

7003 Sam1 Manual

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1. Document version

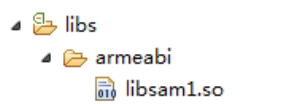
Data	version	author	audit	note
2016-5-20	1.0	chen	edasion	First version
2017-2-24	1.1	chen	edasion	add build development environment of android studio
2017-2-28	1.2	chen	edasion	Change activate funtion

2. Build development environment

2.1 Eclipse

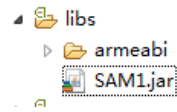
2.1.1 Load dynamic library

In your Android Project, In the libs folder to create a armeabi folder,put libsam1.so in,as shown in the figure.



2.1.2 Load jar file

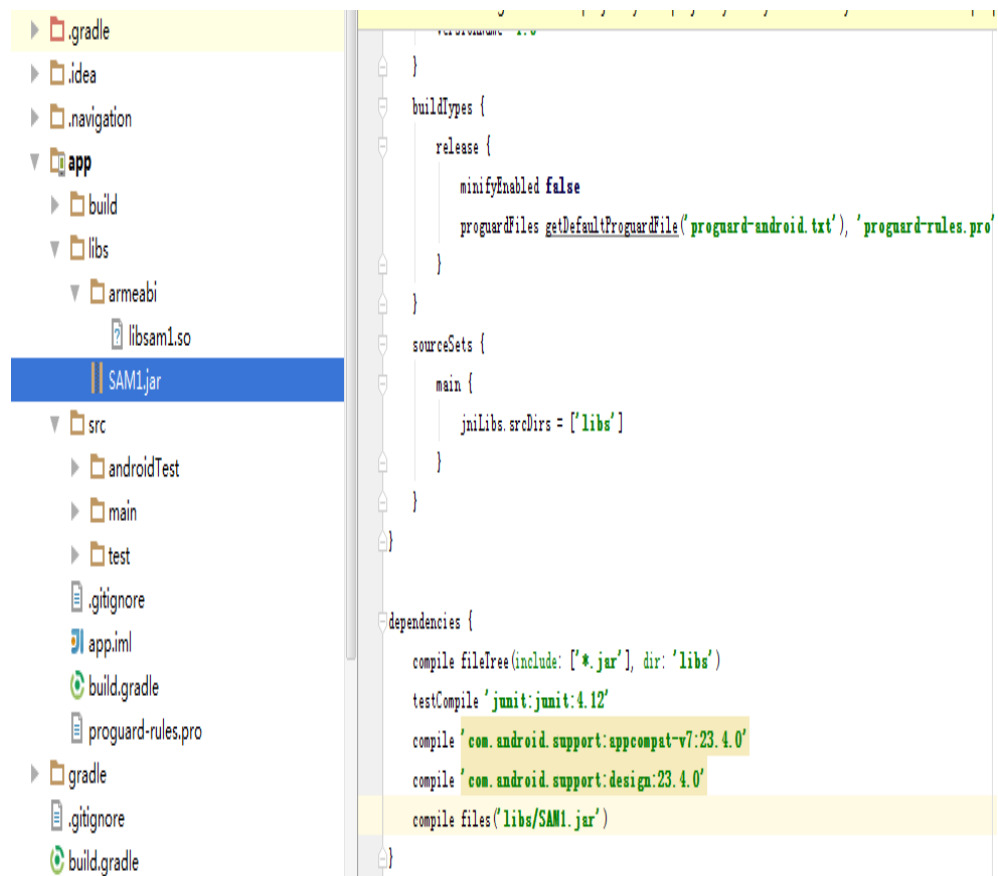
Put SAM1.jar into the libs, as shown in the figure.



2.2 Android_studio

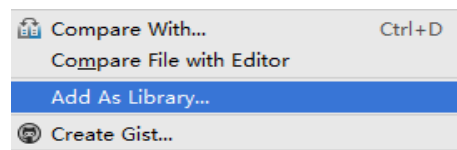
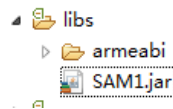
2.2.1 Load dynamic library

In your Android Project, In the libs folder to create a armeabi folder, put libsam1.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 SAM1.jar into the libs, in SAM1.jar right click the mouse and Select menu -> add as library jar file,as shown in the figure.



3. Use Sam1

3.1 Create Sam1

```
SAM1 sam1 = new SAM1 ();
```

3.2 Open Sam1

 sam1.open(); if this operation is successful,you can read data from sam1 by APDU command.you must do 3 step.

Step1: activate sam1,if activate successful,you can continue next step.

Step2: exeApdu command,you can Interact with the sam1.

Step3: move sam1,or you can not read next sam1.

3.3 Close sam1

One thing is very important,if you no longer use the sam1,you must call sam1.close() to close sam1,or it will consume electricity and reduced life.

4. sam1 interface function

4.1 Function list

In SAM1.jar,it provides some function interface to you use sam1,refer to following table:

no	name	description
1	open	Open sam1
2	close	Close sam1
3	getVersion	Get version
4	activate	Activate sam1
5	exeAPDU	Execute the APDU command
6	move	Move sam1

4.2 function description

4.2.1 open

function:

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

description:

Open sam1

In parameter:

no

out parameter:

no

return value:

-1: fail

0: success

4.2.2 close

function:

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

description:

Close sam1.

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 activate

function:

```
public int activate (byte [] out_dat);
```

description:

activate sam1.

in parameter:

no

out parameter:

out_dat: activate sam1 back data

return value:

>0: the length of activate sam1 back data

-1: fail

-2: time out

4.2.5 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: sam1 back data

return value:

>0: the length of sam1 back data

-1: fail

-2: time out

4.2.6 move

function:

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

description:

move sam1.

in parameter:

no

out parameter:

no

return value:

0: success

-1: fail

-2: time out

