



Diplomanden- und Doktorandenseminar
des Instituts für Informatik

A Peer-To-Peer (P2P) based Product Collaboration Platform (PCP) supporting decentral collaborative product development

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Product Lifecycle Management (PLM) includes all business activities to manage a company's products across their lifecycle in the most effective way. PLM helps getting products to market faster, and enables better support of customers' use of products. PLM provides a shared platform for creation, organization and dissemination of product related knowledge and includes product-oriented processes covering concept, design, fabrication, assembly, testing, delivery, and disposal of products.

Supporting collaborative and cross-enterprise PLM processes, it is beneficial to employ methods and architectures enabling decentral management of product-related resources. These methods will aim at enabling loosely coupled interaction between changing partners in a decentral environment, where traditional hierarchical client-server based architecture may not be applicable because storing e.g. all product models and model components in a central server, or orchestrating and monitoring all product-related processes from one central point may be infeasible or – for reasons of competition – undesirable.

The goal of our research is to develop and evaluate methods, models, architecture, protocols, and tools suitable for enhancing PLM solutions to support decentral information management and collaboration in PLM, and to come to a better understanding of the benefits, trade-offs and limitations of applying decentralization technologies in the PLM context.

In this talk I present the overall system architecture and key elements of the Product Collaboration Platform (PCP), a peer-to-peer platform for integrated and collaborative product development that is currently being developed in our research group.

Donnerstag den 22. Februar 2007
14.00 Uhr in Raum 106