

Locating/Changing the IP Address Using the Serial Port

HW260A Platform

Date: June 1st, 2015
Revision 1.5

Introduction

This document describes how to locate and change an RTA gateway using the hardware's serial port. This can be very helpful if you have no idea what network the gateway is set to and IPSetup has failed.

The tool demonstrated in this document is called Mttty. It can be found on the CD provided with your gateway or on our website at <http://www.rtaautomation.com/product/435-nbx-support/>.

This tool allows the user to display/change the IP Address of the gateway by connecting serially to the gateway.

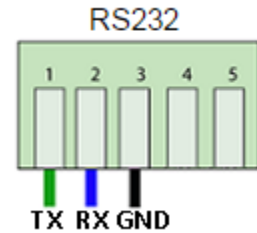
Required Tools and Data

You will need the following tools:

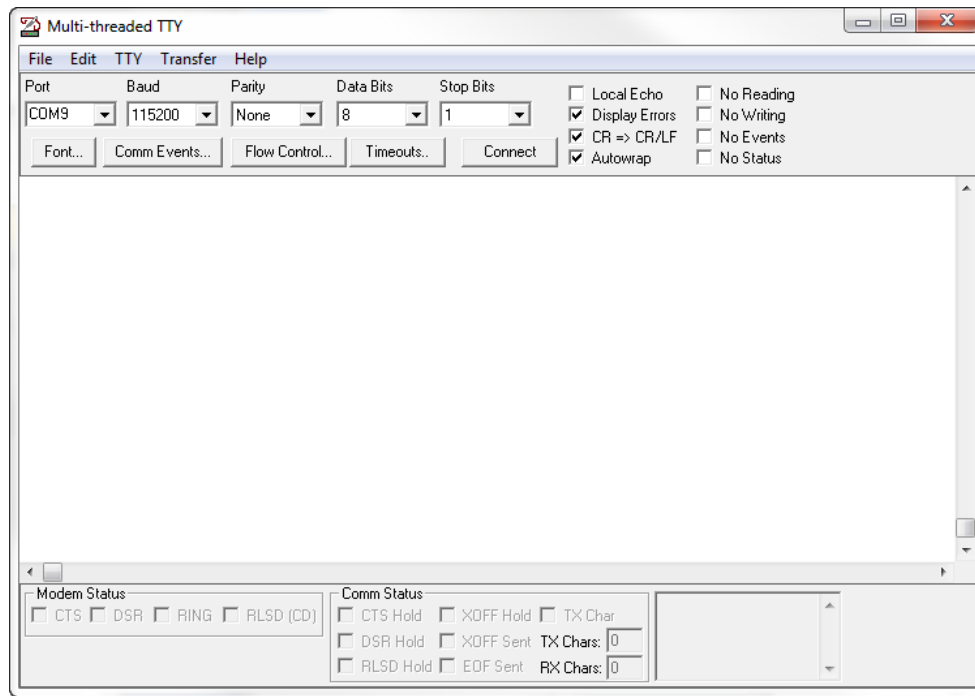
- The Gateway
- The provided CD-ROM
 - Mttty.exe can also be downloaded:
<http://www.rtaautomation.com/product/435-nbx-support/>
- A Working PC (Windows based) with a serial port or a USB to Serial Converter
- The Supplied Ethernet Crossover Cable
- A serial cable with pins TX, RX, Ground connected to the 5-Pin Terminal Strip
- A 12-24 VDC power source

Changing / Viewing the IP Address of a Gateway

1. Plug a cable going from our 5-Pin Terminal Strip to a serial port or USB to Serial Converter into your PC running Mttty.
 - a. The RX pin should go to the TX Pin 1
 - b. The TX pin should go to the RX Pin 2
 - c. The Ground pin should to the Common Pin 3
2. Connect your PC to the gateway using a crossover cable.
3. Open Mttty (refer to the Required Tools and Data for how to obtain).
4. Set the following Serial Settings:
 - a. Select the Com Port of the PC you are using
 - b. Baud: 115200
 - c. Parity: None
 - d. Data Bits: 8
 - e. Stop Bits: 1



Click the 'Connect' button.



5. Connect a 12-24 VDC power source to the gateway.

6. Once the unit powers up, you will have 2 seconds to hit 'Shift A' on your keyboard to access the hidden startup menu that will allow you to view or change the IP Address.

If you have successfully pressed 'A' within the 2 second window, the following prompt will display:

```
Waiting 2sec to start 'A' to abort

Configured IP = 10.1.54.105
Configured Mask = 255.255.0.0
MAC Address= 00:03:F4:08:fa:09iBoot config valid
nb>Welcome to the Netburner Alternate Boot Monitor  Command Program
Starting Monitor...

Netburner MCF5441x Alternate Image Monitor V1.00 May 23 2012 13:27:35
HELP for help
nb>
```

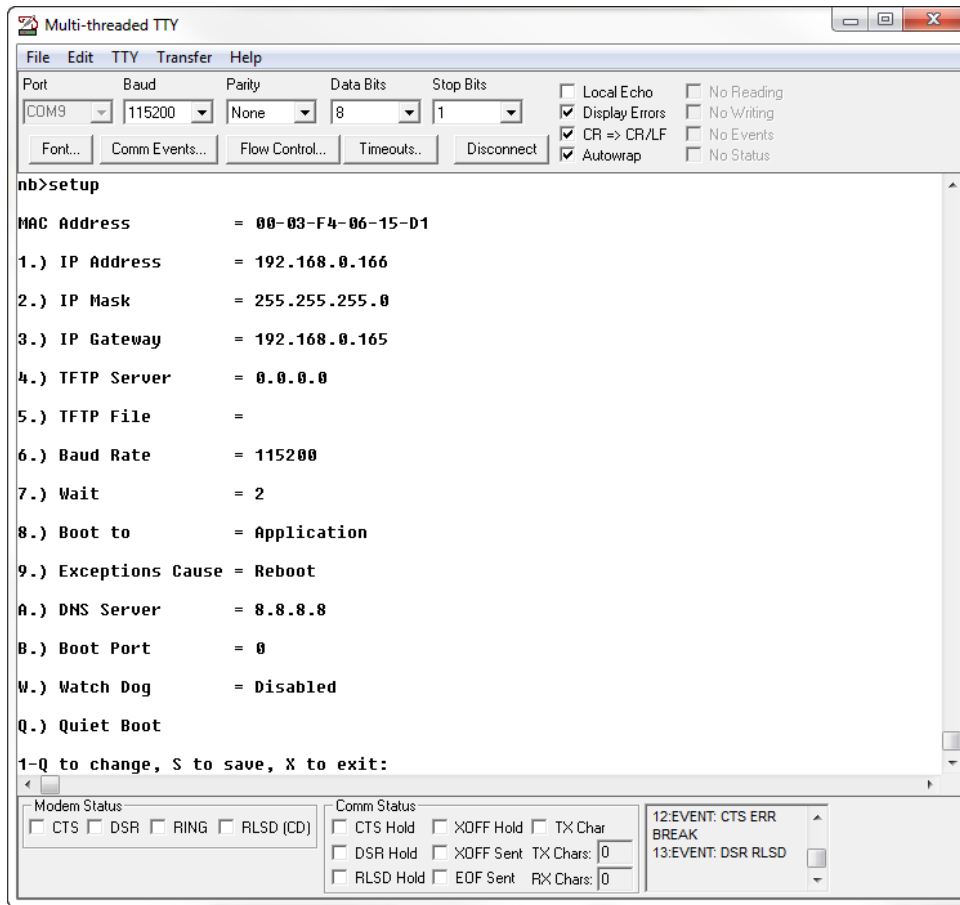
Modem Status		Comm Status		11:EVENT: CTS			
<input type="checkbox"/> CTS	<input type="checkbox"/> DSR	<input type="checkbox"/> RING	<input type="checkbox"/> RLSD (CD)	<input type="checkbox"/> CTS Hold	<input type="checkbox"/> XOFF Hold	<input type="checkbox"/> TX Char	12:EVENT: CTS
				<input type="checkbox"/> DSR Hold	<input type="checkbox"/> XOFF Sent	TX Chars: 0	13:EVENT: CTS
				<input type="checkbox"/> RLSD Hold	<input type="checkbox"/> EOF Sent	RX Chars: 0	

If no prompt appears, then check the wiring and serial settings to make sure those match. Also make sure you are connecting on the correct Com port.

7. At the "nb>" prompt, type "setup" and press enter. You will now see what the current settings are for the IP Address, IP Mask, etc.

If you want to change those current settings, a list of options will be given allowing you to change the IP Address, IP Mask, etc..

NOTE: Only modify the IP Address, IP Mask, and IP Gateway field as needed. Changing other settings may produce undesired results.



8. When changes are made enter 'S' to save.

9. Cycle power to the gateway to apply the changes just made in Mttty.

Support for your device is available any time.

Toll free: 800-249-1612

Email: support@rtaautomation.com