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Package com.zcs.sdk.fingerprint

Interface Summary

Interface Description

FingerprintListener A callback that notifies fingerprint operation

Class Summary

Class Description

FingerprintManager

FingerResult

Result

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DETAIL: ENUM CONSTANTS | FIELD | METHOD

ALL CLASSES

SUMMARY: NESTED | ENUM CONSTANTS | FIELD | METHOD

com.zcs.sdk.pin.pinpad

Enum PinKeyboardViewModeEnum

java.lang.Object

java.lang.Enum<PinKeyboardViewModeEnum> com.zcs.sdk.pin.pinpad.PinKeyboardViewModeEnum

All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable<PinKeyboardViewModeEnum>

public enum PinKeyboardViewModeEnum extends java. I ang. Enum<Pi nKeyboardVi ewModeEnum>

Enum Constant Summary

Enum Constants

Enum Constant and Description

DEFAULT

Default, display input view

NO_I NPUTVI EW

No default input view, must set custom

Method Summary

All Methods Static Methods	Concrete Methods
Modifier and Type	Method and Description
static PinKeyboardViewModeEnu	walueOf(j ava. I ang. String name) Returns the enum constant of this type with the specified name.
static PinKeyboardViewModeEnu	m[] values() Returns an array containing the constants of this enum type, in the order they are declared.

Methods inherited from class java.lang.Enum

compareTo, equals, getDeclaringClass, hashCode, name, ordinal, toString, valueOf

Methods inherited from class java.lang.Object

getClass, notify, notifyAll, wait, wait, wait

Enum Constant Detail

DEFAULT

public static final PinKeyboardViewModeEnum DEFAULT
Default, display input view

NO_INPUTVIEW

public static final PinKeyboardViewModeEnum NO_INPUTVIEW
No default input view, must set custom

Method Detail

valueOf

public static PinKeyboardViewModeEnum valueOf(j ava. lang. String name)
Returns the enum constant of this type with the specified name. The string must match exactly an identifier used to declare an enum constant in this type. (Extraneous whitespace characters are not permitted.)

Parameters:

name - the name of the enum constant to be returned.

Returns:

the enum constant with the specified name

Throws:

java.lang.lllegalArgumentException - if this enum type has no constant with the specified name

java.lang.NullPointerException - if the argument is null

values

public static PinKeyboardViewModeEnum[] values()

Returns an array containing the constants of this enum type, in the order they are declared. This method may be used to iterate over the constants as follows:

for (PinKeyboardViewModeEnum c : PinKeyboardViewModeEnum.values())

System. out. pri ntl n(c);

Returns:

an array containing the constants of this enum type, in the order they are declared

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Hierarchy For Package com.zcs.sdk.pin.pinpad

Package Hierarchies:

All Packages

Class Hierarchy

- java.lang.Object
 - android.content.Context
 - android.content.ContextWrapper
 - android.view.ContextThemeWrapper
 - android.app.Activity (implements android.content.ComponentCallbacks2, android.view.KeyEvent.Callback, android.view.LayoutInflater.Factory2, android.view.View.OnCreateContextMenuListener, android.view.Window.Callback)
 - com.zcs.sdk.pin.pinpad.PinPadPasswordActivity
 - com.zcs.sdk.pin.pinpad.PinPadManager

Interface Hierarchy

• com.zcs.sdk.pin.pinpad.PinPadManager.OnPinPadInputListener

Enum Hierarchy

- java.lang.Object
 - java.lang.Enum<E> (implements java.lang.Comparable<T>, java.io.Serializable)
 - com.zcs.sdk.pin.pinpad.PinKeyboardViewModeEnum

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com zcs sdk exterant

Classes

ExternalCardManager ICCard

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Package com.zcs.sdk.card

Class Summary

Class	Description
CardInfoEntity	Card info entity
CardReaderManager	
ICCard	
IDCard	
MagCard	
RfCard	
SLE4428Card	
SLF4442Card	

Enum Summary

3	
Enum	Description
CardReaderTypeEnu	1
CardSlotNoEnum	
MagEncryptTypeEnu	1
RfCardTypeEnum	

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Package com.zcs.sdk

Interface S	Summary
-------------	---------

Interface Description

Sys.UpdateListener Interface definition for a callback to be invoked when firmware is update

Class Summary

Class	Description
Beeper	
DriverManager	
Led	
Printer	
SdkData	
SdkResult	
Sys	

Enum Summary

Enum	Description
ConnectTypeEnum	
LedLightModeEnum	The enum of led light type

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

com.zcs.sdk.card

Class RfCard

java.lang.Object com.zcs.sdk.card.RfCard

public class RfCard extends java.lang.Object

Method Summary

All Methods Inst	ance Methods Concrete Methods
Modifier and Type	Method and Description
int	getIDCardUid(byte[] typeData)
int	<pre>getRfCardType(byte[] typeData) Get rf card type</pre>
int	m1ChangeKey(byte block, byte keyType, byte[] newKey) Change the M1 card key
int	m1ReadBlock(byte block, byte[] outDate) Read M1 card block
int	m1VerifyKey(byte block, byte keyType, byte[] key) Verify card key for M1 card
int	m1WirteBlock(byte block, byte[] inputDate) Write M1 card block
int	mFPIusCommitPerso() LO L1 L3
int	mFPIusCommitPerso(byte leval, byte[] key) L1 L2
int	mFPIusFirstAuthen(byte[] adress, byte[] key) L3
int	mFPIusL3Read(byte[] adress, byte len, byte[] outData) L3
int	mFPIusL3Write(byte[] adress, byte len, byte[] inputData) L3

int	mFPIusWritePerso(byte[] adress) LO ()
int	mFSetFelicaTime(int outTime)
int	rfCardMoveCard()
i nt	rfCardPowerDown() Power off
int	rfCardPowerOn() Power on
byte[]	rfExchangeAPDU(byte[] sendData) Send apud command
int	<pre>rfExchangeAPDU(byte[] sendData, byte[] recei veData, int[] recei veLength) Send apud command</pre>
int	rfReset() Rf card reset
int	<pre>rfReset(byte[] resetData, int[] dataLength) Rf card reset</pre>
i nt	<pre>rfSearchCard(byte rfCardType, byte[] outCardType, byte[] uid) Search card</pre>
voi d	setCardType(bool ean i shave)

Methods inherited from class java.lang.Object

 $\hbox{equals, getClass, hashCode, notify, notifyAll, toString, wait, wait,}\\$

Method Detail

getIDCardUid

public int getIDCardUid(byte[] typeData)

getRfCardType

public int getRfCardType(byte[] typeData)

Get rf card type

```
Parameters:
     typeData -
Returns:
m1ChangeKey
public int m1ChangeKey(byte block,
                        byte keyType,
                        byte[] newKey)
Change the M1 card key
Parameters:
     block - block number, 0 ~ 3
     keyType - key type. 0x00: A, 0x01: B
     newKey - new key to set
Returns:
m1ReadBlock
public int m1ReadBlock(byte block,
                        byte[] outDate)
Read M1 card block
Parameters:
     block - block number, 0 ~ 3
     outDate - block data
Returns:
m1VerifyKey
public int m1VerifyKey(byte block,
                        byte keyType,
                        byte[] key)
Verify card key for M1 card
Parameters:
     block - block number, 0 ~ 3
     keyType - key type. 0x00: A, 0x01: B
     key - key
```

Returns:

m1WirteBlock

mFPlusCommitPerso

```
public int mFPlusCommitPerso()
L0 L1 L3
Returns:
```

mFPlusCommitPerso

mFPlusFirstAuthen

mFPlusL3Read

```
Parameters:
    adress - 0x0000--0x007f: 0-31, 4 0x0080--0x00ff: 32-39 16
    len -
    outData - 16 16 2*16
Returns:
mFPlusL3Write
public int mFPlusL3Write(byte[] adress,
                       byte Ien,
                       byte[] inputData)
L3
Parameters:
    adress - 0x0000--0x007f: 0-31 , 4 0x0080--0x00ff: 32-39 16
    len - 16
    inputData -
Returns:
mFPlusWritePerso
public int mFPlusWritePerso(byte[] adress)
LO ( )
Parameters:
              0x9000 // 0x9001 // 0x9002 // L2 0x9003 // L3
    adress -
Returns:
mFSetFelicaTime
public int mFSetFelicaTime(int outTime)
Returns:
rfCardMoveCard
public int rfCardMoveCard()
rfCardPowerDown
public int rfCardPowerDown()
Power off
```

```
Returns:
rfCardPowerOn
public int rfCardPowerOn()
Power on
Returns:
rfExchangeAPDU
public byte[] rfExchangeAPDU(byte[] sendData)
Send apud command
Parameters:
     sendData - the data to send
Returns:
     The apdu response. It will return null if send failed
rfExchangeAPDU
public int rfExchangeAPDU(byte[] sendData,
                           byte[] receiveData,
                           int[] receiveLength)
Send apud command
Parameters:
     sendData - the data to send
     recei veData - the recei ved data
     receiveLength - the length of received data
Returns:
rfReset
public int rfReset()
Rf card reset
Returns:
rfReset
public int rfReset(byte[] resetData,
                    int[] dataLength)
```

Rf card reset

Parameters:

resetData - reset info data

dataLength - the length of reset info data

Returns:

rfSearchCard

public int rfSearchCard(byte rfCardType,

byte[] outCardType,

byte[] ui d)

Search card

Parameters:

rfCardType - rf card type. SdkData.RF_TYPE_A, SdkData.RF_TYPE_B, SdkData. RF_TYPE_FELI CA

outCardType - rf card type. It can only be distinguished as SdkData.RF_TYPE_A or SdkData.RF_TYPE_B,

uid - card uid

setCardType

public void setCardType(boolean ishave)

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR |

METHOD

BitmapUtils occurences:

- com.zcs.sdk.util.BitmapUtilscom.zcs.sdk.util.BitmapUtils.BitmapUtils()

PrnStrFormat occurences:

- com.zcs.sdk.print.PrnStrFormatcom.zcs.sdk.print.PrnStrFormat.PrnStrFormat()

SdkResult occurences:

- com.zcs.sdk.SdkResult
- com.zcs.sdk.SdkResult.SdkResult()

changeKey occurences:

- com.zcs.sdk.card.SLE4428Card.changeKey(byte[])com.zcs.sdk.card.SLE4442Card.changeKey(byte[])

closeInputPin occurences:

- com.zcs.sdk.bluetooth.emv.BluetoothHandler.closeInputPin()com.zcs.sdk.pin.pinpad.PinPadManager.closeInputPin()

connect occurences:

- com.zcs.sdk.bluetooth.BluetoothManager.connect(BluetoothDevice)com.zcs.sdk.usb.UsbHandler.connect()

encodeDES occurences:

- com.zcs.sdk.util.MessageDigestUtils.encodeDES(String, String)com.zcs.sdk.util.MessageDigestUtils.encodeDES(byte[], byte[])

getCardNo occurences:

- com.zcs.sdk.bluetooth.emv.BluetoothHandler.getCardNo()com.zcs.sdk.card.CardInfoEntity.getCardNo()

getTimeout occurences:

- com.zcs.sdk.usb.UsbHandler.getTimeout()com.zcs.sdk.usb.UsbReader.getTimeout()

icCardReset occurences:

- com.zcs.sdk.card.ICCard.icCardReset(CardSlotNoEnum)
- com.zcs.sdk.card.lCCard.icCardReset(CardSlotNoEnum, byte[], int[])
- com.zcs.sdk.exteranl.ICCard.icCardReset(byte, byte[], int[])
 com.zcs.sdk.exteranl.ICCard.icCardReset(byte)

init occurences:

- com.zcs.sdk.bluetooth.BluetoothManager.init()
- com.zcs.sdk.card.SLE4428Card.init()
- com.zcs.sdk.card.SLE442Card.init()
 com.zcs.sdk.fingerprint.FingerprintManager.init()
 com.zcs.sdk.usb.UsbHandler.init()

recv occurences:

- com.zcs.sdk.bluetooth.BluetoothManager.recv(int)com.zcs.sdk.usb.UsbHandler.recv(int)

rfReset occurences:

- com.zcs.sdk.card.RfCard.rfReset()com.zcs.sdk.card.RfCard.rfReset(byte[], int[])

setRetryCount occurences:

- com.zcs.sdk.bluetooth.BluetoothManager.setRetryCount(int)com.zcs.sdk.usb.UsbHandler.setRetryCount(int)

updateFirmware occurences:

- com.zcs.sdk.Sys.updateFirmware(InputStream, Sys.UpdateListener)
 com.zcs.sdk.Sys.updateFirmware(File, Sys.UpdateListener)
 com.zcs.sdk.exteranl.ExternalCardManager.updateFirmware(File, Sys.UpdateListener)
 com.zcs.sdk.exteranl.ExternalCardManager.updateFirmware(InputStream, Sys.UpdateListener)

values occurences:

- enum in com.zcs.sdk.ConnectTypeEnum.values()
- enum in com.zcs.sdk.LedLightModeEnum.values()
- enum in com.zcs.sdk.bluetooth.emv.CardDetectedEnum.values()
- enum in com.zcs.sdk.bluetooth.emv.EmvStatusEnum.values()
- enum in com.zcs.sdk.bluetooth.emv.NFCCardType.values()
- enum in com.zcs.sdk.card.CardReaderTypeEnumvalues()
- enum in com.zcs.sdk.card.CardSlotNoEnum.values()
- enum in com.zcs.sdk.card.MagEncryptTypeEnum.values()
- enum in com.zcs.sdk.card.RfCardTypeEnum.values()
- enum in com.zcs.sdk.pin.MagEncryptTypeEnum.values()
- enum in com.zcs.sdk.pin.PinAlgorithmMode.values()
- enum in com.zcs.sdk.pin.PinAlgorithmModeEnum.values()
- enum in com.zcs.sdk.pin.PinEncryptTypeEnum.values()
- enum in com.zcs.sdk.pin.PinMacTypeEnum.values()
- enum in com.zcs.sdk.pin.PinWorkKeyTypeEnumvalues()
- enum in com.zcs.sdk.pin.pinpad.PinKeyboardViewModeEnum.values()
- enum in com.zcs.sdk.print.PrnAlignTypeEnum.values()
- enum in com.zcs.sdk.print.PrnFontSizeTypeEnum.values()
- enum in com.zcs.sdk.print.PrnSpeedTypeEnum.values()
- enum in com.zcs.sdk.print.PrnTextFontvalues()
- enum in com.zcs.sdk.print.PrnTextStyle.values()

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ALL CLASSES

SUMMARY: NESTED | ENUM CONSTANTS | FIELD | METHOD

DETAIL: ENUM CONSTANTS | FIELD | METHOD

com.zcs.sdk.print

Enum PrnTextStyle

java.lang.Object java.lang.Enum<PrnTextStyle> com.zcs.sdk.print.PrnTextStyle

All Implemented Interfaces:

java.io. Serializable, java.lang. Comparable<PrnTextStyle>

public enum PrnTextStyle extends java. I ang. Enum<PrnTextStyle> The enum of print text style

Enum Constant Summary

Enum Constants

Enum Constant and Description

BOLD

BOLD_I TALI C

ITALIC

NORMAL

Method Summary

All Methods	Static N	Methods	Concrete Methods	
Modifier and Ty	pe pe	Method ar	nd Description	
static PrnTex	tStyl e	•	java. I ang. Stri ng name he enum constant of this	e) s type with the specified name.
static PrnTex	tStyle[]	Returns a	n array containing the c y are declared.	constants of this enum type, in the

Methods inherited from class java.lang.Enum

compareTo, equals, getDeclaringClass, hashCode, name, ordinal, toString, valueOf

Methods inherited from class java.lang.Object

getClass, notify, notifyAll, wait, wait, wait

Enum Constant Detail

BOLD

public static final PrnTextStyle BOLD

BOLD_ITALIC

public static final PrnTextStyle BOLD_ITALIC

ITALIC.

public static final PrnTextStyle ITALIC

NORMAL

public static final PrnTextStyle NORMAL

Method Detail

valueOf

public static PrnTextStyle valueOf(j ava.lang.String name)

Returns the enum constant of this type with the specified name. The string must match *exactly* an identifier used to declare an enum constant in this type. (Extraneous whitespace characters are not permitted.)

Parameters:

name - the name of the enum constant to be returned.

Returns:

the enum constant with the specified name

Throws:

java. lang. Illegal Argument Exception - if this enum type has no constant with the specified name

java.lang.NullPointerException - if the argument is null

values

public static PrnTextStyle[] values()

Returns an array containing the constants of this enum type, in the order they are declared. This method may be used to iterate over the constants as follows:

for (PrnTextStyle c : PrnTextStyle.values()) System. out. println(c);

Returns:

an array containing the constants of this enum type, in the order they are decl ared

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SUMMARY: NESTED | ENUM CONSTANTS | FIELD | METHOD DETAIL: ENUM CONSTANTS | FIELD | METHOD

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

com.zcs.sdk

Class Beeper

java.lang.Object com.zcs.sdk.Beeper

public class Beeper extends java.lang.Object

Method Summary

All Methods	Instance Methods		Concrete Methods
Modifier and Ty	rpe Method	and Desc	cription
int		nt timeou , the defau	ut) ult frequency is 3000
int	int beep(int free Set buzzer		ency, int beepTime)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Method Detail

beep

public int beep(int timeout)

Buzzer, the default frequency is 3000

Parameters:

timeout - The duration of buzzing

Returns:

SdkResul t

beep

public int beep(int frequency, int beepTime)

Set buzzer

Parameters:

frequency - The frequency setting can be 500~8000, minimum frequency 500, maximum frequency 8000, other values are invalid

beepTime - The duration of buzzing

Returns:

SdkResul t

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR |

METHOD

This file was created by javadoc2chm.

Tento soubor byl vytvo en pomocíjavadoc2chm.

All Classes

Beeper

BitmapUtils

BluetoothHandler

BluetoothListener

BluetoothManager

CardDetectedEnum

CardInfoEntity

CardReaderManager

CardReaderTypeEnum

CardSlotNoEnum

ConnectTypeEnum

DriverManager

EmvStatusEnum

ExternalCardManager

FingerprintListener

FingerprintManager

FingerResult

ICCard

ICCard

IDCard

Led

LedLightModeEnum

LogUtils

MagCard

MagEncryptTypeEnum

MagEncryptTypeEnum

MessageDigestUtils

NFCCardType

OnBluetoothEmvListener

OnSearchAndRecvListener

OnSearchCardListener

Pin Algorithm Mode

PinAlgorithmModeEnum

PinEncryptTypeEnum

PinKeyboardViewModeEnum

PinMacTypeEnum

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PinPadManager. OnPinPadInputListener

PinPadPasswordActivity

PinWorkKeyTypeEnum

Printer

PrnAlignTypeEnum

PrnFontSizeTypeEnum

PrnSpeedTypeEnum

PrnStrFormat

PrnTextFont

PrnTextStyle

Result

RfCard

Rf Card Type Enum

SdkData

SdkResult

SLE4428Card

SLE4442Card

StringUtils

Sys

Sys. UpdateListener

USBConstants

UsbHandler

UsbReader

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR |

METHOD

com.zcs.sdk.card

Class IDCard

java.lang.Object com.zcs.sdk.card.IDCard

public class IDCard extends java. I ang. Object

Method Summary

All Methods	Instance Methods	Concrete I	Methods	
Modifier and Ty	ре		Method and Description	
com. i vsi gn. and	droi d. I DCReader. User	Read ID care decoding lib	ord info 1.import ID card image brary: libwltdecode.so 2.the breeds to be placed in the	
com. i vsi gn. and	droi d. I DCReader. User	I DCardI nfo	getIDInfo() Read ID car	java. Lang. String path) d info
int			halt()	
i nt			powerOff()	
int			powerOn()	
int			readData(b	yte[] outData)
int			reset()	

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Method Detail

getIDInfo

public com.ivsign.android.IDCReader.UserIDCardInfo getIDInfo()

Read ID card info 1.import ID card image decoding library: libwltdecode.so 2.the folder wltlib

needs to be placed in the sdcard root path Returns: User ID card info getIDInfo public com. ivsign. android. IDCReader. UserIDCardInfo getIDInfo(java. lang. String path) Read ID card info Parameters: path - the full path for ID card image decoding library Returns: User ID card info halt public int halt() powerOff public int powerOff() powerOn public int powerOn() readData public int readData(byte[] outData) reset public int reset()

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

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Hierarchy For Package com.zcs.sdk.util

Package Hierarchies:

All Packages

Class Hierarchy

- java.lang.Object
 - com.zcs.sdk.util.BitmapUtils
 - com.zcs.sdk.util.LogUtils
 - com.zcs.sdk.util.MessageDigestUtils
 - com.zcs.sdk.util.StringUtils

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ABCDEFGHILMNOPRSTUVW

Т

t(String, String) - Static method in class com.zcs.sdk.util.LogUtils

TDES_CBC - Static variable in class com.zcs.sdk.util.MessageDigestUtils

TDES_ECB - Static variable in class com.zcs.sdk.util.MessageDigestUtils

TEMPLATE_IS_EMPTY - Static variable in class com.zcs.sdk.fingerprint.FingerResult

TEMPLATE_NUM_ERROR - Static variable in class com.zcs.sdk.fingerprint.FingerResult

TEMPLATE_TRANSFER_INVALID - Static variable in class com.zcs.sdk.fingerprint.FingerResult

toString() - Method in enum com.zcs.sdk.print.PrnTextFont

trace(String) - Static method in class com.zcs.sdk.util.LogUtils

TRANSFER_ERROR - Static variable in class com.zcs.sdk.fingerprint.FingerResult

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SUMMARY: NESTED | ENUM CONSTANTS | FIELD | METHOD

DETAIL: ENUM CONSTANTS | FIELD | METHOD

com.zcs.sdk.pin

Enum PinWorkKeyTypeEnum

java.lang.Object

java.lang.Enum < PinWorkKeyTypeEnum> com.zcs.sdk.pin.PinWorkKeyTypeEnum

All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable<PinWorkKeyTypeEnum>

public enum PinWorkKeyTypeEnum extends java. lang. Enum<PinWorkKeyTypeEnum>

Enum Constant Summary

Enum Constants

Enum Constant and Description

MAC_KEY

ORTHER

PI N_KEY

TDKEY

Method Summary

All Methods	Static Methods	Instance Methods	Concrete Methods	
Modifier and Type		lethod and Description		
byte	g	getType()		
static PinWorkKeyTypeEnum		val ue0f(j ava. I ang. Stri Returns the enum constar name.	ng name) nt of this type with the sp	ecified
static PinWorkKeyTypeEnum[]		•	ng the constants of this e e declared.	num

Methods inherited from class java.lang.Enum

compareTo, equals, getDeclaringClass, hashCode, name, ordinal, toString, valueOf

Methods inherited from class java.lang.Object

getClass, notify, notifyAll, wait, wait, wait

Enum Constant Detail

MAC_KEY

public static final PinWorkKeyTypeEnum MAC_KEY

ORTHER

public static final PinWorkKeyTypeEnum ORTHER

PIN_KEY

public static final PinWorkKeyTypeEnum PIN_KEY

TDKEY

public static final PinWorkKeyTypeEnum TDKEY

Method Detail

getType

public byte getType()

valueOf

public static PinWorkKeyTypeEnum valueOf(java.lang.String name)

Returns the enum constant of this type with the specified name. The string must match *exactly* an identifier used to declare an enum constant in this type. (Extraneous whitespace characters are not permitted.)

Parameters:

name - the name of the enum constant to be returned.

Returns:

the enum constant with the specified name

Throws:

java.lang.lllegalArgumentException - if this enum type has no constant with the specified name

java.lang.NullPointerException - if the argument is null

values

public static PinWorkKeyTypeEnum[] values()

Returns an array containing the constants of this enum type, in the order they are declared. This method may be used to iterate over the constants as follows:

for (PinWorkKeyTypeEnum c : PinWorkKeyTypeEnum.values())
 System.out.println(c);

Returns:

an array containing the constants of this enum type, in the order they are declared

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SUMMARY: NESTED | ENUM CONSTANTS | FIELD | METHOD DETAIL: ENUM CONSTANTS | FIELD | METHOD

com.zcs.sdk.print

Classes

PrnStrFormat

Enums

PrnAlignTypeEnum PrnFontSizeTypeEnum PrnSpeedTypeEnum PrnTextFont PrnTextStyle OVERVIEW PACKAGE CLASS TREE

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Ε

e(String, String) - Static method in class com.zcs.sdk.util.LogUtils

EMPTY_TEMPLATE_FAILED - Static variable in class com.zcs.sdk.fingerprint.FingerResult

emv(CardReaderTypeEnum, int, String, int) - Method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler

Specify the amount to execute the emv transaction emv(CardReaderTypeEnum, int, int) - Method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler

emvListener - Static variable in class com.zcs.sdk.bluetooth.BluetoothManager

EmvStatusEnum - Enum in com.zcs.sdk.bluetooth.emv

encodeDES(String, String) - Static method in class com.zcs.sdk.util.MessageDigestUtils Convert a plain text string to DES string

encodeDES(byte[], byte[]) - Static method in class com.zcs.sdk.util.MessageDigestUtils Convert a plain text bytes to DES bytes

encode MD5(String) - Static method in class com.zcs.sdk.util. Message DigestUtils

Convert a plain text string to MD5 string

encodePin(String, String, String) - Static method in class com.zcs.sdk.util.MessageDigestUtils

encodeTripleDES(String, String) - Static method in class com.zcs.sdk.util.MessageDigestUtils

 $encode Triple DES (byte[],\ byte[]) - Static\ method\ in\ class\ com.zcs.sdk.util. Message Digest Utils$

encodeTripleDES(int, String, String) - Static method in class com.zcs.sdk.util.MessageDigestUtils

 $encode Triple DES (int,\ byte[],\ byte[]) - Static\ method\ in\ class\ com.zcs.sdk.util. \\ Message Digest Utils$

ENCROLL_FAILED - Static variable in class com.zcs.sdk.fingerprint.FingerResult

 $enrollment () - Method\ in\ class\ com.zcs.sdk. fingerprint. Fingerprint Manager$

Enroll fingerprint and storage in internal storage.

enrollment(int) - Method in class com.zcs.sdk.fingerprint.FingerprintManager

Enroll fingerprint and storage in internal storage.

enrollment(int, int) - Method in class com.zcs.sdk.fingerprint.FingerprintManager

Enroll fingerprint and storage in internal storage.

enrollment(int, int, int) - Method in class com.zcs.sdk.fingerprint.FingerprintManager Enroll fingerprint.

error - Variable in class com.zcs.sdk.fingerprint.Result

error(String) - Static method in class com.zcs.sdk.util.LogUtils

ExternalCardManager - Class in com.zcs.sdk.exteranl

 $external PortRcv(int[],\ byte[])\ -\ Method\ in\ class\ com.zcs.sdk. Sys$

Gets data from an external serial port.

externalPortSend(int, byte[]) - Method in class com.zcs.sdk.Sys

Send data to an external serial port

PREV LETTER NEXT LETTER FRAMES NO FRAMES ALL CLASSES

com.zcs.sdk.pin.pinpad

Interfaces

PinPadManager.OnPinPadInputListener

Classes

PinPadManager PinPadPasswordActivity

Enums

PinKeyboardViewModeEnum

OVERVIEW PACKAGE CLASS TREE INDEX

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | ENUM CONSTANTS | FIELD | METHOD DETAIL: ENUM CONSTANTS | FIELD | METHOD

com.zcs.sdk.print

Enum PrnAlignTypeEnum

java.lang.Object

java.lang.Enum<PrnAlignTypeEnum> com.zcs.sdk.print.PrnAlignTypeEnum

All Implemented Interfaces:

java.io. Serializable, java.lang. Comparable<PrnAlignTypeEnum>

public enum PrnAlignTypeEnum
extends java.lang.Enum<PrnAlignTypeEnum>

Enum Constant Summary

Enum Constants

Enum Constant and Description

ALI GN_CENTER

Align center

ALI GN_LEFT

Align left

ALI GN_RI GHT

Align right

Method Summary

All Methods Static Me	thods	Instance Methods	Concrete Methods	
Modifier and Type	Meth	od and Description		
byte	getT	ype()		
static PrnAlignTypeEnum		e0f(j ava. I ang. Stri ng rns the enum constant c e.	name) of this type with the specified	
static PrnAlignTypeEnum[]			the constants of this enum typed.	oe,

Methods inherited from class java.lang.Enum

compareTo, equals, getDeclaringClass, hashCode, name, ordinal, toString, valueOf

Methods inherited from class java.lang.Object

getClass, notify, notifyAll, wait, wait, wait

Enum Constant Detail

ALIGN_CENTER

public static final PrnAlignTypeEnum ALIGN_CENTER
Align center

ALIGN_LEFT

public static final PrnAlignTypeEnum ALIGN_LEFT
Align left

ALIGN_RIGHT

public static final PrnAlignTypeEnum ALIGN_RIGHT
Align right

Method Detail

getType

public byte getType()

valueOf

public static PrnAlignTypeEnum valueOf(java.lang.String name)

Returns the enum constant of this type with the specified name. The string must match *exactly* an identifier used to declare an enum constant in this type. (Extraneous whitespace characters are not permitted.)

Parameters:

name - the name of the enum constant to be returned.

Returns:

the enum constant with the specified name

Throws:

java.lang.lllegalArgumentException - if this enum type has no constant with the specified name

java.lang.NullPointerException - if the argument is null

values

public static PrnAlignTypeEnum[] values()

Returns an array containing the constants of this enum type, in the order they are declared. This method may be used to iterate over the constants as follows:

for (PrnAlignTypeEnum c : PrnAlignTypeEnum.values())
 System.out.println(c);

Returns:

an array containing the constants of this enum type, in the order they are declared

OVERVIEW PACKAGE CLASS TREE INDEX

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | ENUM CONSTANTS | FIELD | METHOD DETAIL: ENUM CONSTANTS | FIELD | METHOD

OVERVIEW PACKAGE CLASS TREE INDEX

PREV CLASS NEXT CLASS

FRAMES NO FRAMES

ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

com.zcs.sdk.fingerprint

Class FingerResult

java.lang.Object

com.zcs.sdk.fingerprint.FingerResult

public final class FingerResult extends j ava. l ang. Object

Field Summary

Fields	
Modifier and Type	Field and Description
static int	CHECK_VALUE_ERROR
static int	DELETE_TEMPLATE_FAI LED
static int	DRY_AND_LI GHT_I MAGE
static int	EMPTY_TEMPLATE_FAI LED
static int	ENCROLL_FAI LED
static int	FAI LD_EXTRACT_MI NI TI AE
static int	FEATURE_MERGE_FAI LED
static int	FINGER_ID_OUT_OF_BOUND
static int	FLASH_OPT_FAI LED
static int	GET_I MAGE_TI MEOUT
static int	I DENTI FY_NOT_FI ND
static int	I NVALI D_REGI STER_NUM
static int	MESSY_I MAGE
static int	NO_FI NGER_DETECTED
static int	NO_PERMI SSI ON
static int	NO_SUPPORTED_CMD
static int	NO_TEMPLATE_I D
static int	NO_VALI D_I AMGE
static int	RECV_REMAI N_DATA_ERROR
static int	REGI STER_SETTI NG_ERROR_NUM

static int	RESULT_OK
static int	TEMPLATE_I S_EMPTY
static int	TEMPLATE_NUM_ERROR
static int	TEMPLATE_TRANSFER_I NVALI D
static int	TRANSFER_ERROR
static int	UNKNOWN_ERROR
static int	UPLOAD_FETURE_FAI LED
static int	VERI FY_NOT_MATCH
static int	WET_AND_SLOPPY_I MAGE
static int	WRONG_LOCATI ON_ERROR
static int	WRONG_OPT_SEQUENCE

Constructor Summary

Constructors

Constructor and Description

Fi ngerResul t()

Method Summary

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

CHECK_VALUE_ERROR

public static final int CHECK_VALUE_ERROR

See Also:

Constant Field Values

DELETE_TEMPLATE_FAILED

public static final int DELETE_TEMPLATE_FAILED

See Also:

Constant Field Values

DRY_AND_LIGHT_IMAGE

public static final int DRY_AND_LIGHT_IMAGE

See Also:

Constant Field Values

EMPTY_TEMPLATE_FAILED

public static final int EMPTY_TEMPLATE_FAILED

See Also:

Constant Field Values

ENCROLL_FAILED

public static final int ENCROLL_FAILED

See Also:

Constant Field Values

FAILD_EXTRACT_MINITIAE

public static final int FAILD_EXTRACT_MINITIAE

See Also:

Constant Field Values

FEATURE_MERGE_FAILED

public static final int FEATURE_MERGE_FAILED

See Also:

Constant Field Values

FINGER_ID_OUT_OF_BOUND

public static final int FINGER_ID_OUT_OF_BOUND

Constant Field Values

FLASH_OPT_FAILED

public static final int FLASH_OPT_FAILED

See Also:

Constant Field Values

GET_IMAGE_TIMEOUT

public static final int GET_IMAGE_TIMEOUT

See Also:

Constant Field Values

IDENTIFY_NOT_FIND

public static final int IDENTIFY_NOT_FIND

See Also:

Constant Field Values

INVALID_REGISTER_NUM

public static final int INVALID_REGISTER_NUM

See Also:

Constant Field Values

MESSY_IMAGE

public static final int MESSY_IMAGE

See Also:

Constant Field Values

NO_FINGER_DETECTED

public static final int NO_FINGER_DETECTED

Constant Field Values

NO_PERMISSION

public static final int NO_PERMISSION

See Also:

Constant Field Values

NO_SUPPORTED_CMD

public static final int NO_SUPPORTED_CMD

See Also:

Constant Field Values

NO_TEMPLATE_ID

public static final int NO_TEMPLATE_ID

See Also:

Constant Field Values

NO_VALID_IAMGE

public static final int NO_VALID_IAMGE

See Also:

Constant Field Values

RECV_REMAIN_DATA_ERROR

public static final int RECV_REMAIN_DATA_ERROR

See Also:

Constant Field Values

REGISTER_SETTING_ERROR_NUM

public static final int REGISTER_SETTING_ERROR_NUM

Constant Field Values

RESULT_OK

public static final int RESULT_OK

See Also:

Constant Field Values

TEMPLATE_IS_EMPTY

public static final int TEMPLATE_IS_EMPTY

See Also:

Constant Field Values

TEMPLATE_NUM_ERROR

public static final int TEMPLATE_NUM_ERROR

See Also:

Constant Field Values

TEMPLATE_TRANSFER_INVALID

public static final int TEMPLATE_TRANSFER_INVALID

See Also:

Constant Field Values

TRANSFER_ERROR

public static final int TRANSFER_ERROR

See Also:

Constant Field Values

UNKNOWN_ERROR

public static final int UNKNOWN_ERROR

Constant Field Values

UPLOAD_FETURE_FAILED

public static final int UPLOAD_FETURE_FAILED

See Also:

Constant Field Values

VERIFY_NOT_MATCH

public static final int VERIFY_NOT_MATCH

See Also:

Constant Field Values

WET_AND_SLOPPY_IMAGE

public static final int WET_AND_SLOPPY_IMAGE

See Also:

Constant Field Values

WRONG_LOCATION_ERROR

public static final int WRONG_LOCATION_ERROR

See Also:

Constant Field Values

WRONG_OPT_SEQUENCE

public static final int WRONG_OPT_SEQUENCE

See Also:

Constant Field Values

FingerResult

public FingerResult()

OVERVIEW PACKAGE CLASS TREE INDEX

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR |

METHOD

OVERVIEW PACKAGE CLASS TREE INDEX

PREV PACKAGE NEXT PACKAGE FRAMES NO FRAMES ALL CLASSES

Package com.zcs.sdk.exteranl

Class Summary

Class Description

ExternalCardManager

ICCard

OVERVIEW PACKAGE CLASS TREE INDEX

PREV PACKAGE NEXT PACKAGE FRAMES NO FRAMES ALL CLASSES

OVERVIEW PACKAGE

CLASS TREE INDEX

PREV CLASS NEXT CLASS

FRAMES NO FRAMES

ALL CLASSES

SUMMARY: NESTED | ENUM CONSTANTS | FIELD | METHOD

DETAIL: ENUM CONSTANTS | FIELD | METHOD

com.zcs.sdk.card

Enum MagEncryptTypeEnum

java.lang.Object

java.lang.Enum < MagEncryptTypeEnum > com.zcs.sdk.card.MagEncryptTypeEnum

All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable<MagEncryptTypeEnum>

public enum MagEncryptTypeEnum extends java. lang. Enum<MagEncryptTypeEnum>

Enum Constant Summary

Enum Constants

Enum Constant and Description

NOT_ENCRYPT

No encryption

UNI OONPAY_ENCRYPT

Unionpay encryption

Method Summary

All Methods	Static Methods	Instanc	ce Methods	Concrete Methods	
Modifier and Type		Method and	Description		
byte	!	getType()			
static MagEncryptTypeEnum		•	va. I ang. Stri enum constar	ng name) It of this type with the sp	pecified
static MagEncry		Returns an a	array containii order they are	ng the constants of this endeclared.	enum

Methods inherited from class java.lang.Enum

compareTo, equals, getDeclaringClass, hashCode, name, ordinal, toString, valueOf

Methods inherited from class java.lang.Object

getClass, notify, notifyAll, wait, wait, wait

Enum Constant Detail

NOT_ENCRYPT

public static final MagEncryptTypeEnum NOT_ENCRYPT
No encryption

UNIOONPAY_ENCRYPT

public static final MagEncryptTypeEnum UNIOONPAY_ENCRYPT Unionpay encryption

Method Detail

getType

public byte getType()

valueOf

public static MagEncryptTypeEnum valueOf(j ava. lang. String name)

Returns the enum constant of this type with the specified name. The string must match *exactly* an identifier used to declare an enum constant in this type. (Extraneous whitespace characters are not permitted.)

Parameters:

name - the name of the enum constant to be returned.

Returns:

the enum constant with the specified name

Throws:

java.lang.lllegalArgumentException - if this enum type has no constant with the specified name

java.lang.NullPointerException - if the argument is null

values

public static MagEncryptTypeEnum[] values()

Returns an array containing the constants of this enum type, in the order they are declared. This method may be used to iterate over the constants as follows:

for (MagEncryptTypeEnum c : MagEncryptTypeEnum.values()) System. out. println(c);

Returns:

an array containing the constants of this enum type, in the order they are decl ared

OVERVIEW PACKAGE CLASS

TREE INDEX

PREV CLASS NEXT CLASS

FRAMES NO FRAMES

ALL CLASSES

SUMMARY: NESTED | ENUM CONSTANTS | FIELD | METHOD DETAIL: ENUM CONSTANTS | FIELD | METHOD

OVERVIEW PACKAGE CLASS TREE INDEX

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

com.zcs.sdk.usb

Class UsbHandler

java.lang.Object com.zcs.sdk.usb.UsbHandler

public class UsbHandler extends java.lang.Object

Method Summary

All Methods Station	C Methods Instance Methods Concrete Methods
Modifier and Type	Method and Description
voi d	checkPermi ssi on() Check and request usb permission
voi d	close()
int	connect() connect to usb reader
j ava. I ang. Stri ng	getDataWi thCi pherCode(j ava. I ang. String ci pherCode) write commands to the reader, and return result
static UsbHandler	getInstance()
int	getRetryCount() Get the retry count for the function of getDataWithCipherCode.
int	<pre>getTi meout() Get the timeout value for the function of getDataWithCipherCode.</pre>
j ava. I ang. Stri ng	icExchangeAPDU(java.lang.String apdu)
UsbHandl er	init()
bool ean	isAutoConn()
bool ean	isConnected()
bool ean	isPrn()
voi d	onDestroy() stop all
j ava. I ang. Stri ng	recv(int overTime)
j ava. I ang. Stri ng	rfExchangeAPDU(java.lang.String apdu)

bool ean	send(j ava. l ang. String cmd)
voi d	setAutoConn(bool ean autoConn)
UsbHandl er	setContext(android.content.Context context)
voi d	setReadTimeOut(int timeout)
voi d	setRetryCount(int retryCount) Set the retry count for the function of getDataWithCipherCode
voi d	setTimeout(int timeout) Set the timeout value for the function of getDataWithCipherCode.

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Method Detail

checkPermission

public void checkPermission()
Check and request usb permission

close

public void close()

connect

public int connect()
connect to usb reader

Returns:

getDataWithCipherCode

public java. lang. String getDataWi thCipherCode(java. lang. String cipherCode) write commands to the reader, and return result

Parameters:

cipherCode - ,like:01 04

```
getInstance
public static UsbHandler getInstance()
getRetryCount
public int getRetryCount()
Get the retry count for the function of getDataWithCipherCode. default is 3
Returns:
     int
getTimeout
public int getTimeout()
Get the timeout value for the function of getDataWithCipherCode. default is 3s
Returns:
     int
icExchangeAPDU
public java.lang.String icExchangeAPDU(java.lang.String apdu)
init
public UsbHandler init()
isAutoConn
public boolean isAutoConn()
isConnected
public boolean isConnected()
isPrn
public boolean isPrn()
```

onDestroy

stop all

public void onDestroy()

recv

public java.lang.String recv(int overTime)

rfExchangeAPDU

public java.lang.String rfExchangeAPDU(java.lang.String apdu)

send

public boolean send(java.lang.String cmd)

setAutoConn

public void setAutoConn(boolean autoConn)

setContext

public UsbHandler setContext(android.content.Context context)

setReadTimeOut

public void setReadTimeOut(int timeout)

setRetryCount

public void setRetryCount(int retryCount)

Set the retry count for the function of getDataWithCipherCode

Parameters:

retryCount -

setTimeout

public void setTimeout(int timeout)

Set the timeout value for the function of getDataWithCipherCode.

Parameters:

timeout - the specified timeout, in seconds.

OVERVIEW PACKAGE CLASS TREE INDEX

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

OVERVIEW PACKAGE CLASS TREE INDEX

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | ENUM CONSTANTS | FIELD | METHOD DETAIL: ENUM CONSTANTS | FIELD | METHOD

com.zcs.sdk

Enum ConnectTypeEnum

java.lang.Object java.lang.Enum<ConnectTypeEnum> com.zcs.sdk.ConnectTypeEnum

All Implemented Interfaces:

java.io. Serializable, java.lang. Comparable<ConnectTypeEnum>

public enum ConnectTypeEnum
extends java.lang.Enum<ConnectTypeEnum>

Enum Constant Summary

Enum Constants

Enum Constant and Description

BLUETOOTH

COM

SPI

USB

Method Summary

All Methods	Static Met	hods	Instance Methods	Concrete Methods		
Modifier and Ty	'pe	Metho	d and Description			
byte		getType()				
static ConnectTypeEnum		valueOf(j ava. I ang. String name) Returns the enum constant of this type with the specified name.				
static ConnectTypeEnum[]		values() Returns an array containing the constants of this enum type, in the order they are declared.			m type, in	

Methods inherited from class java.lang.Enum

compareTo, equals, getDeclaringClass, hashCode, name, ordinal, toString, valueOf

Methods inherited from class java.lang.Object

getClass, notify, notifyAll, wait, wait, wait

Enum Constant Detail

BLUETOOTH

public static final ConnectTypeEnum BLUET00TH

COM

public static final ConnectTypeEnum COM

SPI

public static final ConnectTypeEnum SPI

USB

public static final ConnectTypeEnum USB

Method Detail

getType

public byte getType()

valueOf

public static ConnectTypeEnum valueOf(j ava. lang. String name)

Returns the enum constant of this type with the specified name. The string must match *exactly* an identifier used to declare an enum constant in this type. (Extraneous whitespace characters are not permitted.)

Parameters:

name - the name of the enum constant to be returned.

Returns:

the enum constant with the specified name

Throws:

java. lang. Illegal Argument Exception - if this enum type has no constant with the specified name

java.lang.NullPointerException - if the argument is null

values

public static ConnectTypeEnum[] values()

Returns an array containing the constants of this enum type, in the order they are declared. This method may be used to iterate over the constants as follows:

for (ConnectTypeEnum c : ConnectTypeEnum.values())
 System.out.println(c);

Returns:

an array containing the constants of this enum type, in the order they are declared

OVERVIEW PACKAGE CLASS TREE INDEX

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | ENUM CONSTANTS | FIELD | METHOD DETAIL: ENUM CONSTANTS | FIELD | METHOD

com.zcs.sdk.fingerprint

Interfaces

FingerprintListener

Classes

FingerprintManager FingerResult Result JavaScript is disabled on your browser.

OVERVIEW PACKAGE CLASS TREE

FRAMES NO FRAMES

PREV LETTER NEXT LETTER ALL CLASSES

ABCDEFGHILMNOPRSTUVW

L

LCDAmount(int) - Method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler Display amount in screen

LCDMainScreen() - Method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler Display home screen

LCDQRCodeShow(int, String) - Method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler Display QR code and amount in the device screen

Led - Class in com.zcs.sdk

LedLightModeEnum - Enum in com.zcs.sdk

The enum of led light type

LogUtils - Class in com.zcs.sdk.util

LogUtils() - Constructor for class com.zcs.sdk.util.LogUtils

ABCDEFGHILMNOPRSTUVW

OVERVIEW PACKAGE CLASS TREE INDEX

PREV LETTER NEXT LETTER

FRAMES NO FRAMES

ALL CLASSES

DriverManager occurences:

- com.zcs.sdk.DriverManagercom.zcs.sdk.DriverManager.DriverManager()

FingerResult occurences:

- com.zcs.sdk.fingerprint.FingerResultcom.zcs.sdk.fingerprint.FingerResult.FingerResult()

ICCard occurences:

- com.zcs.sdk.card.ICCard
- com.zcs.sdk.exteranl.ICCard

$MagEncrypt Type Enum\,occurences:$

- com.zcs.sdk.card.MagEncryptTypeEnumcom.zcs.sdk.pin.MagEncryptTypeEnum

UsbReader occurences:

- com.zcs.sdk.usb.UsbReader
- com.zcs.sdk.usb.UsbReader.UsbReader(UsbHandler, UsbEndpoint, UsbDeviceConnection)

authenticate occurences:

- com.zcs.sdk.fingerprint.FingerprintManager.authenticate(int)
 com.zcs.sdk.fingerprint.FingerprintManager.authenticate()
 com.zcs.sdk.fingerprint.FingerprintManager.authenticate(int, int)

cancelSearchCard occurences:

- com.zcs.sdk.bluetooth.emv.BluetoothHandler.cancelSearchCard()
- com.zcs.sdk.card.CardReaderManager.cancelSearchCard()
 com.zcs.sdk.exteranl.ExternalCardManager.cancelSearchCard()

$capture And Get Feature\ occurences:$

- com.zcs.sdk.fingerprint.FingerprintManager.captureAndGetFeature(int)com.zcs.sdk.fingerprint.FingerprintManager.captureAndGetFeature()

getIDInfo occurences:

- com.zcs.sdk.card.IDCard.getIDInfo(String)com.zcs.sdk.card.IDCard.getIDInfo()

getInstance occurences:

- com.zcs.sdk.DriverManager.getInstance()
- com.zcs.sdk.bluetooth.BluetoothManager.getInstance()
- com.zcs.sdk.bluetooth.emv.BluetoothHandler.getInstance(SmartPosJni)
- com.zcs.sdk.card.CardReaderManager.getInstance(SmartPosJni)
- com.zcs.sdk.exteranl.ExternalCardManager.getInstance(SmartPosJni)
- com.zcs.sdk.fingerprint.FingerprintManager.getInstance(SmartPosJni)
- com.zcs.sdk.pin.pinpad.PinPadManager.getInstance(SmartPosJni)
- com.zcs.sdk.usb.UsbHandler.getInstance()

$getRfCardType\ occurences:$

- com.zcs.sdk.card.CardInfoEntity.getRfCardType()com.zcs.sdk.card.RfCard.getRfCardType(byte[])

getTagValue occurences:

- com.zcs.sdk.bluetooth.emv.BluetoothHandler.getTagValue(String)
 com.zcs.sdk.bluetooth.emv.BluetoothHandler.getTagValue(byte[], byte[])

getType occurences:

- enum in com.zcs.sdk.ConnectTypeEnum.getType()
- enum in com.zcs.sdk.bluetooth.emv.NFCCardType.getType()
- enum in com.zcs.sdk.card.CardReaderTypeEnumgetType()
- enum in com.zcs.sdk.card.CardSlotNoEnum.getType()
- enum in com.zcs.sdk.card.MagEncryptTypeEnum.getType()
- enum in com.zcs.sdk.card.RfCardTypeEnum.getType()
- enum in com.zcs.sdk.pin.MagEncryptTypeEnum.getType()
- enum in com.zcs.sdk.pin.PinEncryptTypeEnum.getType()
- enum in com.zcs.sdk.pin.PinMacTypeEnum.getType()
- enum in com.zcs.sdk.pin.PinWorkKeyTypeEnumgetType()
- enum in com.zcs.sdk.print.PrnAlignTypeEnum.getType()
- enum in com.zcs.sdk.print.PrnFontSizeTypeEnumgetType()
- enum in com.zcs.sdk.print.PrnSpeedTypeEnum.getType()

icExchangeAPDU occurences:

- com.zcs.sdk.bluetooth.BluetoothManager.icExchangeAPDU(String)
- com.zcs.sdk.card.ICCard.icExchangeAPDU(CardSlotNoEnum, byte[])
- com.zcs.sdk.card.ICCard.icExchangeAPDU(CardSlotNoEnum, byte[], byte[], int[])
- com.zcs.sdk.exteranl.ICCard.icExchangeAPDU(byte, byte[])
- com.zcs.sdk.exteranl.ICCard.icExchangeAPDU(byte, byte[], byte[], int[])
- com.zcs.sdk.usb.UsbHandler.icExchangeAPDU(String)

isConnected occurences:

- com.zcs.sdk.bluetooth.BluetoothManager.isConnected()com.zcs.sdk.usb.UsbHandler.isConnected()

onError occurences:

- interface in com.zcs.sdk.Sys.UpdateListener.onError(int, String)
- interface in com.zcs.sdk.listener.OnSearchAndRecvListener.onError(int)
- interface in com.zcs.sdk.listener.OnSearchCardListener.onError(int)
 interface in com.zcs.sdk.pin.pinpad.PinPadManager.OnPinPadInputListener.onError(int)

onNoCard occurences:

- interface in com.zcs.sdk.listener.OnSearchAndRecvListener.onNoCard(CardReaderTypeEnum, boolean)
- interface in com.zcs.sdk.listener.OnSearchCardListener.onNoCard(CardReaderTypeEnum, boolean)

readData occurences:

- com.zcs.sdk.card.IDCard.readData(byte[])
 com.zcs.sdk.card.SLE4428Card.readData(int, int, byte[])
 com.zcs.sdk.card.SLE4442Card.readData(byte, byte, byte[])

rfExchangeAPDU occurences:

- com.zcs.sdk.bluetooth.BluetoothManager.rfExchangeAPDU(String)
- com.zcs.sdk.card.RfCard.rfExchangeAPDU(byte[])
- com.zcs.sdk.card.RfCard.rfExchangeAPDU(byte[], byte[], int[])
 com.zcs.sdk.usb.UsbHandler.rfExchangeAPDU(String)

searchCardAndRecv occurences:

- com.zcs.sdk.card.CardReaderManager.searchCardAndRecv(CardReaderTypeEnum, int, byte, OnSearchAndRecvListener)
- com.zcs.sdk.card.CardReaderManager.searchCardAndRecv(CardReaderTypeEnum, int, OnSearchAndRecvListener)

setContext occurences:

- com.zcs.sdk.bluetooth.BluetoothManager.setContext(Context)com.zcs.sdk.usb.UsbHandler.setContext(Context)

verifyKey occurences:

- com.zcs.sdk.card.SLE4428Card.verifyKey(byte[])com.zcs.sdk.card.SLE4442Card.verifyKey(byte[])

JavaScript is disabled on your browser.

OVERVIEW PACKAGE CLASS TREE INDEX

PREV CLASS NEXT CLASS FRAMES NO FRAMES **ALL CLASSES**

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

METHOD

com.zcs.sdk.pin.pinpad

Class PinPadManager

java.lang.Object com.zcs.sdk.pin.pinpad.PinPadManager

public class PinPadManager extends j ava. I ang. Obj ect

Nested Class Summary

Nested Classes

Modifier and Type Class and Description

static interface Pi nPadManager. OnPi nPadI nputLi stener

Method Summary

All Methods	Static Methods	Instance Methods	Concrete Methods
Modifier and Typ	oe Method and	d Description	
i nt	cancel I np	utPi n()	
i nt	cl osel npu	tPi n()	
static PinPadM	anager getInstan	ce(com. zcs. base. Smar	tPosJni smartPOsJni1)
int	· ·	• •	cardNo, byte keyIndex, timeOut, byte[] pinBloc
voi d	byte minLo boolean i PinPadMan	i nePi n(androi d. conte ength, byte maxLengt sBypass, ager. OnPi nPadI nputLi out offline pin	h, int timeOut,
voi d	byte minLe boolean is PinAlgori PinPadMana	nePin(android.conten ength, byte maxLengt sBypass, java.lang.S thmMode pinMode, ager.OnPinPadInputLi out online pin(using 3de	h, int timeOut, tring cardNo, byte keyIr stener callback)

voi d	<pre>inputOnlinePinByDukpt(android.content.Context context, byte minLength, byte maxLength, int timeOut, boolean isBypass, java.lang.String cardNo, byte keyIndex, PinAl gorithmMode pinMode, PinPadManager.OnPinPadInputListener callback, byte[] ksn) Start to input online pin.</pre>
int	<pre>pedOffineCiperPin(CardSlotNoEnum slotNoEnum, byte[] random, byte[] publicKey, byte publicKeyLength, byte[] respond)</pre>
int	<pre>pedOffi nePl ai ntextPi n(CardSl otNoEnum sl otNoEnum, byte[] respond)</pre>
int	<pre>pinPadEncryptData(int keyld, PinWorkKeyTypeEnum workType, byte[] inputData, int inputDataLength, byte[] outData) Use work key to encrypt</pre>
int	<pre>pi nPadEncryptDataByDukpt(int keyIndex, Pi nWorkKeyTypeEnum workType, byte[] inputData, int inputDataLength, byte[] outData, byte[] ksn) Use DUKPT algorithm to encrypt data</pre>
int	<pre>pi nPadEncryptTrackData(int keyIndex, MagEncryptTypeEnum magType, byte[] trackData, byte trackDataLength, byte[] outData) Encrypt track data using the 3des/des algorithm</pre>
int	<pre>pi nPadGetRandom(byte[] random) Get random</pre>
int	<pre>pinPadMac(int keyIndex, PinMacTypeEnum macType, byte[] inputData, int inputDataLength, byte[] outData) MAC</pre>
int	<pre>pi nPadMacByDukpt(i nt keyI ndex, Pi nMacTypeEnum macType, byte[] i nputData, i nt i nputDataLength, byte[] outData, byte[] ksn) Use DUKPT algorithm to get MAC</pre>
int	pinPadSetAl gori thmMode(PinAl gori thmModeEnum al gori thmMode)
int	<pre>pi nPadSM4Encrypt(byte mode, byte[] pucFactor, byte[] outData)</pre>
int	<pre>pi nPadUpDukpt(i nt keyI ndex, byte[] keyData, byte keyLength, byte[] ksn) Download the DUKPT algorithm key</pre>
int	pi nPadUpEncryptedMastKey(i nt keyI ndex, byte[] keyData, byte keyLength, byte decKeyI ndex) Download the encrypted master key
int	<pre>pi nPadUpEncryptKey(i nt keyI ndex, byte[] keyData, byte keyDataLength, Pi nEncryptTypeEnum transType)</pre>

int	<pre>pi nPadUpMastKey(i nt keyI ndex, byte[] keyData, byte keyLength) Download the plaintext master key</pre>
i nt	<pre>pi nPadUpPI ai nWorkKey(i nt keyIndex, byte[] mai nKey, byte[] pi nKeyData, byte[] macKeyData, byte[] tdkData) Download the encrypted work key(pin key, mac key, tdk).</pre>
int	<pre>pi nPadUpWorkKey(int keyIndex, byte[] pi nKeyData, byte pi nKeyLength, byte[] macKeyData, byte macKeyLength, byte[] tdk, byte tdkLength) Download the encrypted work key(pin key, mac key, tdk).</pre>
int	readPi nKeyVal ue(byte[] key)
voi d	setEdi tTextVi ew(androi d. wi dget. Edi tText edi tText) Set custom password input view
voi d	setInputOffPinTitle(j ava. I ang. String payTitle) Set the title for offline keyboard inputOfflinePin(android.content.Context, byte, byte, int, bool ean, com. zcs. sdk. pin. pinpad. PinPadManager. OnPinPadInputListener)
voi d	setInputPinTitle(java.lang.String payTitle) Set the title for random keyboard inputOnlinePin(android.content.Context, byte, byte, int, boolean, java.lang.String, byte, com.zcs.sdk.pin.PinAlgorithmMode, com.zcs.sdk.pin.pinpad.PinPadManager.OnPinPadInputListener)
voi d	setKeyBoardVi ewMode(Pi nKeyboardVi ewModeEnum keyModeEnum) Set the visible mode for the input view
int	startInputPin(byte minLength, byte maxLength, int timeOut, boolean isBypass)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait

Method Detail

cancelInputPin

public int cancelInputPin()

closeInputPin

public int closeInputPin()

getInstance

public static PinPadManager getInstance(com. zcs. base. SmartPosJni smartPOsJni 1)

getPinBlock

inputOfflinePin

Start to input offline pin

Parameters:

```
context - android environment context
minLength - min length of the pin(>=4)
maxLength - max length of the pin(<=12)
timeOut - timeout for waiting to input, the unit is second
isBypass - if true allow to input empty password
callback - the pin input notification listener</pre>
```

inputOnlinePin

```
Parameters:

context - android environment context

minLength - min length of the pin(>=4)

maxLength - max length of the pin(<=12)

timeOut - timeout for waiting to input, the unit is second isBypass - if true allow to input empty password cardNo - card number

keyIndex - key index, 0x00~0x0F

pinMode - 0x00: ANSI X9.8, 0x01: ANSI X3.92

callback - the pin input notification listener
```

inputOnlinePinByDukpt

Start to input online pin. The encryption algorithm is dukpt

Parameters:

```
context - android environment context
minLength - min length of the pin(>=4)
maxLength - max length of the pin(<=12)
timeOut - timeout for waiting to input, the unit is second
isBypass - if true allow to input empty password
cardNo - card number
keyIndex - key index, 0x00~0x09
pinMode - 0x00: ANSI X9.8, 0x01: ANSI X3.92
callback - the pin input notification listener
ksn - 10 bytes key serial number</pre>
```

```
public int pedOffineCiperPin(CardSlotNoEnum slotNoEnum,
                             byte[] random,
                             byte[] publicKey,
                             byte publicKeyLength,
                             byte[] respond)
```

pedOffinePlaintextPin

```
public int pedOffinePlaintextPin(CardSlotNoEnum slotNoEnum,
                                 byte[] respond)
```

pinPadEncryptData

```
public int pinPadEncryptData(int keyld,
                              PinWorkKeyTypeEnum workType,
                              byte[] inputData,
                              int inputDataLength,
                              byte[] outData)
```

Use work key to encrypt

Parameters:

```
keyld - key index
    workType - work key type
    inputData - data to be encrypted
    inputDataLength - Length of data to be encrypted
    outData - Encrypted return data
Returns:
```

pinPadEncryptDataByDukpt

```
public int pinPadEncryptDataByDukpt(int keyIndex,
                                     PinWorkKeyTypeEnum workType,
                                     byte[] inputData,
                                     int inputDataLength,
                                     byte[] outData,
                                     byte[] ksn)
```

Use DUKPT algorithm to encrypt data

Parameters:

```
keyIndex - key index, 0x00~0x09
workType - work key type
inputData - data to be encrypted
inputDataLength - Length of data to be encrypted
outData - result data
ksn - 10 bytes key serial number
```

```
Returns:
pinPadEncryptTrackData
public int pinPadEncryptTrackData(int keyIndex,
                                   MagEncryptTypeEnum magType,
                                   byte[] trackData,
                                   byte trackDataLength,
                                   byte[] outData)
Encrypt track data using the 3des/des algorithm
Parameters:
     keyIndex - key index, 0x00~0x0F
     magType - Track data encryption format
     trackData - Track data to be encrypted
     trackDataLength - Length of track data to be encrypted
     outData - Encrypted return data
Returns:
pinPadGetRandom
public int pinPadGetRandom(byte[] random)
Get random
Parameters:
    random -
Returns:
pinPadMac
public int pinPadMac(int keyIndex,
                      PinMacTypeEnum macType,
                      byte[] inputData,
                      int inputDataLength,
                      byte[] outData)
MAC
Parameters:
     keyIndex - key index, 0x00~0x0F
     macType - type of mac algorithm(ECB, ANSI X9.9, ANSI X9.19, XOR)
     inputData - data to be encrypted
     inputDataLength - Length of data to be encrypted
```

outData - Encrypted return data

Returns:

pin Pad Mac By Dukpt

```
public int pinPadMacByDukpt(int keyIndex,
```

PinMacTypeEnum macType,
byte[] inputData,
int inputDataLength,
byte[] outData,
byte[] ksn)

Use DUKPT algorithm to get MAC

Parameters:

keylndex - key index, 0x00~0x09

macType - the type of Mac algorithm(ECB, ANSI X9.9, ANSI X9.19, XOR).

inputData - data to be encrypted

inputDataLength - Length of data to be encrypted

outData - MAC

ksn - 10 bytes key serial number

Returns:

pin Pad Set Algorithm Mode

public int pinPadSetAlgorithmMode(PinAlgorithmModeEnum algorithmMode)

pinPadSM4Encrypt

```
public int pinPadSM4Encrypt(byte mode,
```

byte[] pucFactor,
byte[] outData)

pinPadUpDukpt

public int pinPadUpDukpt(int keyIndex,

byte[] keyData,
byte keyLength,
byte[] ksn)

Download the DUKPT algorithm key

Parameters:

keyIndex - key index, 0x00~0x09

keyData - key

keyLength - the length of key

ksn - 10 bytes key serial number

Returns: pinPadUpEncryptedMastKey public int pinPadUpEncryptedMastKey(int keyIndex, byte[] keyData, byte keyLength, byte decKeyIndex) Download the encrypted master key Parameters: keyIndex - key index, 0x00~0x0F keyData - encrypted master key keyLength - the length of encrypted master key decKeyIndex - the index of decrypted key Returns: pinPadUpEncryptKey public int pinPadUpEncryptKey(int keyIndex, byte[] keyData, byte keyDataLength, Pi nEncryptTypeEnum transType) Parameters: keyIndex keyData keyDataLength transType -Returns: pinPadUpMastKey public int pinPadUpMastKey(int keyIndex, byte[] keyData, byte keyLength) Download the plaintext master key Parameters: keyIndex - key index, 0x00~0x0F keyData - master key

keyLength - the length of master key

Returns:

pinPadUpPlainWorkKey

tdkData - tdk

macKeyData - mac key

Returns:

pinPadUpWorkKey

Download the encrypted work key(pin key, mac key, tdk). The key length should by 20 bytes. It include 16 bytes encrypted work key and 4 bytes validation data. Check the data is to use the 3des algorithm key to encrypt 8 bytes 0 and intercept the first 4 bytes.

Parameters:

```
keyIndex - key index of master key, 0x00~0x0F

pinKeyData - pin key

pinKeyLength - the length of pin key. If 0, indicate that don't download this key

macKeyData - mac key

macKeyLength - the length of mac key. If 0, indicate that don't download this key

tdk - tdk

tdkLength - the length of tdk. If 0, indicate that don't download this key

Returns:
```

readPinKeyValue

public int readPinKeyValue(byte[] key)

setEditTextView

public void setEditTextView(android.widget.EditText editText) Set custom password input view

Parameters:

editText -

setInputOffPinTitle

public void setInputOffPinTitle(java.lang.String payTitle)
Set the title for offline keyboard i nputOfflinePin(android.content.Context, byte, byte, int, boolean, com.zcs.sdk.pin.pinpad.PinPadManager.OnPinPadInputListener)

Parameters:

payTitle -

setInputPinTitle

public void setInputPinTitle(j ava.lang. String payTitle)

Set the title for random keyboard i nputOnlinePin(android.content.Context, byte, byte, int, boolean, java.lang.String, byte, com.zcs.sdk.pin.PinAlgorithmMode, com.zcs.sdk.pin.pinpad.PinPadManager.OnPinPadInputListener)

Parameters:

payTitle -

setKeyBoardViewMode

public void setKeyBoardViewMode(PinKeyboardViewModeEnum keyModeEnum)
Set the visible mode for the input view

Parameters:

keyModeEnum -

startInputPin

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METHOD

com.zcs.sdk

Class Led

java.lang.Object com.zcs.sdk.Led

public class Led extends java. I ang. Object

Method Summary

All Methods

Instance Methods

Concrete Methods

Modifier and Type

Method and Description

int

setLed(LedLightModeEnum ledNumber, boolean isOn)

Set LFD

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Method Detail

setLed

public int setLed(LedLightModeEnum ledNumber,

boolean is0n)

Set LED

Parameters:

ledNumber - The enum object of led lightLedLightModeEnum

isOn - true is on, false is off

Returns:

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U

uninstallApp(Context, String) - Method in class com.zcs.sdk.Sys

Silently uninstall the specified application

uninstallApp2(Context, String) - Method in class com.zcs.sdk.Sys

Silently uninstall the specified application without a return value

UNKNOWN_ERROR - Static variable in class com.zcs.sdk.fingerprint.FingerResult

unlock(int, byte[]) - Method in class com.zcs.sdk.Sys

Unlock device

 $update Clock (String) \hbox{ - Method in class com.} zcs.sdk. blue to oth. emv. Blue to oth Handler$

Set time

updateClock() - Method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler

Update current phone time as device time

updateFirmware(InputStream, Sys.UpdateListener) - Method in class

com.zcs.sdk.exteranl.ExternalCardManager

Update firmware

updateFirmware(File, Sys.UpdateListener) - Method in class

com.zcs.sdk.exteranl.ExternalCardManager

Update firmware

updateFirmware(InputStream, Sys.UpdateListener) - Method in class com.zcs.sdk.Sys

Update firmware

 $update Firmware (File,\ Sys. Update Listener)\ -\ Method\ in\ class\ com.zcs.sdk. Sys$

Update firmware

UPLOAD_FETURE_FAILED - Static variable in class com.zcs.sdk.fingerprint.FingerResult

USB_DEVICE_DISCONN - Static variable in class com.zcs.sdk.usb.USBConstants

USB DEVICE OPENERR - Static variable in class com.zcs.sdk.usb.USBConstants

USB GET SERVICE FAIL - Static variable in class com.zcs.sdk.usb.USBConstants

USB_HAS_CONNECTED - Static variable in class com.zcs.sdk.usb.USBConstants

USB_INFCOUNT_ERR - Static variable in class com.zcs.sdk.usb.USBConstants

USB_INIT_ERR - Static variable in class com.zcs.sdk.usb.USBConstants

USB_NO_ENDPOINT - Static variable in class com.zcs.sdk.usb.USBConstants

USB NO PERMISSION - Static variable in class com.zcs.sdk.usb.USBConstants

USB_NO_USB_DEVICE - Static variable in class com.zcs.sdk.usb.USBConstants

USB NOT FIND DEVICE - Static variable in class com.zcs.sdk.usb.USBConstants

USB_OPEN_INTERERR - Static variable in class com.zcs.sdk.usb.USBConstants

USB_POINT_NULL - Static variable in class com.zcs.sdk.usb.USBConstants

USB_STATUS_ERR - Static variable in class com.zcs.sdk.usb.USBConstants

USB_STATUS_OK - Static variable in class com.zcs.sdk.usb.USBConstants

USBConstants - Class in com.zcs.sdk.usb

USBConstants() - Constructor for class com.zcs.sdk.usb.USBConstants

UsbHandler - Class in com.zcs.sdk.usb

UsbReader - Class in com.zcs.sdk.usb

UsbReader(UsbHandler, UsbEndpoint, UsbDeviceConnection) - Constructor for class com.zcs.sdk.usb.UsbReader

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Hierarchy For Package com.zcs.sdk.card

Package Hierarchies:

All Packages

Class Hierarchy

- java.lang.Object
 - com.zcs.sdk.card.CardInfoEntity
 - com.zcs.sdk.card.CardReaderManager
 - com.zcs.sdk.card.ICCard
 - com.zcs.sdk.card.IDCard
 - com.zcs.sdk.card.MagCard
 - com.zcs.sdk.card.RfCard
 - com.zcs.sdk.card.SLE4428Card
 - com.zcs.sdk.card.SLE4442Card

Enum Hierarchy

- java.lang.Object
 - java.lang.Enum<E> (implements java.lang.Comparable<T>, java.io.Serializable)
 - com.zcs.sdk.card.RfCardTypeEnum
 - com.zcs.sdk.card.CardReaderTypeEnum
 - com.zcs.sdk.card.MagEncryptTypeEnum
 - com.zcs.sdk.card.CardSlotNoEnum

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Packages

com.zcs.sdk com.zcs.sdk.bluetooth com.zcs.sdk.bluetooth.emv com.zcs.sdk.card com.zcs.sdk.exteranl com.zcs.sdk.fingerprint com.zcs.sdk.listener com.zcs.sdk.pin com.zcs.sdk.pin com.zcs.sdk.pin.pinpad com.zcs.sdk.print

com.zcs.sdk.usb com.zcs.sdk.util

All Classes

Beeper

BitmapUtils

BluetoothHandler

BluetoothListener

BluetoothManager

CardDetectedEnum

CardInfoEntity

CardReaderManager

CardReaderTypeEnum

CardSlotNoEnum

ConnectTypeEnum

DriverManager

EmvStatusEnum

ExternalCardManager

FingerprintListener

FingerprintManager

FingerResult

ICCard

ICCard

IDCard

Led

LedLightModeEnum

LogUtils

MagCard

MagEncryptTypeEnum

MagEncryptTypeEnum

MessageDigestUtils

NFCCardType

OnBluetoothEmvListener

OnSearchCardListener

Pin Algorithm Mode

PinAlgorithmModeEnum

PinEncryptTypeEnum

PinKeyboardViewModeEnum

PinMacTypeEnum

PinPadManager

PinPadManager. OnPinPadInputListener

PinPadPasswordActivity

PinWorkKeyTypeEnum

Printer

PrnAlignTypeEnum

PrnFontSizeTypeEnum

PrnSpeedTypeEnum

PrnStrFormat

PrnTextFont

PrnTextStyle

Result

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Rf Card Type Enum

SdkData

SdkResult

SLE4428Card

SLE4442Card

StringUtils

Sys

Sys. UpdateListener

USBConstants

UsbHandler

UsbReader

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F

FAILD_EXTRACT_MINITIAE - Static variable in class com.zcs.sdk.fingerprint.FingerResult

FEATURE_MERGE_FAILED - Static variable in class com.zcs.sdk.fingerprint.FingerResult

FINGER_ID_OUT_OF_BOUND - Static variable in class com.zcs.sdk.fingerprint.FingerResult

FingerprintListener - Interface in com.zcs.sdk.fingerprint

A callback that notifies fingerprint operation

FingerprintManager - Class in com.zcs.sdk.fingerprint

FingerResult - Class in com.zcs.sdk.fingerprint

FingerResult() - Constructor for class com.zcs.sdk.fingerprint.FingerResult

finishedDiscovery() - Method in interface com.zcs.sdk.bluetooth.BluetoothListener Called when finish to discovery

FLASH_OPT_FAILED - Static variable in class com.zcs.sdk.fingerprint.FingerResult

fromGBK(byte[]) - Static method in class com.zcs.sdk.util.StringUtils

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

com.zcs.sdk

Class Printer

java.lang.Object com.zcs.sdk.Printer

public class Printer extends j ava. l ang. Object

Method Summary

All Methods Static Methods	Instance Methods	Concrete Methods	
Modifier and Type	Method and Description		
androi d. graphi cs. Bi tmap	createBarcode(android.content.Context context, java.lang.String contents, int desiredWidth, int desiredHeight, boolean displayCode, android.text.Layout.Alignment alignment, com.google.zxing.BarcodeFormat format) Create bar code bitmap		
static android. graphics. Bitmap	<pre>createQRCode(j ava. La int height)</pre>	ang. String content, int width,	
androi d. graphi cs. Bi tmap	createQRImage(java.lang.String content, int widthPix, int heightPix, android.text.Layout.Alignment alignment) Create QR code bitmap.		
i nt	getPri nterStatus() Get print status		
int	setPrintAlign(PrnAlignTypeEnum align) Set print alignment		
voi d	setPrintAppendBarCode(android.content.Context conte j ava. I ang. String contents, int desiredWidth, int desiredHeight, bool ean displayCode, android.text.Layout.Alignment alignment, com. google.zxing.BarcodeFormat format) Append the bar code of bitmap printed Need to add google ZXing scan library as a dependency		
voi d		p(android.graphics.Bitmap bitmap, .Alignment alignment) print	

voi d	setPrintAppendQRCode(j ava. I ang. String content, int width, int height, android. text. Layout. Alignment alignment) Append the QR code of bitmap printed Need to add google ZXing scan library as a dependency
voi d	setPrintAppendString(j ava. I ang. String string, PrnStrFormat format) Append the text of bitmap printed
int	setPrintBitmap(byte[] bitmap)
int	setPri ntFontSi ze(PrnFontSi zeTypeEnum si ze) Set the print font size
int	setPrintLine(int line) Set forward paper lines
int	setPrintRowGap(int rowgap) Set print row spacing
int	setPrintSpeed(PrnSpeedTypeEnum speed) Set the print speed level
int	setPri ntStart() Set to start printing
int	setPrintString(byte[] string) Set print text
static byte[]	sysCopy(j ava. util.List <byte[]> srcArrays)</byte[]>

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Method Detail

createBarcode

public android.graphics.Bitmap createBarcode(android.content.Context context,

java. I ang. String contents, int desiredWidth, int desiredHeight, bool ean displayCode, android. text. Layout. Alignment alignment, com. google. zxing. BarcodeFormat format)

Create bar code bitmap

```
Parameters:

context - android environment context

contents - content of bar code

desiredWidth - width of bar code

desiredHeight - height of bar code

displayCode - whether to display the text below the bar code

alignment - alignment of bar code

format - format of bar code

Returns:
```

createORCode

createQRImage

Create QR code bitmap. Need to add google ZXing scan library as a dependency

Parameters:

content - content of QR code
widthPix - width of QR code
heightPix - height of QR code
alignment - alignment of QR code

getPrinterStatus

public int getPrinterStatus()
Get print status

Returns:

Returns:

SdkResult.SDK_PRN_BASE_ERR

setPrintAlign

```
public int setPrintAlign(PrnAlignTypeEnum align)
Set print alignment
Parameters:
    align - alignment PrnAlignTypeEnum
```

Returns:

SdkResul t

setPrintAppendBarCode

android.text.Layout.Alignment alignment, com.google.zxing.BarcodeFormat format)

Append the bar code of bitmap printed Need to add google ZXing scan library as a dependency

Parameters:

```
context - android environment context

contents - the content of bar code

desiredWidth - bar code width

desiredHeight - bar code height

displayCode - whether to display the text below the bar code

alignment - the alignment of bar code
```

format - bar code format. Refer to com. google.zxing.BarcodeFormat

setPrintAppendBitmap

Append the bitmap to print

Parameters:

```
bitmap - bitmap to print
alignment - the alignment of printed bitmap
```

setPrintAppendQRCode

int height,
android.text.Layout.Alignment alignment)

Append the QR code of bitmap printed Need to add google ZXing scan library as a dependency

Parameters:

content - the content of QR code

width - the width of QR code

height - the height of QR code

alignment - the alignment of QR code

setPrintAppendString

Append the text of bitmap printed

Parameters:

string - the text string to print

format - the text format PrnStrFormat

setPrintBitmap

public int setPrintBitmap(byte[] bitmap)

setPrintFontSize

public int setPrintFontSize(PrnFontSizeTypeEnum size)
Set the print font size

Parameters:

size - enum of supported print font size

Returns:

SdkResul t

setPrintLine

public int setPrintLine(int line)

Set forward paper lines

Parameters:

line -

Returns:

SdkResul t

setPrintRowGap

public int setPrintRowGap(int rowgap)

Set print row spacing

Parameters:

rowgap - line spacing

Returns:

SdkResul t

setPrintSpeed

public int setPrintSpeed(PrnSpeedTypeEnum speed)

Set the print speed level

Parameters:

speed - the print speed Level PrnSpeedTypeEnum

Returns:

SdkResul t

setPrintStart

public int setPrintStart()

Set to start printing

Returns:

SdkResul t

setPrintString

public int setPrintString(byte[] string)

Set print text

Parameters:

string - the text string to print

Returns:

SdkResul t

sysCopy

public static byte[] sysCopy(j ava.util.List<byte[]> srcArrays)

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METHOD

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Hierarchy For Package com.zcs.sdk.bluetooth

Package Hierarchies:

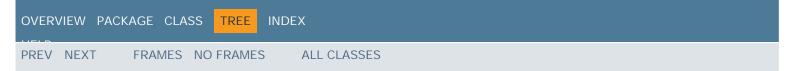
All Packages

Class Hierarchy

- java.lang.Object
 - com.zcs.sdk.bluetooth.BluetoothManager

Interface Hierarchy

• com.zcs.sdk.bluetooth.BluetoothListener



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OVERVIEW PACKAGE CLASS TREE INDEX

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | ENUM CONSTANTS | FIELD | METHOD DETAIL: ENUM CONSTANTS | FIELD | METHOD

com.zcs.sdk.print

Enum PrnFontSizeTypeEnum

java.lang.Object

java.lang.Enum<PrnFontSizeTypeEnum> com.zcs.sdk.print.PrnFontSizeTypeEnum

All Implemented Interfaces:

java.io. Serializable, java.lang. Comparable<PrnFontSizeTypeEnum>

public enum PrnFontSizeTypeEnum
extends java.lang.Enum<PrnFontSizeTypeEnum>

Enum Constant Summary

Enum Constants

Enum Constant and Description

DEFAULT_SIZE

Defalut

DOUBLE_HEI GHT

Double height

DOUBLE_WI DTH

Double width

DOUBLE WIDTH HEIGHT

Double width, double height

Method Summary

All Methods	Static Methods	Instance Methods	Concrete Methods	
Modifier and Ty	pe M	ethod and Description		
byte	g	etType()		
31			ing name) int of this type with the s	specified

static PrnFontSizeTypeEnum[] values()

Returns an array containing the constants of this enum type, in the order they are declared.

Methods inherited from class java.lang.Enum

compareTo, equals, getDeclaringClass, hashCode, name, ordinal, toString, valueOf

Methods inherited from class java.lang.Object

getClass, notify, notifyAll, wait, wait, wait

Enum Constant Detail

DEFAULT_SIZE

public static final PrnFontSizeTypeEnum DEFAULT_SIZE Defalut

DOUBLE_HEIGHT

public static final PrnFontSizeTypeEnum DOUBLE_HEIGHT
Double height

DOUBLE_WIDTH

public static final PrnFontSi zeTypeEnum DOUBLE_WIDTH
Double width

DOUBLE_WIDTH_HEIGHT

public static final PrnFontSizeTypeEnum DOUBLE_WIDTH_HEIGHT Double width, double height

Method Detail

getType

public byte getType()

valueOf

public static PrnFontSizeTypeEnum valueOf(java.lang.String name)

Returns the enum constant of this type with the specified name. The string must match *exactly* an identifier used to declare an enum constant in this type. (Extraneous whitespace characters are not permitted.)

Parameters:

name - the name of the enum constant to be returned.

Returns:

the enum constant with the specified name

Throws:

java.lang.lllegalArgumentException - if this enum type has no constant with the specified name

java.lang.NullPointerException - if the argument is null

values

public static PrnFontSizeTypeEnum[] values()

Returns an array containing the constants of this enum type, in the order they are declared. This method may be used to iterate over the constants as follows:

for (PrnFontSi zeTypeEnum c : PrnFontSi zeTypeEnum. val ues())
 System. out. pri ntl n(c);

Returns:

an array containing the constants of this enum type, in the order they are declared

OVERVIEW PACKAGE

CLASS

TREE INDEX

PREV CLASS NEXT CLASS

FRAMES NO FRAMES

ALL CLASSES

SUMMARY: NESTED | ENUM CONSTANTS | FIELD | METHOD

DETAIL: ENUM CONSTANTS | FIELD | METHOD

JavaScript is disabled on your browser.

OVERVIEW PACKAGE CLASS TREE INDEX

PREV NEXT FRAMES NO FRAMES

ALL CLASSES

How This API Document Is Organized

This API (Application Programming Interface) document has pages corresponding to the items in the navigation bar, described as follows.

Overview

The Overview page is the front page of this API document and provides a list of all packages with a summary for each. This page can also contain an overall description of the set of packages.

Package

Each package has a page that contains a list of its classes and interfaces, with a summary for each. This page can contain six categories:

- Interfaces (italic)
- Classes
- Enums
- Exceptions
- Errors
- Annotation Types

Class/Interface

Each class, interface, nested class and nested interface has its own separate page. Each of these pages has three sections consisting of a class/interface description, summary tables, and detailed member descriptions:

- Class inheritance diagram
- Direct Subclasses
- All Known Subinterfaces
- All Known Implementing Classes
- Class/interface declaration
- Class/interface description
- Nested Class Summary
- Field Summary
- Constructor Summary
- Method Summary
- Field Detail
- Constructor Detail
- Method Detail

Each summary entry contains the first sentence from the detailed description for that item. The summary entries are alphabetical, while the detailed descriptions are in the order they appear in the source code. This preserves the logical groupings established by the programmer.

Annotation Type

Each annotation type has its own separate page with the following sections:

- Annotation Type declaration
- Annotation Type description
- Required Element Summary
- Optional Element Summary
- Element Detail

Enum

Each enum has its own separate page with the following sections:

- Enum declaration
- Enum description
- Enum Constant Summary
- Enum Constant Detail

Tree (Class Hierarchy)

There is a Class Hierarchy page for all packages, plus a hierarchy for each package. Each hierarchy page contains a list of classes and a list of interfaces. The classes are organized by inheritance structure starting with j ava. I ang. 0bj ect. The interfaces do not inherit from j ava. I ang. 0bj ect.

- When viewing the Overview page, clicking on "Tree" displays the hierarchy for all packages.
- When viewing a particular package, class or interface page, clicking "Tree" displays the hierarchy for only that package.

Index

The Index contains an alphabetic list of all classes, interfaces, constructors, methods, and fields.

Prev/Next

These links take you to the next or previous class, interface, package, or related page.

Frames/No Frames

These links show and hide the HTML frames. All pages are available with or without frames.

All Classes

The All Classes link shows all classes and interfaces except non-static nested types.

Serialized Form

Each serializable or externalizable class has a description of its serialization fields and methods. This information is of interest to re-implementors, not to developers using the API. While there is no link in the navigation bar, you can get to this information by going to any serialized class and clicking "Serialized Form" in the "See also" section of the class description.

Constant Field Values

The Constant Field Values page lists the static final fields and their values.

This help file applies to API documentation generated using the standard doclet.

OVERVIEW PACKAGE CLASS TREE INDEX

PREV NEXT FRAMES NO FRAMES ALL CLASSES

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OVERVIEW PACKAGE

CLASS TREE INDEX

PREV CLASS NEXT CLASS

FRAMES NO FRAMES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR |

ALL CLASSES

METHOD

com.zcs.sdk.util

Class MessageDigestUtils

java.lang.Object

com.zcs.sdk.util.MessageDigestUtils

public final class MessageDigestUtils extends java. lang. Object

Class that provide a wide set of methods

Field Summary

Fields

Modifier and Type Field and Description

static int TDES_CBC

static int TDES_ECB

Constructor Summary

Constructors

Constructor and Description

MessageDi gestUtils()

Method Summary

All Methods

Static Methods

Concrete Methods

Modifier and Type

Method and Description

static java.lang.String bytesToHexString(byte[] src)

static byte[]

decodeDES(byte[] data, byte[] key)

Convert a DES bytes to plain text bytes

static java. lang. String decodeDES(java. lang. String data, java. lang. String key)

Convert a DES string to plain text string

static java. lang. String decodePin(java. lang. String encrypted,

java.lang.String pan, java.lang.String key)

static byte[] decodeTripleDES(byte[] data, byte[] key) decodeTripleDES(int type, byte[] data, byte[] key) static byte[] static java. lang. String decodeTripleDES(int type, java. lang. String data, java. lang. String key) static java. lang. String decodeTripleDES(java. lang. String data, java. lang. String key) static byte[] encodeDES(byte[] data, byte[] key) Convert a plain text bytes to DES bytes static java. lang. String encodeDES(java. lang. String data, java. lang. String key) Convert a plain text string to DES string static java. lang. String encodeMD5(java. lang. String data) Convert a plain text string to MD5 string static java. Lang. String encodePin(java. Lang. String pin, java. Lang. String pan, java. lang. String key) encodeTripleDES(byte[] data, byte[] key) static byte[] static byte[] encodeTripleDES(int type, byte[] data, byte[] key) static java. lang. String encodeTripleDES(int type, java. lang. String data, java.lang.String key) static java. lang. String encodeTripleDES(java. lang. String data, java. lang. String key) static byte[] hexStringToBytes(j ava. l ang. String hexString) static void main(j ava. lang. String[] args)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

TDES_CBC

public static int TDES_CBC

TDES_ECB

public static int TDES_ECB

Method Detail

bytesToHexString

public static java.lang.String bytesToHexString(byte[] src)

```
decodeDES
```

```
public static byte[] decodeDES(byte[] data,
                                   byte[] key)
                           throws java. security. InvalidKeyException,
                                   java. securi ty. NoSuchAl gori thmExcepti on,
                                   java. security. spec. InvalidKeySpecException,
                                   j avax. crypto. NoSuchPaddi ngExcepti on,
                                   j avax. crypto. Il legal BlockSi zeExcepti on,
                                   j avax. crypto. BadPaddi ngExcepti on
Convert a DES bytes to plain text bytes
Parameters:
     data - the specified bytes
     key - the specified DES key the key length must be multiple of 8
Returns:
     byte[]
Throws:
     java. security. InvalidKeyException
     java. securi ty. NoSuchAl gori thmExcepti on
     java. securi ty. spec. I nval i dKeySpecExcepti on
     j avax. crypto. NoSuchPaddi ngExcepti on
     j avax. crypto. BadPaddi ngExcepti on
     j avax. crypto. I I I egal Bl ockSi zeExcepti on
     j ava. I ang. Excepti on
```

decodeDES

Convert a DES string to plain text string

Parameters:

```
data - the specified bytes
     key - the specified DES key the key length must be multiple of 8
Returns:
     String
Throws:
     j avax. crypto. BadPaddi ngExcepti on
     j avax. crypto. I I l egal Bl ockSi zeExcepti on
     j avax. crypto. NoSuchPaddi ngExcepti on
     java. security. spec. InvalidKeySpecException
     java. securi ty. NoSuchAl gori thmExcepti on
     java. security. InvalidKeyException
decodePin
public static java. lang. String decodePin(java. lang. String encrypted,
                                             java. lang. String pan,
                                             java.lang.String key)
                                      throws java. security. InvalidKeyException,
                                             java. securi ty. NoSuchAl gori thmExcepti on,
                                             j avax. crypto. NoSuchPaddi ngExcepti on,
                                             j avax. crypto. Il legal BlockSi zeExcepti on,
                                             javax. crypto. BadPaddi ngExcepti on,
```

java. security. InvalidAl gorithmParameterException

java. security. spec. InvalidKeySpecException

Throws:

```
java. securi ty. InvalidKeyException
java. securi ty. NoSuchAl gori thmException
javax. crypto. NoSuchPaddingException
javax. crypto. Illegal BlockSi zeException
javax. crypto. BadPaddingException
java. securi ty. InvalidAl gori thmParameterException
java. securi ty. spec. InvalidKeySpecException
```

decodeTripleDES

```
j avax. crypto. I I I egal Bl ockSi zeExcepti on,
                                           j avax. crypto. BadPaddi ngExcepti on,
                                           java. securi ty. InvalidAl gorithmParameterException,
                                           j ava. securi ty. spec. I nval i dKeySpecExcepti on
Throws:
     java. securi ty. NoSuchAl gori thmExcepti on
     j avax. crypto. NoSuchPaddi ngExcepti on
     java. securi ty. I nval i dKeyExcepti on
     j avax. crypto. I I I egal Bl ockSi zeExcepti on
     j avax. crypto. BadPaddi ngExcepti on
     java. securi ty. I nval i dAl gori thmParameterExcepti on
     java. securi ty. spec. I nval i dKeySpecExcepti on
decodeTripleDES
public static byte[] decodeTripleDES(int type,
                                           byte[] data,
                                           byte[] key)
                                   throws java. security. NoSuchAl gorithmException,
                                           j avax. crypto. NoSuchPaddi ngExcepti on,
                                           java. securi ty. InvalidKeyException,
                                           j avax. crypto. Il legal BlockSi zeExcepti on,
                                           j avax. crypto. BadPaddi ngExcepti on,
                                           java. securi ty. InvalidAl gori thmParameterException,
                                           j ava. securi ty. spec. I nval i dKeySpecExcepti on
Throws:
     java. securi ty. NoSuchAl gori thmExcepti on
     j avax. crypto. NoSuchPaddi ngExcepti on
     j ava. securi ty. I nval i dKeyExcepti on
     j avax. crypto. I I I egal Bl ockSi zeExcepti on
     j avax. crypto. BadPaddi ngExcepti on
```

decodeTripleDES

java. securi ty. I nval i dAl gori thmParameterExcepti on

j ava. securi ty. spec. I nval i dKeySpecExcepti on

```
j avax. crypto. NoSuchPaddi ngExcepti on,
                                                      j avax. crypto. Illegal BlockSi zeException,
                                                      j avax. crypto. BadPaddi ngExcepti on,
                                                      java. securi ty. InvalidAl gori thmParameterEx
                                                      j ava. securi ty. spec. I nval i dKeySpecExcepti o
Throws:
     java. security. InvalidKeyException
     java. securi ty. NoSuchAl gori thmExcepti on
     j avax. crypto. NoSuchPaddi ngExcepti on
     j avax. crypto. I I I egal Bl ockSi zeExcepti on
     j avax. crypto. BadPaddi ngExcepti on
     java. securi ty. I nval i dAl gori thmParameterExcepti on
     j ava. securi ty. spec. I nval i dKeySpecExcepti on
decodeTripleDES
public static java. lang. String decodeTripleDES(java. lang. String data,
                                                      java.lang.String key)
                                              throws java. security. InvalidKeyException,
                                                      java. securi ty. NoSuchAl gori thmException,
                                                      j avax. crypto. NoSuchPaddi ngExcepti on,
                                                      j avax. crypto. Illegal BlockSi zeException,
                                                      j avax. crypto. BadPaddi ngExcepti on,
                                                      java. securi ty. InvalidAl gori thmParameterEx
                                                      j ava. securi ty. spec. I nval i dKeySpecExcepti o
Throws:
     java. securi ty. I nval i dKeyExcepti on
     java. securi ty. NoSuchAl gori thmExcepti on
     j avax. crypto. NoSuchPaddi ngExcepti on
     j avax. crypto. I I I egal Bl ockSi zeExcepti on
     j avax. crypto. BadPaddi ngExcepti on
     java. securi ty. I nval i dAl gori thmParameterExcepti on
     j ava. securi ty. spec. I nval i dKeySpecExcepti on
encodeDES
public static byte[] encodeDES(byte[] data,
                                    byte[] key)
                            throws java. security. InvalidKeyException,
```

j ava. securi ty. NoSuchAl gori thmExcepti on, j ava. securi ty. spec. I nval i dKeySpecExcepti on,

```
j avax. crypto. NoSuchPaddi ngExcepti on,
                                   javax. crypto. Il legal BlockSi zeException,
                                   j avax. crypto. BadPaddi ngExcepti on
Convert a plain text bytes to DES bytes
Parameters:
     data - the specified bytes
     key - the specified DES key the key length must be multiple of 8
Returns:
     Stri ng
Throws:
     java. security. InvalidKeyException
     java. security. NoSuchAl gorithmException
     j ava. securi ty. spec. I nval i dKeySpecExcepti on
     j avax. crypto. NoSuchPaddi ngExcepti on
     j avax. crypto. BadPaddi ngExcepti on
     j avax. crypto. I I l egal Bl ockSi zeExcepti on
encodeDES
public static final java. lang. String encodeDES(java. lang. String data,
                                                     java. lang. String key)
                                             throws java. security. InvalidKeyException,
                                                     java. securi ty. NoSuchAl gori thmExcepti on,
                                                     java. securi ty. spec. I nval i dKeySpecExcepti o
                                                     j avax. crypto. NoSuchPaddi ngExcepti on,
                                                     javax. crypto. Illegal BlockSi zeException,
                                                     j avax. crypto. BadPaddi ngExcepti on
Convert a plain text string to DES string
Parameters:
     data - the specified string
     key - the specified DES key the key length must be multiple of 8
Returns:
     Stri ng
Throws:
     j avax. crypto. BadPaddi ngExcepti on
     j avax. crypto. I I I egal BI ockSi zeExcepti on
     j avax. crypto. NoSuchPaddi ngExcepti on
     j ava. securi ty. spec. I nval i dKeySpecExcepti on
     java. security. NoSuchAl gorithmException
```

java. security. InvalidKeyException

```
encodeMD5
public static java. lang. String encodeMD5(java. lang. String data)
                                      throws java. security. NoSuchAl gorithmException
Convert a plain text string to MD5 string
Parameters:
     data - the specified string
Returns:
     Stri ng
Throws:
     java. securi ty. NoSuchAl gori thmExcepti on
encodePin
public static java. lang. String encodePin(java. lang. String pin,
                                              java. lang. String pan,
                                              java.lang.String key)
                                      throws java. security. InvalidKeyException,
                                              java. securi ty. NoSuchAl gori thmExcepti on,
                                              j avax. crypto. NoSuchPaddi ngExcepti on,
                                              javax. crypto. Il legal BlockSi zeExcepti on,
                                              j avax. crypto. BadPaddi ngExcepti on,
                                              java. security. InvalidAl gorithmParameterException
                                              java. security. spec. InvalidKeySpecException
Throws:
     java. securi ty. I nval i dKeyExcepti on
     java. securi ty. NoSuchAl gori thmExcepti on
     j avax. crypto. NoSuchPaddi ngExcepti on
     j avax. crypto. I I I egal Bl ockSi zeExcepti on
     j avax. crypto. BadPaddi ngExcepti on
     java. security. InvalidAl gorithmParameterException
     j ava. securi ty. spec. I nval i dKeySpecExcepti on
encodeTripleDES
public static byte[] encodeTripleDES(byte[] data,
                                         byte[] key)
                                  throws java. security. NoSuchAl gorithmException,
                                         j avax. crypto. NoSuchPaddi ngExcepti on,
                                         java. securi ty. InvalidKeyException,
                                         j avax. crypto. Il legal BlockSi zeExcepti on,
                                         j avax. crypto. BadPaddi ngExcepti on,
                                         java. securi ty. InvalidAl gori thmParameterException,
```

```
java. security. NoSuchAl gorithmException
     j avax. crypto. NoSuchPaddi ngExcepti on
     java. securi ty. I nval i dKeyExcepti on
     j avax. crypto. I I I egal Bl ockSi zeExcepti on
     j avax. crypto. BadPaddi ngExcepti on
     java. securi ty. I nval i dAl gori thmParameterExcepti on
     java. securi ty. spec. I nval i dKeySpecExcepti on
encodeTripleDES
public static byte[] encodeTripleDES(int type,
                                          byte[] data,
                                          byte[] key)
                                  throws java. security. NoSuchAl gorithmException,
                                          j avax. crypto. NoSuchPaddi ngExcepti on,
                                          java. securi ty. InvalidKeyException,
                                          j avax. crypto. I I I egal Bl ockSi zeExcepti on,
                                          j avax. crypto. BadPaddi ngExcepti on,
                                          java. securi ty. InvalidAl gorithmParameterException,
                                          j ava. securi ty. spec. I nval i dKeySpecExcepti on
Throws:
     java. securi ty. NoSuchAl gori thmExcepti on
     j avax. crypto. NoSuchPaddi ngExcepti on
     j ava. securi ty. I nval i dKeyExcepti on
     j avax. crypto. I I I egal Bl ockSi zeExcepti on
     j avax. crypto. BadPaddi ngExcepti on
     java. security. InvalidAl gorithmParameterException
     j ava. securi ty. spec. I nval i dKeySpecExcepti on
encodeTripleDES
public static java.lang.String encodeTripleDES(int type,
                                                     java. lang. String data,
                                                     java.lang.String key)
                                              throws java. security. InvalidKeyException,
                                                     java. security. NoSuchAl gorithmException,
                                                     j avax. crypto. NoSuchPaddi ngExcepti on,
                                                     j avax. crypto. Illegal BlockSi zeException,
                                                     j avax. crypto. BadPaddi ngExcepti on,
```

Throws:

j ava. securi ty. spec. I nval i dKeySpecExcepti on

```
j ava. securi ty. spec. I nval i dKeySpecExcepti o
Throws:
     java. security. InvalidKeyException
     java. securi ty. NoSuchAl gori thmExcepti on
     j avax. crypto. NoSuchPaddi ngExcepti on
     j avax. crypto. I I I egal Bl ockSi zeExcepti on
     j avax. crypto. BadPaddi ngExcepti on
     java. securi ty. I nval i dAl gori thmParameterExcepti on
     j ava. securi ty. spec. I nval i dKeySpecExcepti on
encodeTripleDES
public static java. lang. String encodeTripleDES(java. lang. String data,
                                                     java.lang.String key)
                                              throws java. security. InvalidKeyException,
                                                     java. securi ty. NoSuchAl gori thmException,
                                                     j avax. crypto. NoSuchPaddi ngExcepti on,
                                                     j avax. crypto. I I I egal Bl ockSi zeExcepti on,
                                                     j avax. crypto. BadPaddi ngExcepti on,
                                                     java. securi ty. InvalidAl gori thmParameterEx
                                                     j ava. securi ty. spec. I nval i dKeySpecExcepti o
Throws:
     java. security. InvalidKeyException
     java. securi ty. NoSuchAl gori thmExcepti on
     j avax. crypto. NoSuchPaddi ngExcepti on
     j avax. crypto. I I I egal Bl ockSi zeExcepti on
     j avax. crypto. BadPaddi ngExcepti on
     java. security. InvalidAl gorithmParameterException
     j ava. securi ty. spec. I nval i dKeySpecExcepti on
hexStringToBytes
public static byte[] hexStringToBytes(j ava.lang. String hexString)
main
public static void main(java.lang.String[] args)
```

java. securi ty. InvalidAl gori thmParameterEx

OVERVIEW PACKAGE CLASS TREE INDEX

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

Change the M1 card key

m1ReadBlock(byte, byte[]) - Method in class com.zcs.sdk.card.RfCard Read M1 card block

m1VerifyKey(byte, byte, byte[]) - Method in class com.zcs.sdk.card.RfCard Verify card key for M1 card

m1WirteBlock(byte, byte[]) - Method in class com.zcs.sdk.card.RfCard Write M1 card block

MagCard - Class in com.zcs.sdk.card

magCardClose() - Method in class com.zcs.sdk.card.MagCard Close magnetic stripe card module

magCardOpen() - Method in class com.zcs.sdk.card.MagCard Open magnetic stripe card module

magClearData() - Method in class com.zcs.sdk.card.MagCard Clear the card cache data

MagEncryptTypeEnum - Enum in com.zcs.sdk.card

MagEncryptTypeEnum - Enum in com.zcs.sdk.pin

main(String[]) - Static method in class com.zcs.sdk.util.MessageDigestUtils

MessageDigestUtils - Class in com.zcs.sdk.util

Class that provide a wide set of methods

MessageDigestUtils() - Constructor for class com.zcs.sdk.util.MessageDigestUtils

MESSY_IMAGE - Static variable in class com.zcs.sdk.fingerprint.FingerResult

mFPlusCommitPerso() - Method in class com.zcs.sdk.card.RfCard

L0 L1 L3

mFPlusCommitPerso(byte, byte[]) - Method in class com.zcs.sdk.card.RfCard

mFPlusFirstAuthen(byte[], byte[]) - Method in class com.zcs.sdk.card.RfCard

mFPlusL3Read(byte[], byte, byte[]) - Method in class com.zcs.sdk.card.RfCard L3

mFPlusL3Write(byte[], byte, byte[]) - Method in class com.zcs.sdk.card.RfCard

mFPIusWritePerso(byte[]) - Method in class com.zcs.sdk.card.RfCard

mFSetFelicaTime(int) - Method in class com.zcs.sdk.card.RfCard

ABCDEFGHILMNOPRSTUVW

OVERVIEW PACKAGE CLASS TREE **INDEX**

com.zcs.sdk.bluetooth

Interfaces

BluetoothListener

Classes

BluetoothManager

CardInfoEntity occurences:

- com.zcs.sdk.card.CardInfoEntitycom.zcs.sdk.card.CardInfoEntity.CardInfoEntity()

LogUtils occurences:

- com.zcs.sdk.util.LogUtilscom.zcs.sdk.util.LogUtils.LogUtils()

StringUtils occurences:

- com.zcs.sdk.util.StringUtilscom.zcs.sdk.util.StringUtils.StringUtils()

debugHexMsg occurences:

- com.zcs.sdk.Sys.debugHexMsg(byte[], byte[], int)com.zcs.sdk.util.LogUtils.debugHexMsg(String, byte[])

decodeTripleDES occurences:

- com.zcs.sdk.util.MessageDigestUtils.decodeTripleDES(int, String, String)
- com.zcs.sdk.util.MessageDigestUtils.decodeTripleDES(byte[], byte[])
- com.zcs.sdk.util.MessageDigestUtils.decodeTripleDES(String, String)
- com.zcs.sdk.util.MessageDigestUtils.decodeTripleDES(int, byte[], byte[])

emv occurences:

- com.zcs.sdk.bluetooth.emv.BluetoothHandler.emv(CardReaderTypeEnum, int, String, int)
 com.zcs.sdk.bluetooth.emv.BluetoothHandler.emv(CardReaderTypeEnum, int, int)

error occurences:

- com.zcs.sdk.fingerprint.Result.errorcom.zcs.sdk.util.LogUtils.error(String)

$getModeType\,occurences:$

- enum in com.zcs.sdk.pin.PinAlgorithmMode.getModeType()enum in com.zcs.sdk.pin.PinAlgorithmModeEnum.getModeType()

readProtectedData occurences:

- com.zcs.sdk.card.SLE4428Card.readProtectedData(int, int, byte[])com.zcs.sdk.card.SLE4442Card.readProtectedData(byte[])

searchCard occurences:

- com.zcs.sdk.bluetooth.emv.BluetoothHandler.searchCard(CardReaderTypeEnum, int)
- com.zcs.sdk.card.CardReaderManager.searchCard(CardReaderTypeEnum, int, byte, OnSearchCardListener)
- com.zcs.sdk.card.CardReaderManager.searchCard(CardReaderTypeEnum, int, OnSearchCardListener)
- com.zcs.sdk.exteranl.ExternalCardManager.searchCard(byte, int, OnSearchCardListener)

setCardType occurences:

- com.zcs.sdk.card.lCCard.setCardType(boolean)
 com.zcs.sdk.card.MagCard.setCardType(boolean)
 com.zcs.sdk.card.RfCard.setCardType(boolean)
 com.zcs.sdk.exteranl.lCCard.setCardType(boolean)

startInputPin occurences:

- com.zcs.sdk.bluetooth.emv.BluetoothHandler.startInputPin(byte, byte, int, boolean)
 com.zcs.sdk.pin.pinpad.PinPadManager.startInputPin(byte, byte, int, boolean)

writeData occurences:

- com.zcs.sdk.card.SLE4428Card.writeData(int, int, byte[])com.zcs.sdk.card.SLE4442Card.writeData(byte, byte, byte[])

JavaScript is disabled on your browser.

OVERVIEW PACKAGE CLASS TREE INDEX

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

com.zcs.sdk.listener

Interface OnSearchAndRecvListener

public interface OnSearchAndRecvListener

A callback that notifies card searched or external port data received.

Method Summary

All Methods	Instance Methods	Abstract Methods	
Modifier and Ty	rpe Method and De	escription	
voi d	•	ardInfoEnti ty carInfo ne card search is success	
voi d	onError(int r Called when th	resul tCode) ne card search is failed	
voi d		rtRcv(int dataLen, by ne external serial port re	
voi d	onNoCard(Card Only using for	dReaderTypeEnum card1 testing.	Гуре, boolean fla

Method Detail

onCardInfo

void onCardInfo(CardInfoEntity carInfo)

Called when the card search is successful

Parameters:

carInfo - CardInfoEntity

onError

void onError(int resultCode)

Called when the card search is failed

Parameters:

resultCode -

onExternalPortRcv

Called when the external serial port receives data. Sys. external PortRcv(int[], byte[]) and Sys. external PortSend(int, byte[])

Parameters:

dataLen - the length of received data data - received data

onNoCard

Only using for testing. No need to implement

Parameters:

cardType -

flag -

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METHOD

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PREV CLASS NEXT CLASS FRAMES NO FRAMES **ALL CLASSES**

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR |

METHOD

com.zcs.sdk

Class Sys

java.lang.Object com.zcs.sdk.Sys

public class Sys extends j ava. l ang. Object

Nested Class Summary

Nested Classes

Modifier and Type Class and Description

static interface Sys. UpdateLi stener

Interface definition for a callback to be invoked when firmware is

update

Method Summary

All Methods Static Methods	ethods	Instance Methods	Concrete Methods	
Modifier and Type	Method and Description			
voi d	<pre>debugHexMsg(byte[] msg, byte[] buffer, int length)</pre>			
int	DevIni t	WithParam(byte[] key)	
int	<pre>downloadPubKey(int[] len, byte[] key)</pre>			
int	external PortRcv(int[] dataLen, byte[] data) Gets data from an external serial port.			
int	external PortSend(int dataLen, byte[] data) Send data to an external serial port			
int	getBaseSdkVer(j ava. I ang. String[] version) Read base sdk version			
static ConnectTypeEnum	getConnectType()			
int	getCustomSn(j ava. I ang. String[] customNo) Read the custom serial number			
int	<pre>getDeviceInfo(byte[] info, byte[] infoLen)</pre>			

int	getDevName(j ava. I ang. String[] devName) Read device name
int	getFirmwareVer(j ava. I ang. String[] version) Read the firmware version number
int	getPid(j ava. I ang. String[] pid) Read device pid
byte[]	getRandom(byte length) Get random array
j ava. I ang. Stri ng	getSdkVersi on() Read sdk version
int	getSN(j ava. I ang. Stri ng[] sn) Read terminal serial number
int	getSpStatus(byte[] posStatus) Gets the pos security status
i nt	install App (android. content. Context context, java. I ang. String appFilePath) Silently install the specified application
voi d	install App2 (android. content. Context context, java. I ang. String appFilePath) Silently install the specified application without a return value
voi d	install App2NoAuth(android.content.Context context, java.lang.String appFilePath) Systems that restrict app installation can be installed silently through this interface.There is no return value
i nt	readPubKey(int[] len, byte[] key) Read public key
i nt	requestUnlock(byte[] encData) Device unlock request that returns public key encrypted data
voi d	resetSetti ngsPi n(androi d. content. Context context) Restore the login password of Settings (customized system is available)
int	sdkInit() Init sdk.
int	sdkInit(ConnectTypeEnum type) Initsdk.
int	sdkInitWithParam(byte[] key)
int	setCustomSn(j ava. I ang. String customNo) Set custom serial number

int	setDeviceInfo(byte[] info, int infoLen)
int	setExternal Port(byte isOpen, int uiBaut, byte[] PubKeyStatus) Set the external serial port switch state
voi d	setSystemClock(android.content.Context context, java.lang.String datetime) Set system time
voi d	showLog(bool ean isShow) Defines whether sdk show log
int	sysPowerOff() Power off
int	sysPowerOn() Power on
int	uni nstal App(androi d. content. Context context, j ava. ang. Stri ng packageName) Silently uninstall the specified application
voi d	uni nstal App2(androi d. content. Context context, j ava. ang. Stri ng packageName) Silently uninstall the specified application without a return value
int	unlock(int len, byte[] encData) Unlock device
voi d	updateFirmware(java.io.File file, Sys.UpdateListener listener) Update firmware
voi d	updateFirmware(java.io.InputStream inputStream, Sys.UpdateListener listener) Update firmware

Methods inherited from class java.lang.Object

 $equals, \ getClass, \ hashCode, \ notify, \ notifyAll, \ toString, \ wait, \ wait$

Method Detail

debugHexMsg

```
int length)
```

DevInitWithParam

public int DevInitWithParam(byte[] key)

downloadPubKey

externalPortRcv

Gets data from an external serial port. When there is no data, the length returned is 0

Parameters:

dataLen - the length of received data

data - received data

Returns:

SdkResul t

externalPortSend

Send data to an external serial port

Parameters:

dataLen - the length of data to send

data - data to send

Returns:

SdkResul t

getBaseSdkVer

public int getBaseSdkVer(j ava.lang.String[] version)

Read base sdk version

Parameters:

version - version is the first string of string array

Returns:

SdkResul t

```
getConnectType
```

public static ConnectTypeEnum getConnectType()

getCustomSn

public int getCustomSn(java.lang.String[] customNo)

Read the custom serial number

Parameters:

customNo - custom serial number

Returns:

SdkResul t

getDeviceInfo

getDevName

public int getDevName(j ava.lang.String[] devName)

Read device name

Parameters:

devName - device name

Returns:

SdkResul t

getFirmwareVer

public int getFirmwareVer(java.lang.String[] version)

Read the firmware version number

Parameters:

version - version is the first string of string array

Returns:

SdkResul t

getPid

public int getPid(j ava.lang.String[] pid)
Read device pid

```
Parameters:
     pid - 24-bytes terminal pid
Returns:
     SdkResul t
getRandom
public byte[] getRandom(byte length)
Get random array
Parameters:
     length - the length of the generate random
Returns:
     random byte array
getSdkVersion
public java.lang.String getSdkVersion()
Read sdk version
Returns:
     the sdk version
getSN
public int getSN(java.lang.String[] sn)
Read terminal serial number
Parameters:
     sn - 16-bytes terminal serial number
Returns:
     SdkResul t
getSpStatus
public int getSpStatus(byte[] posStatus)
Gets the pos security status
Parameters:
     posStatus - pos security status
Returns:
```

SdkResul t

```
installApp
```

Returns:

SdkResul t

installApp2

```
public void installApp2(android.content.Context context, java.lang.String appFilePath)

Silently install the specified application without a return value

Parameters:

context - android environment context

appFilePath - absolute path of the apk file, e.g. /data/media /0/android_meituan.apk
```

installApp2NoAuth

Systems that restrict app installation can be installed silently through this interface. There is no return value

Parameters:

```
context - android environment context appFilePath - absolute path of the apk file, e.g. /data/media/0/android_meituan.apk
```

readPubKey

key - public key

Returns:

SdkResul t

requestUnlock

public int requestUnlock(byte[] encData)

Device unlock request that returns public key encrypted data

Parameters:

encData - returns 256 bytes of encrypted data

Returns:

SdkResul t

resetSettingsPin

public void resetSettingsPin(android.content.Context context)

Restore the login password of Settings (customized system is available)

Parameters:

context - android environment context

sdkInit

public int sdkInit()

Init sdk. Must be initialized to use other features.

Returns:

SdkResul t

sdkInit

public int sdkInit(ConnectTypeEnum type)

Init sdk. Must be initialized to use other features.

Parameters:

type - Connection type enum

Returns:

SdkResul t

```
public int sdkInitWithParam(byte[] key)
```

setCustomSn

public int setCustomSn(j ava.lang.String customNo)
Set custom serial number

Parameters:

customNo - custom serial number

Returns:

SdkResul t

setDeviceInfo

setExternalPort

Set the external serial port switch state

Parameters:

isOpen - 0x01 to open, 0x02 to close

ui Baut -

00 115200 01: 9600 02 14400 03: 19200 04 28800 05: 38400 06 57600

This baud rate only exists when mode is enabled

PubKeyStatus - public key status

Returns:

SdkResul t

setSystemClock

Set system time

Parameters:

context - android environment context

datetime - The format of time is yyyyMMddHHmmss, e.g. 20180731132250

```
showLog
```

public void showLog(boolean isShow)
Defines whether sdk show log

Parameters:

isShow - true to show log

sysPowerOff

public int sysPowerOff()

Power off

Returns:

SdkResul t

sysPowerOn

public int sysPowerOn()

Power on

Returns:

SdkResul t

uninstallApp

Silently uninstall the specified application

Parameters:

context - android environment context

packageName - package name, e.g. com. szzcs. smartpos

Returns:

SdkResul t

uninstallApp2

Silently uninstall the specified application without a return value

Parameters:

context - android environment context

```
packageName - package name, e.g. com. szzcs. smartpos
```

unlock

public int unlock(int len,

byte[] encData)

Unlock device

Parameters:

len - the length of encrypted data

encData - encrypted data

Returns:

SdkResul t

updateFirmware

public void updateFirmware(java.io.File file,

Sys. UpdateListener listener)

Update firmware

Parameters:

file - firmware file

listener - the firmware update notification listener

updateFirmware

public void updateFirmware(j ava.io.InputStream inputStream,

Sys. UpdateListener listener)

Update firmware

Parameters:

inputStream -

listener - the firmware update notification listener

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ALL CLASSES

Hierarchy For Package com.zcs.sdk

Package Hierarchies:

All Packages

Class Hierarchy

- java.lang.Object
 - com.zcs.sdk.Beeper
 - com.zcs.sdk.DriverManager
 - com.zcs.sdk.Led
 - com.zcs.sdk.Printer
 - com.zcs.sdk.SdkData
 - com.zcs.sdk.SdkResult
 - com.zcs.sdk.Sys

Interface Hierarchy

• com.zcs.sdk.Sys.UpdateListener

Enum Hierarchy

- java.lang.Object
 - java.lang.Enum<E> (implements java.lang.Comparable<T>, java.io.Serializable)
 - com.zcs.sdk.ConnectTypeEnum
 - com.zcs.sdk.LedLightModeEnum

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

com.zcs.sdk.card

Class SLE4442Card

java.lang.Object com.zcs.sdk.card.SLE4442Card

public class SLE4442Card extends java. I ang. Object

Method Summary

All Methods	Instance Methods Concrete Methods
Modifier and Ty	pe Method and Description
int	changeKey(byte[] key) Change key
int	i ni t() 4442 card initialization, detection of the first 4 bytes of content
int	<pre>readData(byte startAddr, byte readLen, byte[] outData) Read card data</pre>
int	readErrCountAndKey(byte[] key) Read error counts and key
int	readProtectedData(byte[] outData) Read whether the data in the card is protected.
int	veri fyKey(byte[] key) Authentication password on 4442 card.
int	writeData(byte startAddr, byte writeLen, byte[] inData) Write card data
int	<pre>wri teProtectedData(byte startAddr, byte writeLen, byte[] inData) Write protected bit.If data once write, it can not be changed</pre>

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Method Detail

changeKey

```
public int changeKey(byte[] key)
Change key
```

Parameters:

key -

Returns:

init

```
public int init()
4442 card initialization, detection of the first 4 bytes of content
```

Returns:

readData

Read card data

Parameters:

startAddr - start address

readLen - length of read data

outData - read data

Returns:

readErrCountAndKey

```
public int readErrCountAndKey(byte[] key)
Read error counts and key
```

Parameters:

```
key - The first byte is the number of key validations(0x07: 3, 0x06: 2, 0x04: 1) Last 2 bytes are key. It will be 0x00 if the key is not verified
```

Returns:

readProtectedData

```
public int readProtectedData(byte[] outData)
```

Read whether the data in the card is protected. It will return a byte array that every byte means data at the same location in the card is protected

```
Parameters:
     outData - length is 32 bytes. 0x30: protected, 0x31: unprotected
Returns:
verifyKey
public int verifyKey(byte[] key)
Authentication password on 4442 card. Default is 2-byte FF
Parameters:
     key -
Returns:
writeData
public int writeData(byte startAddr,
                      byte writeLen,
                      byte[] inData)
Write card data
Parameters:
     startAddr - start address
     writeLen - the length of data to write
     inData - data to write
Returns:
writeProtectedData
public int writeProtectedData(byte startAddr,
                                byte writeLen,
                                byte[] inData)
Write protected bit. If data once write, it can not be changed
Parameters:
     startAddr - start address, 0x00-0x1f
     writeLen - the length of data to write, 1-32
     inData - the data to write
Returns:
```

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

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V

valueOf(String) - Static method in enum com.zcs.sdk.bluetooth.emv.CardDetectedEnum Returns the enum constant of this type with the specified name.

valueOf(String) - Static method in enum com.zcs.sdk.bluetooth.emv.EmvStatusEnum

Returns the enum constant of this type with the specified name.

valueOf(String) - Static method in enum com.zcs.sdk.bluetooth.emv.NFCCardType Returns the enum constant of this type with the specified name.

valueOf(String) - Static method in enum com.zcs.sdk.card.CardReaderTypeEnum Returns the enum constant of this type with the specified name.

valueOf(String) - Static method in enum com.zcs.sdk.card.CardSlotNoEnum

Returns the enum constant of this type with the specified name.

valueOf(String) - Static method in enum com.zcs.sdk.card.MagEncryptTypeEnum Returns the enum constant of this type with the specified name.

valueOf(String) - Static method in enum com.zcs.sdk.card.RfCardTypeEnum Returns the enum constant of this type with the specified name.

valueOf(String) - Static method in enum com.zcs.sdk.ConnectTypeEnum

Returns the enum constant of this type with the specified name.

valueOf(String) - Static method in enum com.zcs.sdk.LedLightModeEnum

Returns the enum constant of this type with the specified name.

valueOf(String) - Static method in enum com.zcs.sdk.pin.MagEncryptTypeEnum Returns the enum constant of this type with the specified name.

valueOf(String) - Static method in enum com.zcs.sdk.pin.PinAlgorithmMode

Returns the enum constant of this type with the specified name.

valueOf(String) - Static method in enum com.zcs.sdk.pin.PinAlgorithmModeEnum

Returns the enum constant of this type with the specified name.

valueOf(String) - Static method in enum com.zcs.sdk.pin.PinEncryptTypeEnum

Returns the enum constant of this type with the specified name. valueOf(String) - Static method in enum com.zcs.sdk.pin.PinMacTypeEnum

Returns the enum constant of this type with the specified name.

valueOf(String) - Static method in enum com.zcs.sdk.pin.pinpad.PinKeyboardViewModeEnum Returns the enum constant of this type with the specified name.

valueOf(String) - Static method in enum com.zcs.sdk.pin.PinWorkKeyTypeEnum

Returns the enum constant of this type with the specified name.

 $value Of (String) \ - \ Static \ method \ in \ enum \ com.zcs.sdk.print.PrnAlignType Enum$

Returns the enum constant of this type with the specified name.

 $value Of (String) - Static \ method \ in \ enum \ com.zcs.sdk.print.PrnFont Size Type Enum$

Returns the enum constant of this type with the specified name. valueOf(String) - Static method in enum com.zcs.sdk.print.PrnSpeedTypeEnum

Returns the enum constant of this type with the specified name.

 $value Of (String) \ - \ Static \ method \ in \ enum \ com.zcs.sdk.print.PrnTextFont$

Returns the enum constant of this type with the specified name. valueOf(String) - Static method in enum com.zcs.sdk.print.PrnTextStyle

Returns the enum constant of this type with the specified name.

values() - Static method in enum com.zcs.sdk.bluetooth.emv.CardDetectedEnum

Returns an array containing the constants of this enum type, in the order they are declared.

values() - Static method in enum com.zcs.sdk.bluetooth.emv.EmvStatusEnum

Returns an array containing the constants of this enum type, in the order they are declared.

 $values () - Static\ method\ in\ enum\ com.zcs.sdk. bluetooth. emv. NFCC ard Type$

Returns an array containing the constants of this enum type, in the order they are declared.

values() - Static method in enum com.zcs.sdk.card.CardReaderTypeEnum

Returns an array containing the constants of this enum type, in the order they are declared. values() - Static method in enum com.zcs.sdk.card.CardSlotNoEnum

Returns an array containing the constants of this enum type, in the order they are declared. values() - Static method in enum com.zcs.sdk.card.MagEncryptTypeEnum

Returns an array containing the constants of this enum type, in the order they are declared. values() - Static method in enum com.zcs.sdk.card.RfCardTypeEnum

Returns an array containing the constants of this enum type, in the order they are declared. values() - Static method in enum com.zcs.sdk.ConnectTypeEnum

Returns an array containing the constants of this enum type, in the order they are declared. values() - Static method in enum com.zcs.sdk.LedLightModeEnum

Returns an array containing the constants of this enum type, in the order they are declared. values() - Static method in enum com.zcs.sdk.pin.MagEncryptTypeEnum

Returns an array containing the constants of this enum type, in the order they are declared. values() - Static method in enum com.zcs.sdk.pin.PinAlgorithmMode

Returns an array containing the constants of this enum type, in the order they are declared. values() - Static method in enum com.zcs.sdk.pin.PinAlgorithmModeEnum

Returns an array containing the constants of this enum type, in the order they are declared. values() - Static method in enum com.zcs.sdk.pin.PinEncryptTypeEnum

Returns an array containing the constants of this enum type, in the order they are declared. values() - Static method in enum com.zcs.sdk.pin.PinMacTypeEnum

Returns an array containing the constants of this enum type, in the order they are declared. values() - Static method in enum com.zcs.sdk.pin.pinpad.PinKeyboardViewModeEnum

Returns an array containing the constants of this enum type, in the order they are declared. values() - Static method in enum com.zcs.sdk.pin.PinWorkKeyTypeEnum

Returns an array containing the constants of this enum type, in the order they are declared. values() - Static method in enum com.zcs.sdk.print.PrnAlignTypeEnum

Returns an array containing the constants of this enum type, in the order they are declared. values() - Static method in enum com.zcs.sdk.print.PrnFontSizeTypeEnum

Returns an array containing the constants of this enum type, in the order they are declared. values() - Static method in enum com.zcs.sdk.print.PrnSpeedTypeEnum

Returns an array containing the constants of this enum type, in the order they are declared. values() - Static method in enum com.zcs.sdk.print.PrnTextFont

Returns an array containing the constants of this enum type, in the order they are declared. values() - Static method in enum com.zcs.sdk.print.PrnTextStyle

Returns an array containing the constants of this enum type, in the order they are declared. VERIFY_NOT_MATCH - Static variable in class com.zcs.sdk.fingerprint.FingerResult

verifyKey(byte[]) - Method in class com.zcs.sdk.card.SLE4428Card Authentication password on 4428 card.

verifyKey(byte[]) - Method in class com.zcs.sdk.card.SLE4442Card

Authentication password on 4442 card.

verifyWithFeature(byte[]) - Method in class com.zcs.sdk.fingerprint.FingerprintManager Verify fingerprint feature with the finger on the sensor.

verifyWithISOFeature(byte[]) - Method in class com.zcs.sdk.fingerprint.FingerprintManager Verify fingerprint feature with the finger on the sensor.

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

com.zcs.sdk.listener

Interface OnSearchCardListener

public interface OnSearchCardListener A callback that notifies card searched

Method Summary

All Methods	Instance Methods	Abstract Methods	
Modifier and Ty	pe Method and Des	scription	
voi d	•	rdInfoEntity carInfo e card search is succes	
voi d	onError(int re Called when the	esul tCode) e card search is failed	
voi d	onNoCard(CardF Only using for to	ReaderTypeEnum card [*] esting.	Гуре, bool ean fl ag)

Method Detail

onCardInfo

void onCardInfo(CardInfoEntity carInfo)

Called when the card search is successful

Parameters:

carInfo - CardInfoEntity

onError

void onError(int resultCode)

Called when the card search is failed

Parameters:

resultCode -

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METHOD

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G

generate Bmp (byte[], String) - Method in class com.zcs.sdk. fingerprint. Fingerprint Manager Generate a Bitmap and store it to the specified path

get55Field() - Method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler

GET_IMAGE_TIMEOUT - Static variable in class com.zcs.sdk.fingerprint.FingerResult

getAli() - Method in class com.zcs.sdk.print.PrnStrFormat

Return text alignment

getAm() - Method in class com.zcs.sdk.print.PrnStrFormat

Return the AssetManager

getBaseSdkVer(String[]) - Method in class com.zcs.sdk.Sys

Read base sdk version

getBaseSysDevice() - Method in class com.zcs.sdk.DriverManager

Get the system manager

getBeeper() - Method in class com.zcs.sdk.DriverManager

Get the beeper manager

getBluetoothHandler() - Method in class com.zcs.sdk.DriverManager

Get the bluetooth device operation manager

getBluetoothListener() - Method in class com.zcs.sdk.bluetooth.BluetoothManager

 $getBmpWith8(byte[],\ String)\ -\ Method\ in\ class\ com.zcs.sdk.util. BitmapUtils$

8 + + +

getCardExistslot() - Method in class com.zcs.sdk.card.CardInfoEntity

getCardHolder() - Method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler

getCardNo() - Method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler

getCardNo() - Method in class com.zcs.sdk.card.CardInfoEntity

getCardReadManager() - Method in class com.zcs.sdk.DriverManager

Get card reader manager

getCardSlot() - Method in class com.zcs.sdk.card.CardInfoEntity

getClor() - Method in enum com.zcs.sdk.LedLightModeEnum

getConnectType() - Static method in class com.zcs.sdk.Sys

getCsn() - Method in class com.zcs.sdk.card.CardInfoEntity

getCustomSn(String[]) - Method in class com.zcs.sdk.Sys

Read the custom serial number

getDataWithCipherCode(String) - Method in class com.zcs.sdk.usb.UsbHandler

write commands to the reader, and return result

getDeviceInfo(byte[], byte[]) - Method in class com.zcs.sdk.Sys

getDevName(String[]) - Method in class com.zcs.sdk.Sys

Read device name

getEncrypTrackData(int) - Method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler

Read encrypted track two when ic card or rf card has read successfully

 $getEnrolledCount()-Method\ in\ class\ com.zcs.sdk. fingerprint. FingerprintManager$

Get the fingerprint database size

```
getEnrolledFingerprints() - Method in class com.zcs.sdk.fingerprint.FingerprintManager
     Get the list of fingerprint id in fingerprint database
getExpDate() - Method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler
getExpDate(String) - Method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler
getExpiredDate() - Method in class com.zcs.sdk.card.CardInfoEntity
getExternalCardManager() - Method in class com.zcs.sdk.DriverManager
     Gets the card reader manager for an external serial device
getFingerprintManager() - Method in class com.zcs.sdk.DriverManager
     Get the fingerprint manager
getFirmwareVer(String[]) - Method in class com.zcs.sdk.Sys
     Read the firmware version number
getFont() - Method in class com.zcs.sdk.print.PrnStrFormat
     Return print text style
getGBK(String) - Static method in class com.zcs.sdk.util.StringUtils
getICCard() - Method in class com.zcs.sdk.card.CardReaderManager
getIcCardStatus(CardSlotNoEnum) - Method in class com.zcs.sdk.card.ICCard
     Get ic card type
getIcCardStatus(byte) - Method in class com.zcs.sdk.exteranl.ICCard
getICCCard() - Method in class com.zcs.sdk.exteranl.ExternalCardManager
getIcSeq() - Method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler
getIDCard() - Method in class com.zcs.sdk.card.CardReaderManager
getIDCardUid(byte[]) - Method in class com.zcs.sdk.card.RfCard
getIDInfo() - Method in class com.zcs.sdk.card.IDCard
     Read ID card info 1.import ID card image decoding library: libwltdecode.so 2.the folder wltlib
     needs to be placed in the sdcard root path
getIDInfo(String) - Method in class com.zcs.sdk.card.IDCard
     Read ID card info
getInstance() - Static method in class com.zcs.sdk.bluetooth.BluetoothManager
getInstance(SmartPosJni) - Static method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler
getInstance(SmartPosJni) - Static method in class com.zcs.sdk.card.CardReaderManager
getInstance() - Static method in class com.zcs.sdk.DriverManager
getInstance(SmartPosJni) - Static method in class com.zcs.sdk.exteranl.ExternalCardManager
getInstance(SmartPosJni) - Static method in class com.zcs.sdk.fingerprint.FingerprintManager
getInstance(SmartPosJni) - Static method in class com.zcs.sdk.pin.pinpad.PinPadManager
getInstance() - Static method in class com.zcs.sdk.usb.UsbHandler
getLedDriver() - Method in class com.zcs.sdk.DriverManager
     Get the led manager
getLetterSpacing() - Method in class com.zcs.sdk.print.PrnStrFormat
     Return the paint's letter-spacing for text.
getMAGCard() - Method in class com.zcs.sdk.card.CardReaderManager
getMagCardParseInfo(byte[], byte[], byte[], byte[], byte[]) - Method in class
com.zcs.sdk.card.MagCard
     Parse the track data into plaintext from the magnetic card
```

```
getMagData() - Method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler
getMagEncryptData(int) - Method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler
getMagReadData() - Method in class com.zcs.sdk.card.MagCard
     Read the plaintext data of the magnetic card, and parse out the card number, expiration date,
getMagTrackData() - Method in class com.zcs.sdk.card.MagCard
     Read magnetic card track data without parsing
getModeType() - Method in enum com.zcs.sdk.pin.PinAlgorithmMode
getModeType() - Method in enum com.zcs.sdk.pin.PinAlgorithmModeEnum
getNFCCardType() - Method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler
getPadManager() - Method in class com.zcs.sdk.DriverManager
     Get the pinpad manager
getPath() - Method in class com.zcs.sdk.print.PrnStrFormat
     The path of custom text font
getPid(String[]) - Method in class com.zcs.sdk.Sys
     Read device pid
getPinBlock(byte, int, String, PinAlgorithmMode) - Method in class
com.zcs.sdk.bluetooth.emv.BluetoothHandler
     Get pinblock in OnBl uetoothEmvLi stener. onKeyEnter()
getPinBlock(byte, int, String) - Method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler
getPinBlock(String, byte, PinAlgorithmMode, int, byte[]) - Method in class
com.zcs.sdk.pin.pinpad.PinPadManager
getPrinter() - Method in class com.zcs.sdk.DriverManager
     Get the print operation manager
getPrinterStatus() - Method in class com.zcs.sdk.Printer
     Get print status
getPsim1CardStatus(CardSlotNoEnum) - Method in class com.zcs.sdk.card.ICCard
getPsim2CardStatus(CardSlotNoEnum) - Method in class com.zcs.sdk.card.ICCard
getRandom(byte) - Method in class com.zcs.sdk.Sys
     Get random array
getResultcode() - Method in class com.zcs.sdk.card.CardInfoEntity
getRetryCount() - Method in class com.zcs.sdk.bluetooth.BluetoothManager
getRetryCount() - Method in class com.zcs.sdk.usb.UsbHandler
     Get the retry count for the function of getDataWithCipherCode.
getRFCard() - Method in class com.zcs.sdk.card.CardReaderManager
getRfCardType() - Method in class com.zcs.sdk.card.CardInfoEntity
getRfCardType(byte[]) - Method in class com.zcs.sdk.card.RfCard
     Get rf card type
getRFuid() - Method in class com.zcs.sdk.card.CardInfoEntity
getSdkVersion() - Method in class com.zcs.sdk.Sys
     Read sdk version
getServiceCode() - Method in class com.zcs.sdk.card.CardInfoEntity
getSingleThreadExecutor() - Method in class com.zcs.sdk.DriverManager
     Get the internal single-thread thread pool
getSLE4428Card() - Method in class com.zcs.sdk.card.CardReaderManager
```

```
getSN(String[]) - Method in class com.zcs.sdk.Sys
     Read terminal serial number
getSpStatus(byte[]) - Method in class com.zcs.sdk.Sys
     Gets the pos security status
getStyle() - Method in class com.zcs.sdk.print.PrnStrFormat
     Return print text style
getTagValue(String) - Method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler
getTagValue(byte[], byte[]) - Method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler
getTextScaleX() - Method in class com.zcs.sdk.print.PrnStrFormat
     Return the horizontal skew factor for text.
getTextSize() - Method in class com.zcs.sdk.print.PrnStrFormat
     Return the text size.
getTimeout() - Method in class com.zcs.sdk.usb.UsbHandler
     Get the timeout value for the function of getDataWithCipherCode.
getTimeout() - Method in class com.zcs.sdk.usb.UsbReader
getTk1() - Method in class com.zcs.sdk.card.CardInfoEntity
getTk2() - Method in class com.zcs.sdk.card.CardInfoEntity
getTk3() - Method in class com.zcs.sdk.card.CardInfoEntity
getTrack() - Method in class com.zcs.sdk.bluetooth.emv.BluetoothHandler
     Read track two when ic card or rf card has read successfully
getType() - Method in enum com.zcs.sdk.bluetooth.emv.NFCCardType
getType() - Method in enum com.zcs.sdk.card.CardReaderTypeEnum
getType() - Method in enum com.zcs.sdk.card.CardSlotNoEnum
getType() - Method in enum com.zcs.sdk.card.MagEncryptTypeEnum
getType() - Method in enum com.zcs.sdk.card.RfCardTypeEnum
getType() - Method in enum com.zcs.sdk.ConnectTypeEnum
getType() - Method in enum com.zcs.sdk.pin.MagEncryptTypeEnum
getType() - Method in enum com.zcs.sdk.pin.PinEncryptTypeEnum
getType() - Method in enum com.zcs.sdk.pin.PinMacTypeEnum
getType() - Method in enum com.zcs.sdk.pin.PinWorkKeyTypeEnum
getType() - Method in enum com.zcs.sdk.print.PrnAlignTypeEnum
getType() - Method in enum com.zcs.sdk.print.PrnFontSizeTypeEnum
getType() - Method in enum com.zcs.sdk.print.PrnSpeedTypeEnum
getUart() - Method in class com.zcs.sdk.DriverManager
     Get the uart manager
ABCDEFGHILMNOPRSTUVW
```

getSLE4442Card() - Method in class com.zcs.sdk.card.CardReaderManager

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Package com.zcs.sdk.pin.pinpad

Interface Summary

Interface Description

PinPadManager.OnPinPadInputListener

Class Summary

Class Description

PinPadManager

PinPadPasswordActivity

Enum Summary

Enum Description

PinKeyboardViewModeEnum

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com zcs sdk bluetooth emy

Interfaces

OnBluetoothEmvListener

Classes

BluetoothHandler

Enums

CardDetectedEnum EmvStatusEnum NFCCardType

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Packages

Package	Description	
com.zcs.sdk		
com.zcs.sdk	abluetooth	
com.zcs.sdk	a.bluetooth.emv	
com.zcs.sdk	c.card	
com.zcs.sdk	exteranl	
com.zcs.sdk	afingerprint	
com.zcs.sdk	listener	
com.zcs.sdk	a.pin	
com.zcs.sdk	a.pin.pinpad	
com.zcs.sdk	c.print	
com.zcs.sdk	a.usb	
com.zcs.sdk	c.util	

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FRAMES NO FRAMES

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ALL CLASSES

METHOD

com.zcs.sdk.util

Class BitmapUtils

java.lang.Object com.zcs.sdk.util.BitmapUtils

public class BitmapUtils extends java. I ang. Object

Constructor Summary

Constructors

Constructor and Description

Bi tmapUtils()

Method Summary

All Methods	Instance Methods
-------------	------------------

Concrete Methods

Modifier and Type

Method and Description

voi d

getBmpWi th8(byte[] bufferSrc, java.lang.String imgPath)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

BitmapUtils

public BitmapUtils()

Method Detail

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METHOD

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

com.zcs.sdk.fingerprint

Class FingerprintManager

java.lang.Object com.zcs.sdk.fingerprint.FingerprintManager

public class FingerprintManager extends java. lang. Object

Method Summary

	ic Methods Instance Methods Concrete Methods
Deprecated Method Modifier and Type	Method and Description
voi d	addFignerprintListener(FingerprintListener listener)
voi d	authenti cate() Fingerprint internal database authentication.
voi d	authenticate(int timeout) Fingerprint internal database authentication.
voi d	authenticate(int fingerld, int timeout) Fingerprint internal database authentication.
voi d	cancel Authenti cati on() Deprecated.
voi d	cancel Enrol I ment() Deprecated.
voi d	capture() Capture fingerprint image.
voi d	capture(int timeout) Capture fingerprint image.
voi d	captureAndGetFeature() Capture fingerprint and get feature.
voi d	captureAndGetFeature(int timeout) Capture fingerprint and get feature.
voi d	captureAndGetISOFeature() Capture fingerprint and get feature.

voi d	captureAndGetISOFeature(int timeout) Capture fingerprint and get feature.
bool ean	close() Close fingerprint module
voi d	destroy() Destroy fingerprint module, and release cache
voi d	enrollment() Enroll fingerprint and storage in internal storage.
voi d	enrollment(int fingerld) Enroll fingerprint and storage in internal storage.
voi d	enrollment(int fingerld, int timeout) Enroll fingerprint and storage in internal storage.
voi d	enrollment(int fingerld, int count, int timeout) Enrollfingerprint.
androi d. graphi cs. Bi tmap	generateBmp(byte[] buffer, java.lang.String path) Generate a Bitmap and store it to the specified path
Resul t	getEnrolledCount() Get the fingerprint database size
Resul t	getEnrol I edFi ngerpri nts() Get the list of fingerprint id in fingerprint database
static FingerprintManager	getInstance(com. zcs. base. SmartPosJni jni)
bool ean	hasEnrolledFingerprints(int fingerld) Deprecated.
voi d	<pre>i denti fyWi thFeature(byte[] feature) Verify fingerprint feature with the finger in the module internal storage.</pre>
voi d	i denti fyWi thI S0Feature(byte[] feature) Verify fingerprint feature with the finger in the module internal storage.
bool ean	i ni t() Init fingerprint module
int	remove(int fingerid) Delete the fingerprint in the internal fingerprint database
int	removeAll() Clear the internal fingerprint database
voi d	removeFignerprintListener(FingerprintListener listener)
voi d	setTimeout(int timeout)

void veri fyWi thFeature(byte[] feature)

Verify fingerprint feature with the finger on the sensor.

void veri fyWithISOFeature(byte[] feature)

Verify fingerprint feature with the finger on the sensor.

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Method Detail

addFignerprintListener

public void addFignerprintListener(FingerprintListener listener)

authenticate

public void authenticate()

Fingerprint internal database authentication. It will trigger

FingerprintListener.onAuthenticationSucceeded(int, Object) or

FingerprintListener. onAuthenticationFailed(int)

authenticate

public void authenticate(int timeout)

Fingerprint internal database authentication. It will trigger

FingerprintListener.onAuthenticationSucceeded(int, Object) or

FingerprintListener. onAuthenticationFailed(int)

Parameters:

timeout - the max and default timeout is 3s

authenticate

public void authenticate(int fingerld,

int timeout)

Fingerprint internal database authentication. It will trigger

FingerprintListener.onAuthenticationSucceeded(int, Object) or

FingerprintListener. onAuthenticationFailed(int)

Parameters:

fingerld - the id number of fingerprint, 0~63

timeout - the max and default timeout is 3s

cancelAuthentication

@Deprecated

public void cancel Authentication()

Deprecated.

cancelEnrollment

@Deprecated

public void cancelEnrollment()

Deprecated.

capture

public void capture()

Capture fingerprint image. It will trigger Fi ngerpri ntLi stener. onGetI mageCompl ete(i nt, byte[])

capture

public void capture(int timeout)

Capture fingerprint image. It will trigger Fi ngerpri ntLi stener. onGetI mageCompl ete(i nt, byte[])

Parameters:

timeout - the max and default timeout is 3s

captureAndGetFeature

public void captureAndGetFeature()

Capture fingerprint and get feature. It will trigger

FingerprintListener.onGetImageFeature(int, byte[])

captureAndGetFeature

public void captureAndGetFeature(int timeout)

Capture fingerprint and get feature. It will trigger

FingerprintListener.onGetImageFeature(int, byte[])

Parameters:

timeout - the max and default timeout is 3s

captureAndGetISOFeature

public void captureAndGetISOFeature()
Capture fingerprint and get feature. It will trigger
FingerprintListener.onGetImageFeature(int, byte[])

captureAndGetISOFeature

public void captureAndGetISOFeature(int timeout)
Capture fingerprint and get feature. It will trigger
FingerprintListener.onGetImageISOFeature(int, byte[])

close

public boolean close()
Close fingerprint module

Returns:

true if close successfully

destroy

public void destroy()
Destroy fingerprint module, and release cache

enrollment

public void enrollment()

Enroll fingerprint and storage in internal storage. The default fingerprint id is 0. It will trigger FingerprintListener. onEnrollmentProgress(int, int, int)

enrollment

public void enrollment(int fingerld)

Enroll fingerprint and storage in internal storage. It will trigger FingerprintListener.onEnrollmentProgress(int, int, int)

Parameters:

fingerld - the id number of fingerprint, 0~63

enrollment

Enroll fingerprint and storage in internal storage. It will trigger

```
FingerprintListener.onEnrollmentProgress(int, int, int)

Parameters:

fingerId - the id number of fingerprint, 0~63

timeout - the max and default timeout is 3s
```

enrollment

generateBmp

getEnrolledCount

```
public Result getEnrolledCount()
Get the fingerprint database size
Returns:
    Result
```

getEnrolledFingerprints

```
public Result getEnrolledFingerprints()
Get the list of fingerprint id in fingerprint database
```

Returns:

Result

getInstance

public static FingerprintManager getInstance(com. zcs. base. SmartPosJni jni)

hasEnrolledFingerprints

@Deprecated

public boolean hasEnrolledFingerprints(int fingerld)

Deprecated.

identifyWithFeature

public void identifyWithFeature(byte[] feature)

Verify fingerprint feature with the finger in the module internal storage. It will trigger Fi ngerpri ntLi stener. onAuthenti cati onSucceeded(i nt, Obj ect) or Fi ngerpri ntLi stener. onAuthenti cati onFailed(i nt)

Parameters:

feature - fingerprint feature

identifyWithISOFeature

public void identifyWithISOFeature(byte[] feature)

Verify fingerprint feature with the finger in the module internal storage. It will trigger Fi ngerpri ntLi stener. onAuthenti cati onSucceeded(i nt, Obj ect) or Fi ngerpri ntLi stener. onAuthenti cati onFailed(i nt)

Parameters:

feature - fingerprint ISO feature

init

public boolean init()
Init fingerprint module

Returns:

true if init successfully

remove

public int remove(int fingerid)

Delete the fingerprint in the internal fingerprint database

Parameters:

fingerid - the id number of fingerprint, 0~63

Returns:

FingerResult

removeAll

public int removeAll()

Clear the internal fingerprint database

Returns:

FingerResult

removeFignerprintListener

public void removeFignerprintListener(FingerprintListener listener)

setTimeout

public void setTimeout(int timeout)

verifyWithFeature

public void verifyWithFeature(byte[] feature)

Verify fingerprint feature with the finger on the sensor. It will trigger FingerprintListener. onAuthenticationSucceeded(int, Object) or FingerprintListener. onAuthenticationFailed(int)

Parameters:

feature - fingerprint feature

verifyWithISOFeature

public void verifyWithISOFeature(byte[] feature)

Verify fingerprint feature with the finger on the sensor. It will trigger Fi ngerpri ntLi stener. onAuthenti cati onSucceeded(i nt, Obj ect) or Fi ngerpri ntLi stener. onAuthenti cati onFailed(i nt)

Parameters:

feature - fingerprint ISO feature

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ALL CLASSES

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METHOD

com.zcs.sdk

Class DriverManager

java.lang.Object com.zcs.sdk.DriverManager

public class DriverManager extends j ava. l ang. Object

Constructor Summary

Constructors

Constructor and Description

Dri verManager()

Method Summary

All Methods Static Methods	Instance Methods Concrete Methods
Modifier and Type	Method and Description
Sys	getBaseSysDevi ce() Get the system manager
Beeper	getBeeper() Get the beeper manager
BI uetoothHandl er	getBl uetoothHandl er() Get the bluetooth device operation manager
CardReaderManager	getCardReadManager() Get card reader manager
External CardManager	getExternal CardManager() Gets the card reader manager for an external serial device
Fi ngerpri ntManager	getFi ngerpri ntManager() Get the fingerprint manager
static DriverManager	getInstance()
Led	getLedDri ver() Get the led manager

Pi nPadManager getPadManager()

Get the pinpad manager

Printer getPrinter()

Get the print operation manager

java.util.concurrent.ExecutorService getSingleThreadExecutor()

Get the internal single-thread thread pool

com. zcs. sdk. Uart getUart()

Get the uart manager

void setJni (com. zcs. base. SmartPosJni smartP0sJni 1)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

DriverManager

public DriverManager()

Method Detail

getBaseSysDevice

public Sys getBaseSysDevice()

Get the system manager

Returns:

Sys

getBeeper

public Beeper getBeeper()

Get the beeper manager

Returns:

Beeper

```
getBluetoothHandler
```

public BluetoothHandler getBluetoothHandler()

Get the bluetooth device operation manager

Returns:

Bl uetoothHandl er

getCardReadManager

public CardReaderManager getCardReadManager()

Get card reader manager

Returns:

CardReaderManager

get External Card Manager

public External CardManager getExternal CardManager()

Gets the card reader manager for an external serial device

Returns:

External CardManager

getFingerprintManager

public FingerprintManager getFingerprintManager()

Get the fingerprint manager

Returns:

FingerprintManager

getInstance

public static DriverManager getInstance()

getLedDriver

public Led getLedDriver()

Get the led manager

Returns:

Led

getPadManager

public PinPadManager getPadManager()

Get the pinpad manager

Returns:

Pi nPadManager

getPrinter

public Printer getPrinter()

Get the print operation manager

Returns:

Pri nter

get Single Thread Executor

public java.util.concurrent.ExecutorService getSingleThreadExecutor()
Get the internal single-thread thread pool

Returns:

A single-thread thread pool

getUart

public com. zcs. sdk. Uart getUart()

Get the uart manager

Returns:

Uart

setJni

public void setJni (com. zcs. base. SmartPosJni smartPOsJni 1)

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SUMMARY: NESTED | ENUM CONSTANTS | FIELD | METHOD DETAIL: ENUM CONSTANTS | FIELD | METHOD

ALL CLASSES

com.zcs.sdk.pin

Enum PinMacTypeEnum

java.lang.Object

java.lang.Enum < PinMacTypeEnum> com.zcs.sdk.pin.PinMacTypeEnum

All Implemented Interfaces:

java.io. Serializable, java.lang. Comparable<PinMacTypeEnum>

public enum PinMacTypeEnum extends java. I ang. Enum<Pi nMacTypeEnum>

Enum Constant Summary

Enum Constants

Enum Constant and Description

ANSI _X_9_19

ANSI _X_9_9

ECB

XOR

Method Summary

All Methods	Static Me	thods	Instance Methods	Concrete Methods	
Modifier and Ty	pe	Method	and Description		
byte		getType()			
static PinMacTypeEnum		valueOf(j ava. I ang. String name) Returns the enum constant of this type with the specified name.			
static PinMacTypeEnum[]		Returns		e constants of this enum	type, in

Methods inherited from class java.lang.Enum

compareTo, equals, getDeclaringClass, hashCode, name, ordinal, toString, valueOf

Methods inherited from class java.lang.Object

getClass, notify, notifyAll, wait, wait, wait

Enum Constant Detail

ANSI_X_9_19

public static final PinMacTypeEnum ANSI_X_9_19

ANSI_X_9_9

public static final PinMacTypeEnum ANSI_X_9_9

ECB

public static final PinMacTypeEnum ECB

XOR

public static final PinMacTypeEnum XOR

Method Detail

getType

public byte getType()

valueOf

public static PinMacTypeEnum valueOf(java.lang.String name)

Returns the enum constant of this type with the specified name. The string must match *exactly* an identifier used to declare an enum constant in this type. (Extraneous whitespace characters are not permitted.)

Parameters:

name - the name of the enum constant to be returned.

Returns:

the enum constant with the specified name

Throws:

java.lang.lllegalArgumentException - if this enum type has no constant with the specified name

java.lang.NullPointerException - if the argument is null

values

public static PinMacTypeEnum[] values()

Returns an array containing the constants of this enum type, in the order they are declared. This method may be used to iterate over the constants as follows:

for (PinMacTypeEnum c : PinMacTypeEnum.values())
 System.out.println(c);

Returns:

an array containing the constants of this enum type, in the order they are declared

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SUMMARY: NESTED | ENUM CONSTANTS | FIELD | METHOD DETAIL: ENUM CONSTANTS | FIELD | METHOD

com.zcs.sdk.pin

Enum PinEncryptTypeEnum

java.lang.Object

java.lang.Enum<PinEncryptTypeEnum> com.zcs.sdk.pin.PinEncryptTypeEnum

All Implemented Interfaces:

java.io. Serializable, java.lang. Comparable<PinEncryptTypeEnum>

public enum PinEncryptTypeEnum
extends java.lang.Enum<PinEncryptTypeEnum>

Enum Constant Summary

Enum Constants

Enum Constant and Description

CRYPTO_TEXT

PI LAI N_TEXT

Method Summary

All Methods	Static Methods	Instance Methods	Concrete Methods	
Modifier and Type		Method and Description		
byte		getType()		
static PinEncryptTypeEnum		val ue0f(j ava. I ang. Stri Returns the enum constar name.	ng name) nt of this type with the specified	
static PinEncryptTypeEnum[]			ng the constants of this enum e declared.	

Methods inherited from class java.lang.Enum

compareTo, equals, getDeclaringClass, hashCode, name, ordinal, toString, valueOf

Methods inherited from class java.lang.Object

getClass, notify, notifyAll, wait, wait, wait

Enum Constant Detail

CRYPTO_TEXT

public static final PinEncryptTypeEnum CRYPTO_TEXT

PILAIN_TEXT

public static final PinEncryptTypeEnum PILAIN_TEXT

Method Detail

getType

public byte getType()

valueOf

public static PinEncryptTypeEnum valueOf(java.lang.String name)

Returns the enum constant of this type with the specified name. The string must match *exactly* an identifier used to declare an enum constant in this type. (Extraneous whitespace characters are not permitted.)

Parameters:

name - the name of the enum constant to be returned.

Returns:

the enum constant with the specified name

Throws:

java.lang.lllegalArgumentException - if this enum type has no constant with the specified name

java.lang.NullPointerException - if the argument is null

values

public static PinEncryptTypeEnum[] values()

Returns an array containing the constants of this enum type, in the order they are declared. This method may be used to iterate over the constants as follows:

for (PinEncryptTypeEnum c : PinEncryptTypeEnum.values())
 System.out.println(c);

Returns:

an array containing the constants of this enum type, in the order they are declared

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SUMMARY: NESTED | ENUM CONSTANTS | FIELD | METHOD DETAIL: ENUM CONSTANTS | FIELD | METHOD

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Package com.zcs.sdk.listener

Interface Summary Interface Description OnSearchAndRecvListener A callback that notifies card searched or external port data received. OnSearchCardListener

A callback that notifies card searched

ALL CLASSES

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

com.zcs.sdk.card

Class CardReaderManager

java.lang.Object com.zcs.sdk.card.CardReaderManager

public class CardReaderManager
extends java.lang.Object

Method Summary

All Methods S	atic Methods Instance Methods Concrete Methods			
Modifier and Type	Method and Description			
voi d	cancel SearchCard() Cancel card search.			
voi d	closeCard() Close the card reader module			
I CCard	getICCard()			
IDCard	getIDCard()			
static CardReade	Manager getInstance(com.zcs.base.SmartPosJni smartPo	getInstance(com. zcs. base. SmartPosJni smartPOsJni 1)		
MagCard	getMAGCard()			
RfCard	getRFCard()	getRFCard()		
SLE4428Card	getSLE4428Card()	getSLE4428Card()		
SLE4442Card	getSLE4442Card()	getSLE4442Card()		
voi d	searchCard(CardReaderTypeEnum searchCardType int timeout, byte rfCardType, OnSearchCardListener listener) Search card.	ı		
voi d	searchCard(CardReaderTypeEnum searchCardTypeint timeout, OnSearchCardListener listener) Search card.			
voi d	searchCardAndRecv(CardReaderTypeEnum searchCint timeout, byte rfCardType, OnSearchAndRecvListener listener) Search the card and receive external serial port datasame time			

voi d

searchCardAndRecv(CardReaderTypeEnum searchCardType, int timeout, OnSearchAndRecvListener listener)
Search the card and receive external serial port data at the same time

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Method Detail

cancelSearchCard

public void cancel SearchCard()
Cancel card search.

closeCard

public void closeCard()
Close the card reader module

getICCard

public ICCard getICCard()

getIDCard

public IDCard getIDCard()

getInstance

public static CardReaderManager getInstance(com. zcs. base. SmartPosJni smartPOsJni 1)

getMAGCard

public MagCard getMAGCard()

getRFCard

public RfCard getRFCard()

getSLE4428Card

public SLE4428Card getSLE4428Card()

getSLE4442Card

public SLE4442Card getSLE4442Card()

searchCard

public void searchCard(CardReaderTypeEnum searchCardType,

int timeout,
byte rfCardType,

OnSearchCardListener listener)

Search card. It will running in a sub thread and notify the result through callback

Parameters:

searchCardType - the card type to search

timeout - the seconds of card search timeout. Set 0 will keep searching util it has find card or return error

rfCardType - set rf card type. SdkData.RF_TYPE_A, SdkData.RF_TYPE_B, SdkData.RF_TYPE_FELICA

listener - the card search notification listener

searchCard

public void searchCard(CardReaderTypeEnum searchCardType,

int timeout.

OnSearchCardListener listener)

Search card. It will running in a sub thread and notify the result through callback

Parameters:

searchCardType - the card type to search

timeout - the seconds of card search timeout. Set 0 will keep searching util it has find card or return error

listener - the card search notification listener

searchCardAndRecv

public void searchCardAndRecv(CardReaderTypeEnum searchCardType,

int timeout,

byte rfCardType,

OnSearchAndRecvListener listener)

Search the card and receive external serial port data at the same time

Parameters:

searchCardType - the card type to search

timeout - the seconds of card search timeout. Set 0 will keep searching util it has find card or return error

rfCardType - set rf card type. SdkData.RF_TYPE_A, SdkData.RF_TYPE_B, SdkData.RF_TYPE_FELICA

listener - the card search notification listener

searchCardAndRecv

Search the card and receive external serial port data at the same time

Parameters:

searchCardType - the card type to search

timeout - the seconds of card search timeout. Set 0 will keep searching util it has find card or return error

listener - the card search notification listener

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ABCDEFGHILMNOPRSTUVW

Ν

NFCCardType - Enum in com.zcs.sdk.bluetooth.emv

NO_FINGER_DETECTED - Static variable in class com.zcs.sdk.fingerprint.FingerResult

NO_PERMISSION - Static variable in class com.zcs.sdk.fingerprint.FingerResult

NO_SUPPORTED_CMD - Static variable in class com.zcs.sdk.fingerprint.FingerResult

NO_TEMPLATE_ID - Static variable in class com.zcs.sdk.fingerprint.FingerResult

NO_VALID_IAMGE - Static variable in class com.zcs.sdk.fingerprint.FingerResult

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com.zcs.sdk.usb

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com.zcs.sdk.exteranl

Class ExternalCardManager

java.lang.Object com.zcs.sdk.exteranl.ExternalCardManager

public class External CardManager extends java. lang. Object

Method Summary

All Methods	Static Methods	Instance Methods	Concrete Methods	
Modifier and Type	e Met	hod and Description		
voi d		cel SearchCard() acel card search.		
voi d	clo	selCCard(byte slot)		
I CCard	get	ICCCard()		
static External	CardManager get	Instance(com. zcs. base	e.SmartPosJni smartPo	OsJni 1)
voi d	0nS	rchCard(byte slot, i earchCardListener li rch card.		
voi d	Sys	ateFirmware(java.io. .UpdateListener list date firmware		
voi d	Sys	ateFirmware(java.io. .UpdateListener list date firmware	InputStream inputStroener)	eam,

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Method Detail

cancelSearchCard

public void cancel SearchCard()
Cancel card search.

closeICCard

public void closelCCard(byte slot)

getICCCard

public ICCard getICCCard()

getInstance

public static External CardManager getInstance(com. zcs. base. SmartPosJni smartPOsJni 1)

searchCard

public void searchCard(byte slot,

int timeout.

OnSearchCardListener listener)

Search card. It will running in a sub thread and notify the result through callback

Parameters:

slot - card slot, 0x00~0x0f

timeout - the seconds of card search timeout. Set 0 will keep searching util it has find card or return error

listener - the card search notification listener

updateFirmware

public void updateFirmware(java.io.File file,

Sys. UpdateListener listener)

Update firmware

Parameters:

file - firmware file

listener - the firmware update notification listener

updateFirmware

public void updateFirmware(java.io.InputStream inputStream,

Sys. UpdateListener listener)

Update firmware

Parameters:

listener -

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com.zcs.sdk

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Sys. UpdateListener

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DriverManager

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Printer

SdkData

SdkResult

Sys

Enums

ConnectTypeEnum LedLightModeEnum

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