Reporting on Bluetooth bug 1500242

System Information of the device

Detailed image information of the system used for testing

```
system-image-cli -i:

current build number: 196
device name: krillin
channel: ubuntu-touch/rc-proposed/bq-aquaris.en
last update: 2015-12-05 18:28:01
version version: 196
version ubuntu: 20151204.1
version device: 20151028-869191d
version custom: 20151111–36-46-vivid


hciconfig -a

hci0:   Type: BR/EDR  Bus: UART
        BD Address: 4C:74:03:64:75:ED  ACL MTU: 1021:4  SCO MTU: 184:1
        UP RUNNING PSCAN
        RX bytes:1054 acl:0 sco:0 events:56 errors:0
        TX bytes:3734 acl:0 sco:0 commands:56 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: SLAVE ACCEPT
        Name: 'Aquaris E4.5 Ubuntu Edition'
        Class: 0x5c0110
        Service Classes: Rendering, Capturing, Object Transfer, Telephony
        Device Class: Computer, Handheld
        HCI Version: 4.0 (0x6)  Revision: 0x0
        LMP Version: 4.0 (0x6)  Subversion: 0x0
        Manufacturer: MediaTek, Inc. (70)


bluetoothctl

[NEW] Controller 4C:74:03:64:75:ED Aquaris E4.5 Ubuntu Edition [default]
[NEW] Device 90:03:B7:46:8E:E9 SEAT_BT
[NEW] Device 00:80:00:00:15:76 Bluetooth Mouse


[bluetooth]# show

Controller 4C:74:03:64:75:ED
        Name: Aquaris E4.5 Ubuntu Edition
        Alias: Aquaris E4.5 Ubuntu Edition
        Class: 0x5c0110
        Powered: yes
        Discoverable: no
        Pairable: yes
        UUIDs:
          Headset AG                (00001112-0000-1000-8000-00805f9b34fb)
          Generic Attribute Profile (00001801-0000-1000-8000-00805f9b34fb)
          A/V Remote Control        (0000110e-0000-1000-8000-00805f9b34fb)
          SIM Access                (0000112d-0000-1000-8000-00805f9b34fb)
          Generic Access Profile    (00001800-0000-1000-8000-00805f9b34fb)
          PnP Information           (00001200-0000-1000-8000-00805f9b34fb)
```

```
        A/V Remote Control Target (0000110c-0000-1000-8000-00805f9b34fb)
        Audio Source              (0000110a-0000-1000-8000-00805f9b34fb)
        Audio Sink                (0000110b-0000-1000-8000-00805f9b34fb)
        Handsfree Audio Gateway   (0000111f-0000-1000-8000-00805f9b34fb)
        Message Notification Se.. (00001133-0000-1000-8000-00805f9b34fb)
        Phonebook Access Server   (0000112f-0000-1000-8000-00805f9b34fb)
    Modalias: usb:v1D6Bp0246d0523
    Discovering: no
```

Modifications on the device (debugging information)

```
sudo mount -o remount,rw /
```

Since no bluetooth-override file was available I used:

```
sudo sed -i 's/exec \/usr\/sbin\/bluetoothd/exec \/usr\/sbin\/bluetoothd
-d/g' /etc/init/bluetooth.conf
```

```
sudo sed -i 's/--start/--start --log-level=debug/g'
/usr/share/upstart/sessions/pulseaudio.conf
```

I was not 100% sure about the ofono modifications: "Add '-d' to the exec line in /etc/init/ofono.override". I have modified the line in ofono.override to:

```
exec ofonod -P -d provision,udev*,dun*,smart*,hfp_bluez5,stktest,sap
```

I tested this 2 times.
1. I have restarted the phone after these modifications (logfile start with 1_*).
2. I have not restarted the phone and carried out the tests directly thereafter (logfile start with 2_*).

Issue with Jabra BT250 device

I followed the connection & pairing process with [bluetooth]# devices and made two screen shots:

```
[bluetooth]# devices
Device 90:03:B7:46:8E:E9 SEAT_BT
Device 00:80:00:00:15:76 Bluetooth Mouse
```

I put the Jabra is search mode and the phone found the device:

```
[bluetooth]# devices
Device 90:03:B7:46:8E:E9 SEAT_BT
Device 00:80:00:00:15:76 Bluetooth Mouse
[CHG] Controller 4C:74:03:64:75:ED Discoverable: yes
[CHG] Controller 4C:74:03:64:75:ED Discovering: yes
[NEW] Device 00:07:A4:00:A7:05 JABRA 250
[CHG] Device 00:07:A4:00:A7:05 RSSI is nil
[CHG] Controller 4C:74:03:64:75:ED Discovering: no
[CHG] Controller 4C:74:03:64:75:ED Discovering: yes
[CHG] Device 00:07:A4:00:A7:05 RSSI: -38
[CHG] Controller 4C:74:03:64:75:ED Discoverable: no
[CHG] Device 00:07:A4:00:A7:05 RSSI is nil
[CHG] Controller 4C:74:03:64:75:ED Discovering: no
[CHG] Controller 4C:74:03:64:75:ED Discoverable: yes
```
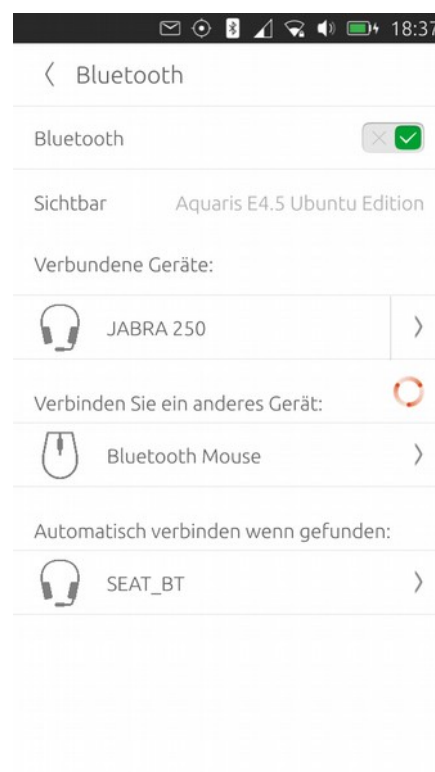
The I pressed "connect" in the screen of the Jabra of the phone:

```
[CHG] Device 00:07:A4:00:A7:05 Connected: yes
[CHG] Device 00:07:A4:00:A7:05 UUIDs: 00001108-0000-1000-8000-00805f9b34fb
[CHG] Device 00:07:A4:00:A7:05 UUIDs: 0000111e-0000-1000-8000-00805f9b34fb
[CHG] Device 00:07:A4:00:A7:05 Paired: yes
[CHG] Device 00:07:A4:00:A7:05 ConnectedProfiles: 0000111e-0000-1000-8000-
00805f9b34fb
[CHG] Controller 4C:74:03:64:75:ED Discovering: yes
[CHG] Device 00:07:A4:00:A7:05 ConnectedProfiles: 00001108-0000-1000-8000-
00805f9b34fb
[CHG] Device 00:07:A4:00:A7:05 ConnectedProfiles: 0000111e-0000-1000-8000-
00805f9b34fb
[CHG] Device 00:07:A4:00:A7:05 Trusted: yes
[CHG] Controller 4C:74:03:64:75:ED Discovering: no
[CHG] Controller 4C:74:03:64:75:ED Discovering: yes
[CHG] Controller 4C:74:03:64:75:ED Discoverable: no
```

After this the Jabra changed from search mode into operational mode. This is how the bluetooth window looked like after the pairing process (correct symbol of the head set):

I can place calls and receive calls. I can end the calls with the button on the bluetooth device.
Then I turned the Jabra device off (power off of the device) ...

```
[CHG] Device 00:07:A4:00:A7:05 Connected: no
```

… and put it back on. I expect that the device automatically reconnects to the phone. So first I did nothing just waiting.
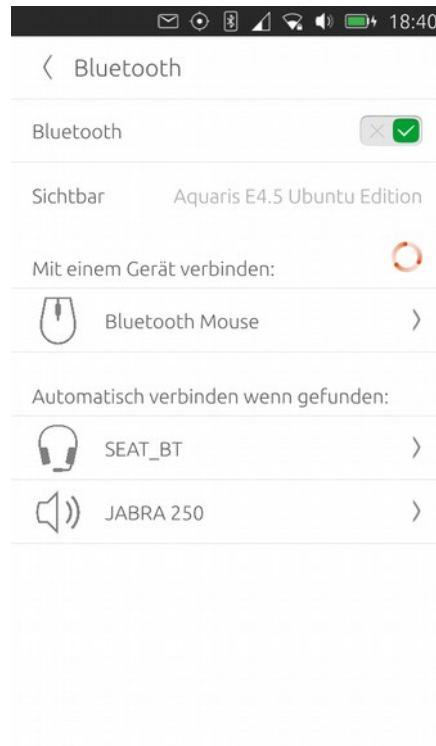
```
[CHG] Device 00:07:A4:00:A7:05 Class: 0x20040c
[CHG] Device 00:07:A4:00:A7:05 Icon: audio-card
[CHG] Device 00:07:A4:00:A7:05 Connected: yes
[CHG] Controller 4C:74:03:64:75:ED Discovering: no
[CHG] Device 00:07:A4:00:A7:05 Connected: no
[CHG] Controller 4C:74:03:64:75:ED Discoverable: yes
[CHG] Controller 4C:74:03:64:75:ED Discovering: yes
```
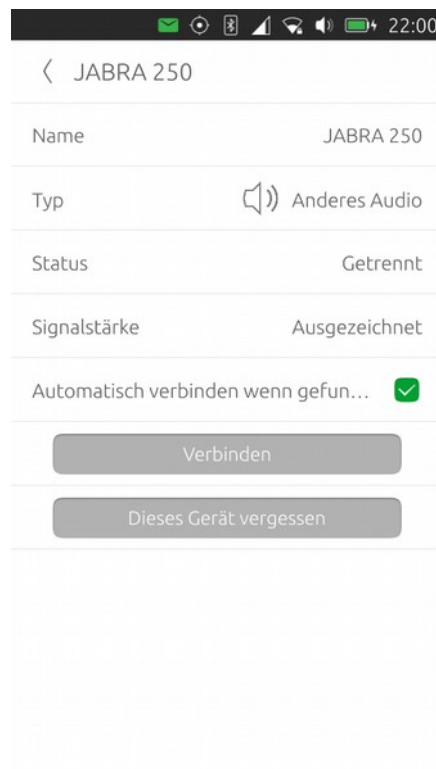
```
[CHG] Controller 4C:74:03:64:75:ED Discovering: no
[CHG] Controller 4C:74:03:64:75:ED Discovering: yes
[CHG] Controller 4C:74:03:64:75:ED Discovering: no
```

I was alos not able to manually reconnect it.
The bluetooth window looked like the following (see the changed symbol!):

The window of the Jabra device looked like:

I have attached the debugging files:

/home/phablet/.cache/upstart/application-legacy-ubuntu-system-settings-.log
/home/phablet/.cache/upstart/dbus.log

in version 1_* and 2_* as described above. Both habe been generated during these session of the above steps. I hope this helps. If you need anything further please let me know.