

WICED Studio Wi-Fi/Combo Forums : WICED IBM IoT Bluemix quickstart

[vikr](#) 2016-3-19

WICED connect to quickstart

Download and install the latest version of WICED SDK, available for Windows, Mac and Linux. To setup on Windows platform, follow the steps present in this link.

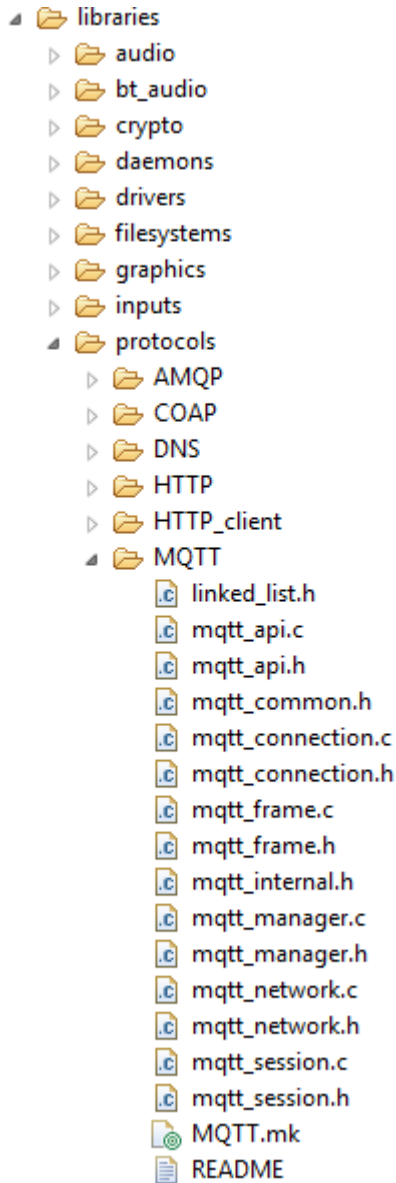
To connect to the Quickstart Service, follow these steps:

Open the WICED SDK eclipse base IDE

Under demo->IBM , place the bluemix_iot quick start project

```
apps
├── demo
│   ├── apollo
│   ├── appliance
│   ├── audio_loopback
│   ├── bluemix_iot
│   ├── bt_internet_gateway
│   └── bt_smartbridge
```

The MQTT library implementation is included in the libraries and can be found under protocol section




WICED SDK setup :

Edit the wifi_config_dct.h under bluemix_iot as per your accesspoint credentials

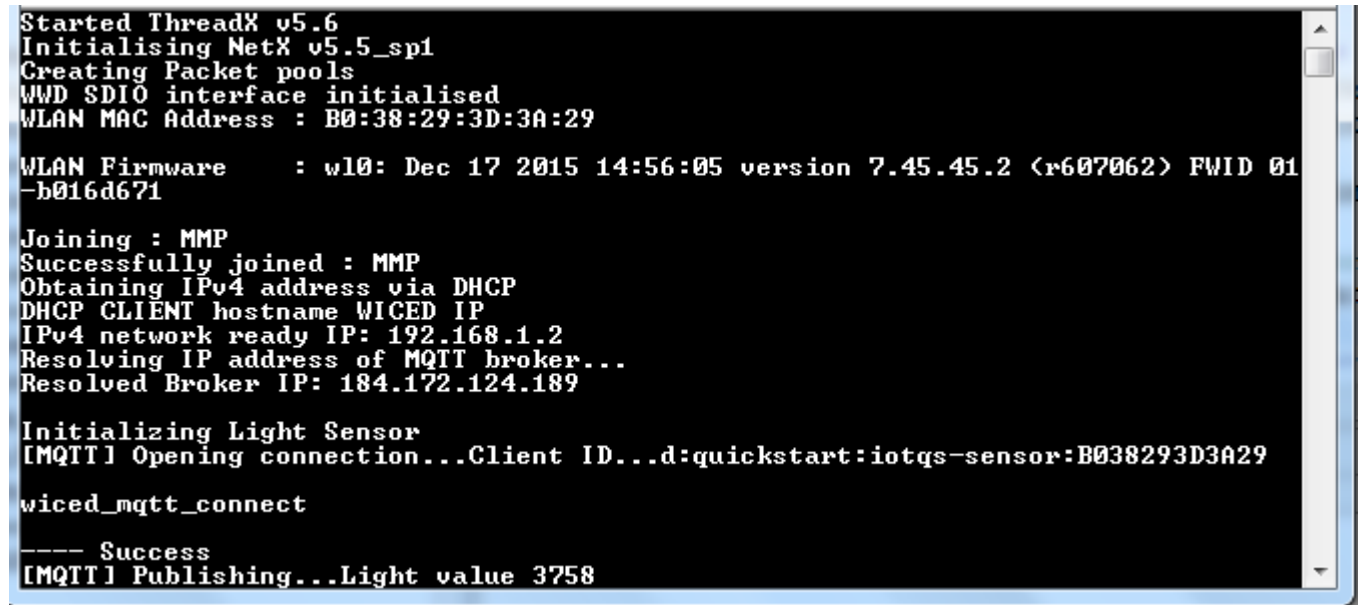
```
/* This is the default AP the device will connect to (as a client)*/  
#define CLIENT_AP_SSID      "YOUR_SSID_NAME"  
#define CLIENT_AP_PASSPHRASE "YOUR_SSID_PASSPHRASE"  
#define CLIENT_AP_BSS_TYPE  WICED_BSS_TYPE_INFRASTRUCTURE  
#define CLIENT_AP_SECURITY  WICED_SECURITY_WPA2_MIXED_PSK  
#define CLIENT_AP_CHANNEL   1  
#define CLIENT_AP_BAND      WICED_802_11_BAND_2_4GHZ
```

In the make target window add the following new target (for this example we have used BCM94343W hardware)

 demo.bluemix_iot-BCM94343WWCD1 download download_apps run

And click on build target for this make target. On successful build and download the application to hardware, open any serial port communication like TeraTerm or Putty to see the hardware console output.

The below console message can be viewed



```
Started ThreadX v5.6
Initialising NetX v5.5_sp1
Creating Packet pools
WWD SDIO interface initialised
WLAN MAC Address : B0:38:29:3D:3A:29

WLAN Firmware      : wl0: Dec 17 2015 14:56:05 version 7.45.45.2 (r607062) FWID 01
-b016d671

Joining : MMP
Successfully joined : MMP
Obtaining IPv4 address via DHCP
DHCP CLIENT hostname WICED IP
IPv4 network ready IP: 192.168.1.2
Resolving IP address of MQTT broker...
Resolved Broker IP: 184.172.124.189

Initializing Light Sensor
[MQTT] Opening connection...Client ID...d:quickstart:iotqs-sensor:B038293D3A29
wiced_mqtt_connect
---- Success
[MQTT] Publishing...Light value 3758
```

Enter the deviceId that you see in the console log, in the quickstart website to visualize the data points as shown below

[IBM Internet of Things Foundation](#)

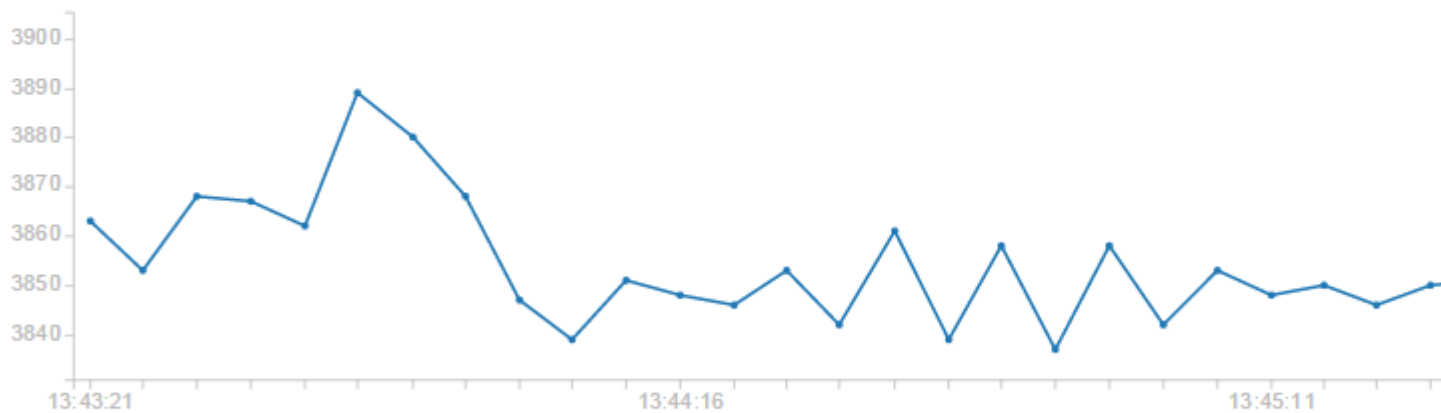


Quickstart

No sign-up required to see how easy it is to connect your device to Watson IoT Platform and view live sensor data

Device d

B038293D3A29



| Event | Datapoint | Value | Time Received |
|-----------|-----------|------------|-------------------------|
| iotsensor | name | WICED4343W | Mar 19, 2016 1:45:46 PM |
| iotsensor | amb_light | 3864 | Mar 19, 2016 1:45:46 PM |

At this step, we have successfully sent the sensor data to IBM Watson IoT Platform Quickstart service using the WICED hardware

- [bluemix_iot.zip](#) 4.3 K

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Broadcom BCM4343 SDK on developerWorks:

<https://developer.ibm.com/recipes/tutorials/avnet-bcm4343w-iot-starter-kit/>

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BlueMix on Avnet's Cloud Marketplace

<https://act.avnetcloudready.com/catalog#!/q/ibm>



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If you are looking to do this with ZentriOS, a new tutorial was also uploaded to support IBM Bluemix with ZentriOS. Find the new tutorial here: [Beginners guide to ZentriOS : IBM Bluemix](#)



user_114741021

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Note, a "recipe" based on this but specifically targeting the **Avnet BCM4343W IoT Starter Kit** is available at:

<https://developer.ibm.com/recipes/tutorials/avnet-bcm4343w-iot-starter-kit>