Board Report: IHE Pharmacy Domain

Sponsors:

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

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Membership Rosters:

- Planning/Technical Committee link to current roster is
  https://docs.google.com/spreadsheet/ccc?key=0ArqJz8E3oKHodHpSVThZUXNhM3dYdzNaLTZTbUVvZGc

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:

Title	# vendor (Cthon)	# product (Registry)	Description	Notes
Community Medication Prescription and Dispense (CMPD)	0	2	Community Medication Prescription and Dispense integrates prescription, validation and dispense of medication in the ambulatory sector.	The CMPD profile is significant because it is currently used as basis for the specification of national/regional cross-organization prescribing/dispensing projects. Involvement of vendors in this area is driven by such national/regional programs only, therefore it is expected that these specifications will have a strong impact on vendors within the next years. Its importance is confirmed by the fact that it is already used as basis for the interoperability specifications of national/regional programs, e.g. Austrian e-Medication project, Saudi e-Health Exchange, etc.
Hospital Medication Workflow (HMW)	3	1	Hospital Medication Workflow integrates prescription, validation, dispensation, distribution and administration of medication inside healthcare institutions.	It's the essential profile for the clinical part of medication workflow within hospitals. All "in-house" clinical medication workflows project onto this profile.
Pharmacy Prescription (PRE)	6	4	Content definition of the Pharmacy Prescription Document recording prescription.	It is significant because it provides the essential content definition of a prescription used in context of the CMPD workflow profile. 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, epSOS, Saudi e-Health Exchange, etc.
Pharmacy Dispense	5	3	Content definition of the Pharmacy Dispense	It is significant because it provides the essential content definition of a

(DIS)			**Document recording the dispense of a medication to a patient.**	**dispense used in context of the CMPD workflow profile.** **Its importance is confirmed by the fact that it is already used as basis for the dispense specifications of national/regional programs, e.g. Austrian e-Medication project, epSOS, Saudi e-Health Exchange, etc.**
Pharmacy Medication List (PML)	**0**	**0**	**Content definition of a Pharmacy Medication List, containing a list of a patient's medication.**	**It is significant due to the need for a medication list which contains not only a summary, but the details of a patient's medication history (prescribed medication, dispensed medication, etc.).** **It's importance is confirmed by the fact that it is taken up by the Austrian e-Medication project and Geneva SMTL project**

Significant Deployment Activity:

- **European Large scale pilot project "epSOS"**, pilot phase, using a specification 90% similar to PRE and DIS profiles. The epSOS project has finished in June 2014, but epSOS infrastructures are still in use in some countries. The follow-up projects to epSOS, such as EXPAND, build on top of the epSOS specifications.
- **Austrian National Health Record (ELGA)**: 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 shall be finished in end of 2014. Implementation planned for 2015. Nation-wide rollout starts Jan 2016.
- **Saudi e-Health Exchange platform (SeHE)**: The specification of the nation-wide Saudi-Arabian e-Prescription/e-Dispensation project is currently set to be fully based on IHE Pharmacy profiles: CMPD, PRE, DIS, PADV. Specification has been started 2013 and shall be finished in end of 2014.
- **SMTL** project in Geneva/Switzerland ("shared medication treatment list") leveraging the Pharmacy Medication List (PML) profile

Demonstrations and Other Events:

- No demonstrations
- Presentations
  - European Commission eHealth Forum, Athens Jun 2014
  - HL7/IHE Germany Annual meeting in Kassel, Germany, Oct 2014

Current activities

Medication Data Collection and Medication Management

These two items represent the two aspects of managing the cycle of medication information: From capturing the data in an interoperable form (Medication Data Collection) to the overall cycle of the medication data (from prescription to therapy, further review and new prescription).

- **Medication Data Collection**
  - Describe the different sources of medication data and the mechanisms to retrieve and store that data
  - Vision of proposal and background
  - Location on FTP

- **Medication Management**
  - Describe the cycle of the information concerning medication around the treatment cycle.
  - Location on FTP

- **Document "Medication Management Related Concepts and Definitions"**
  - Bridging definitions from discussions about "medication Lists, medication plans, medication history"
  - Link to google doc

Supply of Healthcare Products

- **Whitepaper "Medication Distribution and Supply"**
  - This whitepaper exposes the aspects of the Supply of items which is an intrinsic part of the pharmacy workflows. Current status: Contains enough information to be closed. Sufficient for starting the profile development intended. Some open issues (e.g. blood derived products, etc.) could be delivered in later versions. The Whitepaper will be finalized to an internal version.

- **Profiles for Supply of Products for Healthcare and Healthcare Inventory Management**
  - 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
  - Location on FTP

Healthcare Products Catalog interoperability

- **Whitepaper Healthcare Products Catalog interoperability**
  - This document elicits the use cases, requirements and standards for exchange of product information (catalogs) in Hospital AND Community Pharmacy.

- o Current version
- **Profile**
  - o A profile has been proposed for current cycle given the expectation to deliver a first version of the whitepaper during this cycle.

Medication Therapy

Agreed on the working title "**Medication Therapy Plan Item**", this work-item deals with a new layer above Prescription/Dispensation for documenting a "Medication Therapy" to a patient.

See the Vision of the work ahead

Location on FTP

Pharmacy Administration and Medication Statement (for Community)

New Content Profile for "Pharmacy Administration" to document one single administration event of a medication.

New Content Profile for "Medication Statement" to document a patient's statement about taking medication (e.g., "I took Paracetamol for the last 4 weeks").

Presentation: Open issues and the work ahead

Location on FTP: Medication Administration

Location on FTP, Medication Statement

Hospital Medication Workflow (HMW) Revamp

This work is intended to improve the profile for Hospital Pharmacies, to improve ease of adoption, optionality of transactions, small updates (security, typos, ...).

During the rework, this profile will also will be prepared to support the upcoming standard FHIR from HL7.

Hospital-Community Use Cases Whitepaper

This whitepaper contains certain use-cases related to the transition of a patient between Hospital and Community area (in-patient/out-patient). The Whitepaper will NOT be published itself, but will be inserted into the Common Pharmacy Whitepaper.

The Current version on FTP

Overview of all Pharmacy use cases covered by Pharmacy profiles

An overview of all Pharmacy use cases covered by Pharmacy profiles has been created and will be maintained from now on.

ftp://ftp.ihe.net/Pharmacy/Technical_Framework/Use-case%20overview/Use-case%20overview.xlsx

Summary of Future Plans (dominating topics are marked bold):

- 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
    - Develop ways to automate collaborative workflow between physicians and pharmacists in both community and hospital pharmacy environment
    - Marketing and promoting the profiles in regions outside of Europe (US, Canada, Asia, Latin America, etc.)
    - Reaching out for national Pharmacy programs in order to learn requirements and demands which lead to developments within IHE Pharmacy
    - Establishing and maintaining collaboration to other IHE domains
    - **Maintaining collaboration to HL7 Pharmacy**
    - **Maintaining collaboration to ISO TC215 WG6 Pharmacy**
    - Establishing communication channel to NCPDP
- Technical Frameworks
    - Further refinement of existing profiles, consolidation (enhance existing use-cases, identifying missing use-cases)
    - **Upcoming profiles for**
        - **Supply**
        - **Inventory**
        - **Healthcare Products Catalog interoperability**
        - **Medication Therapy**
        - **Pharmacy Administration**
        - **Medication Statement**
- Whitepapers and other
    - **Whitepaper on "Medication Data Collection" and "Medication Management"** (cross-domain work with HL7 and ISO WG6)
    - Transition between the Community- and Hospital Pharmacy sector
    - Joint work with PCD concerning perfusion administration devices
    - **Medication supply chain logistics** in hospitals: solve questions of supply, linked to the HMW profile, with or without automated systems
    - Whitepaper on Therapeutic formulary
    - Glossary synchronization with HL7 and ISO

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