**Federal Health Information Model (FHIM) Update**

*Submitted by Steve Wagner, Health Information Modeling Workgroup*

FHIM modeling is currently supporting two S&I Framework initiatives - Structured Data Capture (SDC) and Data Access Framework (DAF). Initial modeling of information to support the DAF initiative is complete. Modeling to support the SDC initiative is underway.

In addition to modeling support for the aforementioned framework initiatives, FHIM modeling is also supporting FHA initiatives led by the Patient Consent & Authorization Workgroup. This area has already been modeled in the FHIM therefore; further modeling in this area will only involve updates to the FHIM.

FHIM information modeling on the Adverse Event Reporting information domain is also underway. Terminology modeling and value set definition work is being accomplished for this information domain.

In addition, work continues on fully integrating the FHIM into the S&I Framework process. To this end, the FHIM has been mapped to the most recent version of a comprehensive spreadsheet of data elements supporting all S&I Framework initiatives as of March 2012. Two more mapping steps are underway. The first will update the comprehensive mapping spreadsheet to include the most recent data requirements for all ongoing S&I Framework initiatives. The second will add the data elements for all inactive S&I Framework initiatives. Once all mapping steps are complete, S&I Framework initiatives can begin modeling their information in the FHIM early in the S&I Framework process (e.g., use case analysis and development phases).

*FHIM Administrative Activities*

The FHIM team has distributed four FHIM information domains to the FHA federal partners for review, comment and validation. Feedback has been received and processed. Additional information domains are being prepared for distribution.

The team has also completed work on developing/updating the process and style guide to support the model driven architecture (MDA) approach to generating implementation standards. There are now process guides for information modeling, terminology modeling, MDA implementation modeling and a style guide for information modeling.

This work has allowed the FHIM to meet its vision, as described in the original FHA project charter, since the associated terminologies, value sets and model driven health tools (MDHT) have been integrated into a comprehensive MDA approach to generating implementation standards/guides. These standards/guides are ready for use by the federal partners, and can be leveraged by and fully integrated into the S&I Framework process.

This MDA approach has demonstrated that it can generate implementation standards/guide in two platform specific formats – Clinical Document Architecture and the NIEM (National Information Exchange Model). This approach is also capable of supporting other formats such as HL7 FHIR, HL7 v2 and HL7 v3 messages.

Further work on the FHIM and the MDA approach is continuing, supported by the federal partners and the Office of the National Coordinator for Health IT.

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