main Go to file Code

doegox few fixes	bad2112 · 4 months ago
EMV-CAP	few fixes 4 months ago
EMV-CAP-test.sh	Adding setup.py to f... 14 years ago
EMVCAPcore.py	Fix str->byte in DES c... 4 years ago
EMVCAPfoo.py	All authors agreed t... 4 years ago
LICENSE.txt	All authors agreed t... 4 years ago
README.md	few fixes 4 months ago
emvcap-calculators....	add calculators pic 9 years ago
requirements.txt	pycrypto incompatib... 4 years ago
setup.py	Fix setup.py: license, ... 4 years ago

README GPL-3.0 license

About

This tool emulates an EMV-CAP device, to illustrate the article "Banque en ligne : à la decouverte d'EMV-CAP" published in MISC, issue #56 and freely available online.

Examples of EMV-CAP calculators:

Requirements

Debian

- `sudo apt install libpcsclite-dev uv`

Mac OSX

Tested with Yosemite 10.10.5

- brew: see the Brew homepage on how to install it
- `sudo easy_install pip`
- `brew install swig`
- `sudo pip install -r requirements.txt`

Usage

Command line help:

```
$ ./EMV-CAP -h
usage: EMV-CAP [-h] [-l] [-L] [--tlv PARSETLV]
               [-r {<index>, <reader_substring>
               [--warmreset {auto,yes,no}]
               [N [N ...]]

EMV-CAP calculator

optional arguments:
  -h, --help            show this help message

Standalone options:
  -l, --listreaders     print list of available
  -L, --listapps        print list of available
                        exit
  --tlv PARSETLV        parse a hex string int

Global options:
  -r {<index>, <reader_substring>}, --reader {
                        select one specific rea
                        string or sub-string of
                        be used.
  -d, --debug           print exchanged APDU fo
  -v, --verbose         print APDU parsing

Modes and data:
  -m {1,2}, --mode {1,2}
                        M1/M2 mode selection (r
                        used)
  N                     number(s) as M1/M2 data
                        and max 10 10-digit num
  --warmreset {auto,yes,no}
                        Warm reset: yes / no /
                        will perform a warm res
                        (indirect convention)

Examples:
   EMV-CAP --listreaders
   EMV-CAP --listapps
   EMV-CAP --listapps --debug --reader foo:cap
   EMV-CAP -m1 123456
   EMV-CAP -m2
   EMV-CAP -m2 1000 3101234567
```

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- Jean-Pierre Szikora

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```

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Links

- http://connect.ed-diamond.com/MISC/MISC-056/Banques-en-ligne-a-la-decouverte-d-EMV-CAP

- https://sites.uclouvain.be/EMV-CAP/
- Alternatives:
  - https://github.com/russss/python-emv
  - https://github.com/davidgfnet/card-cap-authenticator-android