

Context-based Cooperation in Mobile Business Environments – Managing the Distributed Execution of Mobile Processes

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Abstract

Realistic requirements of mobile business applications often exceed the capabilities of their respective local environments. In order to overcome such restrictions of specific mobile devices, services, and resources, this contribution introduces the concept of context-based cooperation. It is based on mobile processes which enable applications to cross boundaries of individual systems and thereby allow combining both mobile and stationary resources in order to realize highly dynamic individual applications. This contribution presents an approach for realizing context-based cooperation built upon on a respective context management infrastructure and execution environment. It also identifies specific requirements and proposes related enhancements for mobile business applications.

Keywords

Business process management – Mobile computing – Context-awareness – Distributed systems – Service-oriented computing – Mobile process – Cooperation – Migration

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