# 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

DicDMA v. 0.98		
Monitor Read All DM Mode	About	
Mode Hyundai HWT/HWP-110/120	Main NAM A-KEY EEPRON	1 Memory Setup
Phone Information Hardware:	ESN: Checksum:	Write <u>E</u> SN
Software:	SCM	
CAI rev.: SCM:	SCM HEX: BIN:	Write <u>S</u> CM
ESN:	Security	
Analog MIN: Digital MIN:	Sec. code (SPC): User Lock:	Write SP <u>C</u>
6.33:12 PM : Couldn't open po 6.33:12 PM : Monitor enabled	ort COM1	
		COM1 38400

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

Advanced Settings for COM4	? 🗙
✓ Use FIFO buffers (requires 16550 compatible UART) Select lower settings to correct connection problems. Select higher settings for faster performance. <u>R</u> eceive Buffer:         Low (1)	OK Cancel Defaults
COM Port Number: COM4	Y High (16) (16)

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.

💷 Connected - BlackBerry Desktop Manager		
BlackBerry® Desktop MackBerry® Desktop MackBerry®	anager	
Main Menu		Options 🔻 Help 🔻
Application Loader Update, add, or remove device applications.	Backup and Restore Back up or restore your device data.	• Device Switch Wizard Transfer data from a BlackBerry® device or other device to a BlackBerry device.
• Media Manage and transfer multimedia files to your BlackBerry device.	• Synchronize Change options for synchronizing email messages and organizer data.	
Device connected (PIN 3		Check for updates
BlackBerry®Desktop Manager v4.6		©2008 Research In Motion Limited

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.

UniCDMA v. 0.98
Monitor       Bead All       DM       Mode       About         Mode       Hyundai HWT/HWP-110/120       Image: Main       NAM       A-KEY       EEPROM       Memory       Setup         Phone Information       Image: Port       COM Settings       Port:       COM2       Image: Port:       COM2       Image: Port:       COM3         Software:       Sep 23 2008 16:52:04       Image: Port:       COM3       Image: Port:       COM3         CAI rev::       6       SCM:       2A       Image: Port:       COM3       Image: Port:       COM3         Password for SP       COM4       Image: Port:       COM3       Image: Port:       COM3         FSN:       Image: Port:       Custom:       000000000000000000000000000000000000
Phone connected       COM2       38400         Now its time for the Memory Dump to get the SPC.       Input the address in the Read Memory section       8130 Address: 0x106c9e79 Length: 1703936         8130 (and 8330m) Address: 0x1067ed90 Length : 1703936       8830 Address: 0x10057700 Length: 524288       9530 Address: 0x17c455be 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
MuniCDMA v. 0.98
Monitor       Bead All       DM       Mode       About         Mode       Hyundai HWT/HWP·110/120       Image: Main       NAM       A-KEY       EEPROM       Memory       Setup         Phone Information       Hardware:       Feb 06 2007 16:00:00       Software:       Sep 23 2008 16:52:04       Early Address:       0x106c9e79 Image: Ox106c9e79 Image: O
7:06:54 PM : Monitor enabled

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.

savcu.			
🚟 WinHex - [MY_SPC.bin]		14.3 🔳 🗖	×
🚟 Eile Edit Search Position View	<u>T</u> ools Spec <u>i</u> alis	t Options Window Help - 🗗	×
🗅 🚅 🗏 🎒 😭 🕍 👘 🗎	a 🛱 🖻 🚮 👬	桷 & ¼ 縦 桷   → ⊕ ⇐ ⇒   ⊉ ≒ ⊘ Ⅲ ♀   益 ◀ ▶ 凶 ⊞ │ 🧶	
MY_SPC.bin			
	Offset	0 1 2 3 4 5 6 7 8 9 Å B C D E F	-
MY_SPU.bin Ci\Decuments and Settings\Decl	0000000		
C. ADocuments and Settings V Desi	00000010	F0 6C 00 00 00 00 A8 9E 6C 10 00 00 00 00 81	
File size: 1.6 MB	00000020	00 00 00 00 00 00 00 00 00 00 00 00 00	
1,703,936 bytes	00000030	9E 6C 10 00 00 00 00 00 00 00 00 00 00 00 00	
	00000040	00 00 00 00 00 00 00 D8 9E 6C 10 00 00 00 00 00Ø	
Default Edit Mode State:	00000050		
State. Originar	00000080		
Undo level: 0	00000070		
Undo reverses: n/a	00000090	9F 6C 10 00 00 00 00 00 00 00 00 00 00 00 00	
Creation time: 26/11/2008	000000A0	00 00 00 00 00 00 00 38 9F 6C 10 00 00 00 00 00811	
19:23:29	000000B0	00 00 00 00 00 00 00 00 00 00 00 00 00	
Last write time: 26/11/2008	000000C0	9F 6C 10 00 00 00 00 00 00 00 00 00 00 00 00	
19:26:05	000000000	00 00 00 00 00 00 00 68 9F 6C 10 00 00 00 00 00hl1	
Attributes: 19-20-054	0000000000		
Icons: 13.20.00A	0000000000		
	00000110		
Mode: hexadecimal	00000120	9F 6C 10 00 00 00 00 00 00 00 00 00 00 00 00	
Character set: ANSI ASCII	00000130	00 00 00 00 00 00 00 C8 9F 6C 10 00 00 00 00 00 00È∥1	
Offsets: hexadecimal	00000140	00 00 00 00 00 00 00 00 00 00 00 00 00	
bytes per page. 32x16=512	00000150	9F 6C 10 00 00 00 00 00 00 00 00 00 00 00 00	
Window #: 1	00000160	00 00 00 00 00 00 00 F8 9F 6C 10 00 00 00 00 00æl1	
No. of windows: 1	00000170		
Clipboard: available	00000180		
	000001A0		
IEMP folder: 46.1 GB free	000001B0	AO 6C 10 00 00 00 00 00 00 00 00 00 00 00 00	
COCOME COCKES INTEMP	000001C0	00 00 00 00 00 00 00 58 Å0 6C 10 00 00 00 00 00X 1	
	000001D0	00 00 00 00 00 00 00 00 00 00 00 00 00	
	000001E0	A0 6C 10 00 00 00 00 00 00 00 00 00 00 00 00	
	000001F0	UU UU UU UU UU UU UU 88 AU 6C 1U UU UU UU UU UU UU 1 1	
Page 1 of 3328	Offset:	0 = 0 Block: n/a Size: n	/a

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

[MY_SPC.bin]										
Search Position View	w Tools	Specialist	Options	Window	v He	elp				
) 🗗 🕍 🛛 🗠	è 🛱 🖣	Refine Refine Simulta Techn	⊻olume S aneous Se ical <u>D</u> etail:	napshot arch 4 s Report	F1 Alt+F1 	10 . 10	→ -€		⇒	
	Offs	Interpr	et Image F	ile As Dis	k		6 7	8	- 9	
ind Settings	0000	Becon	struct BAI	D Sustem	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0	0 00	00	00	C
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1,703,936 bytes	0000	Gather	<u>Slack Sp</u>	ace		0	0 00	00	00	C
	0000	Gather	Inter-Parti	tion Spac	ce	0	0 D8	9E	6C	1
le	0000	Gather	Te <u>x</u> t	C	ltrl+F1	0 0	0 00	00	00	C
original	0000	_	-			— p	0 00	00	00	C
0	0000	<u>B</u> ates I	Number Fi	es		0	0 08	9F	6C	1
n/a	0000	<u>T</u> ruste	d Downloa	id		0	0 00	00	00	C
ni d	0000	🗖 Hiablia	ht Free Sr	ace		0	0 00	00	00	C
26/11/2008	0000		ht Slack C	nace		0	0 38	9F	6C	1
19:23:29	0000	C uidund				J 0	0 00	00	00	C
	0000	00C0 9	F 6C 1	0 00	00	00 0	0 00	00	00	С

And set it up just like this

Find Text Passages 🛛 🛛 🔀
Recognize text <u>by</u> 6 successive Letters <u>N</u> umbers Punctuation marks and spaces
■ Tolerate <u>Unicode characters</u> Search:   ▲II     Search in <u>b</u> lock only
<u>D</u> K C <u>a</u> ncel <u>H</u> elp

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.

🖉 WinHex - [Text scp.bin_B.txt	t]			14.9 🔲 🗖 🔀
🚟 File Edit Search Position View	<u>T</u> ools Specialist Options	; <u>W</u> indow <u>H</u> elp		_ @ ×
D 🚅 🖬 🎒 🗳 🖕 🗠 🗎	a 🛱 🛍 1012 🕴 🏟 🛱	🖧 🙀 🗎 🗕 🕂	🗢 🔿   🖄 🖶 🤝 🎟 🔎	📸 🖌 🕨 🛅 🔠 🗏 🍕
scp.bin Text scp.bin_B.txt				
Text scp.bin_B.txt C:\Documents and Settings\ \\My [ File size: 46.B	Offset         0         1           00000000         78         78           00000010         78         78           00000020         36         37	2 3 4 5 6 7 78 78 78 78 78 78 78 78 78 78 00 0A 78 78 34 34 0D 0A	8 9 A B C D E F 78 78 0D 0A 78 78 78 78 31 30 36 39 31 32 0D 0A 34 35 36 37 38 39	**************************************
46 bytes DOS name: TEXTSC~2.TXT				
Default Edit Mode State: modified				
Undo level: 0 Undo reverses: keyboard input				
Creation time: 27/02/2009 10:02:50				
Last write time: 27/02/2009 10:02:59				
Attributes: 10:02:59A Icons: 0				
Mode:         Text           Character set:         ANSLASCII           Offsets:         hexadecimal           Bytes per page:         25x16=400				
Window #: 2 No. of windows: 2				
Page 1 of 1	Offset:	16 = 13	Block: n/a	Size: n/a

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



P	hone Selection				×
	Work online or offli	ne e phone			
	Phone	ESN	Phone Number	Banner	Port
	Unknown (82)	40	(100) 100-1		COM5 (C
	<				>
	Work offline		V		
	,				
	-Features to use (re	quires build s ination 2.0	support)		
[	ок				Cancel

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

GI OPST Co File Server	nfiguration (I Start Clients W	iouseapelaptop /indow Help	)	
Active Phon	es Ports Acti	ve Clients		1
Por Add	New Port	Linkal	Dhan	
Ple	ease enter port to l OM4 - Serial OM5 - Serial	be monitored by the P	QPST Server Port: COM5 Port Label: COM5 ote: The baud rate for the port	will be set to 38400 bps
Enab	e Dis	able Ren	nove	Add New Port
0 Phones	1 Ports	1 Clients S	ierver Running	

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

Ś	QPST Con	figuration (h	nouseapelapt	op)	
Fil	le Server S	tart Clients – W	/indow Help		
ſ	Active Phones	Ports Acti	ve Clients		
	Port	State	Label	Phone	Baud
	j⊋ COM1	Waiting	COM1	N/A	N/A
	j⊊ COM3	Enabled	COM3	No Phone	-1
	SCOM5	Enabled	COM5	Unknown (83) (40	. 115200
				- 1	
_	Enable				Add New Port
1 F	hones	2 Ports	1 Clients	Server Running	11

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

📲 QPST Service Programming - SURF6300-BB, online
Connection Phone View Window Help
SURF6300-BB, online
ESN 4 Build m6550b-europa-44805_3R
Settings CDMA CDMA-2 System Roam Display Sounds Features/Alerts Phone Book 1x/HDR
Codes General
Service Programming Slot Cycle Index Auto NAM
Field Service Current NAM SPC Change Enabled V
Warranty Date
One Time Subsidy Lock
Roam Messages
# Message Edit Entry Add Entry
Delata Entry Delata All
Delete All
Read from Phone         Write to Phone         Exclusive Access         Load from File         Save to File
For Help, press F1

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)

🗣 QPST Service Programming - SURF6300-BB, online, from ph	ione 📃 🗖 🔀
<u> C</u> onnection <u>P</u> hone <u>V</u> iew <u>W</u> indow <u>H</u> elp	
SURF6300-BB, online, from phone	
ESN - TT	' Build m6550b-europa-44805_3R
1x/HDR Security Data M.IP PPP Config Brdcst SMS gpsDne M	M Audio   SMS   NAS
Allowed       Image: Capabilities         Assistance-Spherical       Image: Capabilities         Assistance-Cartesian       Image: Capabilities         AfLT       Image: Capabilities         AFLT       Image: Capabilities         AFLT       Image: Capabilities         GPS Almanac       Image: Capabilities         GPS Almanac       Image: Capabilities         GPS Almanac Correction       Image: Capabilities         Autonomous       Image: Capabilities         GPS /AFLT Hybrid       Image: Capabilities	216 . 198 . 139 . 92 8889 IP
Read from Phone         Write to Phone         Exclusive Access         Load from File         Save to File	
For Help, press F1	

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)

QPST Service Programming	
?	WARNING: The model of phone on port COM5 has changed. Do you wish to close this connection?
	<u>Yes</u> <u>N</u> o
QPST Se	rvice Programming 🔀
♪	Serious error encountered, write to phone aborted.
QPST Service Programming	
1	WARNING: Phone no longer detected on port COM5.
	[OK]

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

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?.