Scheme to Guarantee IP Continuity for NFC-based IoT Networking

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Abstract— **The key idea of IoT services and technologies is connectivity among all kinds of devices. The devices of the future would include very tiny things. Such a tiny device should support low-powered technology. However, the low-power technology could bring potential problems to device functions. This paper give a solution to overcome one of the problems for IoT devices based on NFC networking. NFC, which is from RFID technology, supports peer-to-peer communication on the link layer. Link addresses of NFC devices are not physically fixed values, so this give negative influences to IP networking; especially, connection continuity. Therefore, this paper gives a scheme to guarantee IP continuity for NFC-based IoT networking.**

Keywords*— *Internet of Things, IoT, networking, Near Field Communication, NFC, IPv6-over-NFC, adaptation layer

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