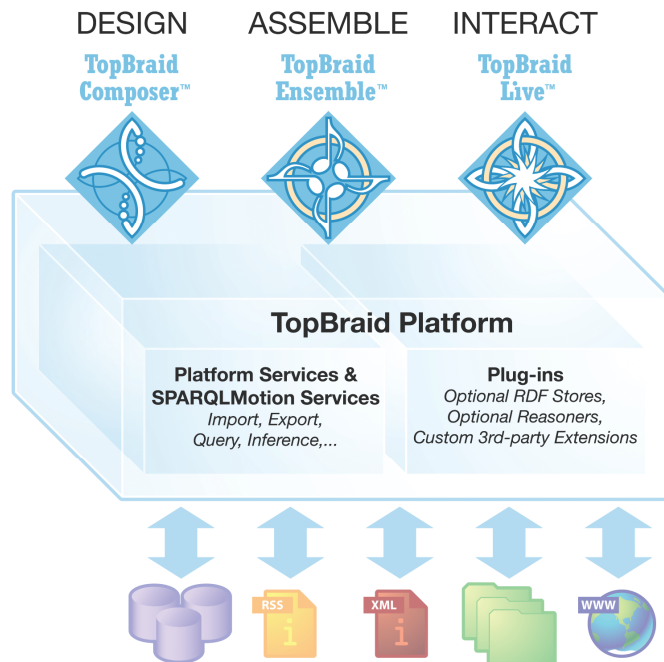# TopBraid Composer™
is a Semantic Web modeling and application development environment

Part of TopBraid Suite™ – integrated semantic solution products.

DESIGN   ASSEMBLE   INTERACT

TopBraid Composer™   **TopBraid Ensemble™**   **TopBraid Live™**

TopBraid Platform

Platform Services & SPARQLMotion Services
Import, Export, Query, Inference,...

Plug-ins
Optional RDF Stores, Optional Reasoners, Custom 3rd-party Extensions

Key Features Include:

- Standards-based, syntax directed development of RDF/S and OWL ontologies, SPARQL queries and Semantic Web rules

- Import/export-from / to a variety of data formats including RDBs, XML and Excel

- Visualization and diagramming tools including visual construction of queries and auto-generation of SPARQL

- Triggered execution of SPARQL-based business rules and constraint checking using SPIN (SPARQL Inferencing Notation)

- Seamless integration with inference engines including OWLIM, Pellet, Jena Rules, Oracle Rules and SPARQL Rules

- Choice of leading RDF stores

- Support for re-factoring and model evolution

- Usability, extensibility and robustness of its underlying technologies – Eclipse and Jena

TopBraid Suite™ Products

- **TopBraid Composer™** – Semantic Modeling and Application Development Tool
- TopBraid Composer Maestro Edition™ – Composer plus Extended Capabilities
- TopBraid Live™ – Enterprise Platform for Semantic Web Applications
- TopBraid Ensemble™ – Semantic Web Application Assembly Toolkit

Benefits:

- Close integration with traditional programming tools
- Scales to support large initiatives through management of multiple projects and multiple ontologies
- Re-use of legacy models including XML, UML, spreadsheets and database schema imports
- Provides full development lifecycle support
- Enables business stakeholders review
- Supports flexible inferencing strategies to match problem characteristics
- Customizable and extensible

TopQuadrant™

TopQuadrant is a premier semantic web solutions company with offices in Alexandria, VA; at NASA Research Park, CA, and an affiliate in Seoul, South Korea. Please contact us at:

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For more information, visit:
http://www.topquadrant.com/products/TB_Composer.html
More detail on installation and a full featured 30 evaluation copy for free download can be found at http://www.topquadrant.com/products/TB_download.html

Contact us at (703) 299-9330 or sales@topquadrant.com for questions or requests.

TopBraid Composer™ offers comprehensive life cycle support for development of ontology-based solutions.
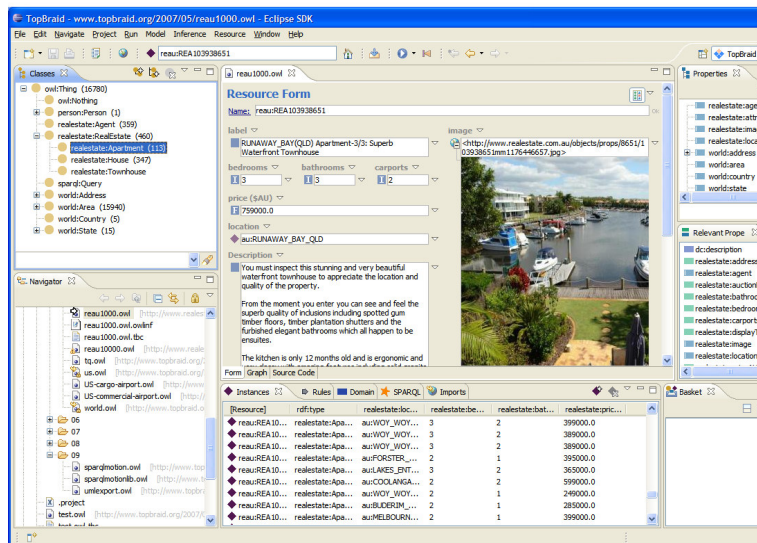
TopBraid Composer™

Creation of Semantic Web ontologies

- Full support for RDFS and OWL
- Configurable as RDFS-only and/or OWL modeling environment
- Intuitive drag and drop interface
- Syntax directed editing and smart auto-completion
- Form-based editing
- Source code editing in a variety of serialization formats: XML/RDF, N3, N-Triple and Turtle
- Optimized for ease of working with multiple ontologies
- Visualization and diagramming: UML-like graphical notations, as well as graph visualization and editing
- Import of legacy models: UML, XML schemas, RDBMS schemas
- Collaboration between teams of modelers through CVS and SVN check-in/check-out and model locking
- Multi-user mode with the database backend
- Integration of Google search and Wikipedia search
- Support for custom XML datatypes
- Ability to see 'inherited' class properties

Development of Semantic Web Applications

- Real time queries of RDBMS
- Libraries of SPARQL queries and Rules
- Configuration of reasoning engines
- Integration with the software development IDE
- Integration with leading RDF Stores such as Oracle 11G, Franz AllegroGraph and Sesame 1.x and 2.x
- Connection and import of RSS/Atom feeds, RDFa data sources and SPARQL endpoints
- RDFa WYSIWYG Editor

Population

- Customizable forms for instance entry
- Spreadsheet import
- Import of RDBMS data
- Import of XML data and/or schema
- Import of RSS feeds

Deployment

- Ontologies developed in TopBraid Composer can be deployed on TopBraid Live ™ or using any RDFS and/or OWL compliant platform
- TopBraid Composer offers published APIs for custom extensions and building of Eclipse-based semantic applications

A view of TopBraid Composer being used to connect a real estate ontology and other RDF resources with geospatial ontologies.

Review, Validation and Testing

- SPARQL (SPIN), SWRL and Jena rules
- SPARQL queries
- SPARQL-based constraints checking
- Integrated OWL DL inference engines for classification and consistency checking
- Support for debugging of inferences with explanations
- Generation of documentation for user reviews
- Tree views depicting any relationships (not just subclasses)

Evolution and Maintenance

- Re-factoring of classes
- Moving classes, properties and instances between models
- Synchronization of name changes across multiple imported models
- Cloning of classes, properties and instances
- Converting inferred statements into assertions
- Complete logs of all changes
- Ability to roll-back changes
- Ability to find references to a resource across all statements in the model
- Conversion between RDFS and OWL
- Spreadsheet-like forms for managing annotations across all model elements

Operating Systems Supported

TopBraid Composer runs on any operating system that supports Java and Eclipse (tested on Windows, Linux and Mac OS). For more detailed information visit:
http://www.topquadrant.com/products/supportedConfigs.html