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.

- 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.
- 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.

B Setup - UI-View32	
	Welcome to the UI-View32 Setup Wizard
	This will install UI-View32 V2.03 on your computer.
	It is recommended that you close all other applications before continuing.
	Click Next to continue, or Cancel to exit Setup.
	Next > Cancel

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

👸 Setup - UI-View32	• X
License Agreement Please read the following important information before continuing.	
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.	
LICENSING CONDITIONS FOR UI-View32	*
PLEASE NOTE - to read all the licensing conditions, you will need to scroll the window.	E
By installing UI-View32, you accept these conditions, so please read them carefully!	
UI-View32 is copyright Peak Systems 2000 - 2004.	-
 I accept the agreement I do not accept the agreement 	
< Back Next >	Cancel

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.

13 Setup - UI-View32	
Select Destination Location Where should UI-View32 be installed?	
Setup will install UI-View32 into the following folder.	
To continue, click Next. If you would like to select a different folder, click	Browse.
C:\Program Files\Peak Systems\UI-View32	Browse
At least 14.6 MB of free disk space is required.	
< Back Next >	Cancel

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.

🔂 Setup - UI-View32	
Select Start Menu Folder Where should Setup place the program's shortcuts?	
Setup will create the program's shortcuts in the following Start Menu fold	der.
To continue, click Next. If you would like to select a different folder, clic	k Browse.
UI-Mew32	Browse
< Back Next :	Cancel

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

Í	Setup - UI-View32
	Ready to Install Setup is now ready to begin installing UI-View32 on your computer.
	Click Install to continue with the installation, or click Back if you want to review or change any settings.
	Destination location: C:\Program Files\Peak Systems\UI-View32 Start Menu folder: UI-View32
	۰. ۲
	< Back Install Cancel

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.

😼 Setup - UI-View32	
Installing Please wait while Setup installs UI-View32 on your computer.	
Extracting files C\Program Files\Peak Systems\UI-View32\Maps\Mini Maps\Boston.bmp 	
	Cancel

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

😼 Setup - UI-View32	
	Completing the UI-View32 Setup Wizard
	Setup has finished installing UI-View32 on your computer. The application may be launched by selecting the installed icons.
	Click Finish to exit Setup.
	☑ Launch UI-View32
	Finish

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 KG4GIY	
Name David Lane	
Reg. No.	
<u>O</u> k <u>C</u> ancel	

15. On the Thank you screen, click OK.



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



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.

Window	s Help and Support
1	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.
	Yes No
Micros statem	oft cares about your privacy. <u>Read the privacy</u> ent 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

- 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.

Welcome	x
ARCTIC OCEAN CANADA Edmonton UNITED STATES AND MIQUELON SAngeles Phoenix MEXICO_CUBA CLIPPERTON ISLAND COLOMBIA Persumation PERUIGRAZIL Salvador NCH NESIA DOUDA D	
< <u>Back</u> Cancel	

4. At the next welcome screen, click NEXT.

Welcome	
	Welcome to the PMapServer7 Setup program. This program will install PMapServer7 on your computer. It is strongly recommended that you exit all Windows programs before running this Setup program. Click Cancel to quit Setup program. Click Cancel to quit Setup and then close any programs you have running. Click Next to continue with the Setup program. WARNING: This program is protected by copyright law and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
	< Back Next > Cancel

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.

Readme Information	
	Information:
	SHUT DOWN UI-VIEW32 AND ANY UNNEEDED APPLICATIONS SUCH AS PRECISION MAPPING STREETS AND TRAVELER 7.0 BEFORE PROCEEDING WITH THIS INSTALLATION!
	IF YOU HAVE USED A PREVIOUS VERSION OF PMAPSERVER7 SINCE YOU LAST REBOOTED YOUR PC, PLEASE REBOOT BEFORE INSTALLING THIS VERSION.
	It is absolutely essential that you purchase, install and register a copy of Precision Mapping Streets 7.0
	<►
	< Back Next > Cancel

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.

Choose Destination Locat	ion 📃 🗙
	Setup will install PMapServer7 in the following directory. To install to this directory, click Next. To install to a different directory, click Browse and select another directory. You can choose not to install PMapServer7 by clicking Cancel to exit Setup.
	Destination Directory C:\\Peak Systems\PMapServer7 Browse < Back Next > Cancel

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

Start Copying Files	×
	Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files. Current Settings: Setup Type: Complete Target Folder C:\Program Files\Peak Systems\PMapServer7 User Information Name: David Company:
	< Back Next > Cancel

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

Setup Complete	
	Setup has finished copying files to your computer. Setup will now launch the program. Select your option below. Yes, I want to view the README File Yes, Launch the program file Click Finish to complete Setup.
	< Back 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.

Initialise PmapServer7	×
To use PmapServer7, select 'Pi UI-View32 'Load A Map' list.	recision Mapping V7 Server' in the
	ОК

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.

Setup Precision Mapping Streets and Traveler 8.0	×
License Agreement Please read the following important information before continuing.	R
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.	
End User Licensing Agreement	
PLEASE READ THE FOLLOWING TERMS AND	
CONDITIONS. THIS LEGAL DOCUMENT IS AN	
AGREEMENT BETWEEN YOU AND UNDERTOW	
SOFTWARE CORP. (THE "COMPANY"). BY	
INSTALLING, ACCESSING, OR OTHERWISE USING	-
TUIS BRODUCT VOLLA SINCLE DEDSON OF LEGAL	
I accept the agreement	
I do not accept the agreement	
< Back Next >	Cancel

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

Setup Precision Mapping Streets and Traveler	8.0	x
User Information Please enter your information.		R.
User Name:		
David A. Lane		
Organization:		
KG4GIY		
	< Back Next > Car	ncel

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

Setup Precision Mapping Streets and Traveler 8.0	x
Select Destination Location Where should Precision Mapping Streets and Traveler 8.0 be installed?	
Setup will install Precision Mapping Streets and Traveler 8.0 into the following folder.	
To continue, click Next. If you would like to select a different folder, click Browse.	
C:\Program Files\Precision Mapping Streets and Traveler 8.0 Browse	
At least 1,444.9 MB of free disk space is required.	
< Back Next > Cancel	

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.

Setup Precision Mapping Streets and Traveler 8.0	x
Select Start Menu Folder Where should Setup place the program's shortcuts?	
Setup will create the program's shortcuts in the following Start Menu folder.	
To continue, click Next. If you would like to select a different folder, click Browse.	
Precision Mapping Streets and Traveler 8.0 Browse	
< Back Next > Canc	el

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

Setup Precision Mapping Streets and Traveler 8.0	×
Select Additional Tasks Which additional tasks should be performed?	R
Select the additional tasks you would like Setup to perform while installing Precision Mapping Streets and Traveler 8.0, then click Next. Create a desktop icon	
< Back Next > Ca	ancel

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.

Setup Precision Mapping Streets and Traveler 8.0	×
Installing Please wait while Setup installs Precision Mapping Streets and Traveler 8.0 on your computer.	R.
Extracting files C:\Program Files\Precision Mapping Streets and Traveler 8.0\DATA1\mcnty.zpx	
	Cancel

10. When prompted, swap the CD.

Setup Need	Is the Next CD-ROM Disk
F	Please insert Disk 2 and click OK. If the files on this disk can be found in a folder other than the one displayed below, enter the correct path or click Browse.
Path:	Browse
	OK Cancel

11. And again.

Setup Need	ds the Next CD-ROM Disk
	Please insert Disk 3 and click OK.
1	If the files on this disk can be found in a folder other than the one displayed below, enter the correct path or click Browse.
<u>P</u> ath:	
D:\	Browse
	OK Cancel

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.					
Software Registration					
Register Today!					
To ensure we can provide quality customer support, it is helpful for us to maintain a record of our licensed users. You have 15 Days to register this application.					
Please choose from one of the following options:					
Register Over the Internet					
Register Over the Phone					
Register Later					

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.

Internet Registration				
Step 1: Write down your product code before you attempt to register. This is unique to your computer. Your Product Code is: 1269-3A07-0005-0708-0A				
Step 2: Go to <u>www.RegisterMyApp.com</u> and enter your product code. Clicking on the link above should automatically open your browser and go to the website, if not, open your browser and go to the website manually.				
Step 3: The website will provide you with a Serial Registration Code. Enter Registration Code:				
Press OK to Register your License.				

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.

RegisterMyApp.com - Window	is Internet Explorer	
🕤 🕤 👻 🚺 http://www.re	gistermyapp.com/register.asp?UserVenderCode=1269&UserCompCode=3A07-0005-0708-0A	🔹 🤧 🗙 Google 🖉
Google 🖸 -	💽 Go 🕫 🧭 🕈 🔹 🏠 Bookmarks 🛛 🔕 0 blocked 🛛 🂝 Check 👻 🐴 AutoLink 👻 🍗 AutoFill	🕒 Send to 🗸 🖉 🌑 Settings 🗸 🍕
🚖 💠 🌈 RegisterMyApp.	com	💁 👻 👼 👻 📴 Bage 💌 🚳 Tgols 💌
UserVenderCode:1269		
	Register MyApp.com	
	Registration Information for Product Code 1269-3A07000507080A	
	Company Name	
	Contact Name:	
	Address:	
	Address	
	City:	
	State:	
	Country USA	
	Phone:	
	Fax:	
	Email	_
	Comments	
	connecto.	
	Register Now	
Dana		Internet Protected Mode Off # 100% *
2 Provine		Turemer Leurer moder ou

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.

RegisterMyApp.com	m - Windows Internet Explorer			×
🕘 = 🙋 htt	p://www.registermyapp.com/Registered.asp	• 4, ×	Google	8
ogle G-	💽 Go 🖟 🌮 🖉 👻 🙀 Bookmarks = 🦓 0 blocked 🛛 🖑 Check = 🐴 AutoLink = 🔚 AutoFill 🍙 Send to	· 🖉	Settings •	۰
🔅 🌈 Regist	iterMyApp.com	<u>۵</u> .	🔊 🔹 📾 🔹 🕞 Bage 🕶 🍈 T	ools ▼
	RegisterMyApp.com			
	Thank you for registering your application.			
	Your original Product Code was: 1269-3A07000507080.	A		
	Your Serial Registration code is: EMGQE1953			
	Your Transaction number is: 125570			
Import softwar <u>www.re</u>	tant: Save these 3 important pieces of information. You will need them to transfer your registration in the event that yo e on another machine. We recommend you print and keep this page with the original CD ROM dicks. If you re-is pittermyapp com and select the option "Transfer My Existing Registration to a New Computer", where you will need t process.	ou get a new computer, reconfigure y astall the software, use your web bro he information provided in this page	your hardware or use this owser program to go to to complete the transfer	
	Back to Main Page			
		Internet Protected N	Mode: Off 🔍 🔍 100	. •

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.

Internet Registration				
Step 1:				
Write down your product code before you attempt to register. This is unique to your computer.				
Your Product Code is:				
1269-3A07-0005-0708-0A				
Step 2: Go to <u>www.RegisterMyApp.com</u> and enter your product code. Dicking on the link shove should automatically open				
your browser and go to the website, if not, open your browser and go to the website manually.				
Step 3:				
The website will provide you with a Serial Registration Code.				
Enter Registration Code: EMGQE1953				
Press OK to Register your License.				
< Back OK Cancel				

20. Click OK to close the Success window.



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

Configuring UI-View

- 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 \rightarrow Control Panel \rightarrow 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.

UI-View32	
A	Please read the help, it's important! When you've read it, select the option again. When the 'Comms Setup' dialogue is open, you can access the help at any time by pressing F1. (Help is available in all the UI-View32 dialogues if you press F1.)
	ОК

- 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.

UI-View32	
4	Please read the help, it's important! When you've read it, select the option again. When the 'Station Setup' dialogue is open, you can access the help at any time by pressing F1. (Help is available in all the UI-View32 dialogues if you press F1.)
	ОК

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

Station Setup			×	
Callsign KG4GIY	Latitude 38.44.30N	Longitude 077.29.13₩	Locator FM18GR	
Unproto port	Unproto port Unproto address 1 WIDE2-2			
Beacon comment EC/RO PWC VA UI-View Tag 🗷				
	Beacon interval (mins)			
Fixed 30	Mobile 0	O [⊙] miles ⊖ km I	nternet 30	
Symbol Home	0'ly • 📄 🚡	Compress	ed Beacon 🕱	
GPS symbol Car	0'ly	<u>D</u> k	<u>C</u> ancel	

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 Interent 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	X
Select One Or More Servers @ aprsfl.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	Gate RF To Internet Open the gateway 🛪 Gate objects ጃ Insert station callsign 🛪 Gate Internet To RF Gate local messages 🛪 Use reverse digi path 🕱 Transmit IGATE status 🛪
APRS server log on required 🛪 Validation number Enable auto reconnect 🕱 Extra log-on text	Enable local server 🕅 Max silence 5 mins <u>Ok</u> <u>C</u> ancel

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

Ć	Select A Map				
ſ	Map Description				
	Boston Europe Great Britain Great Britain (North) Great Britain (South) Precision Mapping V7 Server South East Lincolnshire Street Atlas Virtual Map The World The World In Colour Tokyo Area (1) Tokyo Area (2)				
	Load Preview Cancel				

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



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

	Browse for Folder					
	Browse to the Precision Mapping V7 program folder					
l	Precision Mapping Streets and Trave					
	DATA1					
	DATA2					
	DATA3					
	DATA4					
٩	🎍 Images 🛛 👘					
	Pushpins 🔤					
۲	like Routes					
	Jacob States					
6	🔒 Tracks 👻					
	✓ III →					
	OK Cancel					

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.

UI-View32	-	x
?	Log on when	connected?
	Yes	No

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!