

## How to install R502 readers on Linux and Raspberry

(Example for Ubuntu/Debian systems).

1. Open a root terminal window; you need to have administrator rights. Get and install the libusb library with the apt-get command:

apt-get install libusb-dev libusb++-0.1-4c2

Check the installation: You shall find the library libusb.so under the directory /usr/lib/

2. Download and install the libccid package:

apt-get install libccid

3. Download and install the pcsc-lite package:

apt-get install pcscd

4. Check that the pcscd service is running:

In the terminal console, run the command ps –A.

You should find a "pcscd" process running in the list displayed

Run pcscd in terminal

5. Download and install libpcsclite1:

apt-get install libpcsclite1

6. Download and install libpcsclite-dev:

apt-get install libpcsclite-dev

7. Check whether the R502 reader is detected:

your\_system\_name:/tmp# <mark>lsusb</mark>

Bus 001 Device 002: ID 096e:0608

8. Use root to run "install script":

\$ wget http://download.ftsafe.com/files/reader/product/R502/install.sh

\$ sh install.sh or \$ bash install.sh

9. After run "install script", then insert reader and start "pcscd" service.

Run "pcsctest" command to do test

Like below:

pcscd –adf //run pcscd service, for parameter, you can using "man pcscd" to

get more helps

pcsctest



10. To develop application based on FEITIAN R502, check below:

To develop your own application, just follow PCSC Lite APIs <a href="http://pcsclite.alioth.debian.org/api/group">http://pcsclite.alioth.debian.org/api/group</a> API.html

For the test demo application, you can found in source code, which named "pcsctest" <a href="https://alioth.debian.org/frs/?group\_id=30105">https://alioth.debian.org/frs/?group\_id=30105</a>