

Prox'N'Roll

a SpringCard 2008 device



Agenda

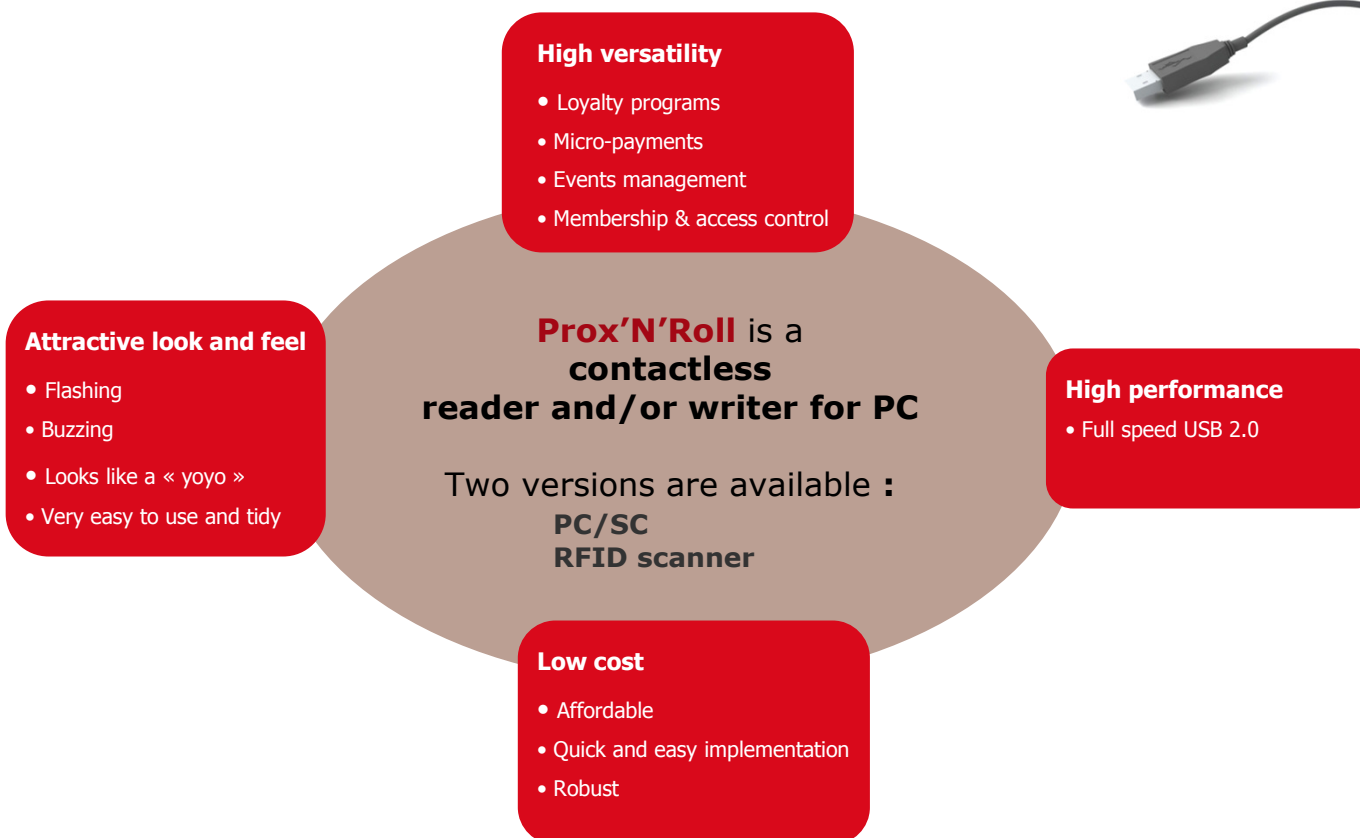
- Product overview
- Prox'N'Roll PC/SC
- Demo time !
- Prox'N'Roll RFID Scanner
- Demo time !





Product overview

Prox'N'Roll assets



Prox'N'Roll versions

About the two versions available :



Version 1 : PC/SC mode

- Contactless smartcard reader/writer (13.56MHz range)
- **PC/SC** : standard USB CCID standard (Windows2000, XP, Vista, Linux)
- SpringCard's PC/SC SDK available for free on our website

Version 2 : RFID scanner mode

- Contactless smartcard reader (13.56MHz)
- USB HID Class : keyboard emulator that reads the card and writes its serial number on any text editor
- Any other information than the serial number can be retrieved by « flashing » the Prox'N'Roll with our configuration software



Prox'N'Roll PC/SC mode

Product scope



Prox'N'Roll PC/SC:

- Is a whole-featured versatile, affordable, robust **contactless smartcard reader/writer** (13.56MHz range)
- Supports **USB 2.0 full speed** (12Mbps), and fastest smartcard baud rate (**848kbps**)
- Handles **any ISO 14443 (type A, B and B')** and **ISO 15693** compliant smartcards or tags

Supported contactless cards/tags

- **NXP (Philips) : ICODE1, ICODE-SLI, Mifare Classic and UltraLight, Desfire, ProX, SmartMX,**
- **Texas Instrument : TagIT,**
- **ST MicroElectronics : SR176, SRiX, LRI etc**
- **ASK CTS256B and CTS512B,**
- **HID iClass and Inside PicoTag (serial number only),**
- **MultOS or JavaCard T=CL cards,**
- **Calypso transportation cards,**
- **NFC mobile phones or other NFC-capable objects (tag emulation mode)**

PC/SC mode



Prox'N'Roll PC/SC is compliant with the standardized smartcard reader API called PC/SC that allows developers to work with contactless cards (including Mifare and other wired-logic chips) as easily as if they were classical T=0 or T=1 contact cards.

Interoperability of applications and readers.

Use the Prox'N'Roll with an application from our **free PC/SC Quickstart**.

Program your own PC/SC software using our **free PC/SC SDK**.

How to use Prox'N'Roll PC/SC on Windows?



Examples of application

- Loyalty programs,
- Micro-payment,
- Card issuing desk,
- User identification,
- and more

Procedure

- 1/** Plug in your Prox'N'Roll
- 2/** Install the Microsoft driver :
USB smartcard reader
- 3/** Launch your PC/SC application or an example of application* provided by SpringCard :

**Your Prox'N'Roll PC/SC device is ready-to-use.
You can present a card to the reader/writer!!**

*** All the softwares download link :**
<http://www.springcard.com/download/proxnroll.html>

Prox'N'Roll : Demo Time !

- QuickStart applications : PCSC Diag, MifareTool
- Epassport reading : Golden Reader (PC/SC Compatible)



Prox'N'Roll RFID scanner version

Product scope



Prox'N'Roll RFID scanner :

- Contactless **reader device emulating keyboard entries** : displays instantaneously smartcard serial numbers on any text editor!
- **ZERO installation** : completely autonomous!!!
- Handles any **ISO 14443 (type A, B and B')** or **ISO 15693** compliant smartcards/tags!

Supported contactless cards/tags

- **NXP (Philips)** : **ICODE1, ICODE-SLI, Mifare Classic and UltraLight, Desfire, ProX, SmartMX,**
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- **NFC mobile phones or other NFC-capable objects** (*tag emulation mode*)

How to use Prox'N'Roll RFID scanner?



Procedure

- 1/ Plug in your Prox'N'Roll RFID Scanner
- 2/ Open a text editor

**Your Prox'N'Roll device is ready-to-use.
You can present the card you want to read to the scanner!!!**

Examples of application

- Identify and authenticate cards/tags
- Manage events by monitoring/identifying attendees
- Replace bar codes/manual data entry for **fast inventories**

Example : How to read a name?



Example1

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

User 2:

« Lysa »

User 1:

« Mary »

Desfire4k
User 2

Mifare
User 1

Example2

- Card type : Desfire 4k
- AID : XXX
- File identifier : xxx
- Offset : xxx
- Length : xxx bytes
- Size : 32 bytes
- Authentication key : xxxxx
- Algorithm : HMAC-MD5
- Azerty keyboard

Costumized configuration : Reading user names on Mifare and Desfire 4k cards

Download and install our
configuration tool software

Set the options in the different
tabs



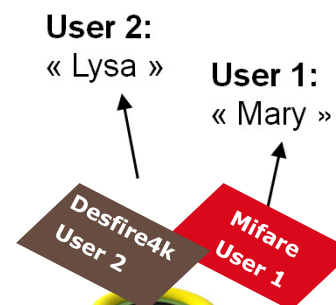
Download and install configuration tool on the page :
<http://www.springcard.com/download/proxnroll.html>



Prox'N'Roll RFID scanner configuration

Send the configuration to the
Prox'N'Roll RFID scanner

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



Prox'N'Roll supports 4 different templates!!



Prox'N'Roll Demo time !

- How to configure the RFID scanner to read other data than the serial number of the card

Contact us

SpringCard

HEADQUARTERS, EUROPE

13 voie la Cardon
Parc Gutenberg
91120 Palaiseau
France

Phone : +33 (0) 164 53 20 10
Fax : +33 (0) 164 53 20 18

SpringCard

AMERICAS

964 Fifth Avenue
Suite 235
San Diego, CA 92101
USA

Phone : +1 (619) 544 1450
Fax : +1 (619) 573 6867



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