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## SMART SOLUTIONS: PROTECTION NFC CARDS WITH SHIELDING PLATES

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### Abstract

*In 2017 it was decided at the legislative level to introduce in the cities a system of contactless fare - an electronic ticket. This technology, among other things, involves the use of NFC cards. With the development of this technology, the issue of personal data security is becoming more acute. This technology works on radio waves, the transmission of which is hampered by water and metal. The use of water to protect the cards entails certain difficulties in implementation due to the instability of the substance, therefore, existing technologies use metal in one form or another. The article discusses the existing methods of protection NFC card, but besides advantages, these devices have several drawbacks, which is why in our opinion, they can not be implemented by the municipality as a means of protecting an electronic ticket. That's why we suggest using "NFC card with shielding protection".*

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Electronic ticket, e-ticket, NFC

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### References (9)

1. T. Sakulyeva

Megapolis public transport system

(2018) *International Journal of Civil Engineering and Technology*, Volume 9, Issue 10, Page No 647–658,

2. Bashynska, A. Dyskina

The overview-analytical document of the international experience of building smart city

(2018) *VERSLAS: TEORIJA IR PRAKTIKA / BUSINESS: THEORY AND PRACTICE*, Page No 228-241 ,

DOI: <https://doi.org/10.3846/btp.2018.23>

3. H. Kotak, P. Mamtora, D. Mehta and G. Vithalani.

Automated car parking system with NFC access

(2013) *International Journal of Electronics and Communication Engineering and Technology*, Volume 5, Issue 4, Page No 201-206,

4. M. Amoud, I. Elrhaffari, S. Younoussi, O. Roudies  
Smart buildings: a systematic survey on cyber security

(2018) *International Journal of Civil Engineering and Technology*, Volume 9, Issue 10, Page No 360-368,

5. I. Bashynska  
Using SMM by industrial enterprises

(2018) *Actual Problems of Economics*, Volume 186, Issue 12, Page No 360–369,

6. K. Tanashchuk, K. Kovtunenکو, Yu. Kovtunenکو  
Theoretical and Methodical Principles of Capital Structure Management in the Innovation Activity of Telecommunication Operators

(2018) *Journal of Automation and Information Sciences*, Volume 50, Issue 3, Page No 71-84,  
Article Link: <http://10.1615/JAutomatInfScien.v50.i3.60>

7. Prabhakar Naidu R and Padmavathamma M  
AN ARCHITECTURAL APPROACH TO PROVIDE SECURITY TO THE LL AND CL IN SMART PHONE ADHOC NETWORKS (SPAN)

(2017) *International Journal of Computer Engineering and Technology*, Volume 8, Issue 6, Page No 1-11,

8. M. Karsen, Y. Kurniawan, C. Cassandra and H. Juwitasary  
NFC design for attendance system in the university

(2018) *International Journal of Mechanical Engineering and Technology*, Volume 6, Issue 9, Page No 566-571,

9. I. Bashynska, S. Fillypova  
Risk Management. Practical lessons & Case Study: textbook

(2018)Page No 121,

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