## **Troubleshooting the USB WiFi Router on FON Networks**

The usual symptom we hear is that all seems well and good when the connection is made, however the user cannot get access to the FON log on page as much as they try. The reason for this is because the default gateway (the router that the FON service is using) has the same LAN IP address as the USB WiFi Router – this means that there is a clash of IP addresses...

Two devices on the same network must never be assigned the same address, routers especially.

So the solution to the problem is to give the USB WiFi Router a different LAN IP address which isn't in the same network range of the FON service (the network range is denoted by the *subnet* which is the third segment of an IP address **192.168.2.1**):

In order to do this you must click on the **Advanced** tab and choose **LAN**, this will take you to the page where you can change the LAN IP address under the heading **LAN Setup**.

Here we will change the LAN IP address from **192.168.2.1** to **192.168.50.1**, you will notice that the DHCP settings will automatically update as well. **Click Apply** to save the settings.

			11n 3G USB Router
Status	Easy Setup	Advanced	Language English V
Local Area Network (LAN)	Settings		
This section is provided to cont	igure LAN settings like DHCP and other ne	tworking features.	
LAN Setup			
MAC Address	0	0:C0:CA:80:BE:D0	
IP Address		92.168.50.1	
Subnet Mask	2	55.255.255.0	
DHCP Setup			
DHCP Server	E	nable 🔻	
Start IP Address		92.168.50.100	
End IP Address		92.168.50.199	
Lease Time		Dne day 🔻	
Other Setup			
LLTD		Disable 🔻	
IGMP Proxy		Disable 🔻	
UPNP	E	nable 🔻	
PPPoE Relay		Disable 🔻	
	Apply	Cancel	
	Арру		
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The USB WiFi Router will now be set to the new IP Address of **192.168.50.1**, so whenever we want to access it we must use this address in the web browser instead of the original **192.168.2.1**.

We'd recommend that after you change any settings on the router you should momentarily turn off the WiFi on the device you're using to connect to it and then turn it on again and reconnect.

The reason for doing this is so your tablet, laptop, etc... gets a fresh update on the information it has about the configuration.

Unfortunately some devices don't recognise these changes and cache the info about the settings, this can sometimes lead to you getting locked out when everything appears to be fine.

If you cannot re-connect you should forcibly forget/remove the router from your device's WiFi network list and then re-connect to the router when it appears again as an available WiFi network.

To observe the IP addresses click on the **Status** tab, here you'll see the **Default Gateway** (FON network in this context) that you are connected to and also the address the FON network has assigned to the USB WiFi Router (**WAN IP Address**).

You will also notice the LAN IP Address here as well, and if there is an IP address clash between the USB WiFi Router and the FON network then you will notice that the LAN IP Address and WAN IP Address will be the same.

Internet ConfigurationConnected TypeDHCPConnected StatusConnectedNAN IP Address192.168.27.135Subnet Mask255.255.255.0Default Gateway192.168.27.1Primary Domain Name Server8.8.8.8Secondary Domain Name Server8.8.8.100:C0:CA:80:BE:D1LAN Configuration192.168.50.1LAN Netmask255.255.255.0System Info92.168.50.1LAN Netmask255.255.255.0Firmware VersionV1.2.1.2N(Sep 10 2013)System TimeSat, 01 Jan 2011 00:12:Operation ModeRouter ModeSat, 01 Jan 2011 00:12:Sat, 01 Jan 2011 00:12:	Configuration   Connected Status   Connected datus     Type   DHCP   Connected Status   Connected datus     dress   192.168.27.135   Subnet Mask   255.255.0     neway   192.168.27.1   Primary Domain Name Server   8.8.8.8     Domain Name Server   MAC Address   00:C0:CA:80:BE:D1     guration   192.168.50.1   LAN Netmask   255.255.0     ss   00:C0:CA:80:BE:D0   255.255.0
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