Hi Ebowwa,

Here is my plan

Spend a bit more time to find out the root cause.
      1. Is it some miss-config? or
      2. Fundamentally the SW stack (BlueZ+BlueAlsa) cannot support the HF mode on the Linux Embedded Device
      https://github.com/Arkq/bluez-alsa/wiki/Using-BlueALSA-with-HFP-and-HSP-Devices#hfp

If it's the latter, don't bother; maybe I can ask for some expert's help later.

If we can fix the problem, I will leverage this asking for their engineering sample glasses (with displays)

-Q

Problem Statement – Disconnect in HF mode

HW: RV1106 + RTK chip
SW: Linux + BlueZ + BlueAlsa

Observations:
      1. [a2dp] Device can connect to a phone and seems okay to play a youtube audio (no disconnect and show audio playing on BlueZ device)
      2. [HFP/SCO] However, when making a phone call, it automatically disconnect

Note:
it seems most linux bluez applications are used as a central device not client side (Maybe there are missing SW stacks completely i'm not sure). I have tried all different combinations of test command lines but no luck. Maybe I need to re-compile some source code? I believe the device has only off-the-shelf RV1106 bareboard, (no development at all from the glass vendor (i may need to ask to confirm).

is a virtual interface implemented on a physical serial interface (typically USB or UART, but other types can also be used). Other common hardware interfaces that are *not* used for HCI include i2s/PCM, i2c, etc. The Bluetooth Core Specification allows manufacturers to route SCO traffic through any interface, so they do not have to use the HCI for this.

Bluez (and the Linux kernel bluetooth subsystem) can only communicate with a bluetooth module through the HCI. So for BlueALSA (and other Bluez based services) to handle SCO profiles the SCO data *must* be transferred over the HCI. Therefore BlueALSA cannot support HFP or HSP with adapters that use some other interface for SCO.

Broadcom adapters allow the routing of SCO packets to be selected by a custom vendor HCI command. By default they route SCO to a PCM interface, but an application can use that custom command to change the routing to the HCI. BlueALSA sends this command when used with a Broadcom module, so HFP/HSP hopefully be available with adapters based on these modules.

Texas Instruments also have a custom vendor command for selecting HCI as the SCO interface that is known to work on some of their module families; however it is not clear from their documentation whether this command works on all their BT modules. The command can be invoked from the command line using the bluez utility `hcitool` thus:

```
hcitool cmd 0x3f 0x0210 0x01 0x00 0x00 0x00 0xFF
```

This command should be run be before any remote devices are connected, and must be re-run whenever the TI adapter is powered on. If we can gather evidence that this command works on all TI module families then it may be possible to have it invoked by BlueALSA in the same way as is done for Broadcom modules. The list of Texas Instruments module families with which this is known to work is:

- CC256x
- WL183x

> If you have a different TI module which appears to suffer this SCO routing issue then you can help by testing the above command then updating the above list.

Other brands may implement similar custom commands, but none at present has been made public so it is not possible for BlueALSA to support them unless they already default to using the HCI for SCO.

Most adapters *do* pass SCO data over the HCI, so you would need to test yours to know if is affected by this issue. One way

Use the Module as a Headset on a Call on your Host Device

Firstly, ensure the headset is properly plugged into the carrier board for using its speakers and microphone. Then, create a file named `alsaloop_call.sh` and add the following according to your Module Family. Do not forget to change the parameter `<BT-addr_device>` to the Bluetooth address of your Bluetooth device.

```
alsaloop -g /dev/stdin <<EOF
-C bluealsa:SRV=org.bluealsa,DEV=<BT-addr_device>,PROFILE=sco -P plughw:0,0 -r  8000 -c 1 --buffer=300
-C plughw:0,0 -P bluealsa:SRV=org.bluealsa,DEV=<BT-addr_device>,PROFILE=sco -r  8000 -c 1 -f s16_le --
EOF
```

Attention to the segment `plughw:0,0`, because both the numbers zero represent the card and device indexes according to the output of `aplay -l` for line 2 in the code snippet, and `arecord -l` in line 3.

Further, tests showed that sending audio to the module via Bluetooth requires setting the buffer size. However, the tests also showed that no buffer size setup is needed when the module receives audio via Bluetooth. Verify which option is better for your device by changing the flags `--sync` and `--buffer`.

Then, run:

```
# sh alsaloop_call.sh
```

https://developer.toradex.com/linux-bsp/application-development/multimedia/bluetooth-audio-linux/

Commands

initialize ble_init.sh

#!/bin/bash
set -e

echo "[INFO] Killing previous services..."

killall -q dbus-daemon bluetoothd rtkhci bluealsa bluealsa-aplay || true
rm -f /run/messagebus.pid

echo "[INFO] Mounting /var/lib/bluetooth to tmpfs..."

mkdir -p /tmp/bluetooth
mount --bind /tmp/bluetooth /var/lib/bluetooth

echo "[INFO] Starting dbus-daemon..."

dbus-daemon --system --print-pid --print-address &
ls /var/run/dbus/system_bus_socket

sleep 1
if ! ps aux | grep -v grep | grep -q dbus-daemon; then

```
echo "[INFO] Initializing RTL8723D firmware..."
cd /userdata
chmod +x ./rtkhci
./rtkhci -n -s 115200 /dev/ttyS5 rtk_h5 &

sleep 3

echo "[INFO] Bringing up Bluetooth interface..."
rfkill unblock bluetooth
hciconfig hci0 up
sleep 1
hciconfig hci0 piscan
sleep 3
hciconfig hci0 name 'Memo-i'
sleep 1

hciconfig hci0 down
sleep 1

hciconfig hci0 up
sleep 1
hciconfig hci0 piscan
sleep 3


# Below shows the initialization of HF; use experimental

/usr/libexec/bluetooth/bluetoothd --experimental --compat -n -d &

# The --experimental flag is required for HFP HF support in newer BlueZ builds.

# manually add
sdptool add HF
sdptool add A2SNK

# add hfp-hf profile
#bluealsa -p a2dp-sink -p hfp-hf --dbus=org.bluealsa &
bluealsa -p a2dp-sink -p hfp-hf --hfp-msc --dbus=org.bluealsa &


# bluealsa -p hfp-hf --dbus=org.bluealsa &
# bluealsa --dbus=org.bluealsa -p hfp-hf > /tmp/bluealsa.log 2>&1 &
# This one build and mange the client side hf profile


# connect the phone
bluetoothctl
power on
agent on
Default-agent
Scan on

discoverable on
pairable on


# call the phone
bluealsa-aplay --verbose --pcm=null --profile-sco 00:00:00:00:00:00 &

# monitor
btmon
```

LOG

```
E8:D5:2B:13:B5:AB bleutooth
bluealsa-aplay --profile=hfp "E8:D5:2B:13:B5:AB" &
bluealsa --profile=hfp-hf --profile=a2dp-sink &
bluealsa-aplay --verbose --pcm=hw:0,0 --profile-sco &
bluealsa-aplay --verbose --pcm=hw:0,0 --profile-sco E8:D5:2B:13:B5:AB
bluealsa-aplay --verbose --pcm=null --profile-sco E8:D5:2B:13:B5:AB
ln -s /usr/libexec/bluetooth/bluetoothd /usr/bin/bluetoothd
bluealsa -p a2dp-sink -p hfp-hf &
rm -f /run/messagebus.pid
dbus-daemon --system &
/usr/libexec/bluetooth/bluetoothd --compat -n -d &
hciconfig hci0 up
hciconfig hci0 piscan
/usr/libexec/bluetooth/bluetoothd --compat -n -d &
bluealsa -p a2dp-sink -p hfp-hf &
bluetoothd -n -d
./adb push rtl8723d_fw /lib/firmware/rtlbt/rtl8723d_fw
./adb push rtl8723d_config /lib/firmware/rtlbt/rtl8723d_config
./adb push rtkhci /userdata
chmod 777 rtkhci
iwconfig wlan0 up
ifconfig wlan0 up
#
killall dbus-daemon
rm /run/messagebus.pid
dbus-daemon --system --print-pid --print-address
```

```
cat /sys/class/rfkill/rfkill1/uevent
echo 1 > /sys/class/rfkill/rfkill1/state
cat /sys/class/rfkill/rfkill1/uevent
hciconfig hci0 up
/usr/libexec/bluetooth/bluetoothd --compat -n  &
sdptool add HF
hciconfig hci0 up
hciconfig hci0 piscan
hciconfig hci0 name 'Memo-i'
hciconfig hci0 down
hciconfig hci0 up
bluealsa --profile=a2dp-sink &
bluealsa-aplay --profile-a2dp 00:00:00:00:00:00 &
hciconfig hci0 class 0x240404
bluetoothctl
#       D-Bus
killall dbus-daemon
rm /run/messagebus.pid
dbus-daemon --system --print-pid --print-address
#
./rtkhci -n -s 115200 /dev/ttyS5 rtk_h5 &
#
hciconfig hci0 up
/usr/libexec/bluetooth/bluetoothd --compat -n  &
sdptool add A2SNK
hciconfig hci0 piscan
hciconfig hci0 name 'luckfox'
hciconfig hci0 down
hciconfig hci0 up
bluealsa --profile=a2dp-sink &
bluealsa-aplay --profile-a2dp 00:00:00:00:00:00 &
hciconfig hci0 class 0x240404
bluetoothctl
#
hcitool scan
#obex
export DBUS_SESSION_BUS_ADDRESS="unix:path=/var/run/dbus/system_bus_socket"
vi /etc/dbus-1/system.d/bluetooth.conf
       <allow send_destination="org.bluez.obex"/>
obexd -n -d
dbus-run-session -- bt-obex -s
[root@luckfox pico ]# cd /userdata/
[root@luckfox pico userdata]# ls
ethaddr.txt         rtkhci
lost+found          wpa_supplicant.conf
[root@luckfox pico userdata]# chmod 777 rtkhci
[root@luckfox pico userdata]# wpa_supplicant -B -i wlan0 -c /wpa_supplicant.conf
Successfully initialized wpa_supplicant
Failed to open config file '/wpa_supplicant.conf', error: No such file or directory
Failed to read or parse configuration '/wpa_supplicant.conf'.
: CTRL-EVENT-DSCP-POLICY clear_all
[root@luckfox pico userdata]# wpa_supplicant -B -i wlan0 -c ./wpa_supplicant.con
f
Successfully initialized wpa_supplicant
[root@luckfox pico userdata]# udhcpc -i wlan0
udhcpc: started, v1.36.1
udhcpc: broadcasting discover
udhcpc: broadcasting select for 192.168.160.228, server 192.168.160.115
udhcpc: lease of 192.168.160.228 obtained from 192.168.160.115, lease time 3599
deleting routers
adding dns 192.168.160.115
[root@luckfox pico userdata]# killall dbus-daemon
/messagebus.pid
dbus-daemon --system --print-pid --print-address
[root@luckfox pico userdata]# rm /run/messagebus.pid
[root@luckfox pico userdata]# dbus-daemon --system --print-pid --print-address
unix:path=/run/dbus/system_bus_socket,guid=56e27cd5df362e4a08504b9567bfdc45
1179
[root@luckfox pico userdata]# ./rtkhci -n -s 115200 /dev/ttyS5 rtk_h5 &
[root@luckfox pico userdata]# Realtek Bluetooth init uart with init speed:115200, final_speed:115200, type:HCI UART H5
Realtek Bluetooth :Realtek hciattach version 3.1
Realtek Bluetooth :3-wire sync pattern resend : 1, len: 8
Realtek Bluetooth :Get SYNC Resp Pkt
Realtek Bluetooth :Get SYNC pkt-active mode
Realtek Bluetooth :3-wire config pattern resend : 1 , len: 10
Realtek Bluetooth :Get CONFG pkt-active mode
Realtek Bluetooth :Get CONFG resp pkt-active mode
Realtek Bluetooth :H5 init finished
Realtek Bluetooth :H5 IC
Realtek Bluetooth :RTK send HCI_VENDOR_READ_RTK_ROM_VERISION_Command
Realtek Bluetooth :Received reliable seqno 0 from card
Realtek Bluetooth :receive hci command complete event with command:1001
Realtek Bluetooth :Read Local Version Information with Status:0
Realtek Bluetooth :HCI Version 0x08
Realtek Bluetooth :HCI Revision 0x000d
Realtek Bluetooth :LMP Subversion 0x8723
Realtek Bluetooth :RTK send HCI_VENDOR_READ_RTK_ROM_VERISION_Command
Realtek Bluetooth :Received reliable seqno 1 from card
Realtek Bluetooth :receive hci command complete event with command:fc6d
Realtek Bluetooth :Read RTK rom version with Status:0
Realtek Bluetooth :LMP Subversion 0x8723
```

```
Realtek Bluetooth :Couldnt access customer BT MAC file /opt/bdaddr
Realtek Bluetooth :Couldnt open extra config /opt/rtk_btconfig.txt, No such file or directory
Realtek Bluetooth :Original Cfg len 47
Realtek Bluetooth :cfg offset (00f4),length (01)
Realtek Bluetooth :cfg offset (00f6),length (02)
Realtek Bluetooth :cfg offset (00fa),length (02)
Realtek Bluetooth :config baud rate to :0x04928002, hwflowcontrol:5f, 1
Realtek Bluetooth :cfg offset (00d9),length (01)
Realtek Bluetooth :cfg offset (00e4),length (01)
Realtek Bluetooth :55 ab 23 87 29 00 f4 00 01 01 f6 00 02 81 00 fa
Realtek Bluetooth :00 02 12 80 0c 00 10 02 80 92 04 50 c5 ea 19 e1
Realtek Bluetooth :1b fd af 5f 01 a4 0b d9 00 01 0f e4 00 01 08
Realtek Bluetooth :Cfg length 47
Realtek Bluetooth :Get config baud rate from config file:4928002
Realtek Bluetooth :Load FW OK
Realtek Bluetooth :rtk_get_fw_project_id: opcode 0, len 1, data 9
Realtek Bluetooth :fw_ver 0xaa7a8cb2, patch_num 3
Realtek Bluetooth :chip id 0x0001
Realtek Bluetooth :chip id 0x0002
Realtek Bluetooth :chip id 0x0003
Realtek Bluetooth :patch length is 0x8144
Realtek Bluetooth :start offset is 0x4980
Realtek Bluetooth :Svn version:   20130
Realtek Bluetooth :Coexistence: BTCOEX_20180125-2323
Realtek Bluetooth :fw: exists, config file: exists
Realtek Bluetooth :Total len 33139 for fw/config
Realtek Bluetooth :baudrate in change speed command: 0x2 0x80 0x92 0x4
Realtek Bluetooth :Received reliable seqno 2 from card
Realtek Bluetooth :receive hci command complete event with command:fc17
Realtek Bluetooth :Change BD Rate with status:0
Realtek Bluetooth :final_speed 1500000
Realtek Bluetooth :hw flow control enable
Realtek Bluetooth :iEndIndex:131  iLastPacketLen:127 iAdditionpkt:1
Realtek Bluetooth :hci_download_patch tx_index:0 rx_index: -1
Realtek Bluetooth :Received reliable seqno 3 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 0
Realtek Bluetooth :hci_download_patch tx_index:1 rx_index: 0
Realtek Bluetooth :Received reliable seqno 4 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 1
Realtek Bluetooth :hci_download_patch tx_index:2 rx_index: 1
Realtek Bluetooth :Received reliable seqno 5 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 2
Realtek Bluetooth :hci_download_patch tx_index:3 rx_index: 2
Realtek Bluetooth :Received reliable seqno 6 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 3
Realtek Bluetooth :hci_download_patch tx_index:4 rx_index: 3
Realtek Bluetooth :Received reliable seqno 7 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 4
Realtek Bluetooth :hci_download_patch tx_index:5 rx_index: 4
Realtek Bluetooth :Received reliable seqno 0 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 5
Realtek Bluetooth :hci_download_patch tx_index:6 rx_index: 5
Realtek Bluetooth :Received reliable seqno 1 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 6
Realtek Bluetooth :hci_download_patch tx_index:7 rx_index: 6
Realtek Bluetooth :Received reliable seqno 2 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 7
Realtek Bluetooth :hci_download_patch tx_index:8 rx_index: 7
Realtek Bluetooth :Received reliable seqno 3 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 8
Realtek Bluetooth :hci_download_patch tx_index:9 rx_index: 8
Realtek Bluetooth :Received reliable seqno 4 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 9
Realtek Bluetooth :hci_download_patch tx_index:10 rx_index: 9
Realtek Bluetooth :Received reliable seqno 5 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 10
Realtek Bluetooth :hci_download_patch tx_index:11 rx_index: 10
Realtek Bluetooth :Received reliable seqno 6 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 11
Realtek Bluetooth :hci_download_patch tx_index:12 rx_index: 11
Realtek Bluetooth :Received reliable seqno 7 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 12
Realtek Bluetooth :hci_download_patch tx_index:13 rx_index: 12
Realtek Bluetooth :Received reliable seqno 0 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 13
Realtek Bluetooth :hci_download_patch tx_index:14 rx_index: 13
Realtek Bluetooth :Received reliable seqno 1 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 14
Realtek Bluetooth :hci_download_patch tx_index:15 rx_index: 14
Realtek Bluetooth :Received reliable seqno 2 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 15
Realtek Bluetooth :hci_download_patch tx_index:16 rx_index: 15
Realtek Bluetooth :Received reliable seqno 3 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 16
Realtek Bluetooth :hci_download_patch tx_index:17 rx_index: 16
Realtek Bluetooth :Received reliable seqno 4 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 17
Realtek Bluetooth :hci_download_patch tx_index:18 rx_index: 17
Realtek Bluetooth :Received reliable seqno 5 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 18
Realtek Bluetooth :hci_download_patch tx_index:19 rx_index: 18
```

Realtek Bluetooth :Received reliable seqno 7 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 20
Realtek Bluetooth :hci_download_patch tx_index:21 rx_index: 20
Realtek Bluetooth :Received reliable seqno 0 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 21
Realtek Bluetooth :hci_download_patch tx_index:22 rx_index: 21
Realtek Bluetooth :Received reliable seqno 1 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 22
Realtek Bluetooth :hci_download_patch tx_index:23 rx_index: 22
Realtek Bluetooth :Received reliable seqno 2 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 23
Realtek Bluetooth :hci_download_patch tx_index:24 rx_index: 23
Realtek Bluetooth :Received reliable seqno 3 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 24
Realtek Bluetooth :hci_download_patch tx_index:25 rx_index: 24
Realtek Bluetooth :Received reliable seqno 4 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 25
Realtek Bluetooth :hci_download_patch tx_index:26 rx_index: 25
Realtek Bluetooth :Received reliable seqno 5 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 26
Realtek Bluetooth :hci_download_patch tx_index:27 rx_index: 26
Realtek Bluetooth :Received reliable seqno 6 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 27
Realtek Bluetooth :hci_download_patch tx_index:28 rx_index: 27
Realtek Bluetooth :Received reliable seqno 7 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 28
Realtek Bluetooth :hci_download_patch tx_index:29 rx_index: 28
Realtek Bluetooth :Received reliable seqno 0 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 29
Realtek Bluetooth :hci_download_patch tx_index:30 rx_index: 29
Realtek Bluetooth :Received reliable seqno 1 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 30
Realtek Bluetooth :hci_download_patch tx_index:31 rx_index: 30
Realtek Bluetooth :Received reliable seqno 2 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 31
Realtek Bluetooth :hci_download_patch tx_index:32 rx_index: 31
Realtek Bluetooth :Received reliable seqno 3 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 32
Realtek Bluetooth :hci_download_patch tx_index:33 rx_index: 32
Realtek Bluetooth :Received reliable seqno 4 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 33
Realtek Bluetooth :hci_download_patch tx_index:34 rx_index: 33
Realtek Bluetooth :Received reliable seqno 5 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 34
Realtek Bluetooth :hci_download_patch tx_index:35 rx_index: 34
Realtek Bluetooth :Received reliable seqno 6 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 35
Realtek Bluetooth :hci_download_patch tx_index:36 rx_index: 35
Realtek Bluetooth :Received reliable seqno 7 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 36
Realtek Bluetooth :hci_download_patch tx_index:37 rx_index: 36
Realtek Bluetooth :Received reliable seqno 0 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 37
Realtek Bluetooth :hci_download_patch tx_index:38 rx_index: 37
Realtek Bluetooth :Received reliable seqno 1 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 38
Realtek Bluetooth :hci_download_patch tx_index:39 rx_index: 38
Realtek Bluetooth :Received reliable seqno 2 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 39
Realtek Bluetooth :hci_download_patch tx_index:40 rx_index: 39
Realtek Bluetooth :Received reliable seqno 3 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 40
Realtek Bluetooth :hci_download_patch tx_index:41 rx_index: 40
Realtek Bluetooth :Received reliable seqno 4 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 41
Realtek Bluetooth :hci_download_patch tx_index:42 rx_index: 41
Realtek Bluetooth :Received reliable seqno 5 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 42
Realtek Bluetooth :hci_download_patch tx_index:43 rx_index: 42
Realtek Bluetooth :Received reliable seqno 6 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 43
Realtek Bluetooth :hci_download_patch tx_index:44 rx_index: 43
Realtek Bluetooth :Received reliable seqno 7 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 44
Realtek Bluetooth :hci_download_patch tx_index:45 rx_index: 44
Realtek Bluetooth :Received reliable seqno 0 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 45
Realtek Bluetooth :hci_download_patch tx_index:46 rx_index: 45
Realtek Bluetooth :Received reliable seqno 1 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 46
Realtek Bluetooth :hci_download_patch tx_index:47 rx_index: 46
Realtek Bluetooth :Received reliable seqno 2 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 47
Realtek Bluetooth :hci_download_patch tx_index:48 rx_index: 47
Realtek Bluetooth :Received reliable seqno 3 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 48
Realtek Bluetooth :hci_download_patch tx_index:49 rx_index: 48
Realtek Bluetooth :Received reliable seqno 4 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 49
Realtek Bluetooth :hci_download_patch tx_index:50 rx_index: 49
Realtek Bluetooth :Received reliable seqno 5 from card

Realtek Bluetooth :rtk_hw_cfg.rx_index 51
Realtek Bluetooth :hci_download_patch tx_index:52 rx_index: 51
Realtek Bluetooth :Received reliable seqno 7 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 52
Realtek Bluetooth :hci_download_patch tx_index:53 rx_index: 52
Realtek Bluetooth :Received reliable seqno 0 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 53
Realtek Bluetooth :hci_download_patch tx_index:54 rx_index: 53
Realtek Bluetooth :Received reliable seqno 1 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 54
Realtek Bluetooth :hci_download_patch tx_index:55 rx_index: 54
Realtek Bluetooth :Received reliable seqno 2 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 55
Realtek Bluetooth :hci_download_patch tx_index:56 rx_index: 55
Realtek Bluetooth :Received reliable seqno 3 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 56
Realtek Bluetooth :hci_download_patch tx_index:57 rx_index: 56
Realtek Bluetooth :Received reliable seqno 4 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 57
Realtek Bluetooth :hci_download_patch tx_index:58 rx_index: 57
Realtek Bluetooth :Received reliable seqno 5 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 58
Realtek Bluetooth :hci_download_patch tx_index:59 rx_index: 58
Realtek Bluetooth :Received reliable seqno 6 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 59
Realtek Bluetooth :hci_download_patch tx_index:60 rx_index: 59
Realtek Bluetooth :Received reliable seqno 7 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 60
Realtek Bluetooth :hci_download_patch tx_index:61 rx_index: 60
Realtek Bluetooth :Received reliable seqno 0 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 61
Realtek Bluetooth :hci_download_patch tx_index:62 rx_index: 61
Realtek Bluetooth :Received reliable seqno 1 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 62
Realtek Bluetooth :hci_download_patch tx_index:63 rx_index: 62
Realtek Bluetooth :Received reliable seqno 2 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 63
Realtek Bluetooth :hci_download_patch tx_index:64 rx_index: 63
Realtek Bluetooth :Received reliable seqno 3 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 64
Realtek Bluetooth :hci_download_patch tx_index:65 rx_index: 64
Realtek Bluetooth :Received reliable seqno 4 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 65
Realtek Bluetooth :hci_download_patch tx_index:66 rx_index: 65
Realtek Bluetooth :Received reliable seqno 5 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 66
Realtek Bluetooth :hci_download_patch tx_index:67 rx_index: 66
Realtek Bluetooth :Received reliable seqno 6 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 67
Realtek Bluetooth :hci_download_patch tx_index:68 rx_index: 67
Realtek Bluetooth :Received reliable seqno 7 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 68
Realtek Bluetooth :hci_download_patch tx_index:69 rx_index: 68
Realtek Bluetooth :Received reliable seqno 0 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 69
Realtek Bluetooth :hci_download_patch tx_index:70 rx_index: 69
Realtek Bluetooth :Received reliable seqno 1 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 70
Realtek Bluetooth :hci_download_patch tx_index:71 rx_index: 70
Realtek Bluetooth :Received reliable seqno 2 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 71
Realtek Bluetooth :hci_download_patch tx_index:72 rx_index: 71
Realtek Bluetooth :Received reliable seqno 3 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 72
Realtek Bluetooth :hci_download_patch tx_index:73 rx_index: 72
Realtek Bluetooth :Received reliable seqno 4 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 73
Realtek Bluetooth :hci_download_patch tx_index:74 rx_index: 73
Realtek Bluetooth :Received reliable seqno 5 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 74
Realtek Bluetooth :hci_download_patch tx_index:75 rx_index: 74
Realtek Bluetooth :Received reliable seqno 6 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 75
Realtek Bluetooth :hci_download_patch tx_index:76 rx_index: 75
Realtek Bluetooth :Received reliable seqno 7 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 76
Realtek Bluetooth :hci_download_patch tx_index:77 rx_index: 76
Realtek Bluetooth :Received reliable seqno 0 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 77
Realtek Bluetooth :hci_download_patch tx_index:78 rx_index: 77
Realtek Bluetooth :Received reliable seqno 1 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 78
Realtek Bluetooth :hci_download_patch tx_index:79 rx_index: 78
Realtek Bluetooth :Received reliable seqno 2 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 79
Realtek Bluetooth :hci_download_patch tx_index:80 rx_index: 79
Realtek Bluetooth :Received reliable seqno 3 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 80
Realtek Bluetooth :hci_download_patch tx_index:81 rx_index: 80
Realtek Bluetooth :Received reliable seqno 4 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 81

Realtek Bluetooth :hci_download_patch tx_index:83 rx_index: 82
Realtek Bluetooth :Received reliable seqno 6 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 83
Realtek Bluetooth :hci_download_patch tx_index:84 rx_index: 83
Realtek Bluetooth :Received reliable seqno 7 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 84
Realtek Bluetooth :hci_download_patch tx_index:85 rx_index: 84
Realtek Bluetooth :Received reliable seqno 0 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 85
Realtek Bluetooth :hci_download_patch tx_index:86 rx_index: 85
Realtek Bluetooth :Received reliable seqno 1 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 86
Realtek Bluetooth :hci_download_patch tx_index:87 rx_index: 86
Realtek Bluetooth :Received reliable seqno 2 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 87
Realtek Bluetooth :hci_download_patch tx_index:88 rx_index: 87
Realtek Bluetooth :Received reliable seqno 3 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 88
Realtek Bluetooth :hci_download_patch tx_index:89 rx_index: 88
Realtek Bluetooth :Received reliable seqno 4 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 89
Realtek Bluetooth :hci_download_patch tx_index:90 rx_index: 89
Realtek Bluetooth :Received reliable seqno 5 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 90
Realtek Bluetooth :hci_download_patch tx_index:91 rx_index: 90
Realtek Bluetooth :Received reliable seqno 6 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 91
Realtek Bluetooth :hci_download_patch tx_index:92 rx_index: 91
Realtek Bluetooth :Received reliable seqno 7 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 92
Realtek Bluetooth :hci_download_patch tx_index:93 rx_index: 92
Realtek Bluetooth :Received reliable seqno 0 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 93
Realtek Bluetooth :hci_download_patch tx_index:94 rx_index: 93
Realtek Bluetooth :Received reliable seqno 1 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 94
Realtek Bluetooth :hci_download_patch tx_index:95 rx_index: 94
Realtek Bluetooth :Received reliable seqno 2 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 95
Realtek Bluetooth :hci_download_patch tx_index:96 rx_index: 95
Realtek Bluetooth :Received reliable seqno 3 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 96
Realtek Bluetooth :hci_download_patch tx_index:97 rx_index: 96
Realtek Bluetooth :Received reliable seqno 4 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 97
Realtek Bluetooth :hci_download_patch tx_index:98 rx_index: 97
Realtek Bluetooth :Received reliable seqno 5 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 98
Realtek Bluetooth :hci_download_patch tx_index:99 rx_index: 98
Realtek Bluetooth :Received reliable seqno 6 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 99
Realtek Bluetooth :hci_download_patch tx_index:100 rx_index: 99
Realtek Bluetooth :Received reliable seqno 7 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 100
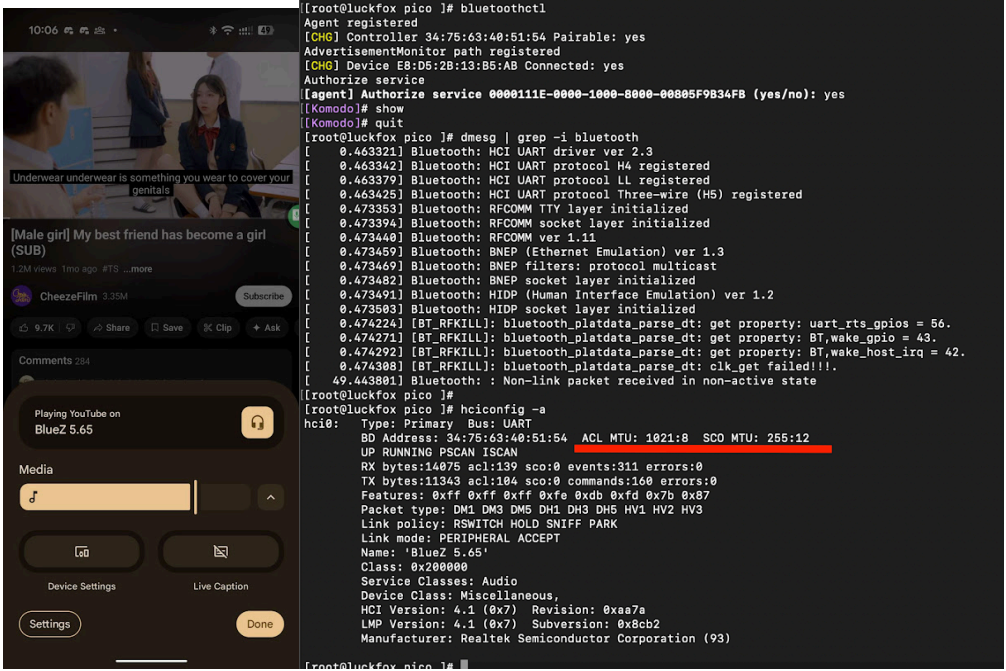Realtek Bluetooth :hci_download_patch tx_index:101 rx_index: 100
Realtek Bluetooth :Received reliable seqno 0 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 101
Realtek Bluetooth :hci_download_patch tx_index:102 rx_index: 101
Realtek Bluetooth :Received reliable seqno 1 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 102
Realtek Bluetooth :hci_download_patch tx_index:103 rx_index: 102
Realtek Bluetooth :Received reliable seqno 2 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 103
Realtek Bluetooth :hci_download_patch tx_index:104 rx_index: 103
Realtek Bluetooth :Received reliable seqno 3 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 104
Realtek Bluetooth :hci_download_patch tx_index:105 rx_index: 104
Realtek Bluetooth :Received reliable seqno 4 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 105
Realtek Bluetooth :hci_download_patch tx_index:106 rx_index: 105
Realtek Bluetooth :Received reliable seqno 5 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 106
Realtek Bluetooth :hci_download_patch tx_index:107 rx_index: 106
Realtek Bluetooth :Received reliable seqno 6 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 107
Realtek Bluetooth :hci_download_patch tx_index:108 rx_index: 107
Realtek Bluetooth :Received reliable seqno 7 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 108
Realtek Bluetooth :hci_download_patch tx_index:109 rx_index: 108
Realtek Bluetooth :Received reliable seqno 0 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 109
Realtek Bluetooth :hci_download_patch tx_index:110 rx_index: 109
Realtek Bluetooth :Received reliable seqno 1 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 110
Realtek Bluetooth :hci_download_patch tx_index:111 rx_index: 110
Realtek Bluetooth :Received reliable seqno 2 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 111
Realtek Bluetooth :hci_download_patch tx_index:112 rx_index: 111
Realtek Bluetooth :Received reliable seqno 3 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 112
Realtek Bluetooth :hci_download_patch tx_index:113 rx_index: 112

```
Realtek Bluetooth :Received reliable seqno 5 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 114
Realtek Bluetooth :hci_download_patch tx_index:115 rx_index: 114
Realtek Bluetooth :Received reliable seqno 6 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 115
Realtek Bluetooth :hci_download_patch tx_index:116 rx_index: 115
Realtek Bluetooth :Received reliable seqno 7 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 116
Realtek Bluetooth :hci_download_patch tx_index:117 rx_index: 116
Realtek Bluetooth :Received reliable seqno 0 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 117
Realtek Bluetooth :hci_download_patch tx_index:118 rx_index: 117
Realtek Bluetooth :Received reliable seqno 1 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 118
Realtek Bluetooth :hci_download_patch tx_index:119 rx_index: 118
Realtek Bluetooth :Received reliable seqno 2 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 119
Realtek Bluetooth :hci_download_patch tx_index:120 rx_index: 119
Realtek Bluetooth :Received reliable seqno 3 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 120
Realtek Bluetooth :hci_download_patch tx_index:121 rx_index: 120
Realtek Bluetooth :Received reliable seqno 4 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 121
Realtek Bluetooth :hci_download_patch tx_index:122 rx_index: 121
Realtek Bluetooth :Received reliable seqno 5 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 122
Realtek Bluetooth :hci_download_patch tx_index:123 rx_index: 122
Realtek Bluetooth :Received reliable seqno 6 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 123
Realtek Bluetooth :hci_download_patch tx_index:124 rx_index: 123
Realtek Bluetooth :Received reliable seqno 7 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 124
Realtek Bluetooth :hci_download_patch tx_index:125 rx_index: 124
Realtek Bluetooth :Received reliable seqno 0 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 125
Realtek Bluetooth :hci_download_patch tx_index:126 rx_index: 125
Realtek Bluetooth :Received reliable seqno 1 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 126
Realtek Bluetooth :hci_download_patch tx_index:127 rx_index: 126
Realtek Bluetooth :Received reliable seqno 2 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 127
Realtek Bluetooth :hci_download_patch tx_index:1 rx_index: 127
Realtek Bluetooth :Received reliable seqno 3 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 1
Realtek Bluetooth :hci_download_patch tx_index:2 rx_index: 1
Realtek Bluetooth :Received reliable seqno 4 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 2
Realtek Bluetooth :hci_download_patch tx_index:3 rx_index: 2
Realtek Bluetooth :Received reliable seqno 5 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 3
Realtek Bluetooth :hci_download_patch tx_index:4 rx_index: 3
Realtek Bluetooth :Received reliable seqno 6 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 4
Realtek Bluetooth :Send end packet 133
Realtek Bluetooth :Send FW last command
Realtek Bluetooth :hci_download_patch tx_index:5 rx_index: 4
Realtek Bluetooth :Received reliable seqno 7 from card
Realtek Bluetooth :Received event 0xff
Realtek Bluetooth :Received reliable seqno 0 from card
Realtek Bluetooth :rtk_hw_cfg.rx_index 133
Realtek Bluetooth :Init Process finished
Realtek Bluetooth post process
Device setup complete
[root@luckfox pico userdata]# rfkill unblock bluetooth
cat /sys/class/rfkill/rfkill1/uevent
echo 1 > /sys/class/rfkill/rfkill1/state
cat /sys/class/rfkill/rfkill1/uevent
[root@luckfox pico userdata]# cat /sys/class/rfkill/rfkill1/uevent
RFKILL_NAME=phy0
RFKILL_TYPE=wlan
RFKILL_STATE=1
[root@luckfox pico userdata]# echo 1 > /sys/class/rfkill/rfkill1/state
[root@luckfox pico userdata]# cat /sys/class/rfkill/rfkill1/uevent
RFKILL_NAME=phy0
RFKILL_TYPE=wlan
RFKILL_STATE=1
[root@luckfox pico userdata]#
[root@luckfox pico userdata]#
[root@luckfox pico userdata]#
[root@luckfox pico userdata]#
[root@luckfox pico userdata]#
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[root@luckfox pico userdata]#
[root@luckfox pico userdata]#
[root@luckfox pico userdata]#
[root@luckfox pico userdata]#
```

```
[root@luckfox pico userdata]# /usr/libexec/bluetooth/bluetoothd --compat -n &
[root@luckfox pico userdata]# sdptool add HF
[root@luckfox pico userdata]# bluetoothd[1216]: Bluetooth daemon 5.65
bluetoothd[1216]: Starting SDP server
bluetoothd[1216]: Bluetooth management interface 1.18 initialized
bluetoothd[1216]: Failed to set privacy: Rejected (0x0b)
[root@luckfox pico userdata]# hciconfig hci0 up
iconfig hci0 piscan
hciconfig hci0 name 'Memo-i'
hciconfig hci0 down
hciconfig hci0 up
bluealsa --profile=a2dp-sink &
bluealsa-aplay --profile-a2dp 00:00:00:00:00:00 &
hciconfig hci0 class 0x240404
[root@luckfox pico userdata]# hciconfig hci0 piscan
[root@luckfox pico userdata]# hciconfig hci0 name 'Memo-i'
[root@luckfox pico userdata]# hciconfig hci0 down
[root@luckfox pico userdata]# hciconfig hci0 up
[root@luckfox pico userdata]# bluealsa --profile=a2dp-sink &
[root@luckfox pico userdata]# bluealsa-aplay --profile-a2dp 00:00:00:00:00:00 &
[root@luckfox pico userdata]# hciconfig hci0 class 0x240404
[root@luckfox pico userdata]# bluealsa-aplay: W: Couldn't get BlueALSA PCM list: The name org.bluealsa was not provided by
any .service files
bluetoothd[1216]: Endpoint registered: sender=:1.2 path=/org/bluez/hci0/A2DP/SBC/sink/1
bluetoothd[1216]: Endpoint registered: sender=:1.2 path=/org/bluez/hci0/A2DP/SBC/sink/2
[root@luckfox pico userdata]#
[root@luckfox pico userdata]#
[root@luckfox pico userdata]#
[root@luckfox pico userdata]#
[root@luckfox pico userdata]#
[root@luckfox pico userdata]#
[root@luckfox pico userdata]# bluestrl
/bin/sh: bluestrl: not found
[root@luckfox pico userdata]# bluectrl
/bin/sh: bluectrl: not found
[root@luckfox pico userdata]# bluetoothctl
Agent registered
[CHG] Controller 34:75:63:40:51:6B Pairable: yes
[bluetooth]# \
[bluetooth]# \
[DEL] Device 50:3D:C6:9A:C9:F5 Pluto        edmi K40 Pro
[NEW] Device 50:3D:C6:9A:C9:F5 Pluto        edmi K40 Pro
Request confirmation
[agent] Confirm passkey 756553 (yes/no): yes
[CHG] Device 50:3D:C6:9A:C9:F5 Bonded: yes
[CHG] Device 50:3D:C6:9A:C9:F5 Modalias: bluetooth:v038Fp1200d1436
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 00001105-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 0000110a-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 0000110c-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 00001112-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 00001115-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 00001116-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 0000111f-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 0000112f-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 00001132-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 00001200-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 00001800-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 00001801-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 00009955-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 0000fdaa-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 98b97136-36a2-11ea-8467-484d7e99a198
[CHG] Device 50:3D:C6:9A:C9:F5 ServicesResolved: yes
[CHG] Device 50:3D:C6:9A:C9:F5 Paired: yes
Authorize service
[agent] Authorize service 0000110d-0000-1000-8000-00805f9b34fb (yes/no): yes
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 00001105-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 0000110a-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 0000110c-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 0000110d-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 00001112-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 00001115-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 00001116-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 0000111f-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 0000112f-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 00001132-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 00001200-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 00001800-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 00001801-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 00009955-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 0000fdaa-0000-1000-8000-00805f9b34fb
[CHG] Device 50:3D:C6:9A:C9:F5 UUIDs: 98b97136-36a2-11ea-8467-484d7e99a198
[NEW] Transport /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/fd0
[Pluto       edmi K40 Pro]# bluetoothd[1216]: Endpoint registered: sender=:1.2 path=/org/bluez/hci0/A2DP/SBC/sink/3
bluetoothd[1216]: profiles/audio/avdtp.c:stream_rej_to_err() Too small packet for stream_rej
bluetoothd[1216]: profiles/audio/avdtp.c:session_cb() Unable to parse reject response
[DEL] Transport /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/fd0
Authorize service
[agent] Authorize service 0000110d-0000-1000-8000-00805f9b34fb (yes/no): yes
[NEW] Transport /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/fd1
[Pluto       edmi K40 Pro]# bluetoothd[1216]: profiles/audio/avdtp.c:stream_rej_to_err() Too small packet for stream_rej
bluetoothd[1216]: profiles/audio/avdtp.c:session_cb() Unable to parse reject response
```

```
[NEW] Transport /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/fd2
[NEW] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 [default]
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Type: Audio
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Subtype: None
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Status: paused
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Name:
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Title:            ?62       €   ∃
     ?
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 TrackNumber: 0x00000000 (0)
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 NumberOfTracks: 0x00000000 (0)
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Duration: 0x0010c73c (1099580)
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Artist:        ?
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Position: 0x000026fb (9979)
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Position: 0x000026fb (9979)
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Status: playing
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Position: 0x00000000 (0)
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Title: unknow
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 TrackNumber: 0x00000000 (0)
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 NumberOfTracks: 0x00000000 (0)
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Duration: 0x00000000 (0)
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Album: unknow
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Artist: unknow
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Genre:
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Position: 0x00000000 (0)
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Title: Vicetone-nevada      ootleg        erry remix   ?
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 TrackNumber: 0x00000000 (0)
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 NumberOfTracks: 0x00000000 (0)
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Duration: 0x00030228 (197160)
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Album:    €   €
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Artist:    erry
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Position: 0x00007c51 (31825)
[Pluto      edmi K40 Pro]# bluetoothd[1216]: /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/fd2: fd(23) ready
[CHG] Transport /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/fd2 State: pending
[CHG] Transport /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/fd2 State: active
[Pluto      edmi K40 Pro]# bluealsa-aplay: W: Couldn't open mixer: Mixer element not found
[CHG] Transport /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/fd2 State: idle
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Status: paused
[CHG] Player /org/bluez/hci0/dev_50_3D_C6_9A_C9_F5/player0 Position: 0x00009ee8 (40680)
[Pluto      edmi K40 Pro]#
```

Screenshot

HF registered

```
bluetoothd[1094]: src/battery.c:register_battery_provider() register battery provider path = /org/bluez/hci0/battery
bluetoothd[1094]: src/profile.c:register_profile() sender :1.3
bluetoothd[1094]: src/profile.c:create_ext() Created "Hands-Free unit"
bluetoothd[1094]: src/profile.c:ext_adapter_probe() "Hands-Free unit" probed
bluetoothd[1094]: src/profile.c:ext_start_servers() Hands-Free unit listening on chan 7
bluetoothd[1094]: src/adapter.c:adapter_service_add() /org/bluez/hci0
bluetoothd[1094]: src/sdpd-service.c:add_record_to_server() Adding record with handle 0x10006
bluetoothd[1094]: src/sdpd-service.c:add_record_to_server() Record pattern UUID 00000003-0000-1000-8000-00805f9
bluetoothd[1094]: src/sdpd-service.c:add_record_to_server() Record pattern UUID 00000100-0000-1000-8000-00805f9
bluetoothd[1094]: src/sdpd-service.c:add_record_to_server() Record pattern UUID 00001002-0000-1000-8000-00805f9
bluetoothd[1094]: src/sdpd-service.c:add_record_to_server() Record pattern UUID 0000111e-0000-1000-8000-00805f9
bluetoothd[1094]: src/sdpd-service.c:add_record_to_server() Record pattern UUID 00001203-0000-1000-8000-00805f9
bluetoothd[1094]: src/adapter.c:adapter_service_insert() /org/bluez/hci0
bluetoothd[1094]: src/adapter.c:add_uuid() sending add uuid command for index 0
bluetoothd[1094]: src/shared/mgmt.c:send_request() [0x0000] command 0x0010
bluetoothd[1094]: src/shared/mgmt.c:can_read_data() [0x0000] event 0x0007
bluetoothd[1094]: src/adapter.c:dev_class_changed_callback() Class: 0x200000
bluetoothd[1094]: src/shared/mgmt.c:can_read_data() [0x0000] command 0x0010 complete: 0x00




bluetoothd[1094]: src/agent.c:add_default_agent() Default agent set to :1.4 /org/bluez/agent
bluetoothd[1094]: src/adapter.c:set_mode() sending set mode command for index 0
bluetoothd[1094]: src/agent.c:agent_ref() 0x580aa0: ref=1
bluetoothd[1094]: src/agent.c:register_agent() agent :1.4
bluetoothd[1094]: src/shared/mgmt.c:send_request() [0x0000] command 0x0009
bluetoothd[1094]: src/shared/mgmt.c:can_read_data() [0x0000] command 0x0009 complete: 0x00
bluetoothd[1094]: src/adapter.c:new_settings_callback() Settings: 0x00000ad1
bluetoothd[1094]: src/adapter.c:settings_changed() Changed settings: 0x00000010
bluetoothd[1094]: src/adapter.c:settings_changed() Pending settings: 0x00000000
bluetoothd[1094]: src/shared/mgmt.c:send_request() [0x0000] command 0x0018
bluetoothd[1094]: src/shared/mgmt.c:can_read_data() [0x0000] command 0x0018 complete: 0x00
bluetoothd[1094]: Path / reserved for Adv Monitor app :1.4
```