Scan SDK User Guidance

Version：　V1.2.0

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Version	Date	RD	Remakes
V1.0.0	20190731	Eastson	Android 9.0
V1.1.0	20191012	Eastson	Discard the following interfaces 2.38 setKeyboardMode 2.39 getKeyboardMode
V1.2.0	20201025	Eastson	Add setRightKey setLeftKey

1.Preface

This document serves as the instruction document for the scan SDK interface and is provided to the scan APK developers. This document is organized and released by the R & D department and cannot be spread without authorization. This document corresponds to the SDK version. It will be updated with the SDK version. Please scan APK developers to pay attention to the version number correspondence between the SDK and the guidance document.

2. Corresponding interface description

The application gets the scansmanager object first

public static final String SCANS_SERVICE = "scans";

private ScansManager mScansManager = null;

mScansManager = (ScansManager)mContext.getSystemService(SCANS_SERVICE);

The default system setting is

1. Power on the scanning module
2. Set vibration alarm, sound alarm and LED alarm
3. Turn off continuous mode
4. Reporting mode is direct input mode
5. No added string
6. No prefix, no suffix, no filter string
7. UTF-8 encoding mode

The interface of ScansManager is as follows

2.1 openScan

Interface specification：

Power on the scanning module

Interface prototype：

public int openScan(boolean open)

Parameter description：

boolean open Open state，

Set to true to power on the scanning module, and set to false to power off the module

Return value description：

Return 1 means the call is successful, return 0 means the call is failed

Note: unless APK needs control module power supply, the interface APK does not need to be called, and the system will automatically control the scanning module power supply

2.2 isOpenScan

Interface specification：

Get power on status of scanning module

Interface prototype：

public boolean isOpenScan()

Parameter description：

none

Return value description：

Return true to indicate that the current module is powered on, and return false to indicate that the current module is powered on

2.3 startScan

Interface specification：

Start Scanning

Interface prototype：

public int startScan()

Parameter description：

none

Return value description：

Return 1 to indicate that the scan was successfully opened, and 0 to indicate that the scan failed to be opened

Note: unless APK needs to trigger scanning by soft key or other means, it does not need this interface. The scanning physical key of the machine can trigger scanning

2.4 stopScan()

Interface specification：

Stop scanning

Interface prototype：

public int stopScan ()

Parameter description：

none

Return value description：

Return 1 indicates that scanning is stopped successfully, and return 0 indicates that scanning is stopped failed

Note: unless APK needs to trigger scanning by soft key or other means, it does not need this interface. The scanning physical key of the machine can trigger scanning

2.5 setInputMode

Interface specification：

Set scan data reporting mode

Interface prototype：

public void setInputMode(int mode)

Parameter description：

int mode reporting mode

0 Broadcast mode -- data will be reported by broadcast

1 Direct input mode--text box where data is directly input to the current focus

2 Keyboard mode, data is input to the current focus text box in the way of analog keyboard input

3 Single input mode, if the previous data is same, will not be reported

Return value description：

none

If it is set to broadcast mode,
please receive android.scanservice.action.UPLOAD_BARCODE_DATA action. The data is in the extra name barcode carried by the broadcast
Eg：

```
IntentFilter filter = new IntentFilter();
filter.addAction("android.scanservice.action.UPLOAD_BARCODE_DATA");
MyReceiver broadcastReceiver = new MyReceiver();
registerReceiver(broadcastReceiver, filter);
…
intent.getStringExtra("barcode")
```

2.6 getInputMode

Interface specification：

Get current scan data reporting mode

Interface prototype：

public int getInputMode()

Parameter description：

none

Return value description：

0 Broadcast mode -- data will be reported by broadcast

1 Direct input mode--text box where data is directly input to the current focus

2 Keyboard mode, data is input to the current focus text box in the way of analog keyboard input

3 Single input mode, if the previous data is same, will not be reported

2.7 setDecodeTipVibrator

Interface specification：

Set current scanning vibration reminder

Interface prototype：

public void setDecodeTipVibrator(boolean isopen)

Parameter description：

boolean isopen

true Turn on vibration alert

false Turn off vibration alert

Return value description：

none

2.8 getDecodeTipVibrator

Interface specification：

Get the current scanning vibration alert status

Interface prototype：

public boolean getDecodeTipVibrator()

Parameter description：

none

Return value description：

true Vibration alert is currently on

false Vibration alert is currently off

2.9 setDecodeTipAudio

Interface specification：

Set current scan sound alert

Interface prototype：

public void setDecodeTipAudio(boolean isopen)

Parameter description：

boolean isopen

true Turn on sound alert

false Turn off sound alert

Return value description：

none

2.10 getDecodeTipAudio

Interface specification：

Get the current scan sound alert status

Interface prototype：

public boolean getDecodeTipAudio ()

Parameter description：

none

Return value description：

true Turn on sound alert

false Turn off sound alert

2.11 setLedNotify

Interface specification：

Set current scan led alert

Interface prototype：

public void setLedNotify(boolean ledMode)

Parameter description：

boolean ledMode

true Turn on LED alert

false Turn off LED alert

Return value description：

none

2.12 getLedNotify

Interface specification：

Get current scan led alert status

Interface prototype：

public boolean getLedNotify()

Parameter description：

none

Return value description：

true Led alert is currently on

false Led alert is currently off

2.13 setPersistMode

Interface specification：

Set current scan persist mode

Interface prototype：

public void setPersistMode(boolean mode)

Parameter description：

boolean mode

true Turn on persist mode

false Turn off persist mode

Return value description：

none

2.14 getPersistMode

Interface specification：

Get current scan duration mode status

Interface prototype：

public boolean getPersistMode()

Parameter description：

none

Return value description：

true Turn on persist mode

false Turn off persist mode

2.15 setExtras

Interface specification：

Set attachment content of current scan data

Interface prototype：

public void setExtras(int extra)

Parameter description：

int extra

0 none

1 Enter

2 TAB

Return value description：

none

2.16 getExtras

Interface specification：

Get attachment content of current scan data

Interface prototype：

public int getExtras()

Parameter description：

none

Return value description：

0 none
1 Enter
2 TAB

2.17 setDecodeEncode

Interface specification：

Set the encoding method of current scan data

Interface prototype：

public void setDecodeEncode(int encode)

Parameter description：

int encode
0 UTF-8
1 ASCII
2 GBK
3 GB2312
4 GB19030
5 UTF-16
6 ISO-8859-1

Return value description：

none

2.18 getDecodeEncode

Interface specification：

Get the current scanning data encoding method

Interface prototype：

public int getDecodeEncode()

Parameter description：

none

Return value description：

0 UTF-8
1 ASCII
2 GBK
3 GB2312
4 GB19030
5 UTF-16
6 ISO-8859-1

2.19 setPrefix

Interface specification：

Set current scan data prefix

Interface prototype：

public void setPrefix(String mPrefix)

Parameter description：

String mPrefix
Prefix string to add

Return value description：

none

2.20 getPrefix

Interface specification：

Get current scan add data prefix string

Interface prototype：

public String getPrefix()

Parameter description：

none

Return value description：

Current Prefix string

2.21 setSuffix

Interface specification：

Set current scan add data Suffix string

Interface prototype：

public void setSuffix(String mSuffix)

Parameter description：

String mSuffix

Suffix string to add

Return value description：

none

2.22 getSuffix()

Interface specification：

Get current scan add data Suffix string

Interface prototype：

public String getSuffix ()

Parameter description：

none

Return value description：

Current Suffix string

2.23 setFilter

Interface specification：

Set current scan data filter string

Interface prototype：

public void setFilter(String mFilter)

Parameter description：

String mFilter

String to filter

Return value description：

none

2.24 getFilter()

Interface specification：

Gets the string which filtering of the current scan data

Interface prototype：

public String getFilter()

Parameter description：

none

Return value description：

Filter string

2.25 setCtpKeypadSwitch

Interface specification：

Touch screen key switch settings

Interface prototype：

public void setCtpKeypadSwitch(boolean isEnable)

Parameter description：

boolean isEnable

true	Turn on touch keypad report
false	Turn off touch keypad report

Return value description：

none

2.26 getCtpKeypadSwitch

Interface specification：

Get touch screen key switch settings

Interface prototype：

public boolean getCtpKeypadSwitch()

Parameter description：

none

Return value description：

true	Turn on key report
false	Turn off key report

2.27 setCtpAreaTouch

Interface specification：

Set touch screen area

Interface prototype：

public void setCtpAreaTouch(boolean isEnable, int startX, int startY, int endX, int endY)

Parameter description：

boolean isEnable	Touch screen area control switch
int startX	Touchable start X coordinate
int startY	Touchable start Y coordinate
int endX	Touchable end X coordinate
int endY	Touchable end Y coordinate

Return value description：

none

2.28 getCtpAreaTouch

Interface specification：

Get touch screen area information

Interface prototype：

public HashMap getCtpAreaTouch()

Parameter description：

none

Return value description：

HashMap	touch screen area information

2.29 SetBroacastName

Interface specification：

Set broadcast name

Interface prototype：

public void SetBroacastName(String broacastName)

Parameter description：

String broacastName	broadcast name

Return value description：

none

2.30 setAllowInstallApk

Interface specification：

Set whether to allow APK installation

Interface prototype：

public void setAllowInstallApk(boolean allow)

Parameter description：

boolean allow

true allow APK installation

false Disable APK installation

Return value description：

none

2.31 isAllowInstallApk

Interface specification：

Query whether APK installation is allowed

Interface prototype：

public boolean isAllowInstallApk()

Parameter description：

Return value description：

true allow APK installation

false Disable APK installation

2.32 setAllowStatusDrop

Interface specification：

Set whether to allow status bar drop-down

Interface prototype：

public void setAllowStatusDrop(boolean allow)

Parameter description：

boolean allow

true	Allow status bar drop-down
false	Disable status bar drop-down

Return value description：

none

2.33 isAllowStatusDrop

Interface specification：

Query status bar drop-down settings

Interface prototype：

public boolean isAllowStatusDrop()

Parameter description：

Return value description：

true	Allow status bar drop-down
false	Disable status bar drop-down

2.34 setQuictStartAppPackageName

Interface specification：

Set quick start APK package name

Interface prototype：

public void setQuictStartAppPackageName(String packagename)

Parameter description：

String packagename quick start APK package name

Return value description：

none

2.35 getQuictStartAppPackageName

Interface specification：

Get quick start APK package name

Interface prototype：

public String getQuictStartAppPackageName()

Parameter description：

none

Return value description：

quick start APK package name

2.36 setFnMode

Interface specification：

Set quick start key mode

Interface prototype：

public void setFnMode(int mode)

Parameter description：

int mode

0 none

1 quick start apk

Return value description：

none

2.37 getFnMode

Interface specification：

Get the current quick start key mode

Interface prototype：

public int getFnMode()

Parameter description：

none

Return value description：

0 none

1 quick start apk

2.38 setKeyboardMode

Interface specification：

Set keyboard mode

Interface prototype：

public void setKeyboardMode(int mode)

Parameter description：

int mode

1 Soft keyboard

2 Hard keyboard

Return value description：

None

Note: the interface is abandoned in 1.1.0

2.39 getKeyboardMode

Interface specification：

Get keyboard mode

Interface prototype：

public int getKeyboardMode ()

Parameter description：

none

Return value description：

1	Soft keyboard
2	Hard keyboard

Note: the interface is abandoned in 1.1.0

2.40 checkApplicationLicenseKey

Interface specification：

Application safety inspection

Interface prototype：

public boolean checkApplicationLicenseKey(String licensekey)

Parameter description：

String licensekey	License key provided to customers

Return value description：

True	pass
False	illegal

2.41 setLeftKey

Interface specification：

Set left scan key to rfid key

Interface prototype：

```
public void setLeftKey(int keycode)
```

Parameter description：

int keycode only use *ScansManager.LKSCAN_LINUX_KEYCODE or ScansManager.LEFTSCAN_LINUX_KECODE*

Return value description：

void

2.42 setRightKey

Interface specification：

Set right scan key to rfid key

Interface prototype：

```
public void setRightKey(int keycode)
```

Parameter description：

int keycode only use *ScansManager.LKSCAN_LINUX_KEYCODE or ScansManager.RIGHTSCAN_LINUX_KECODE*

Return value description：

void