URN etd-0407109-183705-361
Author Zong-Jhih Lin
Author's Email Address No Public.
Statistics This thesis had been viewed 69 times. Download 0 times.
Department
Year 2006
Semester 1
Degree Master
Type of Document Master's Thesis
Language zh-TW.Big5 Chinese
Title RFID Authentication Protocols with Time Constraint Delegation
Date of Defense 0000-00-00
Page Count 62

Keyword
Delegation
RFID
Security
Privacy
Forward Security

Abstract
RFID is an automatic identification and contactless technology. The messages in RFID is transmitted by radio signals, thus it brings out many security problems. Many scholars have tried to propose various RFID authentication mechanisms to solve the privacy issues. In 2006, Chatmon et al. proposed an efficient authentication mechanism for RFID. However, it fails to achieve the forward security. This thesis proposes an O-TRAP+-FS protocol which can achieve the forward security, and substantially reduces the burden of the backend system. In 2007, Conti et al. proposed a novel protocol which uses pre-computation to speed up identification. However, it cannot identity tags at the same time interval. A new authentication protocol TCD-RAP in this thesis is proposed to solve the problem. Moreover, the TCD-RAP protocol can provide the property of delegation, and thus can be applied in a broader environment.
Advisory Committee Narn-Yih Lee - advisor

Files No Any Full Text File.
Date of Submission 2007-08-04