SpringCard

ProxRunner

ISO 14443 (A&B, T=CL) & ISO 15693 & ISO 18000-3
Wireless Bluetooth RFID scanner

Agenda

- Product overview
- Demonstration
- Appendix

Product overview

ProxRunner assets

Virtually reads any

- ISO/IEC **14443 (A&B)** compliant smartcard
- ISO/IEC **15693** compliant RFID label

Easy to integrate

(Bluetooth connection)

Compliant with virtually any host, PC, PDA, Mobile phone, TabletPC ...

ProxRunner is a wireless 13.56 MHz RFID scanner

ProxRunner features Bluetooth standard connection

Easy to configure

- « Master cards », no development
- On the field configuration
- Supports 4 types of card simultaneously

Ideal for mobile operation

- Lightweight
- Rugged
- Resists unfriendly environments
- Batch mode
- Huge autonomy : over 30000 scans

ProxRunner functionalities

Virtually any host !!

- PC
- PDA
- Smartphone : Blackberry, Iphone (on demand) ...
- Tablet PC

Application host

ProxRunner RFID scanner

Examples of application

- Loyalty, user identification and tracking
- RFID or asset tracking, logistics
- RFID asset management : books, medicines or other valuables

Serial number

- ISO/IEC 14443 contactless smartcard
- ISO/IEC 15693 RFID tag, card

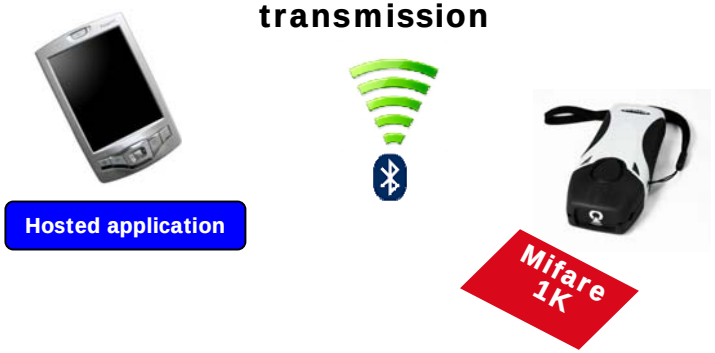
Data from

- Memory card (Mifare, ICODE or other)
- T=CL smartcard file

Reading in a secure session

- Desfire card (DES/3DES authentication and ciphering)

Two modes : Real-time and batch modes



Real-time mode

1 / ProxRunner is managed by the terminal and its hosted application

2 / Real-time transmission as if you were wired

Batch mode

1 / ProxRunner stores up to **10,000 scans**

2 / Can forward them back to a terminal even after days of continuous use

Product scope

ProxRunner

Operating distance (card / tag to ProxRunner) : 0 to 4 cm
Battery autonomy : 30,000 scans

- Is a wireless 13.56 MHz RFID scanner
- Features **Bluetooth 1.2 standard connection, Gap & SPP profiles**
- **Supports baud rate 106 kbps for ISO / IEC 14443 cards**
- **Supports baud rate 26 kbps for ISO / IEC 15693 RFID tags or cards**
- Handles **any ISO / IEC 14443 (type A, B and B') and ISO / IEC 15693 and ISO / IEC 18000-3** compliant smartcards and tags

Supported contactless cards

- **NXP** *(formerly Philips Semiconductors)*: **Mifare Classic & UltraLight, Desfire, ProX, SmartMX**
- **Infineon SLE66 family**
- **ST MicroElectronics SR, SRI, SRIX families**
- **ASK CTS256 / CTS512**
- **Inside PicoTag and HID iClass (serial number only)**
- **Calypso (CD97, CD21, GTML…)**

And virtually any ISO / IEC 14443 A or B compliant smartcard

Supported RFID tags and labels

- **NXP ICODE1, ICODE-SLI**
- **Texas Instrument TagIT**
- **STMicroelectronics LRI**
- **AND MORE**

How to use it?

Procedure

1 / Make sure your terminal is Bluetooth enabled. If not, install a Bluetooth adapter

2 / Register as a new partner at : www.baracoda.com/baracoda/formulaire/index.php

3 / According to the “Compatibility Table” in the menu “Technical support” of your account, install either BaracodaManager or KEmul

4 / Turn on ¨ProxRunner and configure either BaracodaManager or Kemul using the *ProxRunner QuickStart Guide* ** downloadable on our website

Your ProxRunner device is ready-to-use.

You can present the card you want to read to the scanner after opening any text editor!!!

***Free download link :**
http://www.springcard.com/download/proxrunner.html

Example : How to read a name?

User 2:
« Lysa »

User 1:
« Mary »

Example1

- Card type : Mifare
- Target data location : sector 1 block 0
- Size : 16 bytes
- AZERTY keyboard

Example2

- Card type : Desfire 4k
- Target data location : XXXXX
- Size : 16 bytes
- AZERTY Keyboard

Creating master card :
Reading user names on Mifare and Desfire 4k cards

Master card configuration

The Desfire 4k is now configured as a master card !!!

Download and install configuration tool on the page :
http://www.springcard.com/download/proxrunner.html

Master card with config info

Config info

For Mifare cards :
- Target data location : sector 1, block 0
- Size : 16 bytes
- AZERTY keyboard

For Desfire 4k cards :
- Target data location : XXXXX
- Size : 16 bytes
- AZERTY Keyboard

ProxRunner RFID scanner configuration

Configuring ProxRunner RFID scanner

Reader is configured and reads names in Mifare and Desfire 4k cards

Master card with config info

Mifare User 1

Desfire4k User 2

User 1:
« Mary »

User 2:
« Lysa »

ProxRunner supports 4 different templates!!

Demo time!

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