A Multiservice Access Solution based on S-OrBAC Model, Contactless Smartcard and NFC Technologies

Authors:
Mouad Mammass, Hafid Mammass, Fattehallah Ghadi

Abstract
We present in this paper a multiservice access solution based on S-OrBAC model, contactless smartcard and NFC technologies that allow to benefit from free or prepaid multiservice offered by organizations like universities for example. This solution permits to realize secure micro-transactions, network access and application access.

This paper propose a new variant S-OrBAC model based on the concept of service and the authentication of the cardholder by using the security features of the contactless smartcard and by controlling his rights and attributes stored in the S-OrBAC databases.

References
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**Index Terms**

Computer Science  
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**Keywords**

S-OrBAC, Multiservice access, Contactless Smartcard, NFC, JavaCard, ISO7816, APDU, ISO14443.