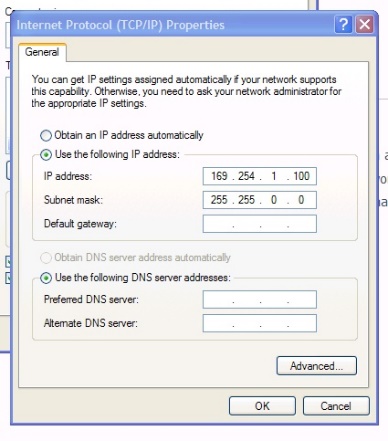
**PTP650 survey kit**

1. Power on the PTP650 integrated unit by connecting its PSU port to the PoE injector using an ethernet cable. This cable should be long enough to reach the predicted antenna height
2. Connect an ethernet cable from the LAN port of the PoE injector to the Laptop
3. Change or confirm the IP address of the Laptop is set to be in the same subnet as the PTP650 units but with no conflicts – (In this case, it’s recommended to set your laptop IP to 169.254.1.X00 where X is the last digit of the PTP650 unit’s IP which is labelled at the back of the device.
4. Leave the default subnet mask at 255.255.0.0 and the gateway blank and press OK



1. The network connection in the laptop should be up now. If not, please make sure that the cables are connected correctly and device is powered up properly.
2. Open the browser and Type the IP address of the unit as in its label and ‘ENTER’



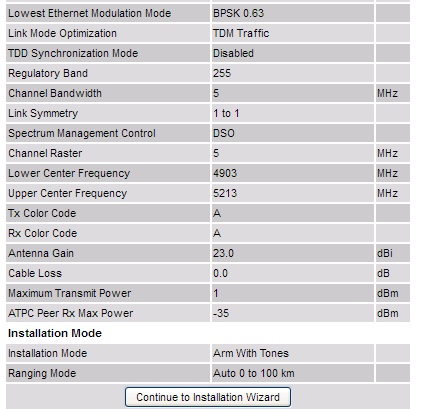
1. It will take to the summary status page of the unit. Now, Click on the ‘Installation’ menu in the left-hand side box



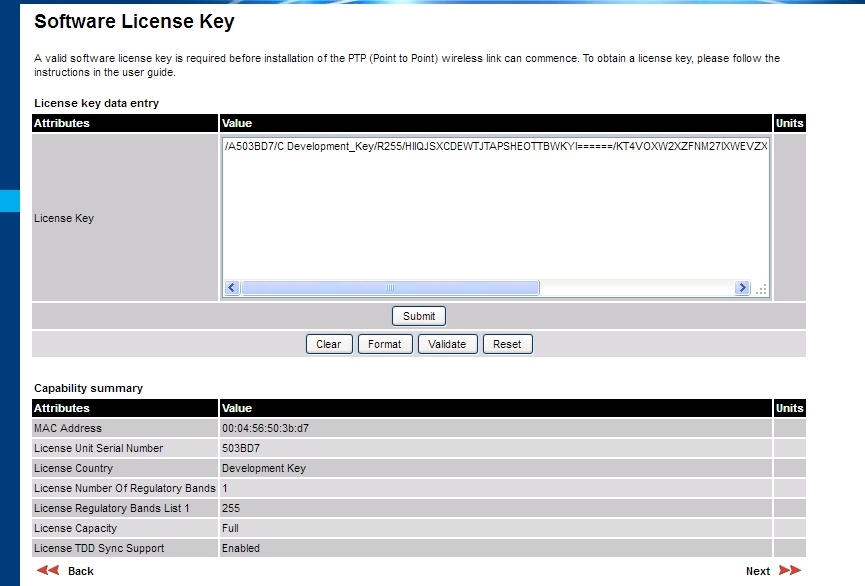
1. Input the password (in this situation just click the login button because there is no password)



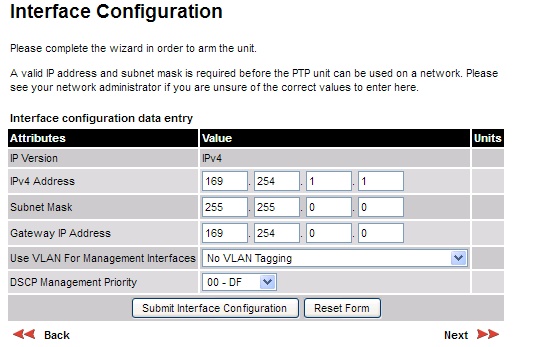
1. Scroll down to the bottom of the page and click ‘continue to installation wizard’



1. On the Software Licence Key page, do not change/edit any values. Please Click ‘Next ‘

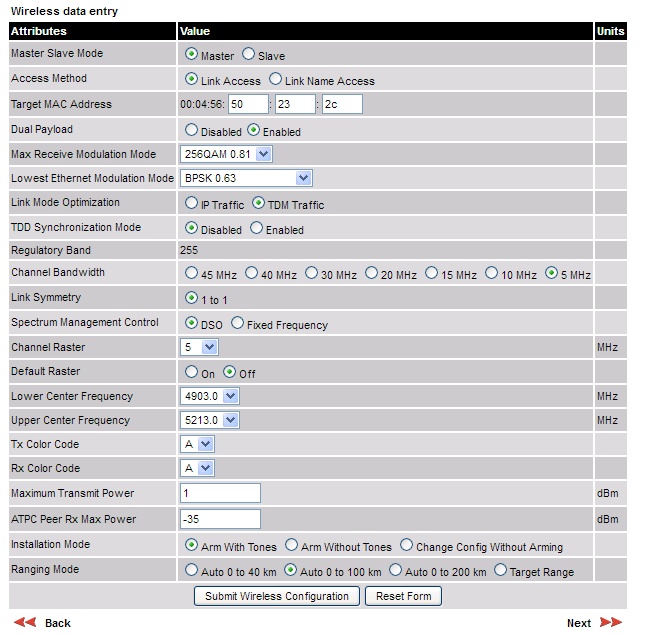


1. On the ‘Interface Configuration page’, do not change/edit any values. Please Click ‘Next ‘.

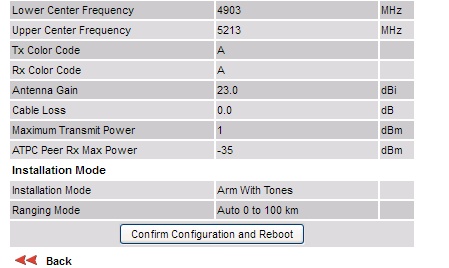


1. On the ‘Wireless Data Entry’ page, please make sure

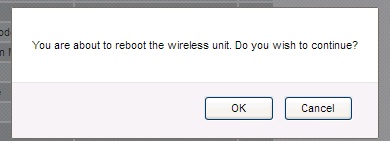
* the ‘range mode’ set to ‘Auto 0 to 100km and
* the ‘Installation mode’ set to ‘Arm with tones’ and
* The ‘Maximum Transmit Power’ set to 24 dBm
* Leave the other fields with the default values as in the picture below.
* Then click ‘next’



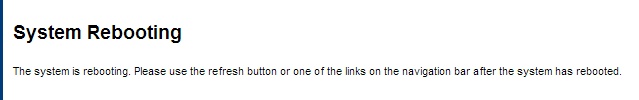
1. Scroll down and click ‘confirm configuration an reboot’



1. Click ok when you are asked to confirm the rebooting.

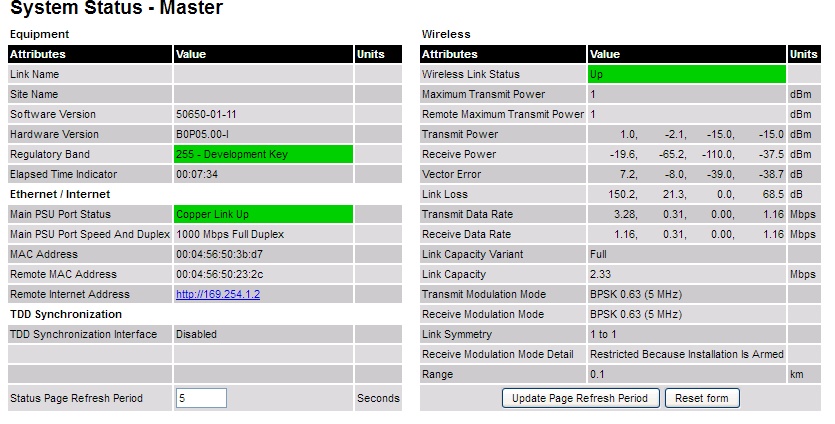


1. Then the system rebooting page should come up

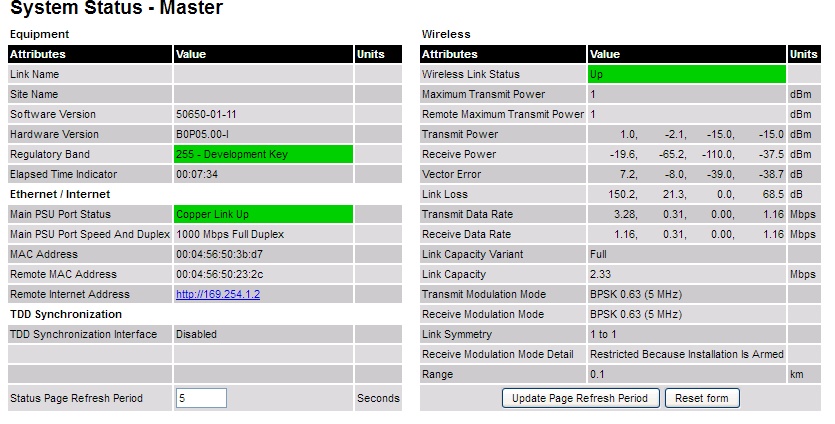


*If you are using exactly the same unit and the laptop in similar surveys, then steps 3-15 may already have been configured. It’s still recommended to go through the process for the accuracy.*

1. After the reboot, you will be able to reconnect to the unit by refreshing web interface or by typing the unit’s IP address.
2. Because, you have enabled the Installation Arming Mode, the unit will make different type of beeps sound based on its link acquisition status and your end of the unit is ready for link survey. Please be familiar with the status tones in a Lab environment so that the job will be easier on site.
3. Now, it’s the Mast climbing engineer’s choice whether to take the unit and one end ethernet cable to power up after reaching survey height or it can be powered up first and then climb.
4. Now, wait for the engineers at other end to do the same preparations. Once they are ready, you can pan the units at both ends of the link until you hear the ‘Link up status’ tone.
5. Then, in the web interface, click on ‘installation menu’ in the left-hand box in order to enable the admin privilege and then click back on the status icon and the refresh period should be changed to 5 seconds so that you can see frequently updated signal levels.



1. The engineer in the mast can continue panning while the engineer in the laptop observing the web interface for the best received signal. Eg-The received signal in the following screen shot is -37.5 dBm.



1. You will capture screen, save it and record the readings in the provided PTP form. Additionally, you will have to take photos of the survey location in the mast. If the received signal level is not within the predicted tolerance level, then you will need to repeat the step 21 at higher antenna heights until you get acceptable signal.

If you don’t get the expected RSL even after repeating the process at different heights, then it deemed to be a failed link. You will have to gather any evidences/photos of the trees, buildings, etc caused for the failure in the LOS path of the link.

1. Once you have completed the link survey, then you will also need to do the Installation survey with photos/nots/evidences on site considering the

* number of links in the design
* WAM site
* Cable routes
* Cabin location
* Space in the tower
* Surroundings

1. Submit/Upload the online forms at TES Website