

7003 MSR 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
2016-11-9	1.2	chen	edasion	Modify track len error,define new libmsr7003.so
2017-6-13	1.3	chen	edasion	Swipe card can cause APK is died

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 libmsr7003.so in,as shown in the

figure.



2.1.2 Load jar file

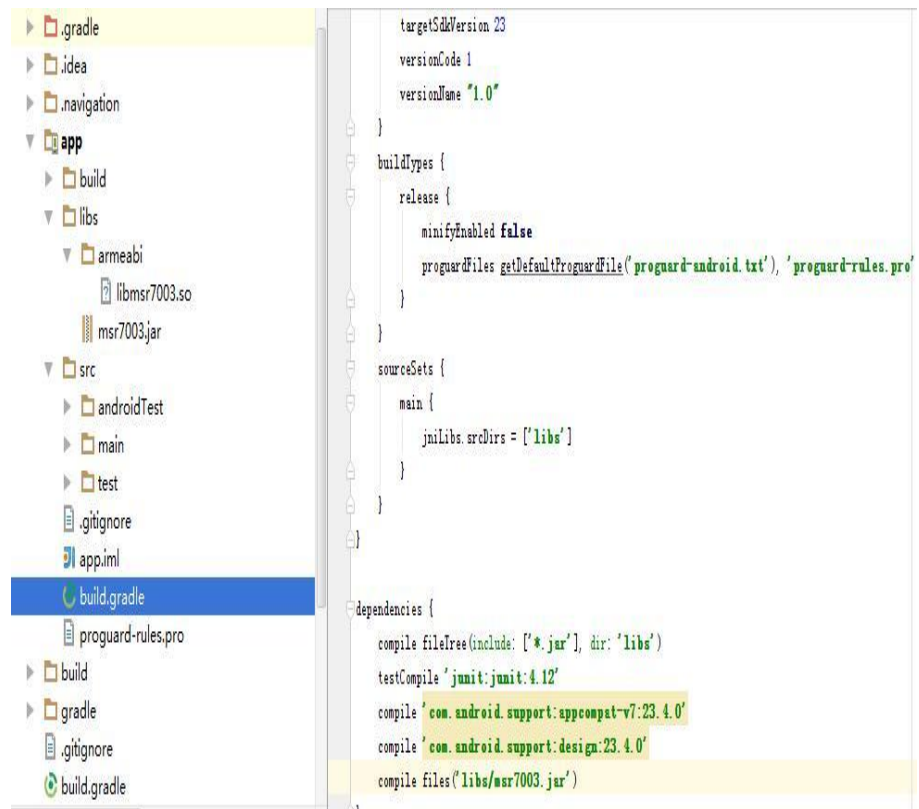
Put msr7003.jar into the libs, as shown in the figure.



2.2 Android_studio

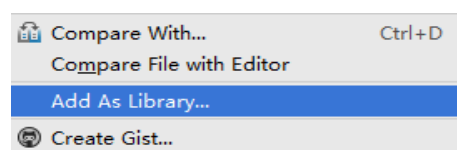
2.2.1 Load dynamic library

In your Android Project, In the libs folder to create a armeabi folder,put libmsr7003.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 msr7003.jar into the libs, in msr7003.jar right click the mouse and Select menu -> add as library jar file,as shown in the figure.



3. Use Msr

3.1 Create Msr

```
Msr msr = new Msr ();
```

3.2 Open Msr

msr.open(); if this operation is successful, you can read information of Track 1, Track 2, Track 3 .

Step1: you must call function pool to wait for swipe card.

Step2: Call function getTrackError to judge which track have data.

Step3: Call function getTrackData to get track data.

3.3 Close Msr

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

4. Msr interface function

4.1 Function list

In msr7003.jar, it provides some function interface to you

use msr, refer to following table:

no	name	description
1	open	Open scan
2	close	Close scan
3	getVersion	Get version
4	pool	Wait for swipe card
5	getTrackError	Specified Track occurred error
6	getTrackDataLength	Get data length of specified Track
7	getTrackData	Get data of specified Track

4.2 function description

4.2.1 open

function:

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

description:

Open msr.

In parameter:

no

out parameter:

no

return value:

-1: fail

0: success

4.2.2 clsoe

function:

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

description:

Close msr.

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 pool

function:

```
public int pool (int timeout)
```

description:

Wait for magnetic stripe card swipe
data,receive data or timeout.

in parameter:

timeout – time out

out parameter:

no

return value:

0: success

-1: fail

-2: time out

-3: in parameters error

4.2.5 getTrackError

function:

```
public int getTrackError (int index)
```

description:

Query error occurred in the specified track swipe process.if return 0,it means the specified track data be correctly read.

in parameter:

index: 1 - track1

2 - track2

3 - track3

out parameter:

no

return value:

0: success

-1: fail

-2: time out

-3: in parameters error

4.2.6 getTrackDataLength

function:

```
public int getTrackDataLength (int index)
```

description:

query length of specified track.

in parameter:

index: 1 - track1

2 - track2

3 - track3

out parameter:

no

return value:

>0 : length of specified track

-1: fail

-2: time out

-3: in parameters error

4.2.7 getTrackData

function:

```
public int getTrackData (int index,byte[] dat)
```

description:

get data of specified trace.

in parameter:

index: 1 - track1

2 - track2

3 - track3

out parameter:

dat : track data stored in the buffer

return value:

0: success

-1: fail

-2: time out

-3: in parameters error