

SL110 SDK Guidance For Android

Version 1.0

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StrongLink

Contents

1、 Interface Introduction	3
2、 Interface Definitions	3
2.1、 IvrJackService	3
2.1.1 uid	3
2.1.2 open	3
2.1.3 close	3
2.1.4 readTag	3
2.1.5 getTagUID	3
2.1.6 tagAuthenticate(select sector)	4
2.1.7 tagReadData	4
2.1.8 tagReadBlockData	4
2.1.9 tagWriteData	4
2.1.10 returned value	4
2.2 IvrJackAdapter	4
2.2.1 onConnect	4
2.2.2 onDisconnect	5
2.2.3 onStatusChange	5
2.2.4 onStatusChange	错误！未定义书签。
2.3 IvrJackStatus	5
3、 Called procedures	5
3.1 Interface called	5
3.2 Operating tag	5

1、 Interface Introduction

IvrJack.jar supports interfaces for the platform of Android 2.1 or above. Major interfaces are as followings:

- a) IvrJackService — Communication Controlling Interface
- b) IvrJackAdapter — Event Interface
- c) IvrJackStatus — State

Attention: It is needed to add `<uses-permission`

`android:name="android.permission.RECORD_AUDIO"/>` in the project. Refer to the

event of IvrJackExample.

2、 Interface Definitions

2.1、 IvrJackService

2.1.1 uid

Definition: `public int uid = 0;`

Explanation: The UID of the tag.

2.1.2 open

Definition: `public void open(Context context, IvrJackAdapter adapter);`

Explanation: Start the server for the reader.

Parameter: a) `@param context` Activity instance.

b) `@param adapter` used for receiving event.

2.1.3 close

Definition: `public void close();`

Explanation: Close the server for elf reader.

2.1.4 readTag

Definition: `public int readTag ();`

Explanation: Open tag detection

Return: 0 represents success, else failure

2.1.5 getTagUID

Definition: `public int getTagUID ();`

Explanation: Get the UID of tag

Return: 0 represents success, else failure

2.1.6 tagAuthenticate(select sector)

Definition: public int tagAuthenticate(byte sector, byte[] pwds);

Explanation: Verify the key of sector

Parameter: a) sector: sector number

b) pwds: 6-byte key of the sector (Default:use key A)

Return: 0 represents success, else failure

2.1.7 tagReadData

Definition: public int tagReadData(byte block, byte[] data);

Explanation: Read the tag data

Parameter: a) block: the block number(0-3)

b) data :16-byte block data

Return: 0 represents success, else failure

2.1.8 tagReadBlockData

Definition: public int tagReadBlockData(byte sector1, byte block1, byte sector2, byte block2, byte[] pwds, byte[] data);

Explanation: Read the data of two blocks

Parameter: a) sector1: the sector number(0-31)

b) block1: the block number of the sector 1(0-3)

c) sector2: the sector number(0-31)

d) block2: the block number of the sector 2(0-3)

e) pwds: 6-byte key of the sector (Default:use key A)

f) data: data of the sectors

Return: 0 represents success, else failure

2.1.9 tagWriteData

Definition: public int tagWriteData(byte block, byte[] data);

Explanation: Write the tag data

Parameter: a) block: the block number(0-3)

b) data :16-byte data to be written (Default:use key A)

Return: 0 represents success, else failure

2.1.10 returned value

a) 0: success

b) 1: communication failure

c) 2: unknown error

d) -1: power insufficiency

2.2 IvrJackAdapter

2.2.1 onConnect

Definition: void onConnect(String deviceSN);

Explanation: Device connects successfully.

Parameter: a) deviceSN: the serial-number of device

2.2.2 onDisconnect

Definition: void onDisconnect();

Explanation: Trigger occurs when device disconnects

2.2.3 onStatusChange

Definition: void onStatusChange(IvrJackStatus status);

Explanation: The device state changes.

Parameter: a) status: the device state

2.3 IvrJackStatus

- a) ijsDetecting: Detecting device.
- b) ijsRecognized: Having detected device.
- c) ijsUnRecognized: No device detected.
- d) ijsPlugout: The device is plugged out.

3、 Calling procedures

3.1 Interface calling

- a) Copy IvrJack.jar to the project directory
- b) Include IvrJack.jar in the project directory
- c) Import the following classes when calling the class of Activity:

```
import com.xminnov.IvrJackAdapter;  
import com.xminnov.IvrJackService;  
import com.xminnov.IvrJackStatus;
```
- d) Realize the method in the interface of IvrJackAdapter (implements IvrJackAdapter)
- e) Create the class of IvrJackService.
- f) Others refer to examples.

3.2 Tag operation

- a) Call the method of readTag
- b) Call the method of getTagUID
- c) Call the method of tagAuthenticate(optional)

- d) Call the method of tagReadData(optional)
- e) Call the method of tagWriteData(optional)