UART to TCP Demo

1. Import and compile the following application inside Developer Studio



1. The above application has been tested on WP8548 on MangOH Green.

root@swi-mdm9x15:~# cm info

Device: WP8548

IMEI: 359377060004735

FSN: LL537500110203

Firmware: SWI9X15Y\_07.11.22.00 r33729 CARMD-EV-FRMWR1 2017/01/11 18:04:06

Bootloader: SWI9X15Y\_07.11.22.00 r33729 CARMD-EV-FRMWR1 2017/01/11 18:04:06

priIdPn: 9904889

priIdRev: 01.11

skuId: 1102621

root@swi-mdm9x15:~# legato version

16.10.1\_a6a25fbda05738774857dccb9fd76a99\_modified

1. Download the application to the module by Developer Studio. Please note that you might need to enter “iptables -I INPUT -p tcp --dport 22 -j ACCEPT” for communication on TCP port 22 between module and Developer Studio.
2. As the UART2 console will be switched to data mode in the following steps, please make sure you can SSH with USB ECM interface after reboot. Otherwise, you cannot connect to the console.
3. Map the UART2 to data mode by AT!MAPUART=17,2
4. Reboot the device.
5. Use SSH via USB ECM to connect to the console.
6. Enter APN by “cm data apn hkcsl”
7. Start data connection by “cm data connect &”
8. Make sure now you can ping your TCP server.
9. Enable the logread on the console by “logread -f &”
10. “app status” should show the following:

root@swi-mdm9x15:~# app status

[running] atClient

[running] atServer

[running] audioService

[running] avcService

[running] cellNetService

[running] dataConnectionService

[running] devMode

[running] fwupdateService

[running] gpioService

[running] modemService

[running] positioningService

[running] powerMgr

[running] secStore

[stopped] smsInboxService

[stopped] spiService

[stopped] tools

[stopped] voiceCallService

[stopped] wifi

[stopped] wifiApTest

[stopped] wifiClientTest

[running] wifiService

[stopped] wifiWebAp

[stopped] UART\_TCP\_Demo1

1. Enter “app runProc UART\_TCP\_Demo1 UART\_TCP\_Demo1 --exe=uart -- 116.66.221.43 5043”. Now we can start the application to connect to the TCP echo server at IP address 116.66.221.43 and port 5043.
2. Now open the UART port by tera term at baud rate 115200 and without flow control
3. Type some characters on the port, the application will send to the TCP echo server, and you will receive the same character at your terminal.