

Interface Instructions

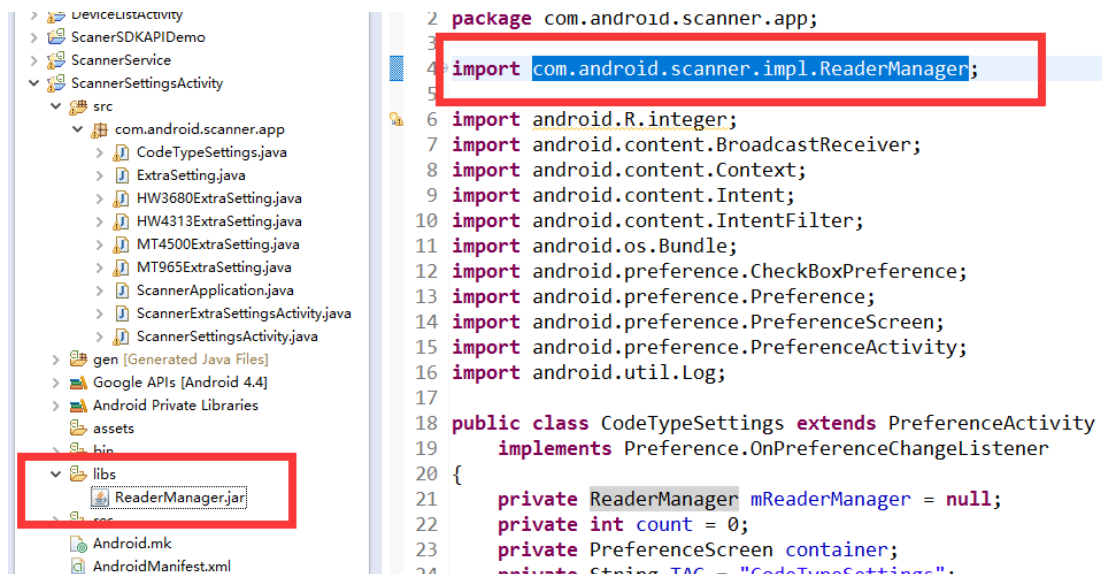
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Version:1.0

1.Import jar package to you project

Import **ReaderManager.jar** into your project, and In java file

import **com.android.scanner.impl.ReaderManager;**



2.Interface API

You can refer to the Demo program. in **Demo.zip**

getInstance //获取扫描头服务接口实例, 在所有接口中最早调用

purpose Creates ReaderManager instance before employing any APIs.

Syntax **ReaderManager getInstance();**

Example private ReaderManager mReaderManager = null;
mReaderManager = ReaderManager.getInstance();

return value Gets a ReaderManager instance if successful,else null.

Remarks As this is a function that gets reader modules ready,it must be called before any other functions.

Release //释放资源, 在确保不需要使用扫描头接口的情况下调用

purpose Release resources ,when you used finished it must be called.

syntax **void Release();**

Example mReaderManager.Release();

SetActive //使能扫描头

purpose enable to scan,if you want to scan and decode you must to **SetActive(true)** before

syntax **boolean SetActive(Boolean isE);**

Example boolean isEnabledOK = mReaderManager. SetActive (true);

Parameters isEnabledOK

false: disable

true: enable

Return value **false :** set failed

true: set successful

GetActive //获取扫描头是否使能

purpose get scan and decode state

syntax **boolean GetActive();**

Example boolean isEnabled = mReaderManager. GetActive ();

Return value **false :** scan and decode is disable, not work

true: scan and decode is enable

setScanMode //设置扫描头模式

purpose Toggle Scan mode

syntax **boolean setScanMode(int mode)**

Example

```
mReaderManager.setScanMode(ReaderManager.SE4500.ScanMode.Normal_Mode);
```

Parameters mode You can via ReaderManager.getScannerModel() to get scan module,then via scan module to get ScanMode class finally, via ScanMode class get mode.

```
public static class ScanMode
{
    public static final short Normal_Mode = 0;
    public static final short Presentation_Mode = 1;
    //public static final short Hardware_Continue_Mode = 4;
    public static final short Software_Continue_Mode = 5;
}
```

Return value **false :** set failed

true: Set Successful

getScanMode //获取当前扫描头所处的扫描模式

purpose get module scan mode

syntax **int getScanMode()**

Example int mode = mReaderManager. getScanMode ();

Return value **get the scan mode**

beginScanAndDeocde //扫描头开始扫描

purpose begin to scan and Decode bar

syntax **boolean beginScanAndDeocde()**

Example boolean isSuccessful = mReaderManager. beginScanAndDeocde ();

Return value **false** : failed
true: Successful

stopScanAndDecode() //扫描头停止扫描

purpose stop to scan and Decode bar

syntax **boolean stopScanAndDecode ()**

Example boolean isSuccessful =mReaderManager. stopScanAndDecode ();

Return value **false** : failed
true: Successful

getRenctDecodeType //获取最近一次扫描头扫描到的码制种类

purpose get scan and decode bar code type of the Last time

syntax **String getRenctDecodeType()**

Example String DecodeType = mReaderManager. getRenctDecodeType ();

Return value DecodeType the Last time Decoding bar code type, as below **but more than** :

"CODE39"、"UPCA"、"UPCE"、"EAN13"、"EAN8"、"D25"、"I25"、"CODABAR"、"CODE128"、
"CODE93"、"CODE11"、"MSI"、"UPCE1"、"GS1_DATABAR_14"、"GS1_DATABAR_LIMITED"、
"GS1_DATABAR_EXPANDED"、"C25"、"PDF417"、"EMUL_EAN128"、"UPDF417"、
"DATAMATRIX"、"QRCODE"、"MAXICODE"、"UQR_EN"、"AZTEC"、"QR_INVERSE" 、
"DATAMATRIX_INVERSE""RETRIEVE_LAST_DECODE"

getSupportCodeTypes //获取扫描头支持的码制种类

purpose get the symbol support code types

syntax **ArrayList<String> getSupportCodeTypes()**

Example ArrayList<String> mSupportCodeTypes = new ArrayList<String>();
mSupportCodeTypes = mReaderManager. getSupportCodeTypes ();

Return value mSupportCodeTypes get the support code types as below **but more than**
"CODE39"、"UPCA"、"UPCE"、"EAN13"、"EAN8"、"D25"、"I25"、"CODABAR"、"CODE128"、
"CODE93"、"CODE11"、"MSI"、"UPCE1"、"GS1_DATABAR_14"、"GS1_DATABAR_LIMITED"、
"GS1_DATABAR_EXPANDED"、"C25"、"PDF417"、"EMUL_EAN128"、"UPDF417"、
"DATAMATRIX"、"QRCODE"、"MAXICODE"、"UQR_EN"、"AZTEC"、"QR_INVERSE" 、
"DATAMATRIX_INVERSE""RETRIEVE_LAST_DECODE"

Or you can see module BarCodeType class.

```

public static class BarCodeType
{
    /*
    Name                                     Number      Min      Max      Default    */
    public static final short CODE39         = 0; //      0       1       1
    public static final short UPCA           = 1; //      0       1       1
    public static final short UPCE          = 2; //      0       1       1
    public static final short EAN13         = 3; //      0       1       1
    public static final short EAN8          = 4; //      0       1       1
    public static final short Trioptic_Code = 5; //      0       1       1
    public static final short INTERLEAVED_2_OF_5 = 6; //      0       1       1
    public static final short CODABAR       = 7; //      0       1       1
    public static final short CODE128      = 8; //      0       1       1
    public static final short CODE93       = 9; //      0       1       1
    public static final short CODE11       = 10; //     0       1       1
    public static final short MSI           = 11; //     0       1       1
    public static final short Plessey_Code = 12; //     0       1       1
    public static final short GSI_DATABAR_OMNIDIRECTIONAL = 13; //     0       1       1
    public static final short GSI_DATABAR_LIMITED = 14; //     0       1       1
    public static final short GSI_DATABAR_EXPANDED = 15; //     0       1       1
    public static final short NEC_2_OF_5    = 16; //     0       1       1
    public static final short HONG_KONG_2_OF_5 = 17; //     0       1       1
    public static final short MATRIX_2_OF_5 = 18; //     0       1       1
    public static final short ISBT_128     = 19; //     0       1       1
    public static final short GS1_128      = 20; //     0       1       1
    public static final short TELEPEN      = 21; //     0       1       1
}

```

getEnableCodeTypes //获取已经使能的码制种类

purpose get the enable code types

syntax **ArrayList<String> getEnableCodeTypes ()**

Example ArrayList<String> mEnableCodeTypes = new ArrayList<String>();
 mEnableCodeTypes = mReaderManager. getEnableCodeTypes ();

Return value mEnableCodeTypes get the enable code types as below

When use **enableAllCodeTypes** more than this

"CODE39"、"UPCA"、"UPCE"、"EAN13"、"EAN8"、"D25"、"I25"、"CODABAR"、"CODE128"、
 "CODE93"、"CODE11"、"MSI"、"UPCE1"、"GS1_DATABAR_14"、"GS1_DATABAR_LIMITED"、
 "GS1_DATABAR_EXPANDED"、"C25"、"PDF417"、"EMUL_EAN128"、"UPDF417"、
 "DATAMATRIX"、"QR CODE"、"MAXICODE"、"UQR_EN"、"AZTEC"、"QR_INVERSE" 、
 "DATAMATRIX_INVERSE""RETRIEVE_LAST_DECODE"

it is a subset of the getSupportCodeTypes return value

setCodeType//设置某个码制的使能与禁止

purpose set the enable code types

syntax **boolean setCodeType(String name,int isEn)**

Example boolean isSuccessful = mReaderManager. setCodeType ("UPCA", 1);

Parameters name code bar type name ,see **getSupportCodeTypes** return value

isEn 1 or 0 to enable or disable scan and decode
Return value **false** : set failed
true: Set Successful

setCodeTypeByCodeNumb //设置某个码制的使能与禁止

purpose set the enable code types

syntax **boolean setCodeTypeByCodeNumb (int codeType,int val)**

Example

```
mReaderManager.setCodeTypeByCodeNumb(ReaderManager.SE4500.BarCodeType.CODE128, 1);
```

Parameters **codeType** code bar type Numb ,see module BarCodeType class

val 1 or 0 to enable or disable scan and decode

Return value **false** : set failed
true: Set Successful

getCodeTypeEnable //获取某个码制是否使能

purpose get the code type enabled or disabled

syntax **int getCodeTypeEnable(String codename)**

Example **boolean isE = mReaderManager.getCodeTypeEnable ("UPCA");**

Parameters **codename** code bar type name ,see **getRenctDecodeType** return value

Return value **0** : the code type is disable
1: the code type is enable
-1 unknown

getCodeTypeEnableByCodeNumb //获取某个码制是否使能

purpose get the code type enabled or disabled

syntax **int getCodeTypeEnableByCodeNumb (int codeType)**

Example

```
ret = mReaderManager.getCodeTypeEnableByCodeNumb(ReaderManager.SE4500.BarCodeType.CODABAR);
```

Parameters **codeType** code bar type Numb ,see module BarCodeType class

Return value **0** : the code type is disable
1: the code type is enable

enableAllCodeTypes (some module support)//使能所有码制

purpose enable scan and decode all code types
syntax **boolean enableAllCodeTypes ()**
Example boolean isSuccessful = mReaderManager. enableAllCodeTypes ();
Return value **false :** set failed
true: Set Successful

disableAllCodeTypes (some module support)//禁止所有码制

purpose disable scan and decode all code types
syntax **boolean disableAllCodeTypes ()**
Example boolean isSuccessful = mReaderManager. disableAllCodeTypes ();
Return value **false :** set failed
true: Set Successful

enableAll1DCodeTypes (some module support)//使能所有一维

purpose enable scan and decode all 1D code types
syntax **boolean enableAll1DCodeTypes ()**
Example boolean isSuccessful = mReaderManager. EnableAll1DCodeTypes ();
Return value **false :** set failed
true: Set Successful

disableAll1DCodeTypes (some module support)//禁止所有一维

purpose disable scan and decode all 1D code types
syntax **boolean disableAll1DCodeTypes ()**
Example boolean isSuccessful = mReaderManager. DisableAll1DCodeTypes ();
Return value **false :** set failed
true: Set Successful

enableAll2DCodeTypes (some module support) //使能所有二维

purpose enable scan and decode all 2D code types
syntax **boolean enableAll2DCodeTypes ()**
Example boolean isSuccessful = mReaderManager. EnableAll2DCodeTypes ();
Return value **false :** set failed

true: Set Successful

disableAll2DCodeTypes (some module support) //禁止所有二维

purpose disable scan and decode all 2D code types
syntax **boolean disableAll2DCodeTypes ()**
Example boolean isSuccessful = mReaderManager. DisableAll2DCodeTypes ();
Return value **false :** set failed
true: Set Successful

setOutPutMode //设置输出模式

purpose to set the code output mode
syntax **void setOutPutMode(int mode)**
Example mReaderManager. setOutPutMode (2);
Parameters mode mode range of 0 to 2
0 Direct display the code
1 code change to Send virtual key
2 API

setEndCharMode //设置输出结尾字符

purpose to set the char of the end of code mode
syntax **void setEndCharMode(int mode)**
Example mReaderManager. setEndCharMode (2);
Parameters mode mode range of 0 to 2
0 the end of code add "\n"
1 the end of code add " "
2 the end of code add "\t"
3 NULL
4 OK

setSaveDecodeImage //设置是否保存图片（针对软件码扫描头）

purpose save Decode image yes or not
syntax **boolean setSaveDecodeImage(boolean b)**
Example boolean isSuccessful = mReaderManager. setSaveDecodeImage (true);
Parameters b save Decode image yes or not
true save Decode image yes
false not save Decode image
Return value **false :** set failed
true: Set Successful

isSaveDecodeImage //是否已经设置保存图片（针对软件码扫描头）

purpose	get status about save Decode image yes or not
syntax	boolean isSaveDecodeImage()
Example	boolean isE = mReaderManager. isSaveDecodeImage ();
Return value	isE save Decode image yes or not
	true save Decode image yes
	false not save Decode image

setPrefix //设置输出码值的前缀

purpose	add the Prefix string at the head of code
syntax	void setPrefix(String prefix)
Example	mReaderManager. setPrefix ("supoin");
Parameters	prefix add the prefix at the head of code

setPostfix //设置输出码值的后缀

purpose	add the Postfix string at the end of code
syntax	void setPostfix(String postfix)
Example	mReaderManager. setPrefix (".com");
Parameters	Postfix add the prefix at the end of code

turnOnorOffSound //打开或者关闭声音

purpose	turn on or off sound when scan decode
syntax	void turnOnorOffSound(boolean isOn)
Example	mReaderManager. turnOnorOffSound (true);
Parameters	isOn
	true turn on sound
	false turn off sound

turnOnorOffVibration//打开或者关闭震动

purpose	turn on or off vibration when scan decode
syntax	void turnOnorOffVibration(boolean isOn)
Example	mReaderManager. turnOnorOffVibration (true);
Parameters	isOn
	true turn on sound
	false turn off sound

setEnabledScankey(boolean isEnabled);//打开或者关闭扫描按键

purpose	enable or disable Scan key can to start scan when press key down
syntax	void setEnabledScankey(boolean isEnabled)
Example	mReaderManager. setEnabledScankey (true);
Parameters	isOn

true	enable Scan key can to start scan when press key down
false	disable Scan key can to start scan when press key down

getOutPutMode //获取输出模式

purpose	to get the code output mode
syntax	int getOutPutMode()
Example	int mode = mReaderManager. getOutPutMode ();
Return value	mode mode range of 0 to 2
	0 Direct display the code
	1 code change to Send virtual key
	2 API

getEndCharMode //获取码值输出结尾字符

purpose	to get the char of the end of code mode
syntax	int getEndCharMode()
Example	int mode = mReaderManager. getEndCharMode ();
Return value	mode mode range of 0 to 2
	0 the end of code add "\n"
	1 the end of code add " "
	2 the end of code add "\t"
	3 NULL

getPrefix//获取码值输出前缀

purpose	get the Prefix string at the head of code
syntax	String getPrefix()
Example	String prefix = mReaderManager. getPrefix ();
Return value	prefix get the prefix at the head of code

getPostfix//获取码值输出后缀

purpose	get the Postfix string at the end of code
syntax	String getPostfix()
Example	mReaderManager. setPrefix (".com");
Return value	Postfix get the prefix at the end of code

isSoundOn//是否已经使能扫描声音

purpose	get the sound state on or off
syntax	boolean isSoundOn()
Example	boolean isOn = mReaderManager. isSoundOn ();
Return value	isOn
	true sound is turn on
	false sound is turn off

isVibrationOn//是否已经使能扫描震动

purpose turn on or off vibration when scan decode

syntax **boolean isVibrationOn ()**

Example `boolean isOn = mReaderManager. isVibrationOn();`

Return value `isOn`

`true` sound is turn on

`false` sound is turn off

boolean isEnabledScankey();//是否已经打开扫描按键

purpose get the Scan key can to start scan enabled or disabled when press key

down

syntax **boolean isEnabledScankey()**

Example `boolean isOn = mReaderManager. isEnabledScankey ();`

Return value `isOn`

`true` Scan key can to start scan

`false` Scan key can not to start scan

resetInitScan (only HardWare Decode module support)//复位扫描设置（只针对硬解码有效）

purpose reset the scan module setting

syntax **boolean resetInitScan (boolean isOn)**

Example `boolean isok = mReaderManager. resetInitScan ();`

Return value `isok`

`true` reset successful

`false` reset failed

setSoftContinuesoftbetweenTime//设置连续扫描时间间隔

(when scan mode is Software_Continue_Mode can be effective)

purpose set between twice Decode time of Software_Continue_Mode

syntax **boolean setSoftContinuesoftbetweenTime(int time)**

Example

`boolean isok = mReaderManager. setSoftContinuesoftbetweenTime(1000);`

 Its means is 1 seconds

Parameters `time` between time milliseconds

Return value `isok`

`true` set successful

false set failed

getSoftContinuesoftbetweenTime//获取连续扫描时间间隔

purpose get between twice Decode time of Software_Continue_Mode

syntax **int getSoftContinuesoftbetweenTime()**

Example

```
int time = mReaderManager. getSoftContinuesoftbetweenTime();
```

Its means is 1 seconds

Return value time get between time XX milliseconds of Software_Continue_Mode

SetRedundancyLevel //设置码值扫描冗余和安全等级

purpose set the level of Redundancy

syntax **boolean setRedundancyLevel (int level)**

Example boolean isSetSuccessful = mReaderManager. setRedundancyLevel (3);

Parameters level the level of Redundancy,default 1, ,range of 1 to 4

1 Redundancy Level 1

2 Redundancy Level 2

3 Redundancy Level 3

4 Redundancy Level 4

Return value **false :** set failed

true: Set Successful

getRedundancyLevel//获取码制扫描安全等级

purpose get the level of Redundancy

syntax **int getRedundancyLevel ()**

Example int level = mReaderManager. getRedundancyLevel ();

Return value level (1-4) get the level of Redundancy

Redundancy Level 1

Redundancy Level 2

Redundancy Level 3

Redundancy Level 4

setTransmitCode //设置码制输出格式

purpose A Code ID character identifies the code type of a scanned bar code This is useful when the decoder is decoding more than one code type. In addition to any single character prefix already selected, the Code ID character is inserted between the prefix

and the decoded symbol.

syntax	boolean setTransmitCode(int mode)
Example	boolean isSuccessful = mReaderManager. setTransmitCode (2);
Parameters	mode mode range of 0 to 2
	0 Select no Code ID character
	1 AIM Code ID character.
	2 Symbol Code ID character
Return value	false : set failed
	true: Set Successful

getTransmitCode //获取码制输出格式

purpose	get the mode ,A Code ID character identifies the code type
syntax	int getTransmitCode()
Example	int mode = mReaderManager. getTransmitCode ();
Return value	mode mode range of 0 to 2
	0 Select no Code ID character
	1 AIM Code ID character.
	2 Symbol Code ID character

setStatusBarExpansion //使能或者禁止下拉菜单

purpose	set StatusBar state
syntax	setStatusBarExpansion (boolean isE)
Parameters	isE
	true enable StatusBar
	false disable StatusBar

扫描数据是以广播形式发出：

广播名: "com.android.server.scannerservice.broadcast"

接受码值数据字段: "scannerdata"

接受码制类型数据字段: "codetype"

Example:

```
if(action.equals("com.android.server.scannerservice.broadcast"))
{
    String codeTypeNameString = intent.getStringExtra("codetype");
    String codeValue = intent.getStringExtra("scannerdata");
```

```
codeinfo.setText("Code Type:"+codeTypeNameString+"  
"+"Code:"+codeValue);  
}
```