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~~History of Near Field Communication ...~~

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Beginning NFC: Near Field Communication with Arduino, Android, and PhoneGap. Jump into the world of Near Field Communications (NFC), the fast-growing technology that lets devices in close proximity exchange data, using radio signals. With lots of ex-

amples, sample code, exercises, and step-by-step projects, this hands-on guide shows you how to build NFC applications for Android, the Arduino microcontroller, and embedded Linux devices. You'll learn how to write apps using the NFC Data Exchange ...

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Near field communication (NFC) traces its roots back to radio-frequency identification (RFID). Indeed, NFC is actually a subset of RFID with a shorter com-

munication range for security purposes. In 2004, Nokia, Sony, and Philips came together to form the NFC Forum.

Near-Field-Communication (NFC) is a set of communication protocols for communication between two electronic devices over a distance of 4 cm (1 1/2 in) or less. NFC offers a low-speed connection with simple setup that can be used to bootstrap more-capable wireless connections. NFC devices can act as electronic identity documents and key-cards.

Near field communication maintains interoperability between different wireless communication methods

like Bluetooth and other NFC standards including FeliCa -- popular in Japan - through the NFC Forum. Founded in 2004 by Sony, Nokia, and Philips, the forum enforces strict standards that manufacturers must meet when designing NFC compatible devices.

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NFC, or Near Field Communication, is a protocol for the contactless exchange of data between devices (such as the Android-powered Nexus S) and/or certain kinds of tags. NFC also interoperates with certain RFID tags such as the Mifare tags. Where the fun begins is when you throw hobbyist hardware into the mix.

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3.3 General Architecture of NFC Enabled Mobile Phones 82 3.3.1 Secure Element 83 3.3.2 NFC Inter-

face 86 3.3.3 Interface between SE and NFC Controller 86 3.3.4 Host Controller and HCI 89 3.4 Physical Layer of NFC 92 3.4.1 ISO/IEC 14443 - Proximity Contactless Smart Card Standard 92 3.4.2 Near Field Communication Interface and Protocol (NFCIP) 94

Near-field Communication or NFC is a standard defined by the NFC Forum, a global consortium of hardware, software/application, credit card companies, banking, network-providers, and others who are interested in the advancement and standardization of this promising technology.

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 Near Field Communication
 Near Field Communication
 (NFC) enables devices
 within a few centimeters
 of each other to exchange
 information wirelessly.

iOS apps running on sup-
 ported devices can use
 NFC scanning to read data
 from electronic tags at-
 tached to real-world ob-
 jects.

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Overview. Jump into the
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Following are the steps in-
 volved in card emulation
 mode: • Step-1: NFC read-
 er oscillates 13.56 MHz RF
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 EM (Electro-magnetic) cou-
 pling and gets connected
 with the reader. • Step-2:

Reader sends commands
 using RF field. • Step-3:
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Near Field Communication

~~(NFC) Definition~~

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~~Near-field communication -Wikipedia~~

Near Field Communication
Near Field Communication (NFC) enables devices within a few centimeters of each other to exchange information wirelessly. iOS apps running on supported devices can use NFC scanning to read data from electronic tags attached to real-world objects.

~~Near Field Communication -User Interaction- iOS- Human...~~

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