How to get your GPS to work for CDMA Blackberry's V3.0 Apr 13, 2009

First thing you should try is ##000000 Send. If you get into the Programming screen your good to go. No need to read any further go to Step 2 unless you get the "Invalid Password" popping up on your BB's screen.

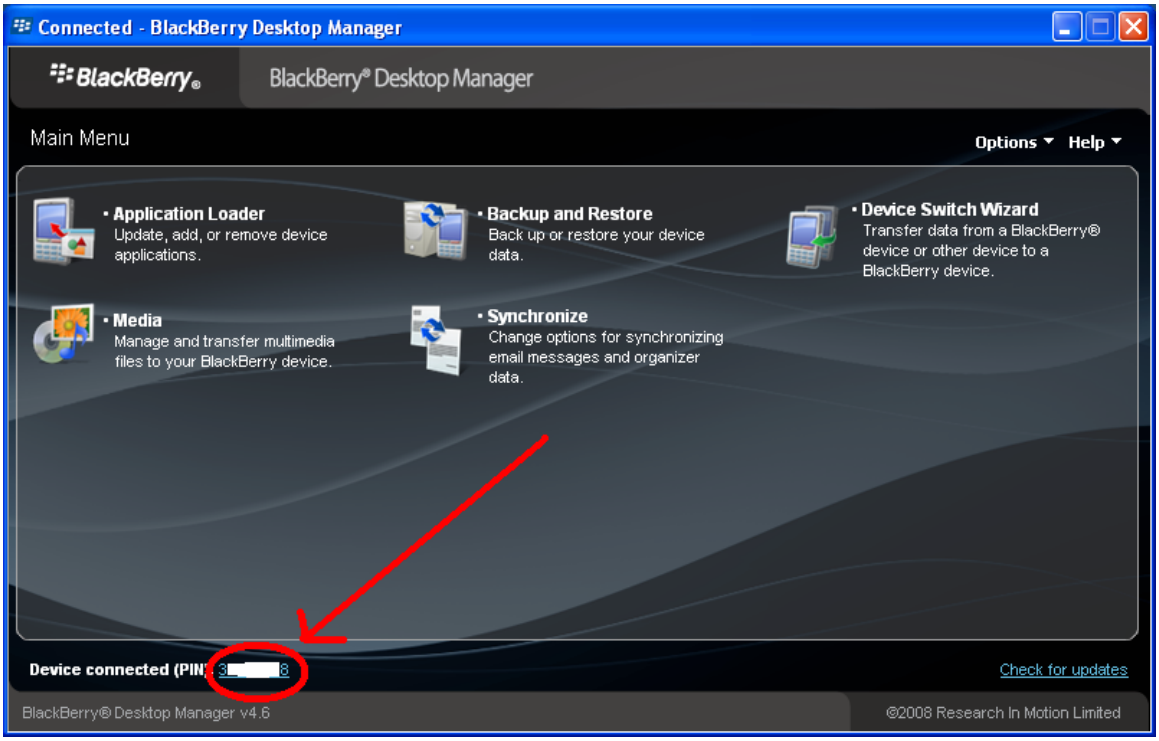
Step 1 Get your SPC

Install BlackBerry Desktop Manager (use google to find it)

Install UniCDMA (use google to find it) or you can use CDMA Universal. (Thanks adiabatic) As it "actually allows COM# 1-20 and doesn't require us to change ports in Device Manager" The steps should be the same. For this guide I used UniCDMA

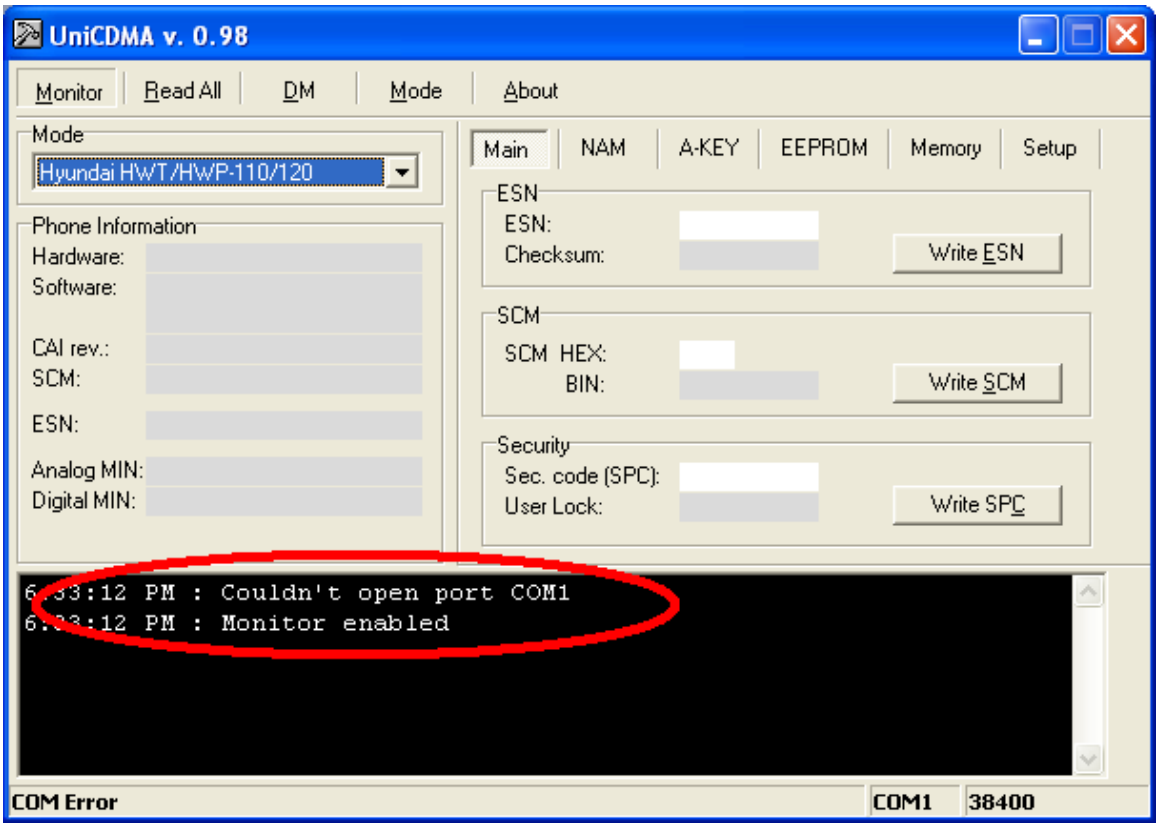
Install WinHex_v14.9 (includes KeyGen) (use google to find it)

BlackBerry Desktop Manager will create two Virtual Ports that we will look at later.
Make sure you can connect to the BlackBerry Desktop Manager. You should see your PIN in the bottom left corner.

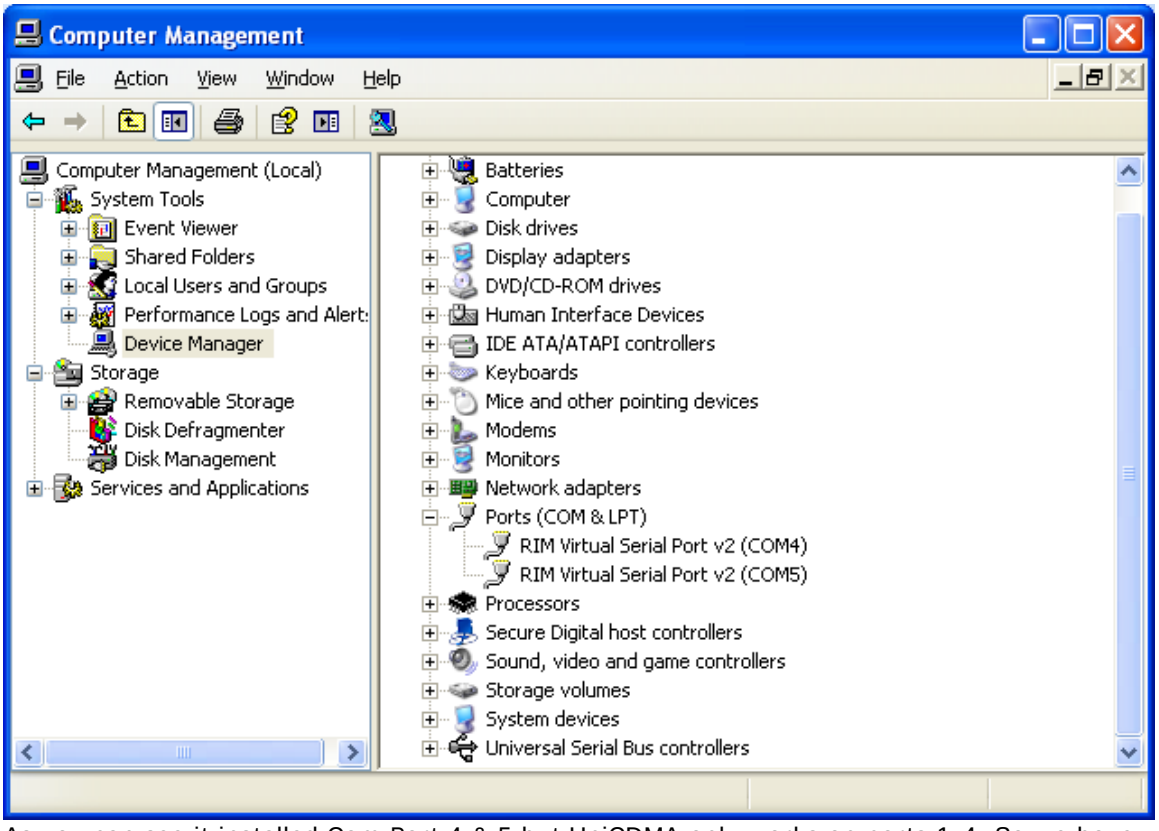


Now just minimize (do not close) the BlackBerry Desktop Manager.

Next open UniCDMA. And see if you get a port error

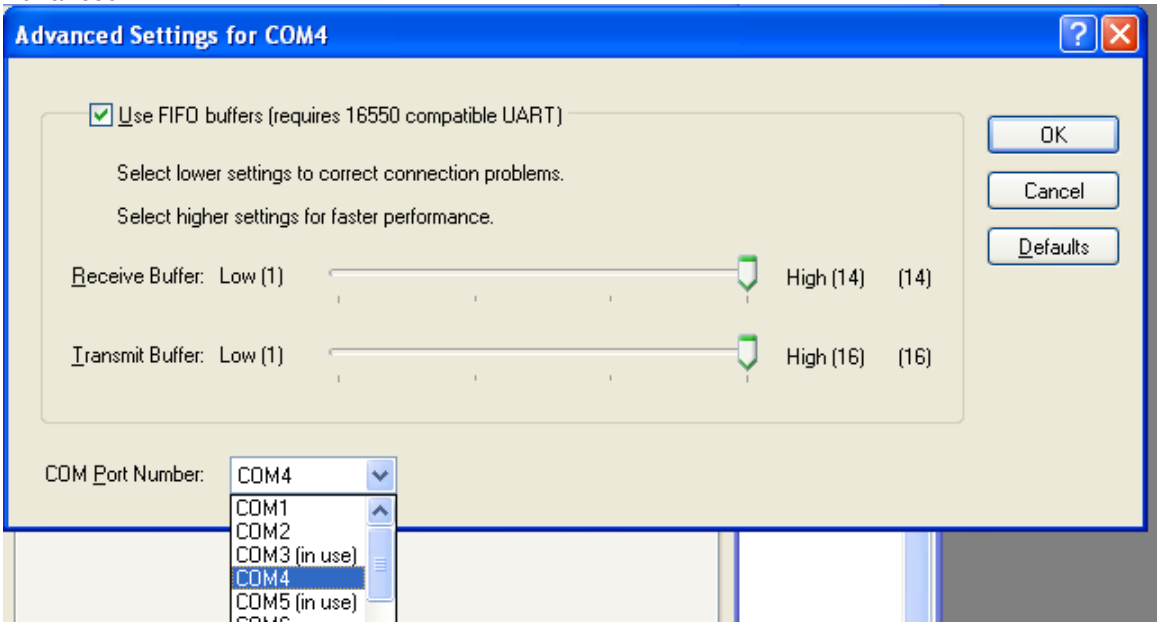


Let's look at what ports that BlackBerry Desktop Manager installed. Go to Device Manager and look at Ports.

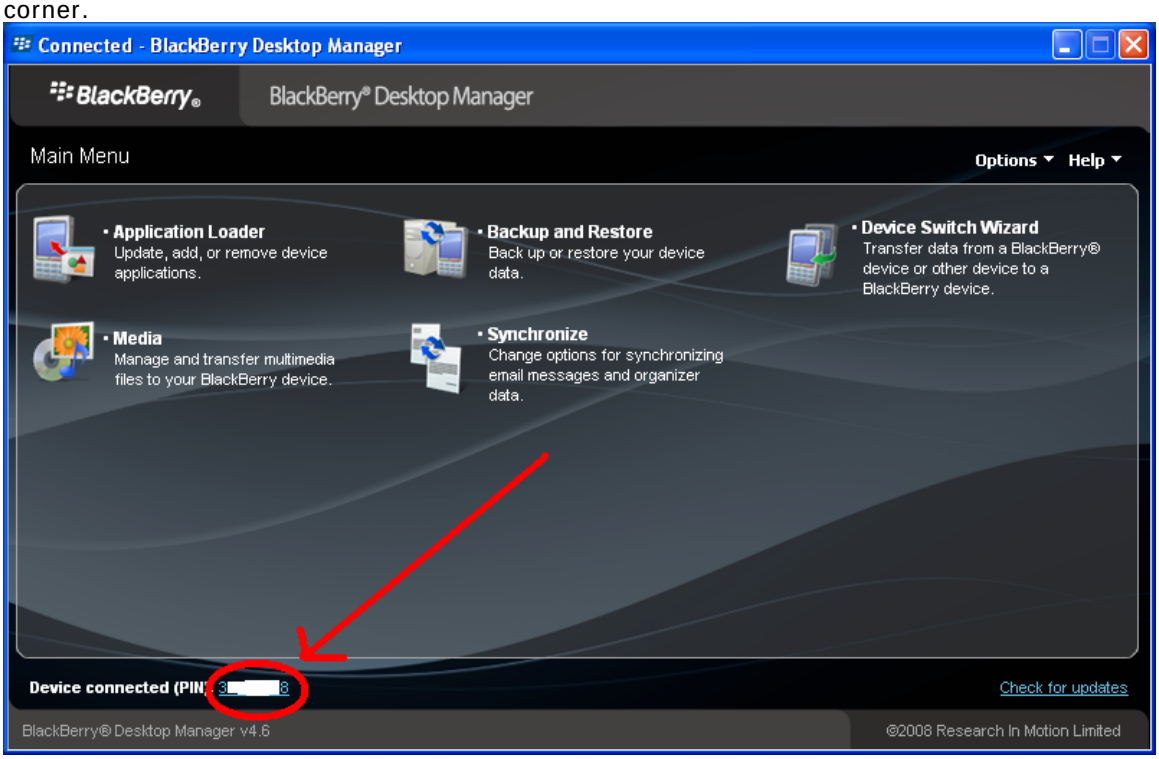


As you can see it installed Com Port 4 & 5 but UniCDMA only works on ports 1-4. So we have to change the port number by right clicking the first one (COM4 in this example) and then selecting Properties.

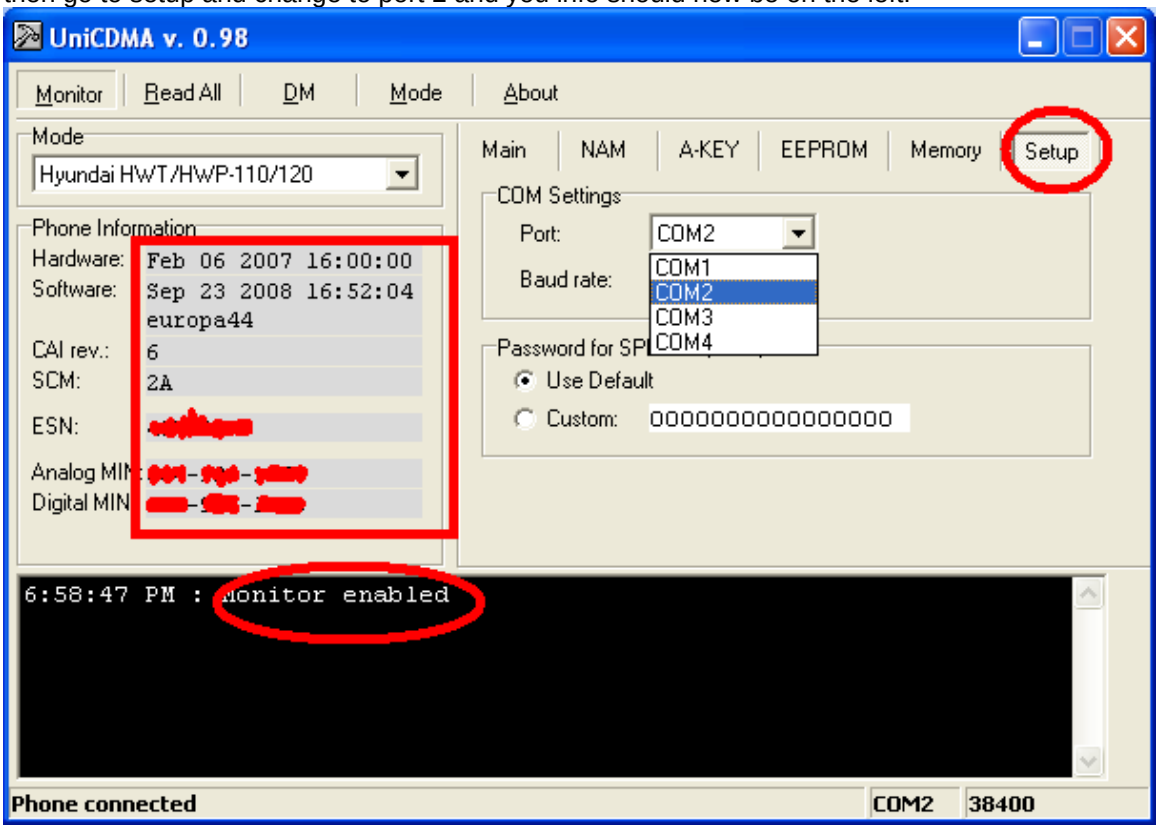
In the new window select Port Settings, and then select Advanced



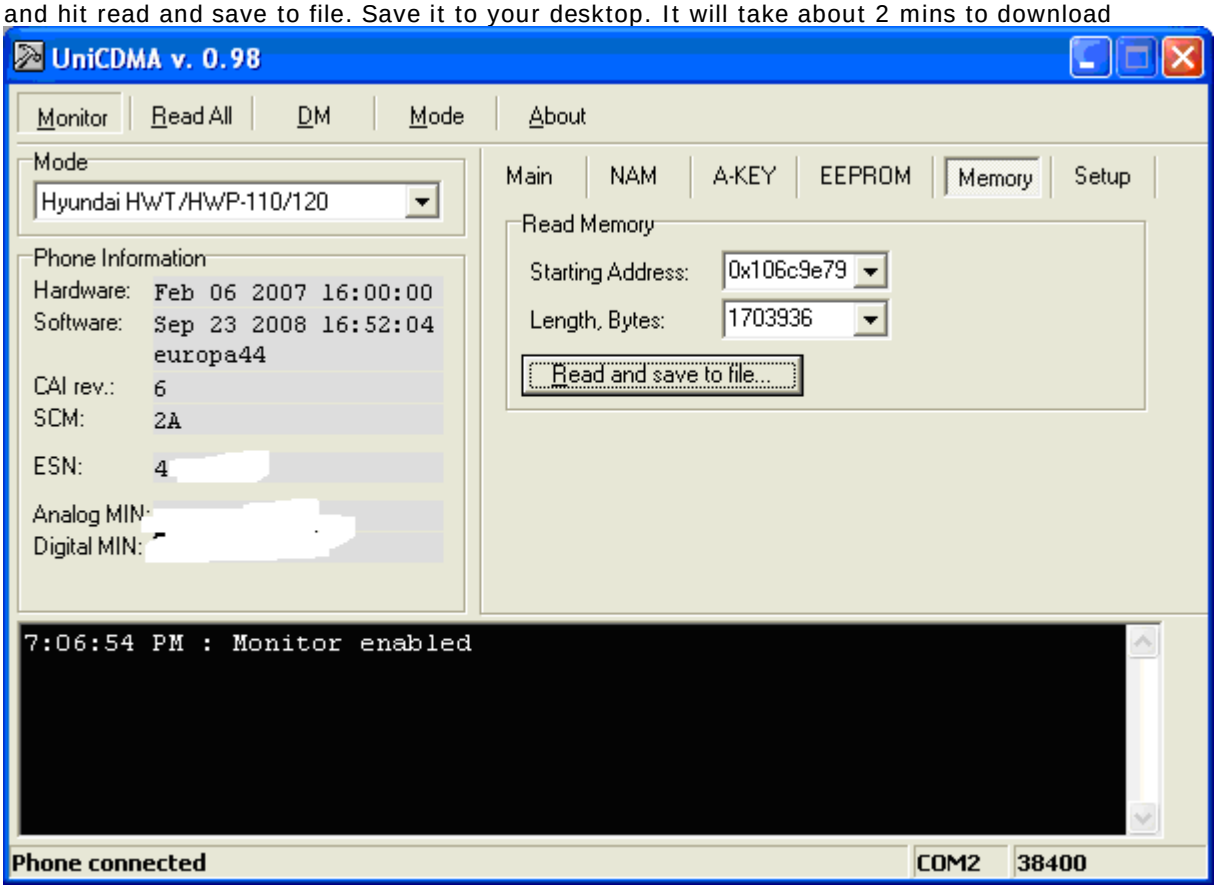
Make Note of the original port numbers as its best to change then back after. Change them to Port 1, 2, 3, or 4 it does not matter what one. DO this for the two RIM Ports and then reboot your computer and start up BlackBerry Desktop Manager and connect your BB. Make sure you can connect to the BlackBerry Desktop Manager. You should see your PIN in the bottom left corner.



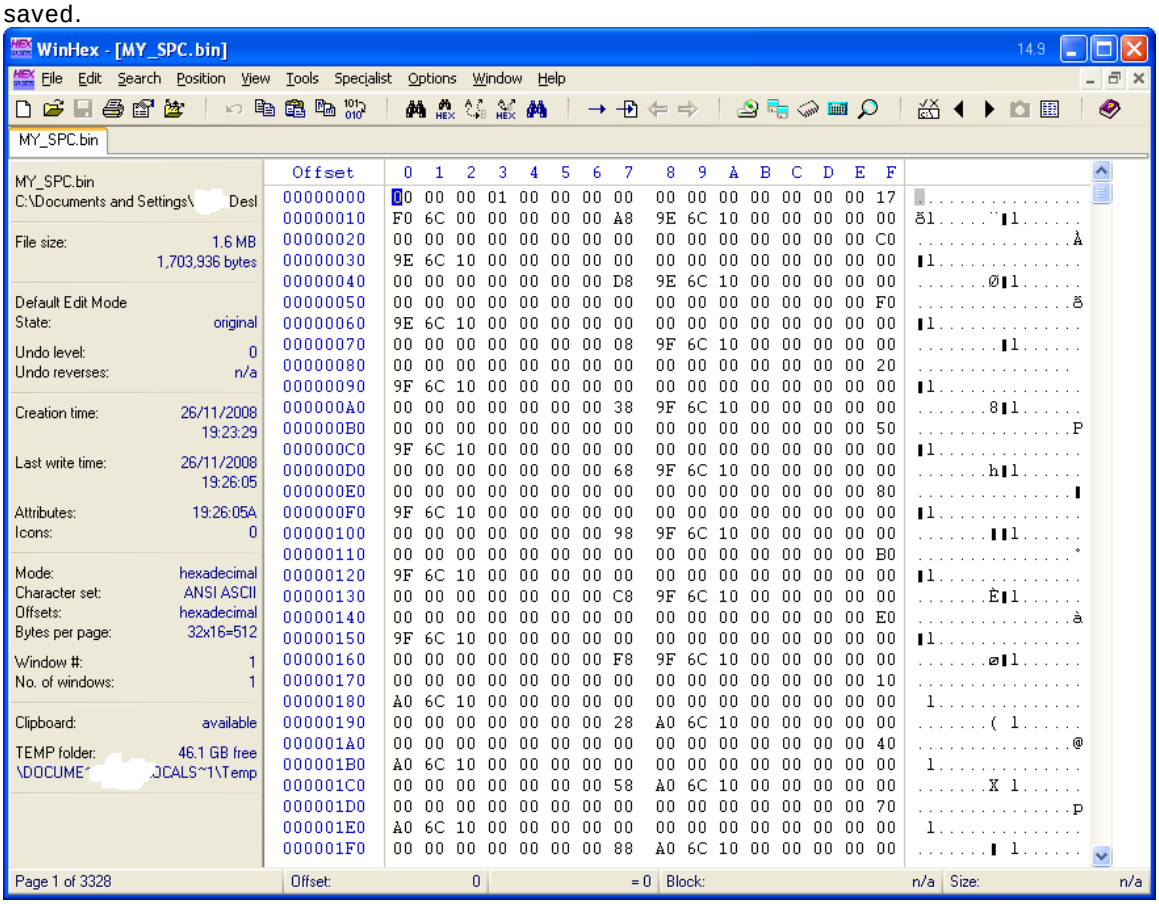
Now you can Open UniCDMA you should not have the port error and if your info is not on the left then go to setup and change to port 2 and you info should new be on the left.



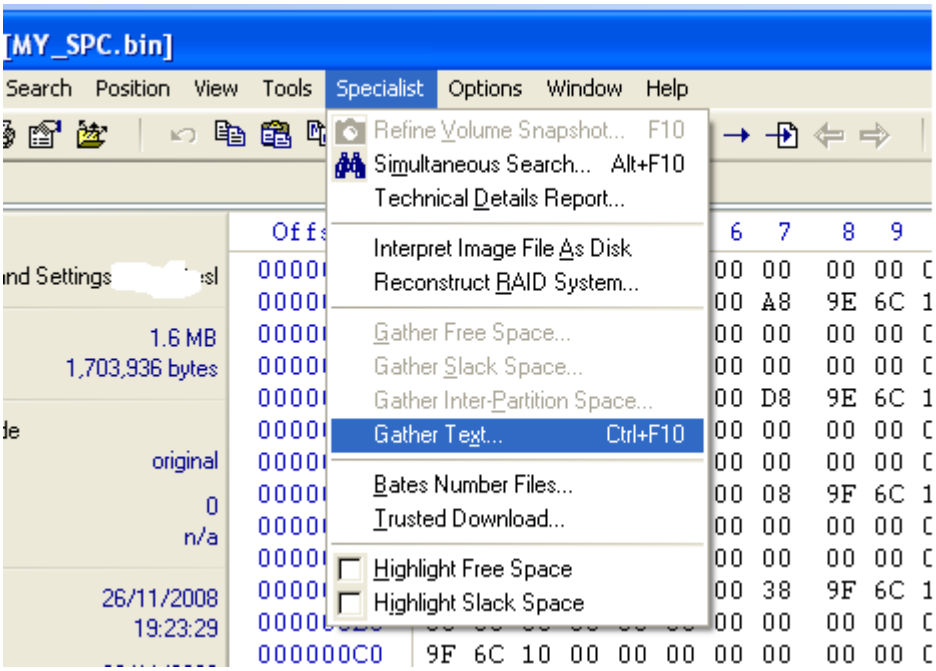
Now its time for the Memory Dump to get the SPC.
Input the address in the Read Memory section
8130 Address: 0x106c9e79 Length: 1703936
8330 (and 8330m) Address: 0x1067ed90 Length : 1703936
8830 Address: 0x10057700 Length: 524288
9530 Address: 0x17c455be Length:524288
and hit read and save to file. Save it to your desktop. It will take about 2 mins to download



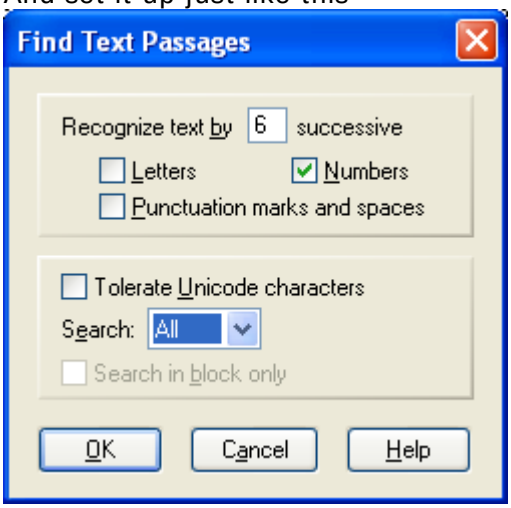
Now we get to open WinHex (make sure you open the KeyGen and register the program) Open the bin file with WinHex you just
saved.



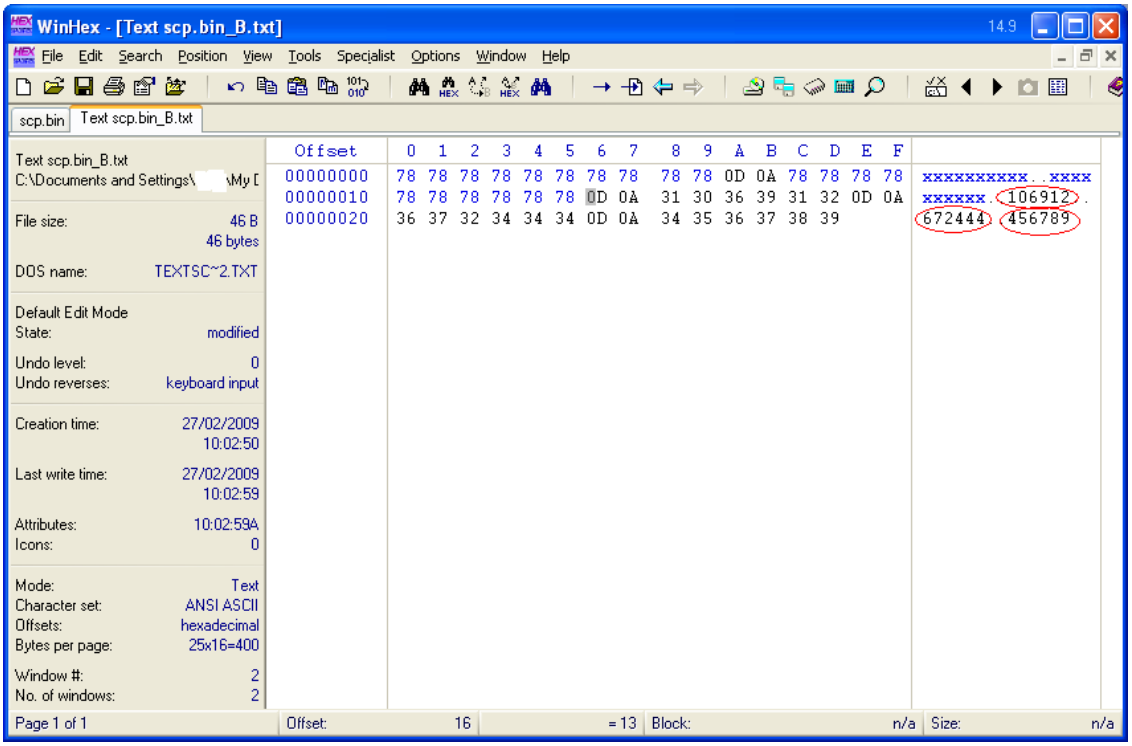
Go to SPECIALIST menu and use the GATHER TEXT feature to filter out unnecessary characters.



And set it up just like this



Now hit OK it will ask you to save the file and then what size to split it to just put 1 in that box. And now we can see our SPC It is below your phone number and is 6 digits long. You might have several possible one to try. On your BB type ##XXXXXX Send. If you get into the Programming screen your good to go. If you get the “Invalid Password” popping up on your BB’s screen try the next 6 digit combo.

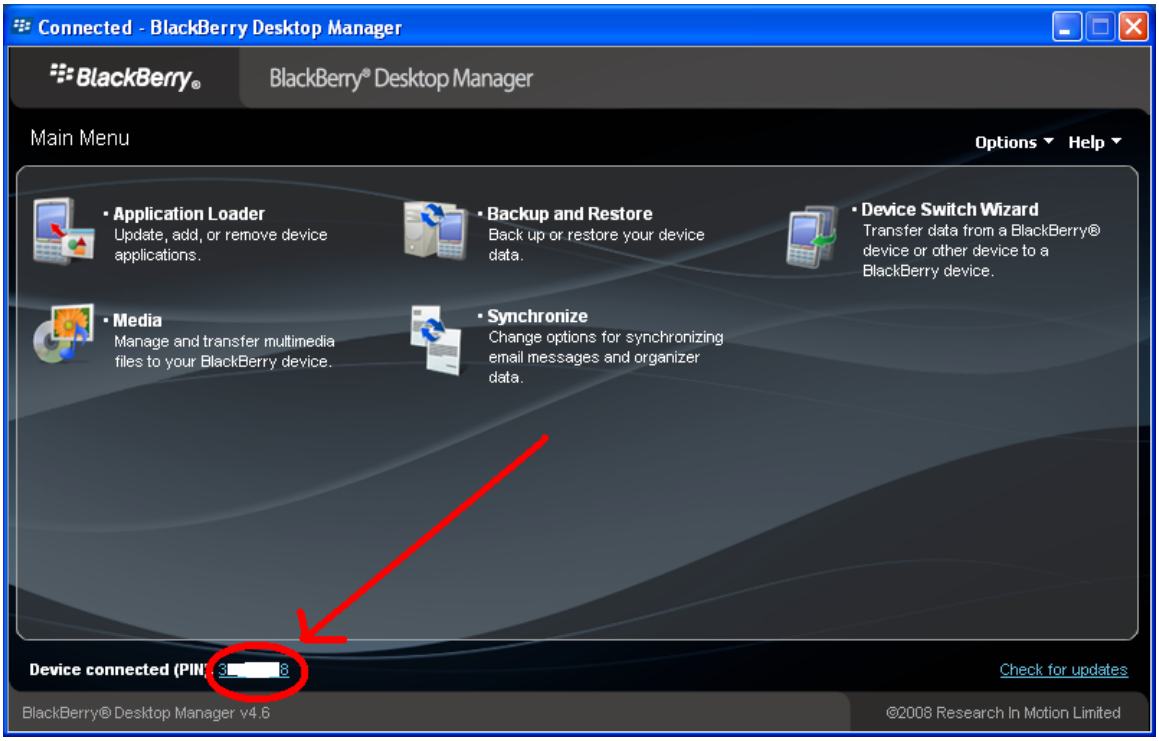


Step 2

Now you can fix the GPS with QPST. Thanks to Unibomber (use google to find it)

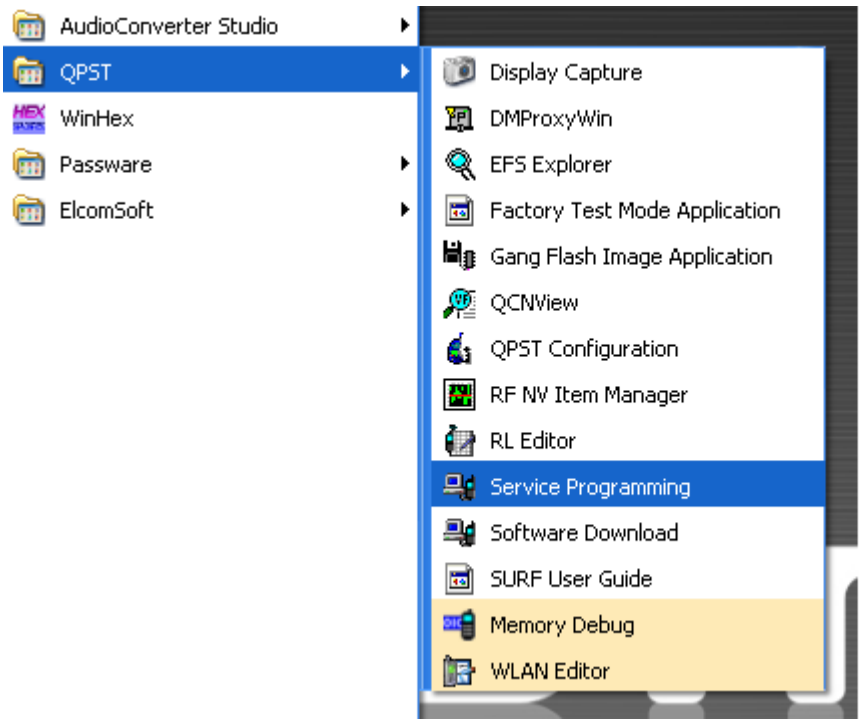
8130 use QPST 2.7 build 301 and Surf6300-BB as the base model (more on this later)
8330 (8330m) use QPST 2.7 build 215 and Surf6300-BB as the base model (more on this later)
8830 use QPST 2.7 build 301 and Surf6300-BB as the base model (more on this later)
9530 use QPST 2.7 build 301 and Surf7500-A as the base model (more on this later)

Install QPST and Plug you BB into your computer. Make sure you can connect to the BlackBerry Desktop Manager. You should see your PIN in the bottom left corner.

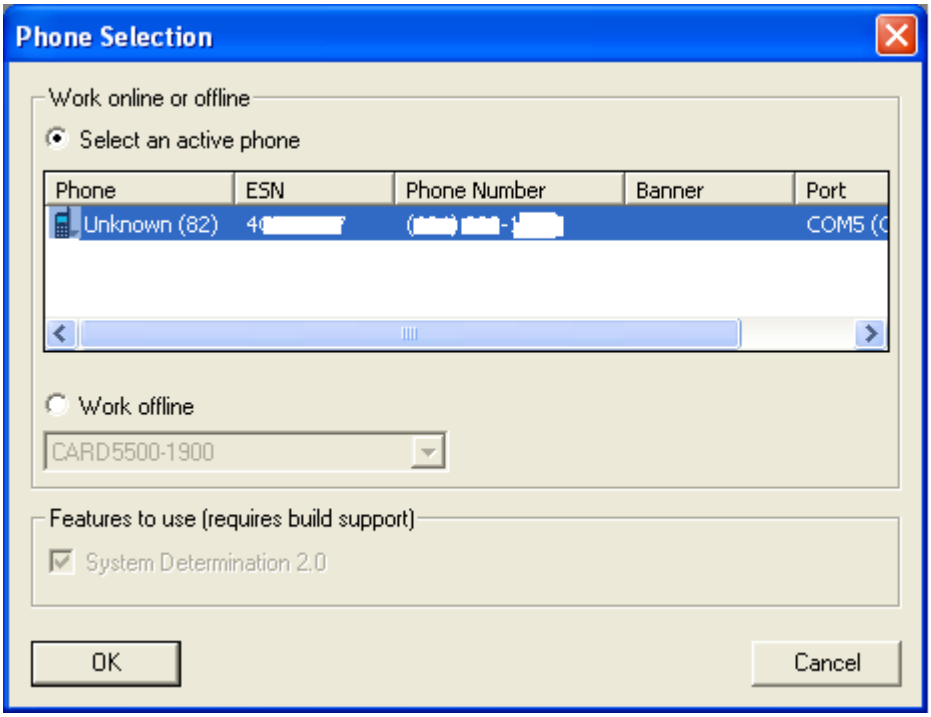


Now just minimize (do not close) the BlackBerry Desktop Manager.

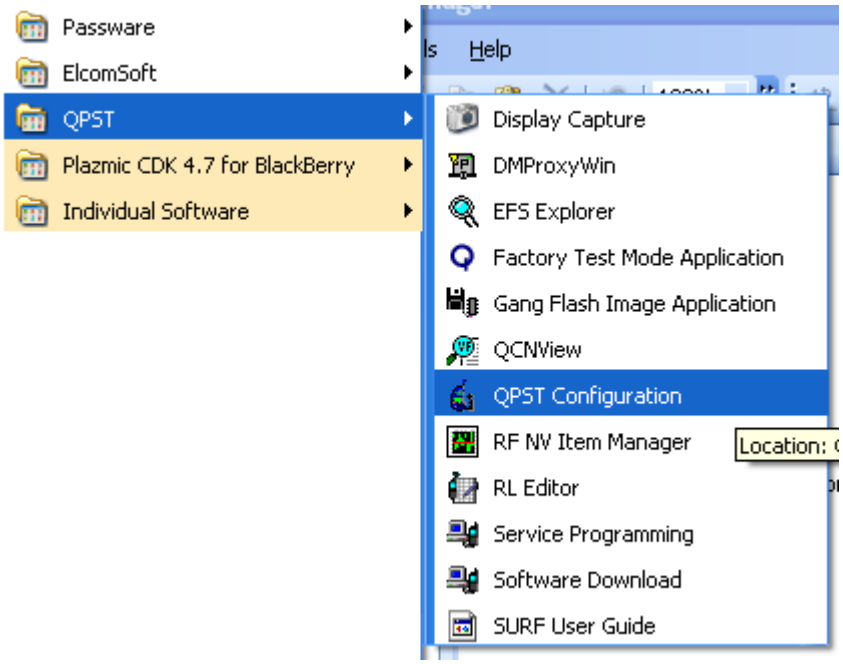
Start QPST Service Programming



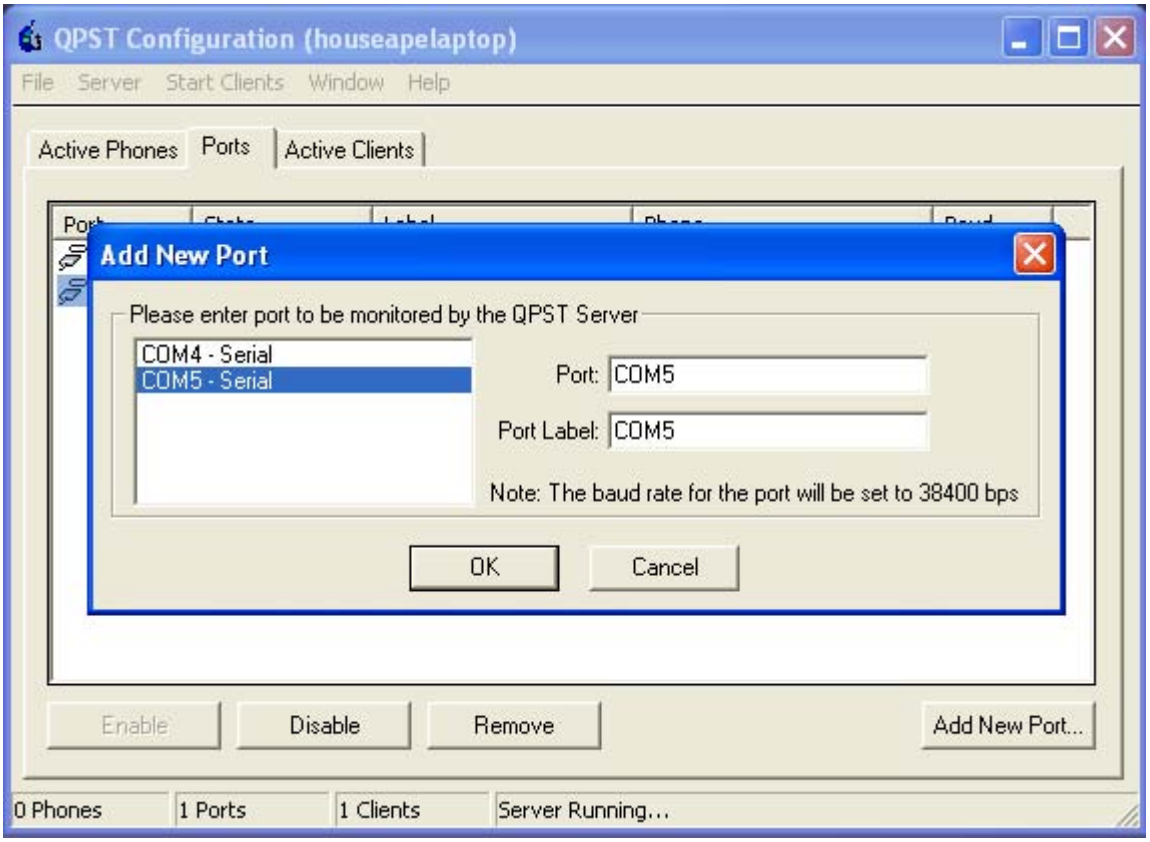
You Should See this



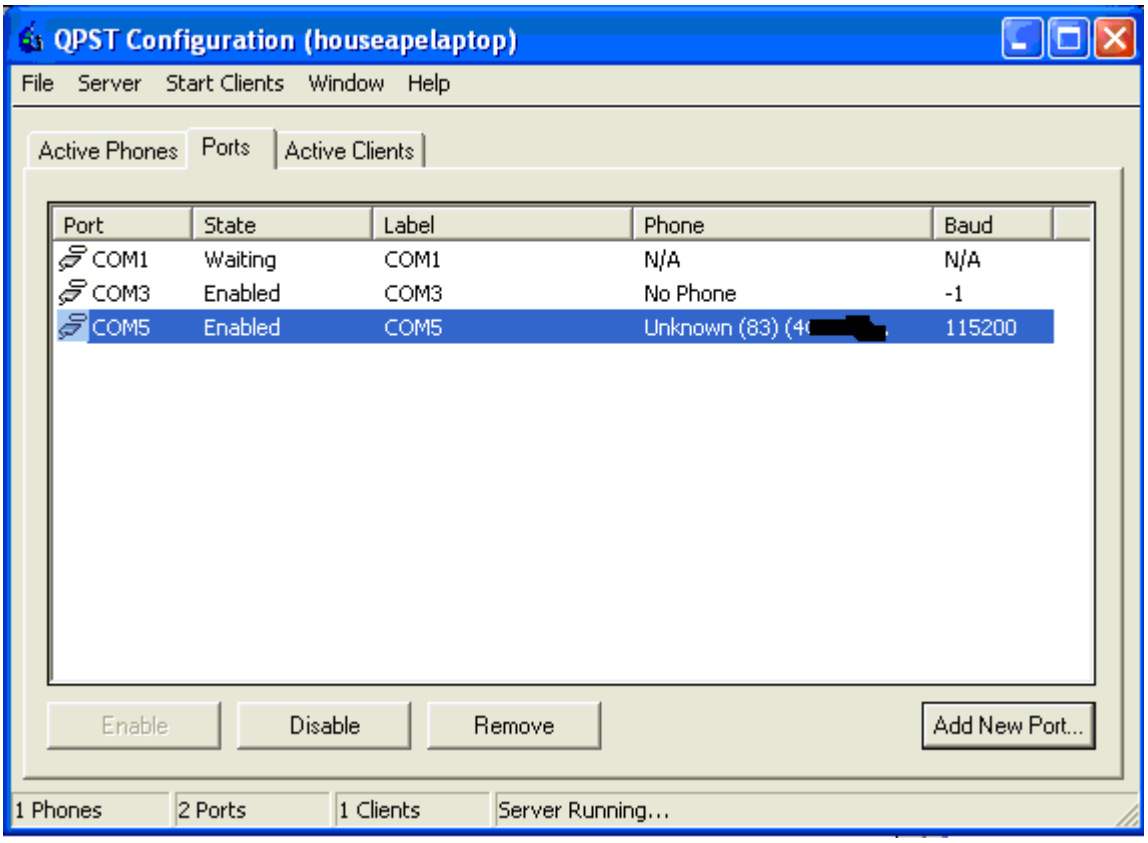
If you don't then you will need to Add the port. Press Cancel then go to QPST Configuration



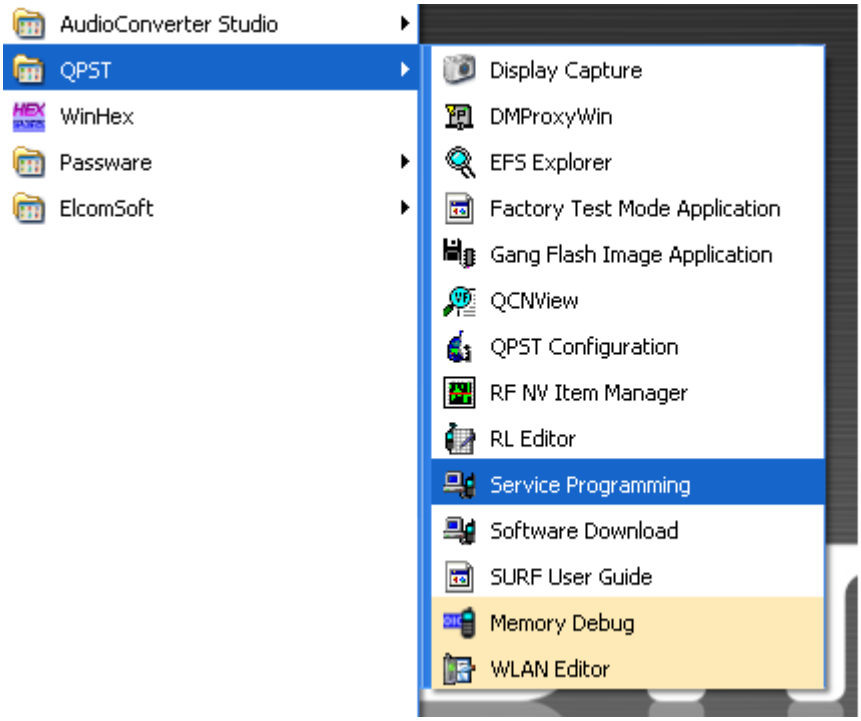
Then “Add New Port…”
Keep adding them until your phone shows up with the ESN



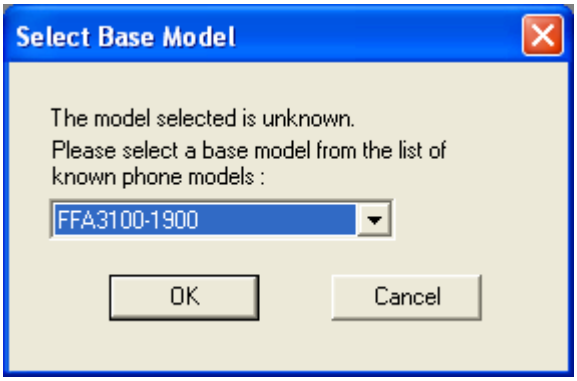
Like this. Now you can close the QPST Configuration (red X)



Start QPST Service Programming (again)

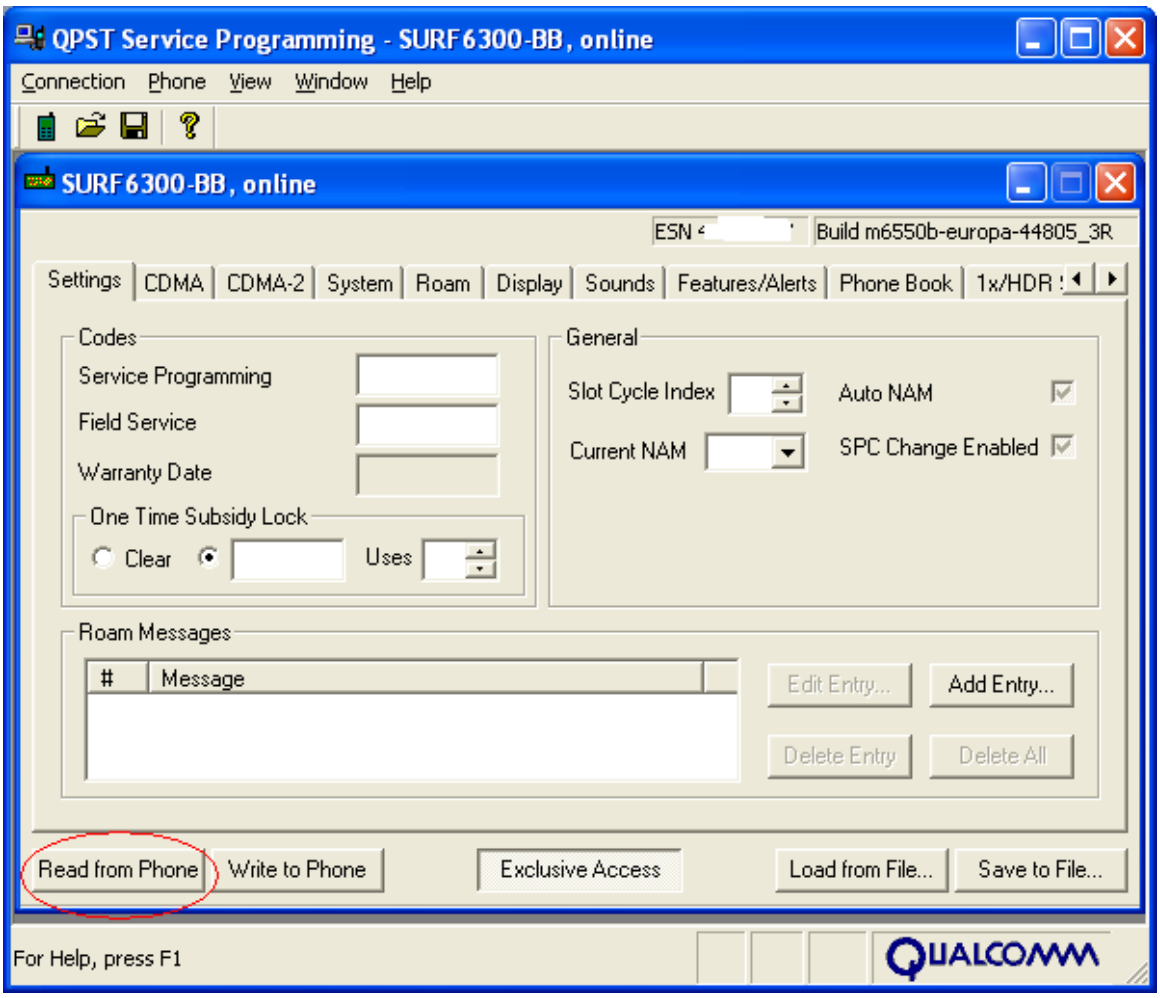


Hit OK And you should see this

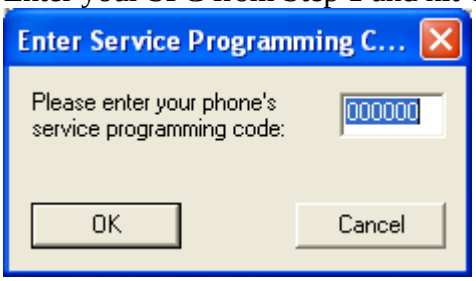


Now select the base model
8130, 8330 (8330m) & 8830 use Surf6300-BB
9530 use Surf750000-A
Hit OK

Press Read from Phone

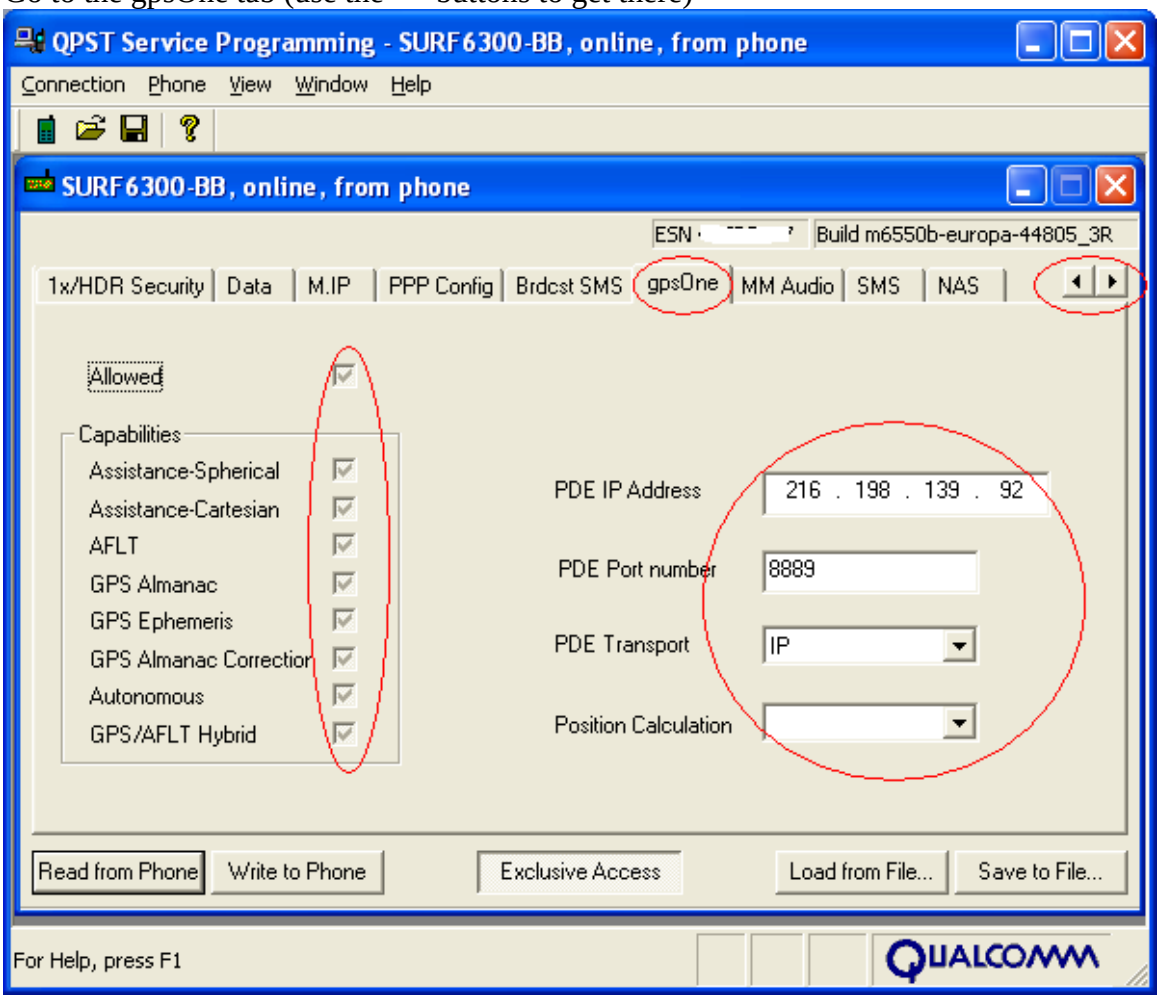


Enter your SPC from Step 1 and hit OK



My advice is to save a backup file now. Just press the “Save to File” and save the File for Backup. Name it what you want and save it where you want. To use the backup file just press load from file and then Write to phone.

Go to the gpsOne tab (use the <> buttons to get there)



Make sure everything on the left is checked off (if it's grayed out just double click) and enter the info on the right based on your carrier

Telus:
PDE IP Address = 216.198.139.92
PDE Port Number = 8889
PDE Transport = IP
Position Calculation = Mobile

Bell:
PDE IP Address: 206.47.201.75
PDE Port number: 8888
PDE Transport: IP
Position Calculation: Mobile

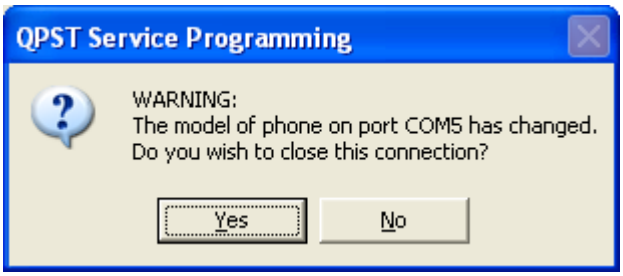
Alltel: (works for US Cellular too)
PDE IP Address = 205.142.19.100
PDE Port Number = 8888
PDE Transport = IP
Position Calculation = Mobile

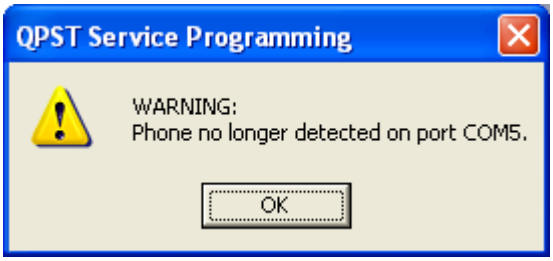
MetroPCS:
Server IP Address = 198.17.1.0
Server Port Number = 3425
PDE Transport = IP
Position Calcultation = PDE

Sprint:
PDE IP Address = 68.28.31.49
PDE Port Number = 5017
PDE Transport = IP
Position Calculation = Mobile

Verizon: (See note at the bottom)
PDE IP Address: 66.174.95.132
PDE Port number: 8888
PDE Transport: IP
Position Calculation: Mobile

Now Press Write to Phone (you are going to get an Error do not press anything yet…don't worry)





Your BB will now reboot. After it's booted up unplug it and clear all the error messages. Close QPST.

Your Done Enjoy your GPS

Special Note for Verizon Users

So what this means is that Only BB maps or VZNav will work on VZW BB's except for the Storm. So if your BB Maps works this fix will not help you.

Some Good Info

Originally Posted by **Dodge Deboulet**
The root of the issue for aGPS on VZW is that their PDEs require authentication. You can plug the server and port information into the GPS NVRAM using the software tools mentioned previously, but 3rd-party applications can't take advantage of it since they don't provide the authentication key.

That's why I'm questioning the indications of success with VZW Blackberries mentioned in earlier posts on this thread; I suspect that they're because of the specific model of Blackberry (a rare 8330 with dual-mode GPS), or the 9530 with applications specifically designed to fall back to Autonomous mode when aGPS fails.

Originally Posted by **TwinsX2Dad**
If the Curve had a higher capability GPS chip, then I'd be upset with VZW if it was locked down. But I can't blame them for trying to keep costs (and prices) down by not allowing ad-hoc access to the network from these features. As soon as the Storm came out, complete with the second true dual-mode GPS unit (Bold was first), VZW allowed its use, because it would run on pure GPS mode & not require any data other than what was already downloaded to the phone. If they were trying to keep people reigned in to VZNav, why wasn't the Storm locked as well?.