

Board Report: IHE Pharmacy Domain July 7th, 2020

Sponsors:

- European Association of Hospital Pharmacists (EAHP), Brussels, Belgium
- Nictiz Nationaal ICT Instituut in de Zorg (National IT Institute for Healthcare), Den Haag, Netherlands
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Leadership:

- Secretariat: Simon Letellier (sletellier@ihe.net)
- Board Representative: Jürgen Brandstätter (j.brandstaetter@codewerk.at)
- Tech Cmte Co-chair: Jürgen Brandstätter (j.brandstaetter@codewerk.at)
- Plan Cmte Co-chair: Michael Tan, (tan@nictiz.nl)
- Plan Cmte Co-chair: José Costa Teixeira (jose.a.teixeira@gmail.com)
- Tech Cmte user co-chair: Esther Peelen ()
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Membership Rosters:

- <https://docs.google.com/spreadsheet/ccc?key=0ArqJz8E3oKHodHpSVThZUXNhM3dYdzNaLTZTbUVvZGc>
https://docs.google.com/spreadsheets/d/1W3iQOvBY6UyhUdNJt88i77m_R76WWwlq/edit?usp=sharing&oid=107320431784779925955&rtpof=true&sd=true

Activity:

- Domain Scope: **IHE Pharmacy** addresses information sharing, workflow and patient care in both community and hospital pharmacies.
- Current Cycle Timeline/Milestones: <http://wiki.ihe.net/index.php?title=Pharmacy>
- Background: IHE Pharmacy was founded 2008 and created its first profiles for Hospital- and Community Pharmacy in 2010.

Most Significant Profiles (recent):

Title	# vendor (Cthon)	# product (Registry)	Description	Notes
Community Pharmacy profiles (CMPD, PRE, DIS, PADV, PML, MTP)			Community Pharmacy Integration and Content Profiles for Medication Planning, Prescription and Dispense and reporting in the ambulatory sector.	Its importance is confirmed by the fact that it is already used as basis for the prescription specifications of national/regional programs, e.g. Austrian e-Medication project, eHDSI, Saudi e-Health Exchange, Swiss e-Medication project, Polish e-Prescription project, Greek nationale ePrescription project etc.

Mobile Medication Administration (MMA)			Medication workflow for medication requests and confirmation of the administration using mobile devices.	Mobile health is growing in importance. This profile is essential for patient centered self-care in PHR's. It is the first profile using FHIR standard in Pharmacy.
Uniform Barcode Processing (UBP)			Generic workflow for the processing of barcodes	This profile is part of other workflows and can be used generically. It will play an important role in regulations such as FMD, UDI.
Community Medication Administration (CMA)			Documentation of Medication Administration	This profile is part of the CMPD workflow the medication administration is based on CDA documents.

vendor @CThon is a total count of successful vendors from Connectathon-results.ihe.net for all years

product @Registry is a count of registered Statements from Product-registry.ihe.net

Counts from prior report are in parentheses to show recent growth.

<Don't list every profile. If all are equally significant, it likely means none of them are.>

Significant Deployment Activity:

Region	Organization Name	Profiles	Project Status (planning, installation, operational)	Contact
EC	Connect Europe facility "CEF eHDSI"		Pan European infrastructure including eP/eD services developed during epSOS, is part of the eHealth Digital Service Infrastructure (eHDSI). Deployment is in progress. Started in 2019. 22 countries are part of the project.	SANTE-EHDSI-SECRETARIAT@ec.europa.eu
Austria	Austrian National Health Record (ELGA):	CMPD, PRE, DIS, PADV, PML	The specification of the nation-wide Austrian e-Medication project is currently set to be fully based on IHE Pharmacy profiles: CMPD, PRE, DIS, PADV and PML. Specification has been started 2013 and was finished in end of 2014. Implementation planned for 2015. Nation-wide rollout started Dec 2015. Currently 50% of the country is now connected. Currently also exploring FHIR profiles	Stefan.sabutsch@elga.gv.at

Geneva Vaud	CDA-CH-E MED	PML, MTP, DIS, CMPD, PRE, PADV	Regional EPR Community CARA (most of french-speaking part of Switzerland) is developing an e-Medication Service based on IHE Pharmacy profiles (MTP, PRE, DIS, PADV, PML). Development is the prototype of the national eMedication Service.	stephane.spahni@hcuge.ch
Switzerland	e-Medication	MTP, PRE, DIS, PADV PML, ADM	National technical architecture for exchanges of medication related information (EMED) within EPR national infrastructure has been released in February 2020. Technical specification is expected in Autumn 2020. Full implementation of eMedication Service in every regional HIE (based on national EPR law) is expected around 2024 (requirement: 3 successful national projectathons).	stephane.spahni@hcuge.ch
Germany	Personal Medication List	PML	A content definition of a list of the patient's current medication was developed and published. This CDA implementation guide reuses elements of published IHE PHARM and IHE PCC specifications, especially the medication template 1.3.6.1.4.1.19376.1.5.3.1.4.7. This specification is used in pilot projects in regional networks in North-Rhine-Westfalia and is considered as one candidate for a future national implementation of the Personal Medication List. The specification was balloted by the membership of HL7 Germany (Affiliate of HL7 International), see http://wiki.hl7.de/index.php/IG:Patientenbezogener_Medikationsplan comment reconciliation is in progress	
Poland	e-Prescription	PRE, DIS	The specification of the nation-wide Polish e-Prescription project, with focus on reimbursement, has been set on the basis of PRE and DIS profiles for recording prescriptions and dispenses. Local extensions are used to cover additional	CSIOZ National Centre for Healthcare Information Systems ?? Check with Juergen, GS1 poland

			data-elements needed for reimbursement. Poland went live in January 2020. Doctors must prove e-prescription.	
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Connectathons, Demonstrations and Other Events:

- No demonstrations
- Presentations
 - **2019-02-23; Symposium Pharmaceutical Association of Serbia-Hospital Pharmacy Section**
Belgrade, Serbia
 - **2019-03-26: GS1 Global Healthcare Conference Noordwijk**
 - **2019-04-05: HL7 Netherlands WGM: Workshop UBP at the Dutch Working Group Meeting.** An online demonstrator is online available.
 - **2019-03-07 Bern.** Swiss eHealth forum: Presentation of eMedication Strategy for French speaking regions.
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- **Profiles for Supply of Products for Healthcare**
 - These profiles will provide the interoperability mechanisms for the supply of items, not only inside Pharmacy flows, but also for / from other domains.
 - [Vision of proposal and background, Slides shown](#)
 - **Uniform Barcode Processing**
 - In several transactions the element “Uniform Barcode Processing” is crucial to make sure the standardized information from the barcode is used by the actors in the transactions we designed. We distinguish three organizations that deliver this standardized information on product Id, batch number, expiry date, serial number, location number, patient and staff identification: GS1, HIBC en ICCBBA. By incorporating the ‘uniform barcode processing’ element in the defined transactions we support inventory management, order, administration of pharmaceuticals and use of medical devices on patients.

New Profiles Proposals:

Supply profiles			Workprofile to support the supply of products such as medication, implants etc for the ordering insitutions including	

			tracking and tracing according to FMD and UDI rules.	

Trends:

- Mobile Health is moving onwards requiring optimal data solutions like the use of FHIR standards. We need to analyze the need of using these standards in existing Pharmacy profiles.
- The use of FHIR resources challenges IHE Pharmacy as it is likely to result in multiple competing incompatible implementations in Pharmacy domain (e.g. e-health projects and IT vendors), while the FHIR standard is still developing.

Summary of Future Plans:

- Strategic
 - Promote widespread adoption and implementation of IHE PHARM-developed profiles
 - Improve information exchange between healthcare providers and organizations that depend on Pharmacy related workflows and processes
 - Marketing and promoting the profiles globally.
 - Support healthcare providers in communicating and expressing the need for standards and negotiating with IT vendors.
 - Reaching out for national Pharmacy programs in order to learn requirements and demands which lead to developments within IHE Pharmacy
 - Actively involving IT vendors in developing and implementing the standards.
 - Establishing and maintaining collaboration to other IHE domains.
 - Collaborate with PCC on device tracking and the use of UBP
 - Collaborate with other domains on the product registries, for example on medical devices.
 - Maintaining collaboration to HL7 Pharmacy, ISO TC215 WG6 and GS1.
- Technical Frameworks
 - Further refinement of existing profiles, consolidation (enhance existing use-cases, identifying missing use-cases)
 - Upcoming profiles for
 - Supply of Products for Healthcare
 - Common Functional Model (Next generation Common Profile based on FHIR)
 - Healthcare Products Catalog Interoperability
 - Immunizations status and planning.
 - Adverse Drug Event Reporting
- Whitepapers and other
 - Whitepaper on supply profiles has been published.

See the detailed strategic planning at http://wiki.ihe.net/index.php?title=PHARM_Strategic_Planning

See the detailed roadmap at http://wiki.ihe.net/index.php?title=PHARM_Roadmap