



# OpenHarmony无线联网开发 WiFi STA联网

## 本节主要介绍:

- STA联网相关API
- 如何连接热点，并实现上网

# 三 目录

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1. STA联网相关API介绍
2. STA联网代码解读
3. 总结



# STA联网相关API

## wifi\_device.h接口简介:

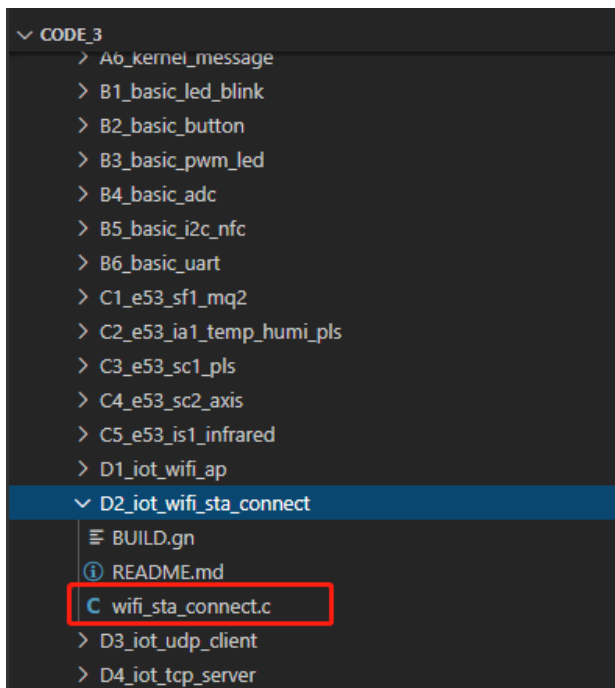
这个wifi\_device.h中包含声明AP热点相关接口函数。

接口名	功能描述
EnableWifi	启用Wifi STA 模式
DisableHotspot	禁用Wifi STA 模式
IsWifiActive	检查Wifi STA模式是否启用
Scan	扫描热点信息
GetScanInfoList	获取所有扫描到的热点列表
AddDeviceConfig	配置连接到热点信息
GetDeviceConfigs	获取配置连接到热点信息
RemoveDevice	删除指定的热点配置信息
ConnectTo	接到指定的热点
Disconnect	断开Wifi连接
GetLinkedInfo	获取热点连接信息
GetDeviceMacAddress	获取设备的MAC地址



# AP热点创建代码解读

打开 “D2\_iot\_wifi\_sta\_connect” 工程的  
wifi\_sta\_connect.c文件，可在代码中查看实  
现连接Wifi热点业务代码。



```
g_wifiEventHandler.OnWifiScanStateChanged = OnWifiScanStateChangedHandler;
g_wifiEventHandler.OnWifiConnectionChanged = OnWifiConnectionChangedHandler;
error = RegisterWifiEvent(&g_wifiEventHandler);
if (error != WIFI_SUCCESS)
{
    printf("register wifi event fail!\r\n");
}
else
{
    printf("register wifi event succeed!\r\n");
}
//使能WIFI
if (EnableWifi() != WIFI_SUCCESS)
{
    printf("EnableWifi failed, error = %d\n", error);
    return -1;
}

//判断WIFI是否激活
if (IsWifiActive() == 0)
{
    printf("Wifi station is not actived.\n");
    return -1;
}

//分配空间, 保存Wifi信息
info = malloc(sizeof(WifiScanInfo) * WIFI_SCAN_HOTSPOT_LIMIT);
if (info == NULL)
{
    return -1;
}

//轮询查找Wifi列表
do{
    //重置标志位
    ssid_count = 0;
    g_staScanSuccess = 0;

    //开始扫描
    Scan();

    //等待扫描结果
    WaitScanResult();

    //获取扫描列表
    GetScanInfoList(info, &size);
}while(g_staScanSuccess != 1);
```

## 本节小结

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- 1、AP热点创建相关API
- 2、如何创建AP热点



The background of the slide features a dark, semi-transparent overlay of silhouettes of several people in a modern office or public space. The figures are in various poses, some standing and talking, others walking, creating a sense of activity and collaboration. The lighting is soft, and the overall tone is professional and collaborative.

# 谢谢观看

## 开源从小熊派开始

OPEN-SOURCE STARTED WITH THE BEARPI