# **Meeting/Call Notes**

**Meeting purpose: Community Call for OpenHIE SHR**

**Date: 03-December-2013**

**Attendees:**

* Ryan Crichton
* Carl Fourie
* Linda Taylor
* Hannes Venter
* Kari Schoonbee
* Wayne Naidoo
* Fotina Koutropoulos
* Fernando Freire
* David Aronow
* Mark Tucker
* Derek Ritz
* Suranga K

**Agenda**

* **The architecture of the SHR with HIEOS**
  + [**https://wiki.ohie.org/display/SUB/XDS.b+Interface+Design**](https://wiki.ohie.org/display/SUB/XDS.b+Interface+Design)
* **Resourcing the SHR work**

**Call Recording file # 32810301**

**Meeting Notes:**

Fernando - from Thoughtworks in Joburg office. We are starting to work in area of health info exchange - Chris Ford has been participating in OpenHIE. Would like to see where we can contribute to efforts and leverage off work of community and not reinvent the wheel

RC - Brief overview- have had a look at evaluating various tools - can see documentation around process on our wiki

<https://wiki.ohie.org/display/SUB/Shared+Health+Record+Community>

Currently using OpenMRS for the SHR and standards based interfaces such as IHE profile XDS.b and use of CDA documents for content specification

Looking at utilising HIEOS and combine with OpenMRS to create our SHR

RC - there is a SHR built for Rwanda implementation - under jembi Github repository

For newer work there are other repositories also in Github - link here:

<https://github.com/jembi/>

HV - Have tried to leverage HIEOS project to do XDS.b implementation

Run instance and communicate on backend to store docs in OpenMRS

In OpenMRS will store a blob of document - will try and process discretely as far as possible

With this approach OpenMRS is agnostic

will also require Interoperability Layer

Since we already cater for client validation won’t do in HIEOS

Registry and repositories - could be handled by third party if need be

In most cases will use SHR for both

Also doing some ATNA audit messages

Won’t be storing any docs in HIEOS - create a custom storage implementation class and communicate this to OpenMRS via REST interfaces

DR asked: have you had a chance to do any prototyping? extracting content and putting into OpenMRS?

HV: Not yet

RC: Ability to take CDA document and were able to send to OpenMRS and store some of that data discretely- had some success with this- mapping to more complex data model to what OpenMRS uses is a challenge. Opportunistic at the moment: Where we understand CDA well can process and store this in discrete data model in OpenMRS.

DR: Canonical data model allows map in/out to opportunistic data stores - Mohawk work

MT: CDA doc comes in - pass into semantic graph?

DR: Mapped to internal data model in HIAL and mapped this to db schema of end SHR

Called this RIMish

RC: The IHE CDA docs already are semantically understood

DR: CDA based on templates of data objects in different configurations

RC: XDS.b doesn’t “care” what contents of document is - receive at HIEOS as XDS.b and send to OpenMRS and stored as blob BUT can then also be de-constructed and enable discrete storage. Will also enable decision support and other more advanced functionality

DR: If using Interoperability Layer to do orchestration will need to consider

DR: Re: diagram - processing of inbound doc to HIEOS may be talking to a lab system in same way that we are talking to SHR - So Interoperability Layer and HIEOS are better “pair” than the SHR and HIEOS

RC: So Interoperability Layer has understanding content and routing CDA docs to correct component to process i.e. SHR or lab data to lab system etc.

DR: Yes, supports the care guidelines

RC: Are saying that also, within Interoperability Layer should be able to send XDS.b interactions to the correct service to handle that - maybe SHR or lab or pharmacy repository

Generic CDA will be more difficult to map but more specialised CDA may be easier

DR: A CDA will reference a library of templates that describe content and coding at more granular level

RC: Wanted to ask if Regenstrief Institute has space to take on some of the SHR work while the Jembi team also focuses on Interoperability Layer

MT: Will confirm this with Shaun

If JHS builds HIEOS to point where store blob in obs row - then offer through XDS interface and offer way to routine doc verbatim , plus the machinery for OMRS to offer up synthetic documents via the XDS interface. (The synthetic documents would be “just the extracted discrete data.”)

DR: Can we leverage java version of Everest for this? btw HIEOS and OpenMRS?

RC: Agree, also a MDHT that we could leverage

1st part is the thru and thru

2nd part to store discretely in OpenMRS

DR: Are XDS repositories already - OpenMRS only adds value with discrete data

MT: OpenMRS is the complete set of data - should at least know about all the docs

RC: Already have ability to store unstructured data in OpenMRS

We can talk you through how we think you can take on this piece of work - have a design

***Any other business***

DA: Nothing to add for now

***ACTION ITEM***

Suggest a call to discuss technical aspects asap after checking with Paul and Shaun