Towards an International Patient Summary Standard

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Trillium Bridge Project

**What:**
- Pragmatic Feasibility study on the exchange of Patient Summaries across the Atlantic

**How:**
- Comparing, analyzing, and mapping patient summaries starting with Meaningful Use 2 C-CDA/CCD and EU patient summaries (epSOS)

**When:**
- From: July 2013 to June 2015

**Who:**
- A stellar consortium comprising EU member state ministries, provider networks, industry, associations, SDOs
Workplan of Trillium Bridge

Selecting Grounds:
- Pilot Use Cases
- Business Architecture
- Gap Analysis

Building the Bridge:
- Aligning Structure & Terminology
- Trust Agreements
- Interoperability assets

Testing the Bridge:
- Testing Tools
- Data Sets
- Validation Reports

Policy Convergence:
- Feasibility Analysis
- Cross-vendor integration
- Incentives
- Standardization
- Innovative Business models
- eIdentification,
- Security and privacy
- Education
- Clinical Research

IHE XCPD
IHE XCA
IHE ATNA (eHealth)

Transformer (CTS2)

Trillium Bridge Gateway (epSOS Open NCP)

National Contact Point

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Comparison of EHR summaries and the JIC International Patient Summary Standard Sets

The Joint Initiative Council unanimously endorses this key recommendation and, through strategic global leadership in health informatics standardization, we are committed to: enabling practical standards-based health information sharing, contributing to better patient health and more effective health outcomes, and undertaking specific initiatives that address these global needs. In particular, we are currently focused on bringing together core sets of compatible standards needed to support: use of patient care summaries within and across communities and implementation of the Trillium Bridge recommendation and we are committed to work with others who share these goals.

JIC endorsement
Follow-up with Patient Summary Standard Sets project

Joint Initiative Council (JIC) on SDO Global Health Informatics Standardization

Funded by EC FP7 (610756)
Amsterdam, eHealth Week 2016
Achievements of Trillium Bridge

**Gap analysis**
- Compared patient summary specifications in EU/US
- Shared clinical elements: problems, medications, allergies

**Interoperability Assets**
- Established a terminology prototype CTS-2 service: [http://extension.phast.fr/STS_UI](http://extension.phast.fr/STS_UI)
- Developed Transformer of Patient summaries: [http://informatics.mayo.edu/trillium-bridge](http://informatics.mayo.edu/trillium-bridge)
- Mediated Differences in EU/US IHE XCPD/XCA profiles for Patient Identity and Document Query/Retrieve

**Validation activities: 4 EU countries/ Kaiser Permanente**
- EU/US Marketplace; HIMSS 2015; IHE Europe Connectathon 2015, eHealthWeek 2014,15

**Feasibility study:**
- Reflected upon standards, cross-vendor integration, incentives, clinical research, security and privacy, innovative business models, education

**Recommendation:**
“Advance an International Patient Summary (IPS) standard to enable people to access and share their health information for emergency or unplanned care anywhere and as needed. At minimum the IPS should include immunizations, allergies, medications, clinical problems, past operations and implants.”

Funded by EC FP7 (610756)
International Patient Summary

SDO collaboration on the IPS standard

engage clinicians and patients

support public health and secondary uses

quality assure semantic standards

implement governance of quality and accuracy

Future standardisation

The Joint Initiative Council (JIC) on its meeting on the 22nd of July 2015, voted unanimously the following endorsement to the Trillium Bridge key recommendation.

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In particular, we are currently focused on bringing together core sets of compatible standards needed to support: use of patient care summaries within and across communities and implementation of the Trillium Bridge recommendation and we are committed to work with others who share these goals.
At a rapid face of just-in-time disruption, Standards Developing Organizations need to cooperate

- to deliver quality, interoperability, and knowledge timely at an affordable cost.
- to look outside
- to listen to the users
- to rethink standards and tools that support their full lifecycle
- To deliver live eStandards
Making it Real!

Use Cases for emergency and unplanned care and beyond..

• Taking the work of JIC standard set, InterPAS, CEN TC 251/IPS we call analyze each part of the puzzle:
  – problems and procedures
  – Medications and implantable devices
  – vaccinations
  – allergies
  – labs
  – images
  – encounters

• Uses Cases: extending the scope of patient summaries from unplanned emergency...
• There are many situations where patient summaries are useful:
  - Tourism, Immigrants, Disasters, Rare diseases, Epidemics
• Common thread is information, at the right place at the right, to make correct decisions.
• Whether it is Precision medicine or population health, standards are infrastructure for innovation.
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