

# 7003 IccardEMV Manual

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## 1. Document version

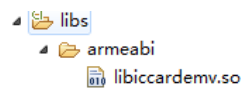
| Data     | version | author | audit   | note          |
|----------|---------|--------|---------|---------------|
| 2016-6-1 | 1.0     | chen   | edasion | First version |

## 2. Build development environment

### 2.1 Eclipse

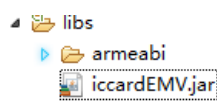
#### 2.1.1 Load dynamic library

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



#### 2.1.2 Load jar file

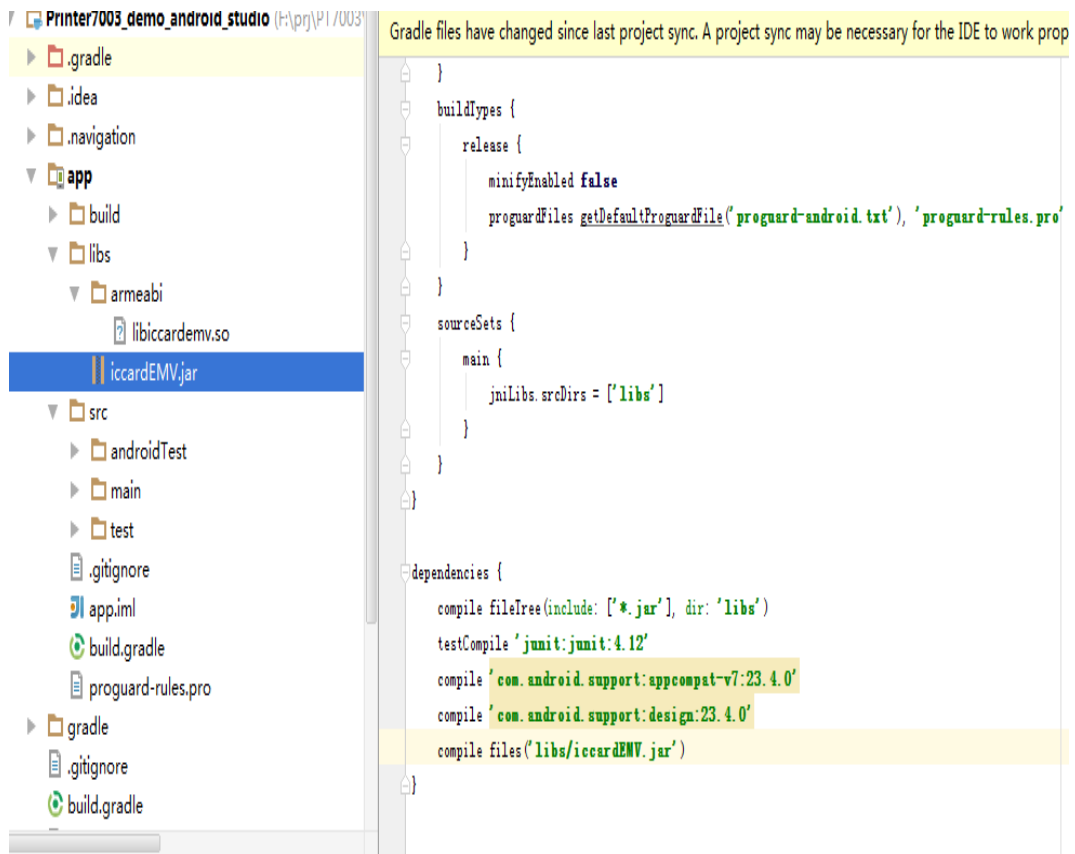
Put iccardEMV.jar into the libs, as shown in the figure.



## 2.2 Android\_studio

### 2.2.1 Load dynamic library

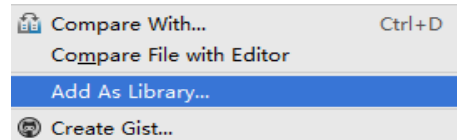
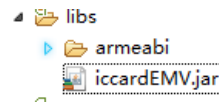
In your Android Project, In the libs folder to create a armeabi folder, put libiccardemv.so in, and in build.gradle file add sourceSets { main {jniLibs.srcDirs=['libs']} }, as shown in the figure.



### 2.2.2 Load jar file

Put iccardEMV.jar into the libs, in iccardEMV.jar right click the mouse and Select menu -> add as library jar

file,as shown in the figure.



### 3. Use IccardEMV

#### 3.1 Create IccardEMV

```
IccardEMV iccardEMV = new IccardEMV ();
```

#### 3.2 Open IccardEMV

iccardEMV.open(); if this operation is successful,you can read data from iccardEMV by APDU command.you must do 4 step.

Step1: seek iccardEMV,if seek successful,you can continue next setp.

Step2: activate iccardEMV,if activate successful,you can continue next step.

Step3: exeApdu command,you can Interact with the iccardEMV.

Step4: move iccardEMV,or you can not read next iccardEMV.

### 3.3 Close iccardEMV

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

## 4. iccardEMV interface function

### 4.1 Function list

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

| no | name       | description                        |
|----|------------|------------------------------------|
| 1  | open       | Open iccardEMV                     |
| 2  | close      | Close iccardEMV                    |
| 3  | getVersion | Get version                        |
| 4  | seek       | To seek whether there is iccardEMV |
| 5  | activate   | Activate iccardEMV                 |
| 6  | exeAPDU    | Execute the APDU command           |
| 7  | move       | Move iccardEMV                     |

## 4.2 function description

### 4.2.1 open

function:

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

description:

Open iccardEMV

In parameter:

no

out parameter:

no

return value:

-1: fail

0: success

### 4.2.2 close

function:

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

description:

Close iccardEMV.

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 seek

function:

```
public int seek ();
```

description:

seek iccardEMV.

in parameter:

no

out parameter:

no

return value:

0: success

-1: fail

-2: time out

#### 4.2.5 activate

function:

```
public int activate ();
```

description:

activate iccardEMV.

in parameter:

no

out parameter:

no

return value:

- 0: success
- 1: fail
- 2: time out

#### 4.2.6 exeAPDU

function:

```
public int    exeAPDU(byte[] in_dat,
                      int in_dat_len ,
                      byte [] out_dat);
```

description:

Execute the APDU command

in parameter:

in\_dat : APDU command data

in\_dat\_len: APDU command length

out parameter:

out\_dat: iccardEMV back data

return value:

- >0: the length of iccardEMV back data
- 1: fail
- 2: time out

#### 4.2.7 move

function:

```
public int move ();
```

description:

move iccardEMV.

in parameter:

no

out parameter:

no

return value:

0: success

-1: fail

-2: time out