

**FHIMS Lab-Orders and Observation Domain  
Meeting Minutes (November 29<sup>th</sup>)  
Agenda for the next meeting (December 6<sup>th</sup>)**



**Date/time of call: Friday, November 29<sup>th</sup> , 2010, 10-11:30 AM (EST)  
Call 1-800-767-1750, Passcode 84287  
Microsoft Office Live Meeting**

**Attendees:**

Neelima Chennamaraja, VA  
Mike Fitch, DoD  
Steve Hufnagel, DoD  
Sandy Jones, CDC  
Kosta Makrodimitris, FDA  
Galen Mulrooney, VA  
Cindy Vinion, CDC  
Steve Wagner, FHA

**Leadership team**

Neelima Chennamaraja, Kosta Makrodimitris, Galen Mulrooney, Cindy Vinion

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

**Agenda**

- ALL-Galen: Modeling HITSP C35/C36/C37 constructs and maps HL7 2.5.1.IG OBR/OBX section, 60-70'
- ALL-Kosta-Cindy-Anne: Discuss use case and scenarios(UML,BPMN-Visio/RSA),15-20'
- Kosta: HL7 Normative 2010, RIM , Lab-OO HL7 activities/membership(2-3')
- ALL: Milestones-Plans-Risks for modeling & \ use cases(next iteration) (2-3')

## Summary of Discussion

### Modeling

- Galen opened the discussion with defined the difference between sample and specimen (from 11/22 meeting). It has been decided that samples are collected and specimens are tested.
- Mike mentioned that the definition of sample comes from statistics. The collected sample is considered a statistical random sample of the whole subject (person, animal, area, object, etc).
- The model still has some sample and specimen attributes reversed; Galen will update the model to reflect the updated definitions.
- A container object was added to the model from discussions last week (11/22).
- Cindy asked where the container additives were listed in the model.
- Galen answered that since the containers often arrive with additives already added, container type may be understood to include additives.
- After discussion by the group, it was decided that while many containers do include additives, other containers may be used that do not contain additives, so an additive attribute will be added to the Container object as an optional attribute. In some instances, more than one additive may be added to the container; therefore, the additive attribute may repeat.
- Cindy questioned if we needed to know how much additive is in the container. Mike confirmed that the ratio between the collected sample and the additive is important but that the container with additive size dictates the ratio; the instructions are to fill up the container. It was decided that, for now, we would not include amounts or volume.
- Galen proceeded with modeling using the SPM segment from the HL7 2.x message.
- Galen initially mapped the set id to the id in the sample and specimen objects. Cindy pointed out that the set id in an HL7 message counts the occurrences of the segment in the message or group within the message. It does not need to be modeled. Galen marked the field as "structural" in the excel spreadsheet & mapped the specimen id (SPM.2) to the id attribute in the Specimen object. Cindy mentioned that since the SPM segment can be used for both orders and results, then the SPM segment may describe either a (collected) specimen or a (analyzed) sample; therefore, the fields in the SPM segment should be mapped to attributes in both the Sample and Specimen objects in the model.
- When working with the Parent Sample ID (SPM.3), we identified the need to group or pool specimens or samples. (See below for the HL7 definition of group and pool, from HL7 Table 0369.)
  - Group (where a specimen consists of multiple individual elements that are not individually identified)
  - Pool (aliquots of individual specimens combined to form a single specimen representing all of the components.)
- Cindy mentioned that grouping may be done when collecting a sample - for example random sampling of soil for analysis or sampling products during a manufacturing process. Kosta confirmed that food sampling may also be performed this way.
- Cindy mentioned that specimens may be combined (pooled) to facilitate rapid testing of a large number of samples at one time. This technique may be used in environmental, animal, or food testing.
- Kosta suggested taking into account a broad definition of sample that applies to blood, semen, urine, fluids, and biopsies mainly but it can be any liquid, solid, gas with some certain characteristics.
- Galen accommodated the need for grouping or pooling by adding a relatedSpecimen object to the model. This object still needs some work.
- Galen will be posting the updated model and spreadsheet on OHT for review.

### Other Discussion

- Kosta noted that HHS Innovates is seeking nominations with a closing deadline of Nov 30; he asked if FHIMS Lab-OO wanted to submit any nominations. Steve W suggested finding out what kind of innovations HHS is looking for prior to submitting. <http://www.hhs.gov/open/innovate/index.html>
- Kosta asked about an email from Nikolay Lipskiy (CDC) asking about a vision for FHIMS including sharing value sets (SVS) use cases and modeling efforts. Steve Wagner mentioned that FHIMS does have a vision for having a Terminology domain and he has recently received inquiries from VA and DoD as well as CDC. Terminologists are needed to lead and participate in this domain.
- Kosta and Steve discussed the possibility to relate SAIF <http://hssp.wikispaces.com/PracticalGuide> to Lab-OO modeling efforts

## Action Items

Start Date	Priority	Action Item	Status
11/22/10	Low	7)Wendy-Kosta-Galen: Clarify Specimen-Sample filler and placer order number, test identifier, placer group number and universalServiceIdentifier. The Pathology Laboratory uses specs from DICOM (Supplement 122) to describe the various units (specimen, accession number, etc) in their workflow.	In process
11/22/10	Low	8)Kosta-Steve : Services Aware Interoperability Framework and Lab-OO FHIMS relevance	In process
11/15/10	High	9)Mike, Cindy, Galen: Finalize definitions for and use of different identifiers & numbers in lab domain - filler order number, placer order number, group number, test identifier, etc.	
11/8/10		10) Need to discuss different scenarios involving different people (ward clerk, nurses, physicians, physician's assistants, interns, etc) and who those people would be in a data exchange.	Not started
11/8/10	Low	11)Tim (ICLN) to determine if they would like to participate in FHIMS.	
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		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, slated for phase 2.	Not started
11/1/10	Med	15) Kosta/Cindy to transform flowchart of outpatient scenario to BPMN.	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)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	In process
11/08/10	Low	19)Galen to update weekly the FHIMS Lab-OO model and collaborate with Kosta to update about changes from baseline(map .xls-overview)	In process (recurring)
11/17/10	Low	20)Kosta-Galen-Cindy-Steve-Neelima to prepare and design a FHIMS-Lab-OO poster accepted for AAAS meeting in DC(Feb-20th 2011)	In process
11/17/10	Low	21)Kosta to invite CFSAN statisticians to present possible scenario for lab collaboration with CDC (sample hygiene-diseases)	In process
11/17/10	Low	22)Kosta to prepare sample use case for FDA/ORL lab automation and model in BPMN(draft completed). Present and organize library of BPMN cases.	In process

## Completed/Not Tracked Action Items

Start Date	Priority	Action Item	Status
11/8/10		6)Tim (ICLN) to discuss with DHS the sharing of the Actionable Data Elements spreadsheets with definition.	Not tracked
11/1/10		5) Cindy to share meeting information for the next meeting when it is sent by the co-chairs.	Completed
11/1/10		4) Cindy to send flow chart PDF to Anne Pollock	Completed
10/25/10	Low	3) Kosta-Galen will organize the OpenHealth shared project space for Lab-OO Update 11/1: Steve working on organizing the OpenHealth tools project space	Completed
10/25/10	High	2) Prepare for FHA leadership meeting to present FHIMS domains process (Steve-Sean presented,Nov-2010)	Completed
10/25/10	Low	1) Initiate a dictionary of terms and definitions for Lab (Cindy, draft)	Completed

## **Agenda Next Call: December 6, 2010**(10-11:30am)

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