QDART in Besra Project

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SoC/HW - DVT / Tools/ NPI TDC

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Clean Old-Qdart related install.

- Uninstall old QDART
- Uninstall old QDART-Conn
- Delete folder C:\Program Files (x86)\QUALCOMM\QDART\bin
- Delete folder C:\QUALCOMM\WCN\ProdTests\BIN
- Reboot laptop.

QDART CONN Install Steps

- QDART_CONN.1.0.33 Installer:
  - ftp://10.235.74.60/QDART/QDART_CONN/QDART-Connectivity1000033.exe
  - Be sure to select R&D mode.
  - Just accept and click next.

Install WPSP window pcie driver - 1

- Install ftp://10.235.74.60/QDART/QDART_CONN/QDART_WPSP.WIN.1.0.exe

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Be sure this driver only support win7+64bits.

1. set win7 64bits test mode on.
                run cmd.exe
                Bcdedit /set testsigning on
                reboot your pc
2. Install win7 64 bits WPSP driver v1.0.0.2 with administrator mode
       ftp://10.235.74.60/QDART/QDART_CONN/QDART_WPSP.WIN.1.0.exe
3. Copy UTF files from HALPHY release folder, should using the naming of the following:
   utf_AR9886.bin, utf_AR9886_codeswap.bin, otp_AR9886.bin and fakeBoadData_AR9886.bin
   to C:\Windows\System32\drivers
4. Plugin your Besra.
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Install WPSP window pcie driver -2

- If your laptop face Code52 signature problem, try to update your device driver with ftp://10.235.74.60/Besra/Bringup_1_0/win7_driver_64bit/Win7Debug/
  - Choose to Locate and Install Driver Software Manually
  - Choose to Pick From a List of Device Drivers on Your Computer
  - Click the Have Disk Button

Fakeboard data file.

- copy
  - ftp://10.235.74.60/Besra/Bringup_1_0/firmware/fakeBoardData_AR9886.bin to C:\Qualcomm\WCN\ProdTests\refDesigns\boardData

Run Qcmbr - 1.

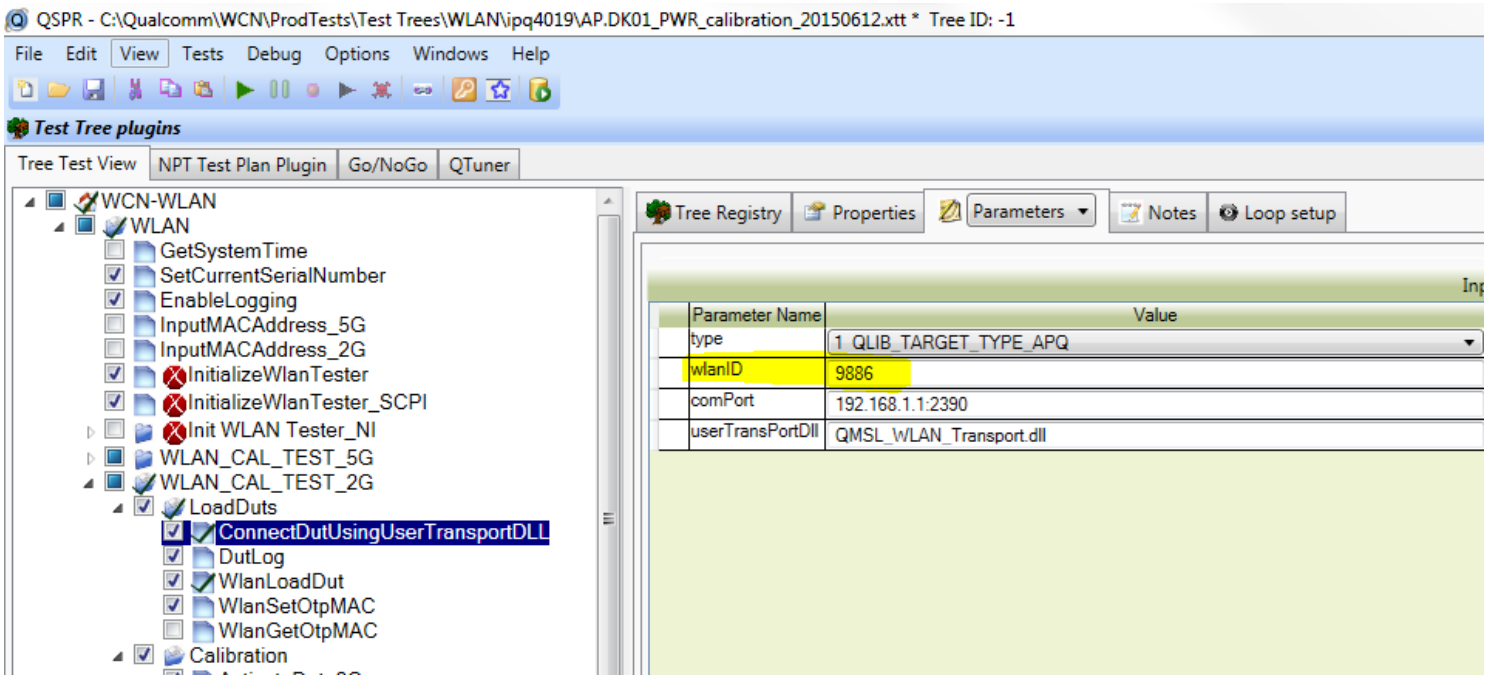
- Under AP console:
  - 2G: Dragonfly, Honeybee
    - /etc/init.d/art start
    - See MaxLiao_QDART_AR9561-AR9531_V1.0_2015_08_25.pptx for more information.
  - 5G: Besra
    - /etc/init.d/qcmbr start

Run Qcmbr – 2.

- After disconnect QSPR, you should re-init again.
  - 2G: /etc/init.d/art restart
  - 5G: /etc/init.d/qcmbr restart

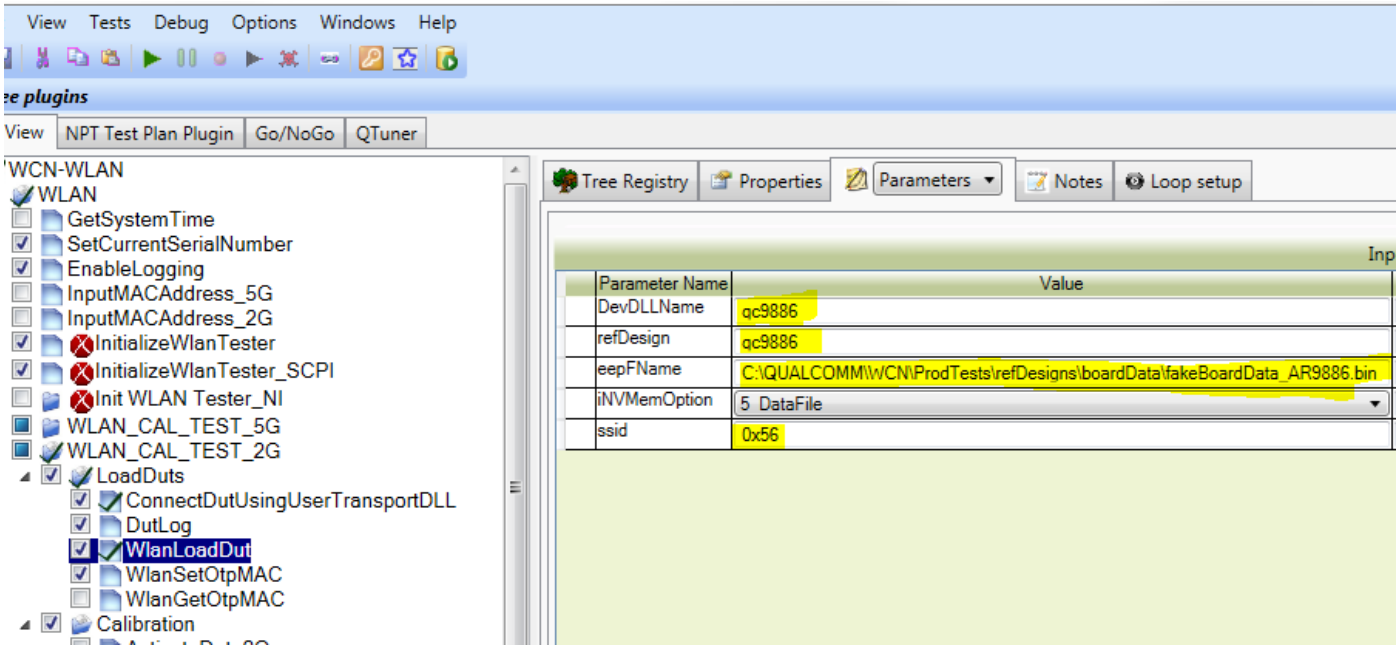
QSPR Load card setting - 1.

- Besra load card at ConnectDutUsingUserTransportDLL():
  - 9886:



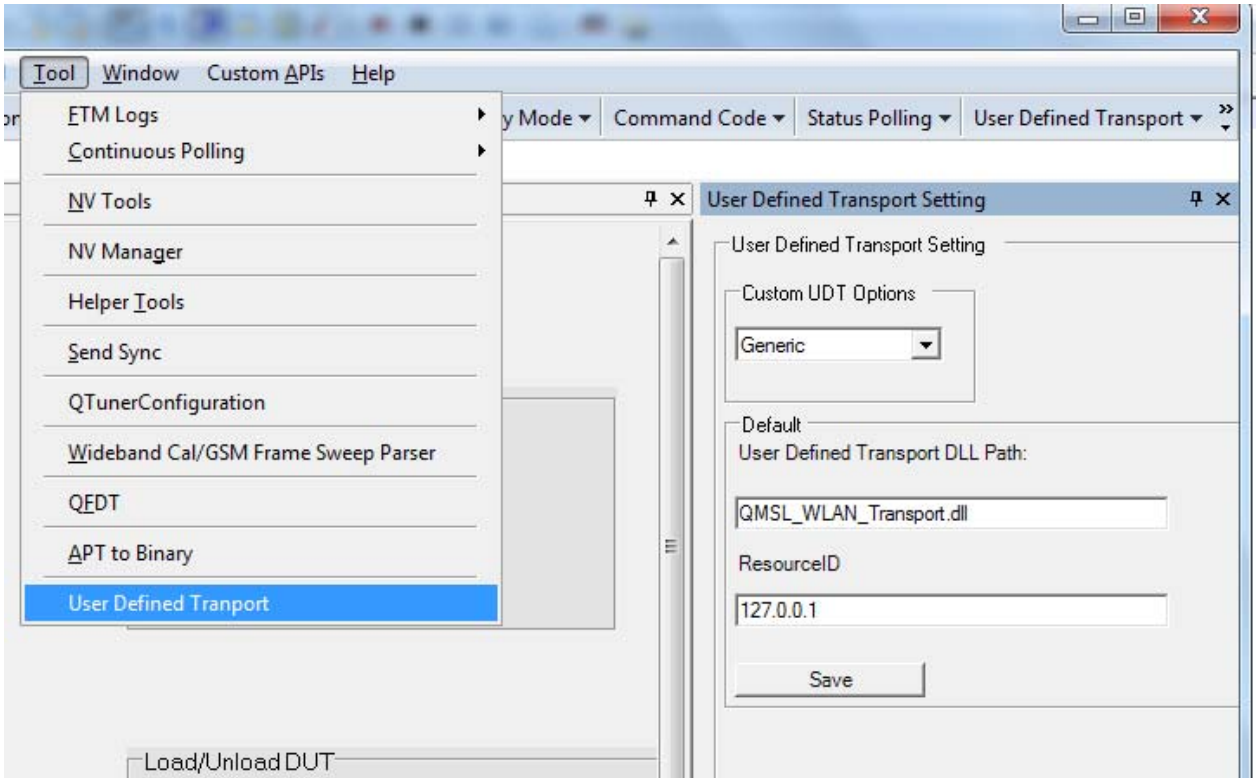
QSPR Load card setting – 2.

- Besra Load card at WlanLoadDut() :
  - qc9886
  - fakeBoardData_AR9886.bin
  - Ssid: 0x56.



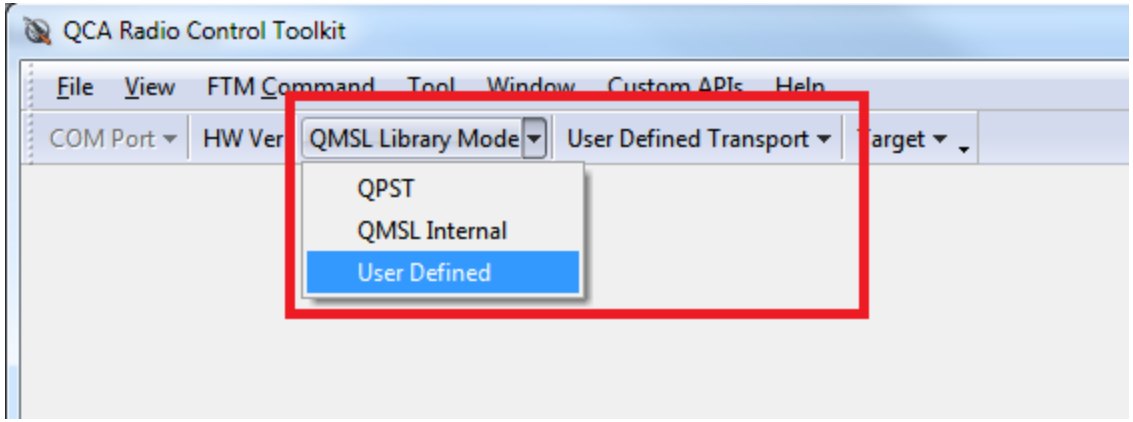
QRCT Load card setting - 1.

- Tool -> User Defined Transport: **QMSL_WLAN_Transport.dll**.
- User Defined Transport Setting: Only 2G or 5G at a time !!
  - 5G Besra: 192.168.1.1:2391



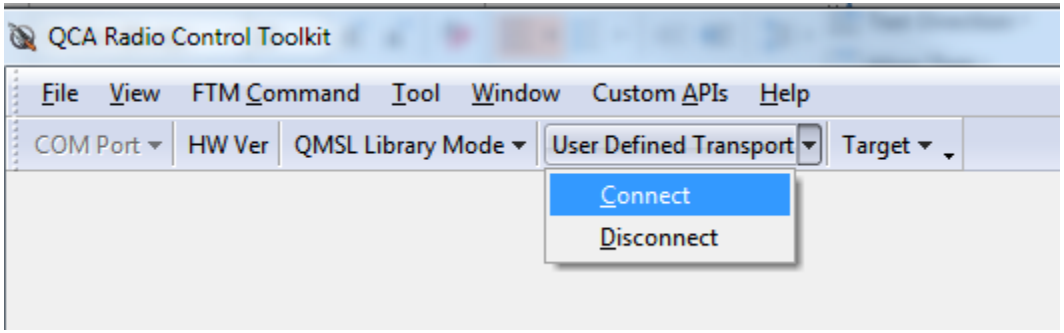
QRCT Load card setting - 2.

- If “User Defined Transport” is hided:
  - QMSL Library Mode -> select “User Defined “



QRCT Load card setting - 3.

- Select “User Defined Transport” -> select “Connect”



QRCT Load card setting - 4.

- Select Chipset -> QC9886
- Select BDF (board data file) -> C:\QUALCOMM\WCN\ProdTests\refDesigns\boardData\fakeBoardData_AR9886.bin
- Select RFCaldata-> DataFile
- Load DUT

QRCT support register read/write

- Double click this QRCT_Internal_win7.reg:
  - let QRCT support register read/write.
  - ftp://10.235.74.60/QDART/QDART_CONN/QRCT_Internal_win7.reg