

Comparison of supply chain process models based on service-oriented architecture

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Abstrak

With the passage of time, supply chain processes have shifted toward IT-based business processes regarding service-oriented architecture (SOA) to augment the agility, integration, and flexibility of IT-based applications in enterprise networks. SOA, as a fast-growing paradigm in IT, uses Web service technologies and provides new pattern integration and interoperability in processes, services, and data. Consequently, many reference models have been developed in the field of SC processes to support the requirements for the related modeling, as well as to apply the development and implementation of supply chain information systems. The aim of this paper is to compare six main supply chain reference models regarding SOA and its underlying concepts and to identify which reference model can support different stages of information system development. The results show that no supply chain reference model can support both the coordination and interaction of process models in more detail and with a service-oriented approach in supply chain process modeling. Moreover, there is a need for a plausible methodology for business process modeling based on the service-oriented approach in the domain of supply chain management (SCM).