

7003 Sam2 Manual

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1. Document version

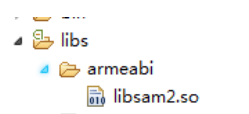
Data	version	author	audit	note
2016-5-20	1.0	chen	edasion	First version
2017-2-24	1.1	chen	edasion	add build development environment of android studio
2017-2-28	1.2	chen	edasion	Change activate funtion

2. Build development environment

2.1 Eclipse

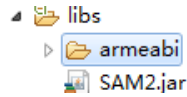
2.1.1 Load dynamic library

In your Android Project, In the libs folder to create a armeabi folder,put libsam2.so in,as shown in the figure.



2.1.2 Load jar file

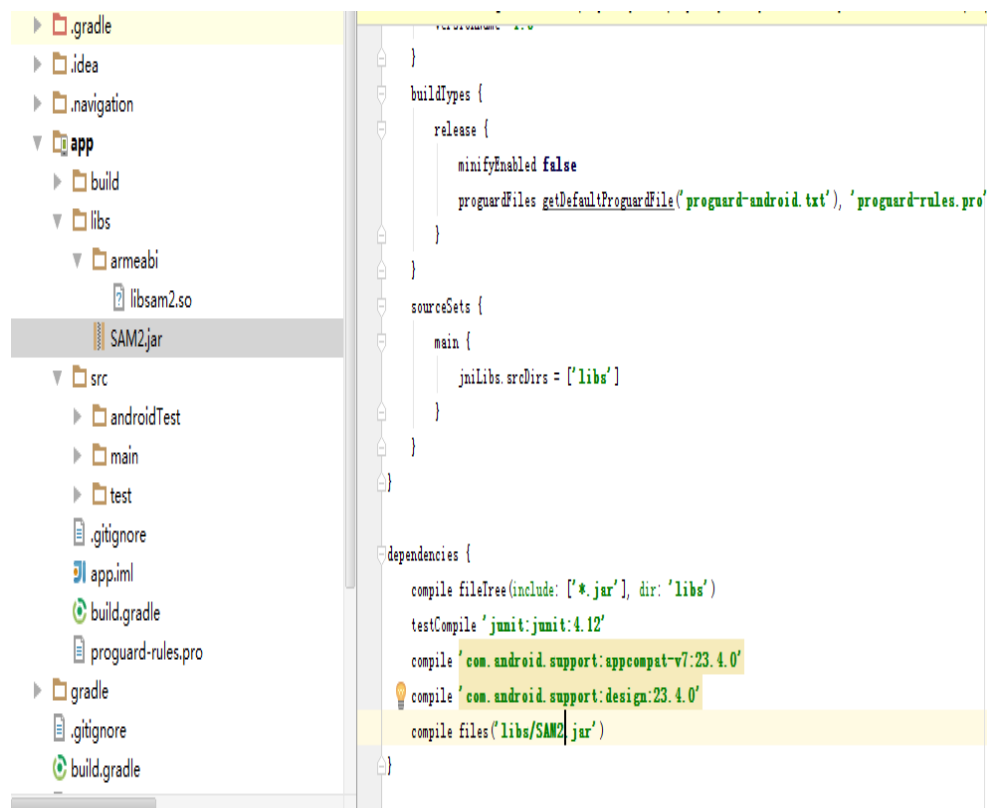
Put SAM2.jar into the libs, as shown in the figure.



2.2 Android_studio

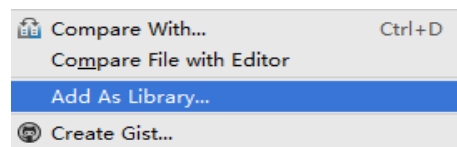
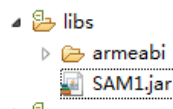
2.2.1 Load dynamic library

In your Android Project, In the libs folder to create a armeabi folder, put libsam2.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 SAM2.jar into the libs, in SAM2.jar right click the mouse and Select menu -> add as library jar file,as shown in the figure.



3. Use Sam2

3.1 Create Sam2

```
SAM2 sam2 = new SAM2 ();
```

3.2 Open Sam2

sam2.open(); if this operation is successful,you can read data from sam2 by APDU command.you must do 3 step.

Step1: activate sam2,if activate successful,you can continue next step.

Step2: exeApdu command,you can Interact with the sam2.

Step3: move sam2,or you can not read next sam2.

3.3 Close sam2

One thing is very important,if you no longer use the sam2,you must call sam2.close() to close sam2,or it will consume electricity and reduced life.

4. sam2 interface function

4.1 Function list

In SAM2.jar,it provides some function interface to you use sam2,refer to following table:

no	name	description
1	open	Open sam2
2	close	Close sam2
3	getVersion	Get version
4	activate	Activate sam2
5	exeAPDU	Execute the APDU command
6	move	Move sam2

4.2 function description

4.2.1 open

function:

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

description:

Open sam2

In parameter:

no

out parameter:

no

return value:

-1: fail

0: success

4.2.2 close

function:

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

description:

Close sam2.

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 sam2.

in parameter:

no

out parameter:

out_dat: activate sam2 back data

return value:

>0: the length of activate sam2 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: sam2 back data

return value:

>0: the length of sam2 back data

-1: fail

-2: time out

4.2.6 move

function:

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

description:

move sam2.

in parameter:

no

out parameter:

no

return value:

0: success

-1: fail

-2: time out