

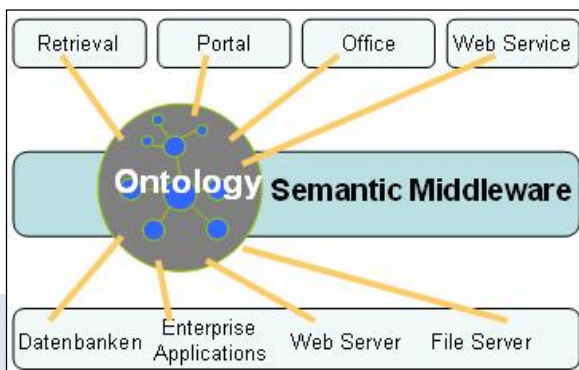
Smarter Knowledge Integration

Flexible organizational structures premise an IT-infrastructure, that enables a fast, reliable and smooth flow of information. But the continuously growing flood of information makes the efficient integration of all relevant sources more and more difficult and cumbersome. Information is stored on various systems and in different data formats. Semantic technologies are the path out of that data-jungle. They enable man and machine to seamlessly integrate smart knowledge from heterogeneous data sources, suitable for their context.

Semantic middleware resolves complexity

One of the fundamental problems of integration tasks is that commonly every single application and every single data source has to be connected with each other in a point-to-point-connection. . By the use of a semantic layer the underlying complexity and number of interfaces, that are costly to maintain, can be dramatically reduced.

A simple mapping of the required data source on the semantic knowledge model (ontology) integrates the available knowledge for all future needs.



Smart integration by meaning

Central point of semantic applications are the meanings of information. Ontologies explicitly define the utilization of terms, their attributes and interrelations with other terms. Apart from a simplified mapping of heterogeneous structures, conflicts of natural speech and data structure can be resolved by semantic integration of knowledge

bases.. Based on canonical relations rigid structures will be replaced by logical pattern of thought and human associativity. This establishes a new dimension of communication between applications and eases the user access.

Modeling instead of programming

An inherent advantage in the use of ontologies for the definition of data structures is the modeling ability. On an abstract level, dynamic adaptations, integration of new data sources or the mapping of heterogeneous structures can be achieved definitely more flexible and comfortable than by pure programming. Complex relations and coherences can be expressed by simple rules.

Smart technologies enable a variety of unimagined possibilities.

Basis for the Smarter Knowledge Suite from ontoprise are semantic technologies, that integrate all company information from available heterogeneous databases and enable intelligent access to them. By the use of knowledge models the meaning of information comes to the fore. The utilization of Smarter Knowledge enables the easy integration, the smart access and retrieval of knowledge as well as the beneficial maintainability of information systems and applications, that do not have to be costly and troublesome programmed, but can intelligently be modelled. And this is just the beginning ...