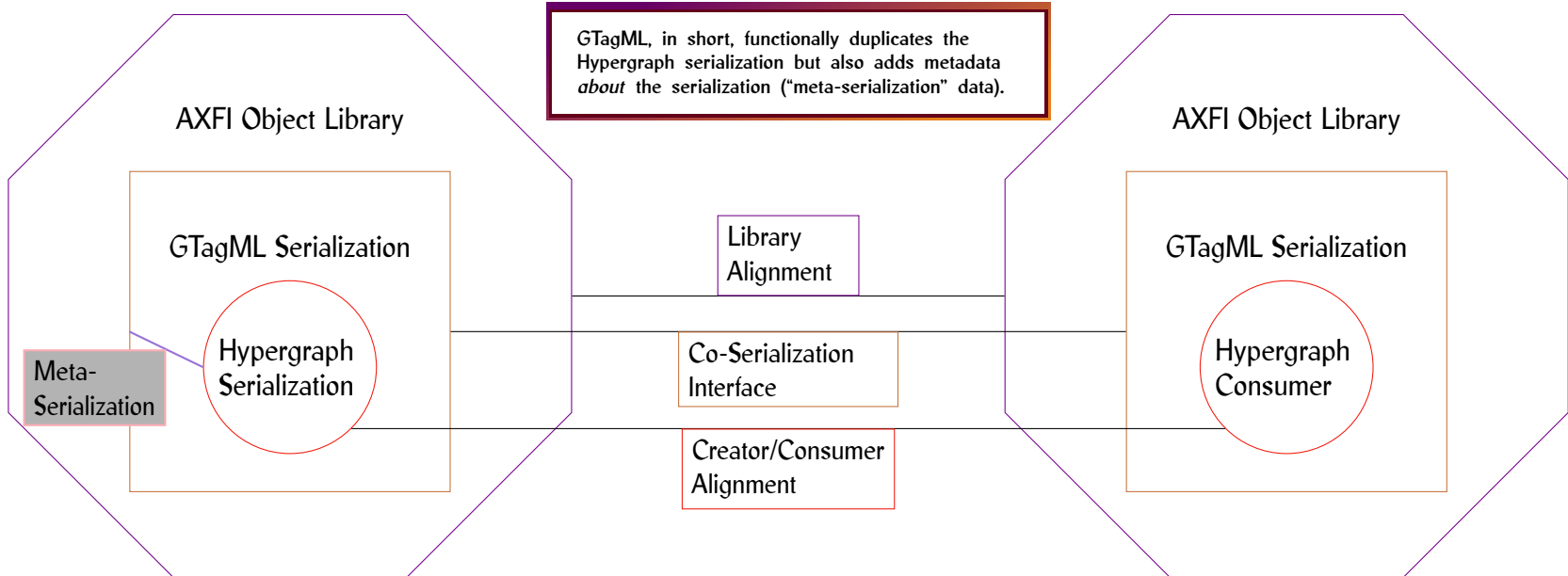


GTagML: “Grounded” TagML

Creator/Consumer Alignment is enforced first by an object-sharing protocol using Hypergraph-based serialization and then by GTagML serialization.

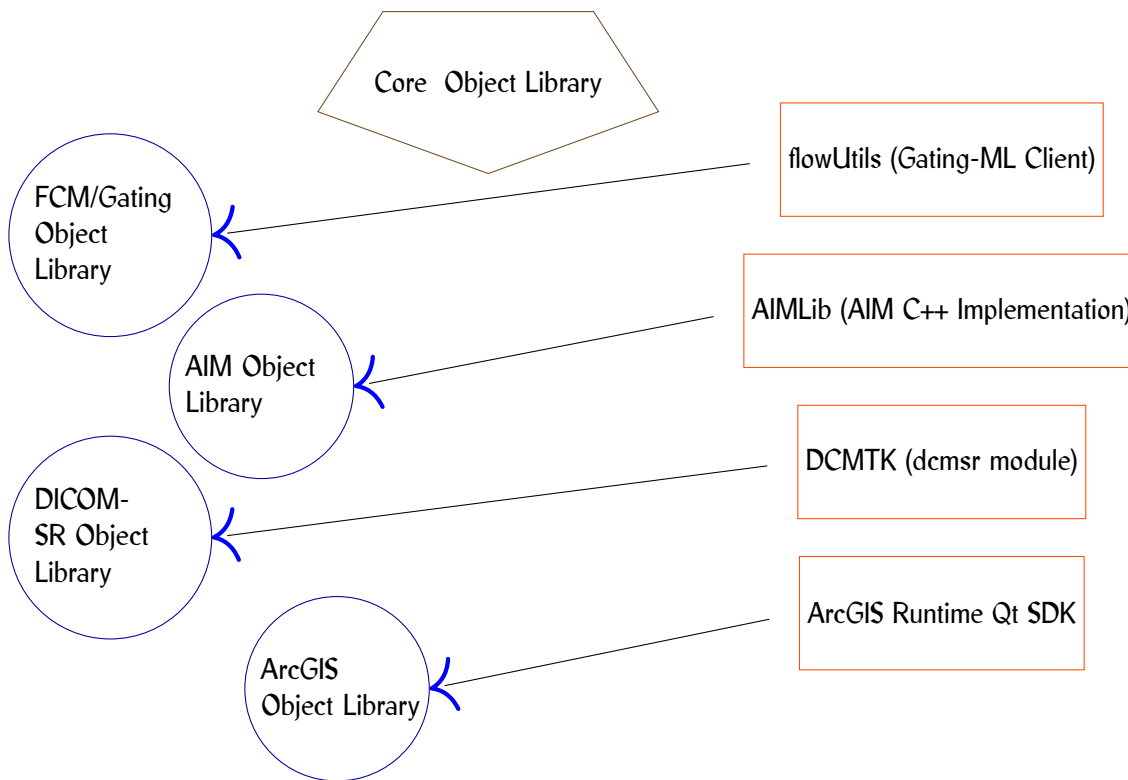
GTagML includes metadata identifying how GTagML nodes relate to data types, object instances, and procedures implemented in the Object Libraries.

GTagML, in short, functionally duplicates the Hypergraph serialization but also adds metadata *about* the serialization (“meta-serialization” data).



AXFI Extended Object Libraries

AXFI extensions for domains such as Flow Cytometry, DICOM, and Geographic Information Systems leverage the GTagML/Hypergraph model while functionally emulating existing “reference” libraries.



For AXFI extensions, establish a functional equivalence between Hypergraph serialization, GTagML serialization, and Reference Implementations for markup formats providing the extended semantics being added to AXFI.

AXFI Host Libraries and Application Integration

Complementary to AXFI Object Libraries, AXFI Host Libraries bridge Object Libraries with the applications where they are embedded. The Host Library therefore shares computational resources with both the Co-Serialization Interface and the host GUI code.

The screenshot displays the AXFI application interface. At the top, there are buttons for 'Patient Info Dialog', 'Diagnostic Report', 'Open Folder', 'Open Image', and 'Screenshot'. Below these, a 'View' panel on the left shows a vertical stack of image thumbnails, with the bottom one highlighted by a green oval. The main area shows a large medical image of a cell with a red arrow pointing to a specific feature. On the right, a sidebar contains sections for 'Arrows', 'Comments', 'Lists', and 'Arcs'. At the bottom, there are controls for 'Silhouette Zoom', 'Image Transforms' (Pan, Zoom, Slide), and 'Annotations Transforms' (Pan, Rotate, Zoom). A 'Clear' button is also present.

The Host Library adds rigor to the annotation framework by systemitizing HCI protocols and the host Event Model; these models complement the annotation data provided by the Object Library.

Imaging Events

Annotation Events