

Over the Air Configuration

Web Based Configuration

The 915U-2 modules communicate using Standard Ethernet Protocols which makes it possible to connect to other 915U-2 module within the radio network for over the air diagnostics or configuration changes.

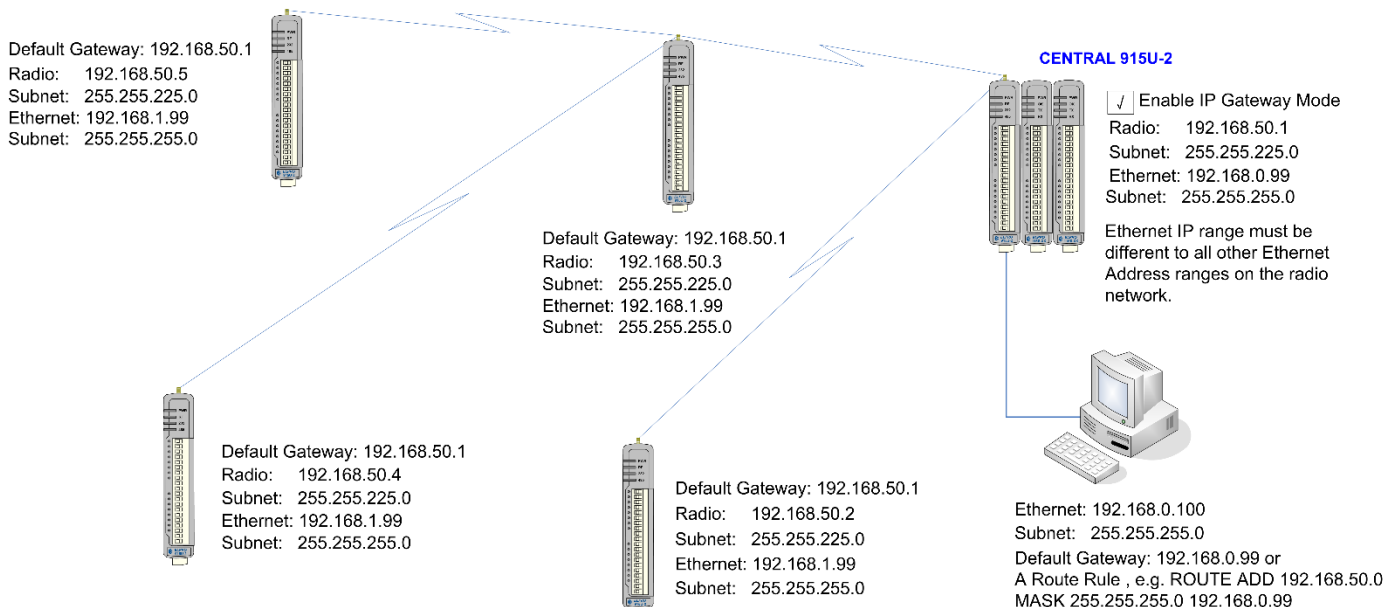
A little forethought when designing the system is required as some minor configuration settings are needed to implement the over air configuration.

The Multi point to point system shown below in Figure 1 will require the following.

- Default Gateway address in all remote modules needs to point back to the Central 915U-2 module radio IP address (i.e. 192.168.50.1)
- Central 915U-2 needs to have the “IP Gateway Mode” enabled on the “Mesh” webpage (see 915U-2 User manual Appendix F:“Web Page Configuration “for details).
- Ethernet IP address range on the remote modules must be different to the Ethernet IP address range on the Central 915U-2 module or disabled (see 915U-2 User manual Appendix F:“Web Page Configuration “)
- PC must have its Default Gateway address set to the Central 915U-2 Ethernet IP Address or it must have a route added to its default routing table, e.g. “ROUTE ADD 192.168.50.0 MASK 255.255.255.0 192.168.0.99

If the system is configured as per above it will allow configuration and diagnostics access for all remote modules from the PC connected to the Central 915U-2 module.

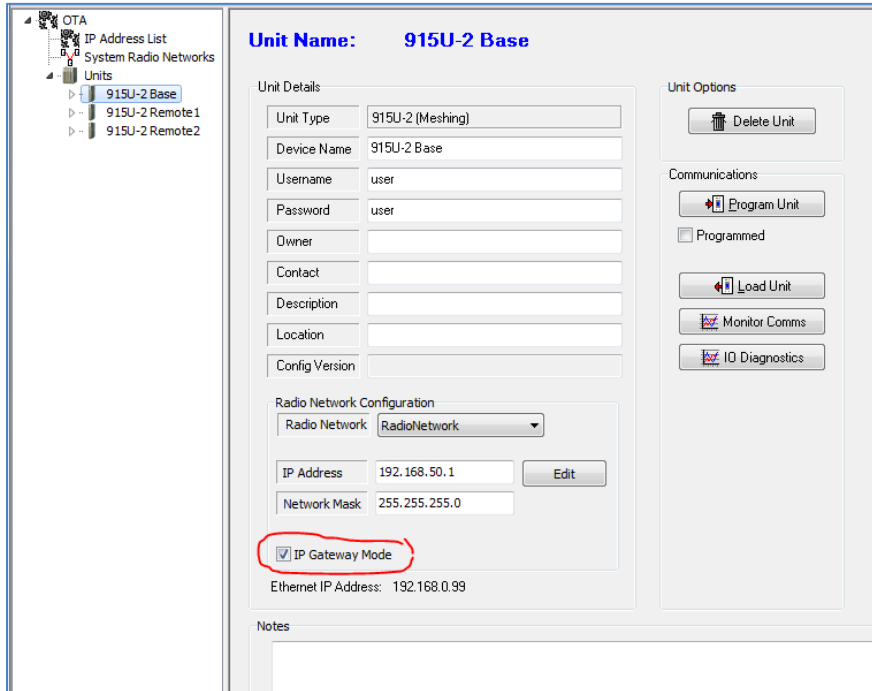
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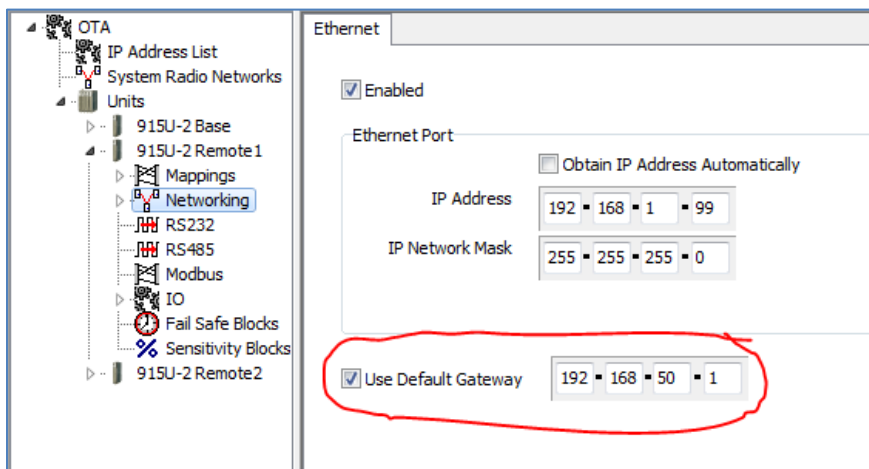
Over the Air configuration using M-Config Software

With over the Air configuration you need to make sure you have 4 things in place.

1. Base radio must have the IP Gateway enabled



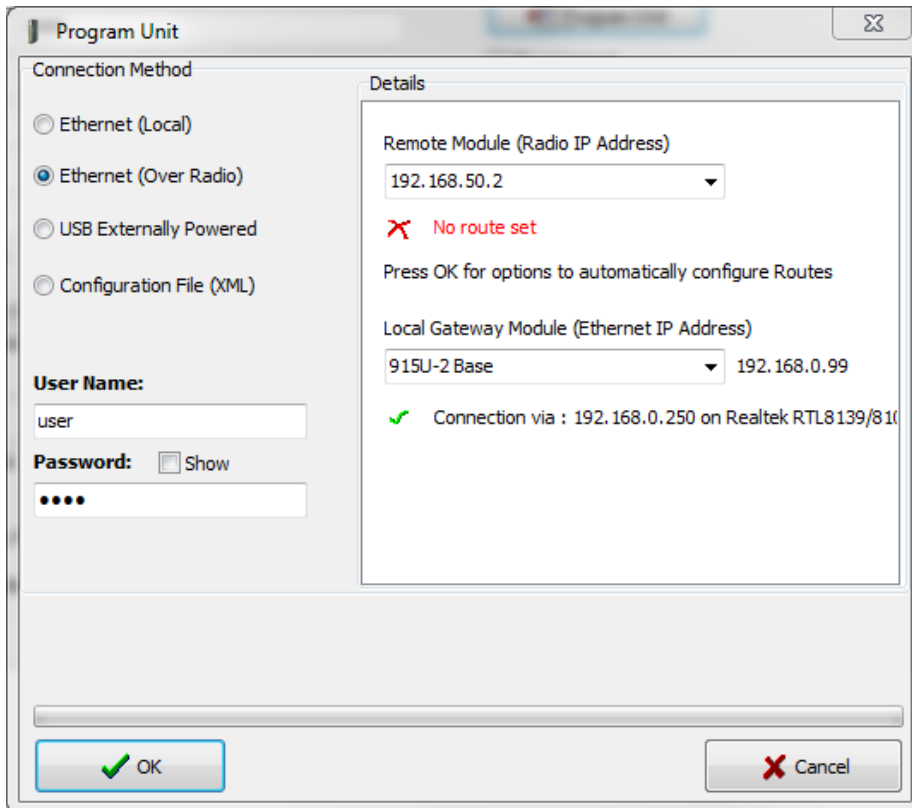
2. All Remote Radios must have the "Use Default Gateway" enabled and the IP address must match the Base radios radio IP address.



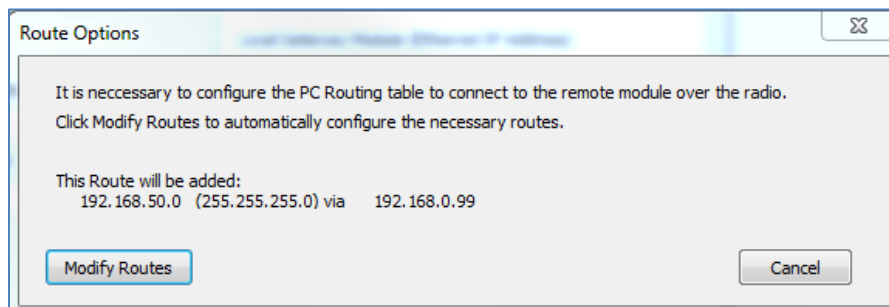
3. Next you need to make sure the Remote LAN IP subnet is different to the Base radio LAN subnet, in the example the Base modules LAN subnet is 192.168.0.X and the remote modules LAN subnet is 192.168.1.X. All radios will need to be configure with these initial settings before the OTA will function.

4. Finally when modules have been configured via Ethernet and restarted you can use the PC that is plugged into the Base radio to configure and diagnose over the air. All that should need doing is to add a Route to the PC so it knows how to get to the remote Radio Subnet (192.168.50.X)

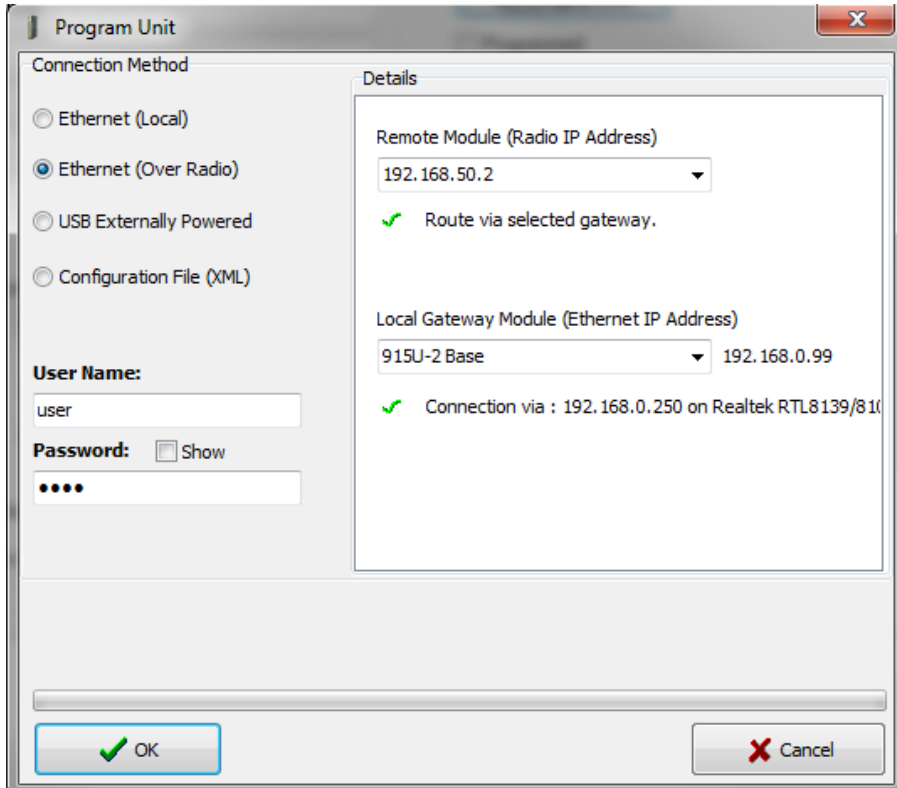
This is done when you select “Program unit” you should see something like the screen below indicating that it cannot connect to 192.168.50.X network as it has no route or a conflicting route.



Press “OK” for routing options and you should get a message to modify the routes on the PC, see picture below



If you press the “Modify Routes” button it will add the Route to the PC and you should see Green ticks on the Program screen



Now you should be good to Program the remote radios over the air from the Base radio.