FHIMS WG Terminology Modeling Sub-Project Meeting

Summary of Call

Date/time of call: Friday, September 20, 2013, 2:30 - 4:30 PM

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| **Attendees** | | | |
| Jay Lyle - FHA PMO |  | Robert Crawford – VA |  |
| Rob McClure - VA/VHA |  | LuAnne Barron |  |
| Bill Hess – FDA |  | John Carter |  |
| Galen Mulrooney - VA/VHA |  | Riki Merrick |  |
| Susan Matney – 3M |  | Kevin Coonan |  |
| Jim Case – NLM |  | Holly Miller – VA |  |
| Steve Wagner – FHA |  | Pam Banning |  |
| David Bass – VA |  | Glen Janzen – IHS |  |
| Mark Roche |  | Steve Hufnagel – DoD |  |
| Sean Muir – VA |  | Charles |  |
| Jerry Sable – CDC |  | Catherine Hoang |  |
| Ioana Singureanu |  | Charles Gabriel |  |
| Ben Bovee – DoD (iEHR) |  | Greg Rehwoldt – IPO |  |
| Jeff Jacobs – IPO |  | Coco Tsai – FDA |  |
| Eric Rothschild – IPO |  | Frank Switzer – FDA |  |
| Dornn Harris – IPO |  | Steve Emrick – NLM |  |
| Caitlin Ryan |  | Iona C. |  |

Agenda

Published Principles (FHIM Collabnet Wiki) Comments in blue

1. FHIM values sets shall be implementable.
   1. Publication shall be extensional. Intensional definitions may be used for authoring.
   2. They shall be provided to implementers via an open and accessible interface.
2. FHIM values sets shall follow standards where possible.
   1. The authors shall document preferred systems for domains, starting with HITSP C-80.
   2. Clinical concepts shall be taken from SNOMED CT, or a SNOMED CT extension.
      1. Where we modify an existing value set that does not use SCT, we will migrate the included contents into SCT.
3. FHIM values sets shall be versioned.
   1. Following PHIN VADS practice, a value set shall have a single OID, and versions shall have serial numbers.
      1. Proposed scheme: use the OID for dynamic assignment, and append the version number to the OID for static assignment. This may work internally, but it may not be consistent with CTS2.
      2. How does the “expansion identifier” affect this approach? The CDA date-bound approach?
4. FHIM may use externally defined value sets, but they will be managed as external value sets.
   1. Sets maintained by other organizations may meet our requirements. We may choose to bind to these value sets statically, in order to avoid uncontrolled change, or dynamically, in order to leave the burden of maintenance to the external group.
   2. Externally maintained sets that partially meet our requirements may be leveraged in the authoring process, but the resulting set is a FHIM value set. No linkage to its source is required, except as a historical record of the authoring process.
   3. Externally maintained value sets must be published in PHIN VADS.
      1. This should include VSAC; might it also include other services (USHIK, NCI), or not?
5. Completeness
   1. Some value sets may not be complete. These will be useful as examples, or as “starter sets.” They will be clearly identified.
      1. And tagged “CWE”
6. Relationships
   1. Properties may require different subsets of the value domain in different use cases. If there are no structural differences in a property in the different cases, the information model will represent a single property, which will have a single value set. This value set will contain values for all contexts or use cases.
      1. There may be cases (e.g., microbiology labs requiring "microorganisms" not "species") where a new class is desirable despite a lack of structural difference.
      2. For supersets, subsequent modeling efforts (e.g., messaging guides) may further constrain these value sets.
      3. We will investigate the possibility of subsetting value sets in an MDHT formalism that recognizes context or use.
         1. Candidate: concept domains
         2. Candidate: simply allowing additional bindings, checking for subsumption at runtime
   2. Other relationships (other than subsets) are delegated to the source system.
7. Stewardship
   1. As steward, FHIM will prepend “FHA,” for “Federal Health Architecture,” to PHIN VADS “code” property for a value set
   2. FHIM value sets will be given OIDs from the FHA root.
8. Backward compatibility
   1. Backward compatibility is a valuable property, but the FHIM is modeling the future state, and will not be constrained to current patterns where those patterns don’t meet requirements.
   2. Where backward compatibility can be achieved without compromising other design principles, it will be supported.
9. Mixing systems
   1. A value set shall draw concepts from a single code system.
10. Null values
    1. Null values are values from the Null values system, and will not be included as proper values in FHIM value sets.
    2. Null values will not include "Other," which will be supported by extensibility.
       1. Not sure why we said this or what we meant
    3. "Nullable" is a property of the information model, to be captured during IM analysis.
11. New values
    1. FHIMS will use an FHA Extension of SCT as the preferred venue for publishing new clinical concept codes, where the domain is appropriate.
12. Status
    1. Unless otherwise indicated, status shall follow the HL7 V3 state machine. Refinements may be supported in a domain-appropriate status modifier.
13. Extensibility
    1. Extensibility is a model binding property, not a value set property.
    2. We prefer to model the value sets broadly, and have implementers map to the standards, than to allow locally defined codes. OK, in line with yesterday’s discussion of CNE.
14. Value set names
    1. Value set names shall represent the semantics of their content. Names of applications or programs will only be used when the rationale for selection is unknown.
    2. When a FHIM value set is based on another value set, the existing name will be preserved if it doesn’t break other policies. A little unclear: meaning within the new FHIM name?
15. Dates (not actually terminology)
    1. We go beyond the HITSP recommendation and adopt the ISO 8061 specification, recording dates as text strings of the form "YYYY-MM-DDThhmmss,ff” (see http://en.wikipedia.org/wiki/ISO\_8601 for more information).
16. Where a property may vary enough to need different value sets in different circumstances, but not so much as to merit division into separate properties, that property shall be bound to a Grouping Value Set, which shall identify the value sets available for use in use cases.

**Schedule of Future Meetings**

1) The weekly general Information Modeling (IM) project call is held each Friday from 2:30 to 4:30 PM Eastern Time.

Information for participating in the calls:

Name: FHIMS WG Information Modeling Project Call

Recurring Weekly Call Every Friday

Time of Call: 2:30 to 4:30 PM Eastern Time

Dial-in Information: 1 (773) 897-3018, Access Code: 585-151-437

Web Meeting URL: <https://global.gotomeeti​ng.com/meeting/join/5851​51437>

2) The weekly Terminology Information modeling calls are held on Wednesdays from 2-3:30 PM Eastern Time.

Information for participating in the calls:

Name: FHIMS WG Information Modeling Project Call

Recurring Weekly Call Every Wednesday

Time of Call: 2:00 to 3:30 PM Eastern Time

Dial-in Information: 1 1 (773) 945-1031 Access Code: 849-124-653

Web Meeting URL: https://global.gotomeeti​ng.com/join/849124653

**Action Items**

| Item Description | Responsible Individual | Due Date |
| --- | --- | --- |
| Assess how closely we can align with APHL work   * We agree on current state; happy to work with/wait on abnormality & device | Jay | 4/11 |
| Acquire sample messages   * In process: values, not messages, which have not been scrubbed | Jay | 4/11 |