Bluetooth

blutooth should work in 4.14 and 4.19 except BTLE

http://forum.banana-pi.org/t/bpi-r2-new-image-ubuntu-16-04-v1-2-1-bt-and-wifi-ap-mode-are-working-fine-2017-11-27/4291

http://forum.banana-pi.org/t/bpi-r2-kernel-bluetouh-module/4592/46

```
root@bpi-r2-ubuntu:~# apt-get install bluez
# #enable combo-chip via wmt-tools
root@bpi-r2-ubuntu:~# wmt_loader
root@bpi-r2-ubuntu:~# stp_uart_launcher -p /etc/firmware &
root@bpi-r2-ubuntu:~# hciconfig -a
hci0:   Type: Primary  Bus: SDIO
        BD Address: 00:00:00:00:00:00  ACL MTU: 0:0  SCO MTU: 0:0
        DOWN
        RX bytes:0 acl:0 sco:0 events:0 errors:0
        TX bytes:0 acl:0 sco:0 commands:0 errors:0
        Features: 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
        Packet type: DM1 DH1 HV1
        Link policy:
        Link mode: SLAVE ACCEPT #<<<<<< wrong mode for connect to client-
devices
root@bpi-r2-ubuntu:~# hciconfig -a hci0 lm master
root@bpi-r2-ubuntu:~# hciconfig -a
hci0:   Type: Primary  Bus: SDIO
        BD Address: 00:00:00:00:00:00  ACL MTU: 0:0  SCO MTU: 0:0
        DOWN
        RX bytes:0 acl:0 sco:0 events:0 errors:0
        TX bytes:0 acl:0 sco:0 commands:0 errors:0
        Features: 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
        Packet type: DM1 DH1 HV1
        Link policy:
        Link mode: MASTER #<<<<<<<<<<<<<< now we are in master-mode
root@bpi-r2-ubuntu:~# hciconfig hci0 up
root@bpi-r2-ubuntu:~# hciconfig -a
hci0:   Type: Primary  Bus: SDIO
        BD Address: 00:00:46:85:90:01  ACL MTU: 1021:4  SCO MTU: 184:1
        UP RUNNING
        RX bytes:554 acl:0 sco:0 events:27 errors:0
        TX bytes:386 acl:0 sco:0 commands:27 errors:0
        Features: 0xbf 0x3e 0x8d 0xfe 0xdb 0xff 0x5b 0x87
        Packet type: DM1 DM3 DM5 DH1 DH3 DH5 HV1 HV2 HV3
        Link policy: RSWITCH SNIFF
        Link mode: MASTER
        Name: 'MTK MT8590 #1'
        Class: 0x001f00
        Service Classes: Unspecified #<<<<<<<<<<<<<<<<<<<<<<<<
```

```
        Device Class: Invalid Device Class! #<<<<<<<<<<<<<<<<<<<<<<<<
        HCI Version: 4.0 (0x6)  Revision: 0x0
        LMP Version: 4.1 (0x7)  Subversion: 0x0
        Manufacturer: MediaTek, Inc. (70)
root@bpi-r2-ubuntu:~# hciconfig hci0 class ff0104 #try to fix class
 root@bpi-r2-ubuntu:~# hciconfig -a | grep Class
        Class: 0xff0104
        Service Classes: Positioning, Networking, Rendering, Capturing,
Object Transfer, Audio, Telephony, Information
        Device Class: Computer, Desktop workstation
root@bpi-r2-ubuntu:~# hciconfig hci0 features
hci0:   Type: Primary  Bus: SDIO
        BD Address: 00:00:46:85:90:01  ACL MTU: 1021:4  SCO MTU: 184:1
        Features page 0: 0xbf 0x3e 0x8d 0xfe 0xdb 0xff 0x5b 0x87
                <3-slot packets> <5-slot packets> <encryption> <slot offset>
                <timing accuracy> <role switch> <sniff mode> <RSSI>
                <channel quality> <SCO link> <HV2 packets> <HV3 packets>
                <CVSD> <power control> <transparent SCO> <broadcast encrypt>
                <EDR ACL 2 Mbps> <EDR ACL 3 Mbps> <enhanced iscan>
                <interlaced iscan> <interlaced pscan> <inquiry with RSSI>
                <extended SCO> <EV4 packets> <EV5 packets> <AFH cap. slave>
                <AFH class. slave> <LE support> <3-slot EDR ACL>
                <5-slot EDR ACL> <sniff subrating> <pause encryption>
                <AFH cap. master> <AFH class. master> <EDR eSCO 2 Mbps>
                <EDR eSCO 3 Mbps> <3-slot EDR eSCO> <extended inquiry>
                <LE and BR/EDR> <simple pairing> <encapsulated PDU>
                <non-flush flag> <LSTO> <inquiry TX power> <EPC>
                <extended features>
        Features page 1: 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
root@bpi-r2-ubuntu:~# hcitool -i hci0 scan
Scanning ...
        B4:9D:0B:5F:2A:B9       Aquaris X5 Plus
root@bpi-r2-ubuntu:~# hciconfig hci0 piscan #make r2 visible to other
devices
root@bpi-r2-ubuntu:~# hcitool cc B4:9D:0B:5F:2A:B9
root@bpi-r2-ubuntu:~# hcitool auth B4:9D:0B:5F:2A:B9
HCI authentication request failed: Connection timed out
root@bpi-r2-ubuntu:~# l2ping B4:9D:0B:5F:2A:B9
Ping: B4:9D:0B:5F:2A:B9 from 00:00:46:85:90:01 (data size 44) ...
44 bytes from B4:9D:0B:5F:2A:B9 id 0 time 5.33ms
44 bytes from B4:9D:0B:5F:2A:B9 id 1 time 14.76ms
44 bytes from B4:9D:0B:5F:2A:B9 id 2 time 46.78ms
44 bytes from B4:9D:0B:5F:2A:B9 id 3 time 22.62ms
^C4 sent, 4 received, 0% loss
```

nothing happens on my mobile-phone during connect and auth. if i try to connect from mobile-phone to r2, i got a pin-request but i have no pin defined...hcid.conf does not exist with bluez4

issues

Journalcontrol shows error

```
$ journalctl | grep bluetooth
bluetoothd[462]: a2dp-source profile connect failed for 18:F0:E4:FE:F5:58:
Protocol not available
```

this is maybe caused by a bluez5-bug

```
$nano /etc/systemd/system/dbus-org.bluez.service
append: ExecStart=/usr/lib/bluetooth/bluetoothd --compat (or -C)
$systemctl daemon-reload
$systemctl restart bluetooth
```

thanks to user „yenseaman“ from bananapi-forum

From:
https://wiki.fw-web.de/ - **FW-WEB Wiki**

Permanent link:
https://wiki.fw-web.de/doku.php?id=en:bpi-r2:bluetooth

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