Changing the IP Address of DCA1000EVM

- **If the current DCA100EVM IP address is unknown:**

    1. Place **SW2.6** to the **ON** position (towards pin 11).
    2. Power cycle the DCA1000EVM (This loads the default ethernet settings from the DCA1000EVM's fpga).
    3. The IP address for the DCA1000EVM is now 192.168.33.180.
    4. Set the IPv4 address on active PC LAN port to 192.168.33.30.
        i. Search on Windows start menu "**View Network Connections**" and press "**Enter**".
        ii. Right click on LAN port and select "**Properties**".
        iii. Select "**Internet Protocol Version 4 (TCP/IPv4)**" from the list.
        iv. Click "**Properties**".
        v. Enter the following:

            IP address: 192.168.33.30
            Subnet mask: 255.255.255.0

        vi. Press "**OK**" then press "**Close**" to finish setting your LAN port to the fixed IP address.
    5. Follow instructions beginning below.

- **If current DCA100EVM IP address is known:**

    1. Modify DCA1000EVM configuration file (.json):
        i. Open the default cf.json file located in:

            C:\ti\mmwave_studio_xx_xx_xx_xx\mmWaveStudio\PostProc\

        ii. Lines 9 - 20 will have the following format:

```
[9]   "ethernetConfig": {
[10]  "DCA1000IPAddress": "192.168.33.180",          < - - current DCA IP Address
[11]  "DCA1000ConfigPort": 4096,
[12]  "DCA1000DataPort": 4098
[13]  },
[14]  "ethernetConfigUpdate": {
[15]  "systemIPAddress": "192.168.33.30",            < - - future System IP Address
[16]  "DCA1000IPAddress": "192.168.33.180",          < - - future DCA IP Address
[17]  "DCA1000MACAddress": "12.34.56.78.90.12",
[18]  "DCA1000ConfigPort": 4096,
[19]  "DCA1000DataPort": 4098
[20]  },
```

iii. Ensure that the IP address on line 10 matches the current IP address of the DCA1000EVM.
iv. Change the IP addresses on lines 15 - 16 to the new IP address.
v. Save the json file under a new name, such as: **newIP.json**.

2. Sending the new configuration file to DCA1000EVM:
   i. Power cycle the DCA1000EVM.
   ii. Open Powershell.
   iii. Use the following commands to enter the correct directory and update the DCA1000EVM's EEPROM.

```
cd "C:\ti\mmwave_studio_xx_xx_xx_xx\mmWaveStudio\PostProc\"
.\DCA1000EVM_CLI_Control.exe eeprom newIP.json
```

3. Set the IPv4 address on active PC LAN port to the **new System IP Address**:
   i. Search on Windows start menu "**View Network Connections**" and press "**Enter**".
   ii. Right click on LAN port and select "**Properties**".
   iii. Select "**Internet Protocol Version 4 (TCP/IPv4)**" from the list.
   iv. Click "**Properties**"
   v. Enter the following:

```
IP address: 192.168.xxx.xxx        < - - new System IP Address
Subnet mask: 255.255.255.0
```

   vi. Press "**OK**" then press "**Close**" to finish setting your LAN port to the new IP address.

4. Update json file:
   i. In the json file, change line 10 to match the IP address on line 15.
   ii. Save changes.

5. Verify changes:
   i. Place **SW2.6** to the **OFF** position (towards pin 6).
   ii. Power cycle the DCA1000EVM. (This loads the ethernet settings from the DCA1000EVM's EEPROM).
   iii. Open Powershell.
   iv. Use the following commands to enter the correct directory and verify system status.

```
cd "C:\ti\mmwave_studio_xx_xx_xx_xx\mmWaveStudio\PostProc\"
.\DCA1000EVM_CLI_Control.exe query_sys_status newIP.json
```

   v. If response is "System is connected" then the device is functioning properly. If the response is "System is disconnected" then ensure that the following are true:
      - SW2.6 is in the OFF position (towards pin 6).
      - PC's IP Address is set to the correct IP Address for the system and not the IP Address for the DCA.
      - Correct json file is called when running 'query_sys_status' command.

*Note: If you want to use different IP address with mmWaveStudio, make sure the json is called **cf.json**.