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Project report Cross Border eHealth Information System (CBeHIS)

Period July - December 2017

University Hospitals of Geneva (HUG)

09.01.2018

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ehealthsuisse

Kompetenz- und Koordinationsstelle
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Centre de compétences et de coordination
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1. Background

This report describes HUG activities performed during the second semester 2017 in relation with the participation of Switzerland to the Connecting Europe Facility and the CBeHIS.

The second semester 2017 was a consolidation period for the NCP and the content of the Patient Summary as well as the preparation for the technical audit. A major change also occurred at the FOPH, with the arrival of Thorsten Kühn, taking of Reinhold Sojer.

On EU side, work was undertaken mainly by JASeHN (Joint Action to Support eHealth Network) Task 5.6, eHMSEG (eHealth Network Member States Expert Group) and eHN (eHealth Network) committees as well as OpenNCP community's task forces and especially the TESTA task force.

2. Main activities

Apart from the regular coordination meetings between eHealth-Suisse, FOPH, HES-SO and HUG (5 teleconferences and one face to face), activities performed during the reporting period can be grouped into several topics:

- Related to the JASeHN & eHMSEG;
- Related to the OpenNCP community;
- Related to the maintenance of the National Contact Point.

2.1 Activities related to JASeHN & eHMSEG

HUG actively participated to the work of JASeHN and eHMSEG. One face to face eHMSEG was organized in Brussels and more than 10 teleconferences were dedicated to the establishment of the deployment plan and to discuss audit schema. Review work for the various deliverables occurred during the whole period.

Stéphane Spahni applied to be auditor for other countries' National Contact Point. More information will follow beginning of January 2018.

2.2 Activities related to the OpenNCP

Four major activities took place during the second half of 2017:

- Online pre-projectathon and projectathon tests took place between the 18th and 22nd of September. This was the occasion to validate the latest OpenNCP release (release 2.5.2-RC, planned to be used in production 2018, but patches were still required) and to prepare the formal technical qualification tests that will happen in January / February 2018. All tests were performed and successfully validated by the dedicated validation team.
- The "Patient Summary workshop" from the 5th to the 6th of January was attended by Rafael. Different aspects related to terminologies and content of the Patient Summary were discussed at this occasion.
- The setup of the TESTA connection, required for the technical audit as well as for going live was established during the first half of December thanks to a very active implication of several members of the FOITT and a strong support from the FOPH and European Commission.
- Online tests for validating the latest release candidate as well as TESTA connectivity occurring between the 11th and the 15th of December. This was the occasion for us to complete TESTA configuration and to validate that all network accesses were in place and operational.

Apart from these major events, regular teleconferences occurred during the whole period in order to discuss OpenNCP developments and to solve pending problems (more than 10 teleconferences). The OpenNCP Technical Work Group also had 7 teleconferences during this period while the TESTA Task Force had 13 ad-hoc teleconferences.

OpenNCP Governance:

- Stéphane Spahni is member of the OpenNCP Technical Work Group
- Rafael Jimenez is member of the OpenNCP Development Team

2.3 Activities related to the maintenance of the National Contact Point

Swiss OpenNCP installation was updated with new releases for the online PAT of September as well as for the TESTA connectivity week in December. A major update of the underlying system (operating system, application servers, etc.) was performed in November 2017 in order to validate the TESTA connectivity with the latest operating system version (which will be used for the production server). The move to TESTA infrastructure also enable us to update NCP mapping tables by downloading the MVC from the central terminology server through this secured connection.

The Swiss NCP is now using GAZELLE X.509 certificates like all other NCPs. This situation will stay until CEF eDelivery is able to provide ad-hoc certificates (expected for 2018).

Maintenance work was also performed on the application producing the Patient Summary, in order to enhance it and to adapt it to newly available data from the HUG Clinical Information System.

3. Problems encountered

No major problem was encountered during this period. Swiss participation is fully accepted, and we are globally considered as a “normal” member. This is particularly visible on the technical side, where Switzerland is one of the experienced participants and this recognized as a reference one.

Several key elements requiring careful follow-on have nevertheless to be mentioned:

- Administrative and legal audit: Audit should be performed around March 2018, in order to have the report ready for the next eHMSEG on April 18.
- Legal aspects are still unclear: It seems that the formal revision of the cantonal Law will not occur on time. A fallback solution is foreseen through an explicit agreement from the cantonal minister of Health (M. Poggia). However this is still “work in progress”, and compatibility with the future GDPR has to be assessed.
- SSL Certificates: All NCPs are still using temporary certificates from GAZELLE Certification Authority. It is not yet known when CEF eDelivery will be able to provide valid certificate for NCP to NCP communication. No action is however required on our side at the moment.
- eID related requirements are to be followed carefully especially in terms of schedule: Indeed Switzerland is participating to eIDAS, but it seems that no concrete setup of an eIDAS node for Switzerland is currently planned. On the OpenNCP side, substantial resources will be allocated to eID topic in the coming 12 months. It can be expected that eID will be part of the 2019 go-live → work related to the setup of an eIDAS node should start quickly.
→ **Start discussions about concrete eIDAS node implementation at federal offices level as soon as possible (FOPH, SECO, eventually others).**

4. Meetings

HUG participated to:

- 1 face to face eHMSEG in Brussels;
- 2 days Patient Summary Workshop in Prague;
- More than 30 teleconferences related to OpenNCP;
- More than 10 teleconferences related to eHMSEG (mainly deployment plan and audit checklist);
- Several national teleconferences and face to face meetings.

5. Next steps

The second half of 2017 will focus on the following main aspects:

- *Resolution of all technical aspects found and not yet solved during pre-PAT tests (most were solved during on-line projectathon of June 2017);*
→ Done, final tests during technical audit January/February 2018
- *Integration of SMP/SML distribution of configuration information (SMP/SML was not available for pre-PAT testing);*
→ Done, validated during TESTA Connectivity Week in December 2017
- *Adaptation of the Swiss Patient Summary to take into account updates of the specifications and MVC 2.2;*
→ Done, but still ongoing work to enhance PS. Moved to MVC 2.2.2.
- *Set up of a legal framework enabling the go-live under a cantonal responsibility;*
Pending
- *Preparation and contribution to the external audit;*
→ Started, main activity for January/March 2018
- *PAT-on-line final technical validation (September 2017);*
→ Done
- *Preparation for the go-live (installation, helpdesk, surveillance, etc.);*
→ Partly done (installation)
- *Preparatory work for the use of TESTA-ng infrastructure for communication between NCPs and central services;*
→ Finalized in December 2017
- *Preparatory work for a transfer of the NCP infrastructure towards a federal governance and exploitation.*
→ Ongoing

The first half of 2018 will focus on the following main aspects:

- *Enhancements of the Swiss Patient Summary to take into account additional medical information;*
- *Set up of a legal framework enabling the go-live under a cantonal responsibility;*
- *Preparation and realization of the administrative audit, contribution to the audit of other countries;*
- *Technical audit (mid January – mid February);*
- *Finalization of the go-live infrastructure (installation, helpdesk, surveillance, etc.);*
- *Preparatory work for a transfer of the NCP infrastructure towards a federal governance and exploitation;*
- *Work on the Country-B portal for Wave 2.*

*Stéphane Spahni
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January 3rd, 2018*



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(HEG)**

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1. Background

In the second half of 2017, the Semantic group focused on the integration of CTS in the process of translation and diffusion of the MVC on Swiss board. The delivery of the MVC version 2.2.2 and its translation before the PPT was also mandatory.

2. Main activities

The previous version of the system used to map the MVC with the HUG Code Systems was created for the purpose of epSOS, with HUG codes active before 2015. However, the HUG are now working on their own mapping of the different Code Systems used in the DPI to generate a unique and global code system. So that, our main activity planned for the second part of the year was to redesign the HEG mapping system and to update the transcoding to the last release of MVC. We are still working on this task.

A new MVC was prepared and published in October 2017, the 31st. This release, named MVC 2.2.2, includes changes on the following ValueSets: *epSOSAllergenNoDrugs*, *epSOSDisplayLabel*, *epSOSDoseForm*, *epSOSPersonalRelationship* and *epSOSTelecomAddress*.

The translation and the validation of the MVC 2.2.2 were performed via the CTS tool, and we tested its compliance with the CDA created by the NCP.

3. Problems encountered

We had to face some issues during the second semester of 2017:

- The use of CTS to prepare, validate and share the ValueSets translations to the NCP needed some self-training.
- The transcoding of MVC was delayed until the receipt of the new HUG code systems at the end of November.
- The full mapping will not be available before the PPT in January. Instead, we decided to focus on a shortlist of HUG codes used in the testing Patient Summaries (delivery and pre-testing planned with HUG 2 weeks before the PPT). The rest of the mapping will be fulfilled during the first semester of 2018 (before the end of Wave 1).

4. Meetings

The HEG team participated in the following event:

- eHDSI Semantic Face to Face in Brussels (2 days in October, Luc)
- Teleconferences related to OpenNCP (8 Luc + 2 Patrick)
- Teleconferences related to eHDSI Semantic group (7 Luc + 2 Patrick)
- Some eHMSEG meeting related to the CTS (Luc and Patrick)
- Monthly Swiss teleconferences (Luc and Patrick).

5. Next steps

- Complete the redesign of mapping system
- Prepare the transcoding before end of wave 1
- Prepare Wave 2 and restart the eHDSI Semantic/Architecture working groups
 - Future MVC (2.3)
 - How to handle multi-ingredient medicinal products
 - How to handle the codeSystemVersion attribute

Patrick Ruch, Luc Mottin
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December 12th, 2017