

AIC8800D Wi-Fi6/BT5.0 SoC 蓝牙语音移植手册

Revision: 1.1

2022/05/26

历史更新记录

时间	修改内容	修订人	版本
2022/05/13	初版	Aiden	1.0
2022/05/26	新增 Q&A 栏位	Aiden	1.1



编译 aic_uart_sco 驱动

选择 USB 或是 Uart 之后编译并且设定开机自动加载

bluedroid 中添加补丁

可比对 bt_stack_patch 中的 orig 和 mod

```
esco_parameters.cc: android/system/bt/device/src/esco_parameters.cc
btm_sco.cc: android/system/bt/stack/btm/btm_sco.cc
btm_main.cc: android/system/bt/stack/btm/btm_main.cc
```

注意 bluedroid 中 HFP和 HSP 的配置!!

需要注意 bdroid_buildcfg. h 中的 BTIF_HF_SERVICES

```
BTA_HFP_SERVICE_MASK: 支持 HFP
BTA_HSP_SERVICE_MASK: 支持 HSP
这个只能二选一,建议选 BTA_HFP_SERVICE_MASK, 因为有些设备不支持 HSP
```

选择适合的 profile

```
在 android/packages/apps/Bluetooth/res/values/config.xml 或在 android/device/rockchip/rk356x_box/rk356x_box/overlay/packages/apps/Bluetooth/res/values/config.xml 修改(注意先改 overlay 之下的 config.xml)
```

Source 以下参数为 true:

profile_supported_a2dp
profile_supported_hs_hfp

Sink 以下参数为 true:

profile_supported_a2dp_sink
profile_supported_hfpclient

设定 aic_btusb (如果是 uart 可跳过该步骤)

打开 CONFIG_USB_AIC_UART_SCO_DRIVER

```
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设定 libbt-vendor (如果是 uart 可跳过该步骤)

打开 CONFIG_SCO_OVER_HCI

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```

设定 aic_usb 和 aic_uart_sco 权限

在 init. xxx. rc 当中配置

chmod 0660 /dev/aic_uart_sco_dev

chown bluetooth net_bt /dev/aic_uart_sco_dev

系统编译

编译 SDK 并且将 img 刷道板子中

打开蓝牙测试进行语音测试

打开蓝牙在板子中的/dev/snd/检查是否新增声卡

Source 测试:

- 1. 安装可以用蓝牙耳机录音的 app
- 2. 点击录音
- 3. tinycap /data/test/test.wav -D 2 -d 0 -c 1 -r 8000 -b 16 -p 384 -n 2 (USB 384, Uart 480)录制声音,露好后退出 tinycap
- 4. tinyplay /data/test/test.wav -D 2 -d 0 -c 1 -r 8000 -b 16 -p 384 -n 2 (USB 384, Uart 480) 播放录制声音

Sink 测试:

- 1. 拨打电话
- 2. tinycap /data/test/test.wav -D 2 -d 0 -c 1 -r 8000 -b 16 -p 384 -n 2 (USB 384, Uart 480)录制声音,对端说话后将 tinycap 退出
- 3. tinyplay /data/test/test.wav -D 2 -d 0 -c 1 -r 8000 -b 16 -p 384 -n 2 (USB 384, Uart 480) 播放录制声音,此时对端即可听到刚刚录制的声音

Q&A