URN etd-0407109-183718-1508
Author Chia-Cheng Kao
Author's Email Address No Public.
Statistics This thesis had been viewed 41 times. Download 0 times.
Department
Year 2005
Semester 2
Degree Master
Type of Document Master's Thesis
Language zh-TW.Big5 Chinese
Title A Study on Radio Frequency Identification Security and Privacy Issues
Date of Defense 0000-00-00
Page Count 56

Keyword
Radio Frequency Identification
Privacy
Security

Abstract
RFID (Radio Frequency Identification) can apply to supply chain, hospital, museum etc., because there are some advantages of RFID over bar code: tags can be read simultaneously, can store large data, have no reading direction and long reading range. nfortunately, the data of RFID system is transferred with radio frequency on the air that causes attackers can easily interfere in the communication between RFID readers and tags to receive information. If RFID is used in supply chain, the privacy of consumers may be leaked to attackers. The privacy issues cause consumers to refuse RFID applications.
Therefore, the RFID can be accepted by consumers only the privacy problems have solved.
In this thesis, we surveyed some researchers' proposed RFID security and privacy protection schemes. We considered why the Security and privacy can be ensured and drawbacks of each scheme. Then, we addressed some guidelines for building a robust protocol.
Besides, we proposed a scheme which improves Henrici & MU+FCller's scheme. The proposed scheme in this thesis can prevent eavesdropping, traceability, spoofing, denial-of-service, and then ensure data privacy, consumer privacy, location privacy.
Advisory Committee Jensen Lin - advisor

Files No Any Full Text File.
Date of Submission 2006-07-23