

IcCard5542 Manual

1. DOCUMENT VERSION	2
2. BUILD DEVELOPMENT ENVIRONMENT	2
2.1 ECLIPSE	2
2.1.1 Load dynamic library	2
2.1.2 Load jar file	3
2.2 ANDROID_STUDIO	3
2.2.1 Load dynamic library	3
2.2.2 Load jar file	5
3. USE ICCARD5542	5
3.1 INTRODUCE IcCARD5542	5
3.2 CREATE IcCARD5542	5
3.3 OPEN ICCARD5542	5
3.4 CLOSE ICCARD5542	6
4. ICCARD5542 INTERFACE FUNCTION	6
4.1 FUNCTION LIST	6
4.2 FUNCTION DESCRIPTION	7
4.2.1 open	7
4.2.2 clsoe	8
4.2.3 getVersion	8
4.2.4 verify	9
4.2.5 read	10
4.2.6 write	11
4.2.7 resetPasswd	12

1. Document version

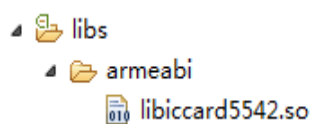
Data	version	author	audit	note
2016-12-9	1.0	chen	edasion	First version
2017-3-9	1.1	chen	edasion	Change read mode

2. Build development environment

2.1 Eclipse

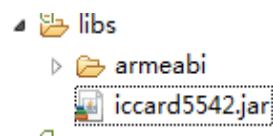
2.1.1 Load dynamic library

In your Android Project, In the libs folder to create a armeabi folder,put libiccard5542.so in,as shown in the figure.



2.1.2 Load jar file

Put iccard5542.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 libiccard5542.so in, and in build.gradle file add sourceSets { main {jniLibs.srcDirs=['libs'] } }, as shown in the figure.

- .gradle
- .idea
- .navigation
- ▼ app
 - build
 - ▼ libs
 - ▾ armeabi
 - libiccard5542.so
 - iccard5542.jar
 - src
 - androidTest
 - main
 - test
 - .gitignore
 - app.iml
 - build.gradle
 - proguard-rules.pro
- build
- gradle
 - .gitignore
 - build.gradle
 - gradle.properties
 - gradlew
 - gradlew.bat
 - local.properties
 - Printer7003_demo_android_studio.iml
 - settings.gradle
- External Libraries

```

buildToolsVersion "24.0.0"

defaultConfig {
    applicationId "com.example.administrator.printer7003_demo_android_studio"
    minSdkVersion 15
    targetSdkVersion 23
    versionCode 1
    versionName "1.0"
}

buildTypes {
    release {
        minifyEnabled false
        proguardFiles getDefaultProguardFile('proguard-android.txt'), 'proguard-rules.pro'
    }
}

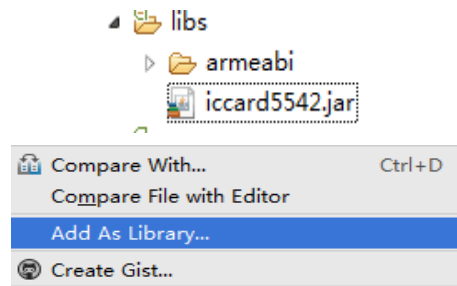
sourceSets {
    main {
        jniLibs.srcDirs = ['libs']
    }
}

dependencies {
    compile fileTree(include: ['*.jar'], dir: 'libs')
    testCompile 'junit:junit:4.12'
    compile 'com.android.support:appcompat-v7:23.4.0'
    compile 'com.android.support:design:23.4.0'
    compile files('libs/iccard5542.jar')
}

```

2.2.2 Load jar file

Put iccard5542.jar into the libs, in iccard5542.jar right click the mouse and Select menu -> add as library jar file,as shown in the figure.



3. Use IcCard5542

3.1 Introduce IcCard5542

Iccard5542 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 IcCard5542

```
IcCard5542 iccard5542 = new IcCard5542 ();
```

3.3 Open IcCard5542

iccard5542.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 iccard5542 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, iccard5542 will be locked forever.

3.4 Close iccard5542

One thing is very important,if you no longer use the iccard5542,you must call iccard5542.close() to close iccard5542,or it will consume electricity and reduced life.

4. Iccard5542 interface function

4.1 Function list

In iccard5542.jar,it provides some function interface to you use iccard5542,refer to following table:

no	name	description
1	open	Open iccard5542
2	close	Close iccard5542

3	getVersion	Get version
4	verify	Verify password
5	read	Read data from iccard5542
6	write	Write data to iccard5542
7	resetPasswd	Reset password

4.2 function description

4.2.1 open

function:

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

description:

Open iccard5542

In parameter:

no

out parameter:

no

return value:

-1: fail

0: success

4.2.2 clsoe

function:

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

description:

Close iccard5542.

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 iccard5542

-6: mode error

4.2.5 read

function:

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

description:

read data from iccard5542.

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 iccard5542

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