

# WiFi Issues with RDK-B on Raspberry Pi3 (morty)

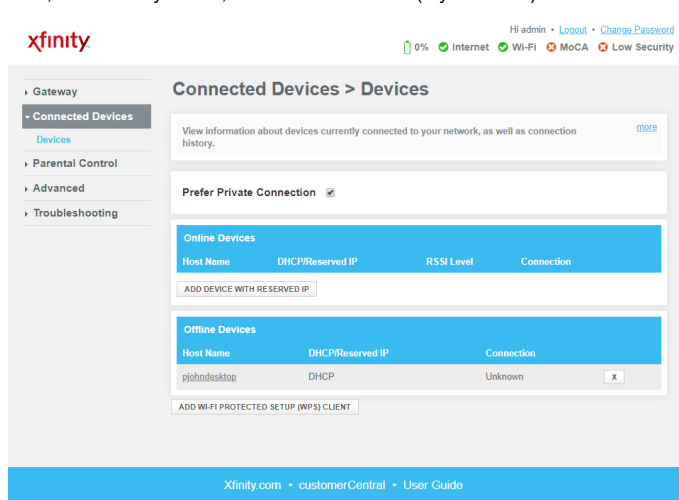
Hi, I build an rdk-b image according to the tutorial and everything went fine so far until I checked with the WiFi information. My goal is to fetch data about connected wifi clients, such as their current RSSI value, via the CcspWifiAgent component.

I flashed the image, booted up for the first time, connected to the standard AP Wifi and configured it via the xfinity webui accordingly.

Afterwards, I connected to the new user defined WiFi sshed onto the RPI. I noticed there is no data available about connected clients under "Device.WiFi." as shown below.

```
root@RaspberryPi-Gateway:~# dmcli eRT getv Device.WiFi.
CR component name is: eRT.com.cisco.spvtg.ccsp.CR
subsystem_prefix eRT
getv_from/to component(eRT.com.cisco.spvtg.ccsp.wifi): Device.WiFi.
Execution succeed.
Parameter 1 name: Device.WiFi.RadioNumberOfEntries
           type: uint, value: 2
Parameter 2 name: Device.WiFi.SSIDNumberOfEntries
           type: uint, value: 16
Parameter 3 name: Device.WiFi.AccessPointNumberOfEntries
           type: uint, value: 16
Parameter 4 name: Device.WiFi.X_CISCO_COM_FactoryReset
           type: bool, value: false
Parameter 5 name: Device.WiFi.X_CISCO_COM_RadioPower
           type: string, value: PowerUp
Parameter 6 name: Device.WiFi.X_CISCO_COM_ConfigFileBase64
           type: string, value:
Parameter 7 name: Device.WiFi.X_CISCO_COM_EnableTelnet
           type: bool, value: false
Parameter 8 name: Device.WiFi.X_CISCO_COM_ResetRadios
           type: bool, value: false
Parameter 9 name: Device.WiFi.X_CISCO_COM_FactoryResetRadioAndAp
           type: string, value:
Parameter 10 name: Device.WiFi.X_RDKCENRAL-COM_WiFi_Notification
           type: string, value:
Parameter 11 name: Device.WiFi.X_RDKCENRAL-COM_Connected-Client
           type: string, value:
Parameter 12 name: Device.WiFi.X_RDKCENRAL-COM_WiFiHost_Sync
           type: bool, value: false
Parameter 13 name: Device.WiFi.X_RDKCENRAL-COM_Br0_Sync
           type: string, value:
Parameter 14 name: Device.WiFi.X_RDKCENRAL-COM_PreferPrivate
           type: bool, value: false
Parameter 15 name: Device.WiFi.X_RDKCENRAL-COM_GoodRssiThreshold
           type: int, value: 0
Parameter 16 name: Device.WiFi.X_RDKCENRAL-COM_PasswordFailureIndicationEnable
           type: bool, value: false
Parameter 17 name: Device.WiFi.X_RDKCENRAL-COM_NoiseFloorIndicationEnable
           type: bool, value: false
root@RaspberryPi-Gateway:~# |
```

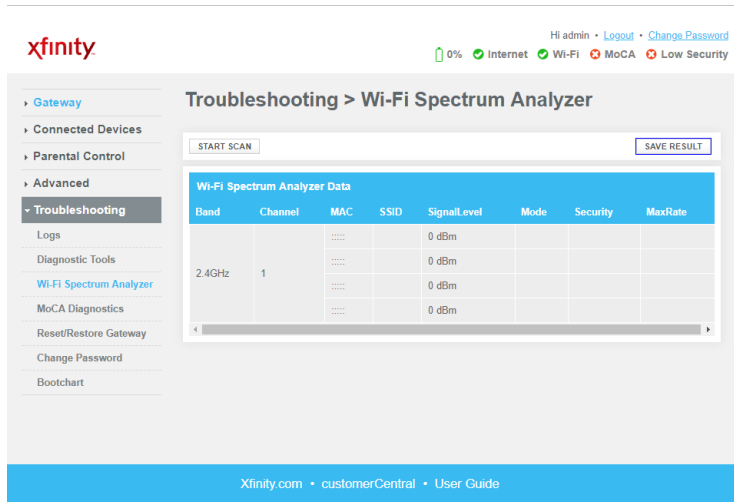
Also, in the xfinity webui, the connected client (my machine) is shown as offline device.



The screenshot shows the Xfinity web interface. At the top, there's a navigation bar with the Xfinity logo and links for 'Hi admin', 'Logout', and 'Change Password'. Below the navigation bar, there's a sidebar with links for 'Gateway', 'Connected Devices', 'Parental Control', 'Advanced', and 'Troubleshooting'. The main content area is titled 'Connected Devices > Devices' and contains a table with 'Online Devices' and 'Offline Devices'. The 'Offline Devices' table has columns for 'Host Name', 'DHCP/Reserved IP', 'RSSI Level', and 'Connection'. It lists a device named 'pihndesktop' with a 'Connection' status of 'Unknown'.

Host Name	DHCP/Reserved IP	RSSI Level	Connection
pihndesktop	DHCP		Unknown

and in the Wifi Spectrum Analyzer Part, the Scan never shows any real data.



I looked into journal log of CcspWifiAgent component and found a lot of errors relating to the interface and seemingly missing binaries. I attached two logs, one of the scan process [wifi\\_scan\\_error\\_log.txt](#) and the other while trying to show the connected devices [connected\\_devices\\_error\\_log.txt](#). I suspect it's merely a configuration issue in yocto where certain dependencies haven't been set properly in the recipes, but that's just a wild guess.

Hopefully, someone can point me to the causes of this issue and how to solve it.

Thanks

UPDATE ON 03.04.2019 - Inserted "ifconfig" output

```
br0      Link encap:Ethernet  HWaddr 1A:D0:39:82:64:AC
        inet addr:192.168.101.3  Bcast:192.168.101.255  Mask:255.255.255.0
        inet6 addr: fe80::18d0:39ff:fe82:64ac/64 Scope:Link
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0
        TX packets:44 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1000
        RX bytes:0 (0.0 B)  TX bytes:3318 (3.2 KiB)

brlan0   Link encap:Ethernet  HWaddr B8:27:EB:5E:D0:BA
        inet addr:10.0.0.1  Bcast:10.0.0.255  Mask:255.255.255.0
        inet6 addr: fe80::6009:51ff:fe87:c646/64 Scope:Link
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:20053 errors:0 dropped:0 overruns:0 frame:0
        TX packets:10691 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1000
        RX bytes:2284539 (2.1 MiB)  TX bytes:3446312 (3.2 MiB)

erouter0 Link encap:Ethernet  HWaddr B8:27:EB:0B:85:EF
        inet addr:192.168.20.180  Bcast:192.168.20.255  Mask:255.255.255.0
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:219956 errors:0 dropped:30933 overruns:0 frame:0
        TX packets:202103 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1000
        RX bytes:23687153 (22.5 MiB)  TX bytes:20757039 (19.7 MiB)

lo       Link encap:Local Loopback
        inet addr:127.0.0.1  Mask:255.0.0.0
        inet6 addr: ::1/128 Scope:Host
        UP LOOPBACK RUNNING  MTU:65536  Metric:1
        RX packets:257576 errors:0 dropped:0 overruns:0 frame:0
        TX packets:257576 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1000
        RX bytes:13261698 (12.6 MiB)  TX bytes:13261698 (12.6 MiB)

wlan0    Link encap:Ethernet  HWaddr B8:27:EB:5E:D0:BA
        inet6 addr: fe80::ba27:ebff:fe5e:d0ba/64 Scope:Link
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:20053 errors:0 dropped:0 overruns:0 frame:0
        TX packets:10889 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1000
        RX bytes:2284539 (2.1 MiB)  TX bytes:3737669 (3.5 MiB)
```

