

OntoBroker – professional ontology reasoner and repository

OntoBroker 5.1 product line

- ... industry proven
- ... mature
- ... standards based
- ... highly scalable

Standards Support

The standard query language SPARQL is supported by all OntoBroker variants.

| | RDF(S) | OWL | F-Logic |
|--------------------------|--------|-----|---------|
| OntoBroker® Enterprise | X | X | X |
| OntoBroker® Professional | X | – | X |
| OntoBroker® OWL | X | X | – |
| OntoBroker® RDF | X | – | – |

Ontology storage models

RAM, embedded H2 database, Oracle 11g

Query and management interfaces

Java API, Web Service Interface, Collaboration Server API, DIG interface

Extensibility (F-Logic)

- **Built-ins:** functional extensions
- **Connectors:** access to external data sources

Information Integration (F-Logic)

- Web Services connector
- Database connectors available for IBM DB2 8 / 9.1, Microsoft SQL Server 2000 / 2005, Oracle 10g, 11g, MySQL and others
- additional connectors can be developed in Java for arbitrary data sources

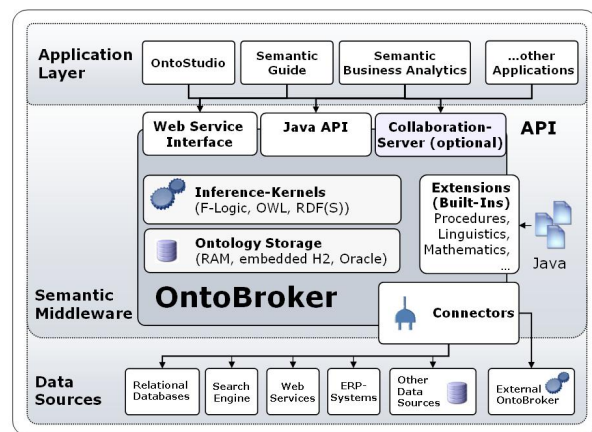
Special Features

- Smooth transformation between languages
- explanation capabilities (F-Logic)
- support for multi-core, multi-cpu high performance architectures
- SOA-ready
- optional Collaboration-Server extension

Nearly 10 years of industrial deployment make OntoBroker the world-wide leading and most mature commercial ontology reasoner and repository. Based on its comprehensive coverage of Semantic Web standards, its performance and scalability oriented design and its open architecture OntoBroker is the ideal basis for any semantic solution or infrastructure.

Basic functionality

Ontologies can be loaded into the OntoBroker ontology storage. This can be configured to be either RAM-based or persistent. Stored ontologies can be manipulated using the different query and management interfaces. As a query is sent to OntoBroker, it derives all answers by evaluating the formal semantics of the ontologies (reasoning), taking into account all data from connected information sources. When querying an F-Logic ontology OntoBroker can furthermore give explanations for query results.



OntoBroker architecture

Comprehensive semantic infrastructure

For different purposes, different ontology languages are best suited. The OntoBroker product line offers the best of its class solution for each of the Semantic Web standard languages: RDF, RDFS, OWL and the industry standard F-Logic. For all language variants the query and management interfaces are the same allowing for a smooth migration if requested.

No matter what the current requirements are or how they will change in the future, the OntoBroker product line provides the guarantee to invest in the right semantic infrastructure.

Performance and scalability

Once more, OntoBroker performance has been improved. OntoBroker 5.1 now is multi-core enabled allowing OntoBroker to reduce query-answering time by leveraging the advantages of modern CPU-architectures (from common dual- and quad-core CPUs up to very-high-performance architectures).