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Murrelektronik implements a semantic product management solution based on Graphileon InterActor and Neo4j.

For Murrelektronik, a global provider of solutions in the field of industrial automation, having up-to-date product information available to its customers is crucial.

Together with consulting partner Dr. Andreas Weber (Semantic PDM), Graphileon provides a flexible solution to manage complex multi-lingual product information. Graphileon's InterActor is used to create an application suite to create and manage product information templates. These templates are at the basis of various role-based data-entry, validation and reporting processes.

Product information includes hierarchical structures of products and their components, each of which has characteristics and specifications that can be simple (e.g. weight) or complex (e.g. temperature range for storage).

The corresponding data is stored in Neo4j, a graph database that offers the required flexibility with regard to modeling, as well as Cypher, a powerful query language. Graphileon InterActor offers an easy way to manage and visualize the data, as well as a visual environment to build dashboards and applications.

Dr. Andreas Weber :

"Product information traditionally is stored in multiple systems, with its inherent challenges with regard to data-quality and synchronization. Creating platforms that unify these data, together with semantic product data management, in which relations between data (both from products and processes) add additional meaning to the information, helps companies to optimize their processes and create more business value out of their data.

Graphileon InterActor proved to be the right tool to rapidly develop a schema as well as a modular application. Their "the application is a graph" paradigm allows to deploy application modules rapidly while maintaining full transparency and flexibility. Data that is entered using the dynamic forms can also be "browsed" in a controlled way, which is crucial for customers to see the full potential of a graph based solution. The fact that data from various sources, including media like documents and drawings can be stored and linked in a context-sensitive way, helps Murrelektronik to consolidate both its data, and its applications.

About Semantic PDM

Semantic PDM specializes in consulting and implementation of semantic product data management solutions for a variety of clients in the field of manufacturing, covering processes of product creation management, product development and supply chain optimization.

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About Graphileon

Graphileon is the company behind InterActor, a development platform for highly interactive graph-based dashboards and applications. InterActor includes an enhanced Neo4j browser that offers advanced data management options, as well as a multitude of functions and user-interface widgets that can be visually connected to create applications. Graphileon is a solution partner of Neo4j Inc.

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