

7003 Nfc Manual

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1. Document version

Data	version	author	audit	note
2016-6-1	1.0	chen	edasion	First version
2016-6-27	1.1	chen	edasion	add build development environment of android stuido

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 libnfc7003.so in,as shown in the figure.



2.1.2 Load jar file

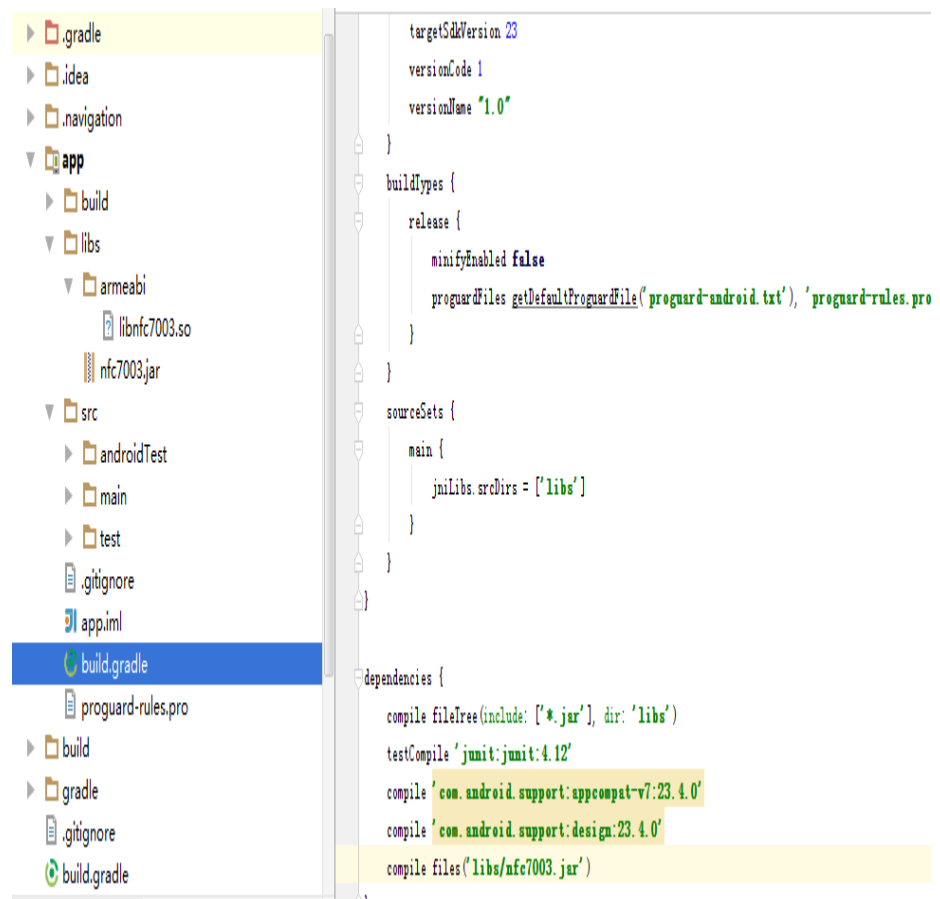
Put nfc7003.jar into the libs, as shown in the figure.



2.2 Android_studio

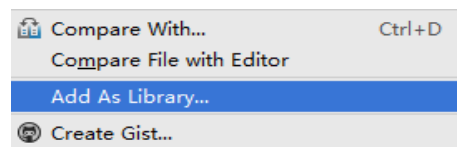
2.2.1 Load dynamic library

In your Android Project, In the libs folder to create a armeabi folder,put libnfc7003.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 nfc7003.jar into the libs, in nfc7003.jar right click the mouse and Select menu -> add as library jar file,as shown in the figure.



3. Use Nfc

3.1 Create Nfc

```
Nfc nfc = new Nfc ();
```

3.2 Open Nfc

nfc.open(); if this operation is successful,you can read or write data to nfc card by APDU command.you must do 4 step.

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

Step2: activate Nfc card,if activate successful,you can continue

next step.

Step3: exeApdu command,you can Interact with the Nfc card.

Step4: move Nfc card,or you can not read next Nfc card.

3.3 Close Nfc

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

4. Nfc interface function

4.1 Function list

In `nfc7003.jar`,it provides some function interface to you use nfc,refer to following table:

no	name	description
1	open	Open Nfc
2	close	Close Nfc
3	getVersion	Get version
4	seek	To seek whether there is NFC card
5	activate	Activate NFC card
6	exeAPDU	Execute the APDU command

7	move	Move NFC card
---	------	---------------

4.2 function description

4.2.1 open

function:

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

description:

Open nfc card.

In parameter:

no

out parameter:

no

return value:

-1: fail

0: success

4.2.2 clsoe

function:

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

description:

Close nfc card.

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 (byte[] id);
```

description:

seek NFC card.

in parameter:

no

out parameter:

id: if seek a nfc card,it will back 4 byte nfc
card id.

return value:

0: success

-1: fail

-2: time out

4.2.5 activate

function:

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

description:

activate NFC card.

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: nfc card back data

return value:

>0: the length of nfc card back data

-1: fail

-2: time out

4.2.7 move

function:

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

description:

move nfc card.

in parameter:

no

out parameter:

no

return value:

0: success

-1: fail

-2: time out