

Design of Enhanced Secure Protocol on NFC Mobile Payment

[Hyun-Joo Yoo, Eun Kim, Su-Jin Lee, Jung-Won Choi, Seong-Jeen Kim, Min-Soo Jung]

Abstract— Currently, mobile payment market has been a momentous global issue. Especially in this country, since its complexity of Active-X installation process and electronic payment process has been on the rise, studies have been lively done for simple but for more secured payment. NFC, as a local area communication module, which takes center stage at the IoT(Internet of Things)environment is basically installed on the mobile platform. Therefore mobile payment market based on NFC environment has been activated and enforcing security also rises as exigent problem. In the process of mobile payment, NFC has been utilized at POS(Point of Sale System). Thus, this paper attempts to analyze and improve current password and algorithm to enforce security of NFC utilized mobile payment protocol.

Keywords—Mobile Payment, NFC, Payment Secure Protocol

Hyun-Joo Yoo, Eun Kim, Su-Jin Lee, Jung-Won Choi
Advanced Engineering (IT Convergence) / Kyungnam University
Korea Republic of.

Seong-Jeen Kim
Electronic Engineering / Kyungnam University
Korea Republic of.

Min-Soo Jung
Computer Science Engineering / Kyungnam University
Korea Republic of.

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