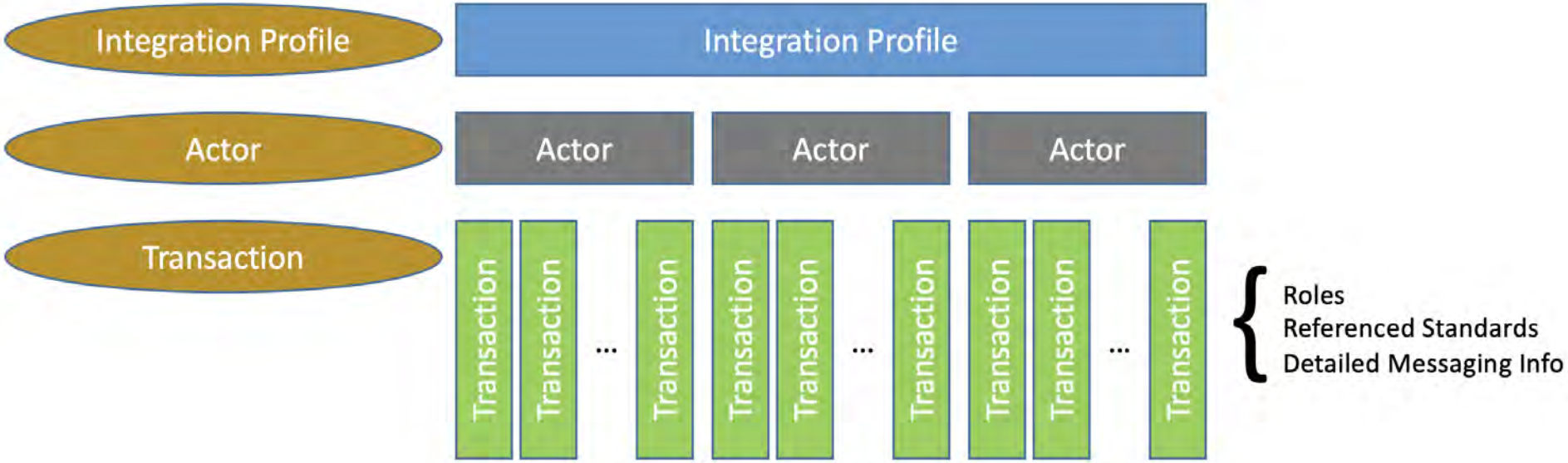


https://profiles.ihe.net/ITI/TF/Volume1/ch-2.html

ITI – Profiles most tested at CAT

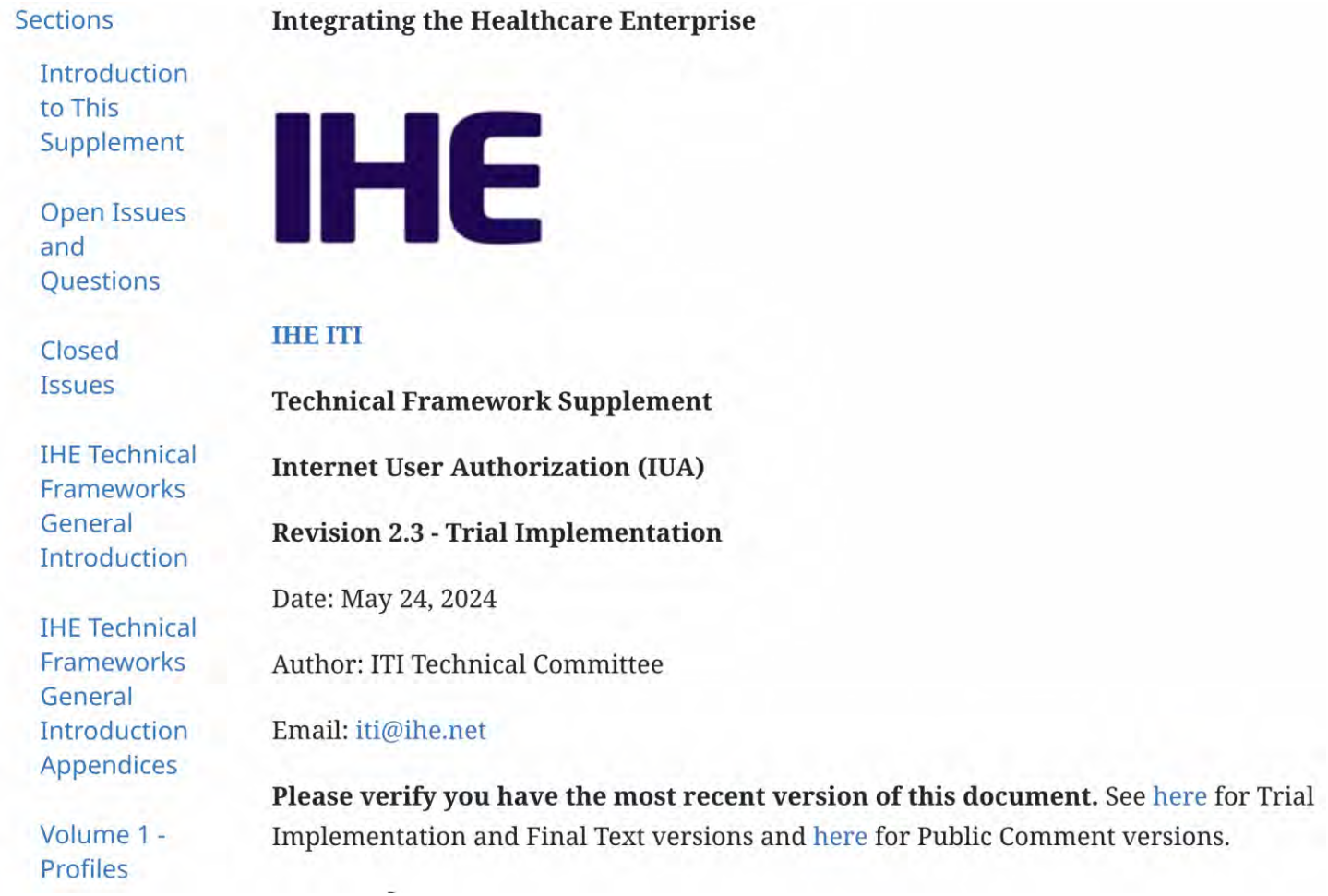
- Consistent Time (CT)
- Audit Trail and Node Authentication (ATNA)
- Cross-Enterprise Clinical Documents Share (XDS.b)
- Mobile access to Health Documents (MHD)

IT-Infrastructure



https://www.ihe.net/about_ihe/faq/ - What_is_the_IHE_Technical_Framework?

Internet User Authorization (IUA)



Sections

- Introduction to This Supplement
- Open Issues and Questions
- Closed Issues
- IHE Technical Frameworks General Introduction
- IHE Technical Frameworks General Introduction Appendices
- Volume 1 - Profiles

Integrating the Healthcare Enterprise

IHE

IHE ITI

Technical Framework Supplement

Internet User Authorization (IUA)

Revision 2.3 - Trial Implementation

Date: May 24, 2024

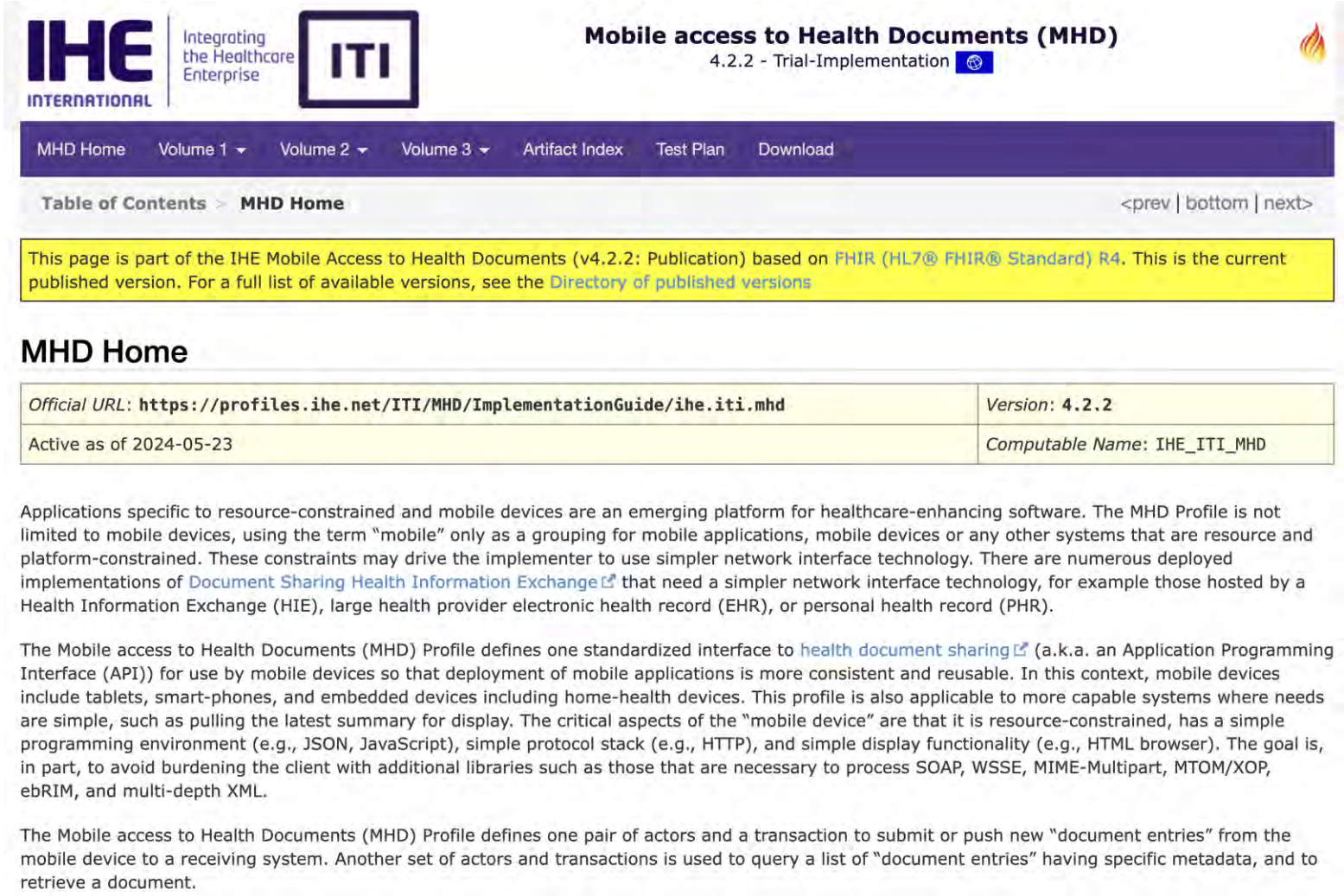
Author: ITI Technical Committee

Email: iti@ihe.net

Please verify you have the most recent version of this document. See here for Trial Implementation and Final Text versions and here for Public Comment versions.

https://profiles.ihe.net/ITI/IUA/index.html

Mobile access to Health Documents (MHD)



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

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

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This page is part of the IHE Mobile Access to Health Documents (v4.2.2: Publication) 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

MHD Home

Official URL: **https://profiles.ihe.net/ITI/MHD/ImplementationGuide/ihe.iti.mhd**	*Version*: **4.2.2**
Active as of 2024-05-23	*Computable Name*: IHE_ITI_MHD

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

IHE Profile Development Process

- Allmost all IHE «mobile» Profiles are now published as FHIR Implementation Guides with
  - Actors, Transactions defined
  - Conformance Resources (StructureDefinitions, ValueSets, CodeSytems, ConceptMaps, Extensions etc)
  - and with examples!

- Facilitates also testing because Implementation Guides can be used for validation during development.

IHE Profile Development Process

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

https://github.com/orgs/IHE/projects/8

Major Profile Updates since June 2024

New Profiles:

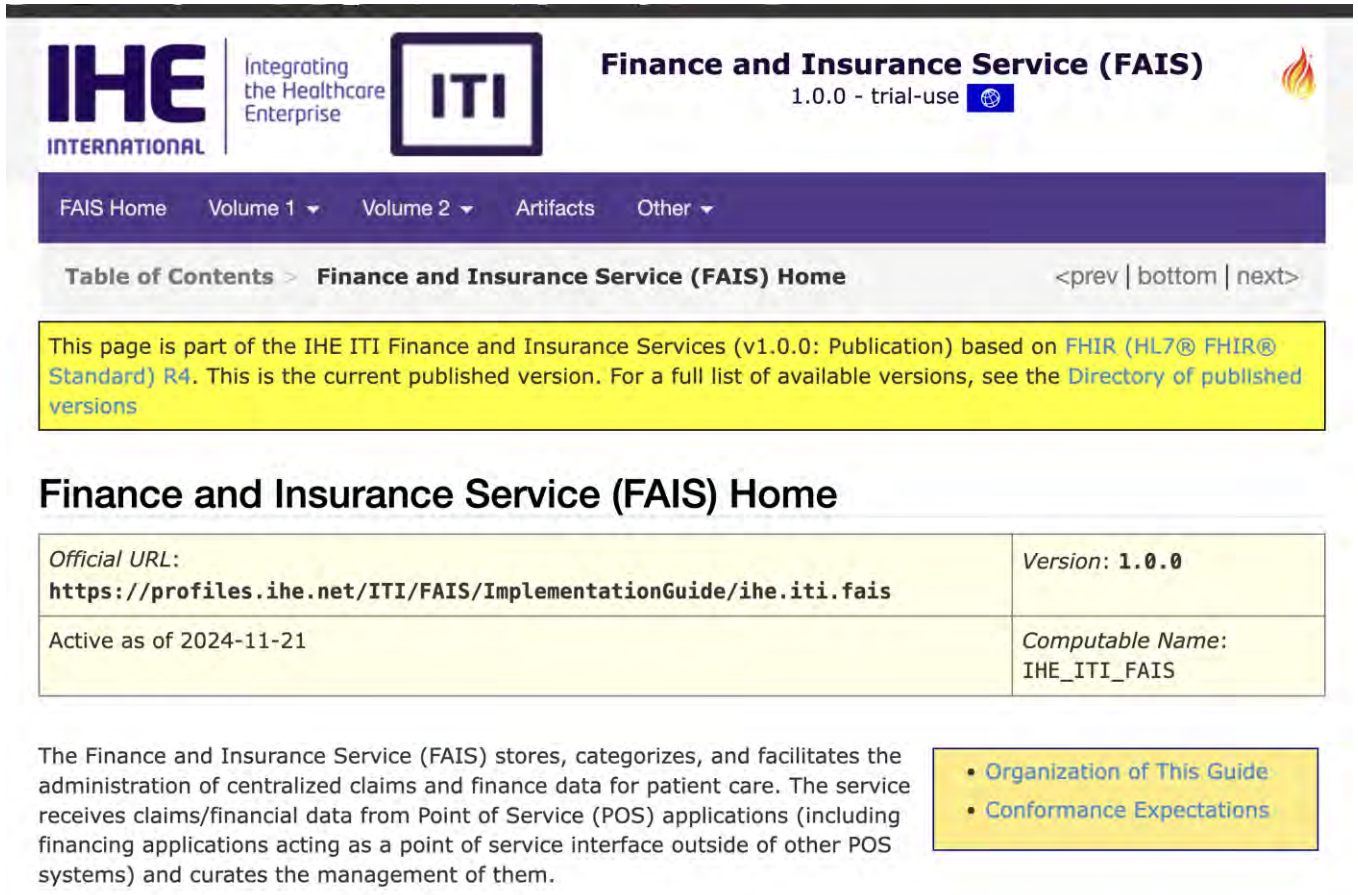
- Finance and Insurance Service (FAIS) Release 1.0.0
- Scheduling Release 1.0.0

Public Comment (to be announced)

- ITI sex and gender profiling
- mCSD additional transaction for Feed

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

Hot profiles for CAT – FAIS



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Finance and Insurance Service (FAIS)
1.0.0 - trial-use

FAIS Home | Volume 1 | Volume 2 | Artifacts | Other

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This page is part of the IHE ITI Finance and Insurance Services (v1.0.0: Publication) 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

Finance and Insurance Service (FAIS) Home

Official URL: **https://profiles.ihe.net/ITI/FAIS/ImplementationGuide/ihe.iti.fais**	*Version*: **1.0.0**
Active as of 2024-11-21	*Computable Name*: IHE_ITI_FAIS

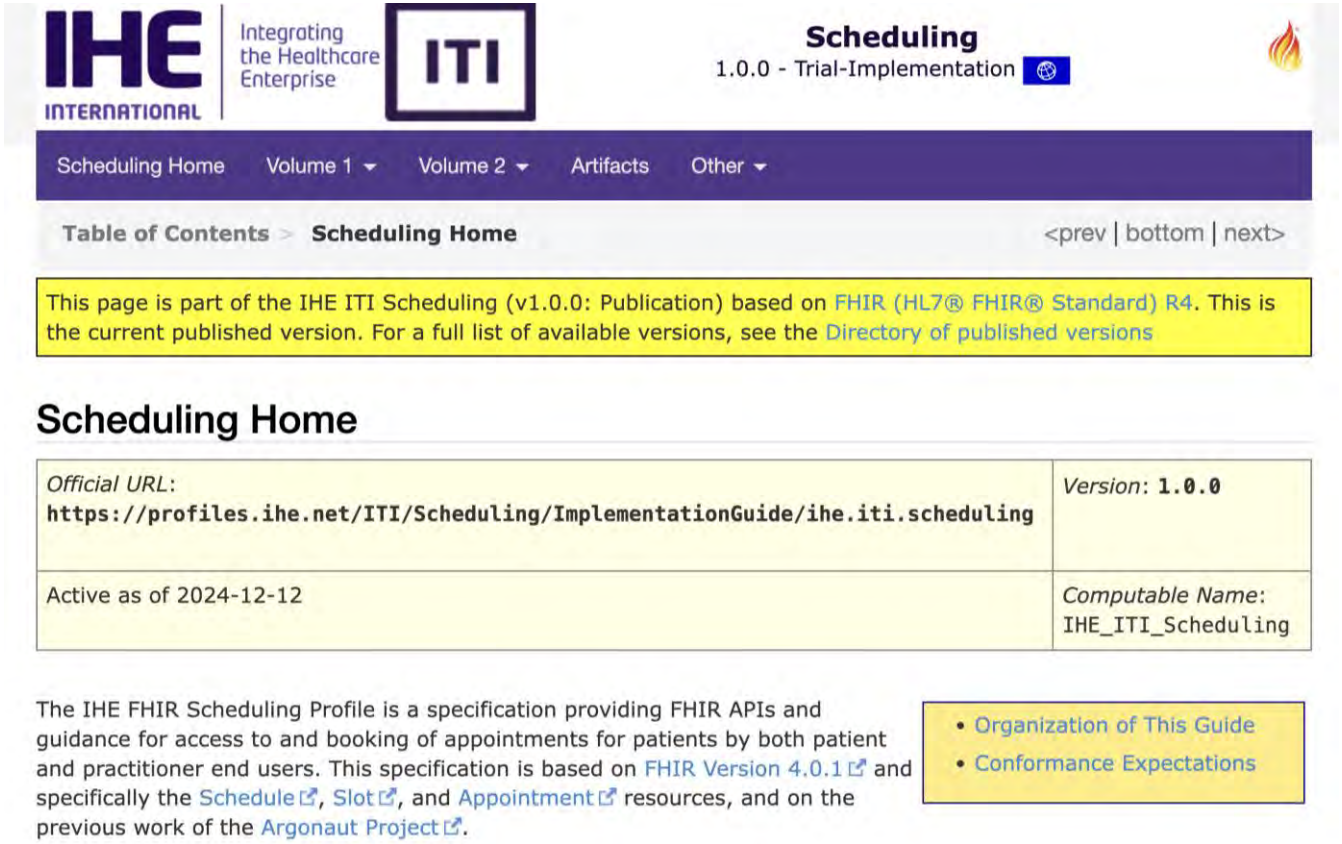
The Finance and Insurance Service (FAIS) stores, categorizes, and facilitates the administration of centralized claims and finance data for patient care. The service receives claims/financial data from Point of Service (POS) applications (including financing applications acting as a point of service interface outside of other POS systems) and curates the management of them.

- Organization of This Guide
- Conformance Expectations

- Finance and Insurance Service (FAIS) Release 1.0.0

https://profiles.ihe.net/ITI/FAIS/index.html

Hot profiles for CAT – Scheduling



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Scheduling
1.0.0 - Trial-Implementation

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This page is part of the IHE ITI Scheduling (v1.0.0: Publication) 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

Scheduling Home

Official URL: **https://profiles.ihe.net/ITI/Scheduling/ImplementationGuide/ihe.iti.scheduling**	*Version*: **1.0.0**
Active as of 2024-12-12	*Computable Name*: IHE_ITI_Scheduling

The IHE FHIR Scheduling Profile is a specification providing FHIR APIs and guidance for access to and booking of appointments for patients by both patient and practitioner end users. This specification is based on FHIR Version 4.0.1 and specifically the Schedule, Slot, and Appointment resources, and on the previous work of the Argonaut Project.

- Organization of This Guide
- Conformance Expectations

https://profiles.ihe.net/ITI/Scheduling/index.html

Change Proposal (CP) Integration

IHE IT Infrastructure (ITI) Technical Framework, Volume 1 Revision 20.1, December 12, 2024 - Final Text

Technical Framework Revision 20.1

- Document Digital Signature (DSG) addition of JSON Signature
- DSUB extensions was updated to add more subscription capability, similar to DSUBm.
- XDS/XCA / XCPD / XUA / Volume 3

Supplement

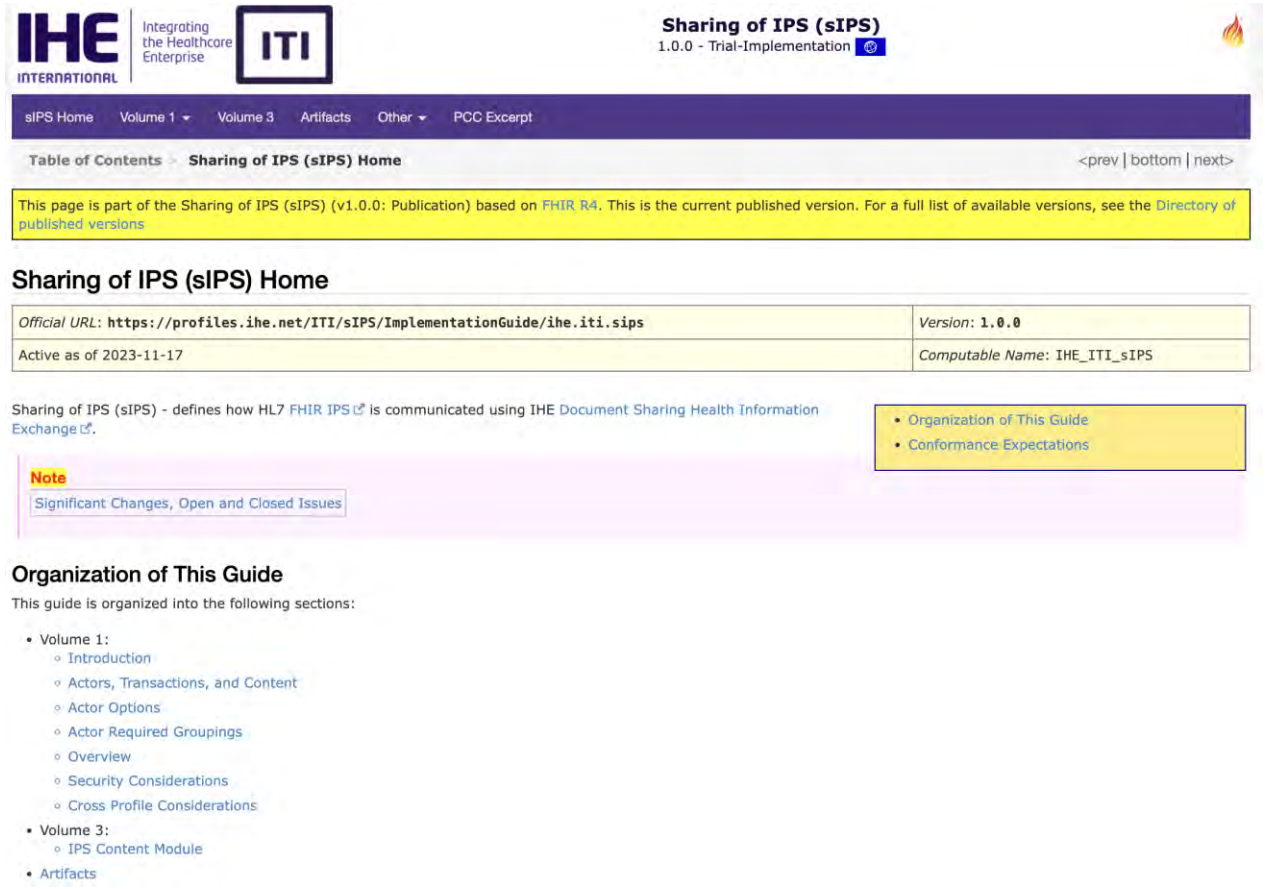
- Add RESTful ATNA (Query and Feed)
- Internet User Authorization (IUA) Revision 2.3 - Trial Implementation

Profiles in Implementation Guides

- Mobile Care Services Discovery (mCSD) Release 3.9.0 (history)
- Patient Demographics Query for Mobile (PDQm) Release 3.1.0 (history)
- Mobile access to Health Documents (MHD) Release 4.2.2 (history)

ITI TF volume integration: https://github.com/IHE/publications/releases
Change Proposals overview

Hot profiles for CAT – sIPS



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Sharing of IPS (sIPS)
1.0.0 - Trial-Implementation

sIPS Home | Volume 1 | Volume 3 | Artifacts | Other | PCC Excerpt

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This page is part of the Sharing of IPS (sIPS) (v1.0.0: Publication) based on FHIR R4. This is the current published version. For a full list of available versions, see the Directory of published versions

Sharing of IPS (sIPS) Home

Official URL: **https://profiles.ihe.net/ITI/sIPS/ImplementationGuide/ihe.iti.sips**	*Version*: **1.0.0**
Active as of 2023-11-17	*Computable Name*: IHE_ITI_sIPS

Sharing of IPS (sIPS) - defines how HL7 FHIR IPS is communicated using IHE Document Sharing Health Information Exchange.

- Organization of This Guide
- Conformance Expectations

Note
Significant Changes, Open and Closed Issues

Organization of This Guide

This guide is organized into the following sections:

- Volume 1:
  - Introduction
  - Actors, Transactions, and Content
  - Actor Options
  - Actor Required Groupings
  - Overview
  - Security Considerations
  - Cross Profile Considerations
- Volume 3:
  - IPS Content Module
- Artifacts

- Publishing an IPS
- On Demand Access to an IPS
- Retrieving an IPS
- Pushing an IPS to a Recipient

Will add support for CDA IPS

https://profiles.ihe.net/ITI/sIPS/

In development in ITI

- Sharing Verifiable Health Links (VHL)
- ITI XCDR Endpoint Addressing
- De-identification handbook update (DeId)
- XCA federation of MHDS community

https://github.com/IHE/IT-Infrastructure/projects/2

Resources

- Summary of all the IHE ITI profiles:
  https://profiles.ihe.net/ITI/index.html

To Contact Us…

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Questions??