

Analysis of the P2P paradigms in an application of workflow management systems in business processes

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Today's business and dealing/trading platforms are limited to only one industry and are local within a country. These business transactions platforms are also do not support product workflows over a whole business value chain.

In order to interact and to fulfill the demands for a successful product development for the future, the supply chain must be transferred into a workflow solution and all elements must be supported in a trading platform or connected to different trading platforms.

This talk describes the concept of an integrated workflow and trading platform with the communication demands based on a P2P network infrastructure. The process of defining the business workflow and then managing all procurement (for products and services) and sale actions on a trading platform are integrated in the whole business value chain. By defining and using only sections within a workflow, only bottlenecks within a company organization can also be solved, as well tracking via RFID can be integrated.

The structure of an integrated workflow with a trading platform allows as well to connect different of these platforms to a virtual international business network, which is supported on a basis of P2P network infrastructure.

The concept for this solution allows a new view on the business value chain which is defined by the workflow and divided into procurement, assembly and sales steps, integrated in a network of business partners (sellers and buyers).