



## pingStation 3

# User and Installation Guide



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# 1 Revision History

| Revision | Date      | Comments  |
|----------|-----------|---|
| A        | 11/1/2021 | Initial release   |
| B        | 6/17/2022 | Screen layout update, DHCP fallback and information broadcast                 |
| C        | 3/29/2023 | Specify recommended browsers  |
| D        | 2/12/2025 | Single size worm clamps   |
| E        | 6/17/2025 | Updated to standard uAvionix format and revised device images to clear color. |
| F        | 8/19/2025 | Added section 8 "What's in the box?" Added list of figures, list of tables.   |
| G        | 3/23/2026 | Added uAvionix ATAK plugin configuration.                                     |

## **2 Warnings / Disclaimers**

All device operational procedures must be understood prior to operation. uAvionix is not liable for damages arising from the use or misuse of this product.

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Restrictions: This warranty does not apply to cosmetic damage, consumable parts, damage caused by accident, abuse, misuse, water, fire or flood, damage caused by unauthorized servicing, or product that has been modified or altered.

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Please email or call uAvionix Customer Support with a description of the problem you are experiencing. Please provide the model, serial number, shipping address, and a daytime contact number.

You will be promptly contacted with further troubleshooting steps or return instructions; it is recommended to use a shipping method with tracking and insurance. Directly contact customer support by visiting:

[support@uavionix.com](mailto:support@uavionix.com)

# 4 Table of Contents

|           |   |           |
|-----------|---|-----------|
| <b>1</b>  | <b>REVISION HISTORY</b> .....                                 | <b>3</b>  |
| <b>2</b>  | <b>WARNINGS / DISCLAIMERS</b> .....                           | <b>4</b>  |
| <b>3</b>  | <b>LIMITED WARRANTY</b> .....                                 | <b>5</b>  |
| <b>4</b>  | <b>TABLE OF CONTENTS</b> .....                                | <b>6</b>  |
| <b>5</b>  | <b>LIST OF FIGURES</b> .....                                  | <b>7</b>  |
| <b>6</b>  | <b>LIST OF TABLES</b> .....                                   | <b>7</b>  |
| <b>7</b>  | <b>INTRODUCTION</b> .....                                     | <b>8</b>  |
| <b>8</b>  | <b>WHAT'S IN THE BOX?</b> .....                               | <b>10</b> |
| <b>9</b>  | <b>INSTALLATION</b> .....                                     | <b>11</b> |
| 9.1       | MECHANICAL MOUNTING RECOMMENDATIONS.....                      | 11        |
| 9.2       | CONNECTION TO THE POE NETWORK .....                           | 13        |
| <b>10</b> | <b>CONFIGURATION</b> .....                                    | <b>14</b> |
| 10.1      | POE INSTALLATION.....   | 14        |
| 10.2      | CONFIGURATION URL.....  | 15        |
| 10.3      | CONNECT .....   | 16        |
| 10.3.1    | <i>Configuration Items</i> .....                              | 18        |
| 10.3.2    | <i>Health Statistics</i> .....                                | 21        |
| <b>11</b> | <b>RECOVERY METHODS</b> .....                                 | <b>22</b> |
| 11.1      | DHCP FALLBACK.....  | 22        |
| 11.2      | POWER ON INFORMATION BROADCAST .....                          | 23        |
| <b>12</b> | <b>UPDATE</b> .....   | <b>24</b> |
| 12.1      | UPDATE THE PINGSTATION 3 SYSTEM SOFTWARE .....                | 24        |
| 12.2      | UPDATE ADS-B RECEIVER SOFTWARE .....                          | 27        |
| <b>13</b> | <b>APPLICATION SPECIFIC CONFIGURATIONS</b> .....              | <b>29</b> |
| 13.1      | ANDROID TEAM AWARENESS KIT (ATAK) CONFIGURATION .....         | 29        |
| 13.1.1    | <i>pingStation 3 Configuration</i> .....                      | 29        |
| 13.1.2    | <i>ATAK Configuration</i> .....                               | 30        |
| 13.2      | VIRTUAL RADAR SERVER RECEIVER.....                            | 31        |
| 13.2.1    | <i>Configure pingStation 3</i> .....                          | 31        |
| 13.2.2    | <i>Configure Virtual Radar Server</i> .....                   | 33        |
| 13.2.3    | <i>Configure Virtual Radar Moving Map Home Location</i> ..... | 36        |
| <b>14</b> | <b>SUPPORT</b> .....  | <b>39</b> |

## 5 List of Figures

|  |    |
|--|----|
| FIGURE 1: PINGSTATION 3 MECHANICAL DRAWING .....                               | 9  |
| FIGURE 2: INSTALLATION VIEWS FROM BELOW (LEFT) AND ABOVE (RIGHT).....          | 11 |
| FIGURE 3: M12 TO RJ45 WIRING DIAGRAM.....                                      | 13 |
| FIGURE 4: PINGSTATION POWERED BY POE SWITCH .....                              | 14 |
| FIGURE 5: PINGSTATION POWERED BY POE INJECTOR.....                             | 14 |
| FIGURE 6: EXAMPLE CONFIGURATION SCREEN .....                                   | 17 |
| FIGURE 7: CONFIGURATION PAGE: DHCP FALLBACK FOR STATIC IP RECOVERY .....       | 23 |
| FIGURE 8: EXAMPLE UPDATE ENTRY SCREEN .....                                    | 25 |
| FIGURE 9: EXAMPLE UAV FILE UPDATE SELECTION SCREEN.....                        | 25 |
| FIGURE 10: EXAMPLE RESTART SCREEN.....   | 26 |
| FIGURE 11: ADS-B RECEIVER SOFTWARE VERSION .....                               | 27 |
| FIGURE 12: ADS-B RECEIVER FILE SELECTION .....                                 | 27 |
| FIGURE 13: UPDATE PROGRESS BAR .....   | 28 |
| FIGURE 14: CHECK UPDATED ADS-B VERSION .....                                   | 28 |
| FIGURE 15: CONFIGURING PINGSTATION 3 .....                                     | 32 |
| FIGURE 16: VIRTUAL RADAR SERVER: SELECTING RECEIVER.....                       | 33 |
| FIGURE 17: VIRTUAL RADAR SERVER: ENTERING NAME.....                            | 33 |
| FIGURE 18: VIRTUAL RADAR SERVER: ADDING SERVER.....                            | 33 |
| FIGURE 19: VIRTUAL RADAR SERVER: CONFIGURATION.....                            | 34 |
| FIGURE 20: VIRTUAL RADAR SERVER: SUCCESSFUL AND CONNECTED .....                | 35 |
| FIGURE 21: VIRTUAL RADAR SERVER: CLICKABLE HYPERLINK TO VIEW AIRCRAFT MAP..... | 36 |
| FIGURE 22: VIRTUAL RADAR SERVER: AIRCRAFT MAP.....                             | 36 |
| FIGURE 23: CONFIGURATION OF VIRTUAL RADAR MOVING MAP HOME LOCATION.....        | 37 |
| FIGURE 24: VIRTUAL RADAR SERVER: AIRCRAFT MAP – LOCATION ICON.....             | 38 |

## 6 List of Tables

|                                     |    |
|-------------------------------------|----|
| TABLE 1: POE SPECIFICATIONS .....   | 13 |
| TABLE 2: INFORMATION BROADCAST..... | 24 |

## 7 Introduction

pingStation 3 is a dual band (978MHz and 1090MHz), networkable ADS-B receiver with a Power-Over-Ethernet (POE) interface enclosed in an IP67 rated protective enclosure. pingStation 3 provides ground surface or low-altitude ADS-B surveillance within line of sight of the antenna, with range dependent upon the output power of the transmitting ADS-B transceiver. pingStation 3 is robust enough to be permanently mounted outdoors in harsh environmental conditions, and small enough to be used as a mobile asset for roaming operations. Installation is simple with included pole-mount bracket, and a single POE cable which provides both power and data communications. Configuration is accomplished via a simple web interface. An integrated GPS provides precision timestamping for messaging.

Multiple pingStation 3's may be networked together to provide a wide area low-altitude surveillance volume. Data messages are available in multiple formats as described within the pingStation 3 ICD (UAV-1005951-001).

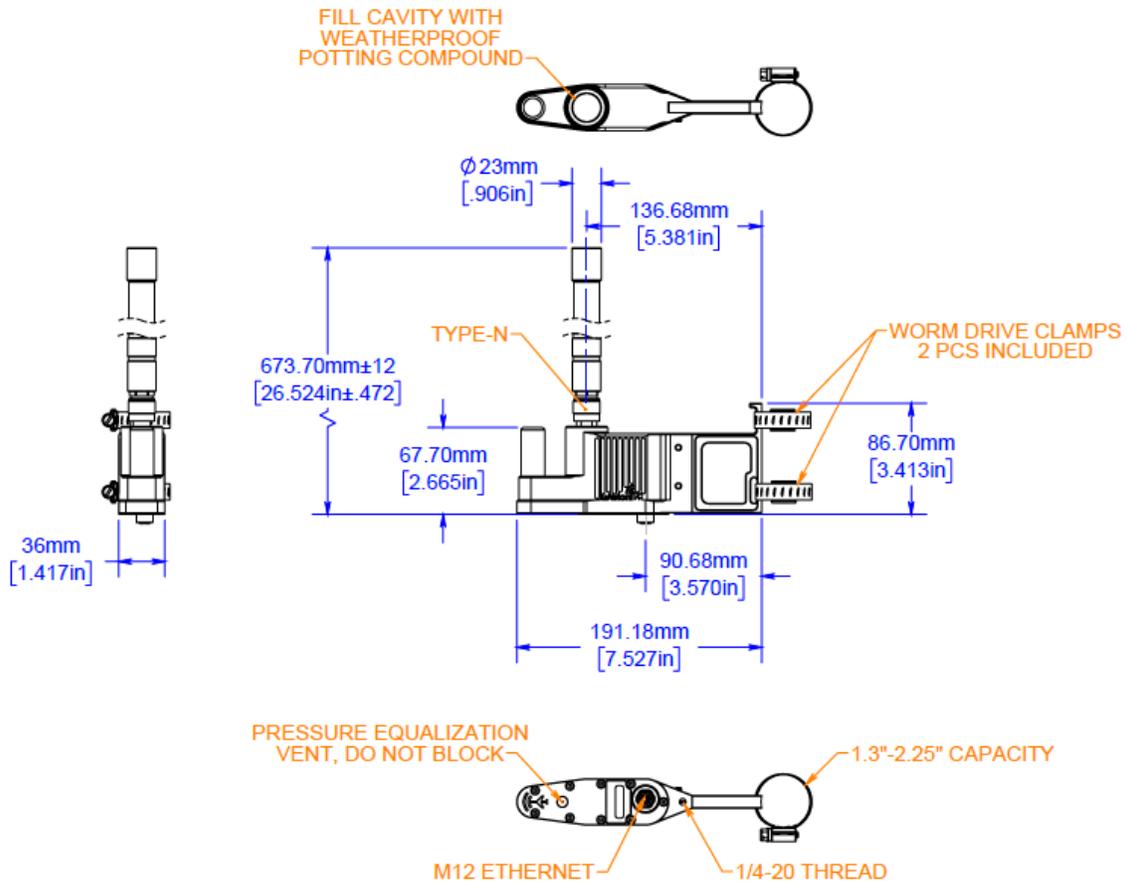


Figure 1: pingStation 3 mechanical drawing

## 8 What's in the box?

| Item | Description  | Qty | Part Number     |
|------|--|-----|-----------------|
| 1    | Fiberglass Mast Antenna, 1090Mhz 6dbi, Male Type N Connector, Grey | 1   | UAV-1005874-001 |
| 2    | Mounting Arm, Strap, SS2, PS3                                      | 1   | UAV-1005552-001 |
| 3    | Shoulder Screw, Slotted, M5 x .8, 8mm Shoulder                     | 2   | UAV-1005620-004 |
| 4    | Hose Clamp, 1-5/16"- 2-1/4"  | 2   | UAV-1005632-001 |
| 5    | Get started card   | 1   | UAV-1005282-018 |
| 6    | M12 ETHERNET CABLE, IP67, M12 X-CODED, RJ45, CAT5, Black           | 1   | UAV-1005899-002 |

## 9 Installation

### 9.1 Mechanical Mounting Recommendations

pingStation 3 is supplied with an installation bracket and hose clamps to mount to poles of various sizes.

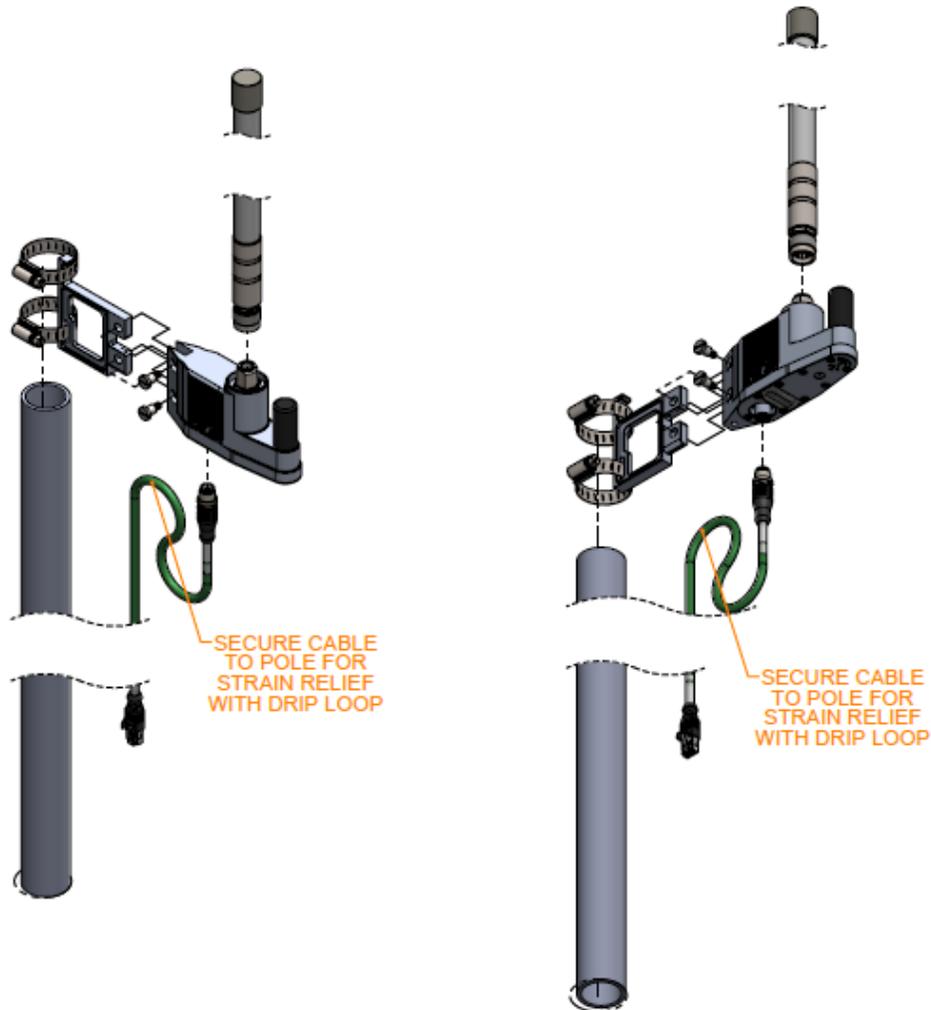


Figure 2: Installation views from below (left) and above (right)

Seat and tighten the hose clamp mount into the pingStation 3 and secure with provided screws using a screwdriver. Tighten hose clamps to secure pingStation 3 to the mounting pole.

Connect the pingStation 3 with the M12 connector using Cat5e or better ethernet cable. It is recommended to use shielded Cat5e cable to protect against EMI interference depending on your installation location.

Seat M12 plug into the pingStation 3 M12 receptacle then install and tighten the connector as shown. M12 X Code cables can be sourced to accommodate longer installation runs. Alternatively, a shielded, waterproof coupler can be installed to extend a cable run to the POE switch/injector location.

Mount pingStation 3 as high on the pole as possible, preferably at the top with an unobstructed 360° view of the sky.

Secure the ethernet cable to the pingStation 3 mounting arm or to the pole using a zip tie in a drip loop configuration for strain relief.

## 9.2 Connection to the POE network

The pingStation 3 connects to a network via POE using an M12 X-Coded connector. For POE specifications refer to Table 1.

Table 1: POE Specifications

| Parameter                | Value                              |
|--------------------------|------------------------------------|
| Standard                 | 802.3af (802.3at Type1)            |
| Maximum power            | 15.4W                              |
| Voltage Range            | 37 – 57V                           |
| Maximum Current          | 350mA                              |
| Maximum Cable Resistance | 20Ω                                |
| Supported Cabling        | Shielded Cat 3 and Shielded Cat 5  |
| Supported Modes          | Mode A (endspan), Mode B (midspan) |
| Power Management         | Power Class 0                      |
| Maximum Cable Length     | 100 meters                         |

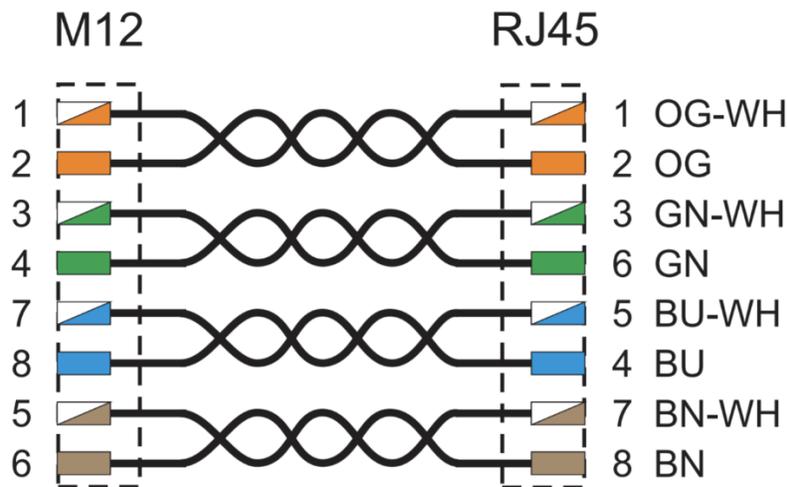


Figure 3: M12 to RJ45 wiring diagram

### Caution!



Absolute maximum DC voltage +57 V. A higher DC voltage value will permanently damage the equipment!

# 10 Configuration

## 10.1 POE Installation

pingStation 3 must be powered via POE. This can be accomplished with a POE capable switch, or with a standalone POE injector.

Connect the shielded POE cable to an active POE switch or a regular switch via a Class 0 POE power injector as shown below.

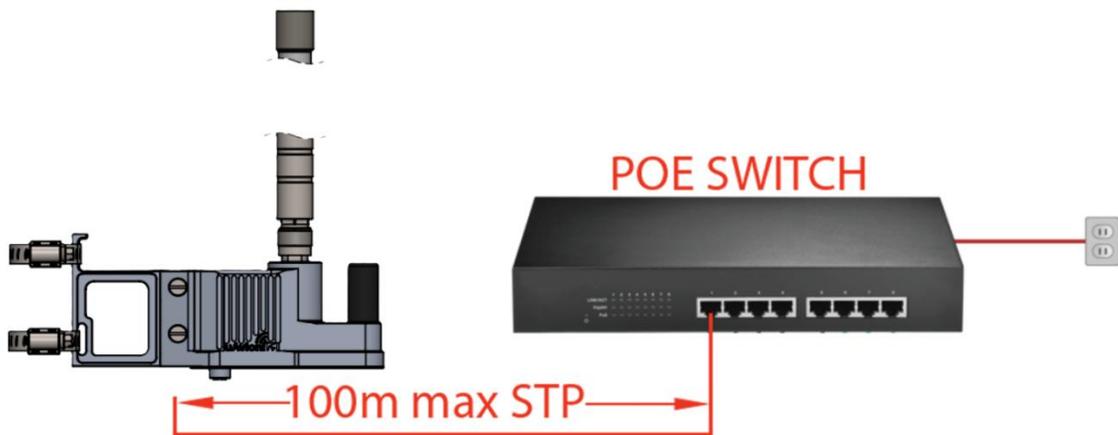


Figure 4: pingStation powered by POE switch

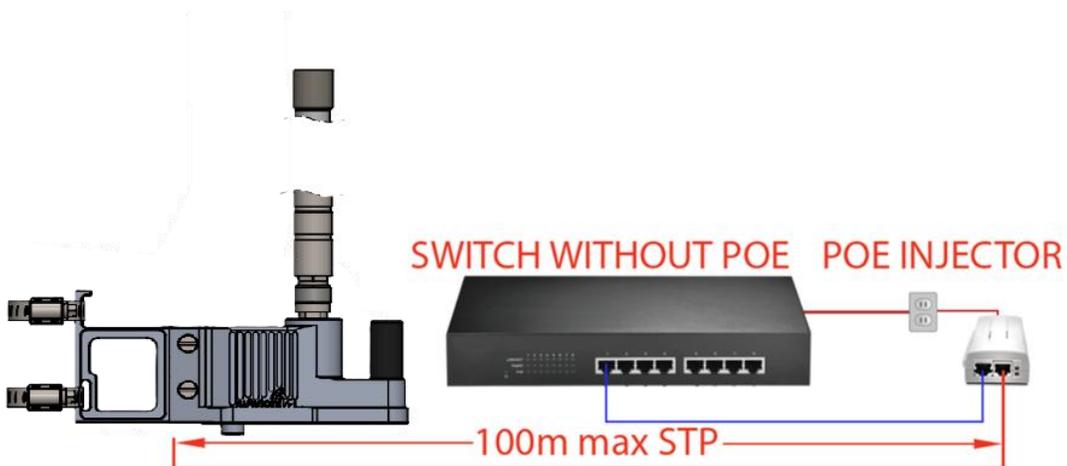


Figure 5: pingStation powered by POE injector

At power-up an IP address will be assigned to the pingStation 3 by the local DHCP server. This IP address is dynamic and assigned by your local network. Determining the assigned IP address is required for configuration. The pingStation 3 IP address can be determined by accessing the local DHCP server and reviewing the connected devices or by using industry accepted network scanning tools.

Directions for each DHCP server, router, or network scanning tool differ. Refer to the instruction manual for these devices or tools to help determine the IP address assigned to the pingStation 3. The MAC address for each pingStation 3 can be found on the housing device.

**Optional:** You may wish to configure your DHCP server to reserve an IP address for pingStation 3 to ensure its address does not change in the future. Refer to your router or DHCP server instructions for how to reserve IP addresses.

## 10.2 Configuration URL

pingStation 3 settings can be observed and changed by navigating via web browser from a PC or mobile device which is on the same Local Area Network (LAN) as the powered pingStation 3. The IP address assigned by the DHCP server serves as the base URL.

pingStation 3 base URL:

`http://###.###.###.###/`

Note “###.###.###.###” is the IP address of the device

Displays Health statistics, position and version information. Use to program the target UDP address and Port number.

pingStation 3 status URL:

`http://###.###.###.###/api/v1/status`

Displays the status json sentence/

pingStation 3 traffic URL:

`http://###.###.###.###/api/v1/traffic`

Displays the current traffic json sentences.

pingStation 3 update URL:

`http://###.###.###.###/update`

Provides ability to update firmware.

## **10.3 Connect**

**NOTE:** Any IP addresses shown in this document are examples only and are not applicable to your pingStation 3 IP address.

The base URL displays configuration items as well as dynamic pingStation 3 statistics.



## Configuration

UDP Output Format:

- UDP JSON
- UDP JSON (Status Only)
- UDP ASTERIX CAT021
- UDP Disabled

UDP Target IP Address or Hostname:

UDP Target Port:

TCP Output Format:

- TCP Compressed VR
- TCP ASTERIX CAT021
- TCP Disabled

TCP Push IP Address or Hostname:

TCP Port:

pingStation3 Network Address:

Preferred Static IP Address:

 (0.0.0.0 for DHCP)

Subnet Mask:

Gateway IP Address:

DNS Address:

Advanced Recovery Options:

- Use DHCP Fallback For Static IP Recovery

Data Filters:

Altitude Ceiling In Feet:

 (0 = No Filter)

Max Radius In Miles:

 (0 = No Filter)

Station Info Interval In Seconds:

ASTERIX CAT021 Data Source ID Settings:

System Area Code:

System Identification Code:

## Health

UAT Basic: 0  
UAT Long: 11743  
1090 DF17: 11918  
1090 DF18: 52911  
Current Aircraft: 15  
GPS Fix Type: 3  
GPS Satellites: 11

Latitude: 42.010143 Longitude: -91.658119  
Receiver BPS: 921600 GPS BPS: 115200  
Version: 1.0.11  
ADS-B Version: 2.4.50 [Update](#)

[About / Copyrights](#)

Figure 6: Example configuration screen

### 10.3.1 Configuration Items

| Configuration Category               | Configuration Item                | Description  |
|--------------------------------------|-----------------------------------|--|
| <b>UDP Output Format</b>             |                                   | The supported UDP delivery format. Only one option can be selected.  |
|                                      | UDP JSON                          | Aircraft data will be JSON formatted and pushed out a UDP pipe to the UDP target address on the UDP target port.   |
|                                      | UDP ASTERIX CAT021                | Aircraft data will be ASTERIX CAT021 formatted and pushed out a UDP pipe to the UDP target address on the UDP target port.   |
|                                      | UDP Disabled                      | Disables UDP aircraft data output.   |
|                                      | UDP Target IP Address or Hostname | The IP address or hostname of the UDP listener on the server.  |
|                                      | UDP Target Port                   | The port number the UDP listener is listening on.  |
| <b>TCP Output Format</b>             |                                   | The supported TCP delivery format. One option can be selected.   |
|                                      | TCP Compressed VR                 | Aircraft data will be Compressed VRS formatted and delivered to a TCP for use with Virtual Radar Server.   |
|                                      | TCP ASTERIX CAT021                | Aircraft data will be ASTERIX CAT021 formatted and delivered to the TCP target address on the TCP target port.   |
|                                      | TCP Disabled                      | Disables TCP aircraft data output.   |
|                                      | TCP Push IP Address or Hostname   | The IP address or hostname that we will be sending TCP data to   |
|                                      | TCP Port                          | <p>If TCP Push IP Address or Hostname is valid this will be the port that we will connect to deliver the compressed VRS tracking data to the push receiver on the other end of the connection.</p> <p>If TCP Push IP Address or Hostname is not valid, this is the port that the TCP server will listen for incoming connections on to deliver the compressed VRS tracking data.</p> |
| <b>pingStation 3 Network Address</b> |                                   | IP networking options for pingStation 3. Default is DHCP, static IP optional. <b>Warning:</b> Only use static IP if necessary, it is possible to lock access out of pingStation 3 if configured incorrectly.   |

| <b>Configuration Category</b>                 | <b>Configuration Item</b>                | <b>Description</b>  |
|---|--|---|
|   | Preferred Static IP Address              | Fixed IP address number of the device which will not change. The network administrator assigns this number. Set this field to 0.0.0.0 to enable DHCP (Default). Updating this field causes a system reset.          |
|   | Subnet Mask                              | Mask used to the IP address into network and host address. Updating this field causes a system reset.   |
|   | Gateway IP Address                       | Addresses are used to send packets out of the local network. Updating this field causes a system reset.   |
|   | DNS Address                              | This is the IP address of the Domain Name Service. Updating this field causes a system reset.   |
| <b>Advanced Recovery Options</b>              |  | The system will always enter DHCP client mode at power up. If a DHCP server is present on the network, it will override the Preferred Static IP address.  |
|   | Use DHCP Fallback for Static IP Recovery | This checkbox enables or disables the DHCP Fallback functionality for recovering units with bad or forgotten static IP addresses.   |
| <b>Data Filters</b>                           |  | Options to reduce or increase the amount of data transmitted. These are useful on metered connections.  |
|   | Altitude Ceiling in Feet MSL             | Entering a non-zero value will result in a filter which only returns aircraft data below the entered value in feet Mean Sea Level (MSL). Entering zero results in all aircraft data being returned.                 |
|   | Max Radius in Miles                      | Entering a non-zero value will result in a filter which only returns aircraft data within the range from the receiver's GPS position in miles specified. Entering zero results in all aircraft data being returned. |
|   | Station Info Interval In Seconds         | This is the rate that the pingStation 3 information packet is returned. Mobile pingStation 3s will want a lower number in this field for more regular GPS updates. The default is once every 30 seconds.            |
| <b>ASTERIX CAT021 Data Source ID Settings</b> |  | User definable fields for CAT021 format. Not applicable to Compressed VRS or JSON.  |

| Configuration Category | Configuration Item                                    | Description   |
|------------------------|---|---|
|                        | ASTERIX<br>CAT021<br>System Area<br>Code              | Code allotted to the geographical area in which the ADS-B station operates. |
|                        | ASTERIX<br>CAT021<br>System<br>Identification<br>Code | Code allotted to the ADS-B station providing traffic information.           |

**NOTE:** When modifying any configuration item, press the Update button to store the changes. These fields are non-volatile and persist through power cycles.

### 10.3.2 Health Statistics

| <b>Statistic</b> | <b>Description</b>   |
|------------------|--|
| UAT Basic        | The number of UAT basic aircraft messages received.  |
| UAT Long         | The number of UAT long aircraft messages received.   |
| 1090 DF17        | The number of 1090 ADS-B aircraft messages received.   |
| 1090 DF18        | The number of 1090 TIS-B messages received.  |
| Current Aircraft | The number of aircraft currently being tracked. The aircraft are deprecated from the list after 60 seconds since last contact. |
| Current Range    | The range in miles of the last processed aircraft from the pingStation 3.  |
| GPS Fix Type     | The gps fix type as follows:<br>0 = Not present<br>1 = Not locked<br>2 = 2D fix<br>3 = 3D fix<br>4 = Differential GPS fix      |
| GPS Satellites   | The number of satellites the pingStation 3 can currently see.  |
| Latitude         | The latitude of this pingStation 3.  |
| Longitude        | The longitude of this pingStation 3.   |
| Receiver BPS     | The communication speed to the ping receiver.  |
| GPS BPS          | The communication speed to the GPS   |
| Version          | The version of software this pingStation 3 running.  |

# 11 Recovery Methods

When in static IP mode and the user enters a bad network configuration or the user forgets the programmed Static IP Address, we provide 2 methods of recovery.

## 11.1 DHCP Fallback

- The system will always enter DHCP client mode on power up.
- If we have a static IP address configured, it will be loaded as the default into the network interface.
- **If we have a static IP address configured and the unit is on a network with a DHCP server, the DHCP address received from the DHCP server will overwrite the static IP address in the network interface.**
- If we have a static IP address configured, the DHCP requests will stop after 75 seconds. The 75 seconds was chosen because the default port configuration on some switches can take 60+ seconds for the link to come up.
- **If we have a static IP address configured and we have a hybrid network that supports both DHCP and static IP addresses, DHCP will overwrite the static IP address so the network administrator can create a DHCP reservation based on the MAC address for that IP address.**
- **NOTE:** The DHCP Fallback option can be disabled by unchecking the checkbox under “Advanced Recovery Options.”

**Configuration**

UDP Output Format:

- UDP JSON
- UDP JSON (Status Only)
- UDP ASTERIX CAT021
- UDP Disabled

UDP Target IP Address or Hostname:

UDP Target Port:

TCP Output Format:

- TCP Compressed VR
- TCP ASTERIX CAT021
- TCP Disabled

TCP Push IP Address or Hostname:

TCP Port:

pingStation3 Network Address:

Preferred Static IP Address:  (0.0.0.0 for DHCP)

Subnet Mask:

Gateway IP Address:

DNS Address:

Advanced Recovery Options:

Use DHCP Fallback For Static IP Recovery

Data Filters:

Altitude Ceiling In Feet:  (0 = No Filter)

Max Radius In Miles:  (0 = No Filter)

Station Info Interval In Seconds:

ASTERIX CAT021 Data Source ID Settings:

System Area Code:

System Identification Code:

Figure 7: Configuration page: DHCP Fallback for Static IP Recovery

## 11.2 Power on information broadcast

- On power the system will do a UDP broadcast of system information when the static IP address has been set.
- The broadcast will be to 255.255.255.255 port 6667.
- The system will broadcast the system information once every 5 seconds when in static IP mode.
- The information will be broadcast for 120 seconds to allow for link up and monitoring time.
- The information broadcast will be as follows:
  - uAvionix signature
  - MAC address

- IP address
- Subnet address
- Gateway address
- DNS address
- Lat
- Lan
- The format will be binary.

*Table 2: Information Broadcast*

|                         |                  |
|-------------------------|------------------|
| Signature Bytes 0-18    | uAvionixuAvionix |
| MAC Address Bytes 6-11  | 0x04714b107c85   |
| IP Address Bytes 12-16  | 0xA16EA8C0       |
| Subnet Mask Bytes 17-20 | 0xfffff00        |
| Gateway Bytes 21-24     | 0x016EA8C0       |
| Latitude Bytes 25-28    | 0xFB9B1511       |
| Longitude Bytes 29-32   | 0XFA88DCDD       |

## 12 Update

The pingStation 3 supports software upgrades through a web-based flashing system. The user will launch the update webpage, select a firmware binary file and press a button to start the update process. There are two separate firmware files which can be updated through this process, the system software, and the ADS-B receiver software.

### 12.1 Update the pingStation 3 system software

1. The update process is started by launching <http://####.###.###.###/update>. It is recommended that updates are performed from a PC using the Chrome, Firefox or Microsoft Edge web browser.

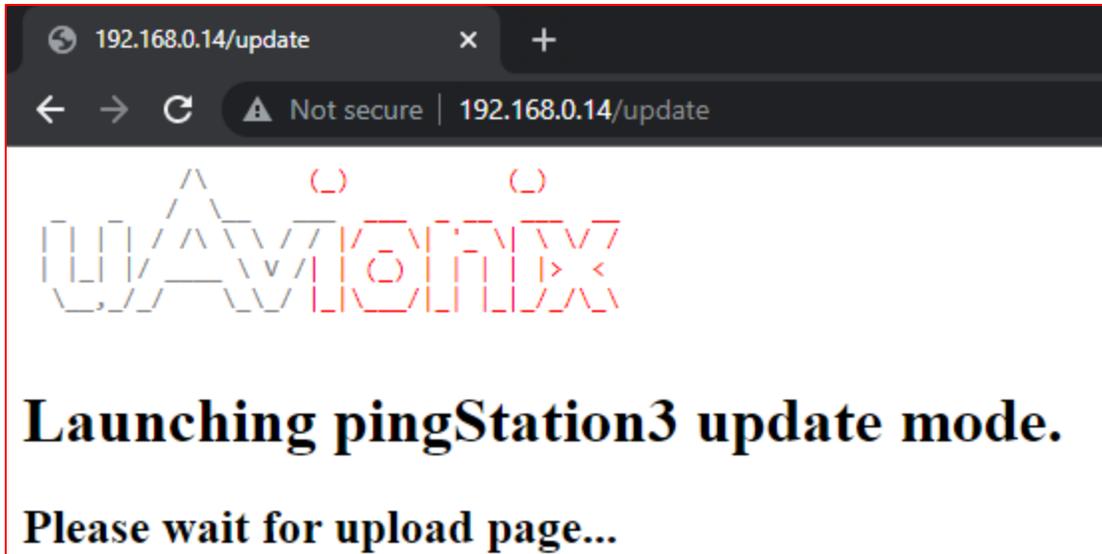


Figure 8: Example update entry screen

2. Choose the file to upload by pressing the “Choose File” button.

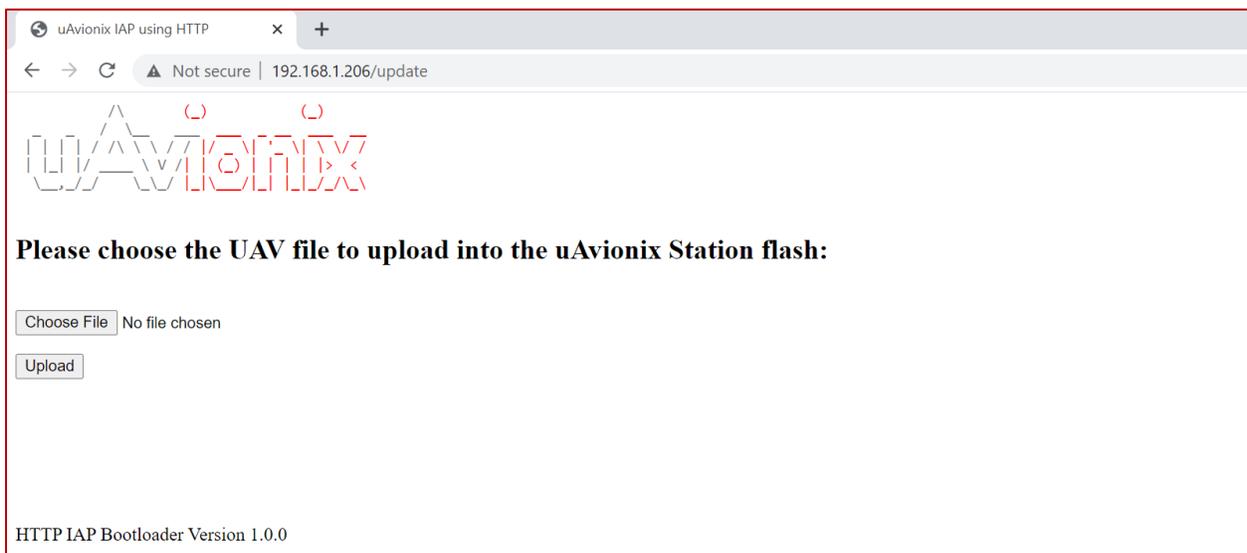


Figure 9: Example UAV file update selection screen

3. Press  to start the upgrade process. There will be an update % status at the bottom of the page.

When the upgrade is complete the pingStation 3 will reset (refer to Figure 10).

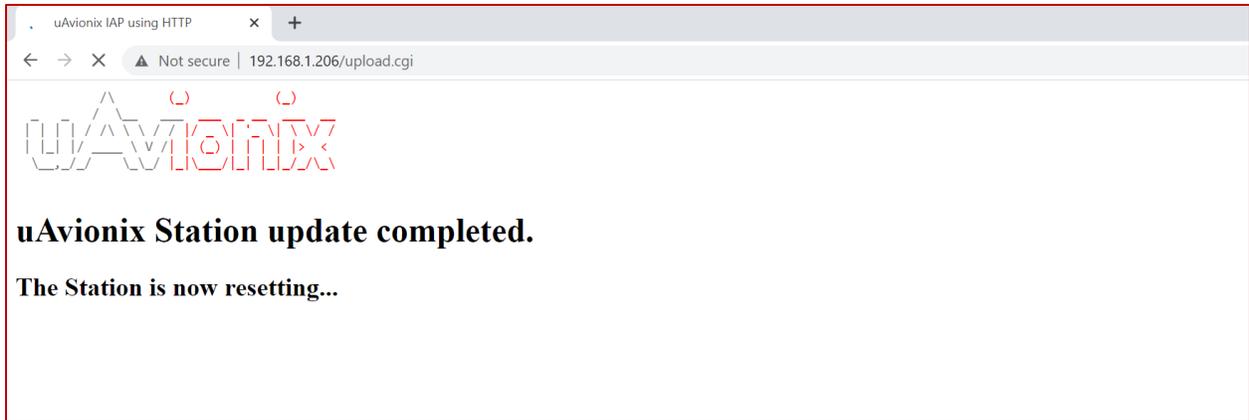


Figure 10: Example restart screen

## 12.2 Update ADS-B receiver software

The pingStation 3 system software supports in field updating of the ADS-B receiver software.

1. From the pingStation 3 configuration page <http://###.###.###.###/> select the “Update” link in line with the ADS-B Version report, or access the updater directly at <http://###.###.###.###/pingUpdate>

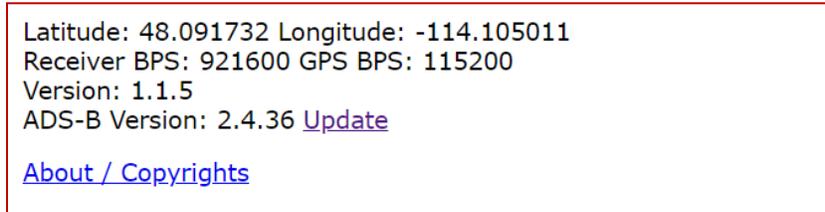


Figure 11: ADS-B receiver software version

2. From the pingUpdate page select “Choose File” and select the latest receiver software. V2.4.43 is shown as an example.



Figure 12: ADS-B receiver file selection

3. Select “Start Update”

The progress bar will cycle during the update. At completion the updater will report the status of the update. The status will report “Update Complete” if successful (refer to Figure 13).

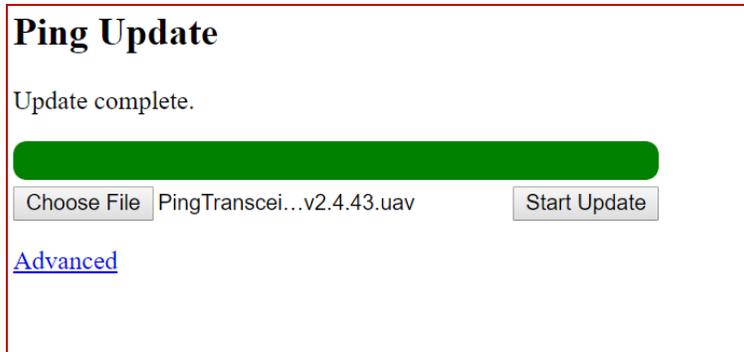


Figure 13: Update progress bar

4. Return to the pingStation 3 configuration page <http://###.###.###.###/> and verify the receiver version matches the version uploaded.

UAT Basic: 0  
UAT Long: 7878  
1090 DF17: 1267  
1090 DF18: 2674  
Current Aircraft: 141  
GPS Fix Type: 3  
GPS Satellites: 12  
  
Latitude: 48.091732 Longitude: -114.105049  
Receiver BPS: 921600 GPS BPS: 115200  
Version: 1.1.5  
ADS-B Version: 2.4.43 [Update](#)  
  
[About / Copyrights](#)

Figure 14: Check updated ADS-B version

## 13 Application Specific Configurations

### 13.1 Android Team Awareness Kit (ATAK) Configuration

The ATAK app, is utilized by military and civilian organizations to display Cursor on Target data. ADS-B IN data can be displayed on the ATAK tablet using the uAvionix ATAK Plugin.



#### 13.1.1 pingStation 3 Configuration

Navigate to the pingStation 3's IP address with a web browser to configure the pingStation 3. The pingStation 3 UDP output should be configured as follows:

- UDP Output Format: ASTERIX CAT021
- IP Address or Hostname: This can be a specific IP or broadcast address.
- UDP Target Port: 4000
- TCP Output Format: TCP Disabled (unused)

The example below, the CAT021 feed is output on the 192.168.1.255 broadcast address for all ATAK tablets on the local network. A specific IP address can be used, if ADS-B IN data is only warranted for a single network user or TAK server.

← → ↻ 🏠 ⚠ Not secure 192.168.1.97

# uAVIONIX

## Configuration

UDP Output Format:

- UDP JSON
- UDP JSON (Status Only)
- UDP ASTERIX CAT021
- UDP Disabled

UDP Target IP Address or Hostname:

UDP Target Port:

TCP Output Format:

- TCP Compressed VR
- TCP ASTERIX CAT021
- TCP Disabled

TCP Push IP Address or Hostname:

TCP Port:

pingStation3 Network Address:

Preferred Static IP Address:  (0.0.0.0 for DHCP)

Subnet Mask:

Gateway IP Address:

DNS Address:

Advanced Recovery Options:

- Use DHCP Fallback For Static IP Recovery

Data Filters:

Altitude Ceiling In Feet:  (0 = No Filter)

Max Radius In Miles:  (0 = No Filter)

Station Info Interval In Seconds:

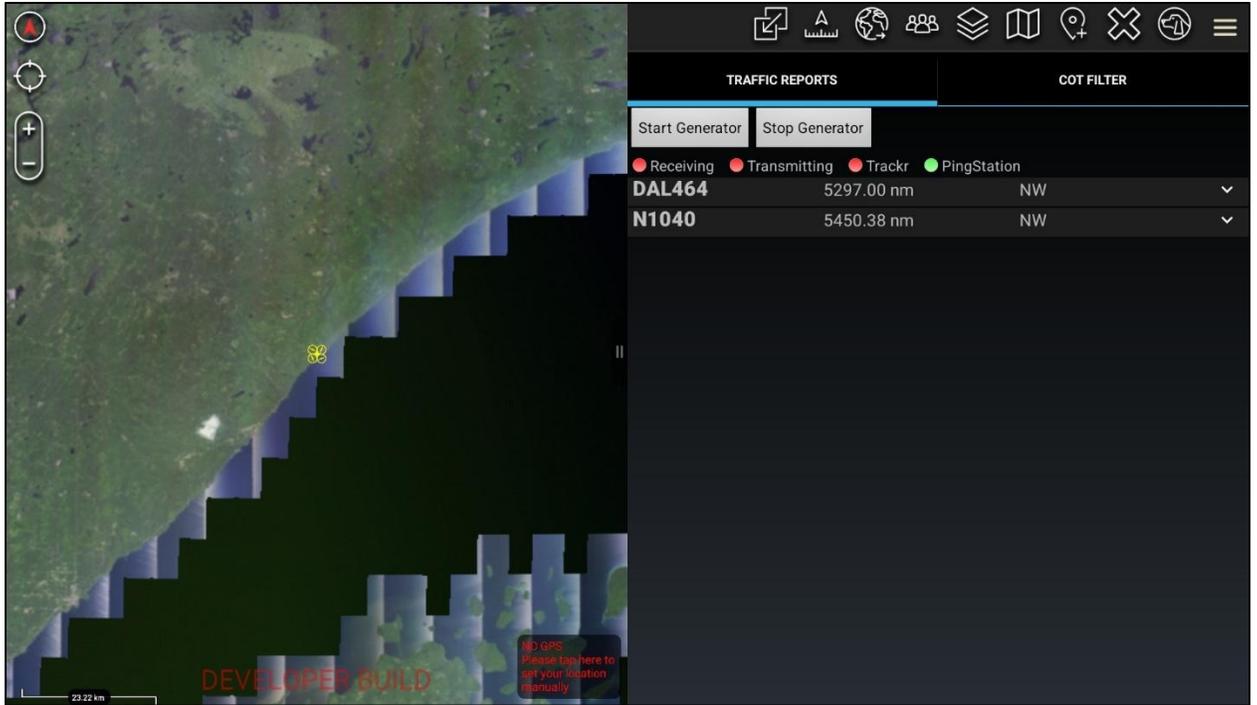
ASTERIX CAT021 Data Source ID Settings:

System Area Code:

System Identification Code:

### 13.1.2 ATAK Configuration

- Download the latest uAvionix ATAK Plugin 2.1.0+ and install on the ATAK tablet.
- Enable the uAvionix ATAK Plugin through ATAK.
- The Red/Green “PingStation” indicator will turn green in the presence of PingStation 3 ADS-B data.



## 13.2 Virtual Radar Server Receiver

One option for displaying traffic received by pingStation 3 is through the use of open-source Virtual Radar Server (VRS) software. VRS is not a uAvionix product.

This is an example of creating a Virtual Radar Server receiver that will render the Compressed VRS data from the pingStation 3 on a local LAN VRS installation.

### 13.2.1 Configure pingStation 3

1. Open the pingStation 3 setup screen by visiting the pingStation 3 IP address using a web browser.
2. Enable the TCP Compressed VR output
3. Enter an IP Address or hostname i.e. 192.168.0.200 or vrs.uavionix.com.
4. Enter the **assigned** TCP port i.e. 30003.

**NOTE:** To display traffic on vrs.uavionix.com, please contact uAvionix support to obtain an assigned TCP port.

5. Click Update.



## Configuration

### UDP Output Format:

- UDP JSON
- UDP ASTERIX CAT021
- UDP Disabled

UDP Target IP Address or Hostname:

UDP Target Port:

### TCP Output Format:

- TCP Compressed VR
- TCP ASTERIX CAT021
- TCP Disabled

TCP Push IP Address or Hostname:

TCP Port:

### pingStation3 Network Address:

Static IP Address:  (0.0.0.0 for DHCP)

Subnet Mask:

Gateway IP Address:

DNS Address:

### Data Filters:

Altitude Ceiling In Feet:  (0 = No Filter)

Max Radius In Miles:  (0 = No Filter)

Station Info Interval In Seconds:

### ASTERIX CAT021 Data Source ID Settings:

System Area Code:

System Identification Code:

Figure 15: Configuring pingStation 3

### 13.2.2 Configure Virtual Radar Server

Download and install Virtual Radar Server from:

<http://www.virtualradarserver.co.uk/>

1. Open Virtual Radar Server
2. Select Tools > Options
3. Select Receiver Locations
4. Click the + (plus sign)

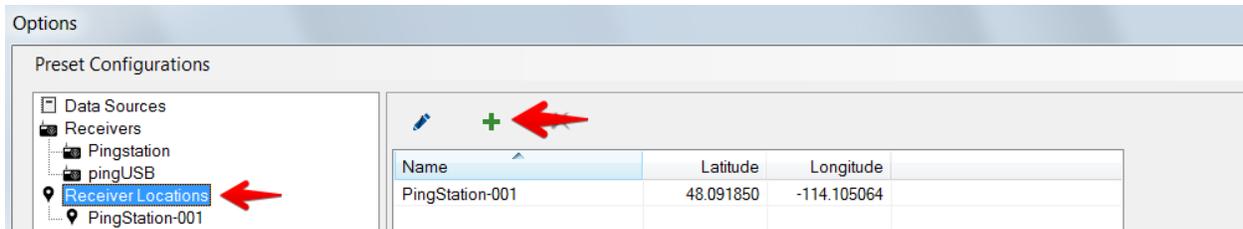


Figure 16: Virtual Radar Server: Selecting Receiver

6. Enter a name for the receiver
7. Enter the latitude and longitude
8. Click OK

**NOTE:** Receiver latitude and longitude are available from the pingStation 3 webpage

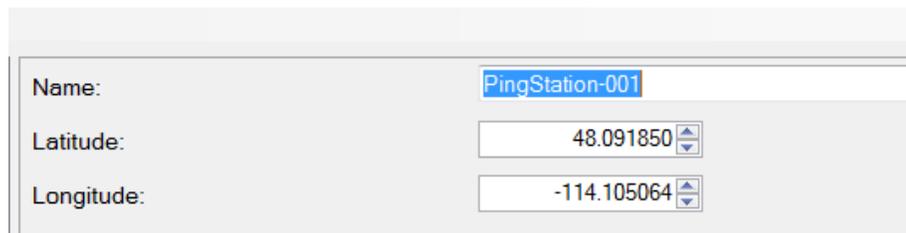


Figure 17: Virtual Radar Server: Entering Name

9. Select *Receivers* and click the + (plus sign).

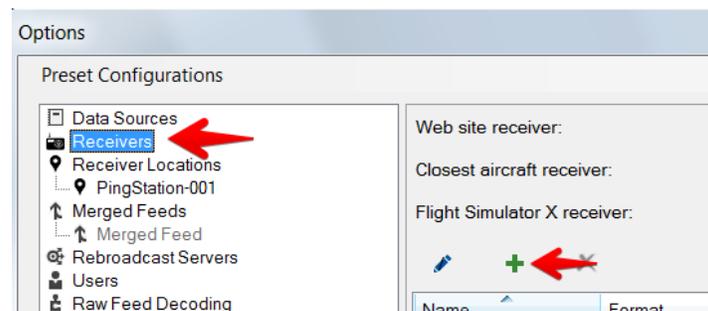


Figure 18: Virtual Radar Server: Adding Server

10. Configure a receiver as shown below:

The screenshot shows the configuration interface for a receiver in the Virtual Radar Server. The 'Enabled' checkbox is checked. The 'Name' field is 'Pingstation'. The 'Format' dropdown is 'Compressed VRS'. The 'Location' dropdown is '300 Pine Needle'. The 'Connection type' dropdown is 'Network'. Under the 'Network' section, the 'Push receiver' checkbox is unchecked, the 'Address' field is '10.0.1.108', the 'Port' spinner is '30003', and the 'Send keep-alive packets' checkbox is checked. A 'Test Connection' button is present. A 'Wizard' button is in the top right corner.

Figure 19: Virtual Radar Server: Configuration

- Enable: Select *Enabled*
- Name: Enter a name for the receiver
- Format: *Compressed VRS*
- Location: Choose the receiver location from the dropdown
  
- Connection Type: Network
  
- Push Receiver: Use to have the pingStation 3 create the TCP connect  
Or
  
- Address: Enter pingStation 3 IP address to TCP connect
  
- Port: Enter the same TCP port as pingStation 3 setup
- Send Keep-alive: Select *Enabled*
- Click OK

11. After setup verify that the Virtual Radar Server shows a Connected status and that the message counter is increasing.

**NOTE:** You may be required to have traffic before the state will change to *Connected*.

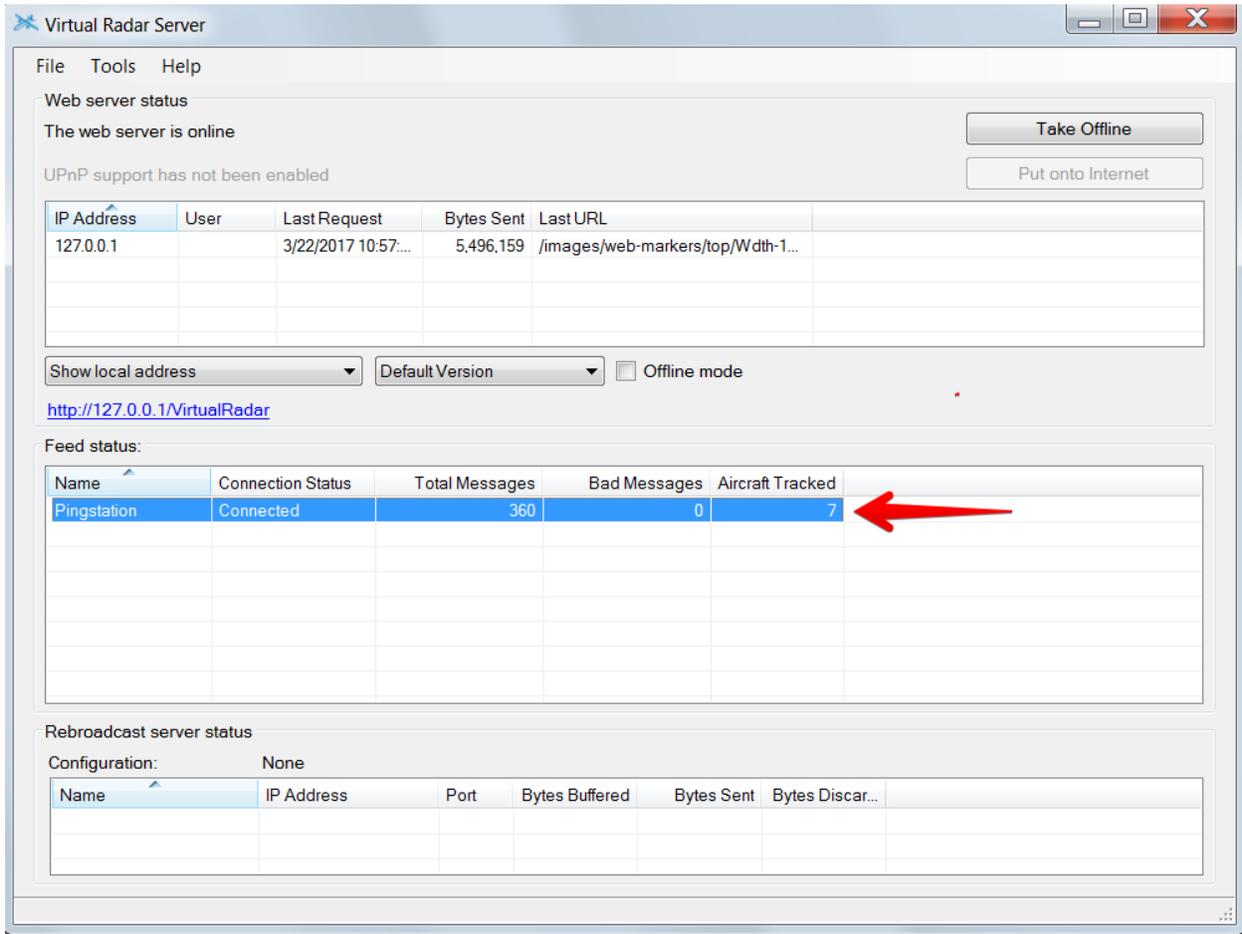


Figure 20: Virtual Radar Server: Successful and Connected

### 13.2.3 Configure Virtual Radar Moving Map Home Location

1. To view the aircraft on a moving map, open a browser to your Virtual Radar installation. The default address is: <http://127.0.0.1/VirtualRadar>

A clickable hyperlink to the page is located on the Virtual Radar Server window.

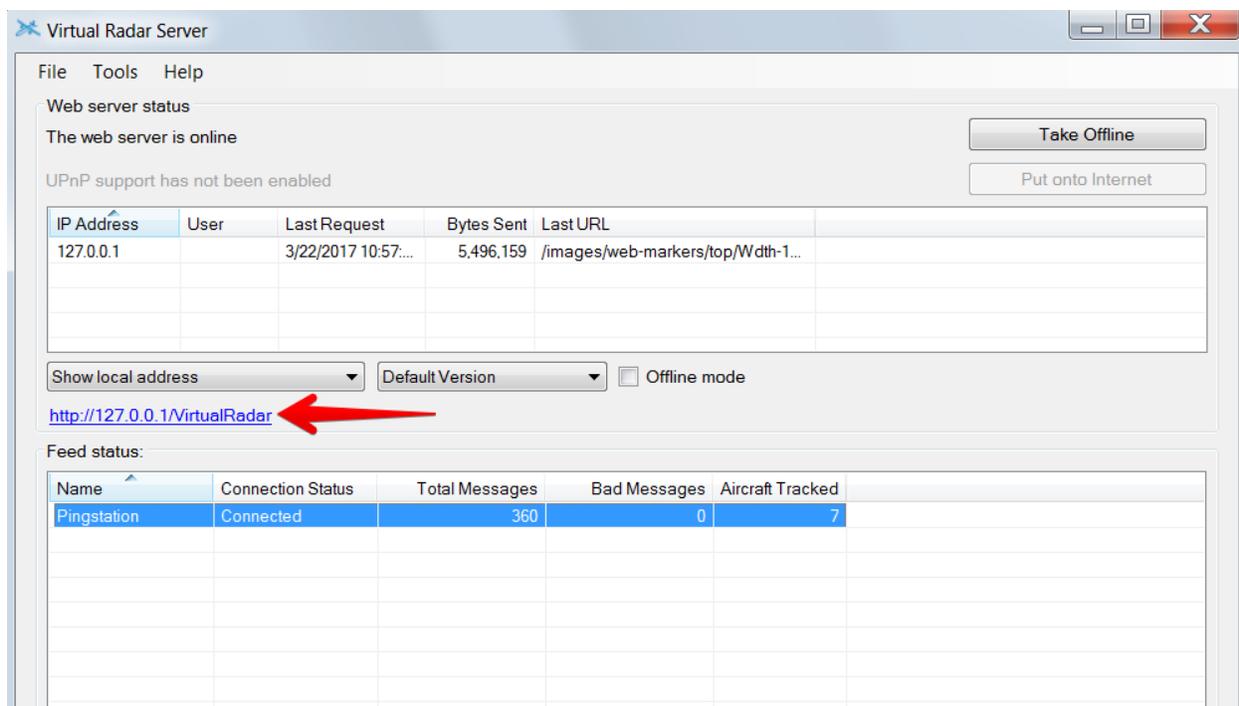


Figure 21: Virtual Radar Server: Clickable Hyperlink to view Aircraft Map

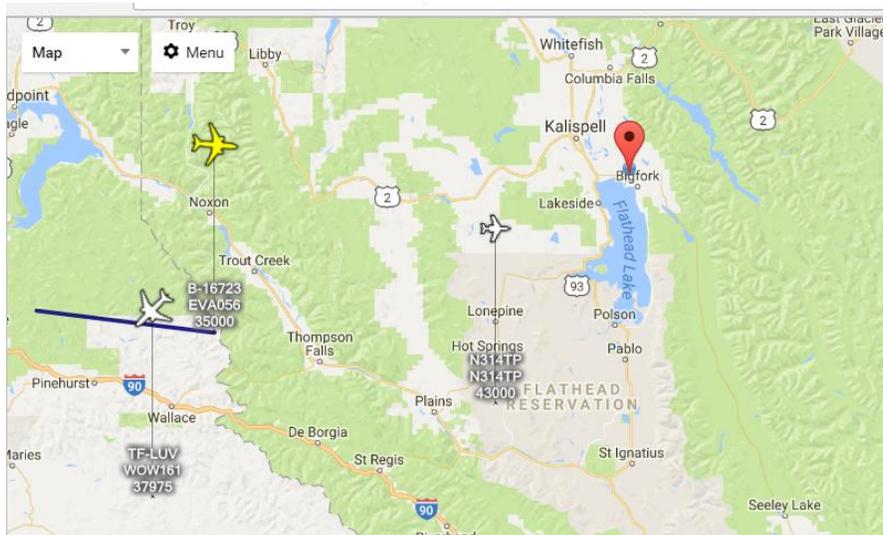
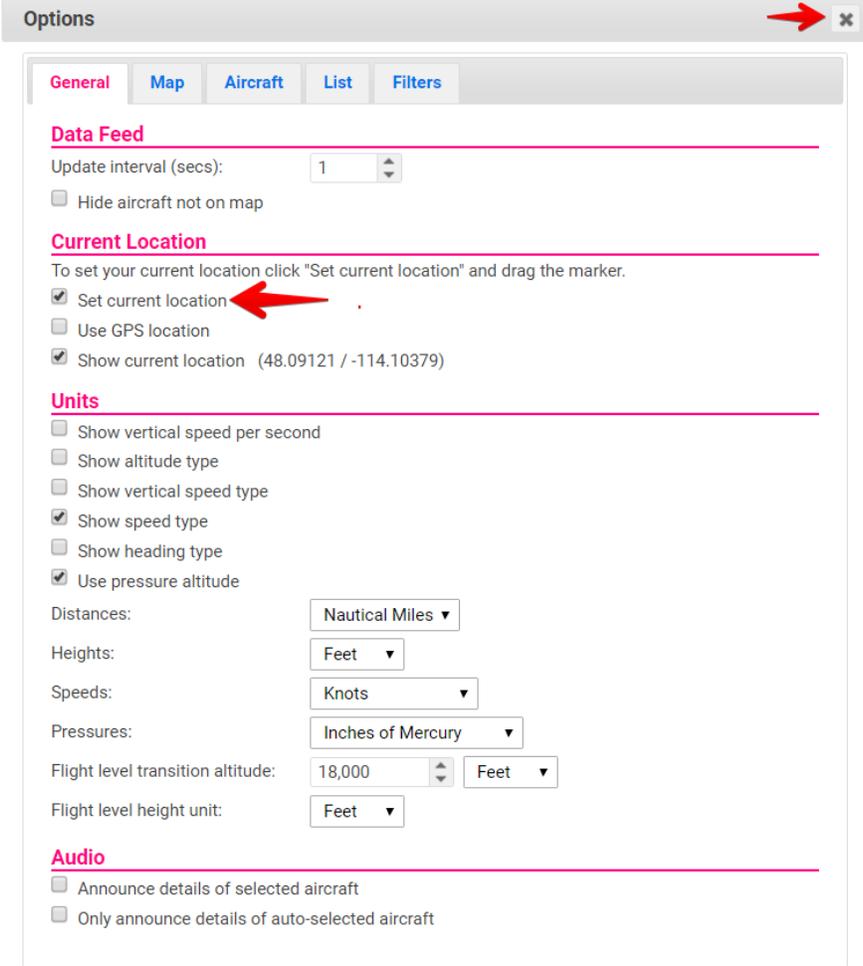


Figure 22: Virtual Radar Server: Aircraft Map

2. From the Virtual Radar webpage click *Menu > Options*
3. Select the *General* tab
4. Select *Set Current Location*
5. Click the *X (close)*



The screenshot shows the 'Options' dialog box with the 'General' tab selected. The 'Data Feed' section has an 'Update interval (secs)' of 1 and a 'Hide aircraft not on map' checkbox. The 'Current Location' section has a 'Set current location' checkbox checked and highlighted with a red arrow, a 'Use GPS location' checkbox, and a 'Show current location' checkbox checked with coordinates (48.09121 / -114.10379). The 'Units' section has several checkboxes for displaying speed and altitude information, and dropdown menus for 'Distances' (Nautical Miles), 'Heights' (Feet), 'Speeds' (Knots), 'Pressures' (Inches of Mercury), 'Flight level transition altitude' (18,000 Feet), and 'Flight level height unit' (Feet). The 'Audio' section has two checkboxes for announcing aircraft details.

Figure 23: Configuration of Virtual Radar Moving Map Home Location

6. Click and drag the red location icon to your location on the map.

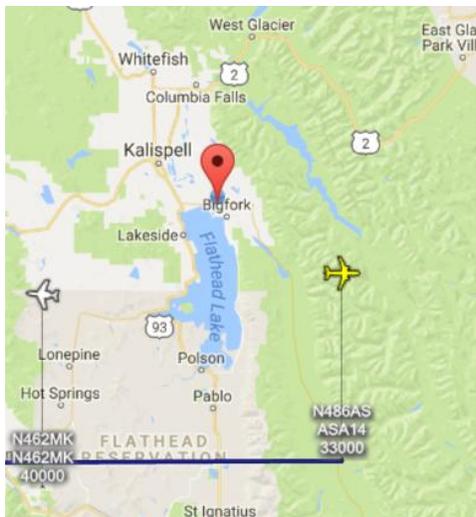


Figure 24: Virtual Radar Server: Aircraft Map – Location Icon

For Virtual Radar Server documentation visit:

<http://www.virtualradarserver.co.uk/>

## 14 Support

For pingStation 3 support, visit: <http://uavionix.com/support/>