

FHIMS Lab Domain:

Order, Perform, Observe, Interpret, Store, Report, Receive

Meeting Minutes (April 4th)

Agenda for the next meeting (April 11th)



Date/time of call:

Monday, March 28ST, 2011, 10-11:30 AM (EST)

Call: 1-800-767-1750, **Passcode:** 84287

Microsoft Office Live Meeting

Leadership team

Kosta Makrodimitris, Galen Mulrooney, Cindy Vinion, Neelima Chennamaraja

Website: <https://www.projects.openhealthtools.org/sf/projects/fhims/>

Attendees

Neelima Chennamaraja, VA

Mike Fitch, DoD

Glenn Hatfield, VA

Kosta Makrodimitris, FDA

Galen Mulrooney, VA

Anne Pollock, CDC

Anand Shukla, VA

Cindy Vinion, NG/CDC

Steve Wagner, ONC

Agenda

- ALL-FHIMS WG Cases, Style, Maps (HL7,HITSP,CLIA,EHR,LOINC), Metrics,15'
- ALL: Milestones-Plans-Risks for modeling & use cases(3rd-4th iteration), 5'
- ALL-Kosta-Cindy S&I LRI communication and subgroups, 5'
- ALL-Kosta-Neelima-Cindy-Ira: Discuss cases and subgroups, Terminology 5'
- ALL-HL7 ballots May-cycle (EHR, clinical, blood, gen testing etc) 5'
- ALL-Galen: Information Modeling (classes, patterns, granularity),30'
- ALL: Lab-OO interfaces, FHIMS domains, NHIN Direct, HIMSS, HL7 Lab-OO,2'

Guiding principal: FHIM Lab-OO will distinguish and categorize lab tests and results, and reports based upon the data needed to:

- (1) **Order** the test,
- (2) **Perform or process** the test,
- (3) **Obtain, interpret and store** data/results of the test,
- (4) **Report and/or release** the (full/partial) results,
- (5) **Receive, interpret and process** the report.

Actors: Hospital, Clinic, Lab types, Public Health Agency (fed-state-local), Patient, Physician, Nurse

Summary of Discussion

Use Cases, Style, and Maps

- Kosta is participating in FHIM Terminology meetings. They are currently working on terminology for the allergy domain. The real issue is to decide the borders and boundaries between the terminology and information modeling. Another relevant task is to decide on the usage of the subclasses, patterns and granularity (allergen, lab categories etc)
- Galen - May want to map FHIM Lab to HITSP C37 specification.
 - Steve - C36 and C37 have the same content; C36 specifies using HL7 v2.5.1 ORU R01 for lab result report and C37 has the same information in a CDA template. Doing the exercise to map is a good idea, but these 2 specifications are substantially the same.
- Kosta - May want to incorporate all of these mappings (HL7, HITSP, CLIA, EHR, LOINC) into the FHIM Lab Domain effort.
 - Cindy - Some of these are sources of information needs such as CLIA. Rather than map to them, we need to use them to identify entities and attributes for the model. Some of these are the business perspective (CLIA); and some are technical (HL7, EHR-S, HITSP, LOINC etc).
 - Galen - Mapping to some of them are completeness checks and are used to ensure that our model has the information needed in an exchange. These "completeness check" mappings to HL7 messages and documents (CDAs) as described by HITSP can help verify that FHIM Lab has the needed data, but they are not detailed enough for transformation.
 - Anne - HITSP C37 has references to CLIA. So, it seems that mapping to CLIA has been done. Anne will provide a report by the end of the month.
 - Kosta will provide a plan and current map of lab FHIM to EHR. Kosta is working with others to extend the mapping in other important areas besides EHR (regulatory, research, public health etc)
 - Neelima and Galen will evaluate and report in April the current status of c36, c37 HL7 2.x coverage
 - Cindy and Anne will prepare a workbook on ambiguous lab definitions.
- Kosta and others prepare a proposal to initiate a Public Health domain. People are welcome to commit their interest

Milestones - Plans - Risks

- Anne - Some clarity on EHR vs ELR is needed especially in view of Public Health reporting. In that case, ELR is reporting to databanks, not to a patient's electronic record.

Modeling

- Cindy - I have a hard time understanding what a Lab Test Promise is. What does that mean from a lab perspective?
 - Galen - it is the accession. Promise is an HL7 v3 term.

- Cindy - Can we call it accession instead of promise; we need terms laboratorians understand.
- Changed LabTestPromise to LabTestAccession to help tie the entity to a business process and an accessioned lab test.
 - Mike - if we make that change, then we need to reevaluate the relationship between test request and accession. There can be multiple requests per accession and multiple accessions per request.
 - Anne - "Accession" as a verb defines what the lab does, and it does not mean the same thing as what was accessioned (a noun). For most results reference range should be referred (a report cannot go out without a reference range).
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RESOURCES

- *EHR-S functional profile* <http://www.hl7.org/ehr/>
- HL7 2.5.1 Implementation Guide: Clinical Genomics; fully LOINC-Qualified Cytogenetic Model, Release 1 - US Realm (1st Comment Only Ballot) – Project Insight ID: 663
<http://www.hl7.org/special/Committees/projman/searchableProjectIndex.cfm?action=edit&ProjectNumber=663>
- EHR-System Public Health Functional Profile, Release 1 – US Realm (1st Informative Ballot) – Project Insight ID: 704
<http://www.hl7.org/special/Committees/projman/searchableProjectIndex.cfm?action=edit&ProjectNumber=704>
- <http://wwwn.cdc.gov/clia/regs/toc.aspx> All of the laboratories (CLIA subcategories) we have listed must meet the requirements specified in: Sec. 493.1230 through 493.1256, Sec. 493.1261, and Sec. Sec. 493.1281 through 493.1299(test request/report CLIA)

ANNOUNCEMENTS

- Public Health Informatics conference this summer in Atlanta: Engaging, Empowering, Evolving...Together <http://www.cdc.gov/phiconference/index.html>
- AMIA Public Health Informatics conference <http://phi2011.amia.org/program>

Agenda Next Call: April 11th 2011

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- ALL-Galen: Information Modeling (classes, patterns, granularity),40'

Action Items

Start Date	Priority	Action Item	Status
11/22/10	Low	7) Wendy-Kosta-Galen-Cindy: Clarify Specimen-Sample filler and placer order nr, test identifier, placer group number and universalServiceIdentifier. The Pathology Lab uses specs from DICOM (Supplement 122, specimen, accession number, etc) in workflow.	In process
11/22/10	Low	8) Kosta-Steve Hufnagel: Services Aware Interoperability Framework and Lab-OO FHIMS relevance (Lab-OO HL7 domain has done some work, Cindy)	In process
11/15/10	High	9) Mike, Cindy, Galen: Finalize definitions for and use of different identifiers & numbers in lab - filler order number, placer order number, group number, test identifier, etc.	In process
11/8/10	Med	10) Need to discuss different scenarios involving different people (ward clerk, nurses, physicians, physician's assistants, interns, etc) and people in a data exchange.	Not started
11/8/10	Low	11) Tim (ICLN) to determine if they would like to participate in FHIMS.	In process
11/1/10	Low	12) Cindy will update sample accessioning scenarios.	In process
11/1/10	Med	13) Anne will write up lab processes to include as additional scenarios.	In process
11/1/10	Low	14) Cindy to identify and contact FBI person from LRN National Meeting for participation in the FHIMS Lab calls when we start doing Chain of Custody, phase 2.	Not started
11/1/10	Low	15) Kosta/Cindy to transform flowchart of outpatient scenario to BPMN. The first BPMN 1.2 draft is done and need to review and add data objects.	In process
10/25/10	Low	16) Keep in touch with Ted Klein and get material and links Update 11/1: Ted waiting for approval to release draft version of volume V	In process
10/25/10	Med	17) Cindy- Contact laboratory experts, LIMS admins, HL7 OO WG Update 11/1: HL7 OO WG information shared with interested participants	In process
11/09/10	Med	18) Kosta to present relevant material for Automated Laboratory Management, FERN, eLEXNET, Sentinel and Medical Countermeasures (FDA/contractors/partners)	In process
11/08/10	Med	19) Galen to update weekly the FHIMS Lab-OO html model and collaborate with Kosta to update about changes from baseline(map .xls-overview)	In process (recurring)
11/17/10	Low	21) Kosta to invite CFSAN statisticians, lab experts to present possible scenario for Lab collaboration with CDC (sample hygiene-diseases)	In process
11/17/10	Low	22) Kosta to prepare sample business case for FDA/ORA ALM lab automation and model (draft). Organize library of BPMN cases, EHR functional mapping	In process
03/4/11	High	28) ALL Business cases diagrams, EHR functional model mapping, robustness model and data exchange elements to standardize	In process
03/18/2011	High	29) Dr. Varma introduced by W.Scharber communicated with Lab-FHIMS to join the domain and learn more about the modeling efforts at ONC/FHA	In process
03/25/2011	High	30) Maps to our classes, domains, agencies(strategy, framework, spreadsheets)	In process
03/25/2011	High	31) Galen will send email to Vijay-Mike to research isUrineScreenPositive" and "sputumScreenResult" attributes	In process
04/04/2011	High	32) Galen-Neelima evaluate and report on HL7 2.X c36, c37 coverage so far	In process
04/04/2011	High	33)Kosta reports on FHIM-EHR mapping and coverage	In process
04/04/2011	High	34) Anne reports on CLIA conformance	In process
04/04/2011	High	35) Cindy-Anne prepares definitions and document on ambiguous terms (ELR, EHR)	In process

Completed/Not Tracked Action Items

Start Date	Priority	Action Item	Status
11/8/10	Low	6) Tim (ICLN) to discuss with DHS the sharing of the Actionable Data Elements spreadsheets with definition.	Completed
11/1/10	Low	5) Cindy to share meeting information for the next meeting when it is sent by the co-chairs (ICLN).	Completed
11/17/10	Low	20) Kosta-Galen-Cindy-Steve-Neelima to prepare and design AND PRESENT a FHIMS-Lab-OO poster accepted for AAAS meeting in DC(Feb-20th 2011)	Completed
2/28/11		25) Kosta - Develop definitions for structured and unstructured data (S& LRI WG)	Completed
3/7/11		26) Nikolay - Share ISDS Syndromic Surveillance Implementation Guide with Lab	Completed
2/28/11	High	27) Develop overview and plan for Lab domain using the Report of 2010 document. Deliver to Steve 3/18/11	Completed
03/4/11	High	24) Kosta-Galen Create space for 6 sub-WG under Lab domain(HITSP-EHR, FERN, Sentinel, cancer-pathology, genetics, lab report exchanges)	Completed
11/17/10	High	23) Kosta-Cindy-Galen-Steve: Plans and documentation of modeling and cases during the last 3 meetings the 2 nd iteration. Schedule the 3 rd iteration Jan-April 2011	Completed

Appendix

By Kosta Makrodimitris (conceptual maps for FHIM, General FHIMS meeting 2011-04-08)

