

# **SAT-TRAK FULL Install Procedure**

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## **1. File Location**

If you haven't done so already, It is recommended that you put all the initial Sat-Trak files in their own area which is the following: C:\Downloads\Sat-Trak\Install\Zip\

The initial files are the following:

Read-Me-First.txt

Sat-Trak\_Install\_Procedure\_v3.02.pdf

Sat-Trak-v3.0.zip

Sat-Trak-v3.0.exe

If you like, you may start the install process from anywhere and Sat-Trak will create these folders for you. After that, you can then move the above files to their proper location.

It is also advisable to print out the Full-Instruction.pdf file to follow along with the install process. Then double click on Sat-Trak-v3.exe to start the install process.

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## **2. Software Installation**

1. Double click on Sat-Trak-v3.exe to start the install process.
  2. As the Installation Suite starts, a Welcome Screen appears. Read it and click Next.
  3. The License Agreement then appears. Read it, click on Yes, then click Next.
  4. The initial Read-Me file then appears. Make sure you've done what it asks you, then click Next.
  5. Enter your User Info - Name and Company (optional), then click Next.
  6. Confirm Setup Settings and then click Next.
  7. All files will now be copied to their correct location.
  8. At the end, another installation will run to install the "Signal Strength Meter". Click Next.
  9. Accept the license agreement, click Next, and enter user name and other info. Click Next.
  10. Now, depending your laptop, you'll probably just need to click Next, then Install, then Finish.
  11. Now as you click Finish for the 2<sup>nd</sup> time, read the Read-Me file and do what it says.
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## **3. Files & Folders Installed**

After the above step of this installation is completed, you should have 10 new folders with subfolders in them. Let's go down the list and explain each one, so we become familiar with them. These folders are located here: C:\Downloads\Sat-Trak\Install\

- |         |   |  |
|---------|---|--|
| 9555    | - | This folder contains the drivers for the Iridium 9555 Sat Phone. It also contains an extra PDF instruction file for installing these drivers.  |
| Adobe   | - | Just in case you don't have a PDF reader on your computer this folder provides the install program for Adobe Reader. This is if decide you to dig deeper into the Iridium PDF installation documents provided with the Iridium software. |
| Folders | - | This folder holds all the files for your Sat-Trak program group on your desktop. This folder will be copied to the root of the C Drive.  |

- Instructions - This folder contains the license, the readme files and the Full Instruction files.
  - IO-Gear - This is the software drivers for your USB to Serial cable. This is needed for the Iridium 9505A Sat-Phone on a laptop with no DB9 serial port, and only USB ports. This is not needed if you are using the Iridium 9555 Sat Phone.
  - Iridium - This folder contains all the Iridium software to make your laptop work with the Iridium Sat Phones.
  - PHP5 - This folder contains the PHP programming engine that makes all the PHP scripting work. This folder will be copied to the root of the C Drive.
  - Program Files - This folder contains all the programs for all the races for the whole year. It also contains the PHP scripting to make these programs work. The sub-folder "0-IRC-TV" will be copied to your laptop's "Program Files" folder.
  - Signal - This folder contains the install program for the "Signal Strength Meter". This program is extremely handy to determine if you are in range of a satellite signal. Remember - No Signal means No Bars, which means no connection. You need three bars or better for a good connection.
  - Zip - This folder should contain your initial zip and installation files.
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#### 4. **Hardware Determination**

Now that you have installed the software to the appropriate folders, you are ready to enter phase two of the installation. Here we will finish installing and configuring the communication area of Windows XP or Vista operating systems. But first we need to ask a few questions in order to point you in the right direction of the final installation.

##### **What Model Iridium Satellite Phone do you have ?**

We support the Iridium 9505A and the newer Iridium 9555.

**If you have the Iridium 9505A**, then the next question is:

##### **Does your laptop have a DB9 serial port ?**

If it does, then you can skip the part dealing with the USB to Serial Adapter Cable. You may connect directly to this port from the Iridium Data Adapter.

If your laptop DOES NOT have a DB9 serial port, then you will have to install the Drivers for the USB to Serial Adapter Cable.

**For the Iridium 9505A you will need the following:**

1. **Iridium Data Adapter.** This is a little plastic block with a DB9 serial port, that fits on the bottom of the Sat Phone. It comes in two styles. One with a pigtail and one without. I like the one with the pigtail. This one, with the USB to Serial cable connected to it, seems to be the perfect length of cable from the phone to the laptop. If you are going directly to your laptop's DB9 serial port, then you will need a 3-6 ft. extension serial cable. You will also need this extension serial cable if you get the block without the pigtail.

2. **USB to Serial Adapter Cable.** This adapter cable allows for a connection between the Iridium Data Adapter serial port and the USB port on your laptop.
3. **Extension Serial Cable.** A 3-6 foot cable is needed if you get the Iridium Data Adapter without the pigtail extension. This cable has a male and a female DB9 connection on each end.

If you have the Iridium 9555, then all you will need is a

1. **Mini USB Cable.** Make sure it is long enough to fit your situation. They come in various lengths and can be gotten at any computer supply store. This cable has a regular USB plug on one end to plug into your laptop. On the other end is a Mini USB plug specially made for phones, cameras, PDA's and the like.

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## 5. **Sat-Trak, Iridium & Windows Setup**

Now that you have the hardware listed above, lets get started with the configuration of Windows. This is the technical side of the installation, but as long as you follow the installation instructions correctly, anyone can do this.

There are five (5) steps to this next process. They are:

- |     |   |           |    |
|-----|---|-----------|----|
| 1a. | Installation & configuration of the Iridium 9555 Phone      | Step # 6a | OR |
| 1b. | Installation & configuration of the USB to Serial Interface | Step # 6b |    |
| 2.  | Installation & configuration of the Iridium Satellite Modem | Step # 7  |    |
| 3.  | Installation of the Iridium Software                        | Step # 8  |    |
| 4.  | Configuration of the Windows Network Connections            | Step # 9  |    |
| 5.  | Configuration of the Windows Internet Options               | Step # 10 |    |

The above five steps are conveniently located in the Sat-Trak Program Group on your desktop for easy Installation and configuration. Searching through endless Windows screens is no longer necessary.

Click on the Sat-Trak Icon on your desktop, to open the Sat-Trak Program Group. A window will open with seven (7) Sat-Trak Icons in there. They are numbered 1 thru 7 in the order of normal usability.

Click on "6 Settings". Then find the Icon "Config", and click on it. Now you will see following Icons:

- 1 Device Manager
- 2 Phone & Modem
- 3 Iridium Installation
- 4 Network Connections
- 5 Internet Options

These are all the links necessary to complete the installation and configure Windows.

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### 6a. **Installation & configuration of the Iridium 9555 Phone**

The installation of the 9555 Phone is the same throughout these instructions except that you skip

the next step # 6b. The 9555 Phone uses it's own standard Mini USB cable and doesn't use the USB to Serial Adapter Cable that is used for the 9505A Sat Phone. After installing the 9555 USB drivers, you then go directly to step # 7, and continue to the end to step # 10.

There is a special PDF file called "9555 USB Driver Installation.pdf" located in the folder: **C:\Downloads\Sat-Trak\Install\9555**. Click on this file for full installation instructions for the 9555 USB driver. Remember also that the driver folder location that is referred to in the instructions is actually now located here: **C:\Downloads\Sat-Trak\Install\9555\VCOMPORT** Please make a note of this driver folder location when doing the install.

Remember also, if you don't have a way to view this 9555 PDF instruction file, you can do a quick install of Adobe Reader from the folder location C:\Downloads\Sat-Trak\Install\Adobe\ Double click on the file rp500enu.exe to start the installation of Adobe Reader.

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#### **6b. USB to Serial Adapter Installation - (For the Iridium 9505A Phone)**

Although there are other USB to Serial adapter that work, we recommend the IOGEAR GUC232A USB to Serial Adapter. This one has been tested and works very well with the Iridium Sat Phones. Now Lets get Started !

Pick a USB port on your laptop that you want to use the with the Iridium Sat Phone. Remember once you designate the location of the port as the one you want to use, the USB to Serial Adapter will not work in any other port location unless you do a complete reinstall of all the software. And if you forget what port you used, the Adapter will not work unless you find the right port. So Please Mark the port so you don't forget which one you configured. If you forget and then complain about the software not working, well, this is your fault not Iridium or Sat-Trak.

Now that you have chosen the port, plug the USB to Serial cable into the USB port on your laptop. Windows needs to be up and running and preferably no other programs running either.

#### **Windows XP Installation**

1. The "Found New Hardware Wizard" window will pop up. Select - No not this time. Click Next.
2. Now select "Install from a list or specific Location (Advanced)
3. In the next window select "Don't search. I will choose the driver to install. Click Next.
4. Scroll down the list and select "Universal Serial Bus controllers". Click Next.
5. In the next window click the button "Have Disk".
6. In the next window click the "Browse" button.
7. In the file and folder search window, go to C:\Downloads\Sat-Trak\Install\IO-Gear\drivers\winxp\
8. Now select the file "SER2PL.inf", and click "Open".
9. In the "Install From Disk" window click the "OK" button.
10. In the next window select "ATEN USB to Serial Bridge" and click Next.
11. The software drivers will now install.
12. Click "Finish", and you are done installing the USB to Serial drivers.
  
13. Now lets configure the Port.
14. Click on Device Manager located in your Sat-Trak program group under "6 Settings" / "Config".
15. In the list locate the ATEN USB to Serial Bridge under Ports and double click on it.
16. The properties window should open up, then click the second tab on top "Port Settings".
17. Now change the current "Bits per second" from 9600 to 19200.
18. Now click "Advanced". At the bottom is the "Com Port Number".
19. Write this down somewhere because later you will need it when setting up the Modem.

20. OK - Now you are done configuring. Click OK to close all the screens and go the desktop.

### **Windows Vista Installation**

1. The "Found New Hardware" window will pop up. Select "Locate and install driver software".
  2. Windows Vista will try it's best to do this automatically, in the background.
  3. But if this takes too long and you don't want to wait, close this window and the next window also.
  4. Instead, go to the desktop and open the Sat-Trak program group.
  5. Click on "6 Settings". Then click on "Config". Next click on "Device Manager".
  6. Look in the list of devices for "Ports" and expand this listing if needed.
  7. Below "Ports" you will see the USB device in a yellow marker meaning no drivers yet.
  8. Right mouse click on the USB device listing and a window should open up.
  9. Left mouse click on "Update Driver Software".
  10. In the next window, click on "Browse my computer for driver software".
  11. In the next window, click on the "Browse" button.
  12. Go to C:\Downloads\Sat-Trak\Install\IO-Gear\drivers\winxp and click "OK".
  13. Now click "Next". The USB drivers will now install. When done, click "Close" or "Finish".
  14. You are done installing the USB to Serial drivers.
  15. Now lets configure the Port.
  16. Click on Device Manager located in your Sat-Trak program group under "6 Settings" / "Config".
  17. In the list locate the ATEN USB to Serial Bridge under Ports and double click on it.
  18. The properties window should open up, then click the second tab on top "Port Settings".
  19. Now change the current "Bits per second" from 9600 to 19200.
  20. Now click "Advanced". At the bottom is the "Com Port Number".
  21. Write this down somewhere because later you will need it when setting up the Modem.
  22. OK - Now you are done configuring. Click OK to close all the screens and go the desktop.
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7. **Installation & Configuration of the Iridium Modem** - This part is done through the Windows operating system software.

### **Windows XP & Vista Installation (They are both the same)**

1. Go to your Sat-Trak program group on your desktop and go to "6 Settings" / "Config".
2. The number 2 Icon is "Phone & Modem". Click on this Icon.
3. The Phone and Modem Options window now opens up.
4. If this is the first time at this, it might ask you for an area code for your location.
5. Supply and area code where you are at. Otherwise click on the "Modems" tab at the top.
6. Click the "Add" button. And in the next screen
7. Check "Don't detect my modem; I will select it from a list". Then, click Next.
8. In the next window, click the "Have Disk" button and then click "Browse" in the next screen.
9. In the file and folder search window, go to C:\Downloads\Sat-Trak\Install\Iridium\
10. Now select the file "Iridium.inf", and click "Open". Next click "OK".
11. In the next window, select "Iridium PPP Data Modem" and click "Next".
12. Now here is where you select the Com Port that you wrote down earlier for the USB adapter.
13. Select the correct Com Port and click Next. You will now get a warning screen about testing.
14. Microsoft has not tested this product, but we and Iridium have, and it works just fine.
15. Click "Continue Anyway". The Modem is now being installed. Click Finish on the next screen.
16. Now lets configure the Modem.
17. With the Phone and Modem window still open, select the Iridium Modem and click "Properties".

- 18 This might take a minute, but now click on the "Advanced" tab at the top.
  - 19 In the Text Box where it says, "Extra initialization commands" enter the string on the next line:
  - 20 **AT+CBST=71,0,1**
  - 21 Click OK to close the Modem Properties window. And Now
  - 22 Click OK to close the Modem Options window.
  - 23 You are done configuring the Modem. Now go back to your desktop.
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## **8. Installation of the Iridium Software** - This installation part is pretty much automated.

1. Go to your Sat-Trak program group on your desktop and go to "6 Settings" / "Config".
  2. Iridium Installation is the 3<sup>rd</sup> Icon. Click on this Icon and the installation will start.
  3. The "Iridium Direct Internet 2.0" Welcome Window now pops up. Click Next.
  4. You can skip Iridium's Install Instructions, so just click Next.
  5. If you get an error that windows doesn't know how to open the file "Template.ins", Click "Cancel".
  6. The next screen is another Iridium Setup Welcome Window. Click Next.
  7. Next is the License Agreement. Read and click the check box at the bottom and click Next.
  8. The destination location window is next. Confirm and click Next.
  9. The Iridium Software will now install. In the next installation completion window, click "Finish".
  10. The next window will advise you to restart your computer. Click "OK" to restart.
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## **9. Configuration of Network Connections - Dial-Up Networking** - This part is done through the Windows operating system software.

### **Windows XP Installation**

1. Go to your Sat-Trak program group on your desktop and go to "6 Settings" / "Config".
2. Network Connections is the 4<sup>th</sup> Icon. Click on this Icon.
3. The Network Connections window now opens up.
4. Observe if you have any dial-up connections. We will be adding a new dial-up connection here.
5. Somewhere on the page, probably near the bottom is the "New Connection Wizard" Icon.
6. Double click on this Icon, and click Next in the window that opens up.
7. Select "Connect to the Internet" and click Next.
8. Select "Set up my connection manually" and click Next.
9. Select "Connect using dial-up modem" and click Next.
10. If a "Select a Device" window appears, check the box next to "Standard 19200 bps Data Modem", and uncheck all other devices. Click Next.
11. Enter the connection name (3-Internet Connect) and click Next.
12. In the Phone Number box, enter **008816000025** and click Next.
13. A username and password are not needed.
14. Check the box next to "Use this account name and password when anyone connects to the Internet from this computer".
15. Check the next box next to "Make this the default Internet connection".
16. Click Next.
17. In the next screen, check the box next to "Add a shortcut to this connection to my desktop".
18. Click "Finish". We will configure the connection in a moment, but first, there is one more step.
19. This new connection shortcut, that was just added on the desktop, will replace the existing (3-Internet Connect) shortcut in the Sat-Trak program group on your desktop. Click on the Sat-Trak Icon on your desktop. This will open the Main Sat-Trak program group window. Locate the (3-

Internet Connect) Icon there. Now locate the New (3-Internet Connect) Icon you just created on the desktop. They should both have the same name. Now delete the one in the Sat-Trak program group and replace it by moving this Newly created one from the desktop in it's place. This new Icon is the active one, where as the old one you just deleted, was inactive.

19. Now lets configure the Connection.
20. There should still be a connection window open for this new dial-up.
21. If it is not open, then just double click on the New (3-Internet Connection) Icon in your Sat-Trak Group.
22. Click "Properties".
23. At the bottom you should check the box next to "Show icon in notification area when connected".
24. Now, near the top right, click the "Configure" button.
25. Maximum speed should be set at "19200".
26. Under Hardware features the next two boxes should be checked "flow control" & "error control".
27. Click "OK".
28. Now Click the Options tab at the top.
29. In this window, uncheck all boxes except the top one "Display progress while connecting".
30. Under Re-dialing options change Redial attempts to zero (0).
31. Now click the Networking tab at the top.
32. Make sure "Internet Protocol (TCP/IP)" is checked. Uncheck all other components.
33. If some check-boxes don't uncheck, like "QoS", that's ok
34. Click the "OK" button at the bottom.
35. Observe the new dial-up connection that you just made under the "dial-up" section.
36. Close the connection window.

## Windows Vista Installation

1. Go to your Sat-Trak program group on your desktop and go to "6 Settings" / "Config".
2. Internet Options is the 5<sup>th</sup> Icon. Click on this Icon.
3. The Internet Options window now opens up.
4. Now Click the Connections tab at the top.
5. Click the "Setup" button.
6. If the next window says "You are already connected to the Internet", click on "Set up a new connection anyway".
7. In the next window, click on the selection "Dial-up"
8. In the next window, click on the selection "Iridium PPP Data Modem".
9. In the next window, in the phone number box enter, **008816000025**
10. Skip the next two text boxes. A username and password are not needed.
11. In the box where it asks for "Connection Name" enter "3 Internet Connect" (with no quotes).
12. It is advisable to NOT Check the next box, "Allow other people to use this connection". An Error Might Result.
13. With your Sat-Phone turned on and connected to your laptop, click the "Connect" button at the bottom.
14. If you don't have your sat phone connected, the next window will say "The test was unsuccessful". At this point, hit cancel and make sure your Sat Phone is turned on and connected properly.
15. When connected properly and clicking the "Connect" Button, you should see your Sat Phone say, "Data Call In Progress" in the Sat Phone window.
16. Windows should go through a series of screens starting with, Dialing 008816000025, then Verifying user name and password, then Registering your computer on the network, then Authenticated, then Connected..
17. When the next window pops up, "You are connected to the Internet" Click "Close".
18. In the next window "Set Network Location", choose Home or Work.

19. The final window after this should be, "Successfully set Network Settings". Click "Close".
  20. We will configure the connection in a moment, but first, there is one more step.
  21. Keep the "Internet Properties" window open, but somewhere in the background, the "Sat-Trak program group should still be open. Go to "6 Settings" / "Config".
  22. Now double click on the Icon "4 Network Connections".
  23. In the next window you should see the Icon "3 Internet Connect".
  24. With the left mouse button, drag this Icon to the desktop.
  25. Press the function key "F2" to edit this Icon label. It should say "3 Internet Connect".
  26. This new connection shortcut, that was just added on the desktop, will replace the existing (3-Internet Connect) shortcut in the Sat-Trak program group on your desktop. Go back to the main window in your Sat-Trak program group. Locate the (3-Internet Connect) Icon there. Now locate the New (3-Internet Connect) Icon you just created on the desktop. They should both have the same name. Now delete the one in the Sat-Trak program group and replace it by moving this Newly created one from the desktop in it's place. This new Icon is the active one, where as the old one you just deleted, was inactive.
  27. You should now go back to the "Internet Options" window. At this point, you can proceed to the next section, right below, to item # 5, where we will finish the "Internet Options" Configuration.
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#### **10. Configuration of Windows Internet Options - (This is the same for both XP & Vista)**

1. Go to your Sat-Trak program group on your desktop and go to "6 Settings" / "Config".
  2. Internet Options is the 5<sup>th</sup> Icon. Click on this Icon.
  3. The Internet Options window now opens up.
  4. Now Click the Connections tab at the top.
  5. The "Settings" button should be the 4<sup>th</sup> one down on the right. Click on this button.
  6. Check the first box "Automatically detect settings". Click "OK". This window now closes.
  7. You should see the dial-up connection that you just made in the square box, in the first window.
  8. This connection that you just made "3 Internet Connect", should be set to default.
  9. To make sure your laptop always dials the Sat-Phone, select "Always dial my default connection".
  10. If you want to sometimes use your laptop with a Broadband connection during the race, select "Dial whenever a network connection is not present".
  11. After the race is over, you may want to set this setting to "Never dial a connection", so your laptop doesn't go searching for the Sat-Phone that is no longer connected to it.
  12. But if you have a wireless card installed, you may now want to make your wireless card the default connection and change your setting to "Dial whenever a network connection is not present".
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#### **11. Congratulations !! You Are Now Done With The Installation.**

For more instructions on how to use the Sat-Trak Program, please go to the main window of your Sat-Trak program group on your desktop, and click on the "7 Help" Icon. Right mouse clicking on this Icon, and selecting "Open with" "Wordpad" is the best way to view this help file.

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#### **12. Testing & Final Setup**

1. Now that you have completed the installation, let's do a little test to see if it works ?
  2. Go to your Sat-Trak program group on your desktop and go to "6 Settings".
  3. There you will locate the Icon "4 Test Update". Click on this Icon.
  4. The black Command Window will open up, and
  5. In a flash, most of the window will fill with white scripting and then disappear very quickly.
  6. If you blink, you could miss it.
  7. This is a good sign. It says that you downloaded your first bunch of data.
  8. Now lets check to see if it really did do what it was suppose to do.
  9. Hit the back button in the Sat-Trak program group window and click on "2-IRC-TV Folder".
  10. There will be a file called "follow.txt". You've just updated this file. It should have the current date and time attached to it, in the right of the window. If it is the current time -  
You're Good To GO !!!
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### **13. Registration**

1. Now that you've achieved "Rock Start Status" and believe me, if you've made it through this far and you were successful in the last step, "My Hat Is Off To You !" This is quite an accomplishment for the average computer user, but now you'll be able to feel the Power of you've just done. You've put together a "Mobile Tracking System" that was unheard of 3 or 4 years ago. Sat-Trak has been in development for the last three years and this version is better than ever !! Again Congratulations !
  2. So, back to registration. Sat-Trak is very powerful but it won't do much unless you have the back-end server support to feed you the exact data you need. And that's where filling out an Order Form with all the required info, plus billing information is definitely needed to complete this tracking package.
  3. Go to RaceTheWorld.net, and on the menu, under products, select Sat-Trak, and this will take you to the Sat-Trak info page. But you already know this if you have this program in front of you. But for those that don't know this, there you will find the order forms, downloads and support phone number to call. We'll Support You ! Thanks for supporting us !
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### **13. Sat-Trak Tips**

1. An External Antenna is always recommended over the standard telescoping one that comes with the Iridium Sat Phone. You'll get twice the coverage.
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