AL700SDK

Arizon
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Class Documentation

com.aidialinkl.sdk.AL700Control Class Reference

Inherits com.aidialinkl.sdk.BLEConnect.BLE.

Public Member Functions

- void **onData** (byte[] data)

Static Public Member Functions

- static synchronized void **sendData** (@NonNull final String command)
- static void **setExecutionCallBack** (@NonNull **Execution** execution)
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- static String **GetVersion** ()
- static String **GetMcuVersion** ()
- static String **GetFrequency** ()
- static String **GetFreqOffset** ()
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- static boolean **SetPower** (@IntRange(from=2, to=29) int power)
- static boolean **SetRegulation** (ReaderModule.RegulationType regulationType)
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- static void **Inventory** (@NonNull **InventoryMode** mode, @IntRange(from=0, to=10) int slot, @Nullable **SessionType** sessionType)
- static void **StopInventory** ()
- static void **setInventoryCallBack** (@NonNull **Inventory** inventory)
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- static **WriteResult WriteBank** (InventoryMode.BankType writeBank, int start, String data, @NonNull **SelectTarget** target)
- static **LockResult LockBank** (ReaderModule.LockBank bank, ReaderModule.LockType type, **SelectTarget** target)
- static **KillResult Kill** (**SelectTarget** target)
- static ReaderModule.VOLTAGE_LEVEL **QueryVL** ()
- static void **BlueToothStandByTime** (boolean linkType, @IntRange(from=0x00, to=0xFFFF) int seconds)
- static String **GetReaderID** ()
- static boolean **FlashEMTag** (**SelectTarget** target, int seconds)
- static double **GetEMTemperature** (**SelectTarget** target)
- static float **GetEMVoltage** (**SelectTarget** target)

Member Function Documentation

static void com.aidialinkl.sdk.AL700Control.BlueToothStandByTime (boolean *linkType*, @IntRange(from=0x00, to=0xFFFF) int *seconds*)`[static]`

Set bluetooth standby time

Parameters

linkType	Type boolean, link type
seconds	Type int, second(Unit: second)

static boolean com.aidialinkl.sdk.AL700Control.FlashEMTag (SelectTarget *target*, **int** *seconds***)** `[static]`

Flashing EM tag

Parameters

target	Type SelectTarget, flashing target
seconds	Type int, flashing seconds

Returns

Type boolean, True is run command successfully, otherwise, run command failed.

See also

SelectTarget

static double com.aidialinkl.sdk.AL700Control.GetEMTemperature (SelectTarget *target***)** `[static]`

Get EM tag's temperature

Parameters

target	Type SelectTarget, target

Returns

Type double, temperature of EM tag

See also

SelectTarget

static float com.aidialinkl.sdk.AL700Control.GetEMVoltage (SelectTarget *target***)** `[static]`

Get EM tag's voltage

Parameters

target	Type SelectTarget, target

Returns

Type float, voltage of EM tag

See also

SelectTarget

static String com.aidialinkl.sdk.AL700Control.GetMcuVersion () `[static]`

To get reader McuVersion

Returns

TypeString, Reader ModuleVersion

static int com.aidialinkl.sdk.AL700Control.GetPower () `[static]`

To get the Reader power

Returns

Type int, Reader power(dBm)

static String com.aidialinkl.sdk.AL700Control.GetReaderID () `[static]`

To get the Reader ID.

Returns

Type String, Reader ID.

static ReaderModule.RegulationType com.aidialinkl.sdk.AL700Control.GetRegulatory () `[static]`

To get the reader regulatory

Returns

Type **ReaderModule.RegulationType**, regulation value

See also

com.aidialinkl.sdk.ReaderModule.RegulationType

static String com.aidialinkl.sdk.AL700Control.GetVersion () `[static]`

To get the reader version

Returns

Type String, module FW version,module ID,HW version,Regulation.

static void com.aidialinkl.sdk.AL700Control.Inventory (@NonNull InventoryMode *mode*, @IntRange(from=0, to=10) int *slot*, @Nullable SessionType *sessionType*) `[static]`

Read tags function. User can read the tags by their define. After trigger this function, you must trigger **AL700Control#StopInventory**() to stop scan tags function. The scan result of scan will be output interface Inventory

Parameters

mode	Type InventoryMode, read mode
slot	Type int, read slot
sessionType	Type SessionType, read type

See also

Inventory

static KillResult com.aidialinkl.sdk.AL700Control.Kill (SelectTarget *target*) `[static]`

Kill Tag

Parameters

target	Type SelectTarget, kill target

Returns

KillResult

See also

SelectTarget

KillResult

static LockResult com.aidialinkl.sdk.AL700Control.LockBank (ReaderModule.LockBank *bank*, ReaderModule.LockType *type*, SelectTarget *target*) `[static]`

Lock Tag

Parameters

bank	Type **ReaderModule.LockBank**, lock bank
type	Type **ReaderModule.LockType**, lock type
target	Type SelectTarget, lock target

Returns

LockResult

See also

> **ReaderModule.LockBank**

> **ReaderModule.LockType**

> SelectTarget

static ReaderModule.VOLTAGE_LEVEL com.aidialinkl.sdk.AL700Control.QueryVL ()`[static]`

Query voltage

Returns

> **ReaderModule.VOLTAGE_LEVEL**

See also

> **ReaderModule.VOLTAGE_LEVEL**

static TagData com.aidialinkl.sdk.AL700Control.ReadBank (InventoryMode.BankType *readBank*, int *start*, int *length*, @Nullable SelectTarget *target*) throws Exception`[static]`

Read Tag

Parameters

readBank	Type InventoryMode.BankType, read bank
start	Type int, read bank's start position(Unit:word)
length	Type int, read length
target	Type SelectTarget, read target

Returns

> TagData

See also

> InventoryMode.BankType

> SelectTarget

> TagData

static void com.aidialinkl.sdk.AL700Control.removeBarCodeCallBack ()`[static]`

Stop receive the BarCodes from the reader. When this function is called, Controller will not send BarCode anymore till the **AL700Control#setBarCodeCallBack(BarCode)** is called.

static void com.aidialinkl.sdk.AL700Control.removeInventoryCallBack ()`[static]`

To stop receive scan result of tags. When a user user trigger button or launch **AL700Control#Inventory(InventoryMode, int, SessionType)** function, you will receive scan result of tags in the call back. You can stop receive the scan result by using this function

static synchronized void com.aidialinkl.sdk.AL700Control.sendData (@NonNull final String *command*)`[static]`

Send the custom command

Parameters

command	Type: String, custom command

static void com.aidialinkl.sdk.AL700Control.setBarCodeCallBack (@NonNull BarCode ***barCodeCallBack*****)`[static]`**

To receive BarCode from the reader, you must set the call back function in this function. When a user scan a BarCode on Reader, you will receive the BarCode data from the callback. You can stop receive the data by using **AL700Control#removeBarCodeCallBack()**

Parameters

barCodeCallBack	Call back function to get the BarCodes;

static void com.aidialinkl.sdk.AL700Control.setInventoryCallBack (@NonNull Inventory ***inventory*****)`[static]`**

To receive **AL700Control#Inventory(InventoryMode, int, SessionType)**, you must set the call back function in the function. When a user user trigger button or launch **AL700Control#Inventory(InventoryMode, int, SessionType)** function, you will receive scan result of tags in the call back. You can stop receive the scan result by using **AL700Control#StopInventory()**

Parameters

inventory	Call back function

static boolean com.aidialinkl.sdk.AL700Control.SetPower (@IntRange(from=2, to=29) int ***power*****)`[static]`**

Set reader read power

Parameters

power	Type int, read power from 2dBm to 29 dBm

Returns

Type boolean, True is set power successfully, otherwise, set power failed.

static boolean com.aidialinkl.sdk.AL700Control.SetRegulation (ReaderModule.RegulationType ***regulationType*****)`[static]`**

Set reader a new regulation

Parameters

regulationType	New regulation

Returns

Type boolean, True is regulation successfully, otherwise, set regulation failed.

See also

com.aidialinkl.sdk.ReaderModule.RegulationType

static void com.aidialinkl.sdk.AL700Control.StopInventory ()`[static]`

To stop **AL700Control#Inventory(InventoryMode, int, SessionType)** function.

See also

Inventory

static void com.aidialinkl.sdk.AL700Control.TriggerButton (@NonNull InventoryMode ***mode*****, @IntRange(from=0, to=10) int** ***slot*****, @Nullable SessionType** ***sessionType*****, @Nullable SelectTarget** ***target*****)`[static]`**

Set trigger button behavior. If this function is launched successfully, when the trigger button is press, it will based on the behavior you set in the function to scan tags.

Parameters

mode	Type InventoryMode, read mode
slot	Type int, read slot
sessionType	Type SessionType, read type
target	Type SelectTarget, read target

See also

InventoryMode

SelectTarget

SessionType

static WriteResult com.aidialinkl.sdk.AL700Control.WriteBank (InventoryMode.BankType *writeBank***, int** *start***, String** *data***, @NonNull SelectTarget** *target***)[static]**

Write Tag

Parameters

writeBank	Type Inventory.BankType, write bank
start	Type int, write bank's start position(Unit:word)
data	Type String, write data(Hex)
target	Type SelectTarget, write target

Returns

WriteResult

See also

InventoryMode.BankType

SelectTarget

WriteResult

The documentation for this class was generated from the following file:

● D:/Android Studio Project/AL-700 for Android/sdk/src/main/java/com/aidialinkl/sdk/AL700Control.java

com.aidialinkl.sdk.interfaces.AL700Interface Interface Reference

Public Member Functions

- void **connectionState** (boolean state)

Member Function Documentation

void com.aidialinkl.sdk.interfaces.AL700Interface.connectionState (boolean *state*)

To get connection state change

Parameters

state	Type boolean, True is the device is connected, otherwise, it is not connected.

The documentation for this interface was generated from the following file:

- D:/Android Studio Project/AL-700 for Android/sdk/src/main/java/com/aidialinkl/sdk/interfaces/AL700Interface.java

com.aidialinkl.sdk.object.InventoryMode.BankType Enum Reference

Public Member Functions

- **BankType** (int value)
- int **value** ()

Static Public Member Functions

- static **BankType valueOf** (int value)
- static String[] **names** ()

Public Attributes

- **RESERVE** =(0)
- **EPC** =(1)
- **TID** =(2)
- **USER** =(3)

The documentation for this enum was generated from the following file:

- D:/Android Studio Project/AL-700 for
  Android/sdk/src/main/java/com/aidialinkl/sdk/object/InventoryMode.java

com.aidialinkl.sdk.interfaces.BarCode Interface Reference

Public Member Functions

- void **onData** (String data)

The documentation for this interface was generated from the following file:

- D:/Android Studio Project/AL-700 for Android/sdk/src/main/java/com/aidialinkl/sdk/interfaces/BarCode.java

com.aidialinkl.sdk.BLEConnect Class Reference

Classes

- interface **BLE**

Public Member Functions

- boolean **isConnected** ()
- synchronized void **setCallBack** (**AL700Interface** callBack)
- void **removeCallback** ()
- boolean **BlueConnect** (@NonNull BluetoothDevice device, Context context)
- synchronized void **BlueClosed** ()

Static Public Member Functions

- static **BLEConnect newInstance** ()

Member Function Documentation

synchronized void com.aidialinkl.sdk.BLEConnect.BlueClosed ()

To disconnect and close the connection.

boolean com.aidialinkl.sdk.BLEConnect.BlueConnect (@NonNull BluetoothDevice *device*, Context *context*)

The connect the bluetooth device and the device must AL700 Reader.

Parameters

device	Type **BluetoothDevice**, AL700 reader.
context	Type **Context**

Returns

Type boolean, True is the device is connected, otherwise, it is not connected.

boolean com.aidialinkl.sdk.BLEConnect.isConnected ()

To check if Reader is connected

Returns

Type boolean, True is the Reader is connected, otherwise, it is not connected.

void com.aidialinkl.sdk.BLEConnect.removeCallback ()

To remove the connection state change call back.

See also

AL700Interface

synchronized void com.aidialinkl.sdk.BLEConnect.setCallBack (AL700Interface *callBack*)

To set connection state change call back.

Parameters

callBack	Type **AL700Interface**, to know the connection change

See also

AL700Interface

The documentation for this class was generated from the following file:

- D:/Android Studio Project/AL-700 for
  Android/sdk/src/main/java/com/aidialinkl/sdk/BLEConnect.java

com.aidialinkl.sdk.constant.DeviceAttributes Class Reference

Static Public Member Functions

- static boolean **lookUpService** (String uuid)

Static Public Attributes

- static final String **TELINK_SPP_UUID_SERVICE** = "00010203-0405-0607-0809-0a0b0c0d1910"
- static final String **SPP_UUID_SERVICE** = "49535343-fe7d-4ae5-8fa9-9fafd205e455"
- static final String **SLICON_BLE_UUID_SERVICE** = "eca113dc-df06-468d-bfb9-1ac506bdb814"
- static final UUID **TELINK_READ_UUID** = UUID.fromString(TELINK_SPP_DATA_SERVER2CLIENT)
- static final UUID **TELINK_WRITE_UUID** = UUID.fromString(TELINK_SPP_DATA_CLIENT2SERVER)
- static final UUID **READ_UUID** = UUID.fromString(SPP_DATA_SERVER2CLIENT)
- static final UUID **WRITE_UUID** = UUID.fromString(SPP_DATA_CLIENT2SERVER)
- static final UUID **SLICON_READ_UUID** = UUID.fromString(SLICON_BLE_DATA_CLIENT2SERVER)
- static final UUID **SLICON_WRITE_UUID** = UUID.fromString(SLICON_BLE_DATA_SERVER2CLIENT)

The documentation for this class was generated from the following file:

- D:/Android Studio Project/AL-700 for Android/sdk/src/main/java/com/aidialinkl/sdk/constant/DeviceAttributes.java

com.aidialinkl.sdk.interfaces.Execution Interface Reference

Public Member Functions

- void **data** (String data)

The documentation for this interface was generated from the following file:
- D:/Android Studio Project/AL-700 for Android/sdk/src/main/java/com/aidialinkl/sdk/interfaces/Execution.java

com.aidialinkl.sdk.interfaces.Inventory Interface Reference

Public Member Functions

- void **onData** (**TagData** data)

The documentation for this interface was generated from the following file:
- D:/Android Studio Project/AL-700 for Android/sdk/src/main/java/com/aidialinkl/sdk/interfaces/Inventory.java

com.aidialinkl.sdk.object.InventoryMode Class Reference

Classes

- enum **BankType**

Public Member Functions

- **InventoryMode** (**BankType** bankType, int otherBankStart, int otherBankLength)
- **BankType bankType** ()
- int **BankTypeValue** ()
- int **otherBankStart** ()
- int **otherBankLength** ()

The documentation for this class was generated from the following file:

- D:/Android Studio Project/AL-700 for
  Android/sdk/src/main/java/com/aidialinkl/sdk/object/InventoryMode.java

com.aidialinkl.sdk.object.KillResult Class Reference

Public Member Functions

- **KillResult** (int result, String message)
- int **getState** ()
- String **getMessage** ()

The documentation for this class was generated from the following file:

- D:/Android Studio Project/AL-700 for
  Android/sdk/src/main/java/com/aidialinkl/sdk/object/KillResult.java

com.aidialinkl.sdk.ReaderModule.LockBank Enum Reference

Public Member Functions

- **LockBank** (String s)
- String **toString** ()

Static Public Member Functions

- static **LockBank indexOf** (int i)

Public Attributes

- **EPC** =("030")
- **TID** =("00C")
- **USER** =("003")
- **Access** =("0C0")
- **Kill** =("300")

The documentation for this enum was generated from the following file:

- D:/Android Studio Project/AL-700 for Android/sdk/src/main/java/com/aidialinkl/sdk/ReaderModule.java

com.aidialinkl.sdk.object.LockResult Class Reference

Public Member Functions

- **LockResult** (int result, String message)
- int **getState** ()
- String **getMessage** ()

The documentation for this class was generated from the following file:

- D:/Android Studio Project/AL-700 for
  Android/sdk/src/main/java/com/aidialinkl/sdk/object/LockResult.java

com.aidialinkl.sdk.ReaderModule.LockType Enum Reference

Public Member Functions

- abstract String **getValue** (**LockBank** bankType)

Static Public Member Functions

- static **LockType indexOf** (int i)

Public Attributes

- **getValue**

The documentation for this enum was generated from the following file:

- D:/Android Studio Project/AL-700 for Android/sdk/src/main/java/com/aidialinkl/sdk/ReaderModule.java

com.aidialinkl.sdk.ReaderModule.PowerItem Class Reference

Public Member Functions

- **PowerItem** (String n, String v)
- String **Item** ()
- String **Value** ()

The documentation for this class was generated from the following file:

- D:/Android Studio Project/AL-700 for Android/sdk/src/main/java/com/aidialinkl/sdk/ReaderModule.java

com.aidialinkl.sdk.ReaderModule Class Reference

Classes

- class **DataRepository**
- enum **LockBank**
- enum **LockType**
- class **PowerItem**
- class **Regulation**
- enum **RegulationType**
- enum **Type**
- enum **Version**
- enum **VOLTAGE_LEVEL**

Static Public Attributes

- static final int **FI_R3008_** = 0x0000
- static final int **FI_R300A_** = 0xC000
- static final int **FI_R300TSV_** = 0xD000
- static final int **FI_A300S_** = 0x5000
- static final int **FI_RXXXX_** = 0xFFFF

The documentation for this class was generated from the following file:

- D:/Android Studio Project/AL-700 for
  Android/sdk/src/main/java/com/aidialinkl/sdk/ReaderModule.java

com.aidialinkl.sdk.ReaderService Class Reference

Classes

- class **Format**

Detailed Description

FAVEPC Reader Library Document 2017/3/15.

The documentation for this class was generated from the following file:

- D:/Android Studio Project/AL-700 for
  Android/sdk/src/main/java/com/aidialinkl/sdk/ReaderService.java

com.aidialinkl.sdk.ReaderModule.Regulation Class Reference

Static Public Attributes

- static final String **US** = "01"
- static final String **TW** = "02"
- static final String **CN** = "03"
- static final String **CN2** = "04"
- static final String **EU** = "05"
- static final String **JP** = "06"
- static final String **KR** = "07"
- static final String **VN** = "08"
- static final String **EU2** = "09"
- static final String **IN** = "0A"

The documentation for this class was generated from the following file:
- D:/Android Studio Project/AL-700 for
  Android/sdk/src/main/java/com/aidialinkl/sdk/ReaderModule.java

com.aidialinkl.sdk.ReaderModule.RegulationType Enum Reference

Public Member Functions

- **RegulationType** (final String text)
- String **toString** ()

Static Public Member Functions

- static **RegulationType indexOf** (int index)
- static **RegulationType getType** (String index)

Public Attributes

- **US** =(Regulation.US)
- **TW** =(Regulation.TW)
- **CN** =(Regulation.CN)
- **CN2** =(Regulation.CN2)
- **EU** =(Regulation.EU)
- **JP** =(Regulation.JP)
- **KR** =(Regulation.KR)
- **VN** =(Regulation.VN)

Detailed Description

Regulation enum: 01: US (902~928) 02: TW (922~928) 03: CN (920~925) 04: CN2 (840~845) 05: EU (865~868) 06: JP (916~921) 07: KR (917~921) 08: VN (918~923)

Member Function Documentation

static RegulationType com.aidialinkl.sdk.ReaderModule.RegulationType.getType (String *index*)[static]

Get **RegulationType#RegulationType(String)** by using enum toString().

Parameters

index	enum toString()

Returns

    RegulationType#RegulationType(String)

static RegulationType com.aidialinkl.sdk.ReaderModule.RegulationType.indexOf (int *index*)[static]

Get **RegulationType#RegulationType(String)** by using enum ordinal().

Parameters

index	enum ordinal()

Returns

    RegulationType#RegulationType(String)

The documentation for this enum was generated from the following file:

- D:/Android Studio Project/AL-700 for Android/sdk/src/main/java/com/aidialinkl/sdk/ReaderModule.java

com.aidialinkl.sdk.object.SelectTarget Class Reference

Public Member Functions

- **SelectTarget** (@NonNull InventoryMode.BankType bankType, int start, String mask, @Nullable String pwd)
- String **getBankValue** ()
- String **startAddr** ()
- String **getMask** ()
- String **password** ()

The documentation for this class was generated from the following file:

- D:/Android Studio Project/AL-700 for Android/sdk/src/main/java/com/aidialinkl/sdk/object/SelectTarget.java

com.aidialinkl.sdk.object.SessionType Class Reference

Public Member Functions

- **SessionType** (@IntRange(from=0, to=3) int session, @IntRange(from=0, to=1) int target)
- int **session** ()
- int **target** ()

The documentation for this class was generated from the following file:

- D:/Android Studio Project/AL-700 for
  Android/sdk/src/main/java/com/aidialinkl/sdk/object/SessionType.java

com.aidialinkl.sdk.object.TagData Class Reference

Public Member Functions

- **TagData** (String EPC, String TID, String USER)
- String **EPC** ()
- String **TID** ()
- String **USER** ()

The documentation for this class was generated from the following file:

- D:/Android Studio Project/AL-700 for
  Android/sdk/src/main/java/com/aidialinkl/sdk/object/TagData.java

com.aidialinkl.sdk.ReaderModule.Type Enum Reference

Public Attributes

- **Normal**
- **AA**

The documentation for this enum was generated from the following file:
- D:/Android Studio Project/AL-700 for
  Android/sdk/src/main/java/com/aidialinkl/sdk/ReaderModule.java

com.aidialinkl.sdk.ReaderModule.Version Enum Reference

Public Attributes

- **FI_RXXXX**
- **FI_R300A_H**
- **FI_R300T_H**
- **FI_R300V_H**
- **FI_R300S_H**
- **FI_R3008**
- **FI_R300A_C1**
- **FI_R300A_C2**
- **FI_R300T_D1**
- **FI_R300T_D2**
- **FI_A300S**
- **FI_R300A_C3**
- **FI_R300A_C2C4**
- **FI_R300T_D204**
- **FI_R300S**
- **FI_R300A_C2C5**
- **FI_R300A_C3C5**
- **FI_R300T_D205**
- **FI_R300S_D305**
- **FI_R300S_D306**
- **FI_R300V_D406**
- **FI_R300A_C2C6**
- **FI_R300T_D206**

Detailed Description

Reader **Version** enum

The documentation for this enum was generated from the following file:
- D:/Android Studio Project/AL-700 for Android/sdk/src/main/java/com/aidialinkl/sdk/ReaderModule.java

com.aidialinkl.sdk.ReaderModule.VOLTAGE_LEVEL Enum Reference

Public Attributes

- **WEAK**
- **LOW**
- **MID**
- **HIGH**
- **FULL**

The documentation for this enum was generated from the following file:
- D:/Android Studio Project/AL-700 for Android/sdk/src/main/java/com/aidialinkl/sdk/ReaderModule.java

com.aidialinkl.sdk.object.WriteResult Class Reference

Public Member Functions

- **WriteResult** (int state, @Nullable String message)
- int **getState** ()
- String **getMessage** ()

The documentation for this class was generated from the following file:

- D:/Android Studio Project/AL-700 for
  Android/sdk/src/main/java/com/aidialinkl/sdk/object/WriteResult.java