

IcCard4442 Manual

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1. Document version

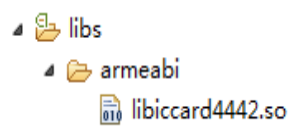
Data	version	author	audit	note
2016-7-12	1.0	chen	edasion	First version
2016-7-23	1.1	chen	edasion	Add shift iccard mode

2. Build development environment

2.1 Eclipse

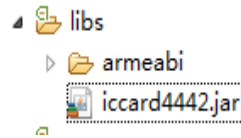
2.1.1 Load dynamic library

In your Android Project, In the libs folder to create a armeabi folder,put libiccard4442.so in,as shown in the figure.



2.1.2 Load jar file

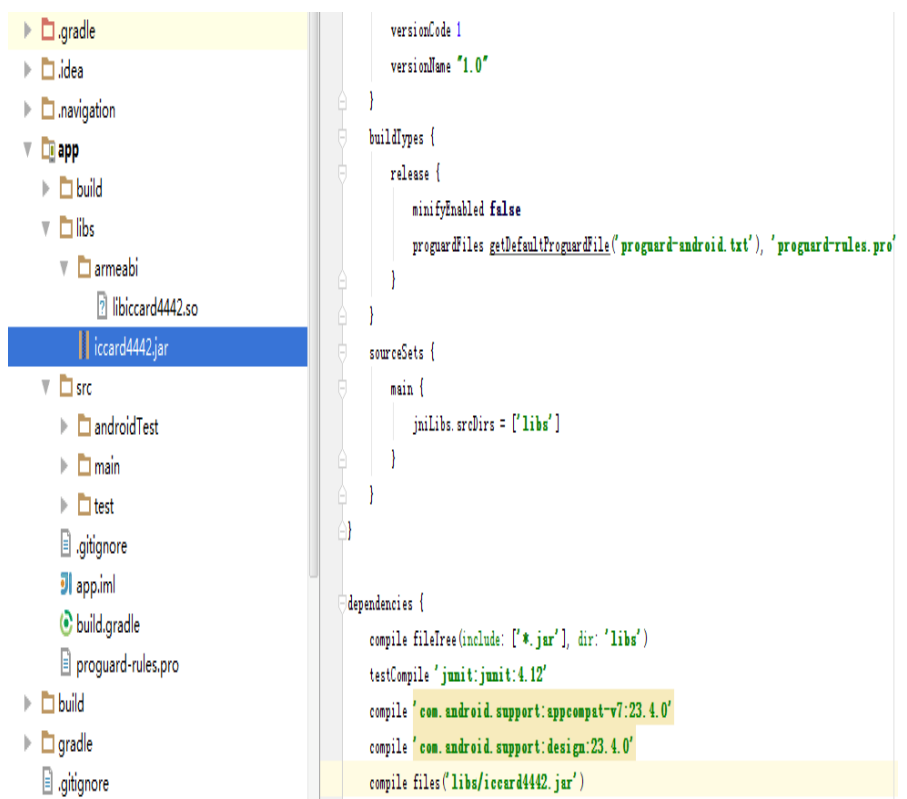
Put iccard4442.jar into the libs, as shown in the figure.



2.2 Android_studio

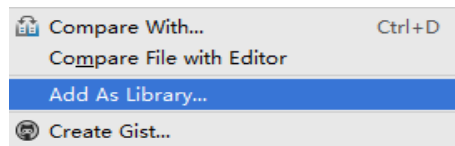
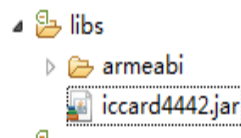
2.2.1 Load dynamic library

In your Android Project, In the libs folder to create a armeabi folder,put libiccard4442.so in, and in build.gradle file add sourceSets { main {jniLibs.srcDirs=['libs']} }, as shown in the figure.



2.2.2 Load jar file

Put iccard4442.jar into the libs, in iccard4442.jar right click the mouse and Select menu -> add as library jar file,as shown in the figure.



3. Use IcCard4442

3.1 Introduce IcCard4442

Iccard4442 have 256 memory bytes,address space is 0x00 to 0xff.From 0x00 to 0x20 is vendor space, you can read 256 bytes from it,but you only write data to it from 0x20 to 0xff.

3.2 Create IcCard4442

```
IcCard4442 iccard4442 = new IcCard4442 ();
```

3.3 Open Iccard4442

`iccard4442.open()`; if this operation is successful, you can read data or write data.

If you want read data from it, you can call read function, if you want write data or change password to it, before call write or `resetPasswd` function, you must call verify function to verify password what you set. Most of iccard4442 default password is `0xffffffff`. You can most write 224 bytes to it, because of 0~32 is vendor memory area which not support be written.

Which is important to you, you only have three chances to verify password, if fail, iccard4442 will be locked forever.

3.4 Close iccard4442

One thing is very important, if you no longer use the iccard4442, you must call `iccard4442.close()` to close iccard4442, or it will consume electricity and reduced life.

4. Iccard4442 interface function

4.1 Function list

In `iccard4442.jar`, it provides some function interface to you use iccard4442, refer to following table:

no	name	description
----	------	-------------

1	open	Open iccard4442
2	close	Close iccard4442
3	getVersion	Get version
4	verify	Verify password
5	read	Read data from iccard4442
6	write	Write data to iccard4442
7	resetPasswd	Reset password

4.2 function description

4.2.1 open

function:

```
public int open();
```

description:

Open iccard4442

In parameter:

no

out parameter:

no

return value:

-1: fail

0: success

4.2.2 clsoe

function:

```
public int close();
```

description:

Close iccard4442.

in parameter:

no

out parameter:

no

return value:

-1: fail

0: success

4.2.3 getVersion

function:

```
static public String getVersion()
```

description:

Get version of this SDK,note: this
function is static

in parameter:

no

out parameter:

no

return value:

String: SDK version

4.2.4 verify

function:

```
public int verify (int password);
```

description:

verify password.

in parameter:

password : 0~0xffffffff()

out parameter:

no

return value:

2: fail,only two chances

1: fail,only one chances

0: success

-1: fail

-2: time out

-3: in parameter error

-4: be locked forever

-5: no insert iccard4442

-6: mode error

4.2.5 read

function:

```
public int read (int    add,  
                 byte[] dat,  
                 int    read_len);
```

description:

read data from iccard4442.

in parameter:

add : read address(0~0xff)

read_len : read length(<256)

out parameter:

dat : be read data

return value:

- 0: success
- 1: fail
- 2: time out
- 3: in parameter error

4.2.6 write

function:

```
public int write (int add,
                 byte[] dat,
                 int write_len);
```

description:

wirte data to iccard4442

in parameter:

add : read address(0x20~0xff)
 dat : be written data
 write_len : write length(<225)

out parameter:

no

return value:

- 0 : success
- 1: fail

-2: time out

-3: in parameter error

4.2.7 resetPasswd

function:

```
public int resetPasswd (int password);
```

description:

reset password

in parameter:

password: 0~0xffffffff

out parameter:

no

return value:

0 : success

-1: fail

-2: time out

-3: in parameter error