Setting up and using NCS Expert:

This was originally written by Junior, Mark, and Revtor on various boards. It has been modified to be specific to the E63-E64 models

First you will need NCS Expert ver. 3.1.0. It is a 96MB file zipped. It will download as a .rar file, but can be opened with WinZip or Unrar
Follow these instructions to the letter. In step 1. where it says unzip NCS Expert.rar into C:\. Do not unzip it into any other folder. The scripts are written to look for certian files in C: Unless you are an expert in rewriting scripts, do not deviate from the instructions.
The zip file actually has three programs embedded in it NCS Expertentool ver 3.1.0; INPA Loader ver 5.0.2 and EDIABAS 6.4.3

paste in your browser http://rapidshare.com/#!download|216tl|429882289|NCSEXPER.rar|100601

Over-view

- 1. Unzip "NCS EXPERT.rar" to C:\
 - a. We are looking for three folders, EDIABAS, INPA and NCS EXPERT
 - b. folders should look like this

Search Local Disk (C:)						
Organize 👻 🔭 Open	Burn New folder	8≕ ▼ 🗔 (0			
🔆 Favorites	Name	Date modified	Тур			
🧮 Desktop	🍌 downloads	10/1/2010 4:53 PM	File			
퉳 Downloads	Drivers	9/7/2010 11:05 AM	File			
💷 Recent Places	📙 EDIABAS	11/4/2010 8:52 PM	File			
	퉬 INPA	11/4/2010 8:52 PM	File			
🥽 Libraries	퉬 Intel	9/7/2010 10:51 AM	File			
Documents	NCSEXPER	11/5/2010 11:37 AM	File			
J Music	📕 OLD	11/5/2010 10:07 AM	File			
Pictures	🐌 PerfLogs	7/13/2009 10:37 PM	File			
📑 Videos	🌗 Program Files	10/1/2010 4:47 PM	File			
	퉬 Users	9/7/2010 8:27 AM	File			
🖳 Computer	J Windows	9/16/2010 2:36 PM	File			
🏭 Local Disk (C:)	🍌 working	11/4/2010 8:51 PM	File			
🔮 DVD RW Drive (D:) NEU	AtmApInit	11/8/2010 9:56 PM	Text			
	NCSEXPER	11/8/2010 10:15 PM	Win			
👊 Network	🔚 working	11/2/2010 7:52 AM	Win			
	•		Þ			
3 items selected Date modified: 9/7/2010 10:51 AM - 11/5/2010 11:37 AM						

- 3. Navigate to C:\NCS EXPERT
 - a. Create a shortcut to your desktop of the "WORK" folder
- 4. Navigate to C:\NCS EXPERT\BIN
 - a. Create a shortcut to desktop of "NCSEXPER.EXE"

5. Navigate to C:\Ediabas\hardware\OBD and run the OBDsetup.exe. Your screen will look something like this, since I have ran this script previously it might look a little different the first time you run it. YOU MUST RESTART after this!!

C:\EDIABAS\Hardware\OBD\OBDSetup.exe	lignigent 🗿 ligne bare	
Windows XP Version 5.1 Build 260	0	*
Installing OBD driver		
SubKey 'SYSTEM\CurrentControlSet	≺Services\Serial'allready	exist !
Reading values of the key		
Value Type = 1 Value Start = 3 Value Group = Extended Value ErrorControl = 0	Expected = 1 Expected = 1 I base Expected = Extended Expected = Ø	Ok Warning base Ok Ok
Read value 'Tag' failed ! Value ForceFifoEnable = 1 Value RxFIFO = 8 Value TxFIFO = 8 Value PermitShare = 0	Expected = 1 Expected = 8 Expected = 8 Expected = 0	Ok Ok Ok Ok
Value LogFifo = 0 Warning! Some values have no sta Press any key to continue	Expected = 0 indard data - May be there ar	Ok re problems !
		•

6. Right click on my computer > properties

a.

- a. Windows 7 and WinXP is similar
 - i. Click on Advanced system settings
 - ii. click on Environment Variables

System Properties	x				
Computer Name Hardware Advanced System Protection Remote					
You must be logged on as an Administrator to make most of these chang	jes.				
Visual effects, processor scheduling, memory usage, and virtual memory					
Settings					
User Profiles	_				
Desktop settings related to your logon					
Settings					
Startup and Recovery					
System startup, system failure, and debugging information					
Settings					
Environment Variables					
OK Cancel Ac	ply				

iii. Highlight "Path" and click edit

	and the second value of the second
ser variables for Ov	vner
Variable	Value
TEMP	%USERPROFILE%\AppData\Local\Temp
TMP	%USERPROFILE%\AppData\Local\Temp
	New
vstem variables	
Variable	Valua
Variable	Value
Variable OS	Value A Windows_NT
Variable OS Path	Value Windows_NT C:\Windows\system32;C:\Windows;C:\
Variable OS Path PATHEXT PROCESSOR_A	Value Windows_NT C:\Windows\system32;C:\Windows;C:\COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS; x86
Variable OS Path PATHEXT PROCESSOR_A	Value ^ Windows_NT

iv. Add this to the end ";C:\ediabas\bin"

Edit System Variable	X
Variable <u>n</u> ame:	Path
Variable <u>v</u> alue:	?\WindowsPowerShell\v1.0\;C:\ediabas\bin
	OK Cancel

- v. Click ok and exit all windows to desktop
- 7. From desktop press the WINDOWS KEY + R and type devmgmt.msc or just type in to search

	Type the name of a program, folder, document, or internet resource, and Windows will open it for you.
Open:	devmgmt.msc 👻
	😵 This task will be created with administrative privileges.

- 8.
- 9. This will open device manager.

1

- a. Go to PORTS> double click on com1 > port settings tab > advanced
- 9c. Perform after step 9b.

Now plug the cable in to your laptop. When you plug the connector into the laptop, it must be on COM1. It will not work with any other COM#. Highlight the + sign by PORTS>double click the USB Serial device>port settings and change the port to Com 1>save. It may give you a pop up that there may be a conflict with other devices on COM1. That's OK as you will no be using any other device when you code the car. >Now go into the advanced tab>change if not alreday set to this Com Port number should be COM 1; receive and transmit bytes should both be 4096; latency timer change to 1; minimum read and minimum write 0>OK>OK

- b. Ensure "use fifo uffers" option is marked and receive buffers and transmit buffers are both set to 8. Once that is finished press ok and exit all windows.
- 10. Take a second, double check everything you just did. Trust me when I say you can't skip steps!
- 11. Connect your obd cable to car and computer we are going to test functionality with INPA.
- 12. Put key in slot and press the START STOP button but not to start car. Press twice so car Ign on, lights and climate off
- 13. Go to desktop and click on "INPALOAD" (shortcut we created previously)
 - a. Both circles are black then continue, if not double check all previous steps make sure

BIMIVV Diagnosis P	rogram			
Battery :	on on	Ignition :	on on	
< F1 > Information		<shift> + < F1 > Chang</shift>	e Editor	
< F2 > E87		<shift> + < F2 > Mini R</shift>	50	
< F3 > E46		<shift> + < F3 > Specia</shift>	I tests	
< F4 > E60				
< F5 > E65		<shift> + < F5 > Rolls I</shift>	Royce RR1	
< F6 > E85				
< F7 > E83				
< F8 > E53				
< F9 > E90		<shift> + < F9 > Old m</shift>	odells	
< F10> End		<shift> + < F10> Exit</shift>		
since we have E63's Script selection (<tab> to</tab>	s. B change listbox, <esc> to</esc>	you will get this bo		
Select E E60 1.27	Functional	Jobs		
Select E _{E60} 1.27 Engine Transmission Chassis Karosserie Seat Modules Communication S	yste	Jobs		
Select F _{E60} 1.27 Engine Transmission Chassis Karosserie Seat Modules Communication S It wil	yste	Jobs not German		

15. Select "Karosserie" now you will see another menu to the right. Select "airbag"

16. Press F5 to read status.. if it continues without any errors we are ready to run NCS Expert

- 17. Close INPA and start NCS EXPERT.exe from desktop shortcut.
- 18. Follow instructions very very very carefully, you can screw up your car starting now. If you don't know how to follow directions stop immediately . ok now for the fun part.
- 19. Should start off looking like this..

다 NCS-	🛍 NCS-Expertentool - no profile loaded					
<u>F</u> ile <u>V</u> i	ew <u>H</u> el _l	р				
		CHASSIS:			Nrcl-No.:	:
		FG				
		SA				
		VN				
1						
E1	1	F2	F3	F4	F5	F6
Beady	, –					
	_					L J

- 21. Remember to follow directions closely....
- 22. Select "File > Load profile > Expertmode > OK

1	Profil ausw
	Default Profil mit eingeschaltetem Trace ohne SG FAL Code control unit, allow ZCS reading CAR KEY MEMORY FSW PSW MAN Expertmode
	BVR CKM ZCS nicht schreiben Revtor's NCS Expert Profile
	OK Cancel

24. File > edit profile password is "repxet"

Profile editor	-		
Applic	ZCSUT	ZST	- FG/ZC S/FA/Baureihe
Verifikation	ſ		ASW ASW-Trace = ON
	SGET	С сут	
SGET-Data			FSW/PSW FSW-/PSW-Trace = ON
	Coding		
Car-,Keymemory Car/Key Memory	Nettodata-Trace =	• ON	Profile info
consister	ice check	ОК	Cancel

- 26. Select car-keymemory > check all three boxes > press ok
- 27. Click on "consistency check" should get this .. press ok



- 29. Then select "FSW/PSW"
- 30. Make sure both check boxes are checked and top part only has "from CVT" selected .. should look like this

Read FSW/PS	SW: / processing inactivy	
from CVT		
O from file		
I FSW-/PSW FSW-/PSW	V-Trace V-Manipulate with FSW_PSW.MAN	

- 32. Press ok, select consistency check again.. if no errors then press ok
- 33. File > save profile as > FZG4.PFL "mine is name GZG2.PFL" press ok

33a. Save it as the name it defaults to. Don't change the name

34. Example

37.

Save As		×
File <u>n</u> ame: CSEXPER\PFL\FZG2.PFL FAL.PFL FZG.PFL FZG_ZCS2.PFL FZG0.PFL FZG1.PFL FZG2.PFL FZG3.PFL ▼	Eolders: c:\ncsexper\pfl	OK Cancel Network
Save file as type: Profiles (*.pfl)	Dri <u>v</u> es:	•

- 35. File>edit profile>repxet>profile info> set profile name to "FSW PSW MAN"
- 36. We have just created a profile to write to car via a .man file. Every time you start NCS expert you will need to load this profile. After you load the profile you will see options like this

NCS-Expertent	ool - FSW PSW MAN	100		
<u>File V</u> iew <u>H</u> elp)			
	CHASSIS: FG FA		Nrcl-No.:	
F1 /IN/ZCS/F/ 「C	F2 F3 HASSIS SG ausw	F4	F5	<u>F6</u>
Ready				

Note** I use and load the profile default profil mit....as the one I load. It seems to work better than the one created. It needs to be edited to look like step 30. Both bottom boxes require the x. Remember password is repxet

38. Select F1 > select F3 here we can choose our chassis. We are going to callect E60

assuming you are working on an E63-64. Again this may seem counter intuitive but it is the correct procedure

The program seeks the modules loaded for an E60 via files in NCVS Expert known as DATEN files. Most of the modules are loaded in these files. There is an update to these files that I got from a helpful site in Moscow. I did update them in my DATEN folder, but so far do not see any different so for now use what comes with NCS Expert

E39 F46	4
E52	
E E60 is the one to E E70 E83 E85) highlight
E K ^{E89} R50	

39. L

40. Press ok. Now it is asking which computer we want to code.. we are going and always select

"CAS" press ok. All options will gray out for a couple seconds and then it will look like this.

<u>F</u> ile <u>V</u> iew	<u>H</u> elp			
	CHASSIS FG FA	E60 WBAVB13566PT13516M E90_#0905&KAB4%0668*V	Nrcl-No.: 0 FG is your VIN FA will say E60	17605go

Note* CAS is not the comfort access module. It is a coding reference Coincidentally, there is a module called CAS, which is in fact the comfort access module. In case you were wondering

- 42. Notice that now our vin is there along with "FA" FA is like a single string that tells the car everthing that it came with from the factory. More advanced users can change this but not really needed. I have provided a pdf for that if you are interested.
- 43. Now select "F6" for back will gray out then will look like this This may take a minute. Do not interrupt.



- 45. We are going to start by making a backup of the car.
- 46. WARNING this initial step will reset your ECU and replace any settings you have coded previously since we have just "coded nothing" to the ECU.
- 47. The whole point of this was for the ECU to read all the settings from every module and place them in a file called FSW_PSW.TRC.
- 48. Navigate to the "WORK" shortcut we created on the desktop.
- 49. Open the file FSW_PSW.TRC with notepad. Make a copy of it in a safe place. This is your backup of all the settings.
- 50. Ok now for the fun.. coding.. lets code the famous "digital speed on cluster"
- 51. Just to avoid any mistake close NCS we are going to start from the beginning.
- 52. Load NCS >File>load profile "FSW PSW MAN"
- 53. F1>F3>select your chassis>select "CAS"
- 54. Press F6 for back
- 55. Press F4 to select a specific module "process ecu" then you get a list of all modules on your car.. will and may be different.

20	ausw	
	2URAD	-
	6BMOT	
	ABG	
	CAS	
	DSC	
	EGS	
	EKP	
	FAS	
	FRM	
	FZD	
	IHK	
	JBBF	
	KOMBI	-
		_
		maal
	UK Ca	nicei

Step 49 saves a master file of all your modules and settings. Save this on a thumb drive as well as on the PC in the backup folder Name it something other than FSW_PSW.TRC, like Master.TRC

- 57. Select "CAS" then select "READ ECU" this is going to create another FSW_PSW.TRC file but only with the values on for the module we select.
- 58. Select "READ ECU" this will read all the values from the specific module and place ten in the file stated above. You will get a screen like this.. you can close it.



- 61. Open the FSW_PSW.TRC file with notepad
- 62. File>save as FSW_PSW.MAN (be sure to select "save as type" to all files so that it will accept our ".MAN" extension. If you fail to do so it will just save it as a text file .TXT Note* very important to save as a .MAN
- 63. The "FSW PSW MAN" profile that we used is going to use this "FSW_PSW.MAN" file . this is where we are going to make any changes and then NCS will write this to ECU.
- 64. Open the file we just saved with notepad will look like this.

File Edit Format View Help CC_BLINKFREQUENZ_LANGSAM wert_01 CC_BLINKFREQUENZ_SCHNELL wert_01 TANK_FILTER_FALLEND wert_02 cc_15_aUS cc_R_EIN wert_01 CC_R_CTN wert_01 CC_R_CTN wert_01 CC_R_CTN wert_01 TANK_FTITER_STEIGEND wert_01 TANK_FTLTR_STEIGEND wert_01 TANK_MITTLUNGSZEIT wert_01 TANK_BERUNIGUNGSZEIT wert_01 AUSSENTEMP_ZEITKONST_Z4 wert_01 AUSSENTEMP_ZEITKONST_Z5 You can use Edit>Find to get to the line of code quicker wert_01 AUSSENTEMP_ZEITKONST_Z6 wert_01 AUSSENTEMP_ZEITKONST_Z1 Ut will take upi to every line that has a bc in it. When you AUSSENTEMP_ZEIXKONST_Z1
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Wert_UI
wert 01 nicht_aktiv to aktiv, then save as FSW-PSW.MAN all Caps
AUSSENTEMP_ZEITKONST_Z3
wert_01 **You can only have one .MAN file in the work folder at a time
AUSSENTEMP_DELTA_KI
AUSSENTEMP_ANZ_FEHLER_1
Wert_01
wert_01
PREDRIVE_ABB_MOT
- 😸 💼 🥠

- 65. 📕
- 66. The basics are if an option is enabled it will say "aktiv" if its not it will say "nicht_aktiv"
- 67. Search for the option "BC_DIGITAL_V" and change the value from "nicht_aktiv" to "aktiv"
- 68. File >save
- 69. Back to NCS now hit F5 for basic functions
- 70. Select "coapiReadSgGetFswPsw" and ok.. you are basically telling NCS to read all the values from your fsw_psw.man file. You will see a screen similar to this just press ok.

,		
CBD name	: CAS2.C05	
Chassis	E60	
Ergebnisdate	i	_
	OK Cancel	

72. Then you should get this.

	coapiReadSgGetFswPsw
	basic function perfect ended
73.	ок

- 74. Press ok.
- 75. Ok now take a look where it says "JOBNAME = CODIERDATEN_LESEN"
- 76. We need to change that to a coding function because we want to write the changes to the module.
- 77. Select F2 "job" select SG_CODIEREN and press ok
- 78. Then press F3 to execute the job. Will gray out for some time.. now you will see this . notice the "coding ended' message

<u>File V</u> iew	Help	SW MAN			
	CHASSIS: E FG FA E	E63 (E60) 70 13366 E60	PT13516M (AB4%0668≠VI	Nrcl-No.: 31	017605go
	get coded: CAS Coding end JOBNAME = CAS2.C05,	ed = SG_CODIEI A_E65CAS.IF	REN PO, CAS.PRG		

- 80. Assuming no errors.. CONGRATS you now have digital speed .
- 81. Press the BC button to scroll by MPG, MLS and MPH eventually you will see "V= 0 mph"..
- 82. After a couple of times you will get used to the process.. to code other options you just have to know which module controls them. Which value or values to change. Always do your research.

This is as descriptive as possible. Post all questions on this thread so everyone can see and we can share our learnings together

Happy Coding