

Scandinavian openEHR and ISO13606 workshop

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Abstract

This 1½ hour workshop aims to provide updates from recent Scandinavian projects related to openEHR/ISO13606 and also aims to facilitate a discussion regarding possible future Scandinavian collaboration in research, education, implementation around semantic interoperability. The session will start with a short introduction of some central openEHR/ISO13606-related technologies and concepts that will be mentioned in later parts of the workshop. This is then followed by brief examples of related projects from Scandinavia. The last part of the workshop is a future-oriented open discussion.

Background

The openEHR foundation [1], CEN and ISO have defined “archetype” based approaches to structuring EHR content in a multi-level modelling approach [2] intended to improve semantic interoperability and reuse.

Norway has long time experience of ENV 13606 usage and is currently running at least one archetype project. Sweden has started using EN13606 and openEHR in several national and local pilot eHealth projects. Denmark has through proof-of-concept explored if it nationally can be beneficially to implement archetypes in Danish EHRs. However, currently the approach for interoperating data in Denmark is through SOA-designed web-services.

The idea of layered modelling separating technical infrastructure concerns and clinical concerns is not unique to the “archetype approach” – configurable form/template systems have been available in many EHRs for a long time, but they have not been standardised and interoperable. What is interesting regarding the current situation though is that many Scandinavian and non-Scandinavian eHealth actors are showing converging interests in archetype-based approaches and are seeking national and international collaboration around EHR information structures. Sharing a basic semantic platform provides an opportunity also for academy to reuse and share data, systems, modules, laboratory exercises etc. in research and education. The ambition of the workshop discussion is to encourage Scandinavian cooperation within academia and between academy, healthcare organisations and EHR vendors.

Agenda

1. **Introduction** (5 min)
2. **Brief examples from the Current Scandinavian scene** (40 min)
Norway: Archetype project in Norway. Data export to healthcare quality registries
Sweden: National eHealth-related projects, including healthcare quality register projects. Commercial projects by Cambio Healthcare Systems. Prototyping projects by academy and healthcare.
Denmark: National PatientIndex and Shared Medication Record. National archetype project
3. **The future? Open discussion** (40 min)
Some possible starting questions:
 - Using openEHR for quality registers? Will distributed queries in archetyped EHRs be able to replace registers in the future? Will the expert roles change?
 - How can Scandinavian cooperation in openEHR-related research and education be improved?
 - Can common semantic platform support Scandinavian participatory design of reusable parts for end user solutions?
 - Can different it-architectures and strategies across national borders make Scandinavian collaboration harder? Do Danish SOA approaches and archetype-based approaches address the same or different kinds of problems? Can experiences from one approach be reused in the other?
 - How can CDS applications and distributed care process support benefit from a common semantic platform and shared clinical content?
4. **Summing up the discussion** (5 min)

References

- [1] <http://www.openehr.org/>
- [2] Beale T, Heard S. openEHR Architecture: Architecture Overview. London: 2008. Available from: <http://www.openehr.org/releases/1.0.2/architecture/overview.pdf>

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