

NDL-OWL in ORCA

- New code to be showcased at GEC7
 - NDL-OWL domain abstraction
 - NDL-OWL ID path computation
 - Support for stitching
- RDF tools used by ORCA team
 - Protégé
 - Jena toolkit
 - MIT CSAIL Tabulator



RDF/OWL

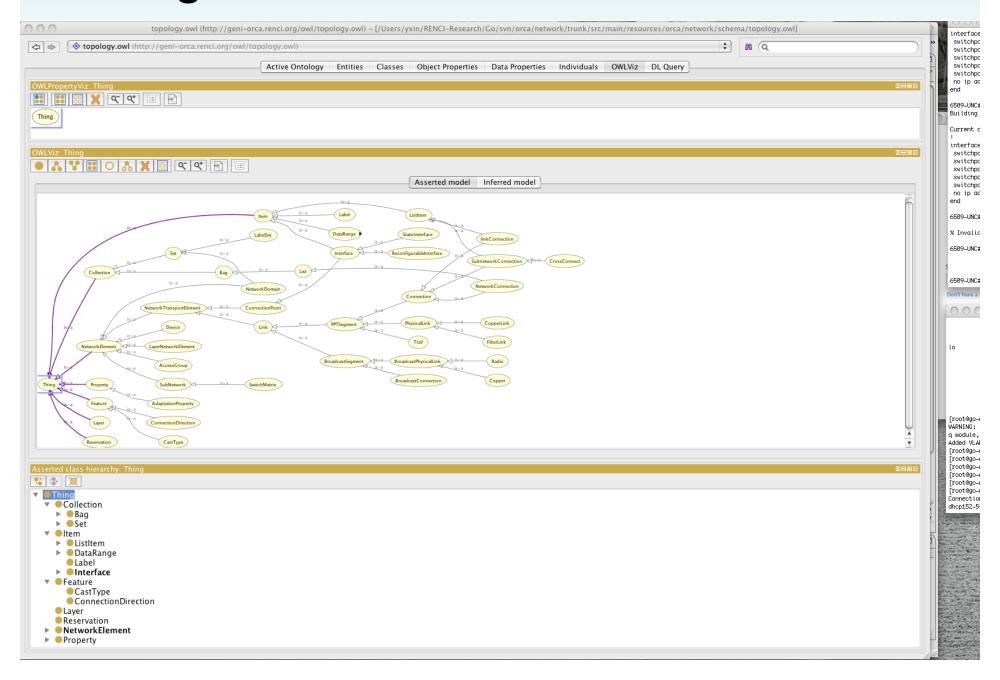
- Semantically rich
 - Easy to link distributed RDF files
 - Inference capabilities
- Easy to implement and maintain the schema/ data models
 - Protégé toolkit
- Easy to build applications
 - Jena API and others
 - RDF/RDFS/OWL Parsing
 - Application algorithm = manipulating in-memory model (graph)
 - SPARQL query API
 - Plug-in inference



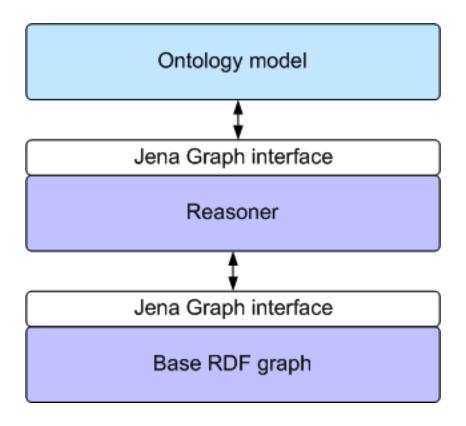
NDL-OWL based applications demo

- Intra-domain cross-layer path provisioning
 - Shortest Path computation
 - New client interface and label assignment
 - Cross Connect
 - Virtual connection
- Inter-domain path provisioning (Same layer)
 - Domain abstraction
 - Inter-domain path computation
 - Label assignment dependency tree (via Label translation)
- Virtual topology embedding (stitching support)

Protege

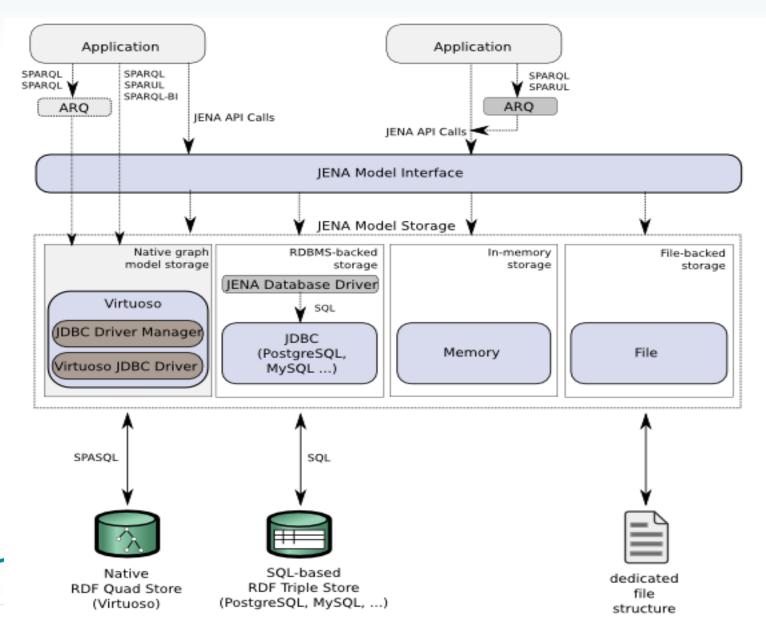


JENA API (1)



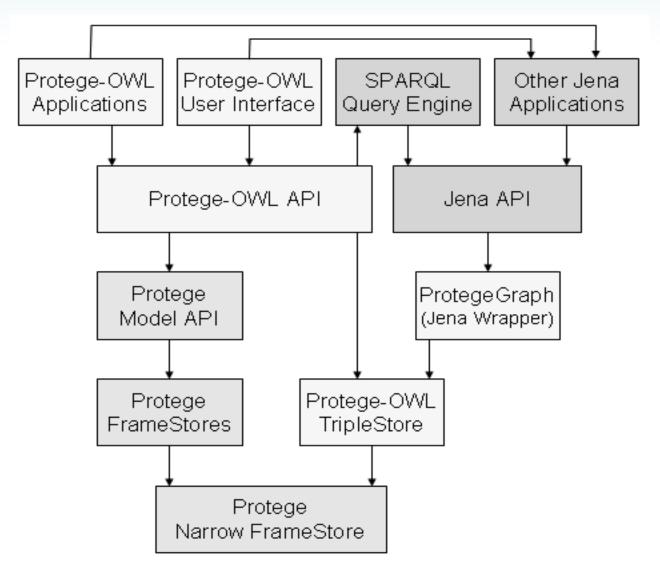


JENA API (2)





Protégé + JENA API (3)





MIT CSAIL Tabulator

- Tabulator is a generic data browser and editor
- Provides a way to browse RDF data on the web
- Also a toolkit
 - JavaScript
 - Provides modules for
 - Loading RDF models
 - Querying RDF using SPARQL
 - Displaying tabulated and other views of query results
- http://www.w3.org/2005/ajar/tab

