A Mechanism for Sharing Web Services in Mobile P2P Networks

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Abstract

With popularity of mobile Peer to Peer (P2P) networks and Web Services, sharing Web Services in mobile P2P networks is inevitable. But due to the network bandwidth and computing capability of mobile devices, the applications of mobile P2P and Web services are still limited. In this paper, we propose a mechanism for sharing Web services in Mobile P2P Networks.

The mechanism is built on JXME technology which is a P2P technology suitable for mobile P2P networks. The mechanism is verified through the simulations. The functionalities of JXME and relay peer nodes are analyzed and then the performance of mechanism is discussed. The results show the mechanism is feasible and effective.

Keyword：JXME, JXTA, P2P, Web services, service-oriented architecture (SOA)