



Ubiquiti Legacy CPE Configuration Guide



Setup Legacy Configurations

1. A Ubiquiti Legacy configuration file can be downloaded at <https://wisprsystems.com/support/>, under the name “Ubiquiti Legacy Configuration file”, this can be used to upload to your CPE to confirm the network lines up with the WISPr OS network. The picture seen below shows where to choose the configuration file to upload to the CPE.

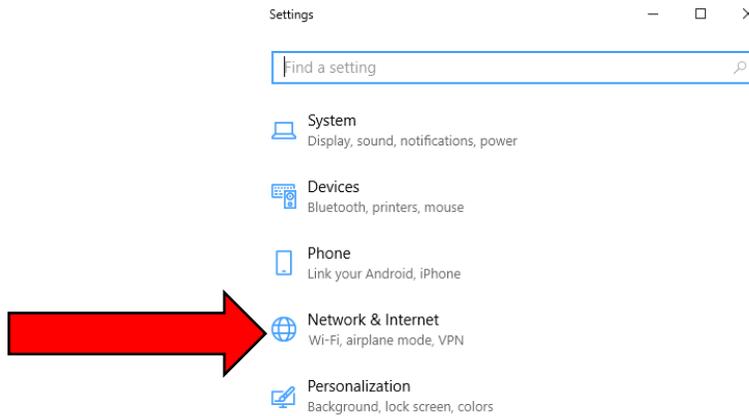
The screenshot displays the WISPr OS configuration interface with the 'SYSTEM' tab selected. The interface is divided into several sections:

- Firmware Update:** Shows Firmware Version: XW.v6.1.8 and Build Number: 32774. Includes an 'Upload Firmware' section with a 'Choose File' button and 'No file chosen' text. A 'Check for Updates' section has a checked 'Enable' checkbox and a 'Check Now' button.
- Device:** Includes 'Device Name' (NanoStationLegacy) and 'Interface Language' (English).
- Date Settings:** Includes 'Time Zone' (GMT-12:00), 'Startup Date' (Enable checkbox), and a date picker.
- System Accounts:** Includes 'Administrator User Name' (ubnt) and 'Read-Only Account' (Enable checkbox).
- Miscellaneous:** Includes 'Reset Button' (Enable checkbox).
- Location:** Includes 'Latitude' and 'Longitude' input fields.
- Device Maintenance:** Includes 'Reboot Device' (Reboot... button) and 'Support Info' (Download... button).
- Configuration Management:** Includes 'Back Up Configuration' (Download... button), 'Upload Configuration' (Choose File button, No file chosen), and 'Reset to Factory Defaults' (Reset... button).

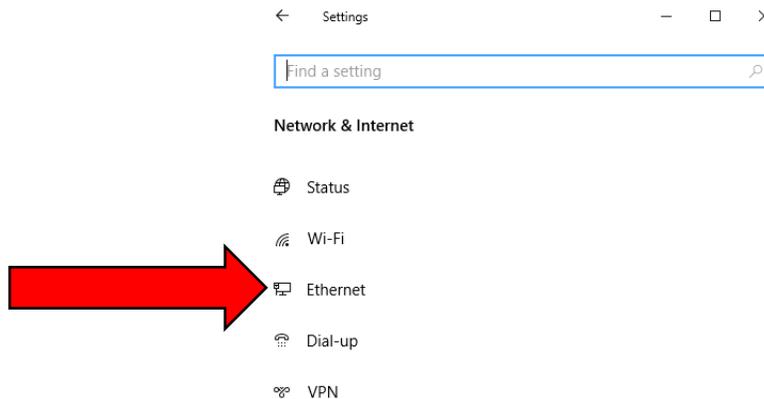
A red arrow points to the 'Choose File' button in the 'Upload Configuration' section.



2. After uploading the configuration to the CPE, the user can connect/power the CPE via the WISPr drone's POE and the WISPr OS and move to step 3 or do as done below in a.
 - a. If using a POE Switch and a computer to configure the CPE, configure your computer network as shown below in i-viii.
 - i. To accomplish this first search for "Settings" then click and open.
 - ii. Next click "Network & Internet" as seen in the picture below.

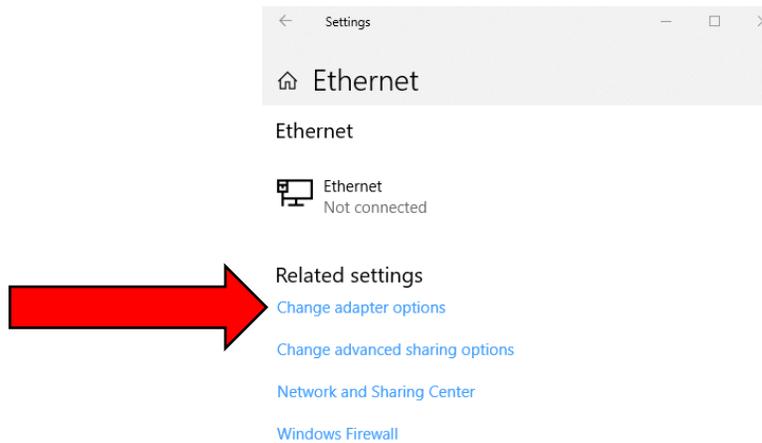


- iii. Next click "Ethernet" as seen in the picture below

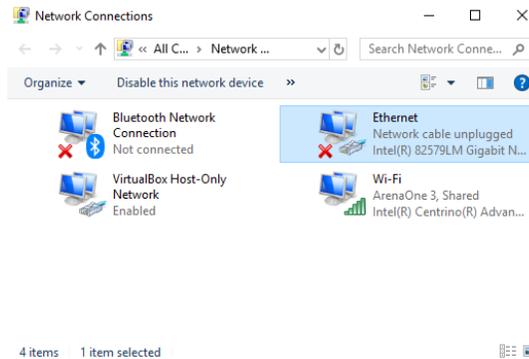




iv. Next click “Change adapter options” as seen in the picture below.

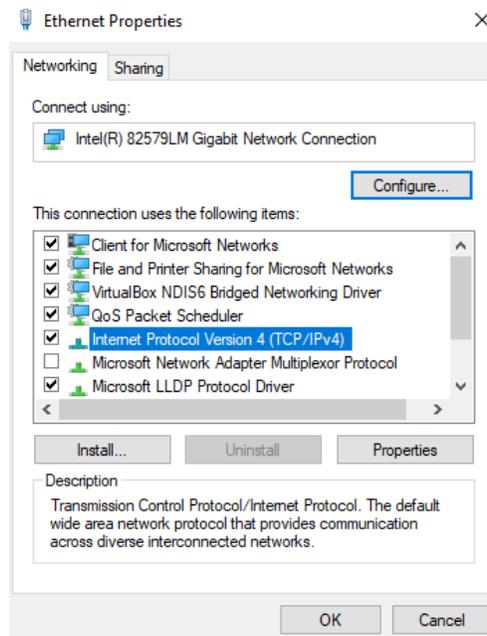


v. Next click the adapter in which your ethernet cable is plugged in, in this example ours is the Intel® 82579LM Gigabit ethernet port, which means click “Ethernet”, this can be seen in the picture below

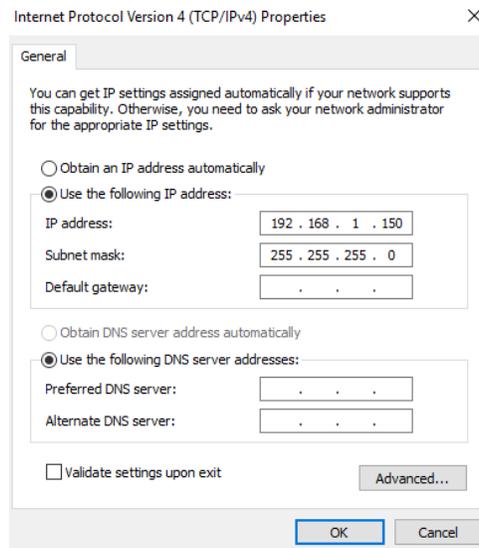




vi. Next click “Internet Protocol Version 4 (TCP /IPv4)” as seen in the picture below



vii. Configure the network as seen in the picture below, then click “OK” when complete



viii. Once this is done open a web browser and go to 192.168.1.20 and move to step 3.

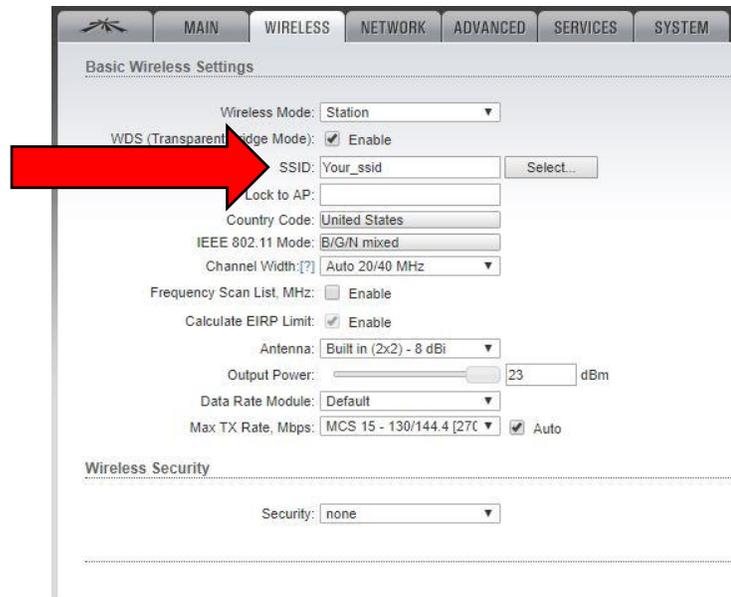




3. Login to the CPE using the credentials seen below
 - a. Username: **ubnt**
 - b. Password: **wispr**

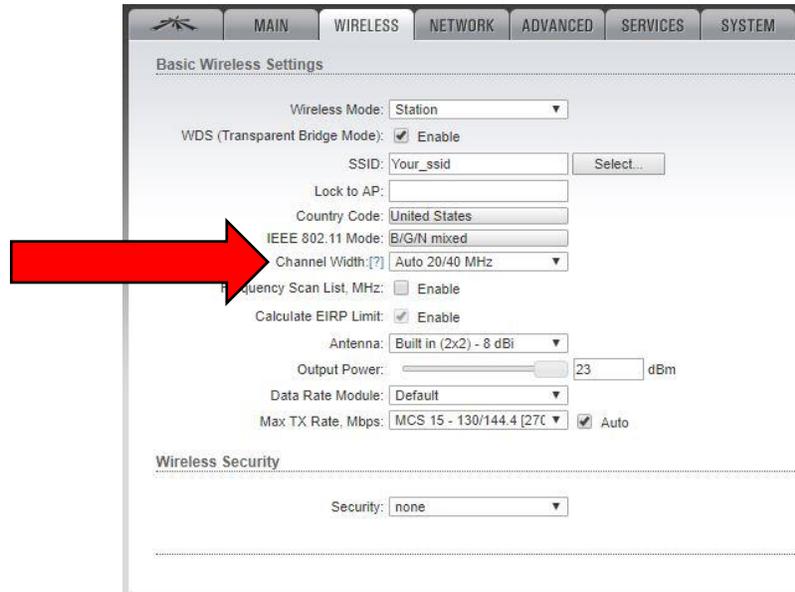


4. Enter your tower's access point (AP) **SSID** in the box labeled "**SSID**", as highlighted in the picture below

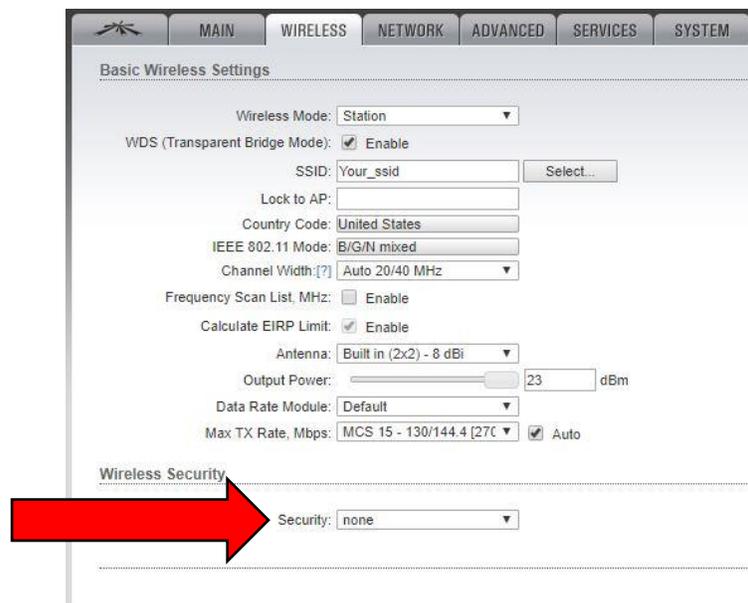




5. Select your **channel width** by clicking the drop-down box beside the label “**Channel Width**” and selecting the corresponding channel with to the Tower’s AP SSID as seen in the below.



6. Select your security either none, **WPA-AES** or **WPA2-AES**. (none used in example)
 - a. If **WPA-AES** or **WPA2-AES** is selected, then enter the **WPA passphrase** that corresponds with the SSID





7. You can run the CPE in “**Bridge**” (DEFAULT) or “**Router**” mode, regardless the LAN network on the CPE must be static **192.168.1.20** as seen in the sample configuration below. The example configuration provided by WISPr Systems is in bridge mode.

The screenshot displays the configuration interface for WISPr Systems. The top navigation bar includes tabs for MAIN, WIRELESS, NETWORK, ADVANCED, SERVICES, and SYSTEM. The 'NETWORK' tab is selected. The interface is divided into three main sections:

- Network Role:** A red arrow points to the 'Network Mode' dropdown menu, which is set to 'Bridge'. Below it, the 'Disable Network' dropdown is set to 'None'.
- Configuration Mode:** The 'Configuration Mode' dropdown is set to 'Simple'.
- Management Network Settings:** This section includes:
 - Management IP Address: Radio buttons for DHCP and Static (Static is selected).
 - IP Address: Text field containing '192.168.1.20'.
 - Netmask: Text field containing '255.255.255.0'.
 - Gateway IP: Text field containing '192.168.1.1'.
 - Primary DNS IP: Empty text field.
 - Secondary DNS IP: Empty text field.
 - MTU: Text field containing '1500'.
 - Management VLAN: Checkbox for 'Enable' (unchecked).
 - Auto IP Aliasing: Checkbox for 'Enable' (checked).
 - STP: Checkbox for 'Enable' (unchecked).

8. If the CPE is put in “**Router**” mode, the LAN must remain at a static **192.168.1.20**.
9. Save all setting and your antenna is ready to begin survey with the WISPr OS and drone.