# MEDIATEK

Smart Connection Programming

Guide



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# **Document Revision History**

Revision	Date	Author	Description
0.1	2013-1-9	Arron.wang	Draft version
0.2	2013-1-28	Arron.wang	Add authentication mode description



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# 1 Introduction

This document shows how to use libSmartConnection.so.



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### 2 API of libSmartConnection

# 2.1 StartSmartConnection()

#### Prototype:

int StartSmartConnection(const char \*SSID, const char \*Password, char AuthMode),

Parameter IN	description
SSID	SSID of AP
Password	Password of AP
AuthMode	Authentication mode of AP.  Authentication mode will show in table 1.

Return value		description
0		success
Others	)	error

#### Table 1 authentication mode description

Authentication mode	Value	description
OPEN	0x00	Password is null string
WEP	0x00	Password is not null string
SHARED-KEY	0x01	
AUTOSWITCH	0x02	
WPA	0x03	
WPA-PSK	0x04	
WPANONE	0x05	



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Authentication mode	Value	description	
WPA2	0x06		
WPA2-PSK	0x07		• •
WPA1WPA2	0x08		
WPA1PSK- WPA2PSK	0x09	•	

# 2.2 StopSmartConnection()

#### Prototype:

int StopSmartConnection(void);

Return value	description
0	success
Others	error





## 3 Sample code of android

#### 3.1 Java level

#### 3.1.1 SmartConnection.java

```
IoTManager = new IoTManagerNative();
Button.OnClickListener mButtonStartListener = new Button.OnClickListene
    public void onClick(View arg0) {
         String SSID = mEditSSID.getText().toString();
         String Password = mEditPassword.getText().toString
        Log.d(TAG, "Smart connection with : ssid = " +
                                                         SSID
                                                                  Password = " + P.
                                                           (byte) mAuthMode);
        IoTManager. StartSmartConnection(SSID, Password,
3.1.2
         IoTManageNative.java
* Start SmartConnection with Home AP
* @SSID : SSID of Home AP
   @Password: Password of Home AP
 * @Auth: Auth of Home AP
 public native int StartSmartConnection(String SSID, String Password, byte Auth);
 /**
* Stop SmartConnection by 👊
                      SmartConnection () #
 public native int
3.2
          loTManage_jni.cpp
        JNINativeMethod mehods[] = {
           "StartSmartConnection", "(Ljava/lang/String; Ljava/lang/String; B) I",
             (void *) JNI StartSmartConnection },
```

"StopSmartConnection", "()I", (void \*) JNI StopSmartConnection },



```
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```

```
static jint JNI_StartSmartConnection(JNIEnv *env, jobject thiz, jstring
    int iRst = 0;
    const char *pSSID = NULL;
    const char *pPassword = NULL;
    pSSID = env->GetStringUTFChars(nSSID, 0);
    pPassword = env->GetStringUTFChars(nPassword, 0);
    iRst = StartSmartConnection(pSSID, pPassword, (char)nAuth);
    if (iRst != 0)
       HWTEST LOGD("StartSmartConnection error.");
    HWTEST_LOGD("Leave JNI_StartSmartConnection.");
   return iRst;
jint JNI_StopSmartConnection(JNIEnv *env, jobject
    int iRst = 0;
    iRst = StopSmartConnection();
    if (iRst != 0)
        HWTEST LOGD ("Stop SmartConnection
    return iRst;
```