



“ they seem to have the smartest tech around. ”

- Nat Wong, Managing Director TotalCare

Standards-based Solutions

Medical-Objects (MO) has an active standards-based research and development program. It is represented at HL7 and Standards Australia nationally and HL7 internationally where it has responsibility for V 1.1 of the decision support language GELLO. Other standards, namely HL7 V2, SNOMED-CT, CEN 13606 (Archetypes) and the CCR/CCD (health record summaries), are used as platforms for the various editors and development tools that Medical-Objects uses and shares with others for refinement.

Integrated Model-derived Solutions

With Medical-Objects software, it is possible to develop a complete suite of integrated model-derived functionality according to the following diagram:

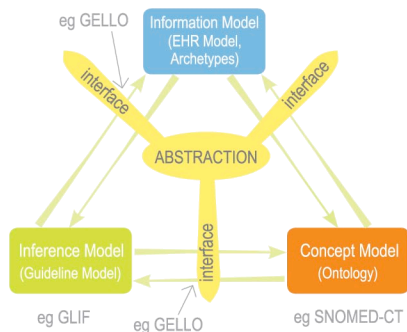


Diagram modified from Alan Rector's "Model of models" found at: Rector A, Taweel A, Rogers J, (2004) Models and Inference methods for Clinical Systems: A Principled Approach, Proceedings of MedInfo 2004

GELLO - For Decision Support

GELLO is a robust typed object-oriented Clinical Decision Support language. It contains SNOMED-CT classes and methods to really leverage the knowledge in the concept model. It is also used on the

information model side to enable electronic decisions that derive from real-time HL7 data, such as pathology results as well as archetyped data or from a virtual medical record (vMR). Medical-Objects is currently working on a Clinical Document Architecture (CDA) facility in this regard. Medical-Objects also uses GELLO to make 'smarter' archetypes. The editor for this is called MOWGLI, and this is embedded in our Guideline Interchange Format (GLIF) editor as well. The GLIF Editor is available as a standalone application and is included in later versions of Medical-Objects Explorer.

Archetypes for Structure

The Medical-Objects Template Editor is used to create, import and edit CEN 13606 standard archetypes. It can open and edit openEHR

archetypes. It has a preview pane for a user view, HTML output and input capability, HL7 export and preview, data typing, terminology mapping (including terminology constraints and support for SNOMED-CT Concept Model derived expressions), testing capability with import for HL7 data files and a GELLO editor for various node attributes such as 'Visibility', 'Reference Ranges' and 'Calculate'.

In Use today

The GELLO editor, the GLIF editor and the Template editor are used in everyday Medical-Objects based systems, including a pathology laboratory that runs solely on Medical-Objects software. Being standards-based and modular in design means you can start to use these essential components for health informatics applications, and integrate with your applications and/or build new ones with help from Medical-Objects documentation that makes use of worked examples.