

Model and Architecture to Production Inter-Enterprise Collaboration Management

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ABSTRACT

In this work, we firstly present a collaborative model for production companies. Unlike other models, this one is focused on a relation where it is necessary to coordinate production processes of two or more companies. The model consists of several processes that can be jointly executed by the involved companies. Three types of activities compose these processes: internal, collaborative (jointly executed) and monitoring and control activities. Secondly, we present architecture integrated by high level components, which allow to perform the processes that define the proposed collaborative model. We define two types of components: collaborative and internal. The collaborative components are responsible for both executing and coordinating the collaboration processes, while the internal components support the internal requirements of the enterprise. We describe the functionalities of architecture components and technologies to use in the design.

Keywords: collaborative model, software architecture, decisionflow, supply chain