

A NEW METHOD AND DESIGN OF INTEGRATING RFID APPLICATIONS TOWARD MOBILE BUSINESS

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Abstract

With the advent of the mobile technologies which provide multi-channel solutions and multi-device services to customers, it is common to predict that the way people access and utilize the information resources will be radically transformed. Radio Frequency Identification (RFID), which is one of the core mobile technologies, is expected to contribute to the development of mobile business and building of ubiquitous and wireless infrastructure. This paper presents the principles governing the design and development of a mobile application, as well as various aspects regarding its integration into a more complex RFID_B2B (Radio Frequency Identification - Business to Business) system. Extending the applicability of RFID_B2B systems represents the main goal of such applications, which are generally expected to handle large amount of data, to operate in stand-alone mode and to allow their easy integration into complex RFID_B2B systems. The paper proposes new solutions and ideas regarding the design and development of a secure and very fast method for the communication and synchronization between the B2B servers and a mobile application running on various mobile devices.