

Installation and initial configuration of UI-View32, with PMap Server 7 and Precision Mapping Streets and Traveler 8.0 on Microsoft Vista

Background: UI-View is considered one of the best Automated Position Reporting System (APRS) currently being used on the Windows platform. There are a number of configuration guides, but not as many installation guides. This document is not authoritative but will assist you installing UI-View 32 as a clean installation (no previous versions of UI-View or any Precision Mapping tools) on Microsoft Windows Vista 32-bit version.

Requirements: These instructions assume the following software

- A personal computer running Microsoft Vista 32-bit with Service Pack 1 with at least one serial or USB connection.
- Microsoft Knowledge Base article 917607 (file name Windows6.0-KB917607-x86.msu) available at <http://support.microsoft.com/kb/917607>
- UI-View 32, version 2.03 (file name 32full203.exe), registered, available at <http://www.ui-view.org/>
- PMap Server version 7.07a (file name pmapserver707a.zip) available at <http://www.ui-view.org/>
- Precision Mapping Streets and Traveler v8.0 (CDs) available at <http://www.undertowsoftware.com/>. Allow five days for delivery of the CDs, they do not have a download option.
- A TNC and associated cables, including a serial to USB cable if your PC does not support serial connections. These instructions assume a Kantronics KPC 3+ (<http://www.kantronics.com/products/kpc3.html>) available at your local amateur radio dealer.
- An amateur radio transceiver.

Preparing for the installation

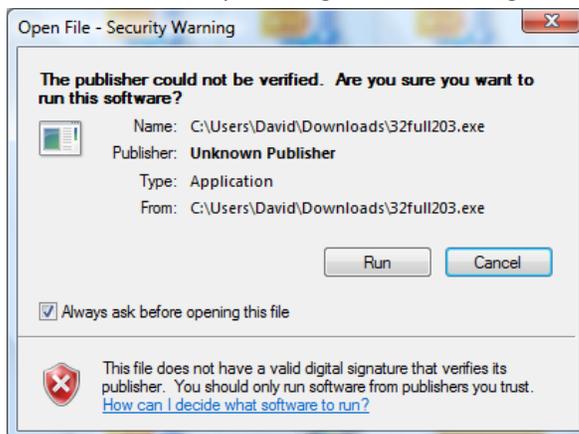
Before you can start the installation, you have to enable the build-in Administrator account which is disabled by default in Vista.

1. Open a browser to Microsoft KB article 555910 (<http://support.microsoft.com/kb/555910>) which details the steps below. Note there is a syntax error in the Microsoft instructions, corrected in these instructions.
2. Log in as a user with administrator privileges.
3. Open a command prompt. Click the Window button (bottom left corner) and type `cmd` in the *Start Search* box and press <ENTER>).

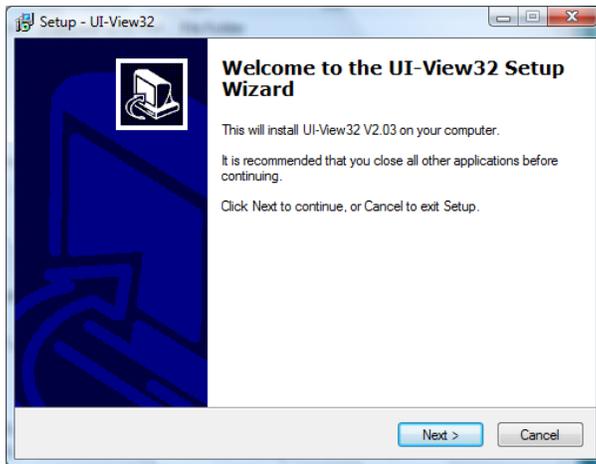
4. At the command prompt, type `net user administrator /active` and press <ENTER>
5. At the command prompt, type `net user administrator <password>` where <password> is a password for the Administrative user and press <ENTER>
6. Type `exit` to close the window.

Installing UI-View 32

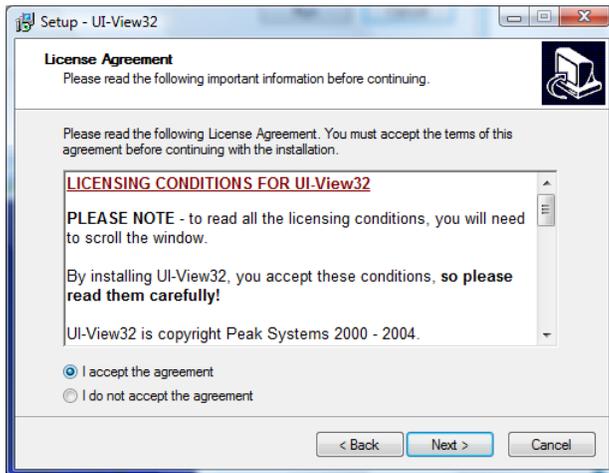
1. Make sure you have your UI-View registration information on hand before starting the installation.
2. Log out of the current user and log back in as the Administrative user to install the software. You **must** be logged in as the Administrator in order to successfully install certain files in the UI-View and Precision Streets and Traveler v8.0 software
3. Microsoft has changed the help functions in Vista and older program help pages (like those in UI-View) need to have a helper engine installed. Install Microsoft patch KB917607 to enable the older help function.
4. Because of increased Security in Vista, when you double click on the UI-View bundle called 32full203.exe and you will get the following Security Message. Click RUN.



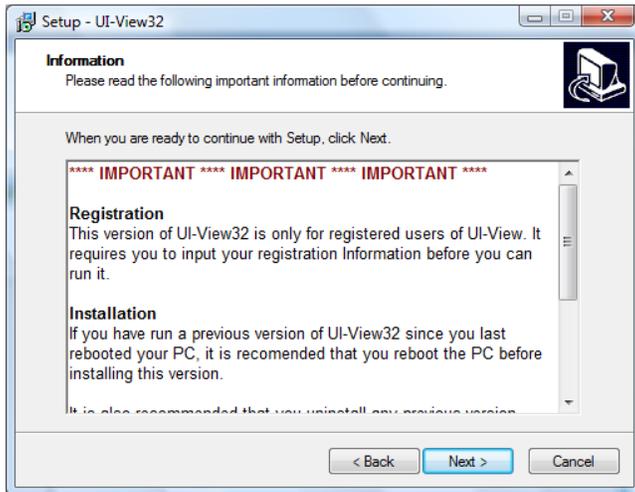
5. At the initial Welcome Screen, click NEXT.



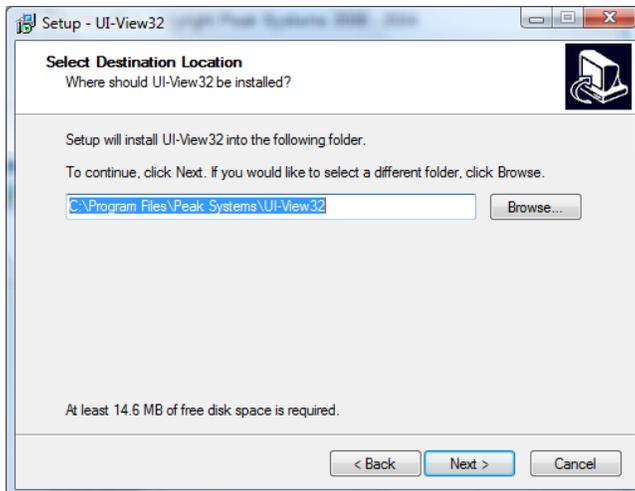
6. At the License Agreement screen, click the Radio Button for *I accept the agreement* after carefully reading the license agreement.



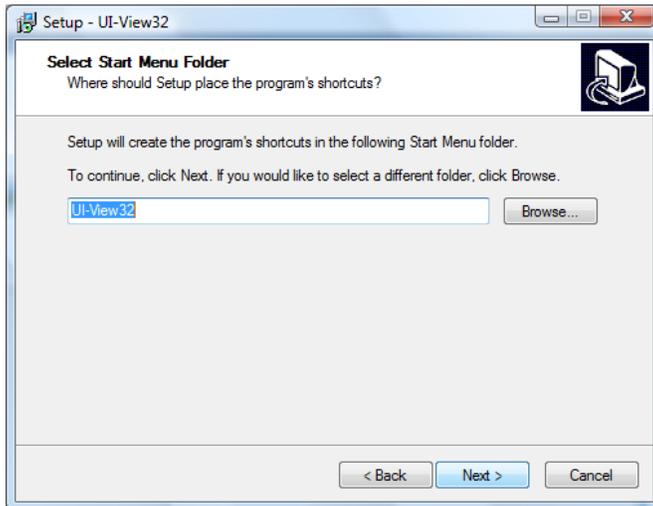
7. At the Information screen, you are again reminded to register and there are some additional points of interest. The installation tips are for Windows XP.



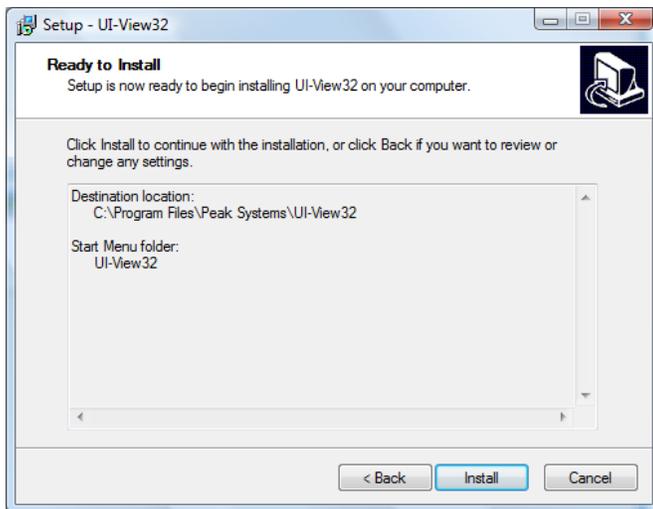
8. At the Select Destination Location screen, if you would like to install the UI-View software into another directory (not advised) you can change the location here.



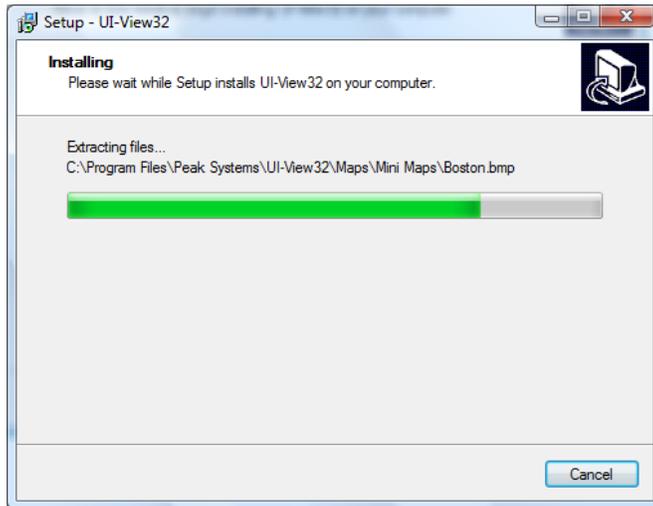
9. On the Select Start Menu Folder screen, if you wish to put the UI-View shortcut in another folder, you can make the change here.



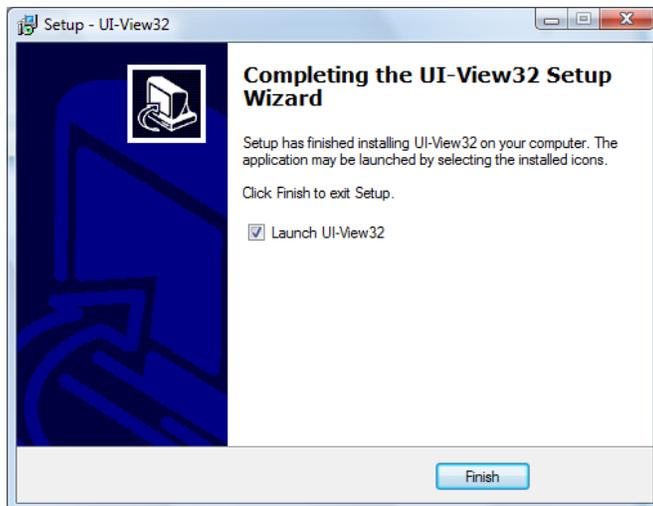
10. You are now ready to install UI-View. Click Install.



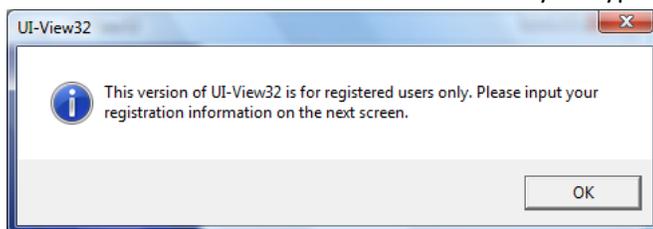
11. UI-View will begin to install. Depending on the speed of your system it will take a minute or two to finish up the installation process.



12. When the installation has finished, put a check mark in the *Launch UI-View32* check box and click FINISH to start the application.



13. When you start UI-View for the first time, you will be prompted to enter your registration information in the next window. Click OK. If you bypass this step, things get messy...



14. Enter your registration information as provided by UI-View and click OK.



Register UI-View32

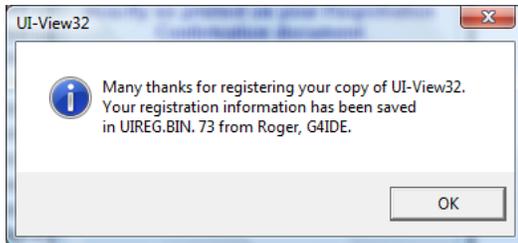
Please input your callsign and name, exactly as printed on your Registration Confirmation document.

Callsign

Name

Reg. No.

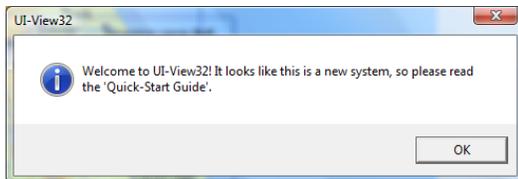
15. On the Thank you screen, click OK.



UI-View32

Many thanks for registering your copy of UI-View32. Your registration information has been saved in UIREG.BIN. 73 from Roger, G4IDE.

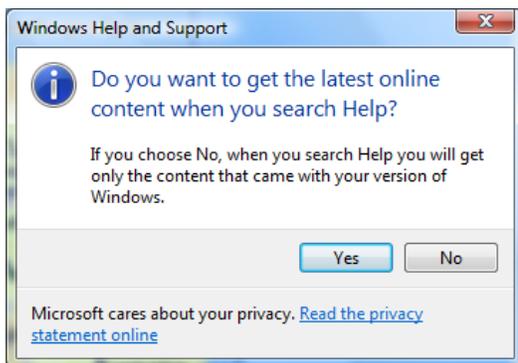
16. At many points, you will be reminded to read the Quick Start guide. Click OK.



UI-View32

Welcome to UI-View32! It looks like this is a new system, so please read the 'Quick-Start Guide'.

17. UI-View automatically launches the Quick Start help guide. If you did not install the Help patch earlier, you will get this message. Click YES to proceed. In either case, close the help window at this time.



Windows Help and Support

Do you want to get the latest online content when you search Help?

If you choose No, when you search Help you will get only the content that came with your version of Windows.

Microsoft cares about your privacy. [Read the privacy statement online](#)

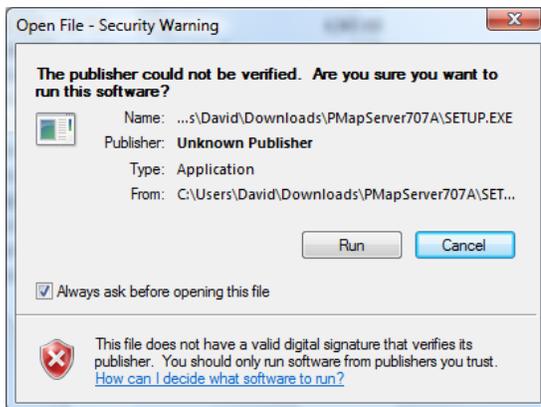
18. When you are done, you should see something like this.



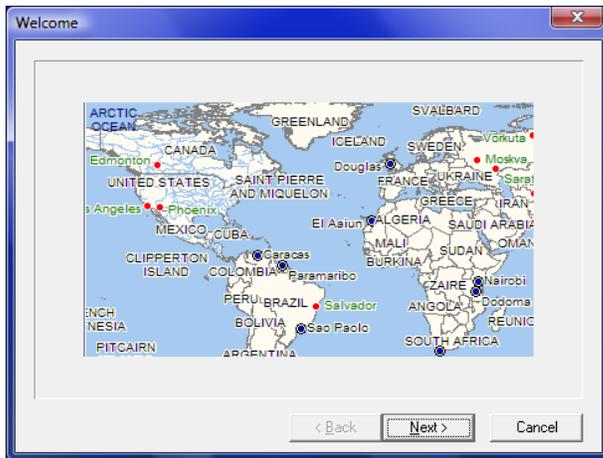
19. Now close UI-View. We will come back and configure it in a few minutes.

Installing PMap Server 7

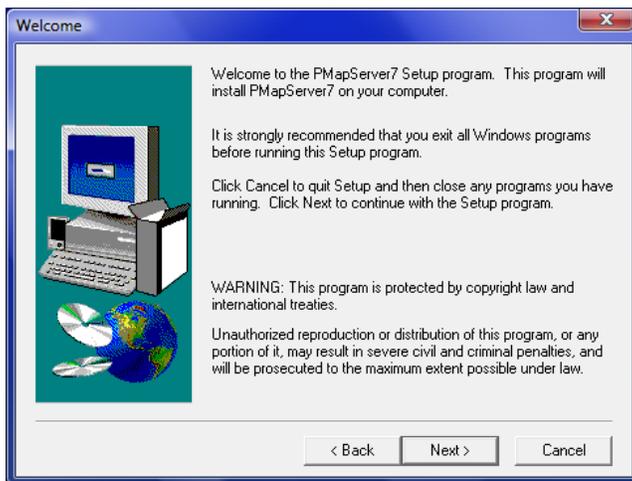
1. The PMap Server is the interface that translates the GPS information and plots it onto the map. Install the PMap Server files from PMap707A.zip file by first unzipping the package (or double clicking on the zip file if you do not have WinZip installed) and then double clicking on setup.exe.
2. Click Run to start the setup.



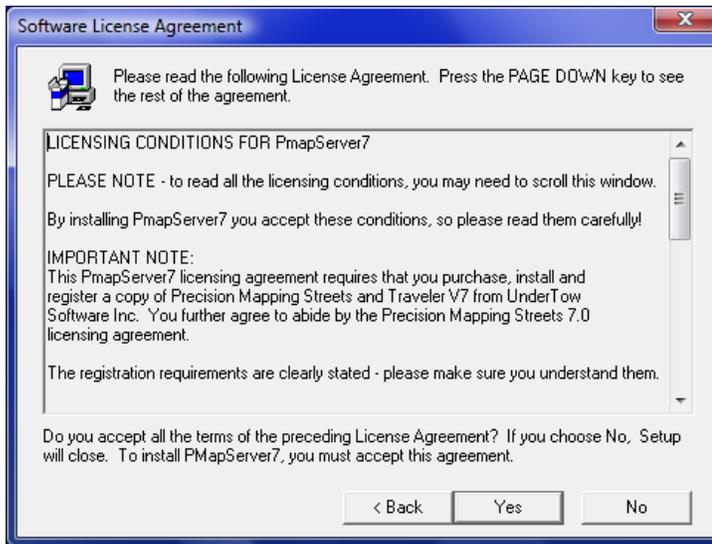
3. At the PMapServer Welcome screen, click NEXT.



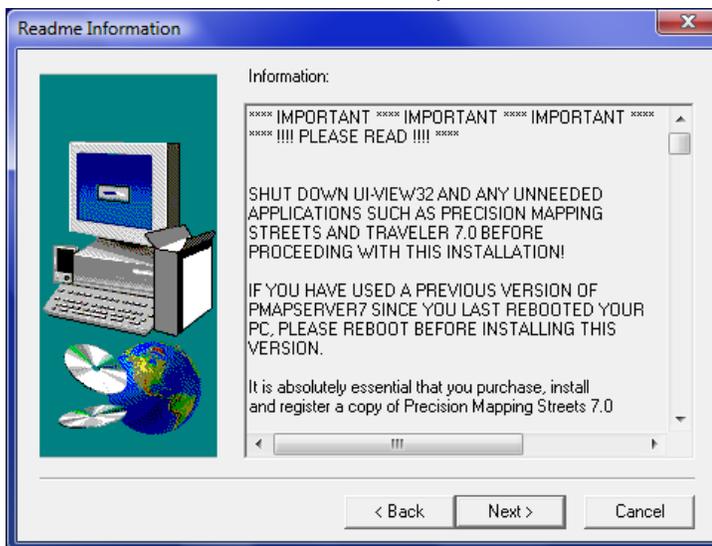
4. At the next welcome screen, click NEXT.



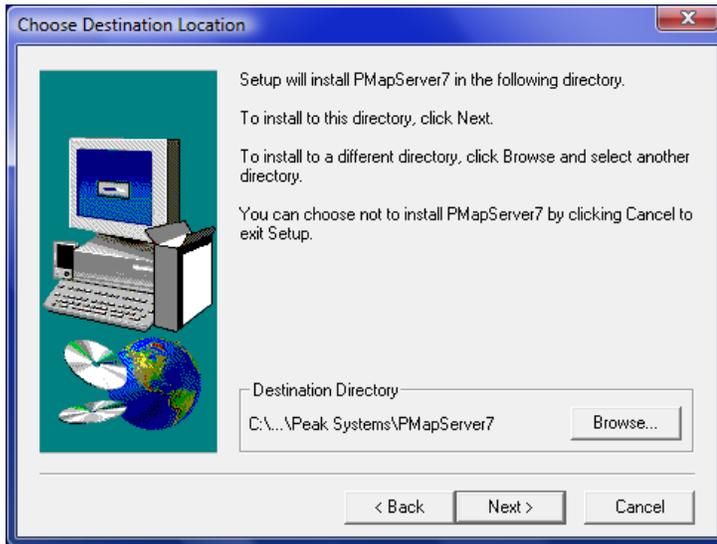
5. On the License screen, click YES after carefully reading the license conditions.



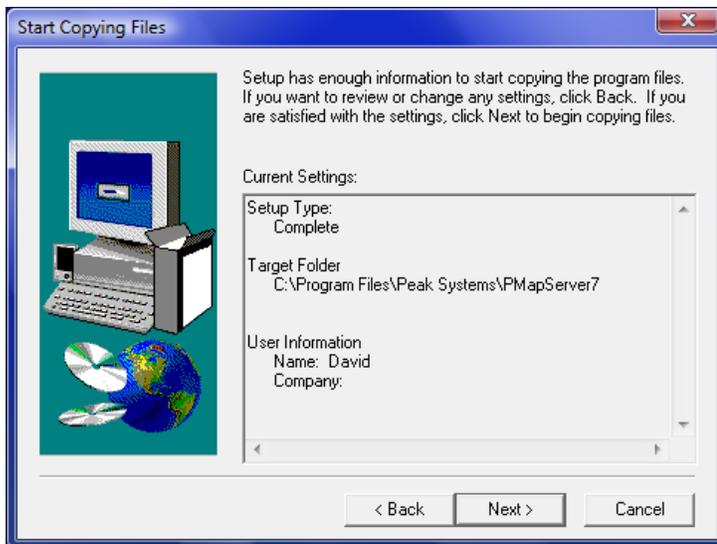
6. On the Readme Information screen, you are reminded to close all applications. Click NEXT.



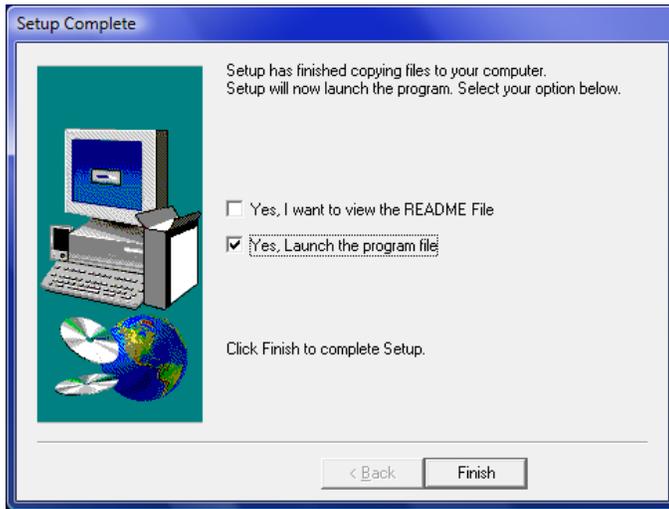
7. On the Choose Destination location screen, if you want to install the PMapServer in a different location, you can change it here. Click NEXT.



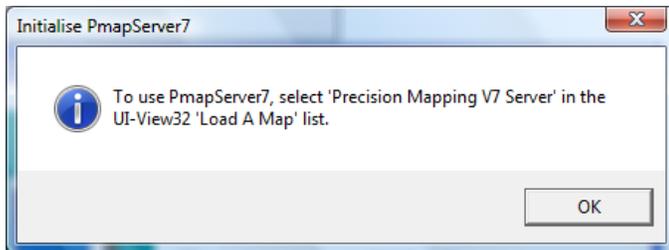
8. At the Start Copying Files screen, click NEXT.



9. Once the Setup is complete, put a check mark in the *Yes, Launch the program file* check box and click FINISH.

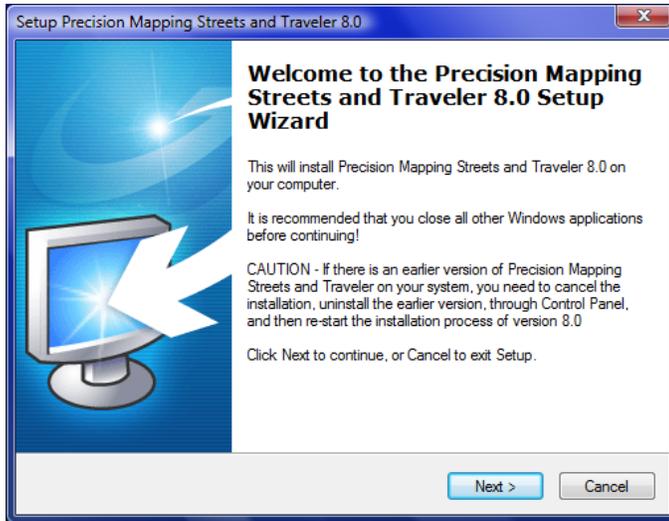


10. When the program launches, it will copy the necessary files to the UI-View folder and then present you with this message. Click OK.

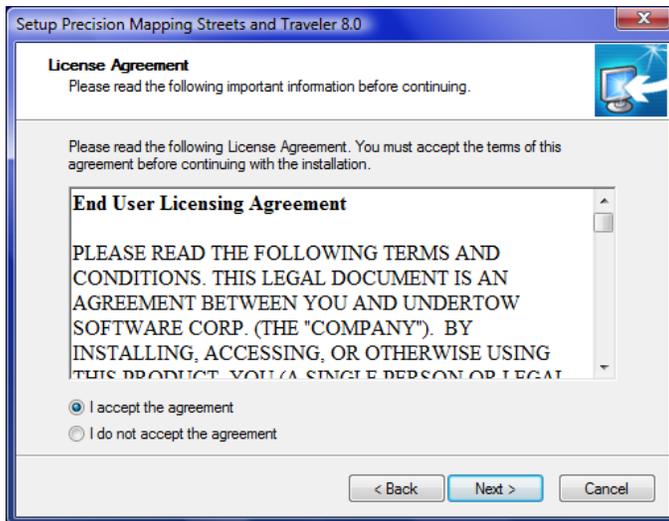


Installing Streets and Traveler

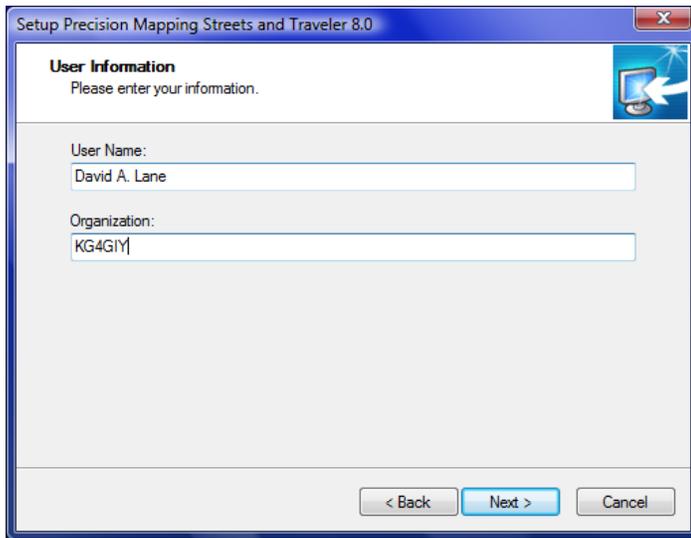
1. Insert the first CD. If it does not autostart, navigate to your CDROM drive and double click setup.exe
2. On the Welcome Screen, click NEXT.



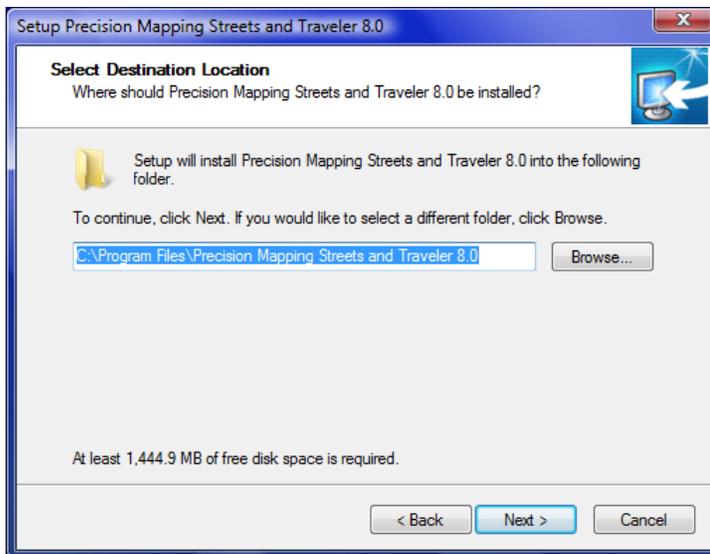
3. On the License Agreement screen, click the radio button next to *I accept the agreement* after carefully reading it and then click NEXT.



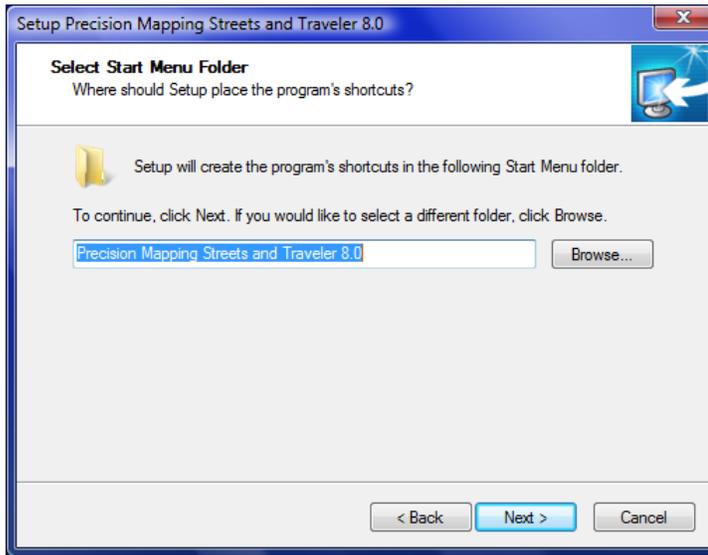
4. Enter your user information on the User Information screen.



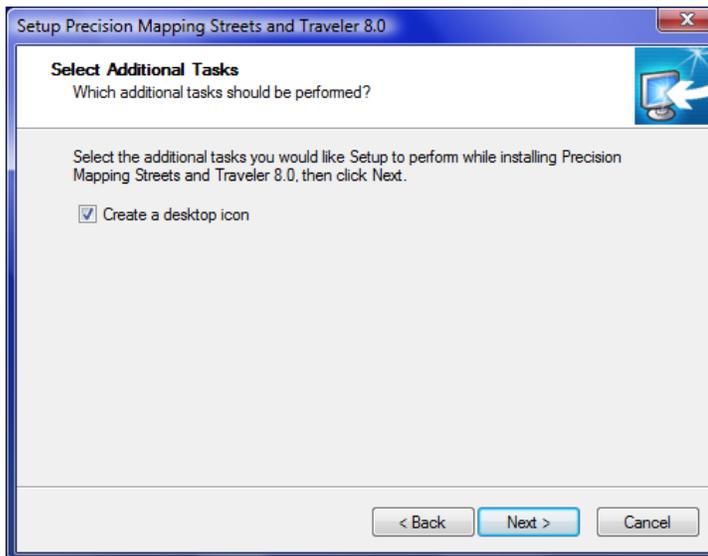
5. If you want to change the installation location, you can do it on the Select Destination Location screen, otherwise click NEXT.



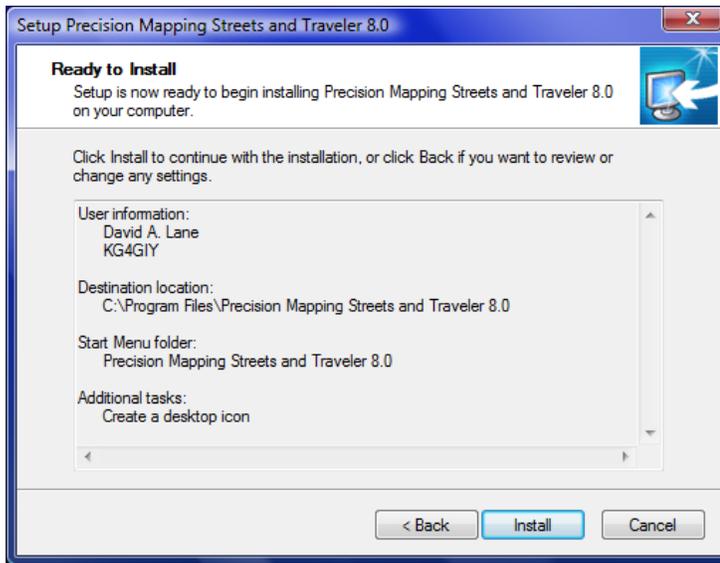
6. If you want to put the shortcuts in another folder on the start menu, like UI-View, you can change it here. Click NEXT.



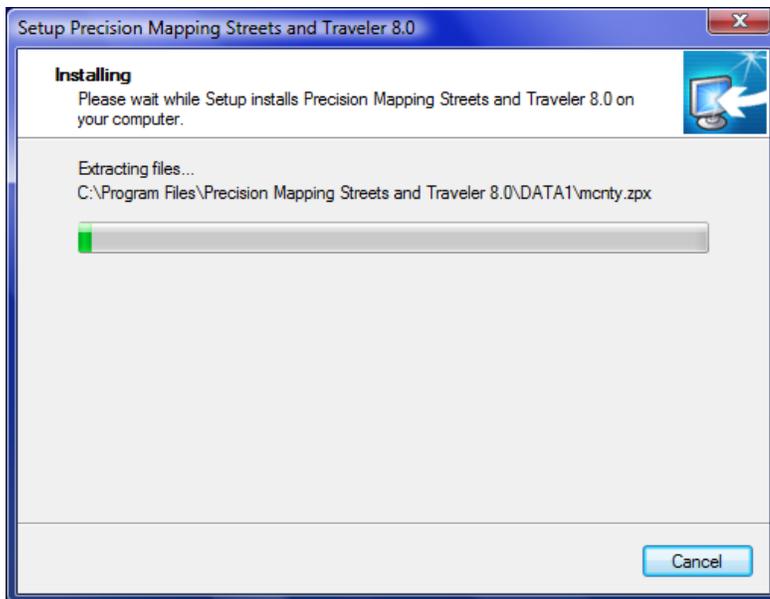
7. If you do not want another icon on your desktop, uncheck the *Create a desktop item* check box. Click Next.



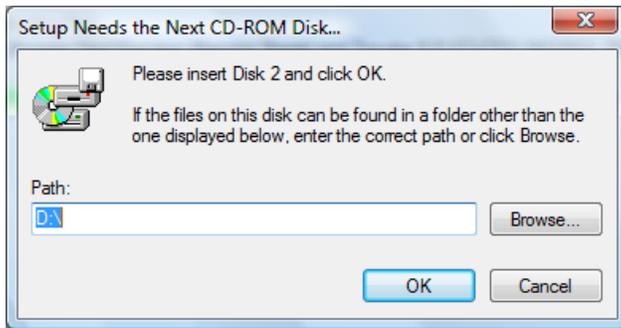
8. Click NEXT to install the maps.



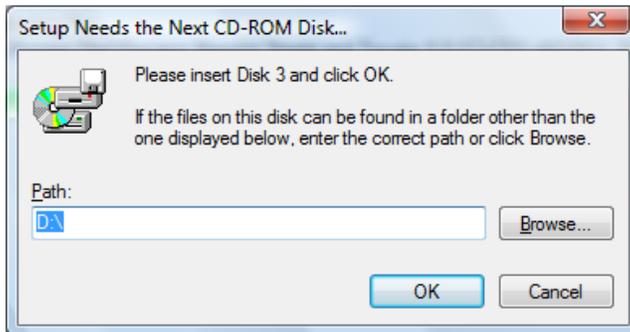
9. Streets and Traveler will begin installing. There are three CDs so it will take a few minutes and about 1.5 GB in disk space.



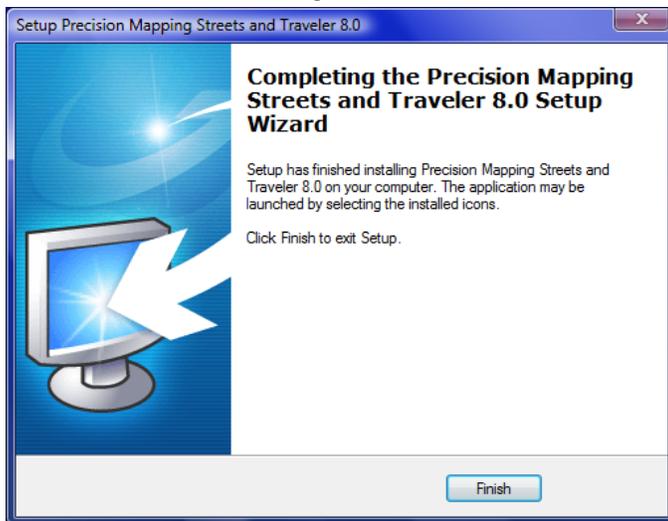
10. When prompted, swap the CD.



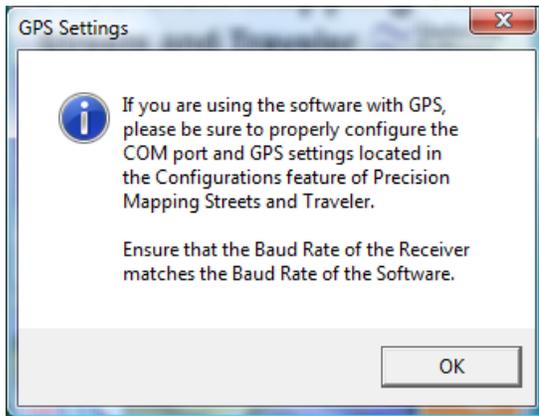
11. And again.



12. Once it is finished installing, click FINISH



13. Start Streets and Traveler 8.0 and register it. On the GPS warning screen, click OK



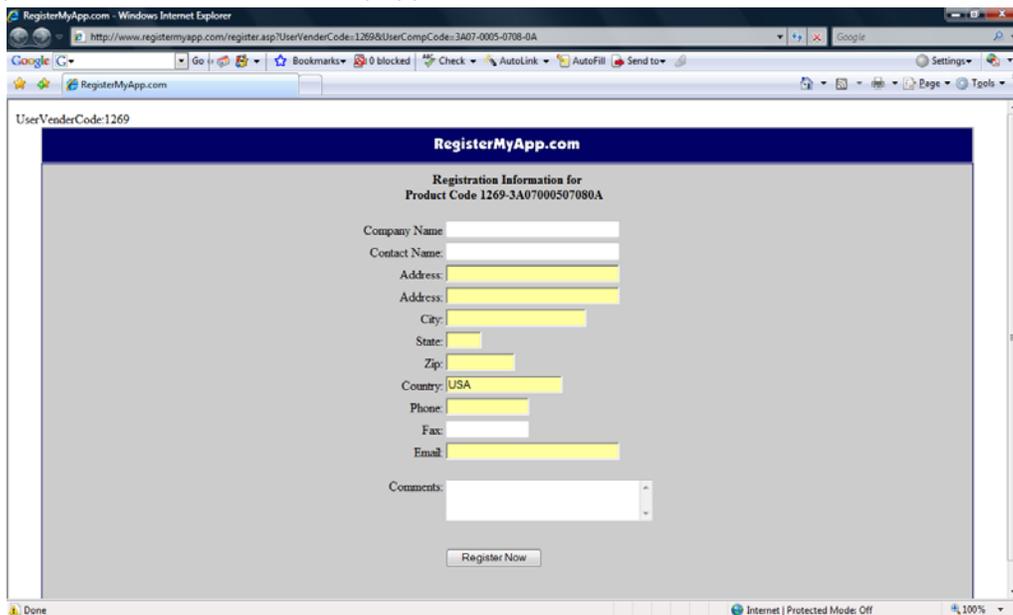
14. You must register your software before you can use it with UI-View. Click register over the Internet.



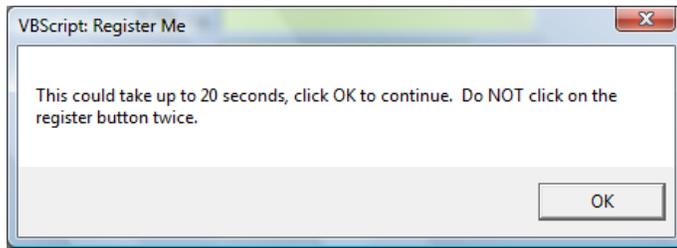
15. Your product code is automatically filled in. Write it down in case you need it later and click the link in Step 2 to go to RegisterMyApp.com.



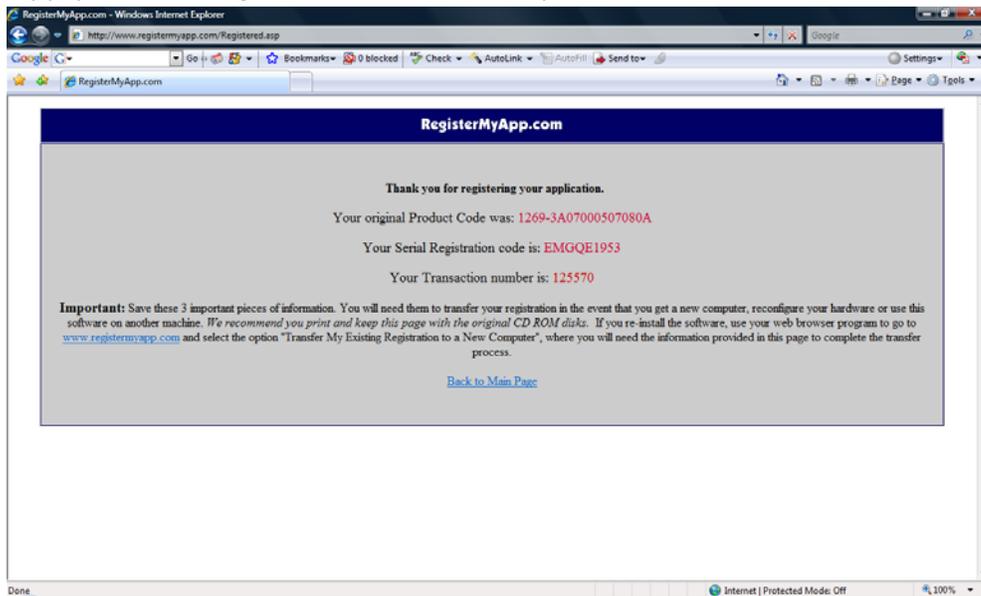
16. Your browser will open. Fill in the fields and click register now. Note that in most cases your product code will automatically appear on the screen.



17. When you click the register button, you will get the following information box. Click OK.



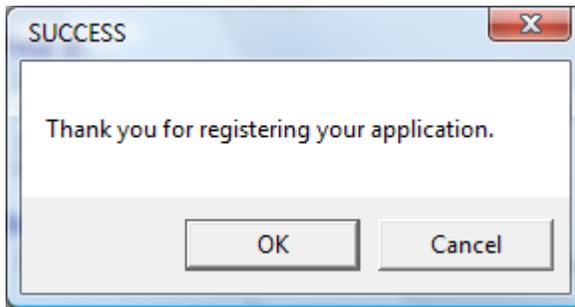
18. Once you have successfully registered, your browser will look similar to this. Write down (or copy) your Serial Registration code and close your browser.



19. Type (or paste) your Serial registration code in step 3. The code is a hash of the product code and cannot be used anywhere else. Click OK.



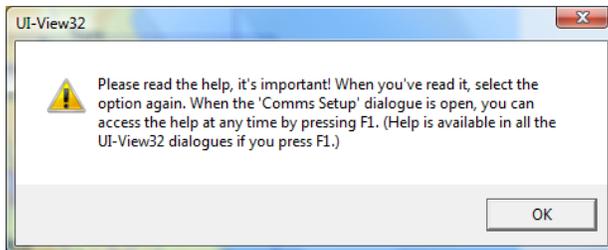
20. Click OK to close the Success window.



21. Close Streets and Traveler.
22. Log out of the Administrator account.

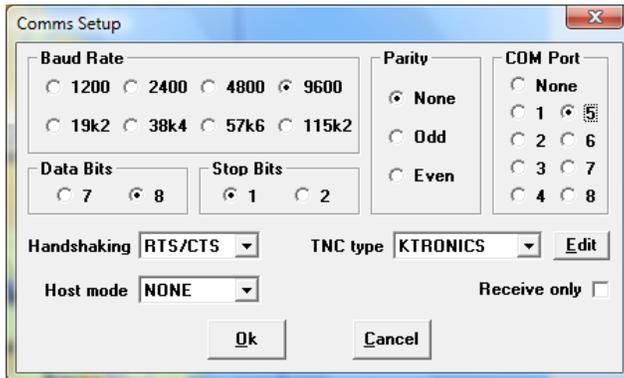
Configuring UI-View

1. Log in as your normal user. If you would like to disable the Administrator's account, open a command prompt and type `net user administrator /active:no` and press <ENTER>. Type EXIT to close the command box.
2. Attach your TNC. For best results, a default configuration on the TNC is recommended. Reset your TNC to factory default levels as instructed in your manual before continuing.
3. Verify your communications port:
 - a. Connect your TNC, plug it in and turn it on but DO NOT turn on your radio yet.
 - b. Click the Windows button → Control Panel → System.
 - c. Click on Device Manager link on the left hand side.
 - d. Click on the + sign next to Ports
 - e. Verify your comm port setting.
 - f. Click on the red X to close the windows.
4. Open UI-View
5. You should now be looking at a map of the United Kingdom and you should have a help tip in the top right corner. Uncheck the *Show Tips on Startup* if you want to and close the tip.
6. From the Setup menu, select Comms Setup. You will get the following message. Click OK.



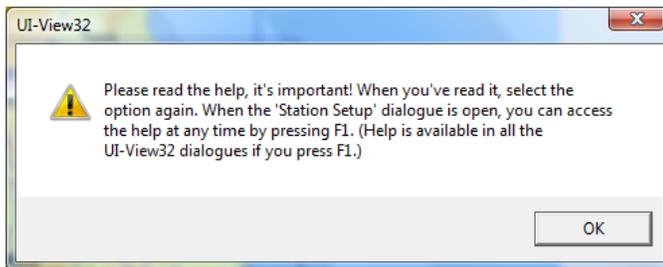
7. Read the help topic and then minimize or close the window.
8. Click Setup | Comms Setup again.

9. If you do not know what the settings on your TNC are, stop here and verify them. Otherwise, enter the com settings as relevant. These are the settings for my KPC3+:



A number of messages will scroll through the bottom of your monitor screen. If any of them are an error message, stop and read the message. Most likely you have a baud rate setting issue and you may need to hard set your baud rate in the TNC before continuing. Also verify that you selected the correct com port.

10. Next, click Setup | Station Setup
11. Click OK, and read the information.



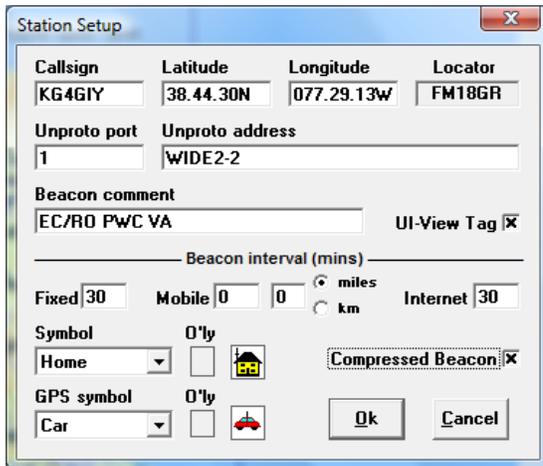
12. Click Setup | Station Setup again and enter your information. If you do not know your latitude and longitude, there are several places you can look it up, use your GPS or ask a friend over for a drink and ask him to bring his GPS.

NOTE: From the help file:

Latitude - input your station latitude. The format is dd.mm.nn<NS>. "dd" is two digits for degrees. "mm" is two digits for minutes. "nn" is two digits for decimal minutes. NOTE - decimal minutes, not seconds. "<NS" is either "N" for North or "S" for South. Example - 52.58.23N

Longitude - input your station longitude. The format is ddd.mm.nn<EW>. "ddd" is three digits for degrees. "mm" is two digits for minutes. "nn" is two digits for decimal minutes. NOTE - decimal minutes, not seconds. "<EW>" is either "E" for East or "W" for West. Example - 000.02.77W

Refer to the document <http://www.aprs.org/fix14439.html> about what values to put in the Unproto address. They have changed. These are the settings from my station:



Station Setup

Callsign	Latitude	Longitude	Locator
KG4GIY	38.44.30N	077.29.13W	FM18GR

Unproto port: 1
Unproto address: WIDE2-2

Beacon comment: EC/RD PwC VA
UI-View Tag

Beacon interval (mins):
Fixed: 30, Mobile: 0, Internet: 30

Symbol: Home
GPS symbol: Car

Compressed Beacon

APRS server log on required

Validation number:

Enable auto reconnect

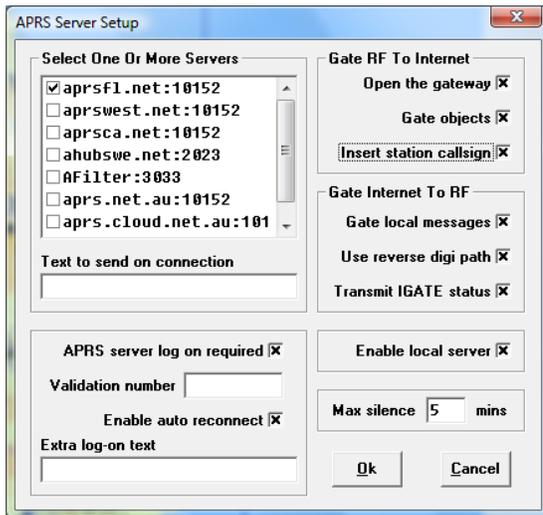
Extra log-on text:

Max silence: 5 mins

Ok Cancel

NOTE: the locator value will autofill based on the latitude and longitude entered.

13. Click on Setup | APRS Server setup, click OK on the warning, read the help file and click Setup | APRS Server setup again. I have selected to gate my RF locations to the Internet and Internet traffic to my RF. These are not optimal solutions for emergency situation, but for testing, it is not a bad way to start. Check off the servers to connect to and enter the validation number from your UI-View registration under the heading ARPS Server validation code. Click OK when done. This is one case where you really want to go back and read the help file for tips and tuning tricks after verifying that everything is working correctly.



APRS Server Setup

Select One Or More Servers

- aprsf1.net:10152
- aprswest.net:10152
- aprsca.net:10152
- ahubswe.net:2023
- AFilter:3033
- aprs.net.au:10152
- aprs.cloud.net.au:101

Text to send on connection:

APRS server log on required

Validation number:

Enable auto reconnect

Extra log-on text:

Gate RF To Internet

Open the gateway

Gate objects

Insert station callsign

Gate Internet To RF

Gate local messages

Use reverse digi path

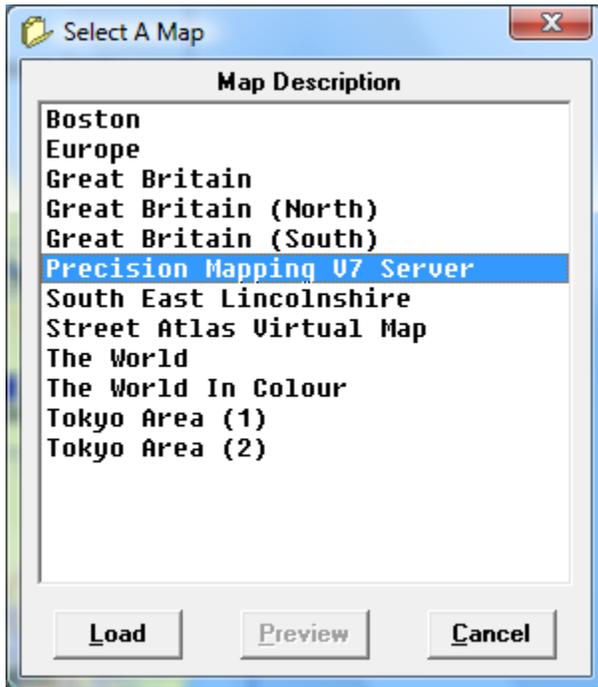
Transmit IGATE status

Enable local server

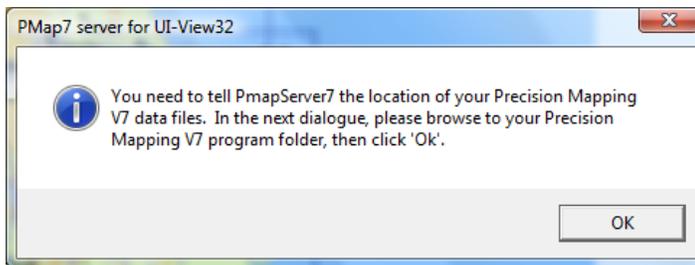
Max silence: 5 mins

Ok Cancel

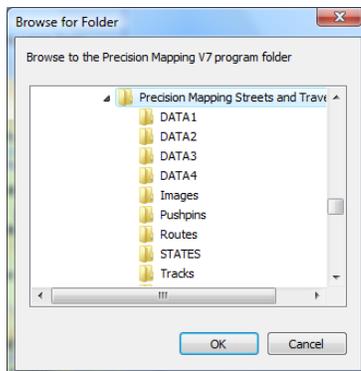
14. To connect our Streets and Traveler Maps, click on Maps | Load a map. Select the Precision Mapping V7 Server option and click LOAD.



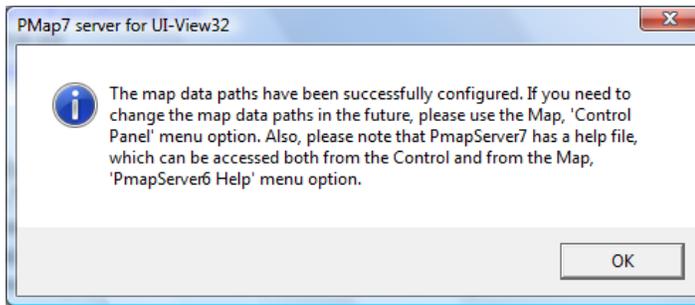
15. You have to tell PMapServer where your map files are. Click OK.



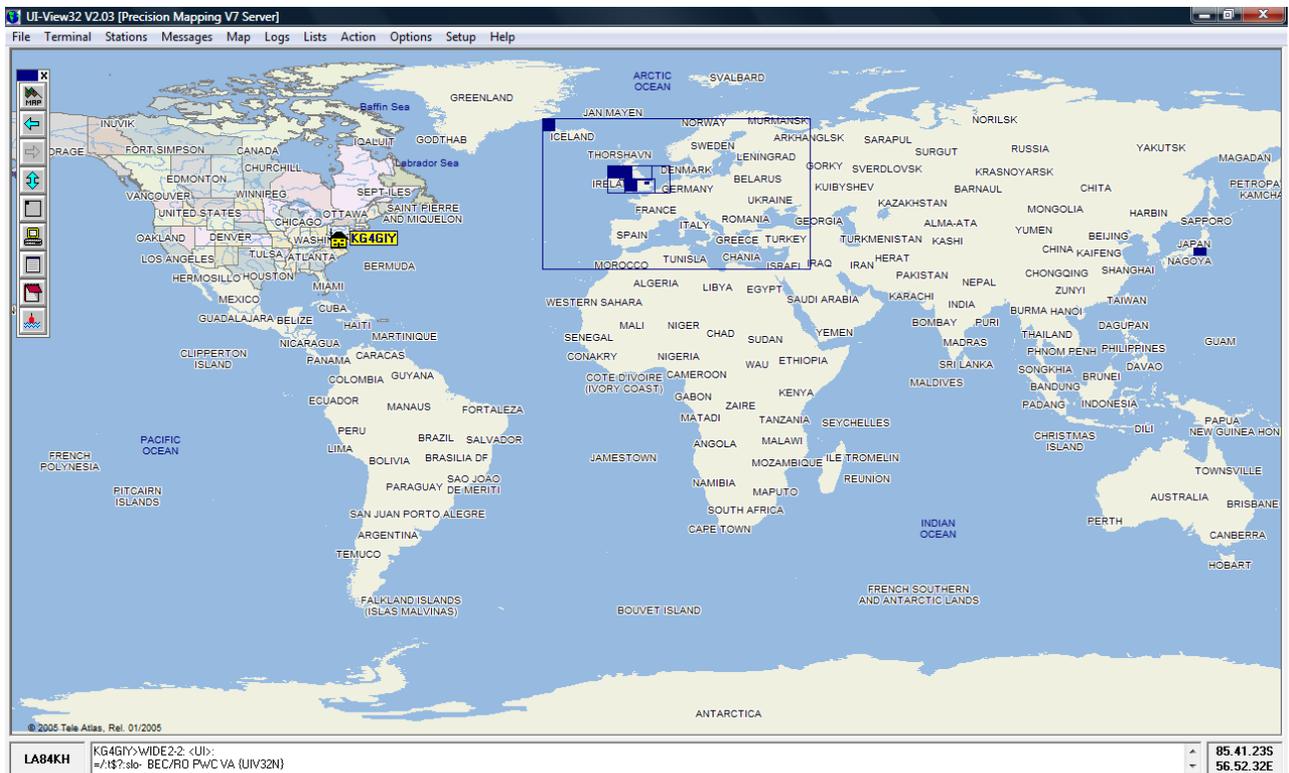
16. Browse to the folder, highlight it and click OK.



17. Once the PMapServer has successfully read in the files, you will get this message. Click OK.



18. You will have to register your PMap Server 7. This requires a DIFFERENT code than we retrieved for the Precision Mapping Streets and Traveler, but the process is the same. Click OK to proceed and follow the instructions. Once you have done that, you should have a map that looks something like this:

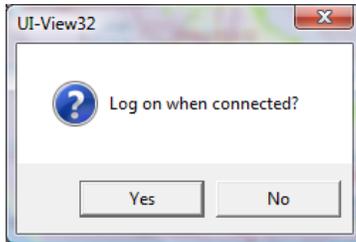


Congratulations! You have a fully operating APRS system! If you right click on your home icon, you can select center the map, which will reset the map. Right clicking on the double headed up/down arrow will zoom in. Left clicking will zoom out. You might occasionally need to recenter the map.

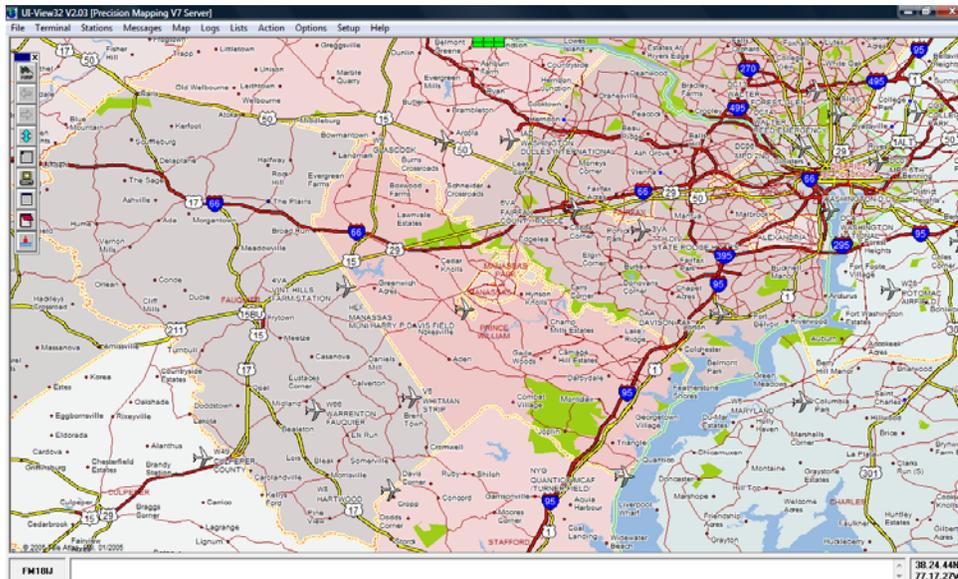
Once you have the map at a resolution that suite you:

1. Turn off your TNC.

2. Turn on your radio and dial up the APRS frequency (144.390) and ensure that it is in SIMPLEX mode (some radios have a negative offset in their band plan for this frequency). If your TNC is not connected, you will have to turn your radio off to connect it.
3. Turn on your TNC.
4. Watch the rolling display in the gray status bar of UI-View. It should take only a few moments, depending on APRS activity in your area, for stations to start popping up.
5. To connect to the APRS Server, click Actions | Connect to APRS Server.
6. Click OK to log on.



7. You can tell you are connected by the six little green box at the top of the display near the middle of the screen:



8. Have FUN!

Oh, and here is something neat. If you have a sound card installed and active, UI-View will talk to you as it populates the stations. It speaks proper Queen's English. Pop it on at a show and amaze folks walking by!