

*open*EHR Development Tools

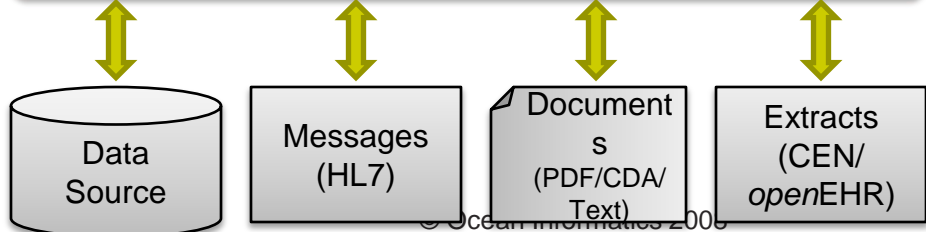
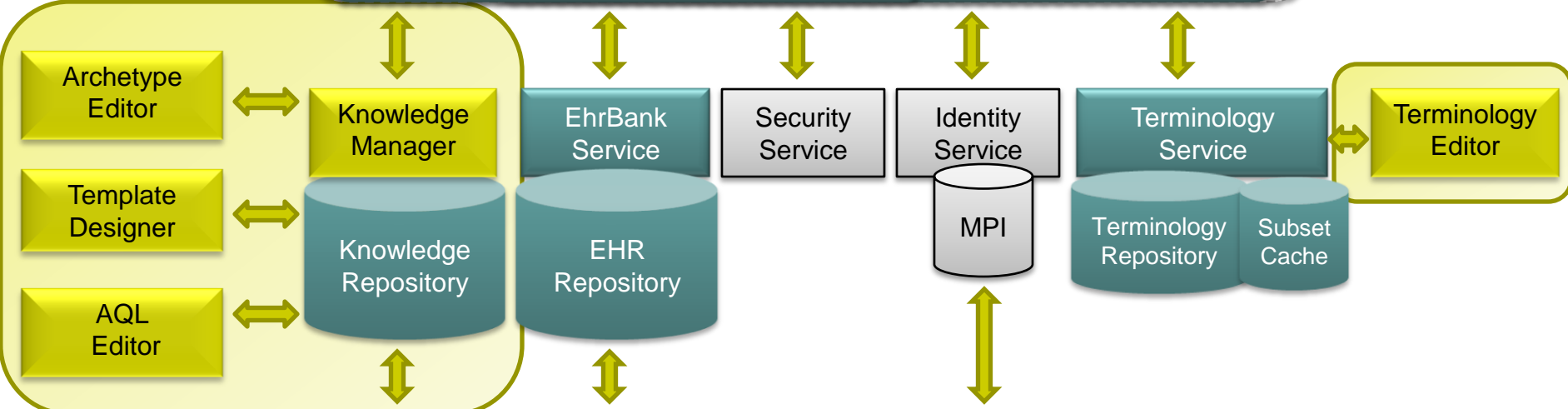
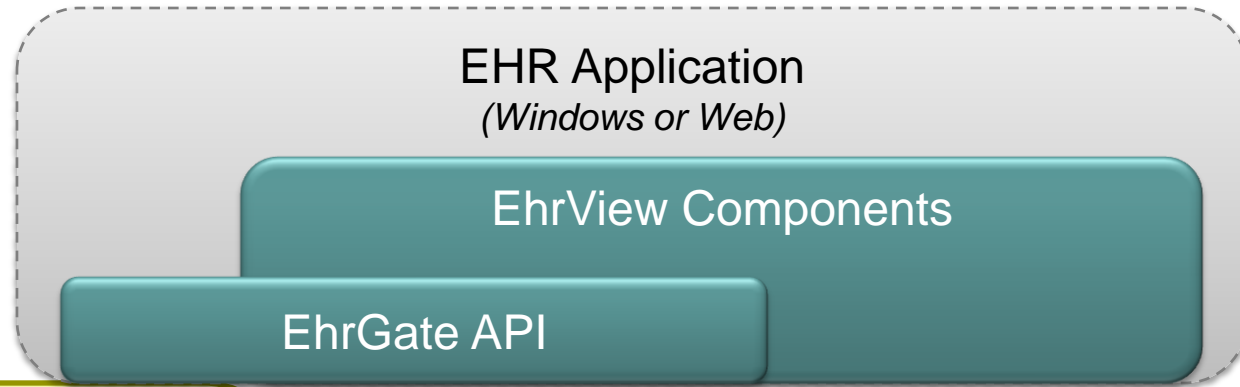


Sam Heard



openEHR.org

Archetype enabled EHR



Archetype Editor

Ocean Editor

- .Net
- Open source
- Uses reference parser

Linkoping Univ. Editor

- Java
- Open source
- Uses Java parser

Alignment:

- Documentation
XML + XSLT → HTML
- Java parser used in *openEHR* Knowledge Manager
- Reference parser used to validate *openEHR* KM

Archetype Editor

Does

- Create archetypes
- Edit archetypes
- Translate archetypes
- Binds terminology
- Display in different forms
- Access Knowledge Manager
- Add metadata to archetype
- Basic data entry view
- Specialises archetype

Does not

- Tailor for local use
- Contain normal ranges
- Mimic a specific form in use
- Provide business process for data entry

But could:

- Provide a regular expression generator
- Author invariants or rules

Knowledge Manager

- Java based digital asset management (licenced)
- *openEHR* layer on top
- Open architecture with open source plug-ins
- Ontology using Protégé engine

Knowledge Manager

- Provides asset management
- Allows controlled group authoring and review
- Provides an author portal
- Formalises workflow
- Allows a hierarchy of repositories
- Provides an ontology for classification
- Provides a web service interface for authors
- Controls the release of a set of archetypes
- Can be used for Queries, subsets, templates

Template Designer

Aggregates archetypes for use:

- At data entry
- For form design
- To generate a data schema
- For integration of existing data

Further constrains the archetypes to meet local needs:

- Dropping unwanted optional features
- Making mandatory optional features that are considered essential
- Narrowing lists
- Adding terminology subsets

Terminology Subset Tool

Subsets can be:

- Be created without technical knowledge
- Consist of terms from any terminology included in the repository
- Browsed over the web

Subsets are:

- Defined intentionally, through a query
- Comparable in relation to different releases of the terminology
- Exportable as flat files