e-Immunization

Potential „Gemini“ Pilot Project

Project „GEMINI“ - A Joint Initiative of IHE and HL7 to Advance Use of FHIR for Interoperability

Jürgen Brandstätter (Gemini Steering Committee)
Purpose

A Joint effort to develop a

“best-of-breed” interoperability standard for e-Immunization based on FHIR
e-Immunization

• Globally needed, thus needs investigation ...
  – ... what are the globally common use-cases?
  – ... for each use-case: what’s globally common?

• Use-cases identified so far:
  – *Electronic recording of vaccinations administered*
    • including natural immunizations
  – *Get Immunization status of a patient / citizen*, including
    • National Vaccination Plans,
    • Personal Vaccination Plans
    • Actual vaccinations and immunizations
  – *Notify a patient / citizen on pending vaccinations*

Purpose of this project: Profiling of each use-case on the basis what’s globally common
  – Using the HL7 FHIR standard (and in parallel: CDA)
Still a pending interoperability issue, because ...

- ... many countries/regions still without e-Immunization
- ... some implementations exist, but they are all different
- ... lots of them based not on international standards, but on propriety specifications
- ... if based on international standards, they still are different

Without the presence of „FHIR-based IHE profiles“, no product testing can take place
-> the entire cost-effectiveness can NOT be leveraged!
The idea

Country A
Requirements

Country B
Requirements

Country C
Requirements

Requirements & Review

Expertise

Joint working group within IHE PHARM

Coordination & Main work

Coordinator (bearing the foot work)
The idea

**Joint working group within IHE PHARM**

- Country A
  - Requirements
- Country B
  - Requirements
- Country C
  - Requirements

- **FHIR-based IHE Profile**
  - (bearing the foot work)
Funding

Country A
Requirements
Fund

Country B
Requirements
Fund

Country C
Requirements
Fund

Requirements & Review

Expertise
Volunteer

Joint working group within IHE PHARM

Coordinator (bearing the foot work)

Coordination & Main work

IHE

SIL-Asia

23.10.2018 GEMINI - A Joint Initiative, e-Immunization – Potential Pilot Project
About Gemini

• **Area 1: Development and Tooling of „FHIR-based IHE profiles“**
  – FHIR-based IHE profiles remain under IHE governance, but participation and contribution of HL7 shall be encouraged (as well as participation of IHE in HL7)
  – This includes collaborative work, alignment of tooling, mutual notification of new work-items, etc.

• **Area 2: Publication of „FHIR-based IHE profiles“**
  – Align publication of FHIR Implementation Guides and FHIR-based IHE profiles by referencing FHIR-based IHE profiles on [fhir.org](http://fhir.org)

• **Area 3: Testing**
  – Positioning of the current testing initiatives, such as HL7 FHIR Connectathons, IHE Connectathons, IHE Conformity Assessment and coordination of the test tooling ecosystem across both organizations

• **Area 4: Pilot projects**
  – Identify, agree and execute joint IHE/HL7 pilot projects and demonstrations

• **Area 5: Joint Messaging and Marketing**
  – Maintain joint messaging/marketing/education on HL7 FHIR and FHIR-based IHE profiles on [fhir.org](http://fhir.org)
From Standard to Tested Interoperable Product

IHE - A Joint Initiative, e-Immunization – Potential Pilot Project

Path from Standard to Tested Interoperable Product
Thank you
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