Setting a Meter to a Static IP Address

Dated: August 18, 2014 By: Tech Support

General:

Meter sent by Energy Tracking by default are configured for DHCP which allows them to get an IP address from the router automatically thus enabling plug-n-play operation. However, there may be one or more reasons to set a meter to a static IP address such as port forwarding, increasing the resiliency due to long term router / network outages.

Steps:

- 1. Connect your laptop to the same network that the meter is connected on.
- 2. Log-in to the router and identify the settings for the DHCP Server:

DHCP Server:	Enabled Obisabled DHCP Reservation
Start IP Address:	192 . 168 . 4. 1
Maximum Number of Users:	50
IP Address Range:	192 . 168 . 4. 1 to 50
Client Lease Time:	5 minutes (0 means one day)
	Figure 1:

- 3. In the example above, you will note that the router is set to lease up to 50 IP addresses. This means that any IP address range from 192.168.4.51 to 192.168.4.254 can be selected to be used for a static IP address. We recommend using one (last octet) that is between 200 ~ 254 such as 192.168.4.250 but before that we must confirm that the selected IP address is not currently in use.
- 4. Launch a DOS "Command Prompt" as shown below. We will try to "ping" the IP address by typing *ping* 192.168.4.254 and then press Enter"



Figure #2:

If we get a reply back as shown above, we cannot use this address so we try another IP address as shown below.



Figure #3:

OK, we can use the IP address 192.168.4.253.

5. Next we need to know the Subnet and Gateway details. At the prompt, type in *ipconfig* as shown below.

Command Prompt	-
C:\Users\Valued Customer>ipconfig	^
Windows IP Configuration	
Ethernet adapter Local Area Connection:	Ш
Connection-specific DNS Suffix .:	
Link-local lPvb Hddress : fe80::c154:D4f2:lcc3:db84%10 IPv4 Address : 192.168.4.31 Subset Mask	
Default Gateway : 192.168.4.80	

Figure #4:

- 6. Finally, we need the DNS IP address that are provided by the router. These can be used but we recommend using the "Google DNS". DNS 1: 8.8.8.8 and DNS 2: 8.8.4.4
- 7. Log-In to the meter. Menu >> Setup >> Main Configuration and enter the values as shown below. Please double check your entered values.

Static Network Setup:		
Disable DHCP	✓ Use Extreme Care!!!	
IP Address	192.168.4.253	
Subnet	255.255.255.0	
Gateway	192.168.4.80	
DNS Setup: (Reqd. if using a Static IP Address)		
DNS 1	8.8.8.8	
DNS 2	8.8.4.4	

Figure #5:

Scroll to the bottom of the web page and click on the "Submit" button. The meter will reboot in 35^{40} seconds.

Please contact <u>support@energytracking.com</u> for any additional questions you may have.