**EWM-W188 Bluetooth porting guide for ds100-debian**

**Porting**

1. Add following configure in project deconfig

CONFIG\_BT\_INTEL=y

CONFIG\_BT\_BCM=y

CONFIG\_BT\_RTL=y

CONFIG\_BT\_HCIBTUSB=y

CONFIG\_BT\_HCIBTUSB\_BCM=y

CONFIG\_BT\_HCIBTUSB\_RTL=y

1. Add 8822b patch on rtlbt in kernel.

<https://patchwork.kernel.org/patch/9323749/>

C. Download firmware on

<https://github.com/wkennington/linux-firmware/tree/master/rtl_bt>

Copy rtl8822b\_config.bin, rtl8822b\_fw.bin to /lib/firmware/rtl\_bt/ on DUT

**Test**

root@linaro-alip:~# hciconfig

hci0: Type: Primary Bus: USB

 BD Address: 00:00:00:00:00:00 ACL MTU: 0:0 SCO MTU: 0:0

 DOWN

 RX bytes:14 acl:0 sco:0 events:1 errors:0

 TX bytes:3 acl:0 sco:0 commands:1 errors:0

root@linaro-alip:~# hciconfig -a

hci0: Type: Primary Bus: USB

 BD Address: 00:00:00:00:00:00 ACL MTU: 0:0 SCO MTU: 0:0

 DOWN

 RX bytes:14 acl:0 sco:0 events:1 errors:0

 TX bytes:3 acl:0 sco:0 commands:1 errors:0

 Features: 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

 Packet type: DM1 DH1 HV1

 Link policy:

 Link mode: SLAVE ACCEPT

root@linaro-alip:~# hciconfig hci0 up

[ 27.926398] Bluetooth: hci0: rtl: examining hci\_ver=07 hci\_rev=000b lmp\_ver=07 lmp\_subver=8822

[ 27.935080] Bluetooth: hci0: rtl: loading rtl\_bt/rtl8822b\_config.bin

[ 27.945284] Bluetooth: hci0: rtl: loading rtl\_bt/rtl8822b\_fw.bin

[ 27.954356] Bluetooth: hci0: rom\_version status=0 version=2

[ 27.960009] Bluetooth: cfg\_sz 14, total size 20270

root@linaro-alip:~# hcitool scan

Scanning ...

 00:1A:7D:DA:71:13 PC020802

 2C:8B:7C:14:62:61 Y1

 24:FD:52:8B:A5:D3 NB020903

 F4:60:E2:A3:F2:E9 Bigboss

 38:BA:F8:D2:14:4F NB080164

 22:22:43:21:58:90 rk3368

 60:F6:77:A1:42:F7 NB070308

 80:35:C1:4E:15:30 紅米手機

 F8:94:C2:8F:F8:C1 daniel

 90:61:AE:61:46:A2 NB061001

root@linaro-alip:~#