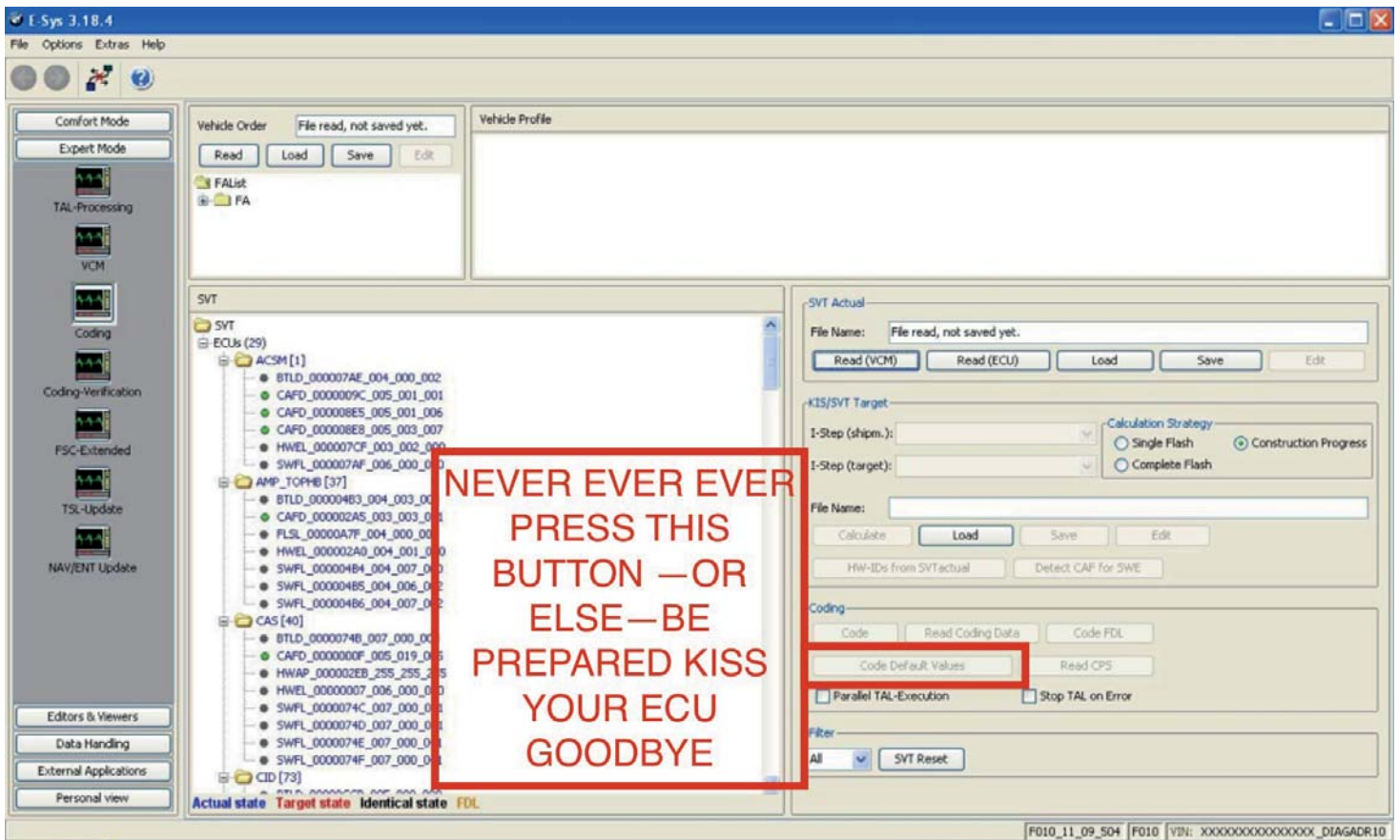**BE SURE TO RUN ESYS from the ESYS LAUNCHER SHORTCUT … DO NOT USE THE SHORTCUT THAT WAS CREATED BY THE ESYS INSTALLER!!!**

4. Before we begin, here's the MOST IMPORTANT PIECE OF INFORMATION THAT YOU NEED WHEN CODING

Under NO CIRCUMSTANCES SHOULD YOU EVER PRESS THE BUTTON "Code Default Values"

See BELOW for the location of that button in the Expert Mode; Coding Screen in ESYS

CODING TUTORIAL NOW BEGINS

Step 1: Connect cable to computer then to car (Ensure that your car's engine is running during coding)
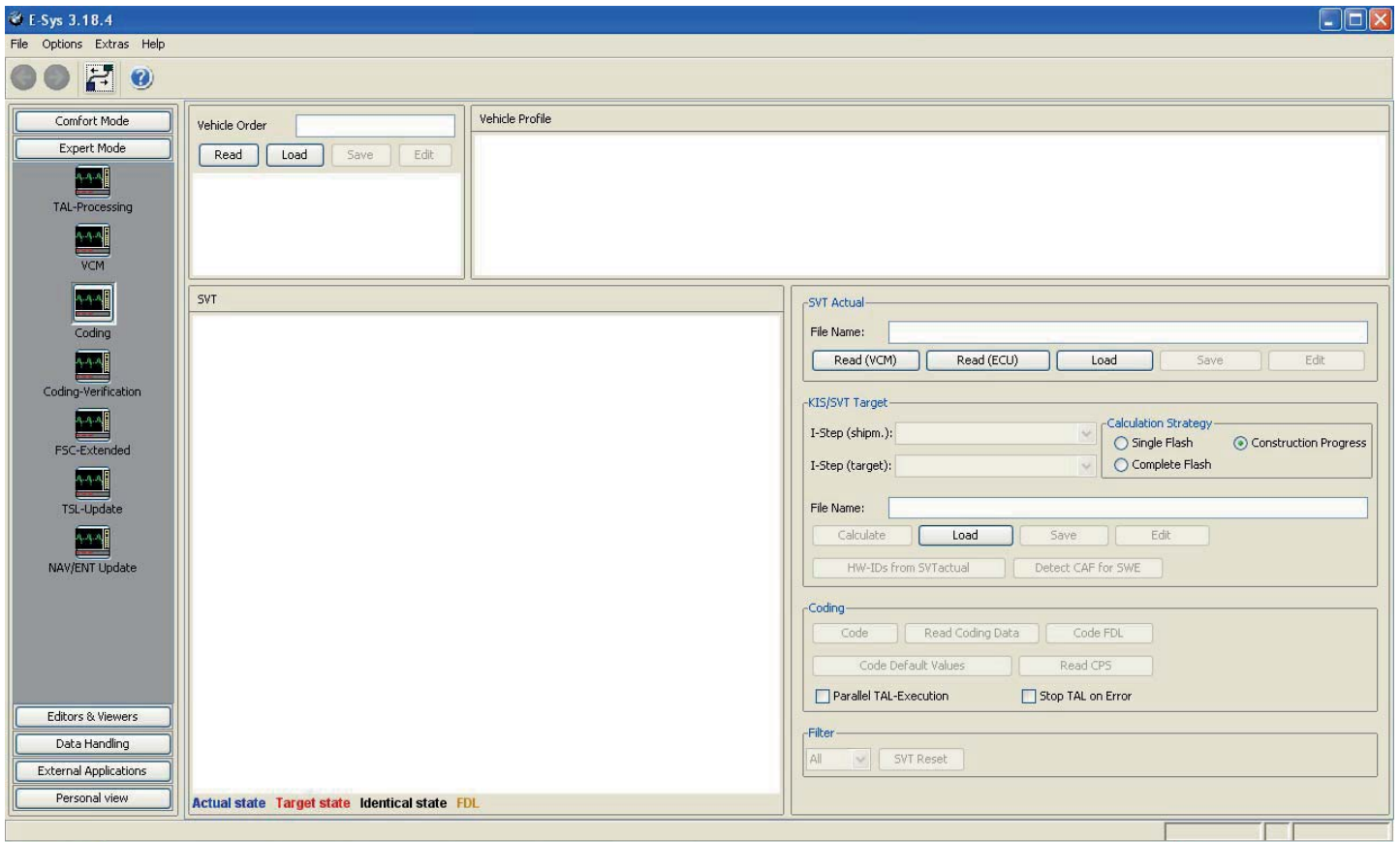
Step 2: Wait until LAN network adapter in task bar has established limited network capability (no screenshot)

To validate that the cable has a proper connection to the car, open up the LAN properties in Windows. The adapter should be set to obtain IP Address via DHCP (You can NOT set a STATIC IP Address for LAN Adapter)
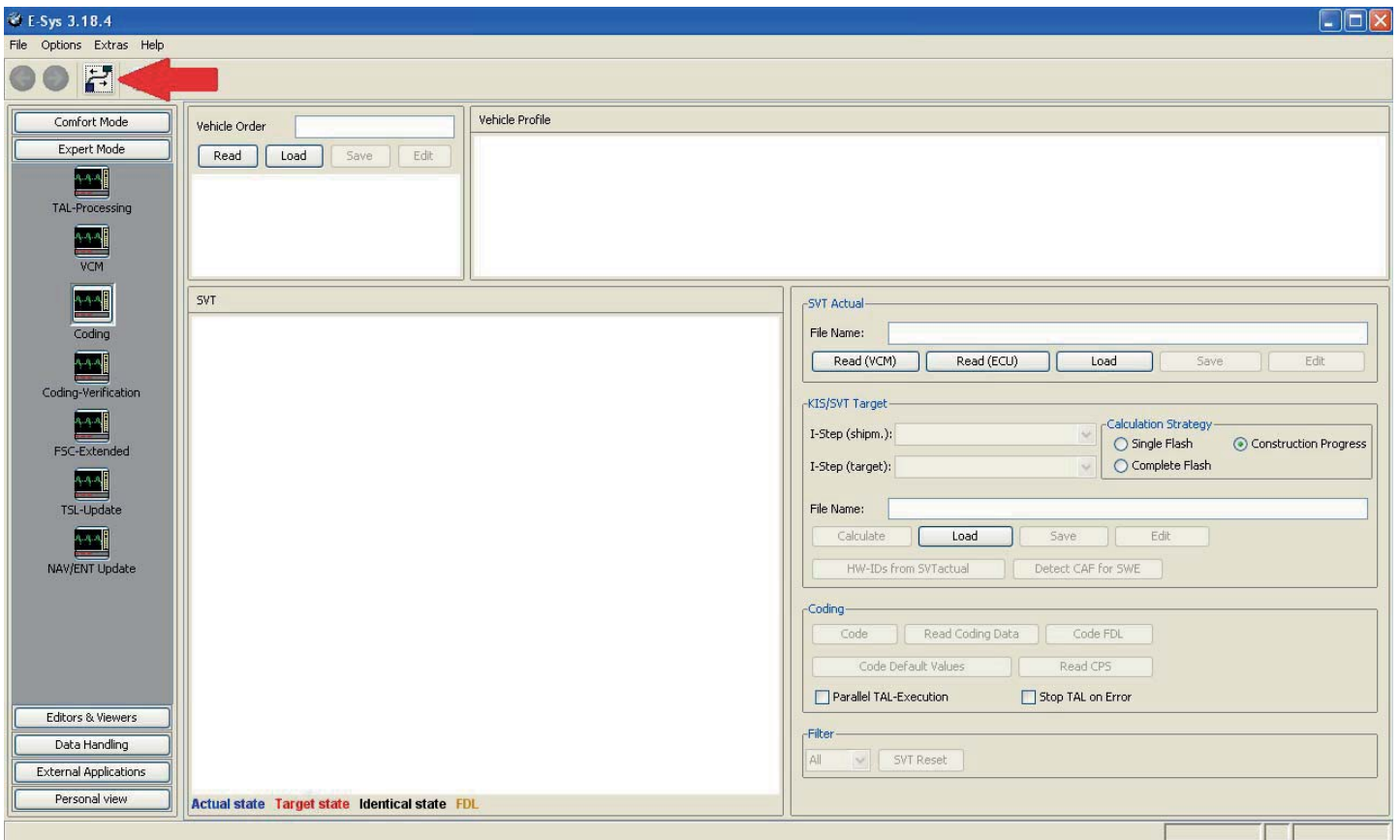
If you have a proper connection, your IP Address should be: 169.xxx.xxx.xxx

Remember to DISABLE Anti-Virus and Firewall Programs, which are KNOWN to interfere with ESYS communication via Ethernet / LAN connection.
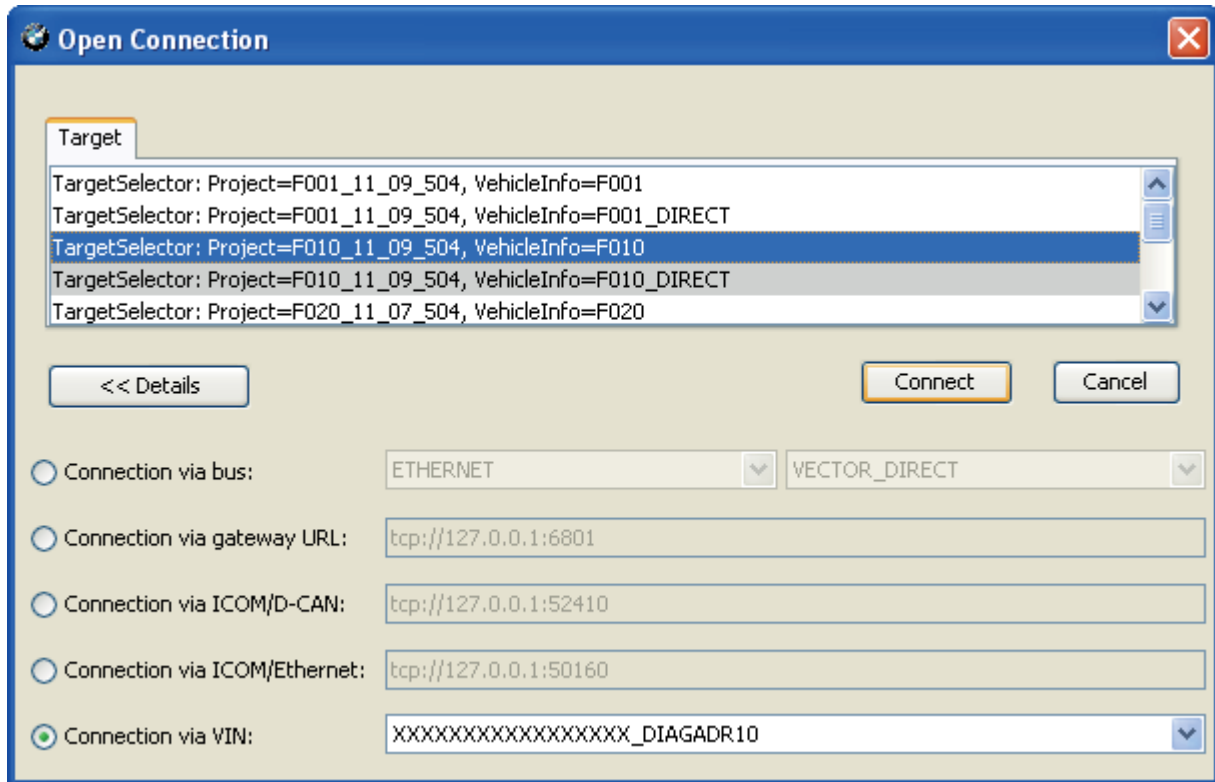
Step 3: Open E-Sys

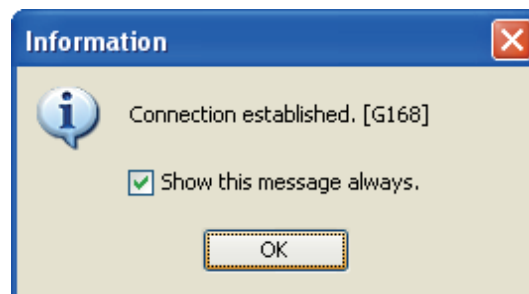## Step 4: Click the Connect button

Step 5: Select F series you are working on, my case F10=F010 Project … then select:
Connection via VIN and click "Connect"

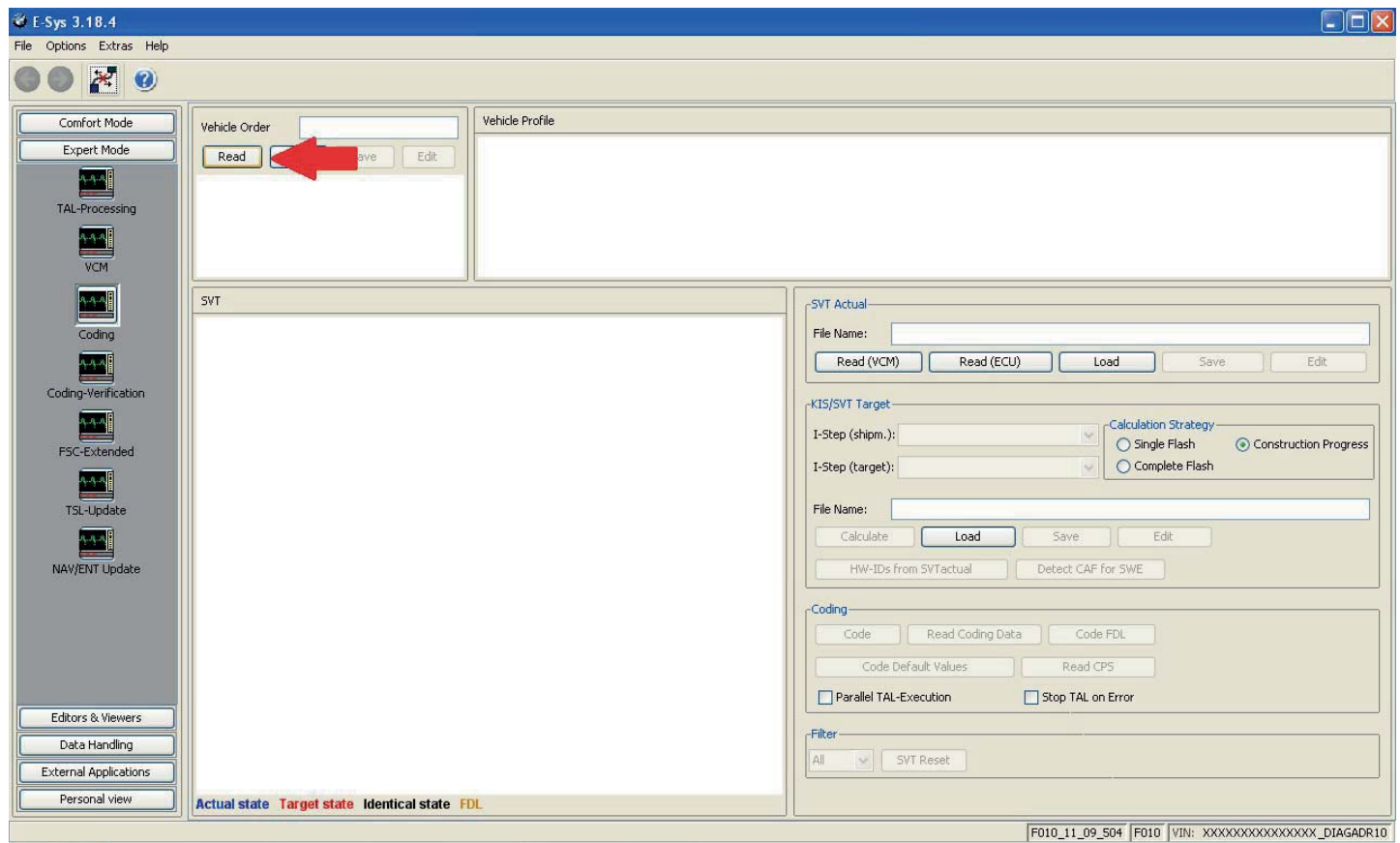**DO NOT USE ANY CONNECTION THAT SAYS "_DIRECT" at the end of the description**

F001 – 7-Series (all, including Alpina variants) & 5-Series GT Models Only
F010 – 5-Series; 6-Series (including ///M variants and Alpina vairants)
F020 – 2, 3, 4 Series (all) (including ///M variants and Alpina variants)
F025 – X3, X4, X5, X6 (all) (including ///M variants)
F056 – 2014+ Mini Cooper (all variants with iDrive controller)
I001 – i3, i8 (all variants)
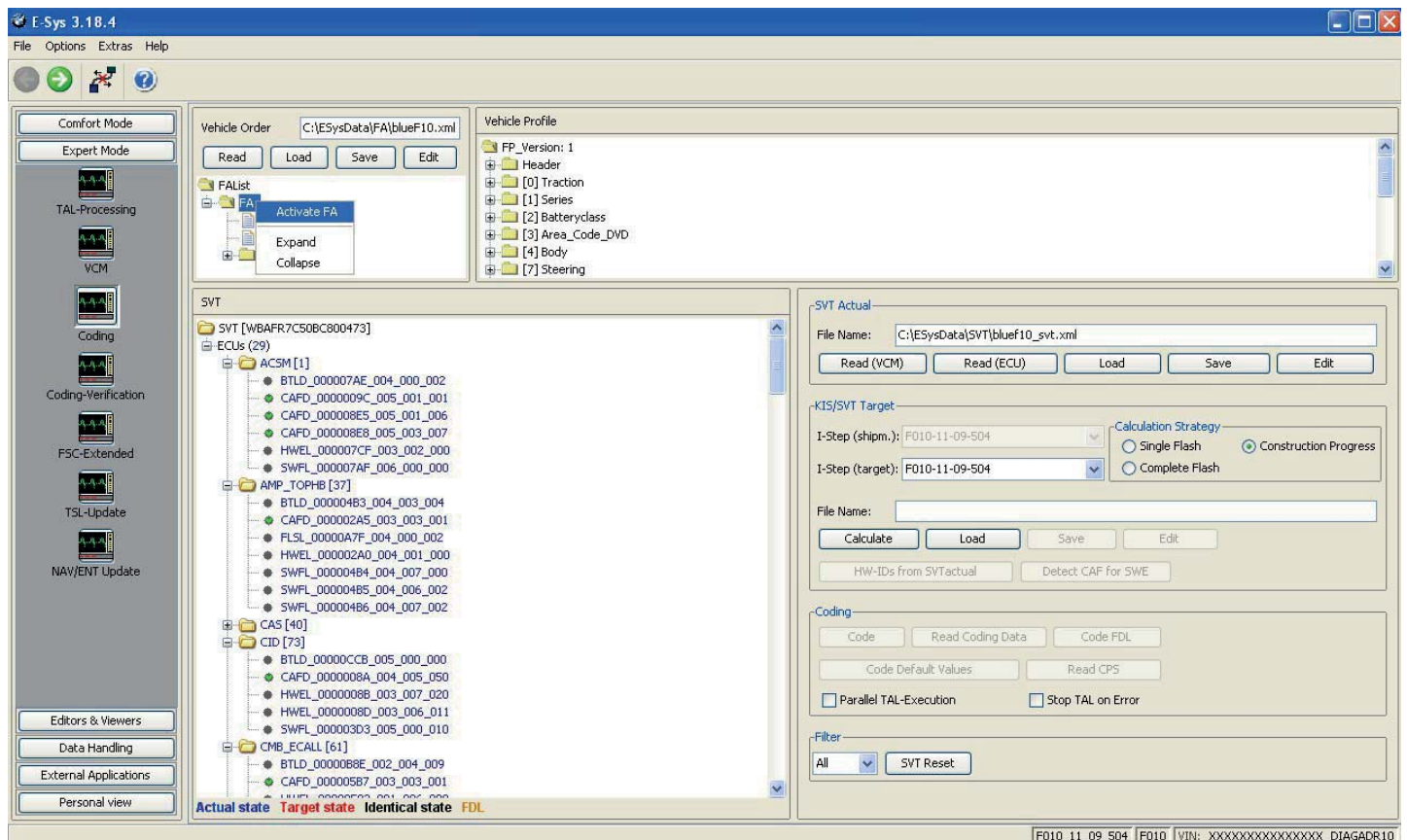

Step 6: Click "OK"
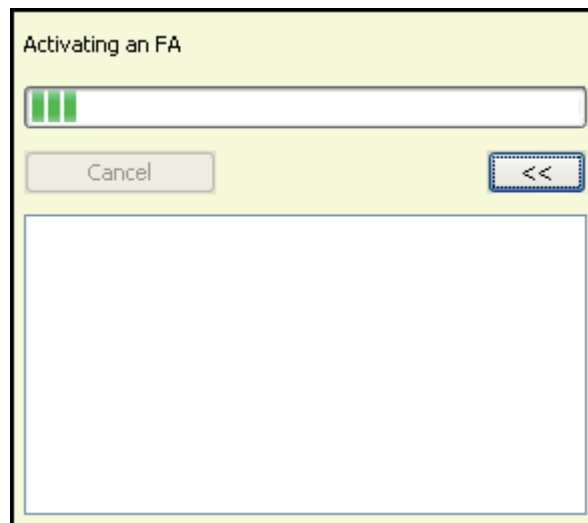
Step 7: Click "Read"

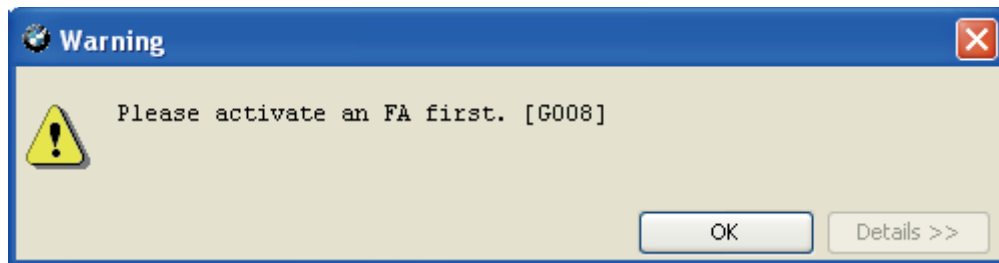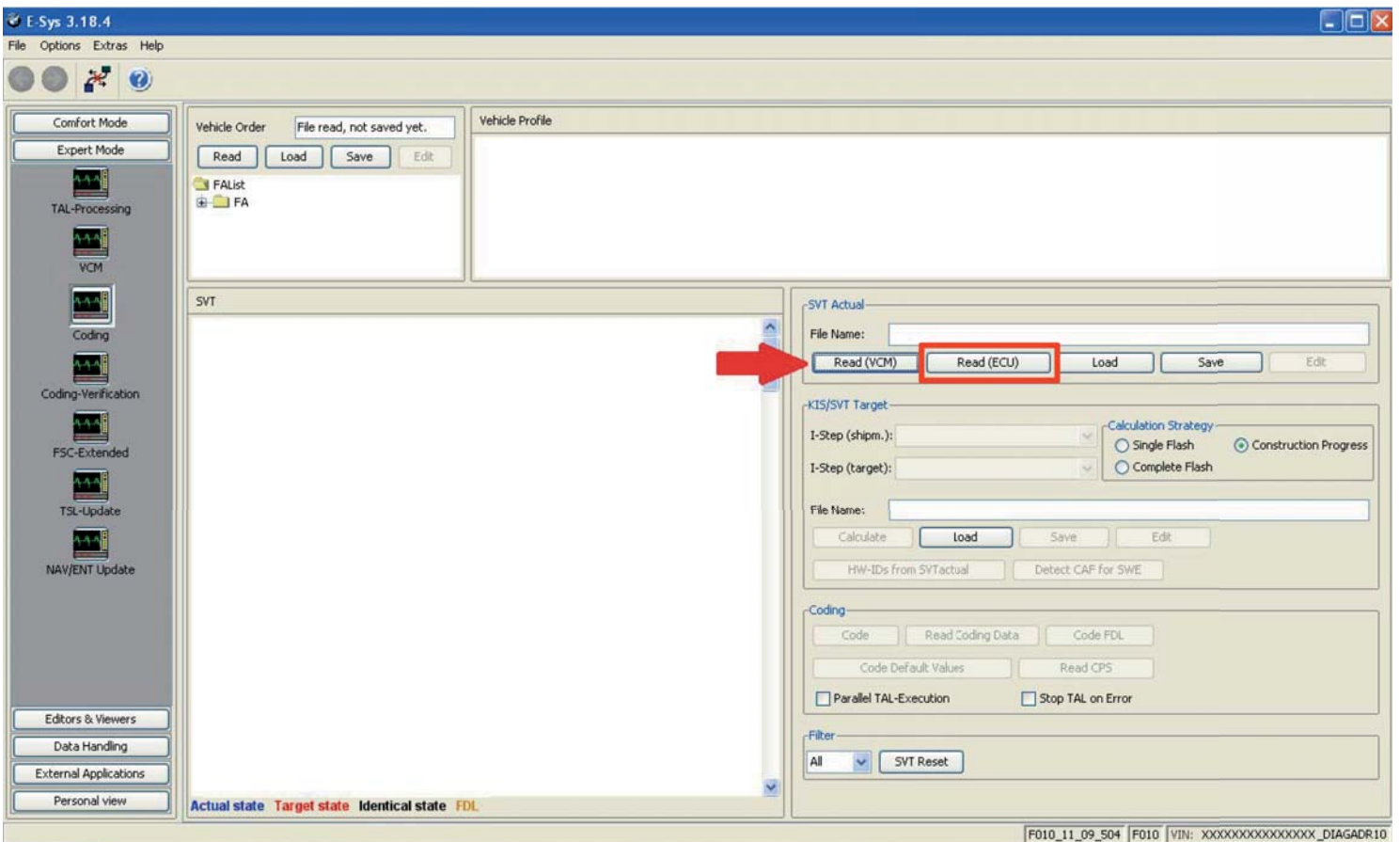Note: Option to save or not to save

Step 8: Right click FA, select "Activate FA"

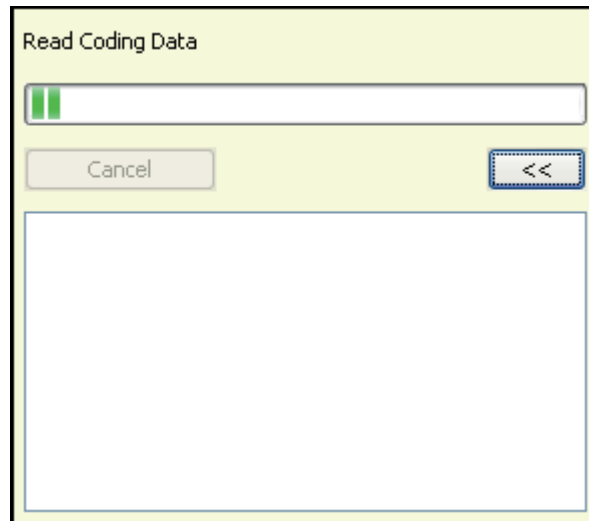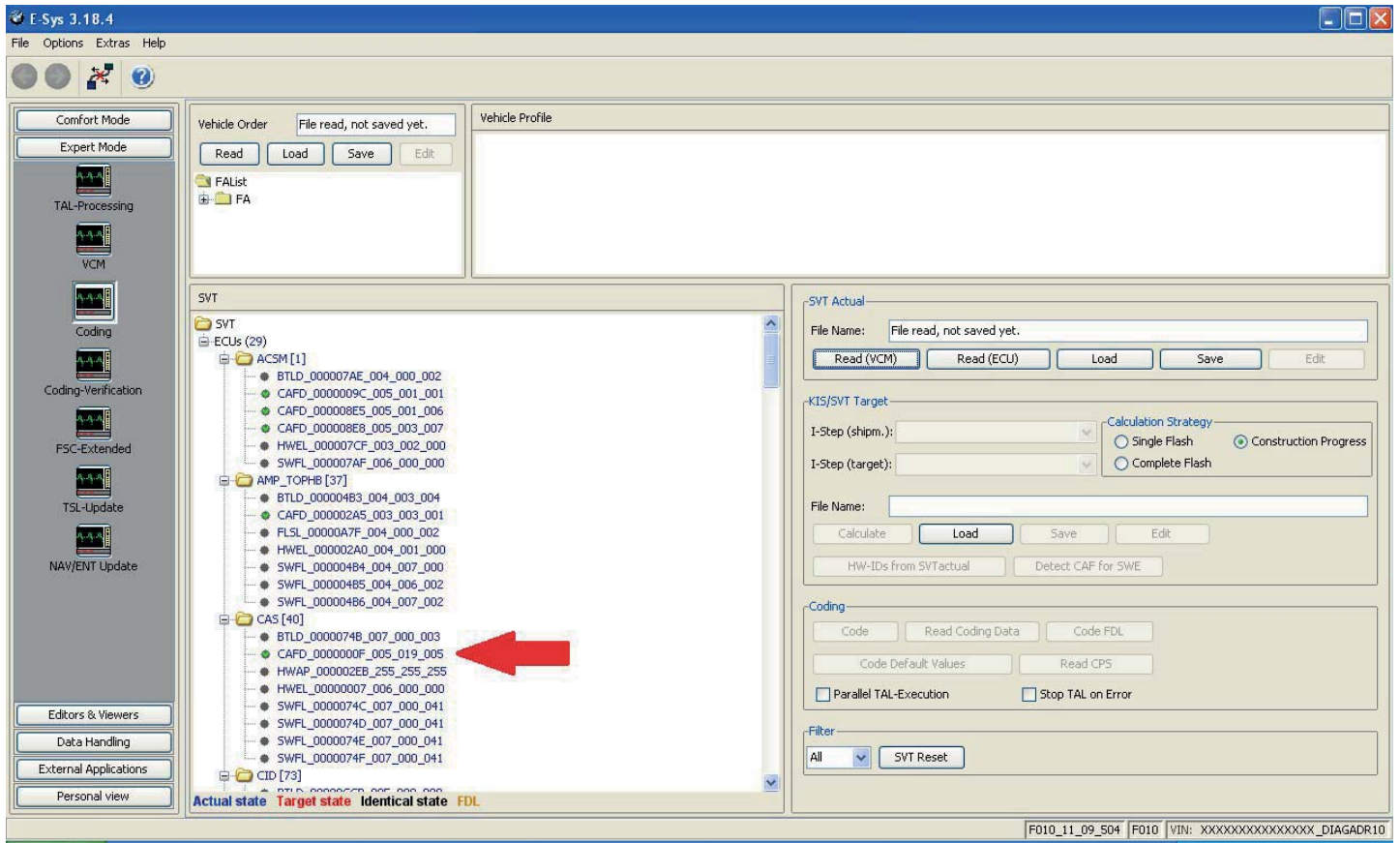Activating FA, just wait till it finishes. Once finished, FA should show (active) in green. If not, try again.

Activating an FA

▮▮▮	
Cancel	<<

Note: If you do not activate FA as described in Step 8, you will receive this message

⚙ Warning ✕

⚠ Please activate an FA first. [G008]

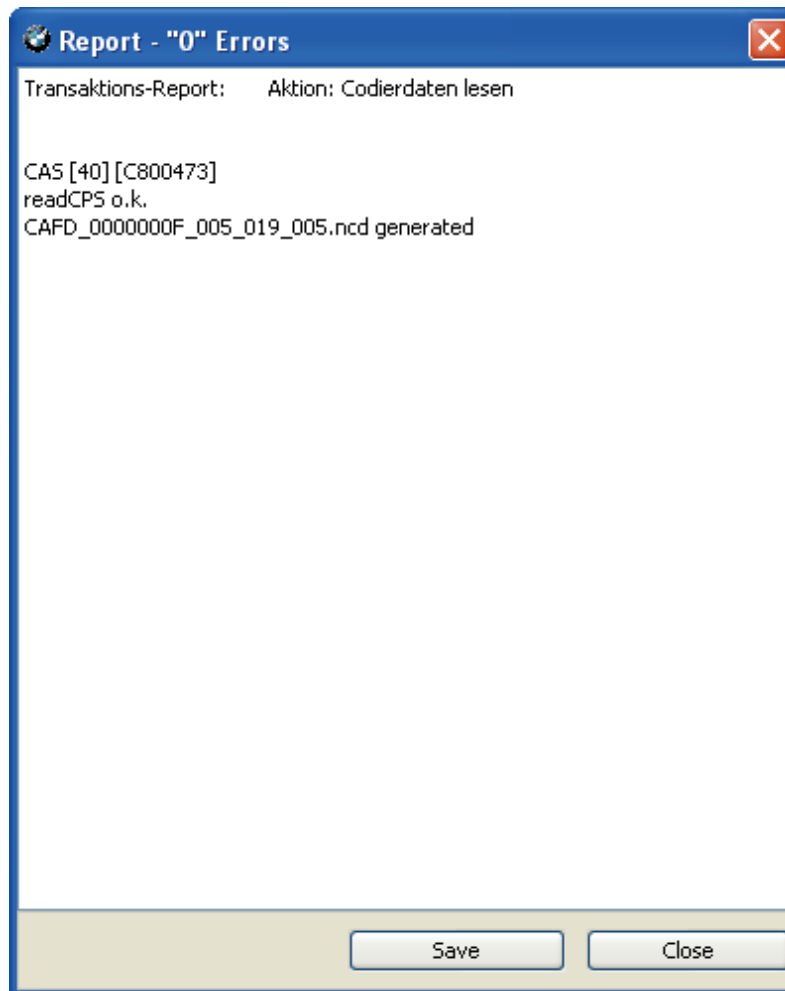OK   Details >>

Step 9: Click "Read (ECU)"

Step 10: Select CAFD (only one with a green Check mark) file under the module you want to read and select "Read Coding Data" …. (Note: the ACSM ECU has 3 with green check marks … pick first one)
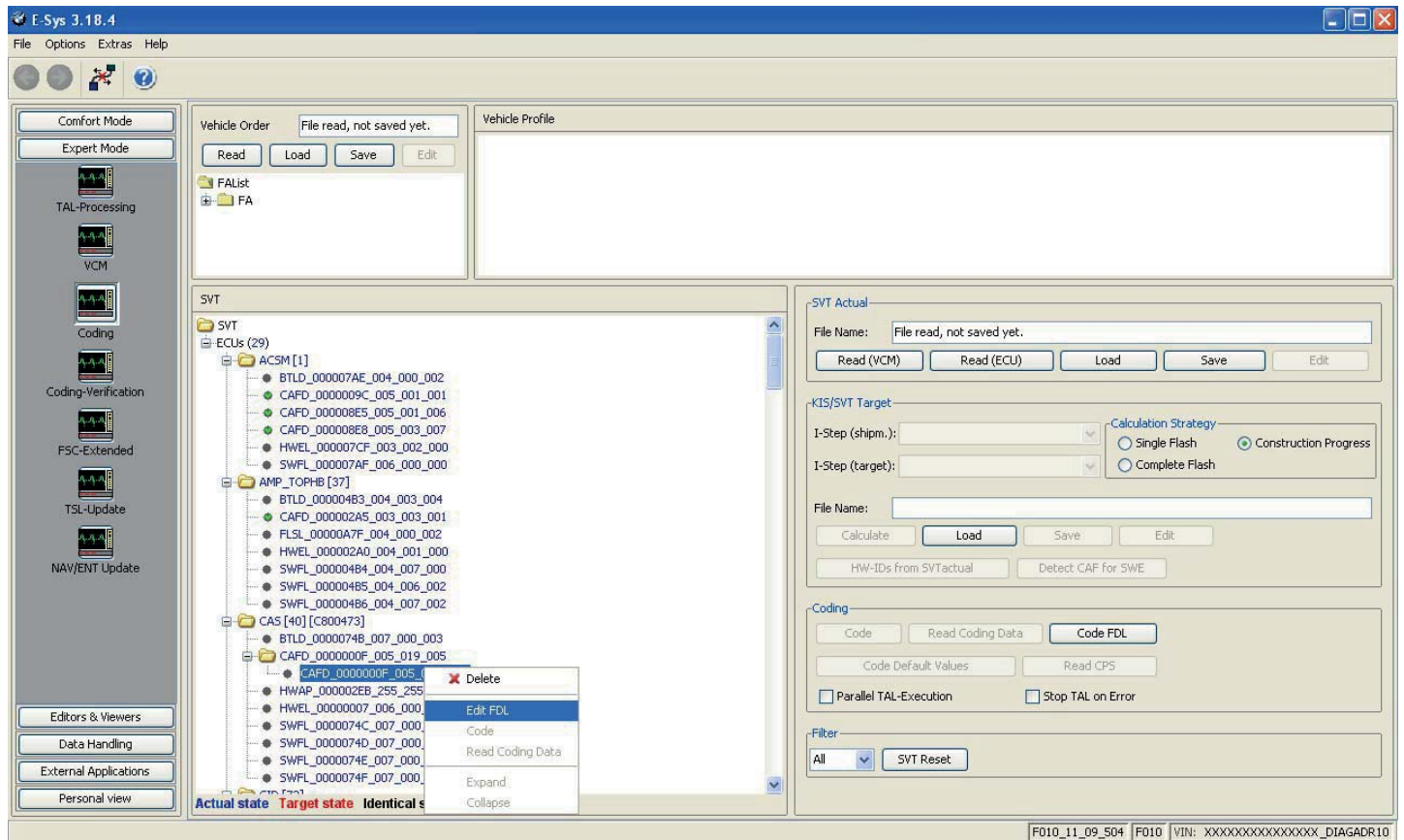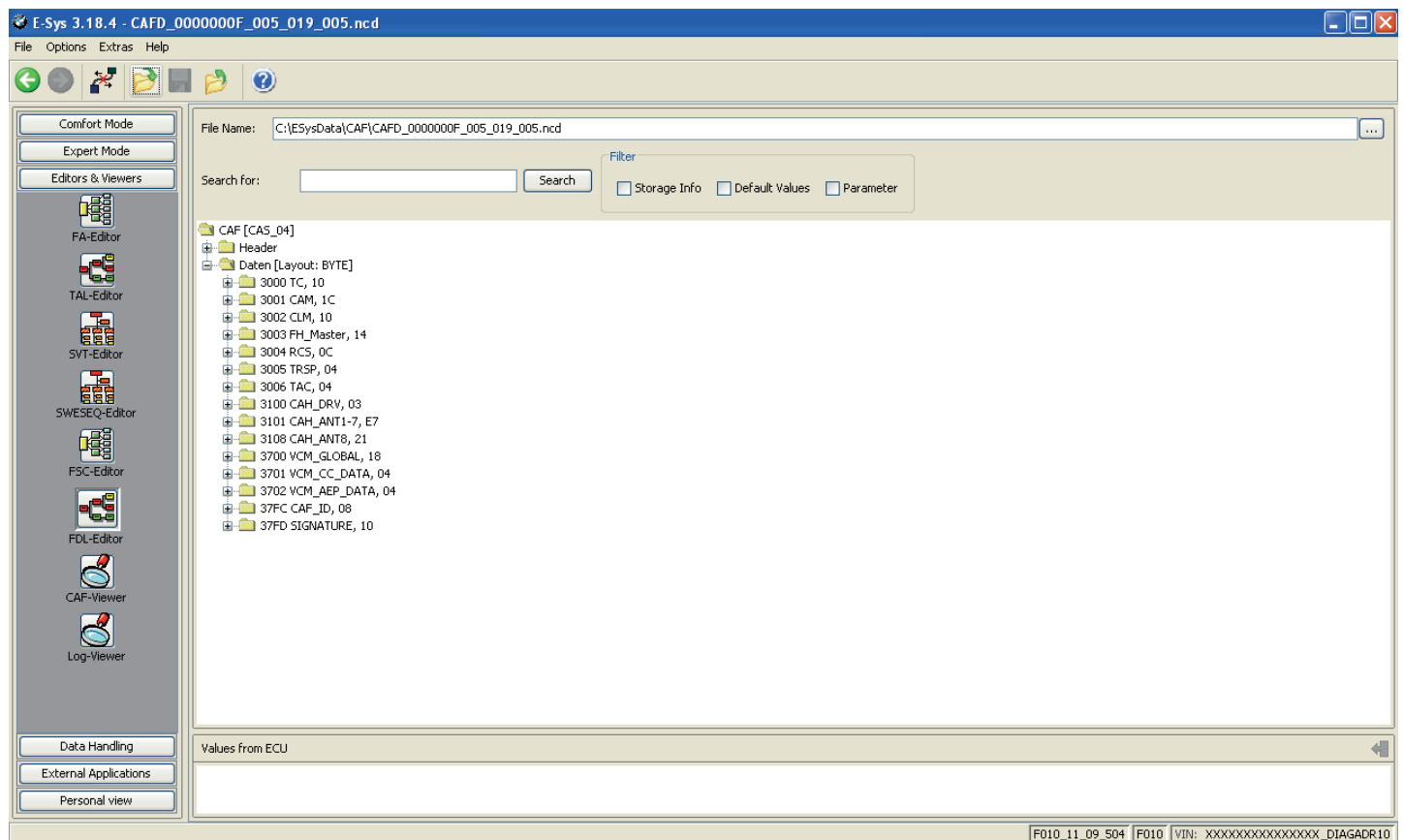
Step 11: Error Report, Click "Close"

You want to see that CAFD_xxxxxxxx_xxx_xxx_xxx.ncd was generated as shown below:

Report - "0" Errors

Transaktions-Report: Aktion: Codierdaten lesen

CAS [40] [C800473]
readCPS o.k.
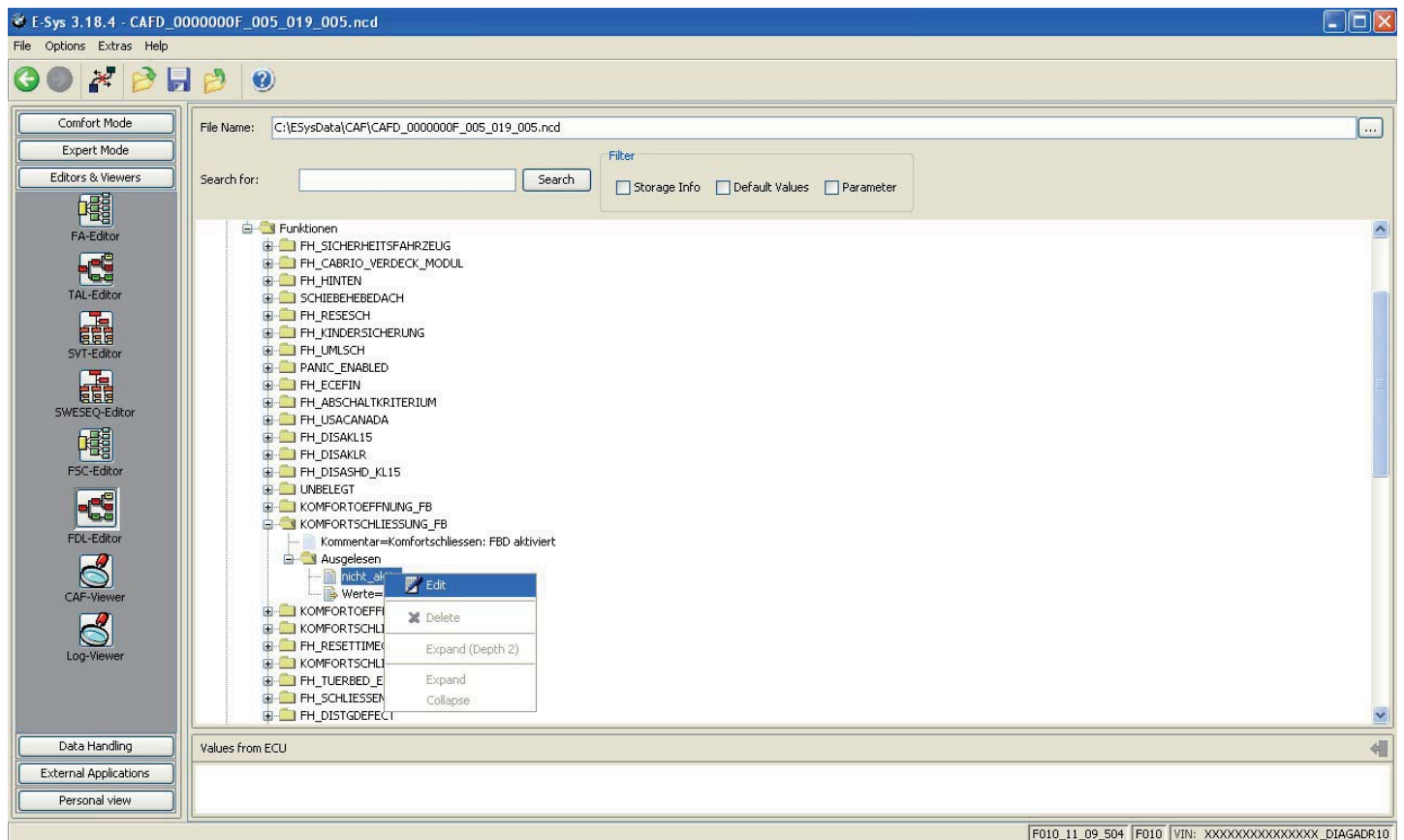CAFD_0000000F_005_019_005.ncd generated

Save   Close

Step 12: New option under CADF, a folder. Expand the folder by clicking + and right click that file, Select "EDIT FDL"
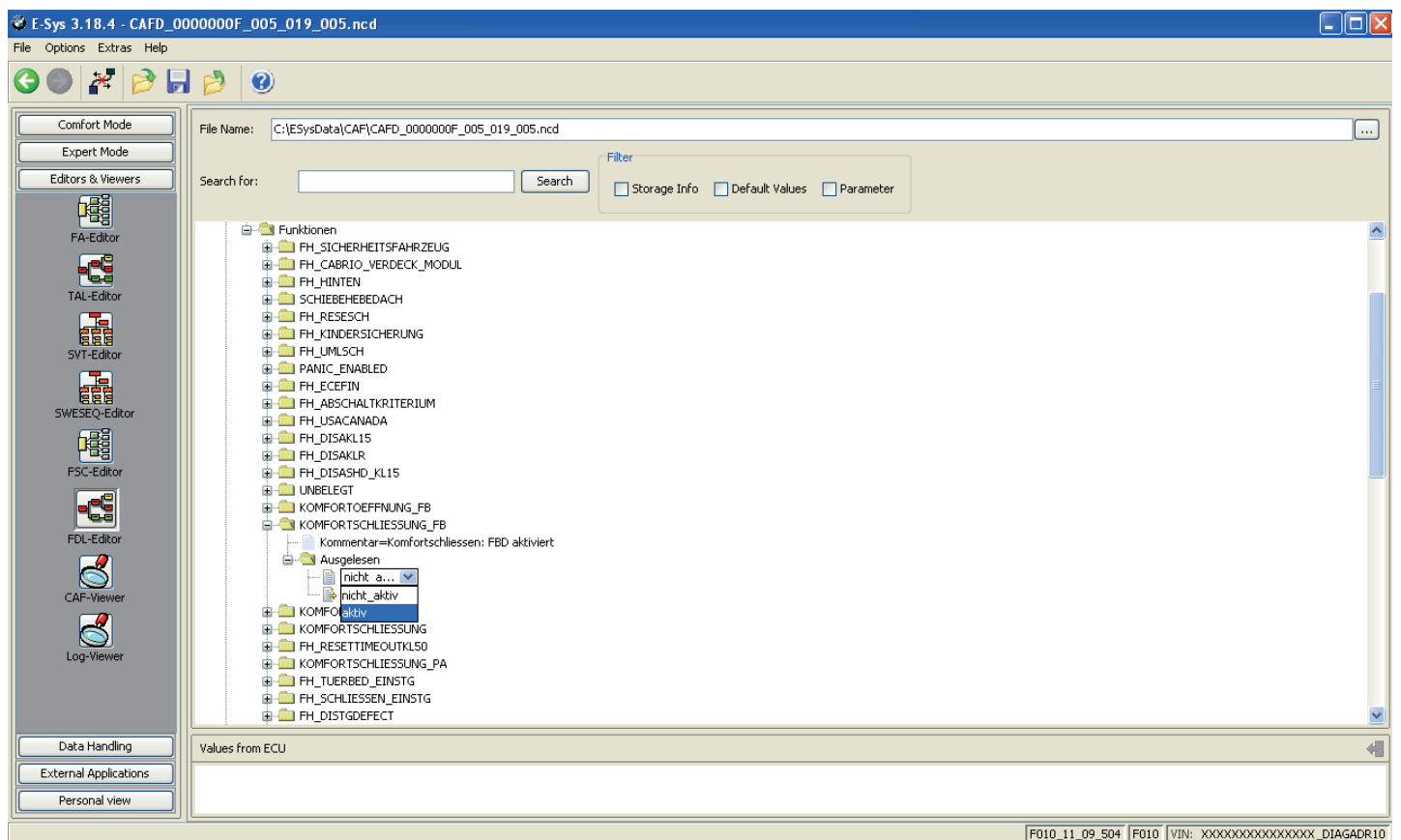

Step 13: Browse the folders till you find your option, I want option KOMFORTSCHLIESSUNG_FB
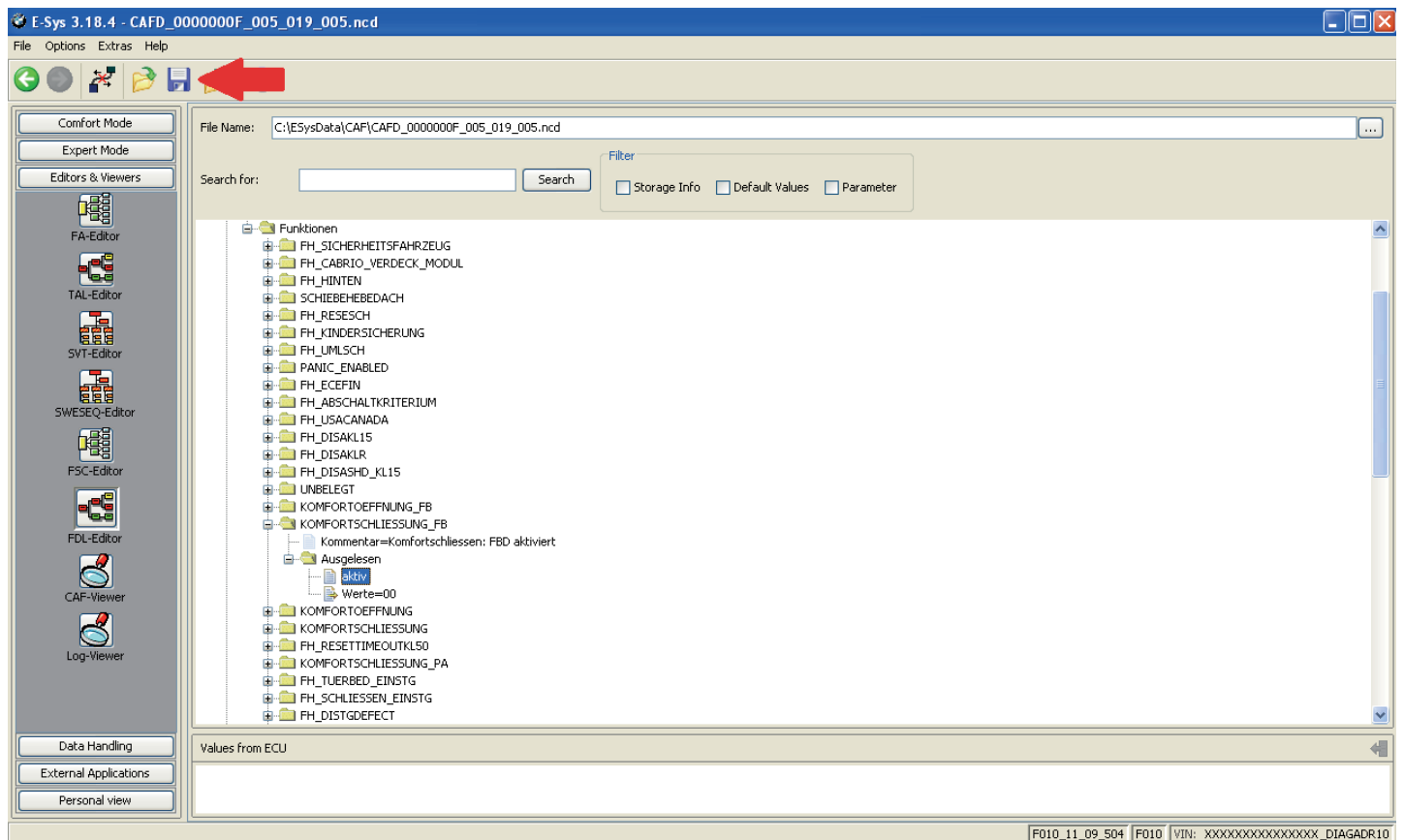
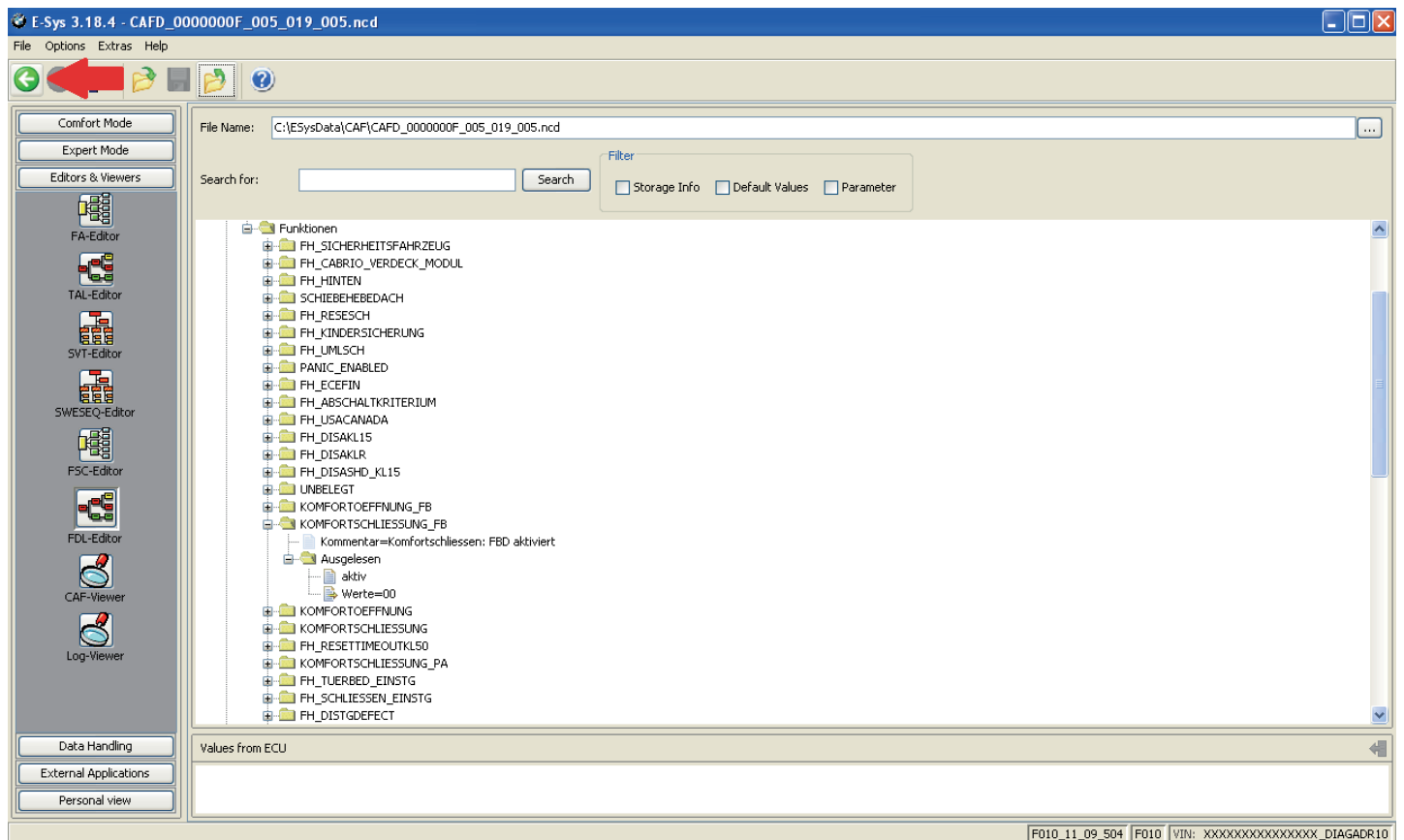Step 14: Factory option set to nicht_active. Right click, select "Edit"

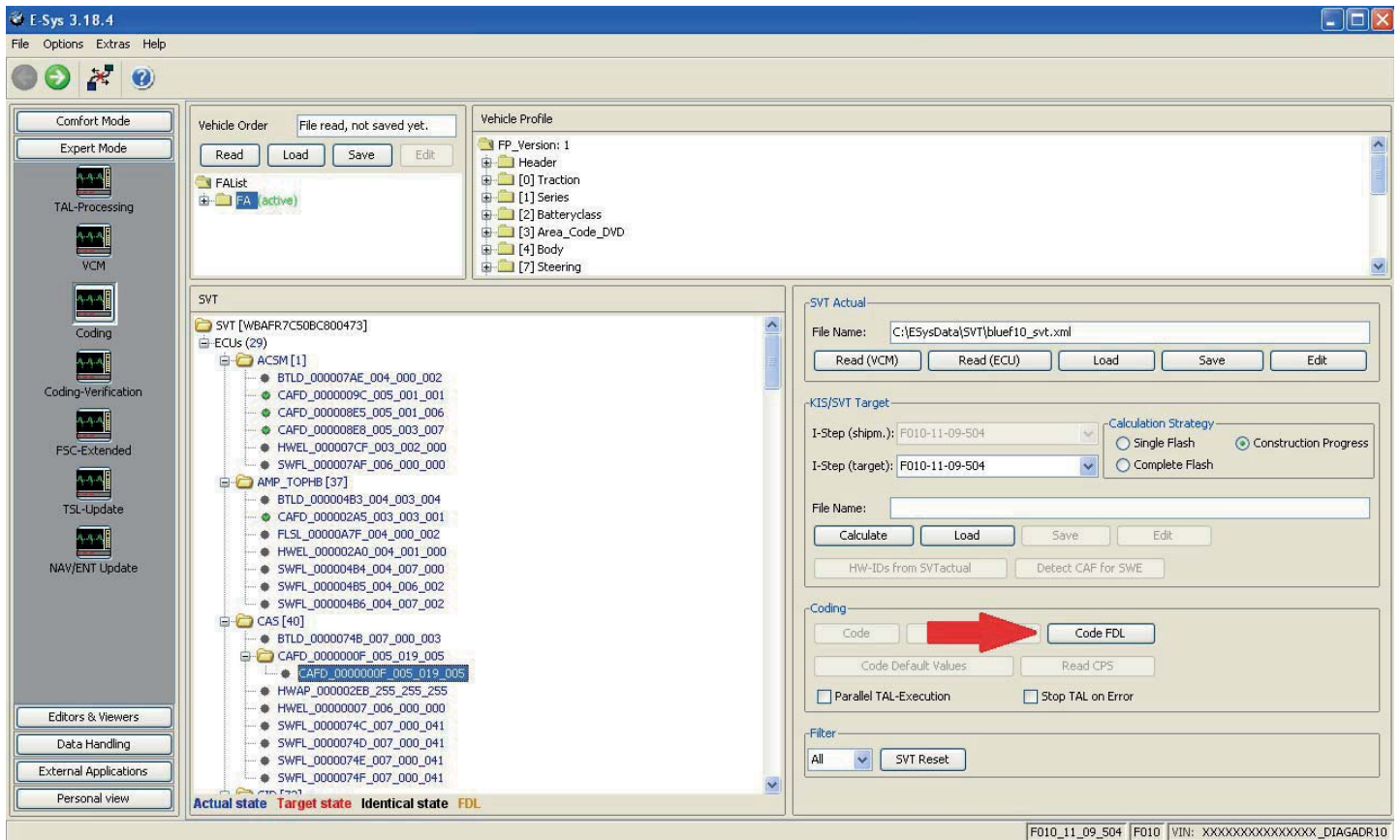Step 15: Select option desired, in this case, select "aktiv"

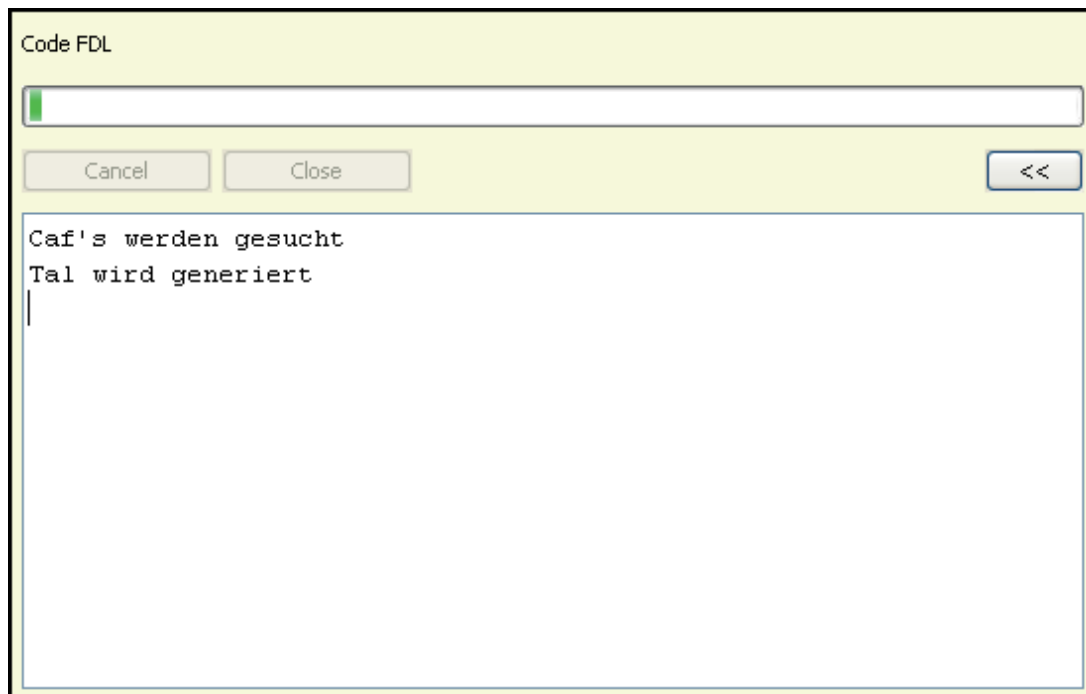Step 16: Once all changes have been made, Click the "Save" icon

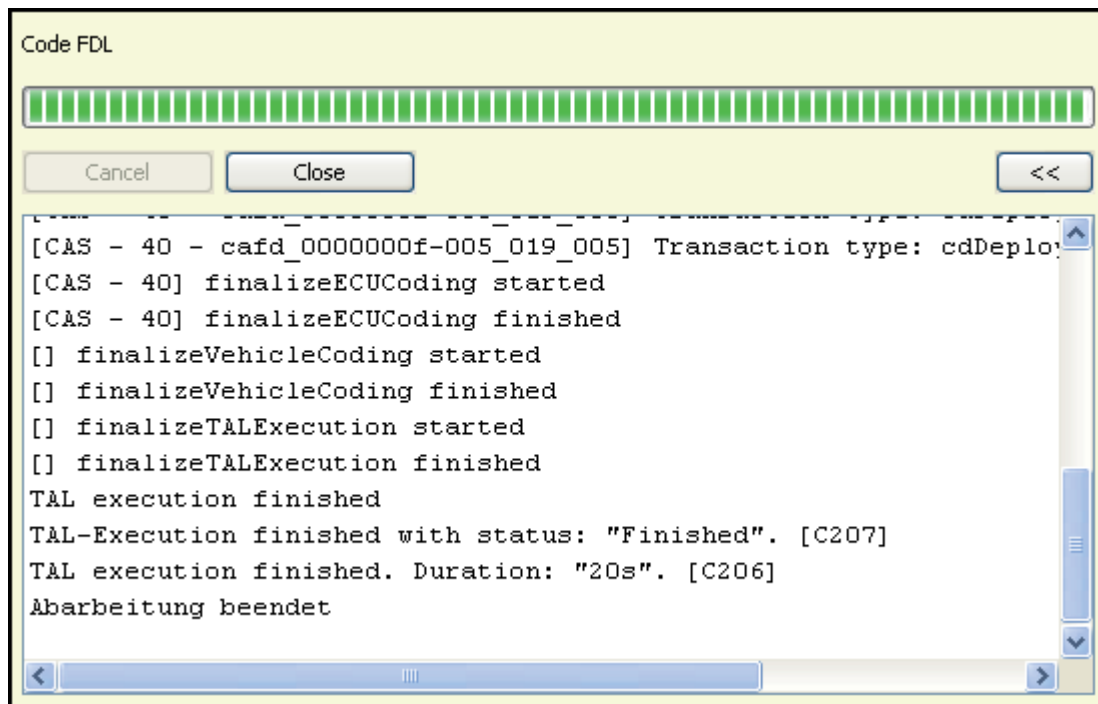Step 17: Once saved, click the green back arrow

Step 18: Select the CAFD file that you just edited and then click "CODE FDL"
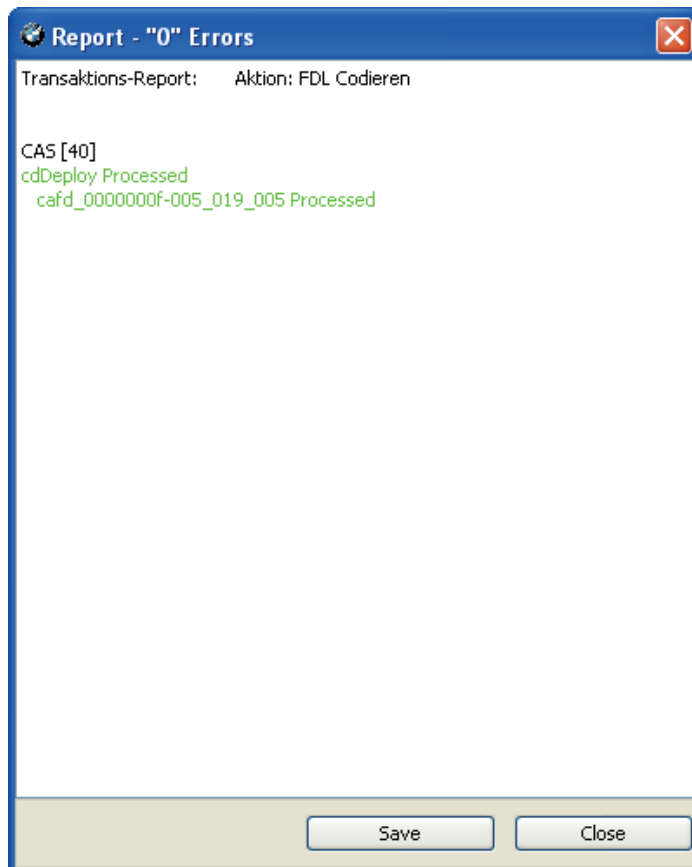

Step 19: Coding FDL (progress)

Step 20: After it completes, Click "Close"

Code FDL

[CAS – 40 – cafd_0000000f-005_019_005] Transaction type: cdDeplo
[CAS – 40] finalizeECUCoding started
[CAS – 40] finalizeECUCoding finished
[] finalizeVehicleCoding started
[] finalizeVehicleCoding finished
[] finalizeTALExecution started
[] finalizeTALExecution finished
TAL execution finished
TAL-Execution finished with status: "Finished". [C207]
TAL execution finished. Duration: "20s". [C206]
Abarbeitung beendet

Cancel   Close   <<

Step 21: Error report will open, view and click "Close" (or save if necessary)

Report - "0" Errors

Transaktions-Report: Aktion: FDL Codieren

CAS [40]
cdDeploy Processed
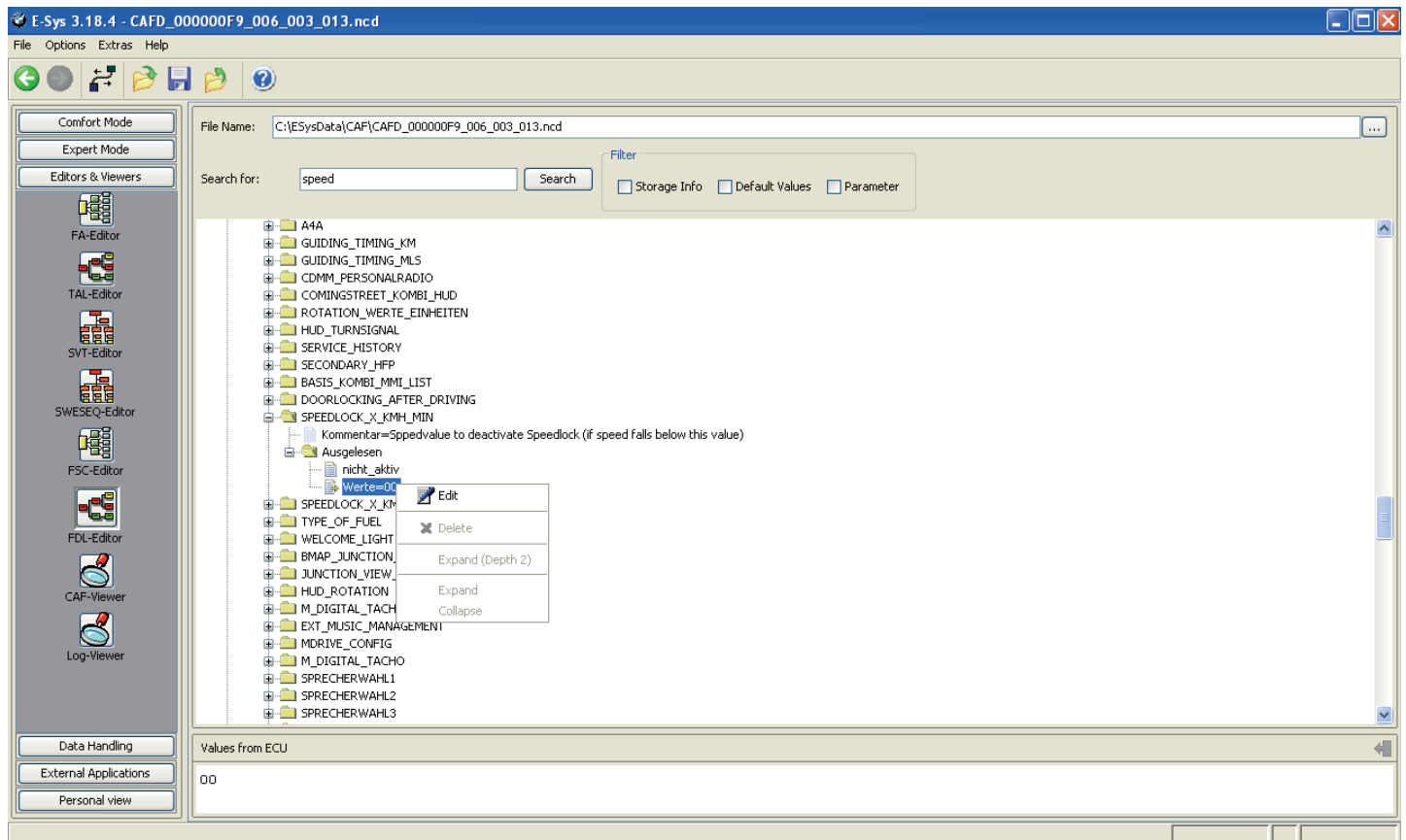   cafd_0000000f-005_019_005 Processed

Save   Close

Cycle key and test for function. In my case, "0 errors" so it should work. I tested the new function and windows rolled up via remote by pressing and holding the lock button.
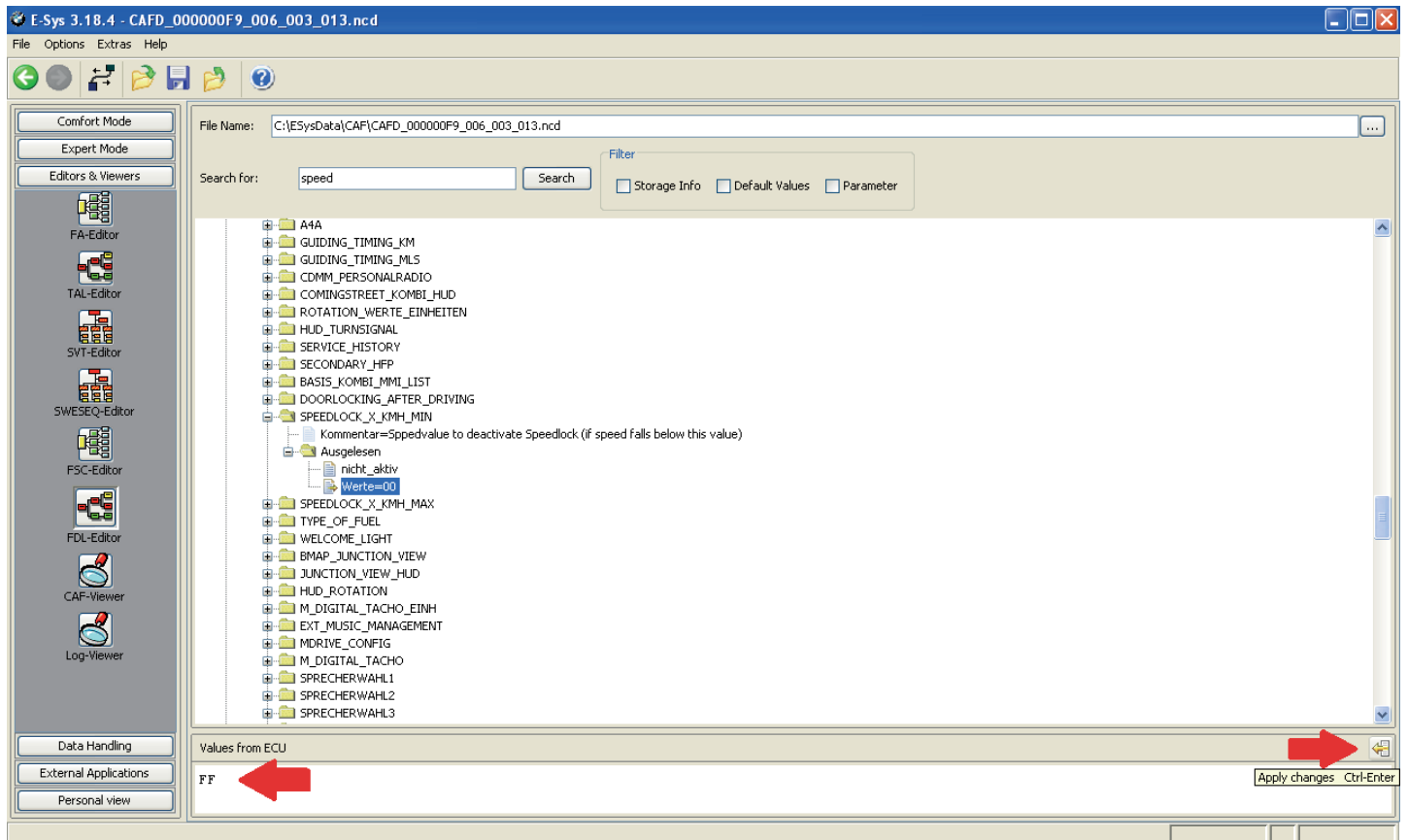
How to: Change Werte Values

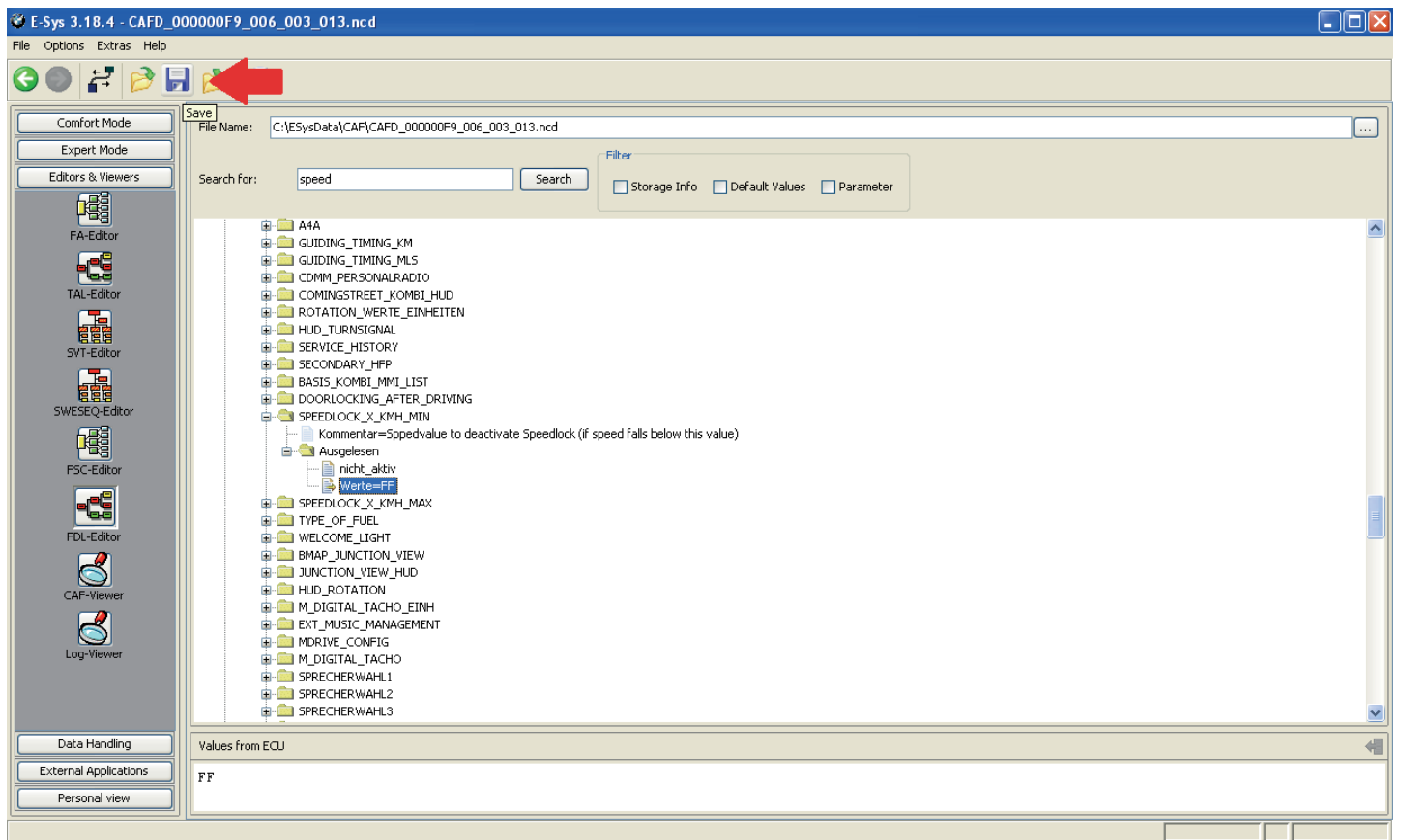Continuing from FDL CODING GUIDE above (after step 13)

Step 14b: This time right click on the werte value, Click "Edit"

15b: The option to change the value is in the lower window. Replace current value with new, Click the button on the right.
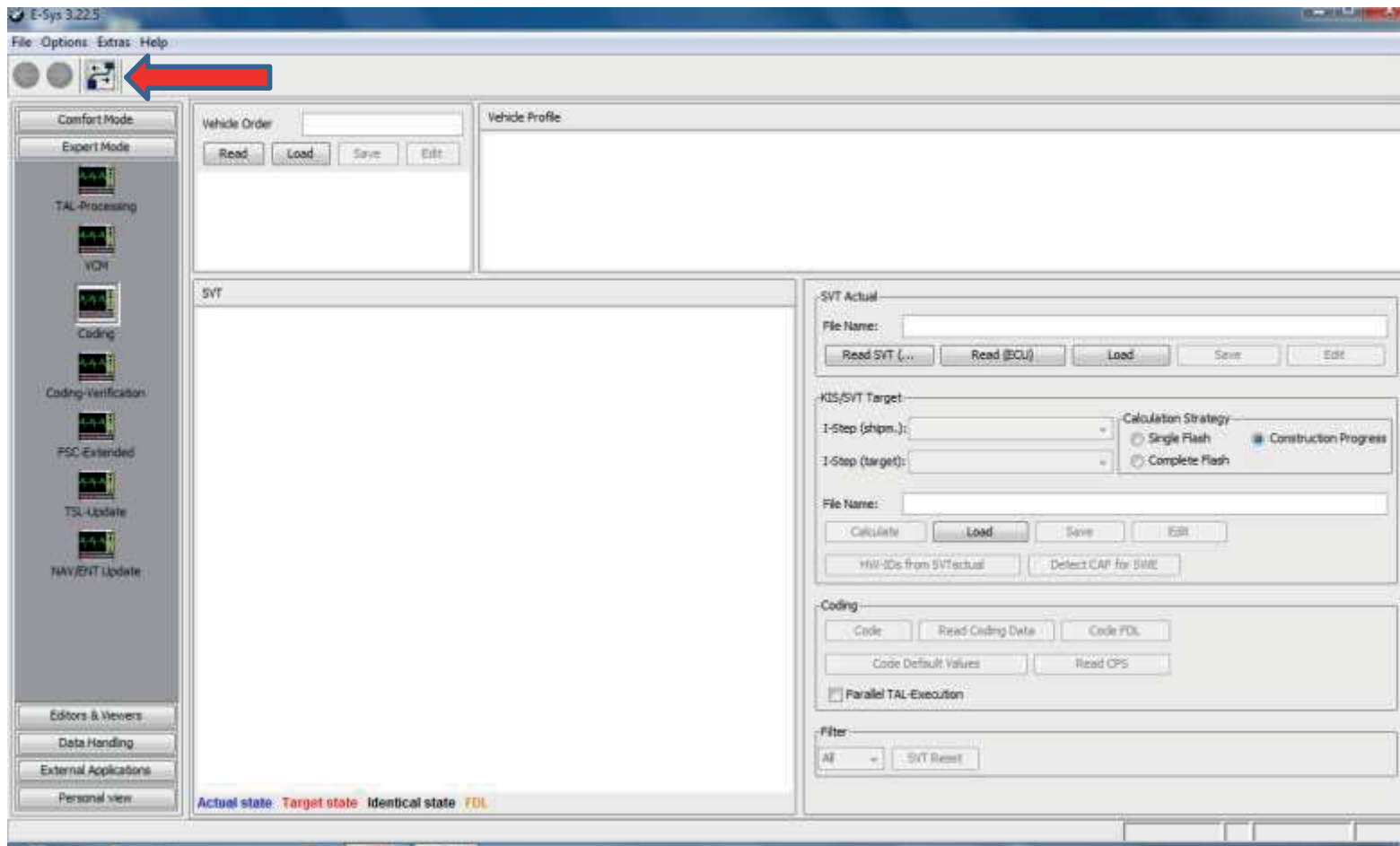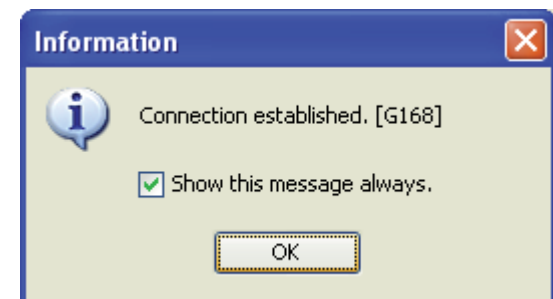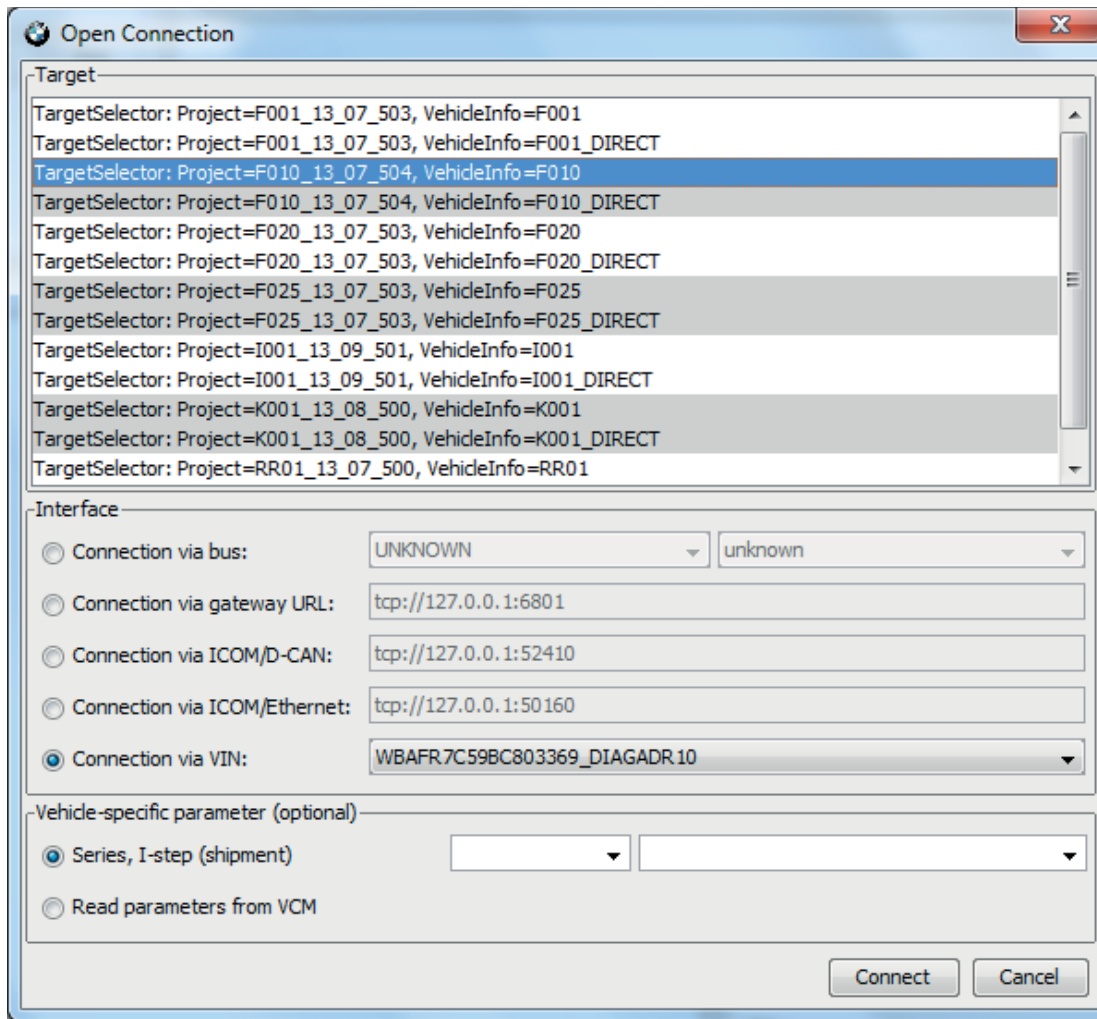

Step 16b: Save

Step 17b: Proceed to Step 18 in the FDL Coding Guide above and follow to the end.

How to change FA (VO) in F-series car
Version 8-24-2013

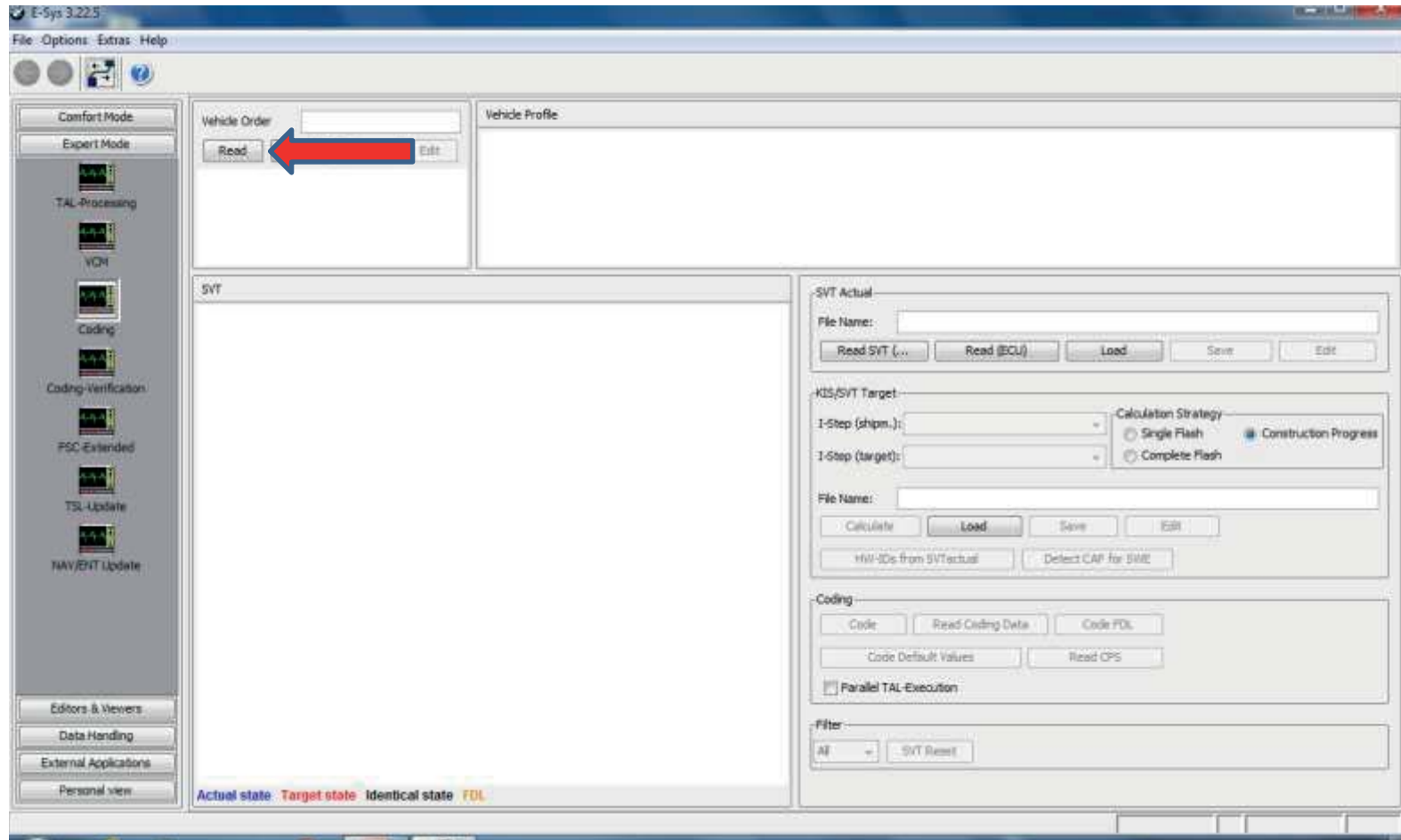Connect to the car by clicking icon at the top.

Select the correct TargetSelector, e.g. F010 (not F010_DIRECT) for an F10
Select "Connection via VIN" and press the "Connect" button.
(Ignore the Vehicle-Specific parameter options.)
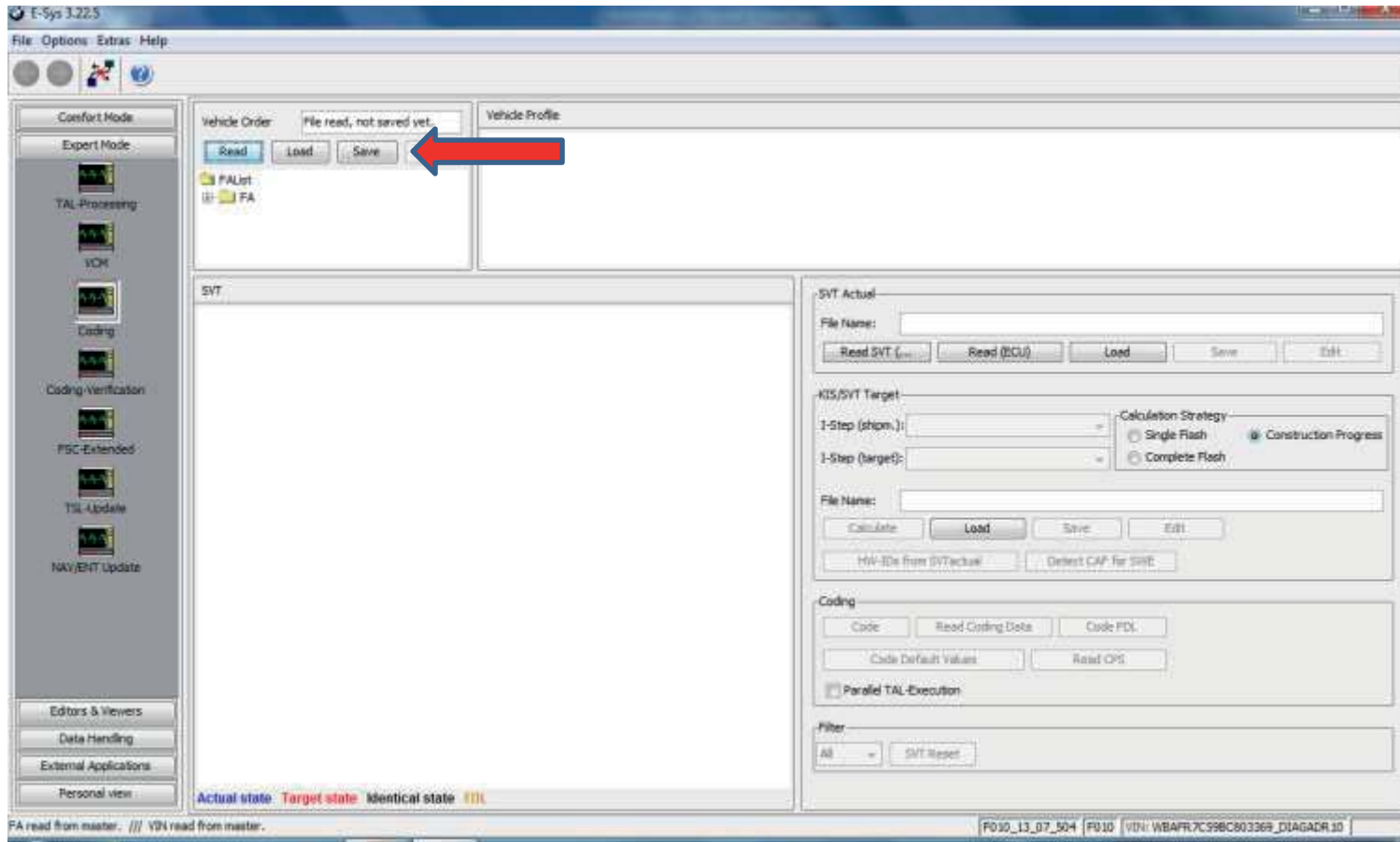Click OK in the popup box which appear when connection established.

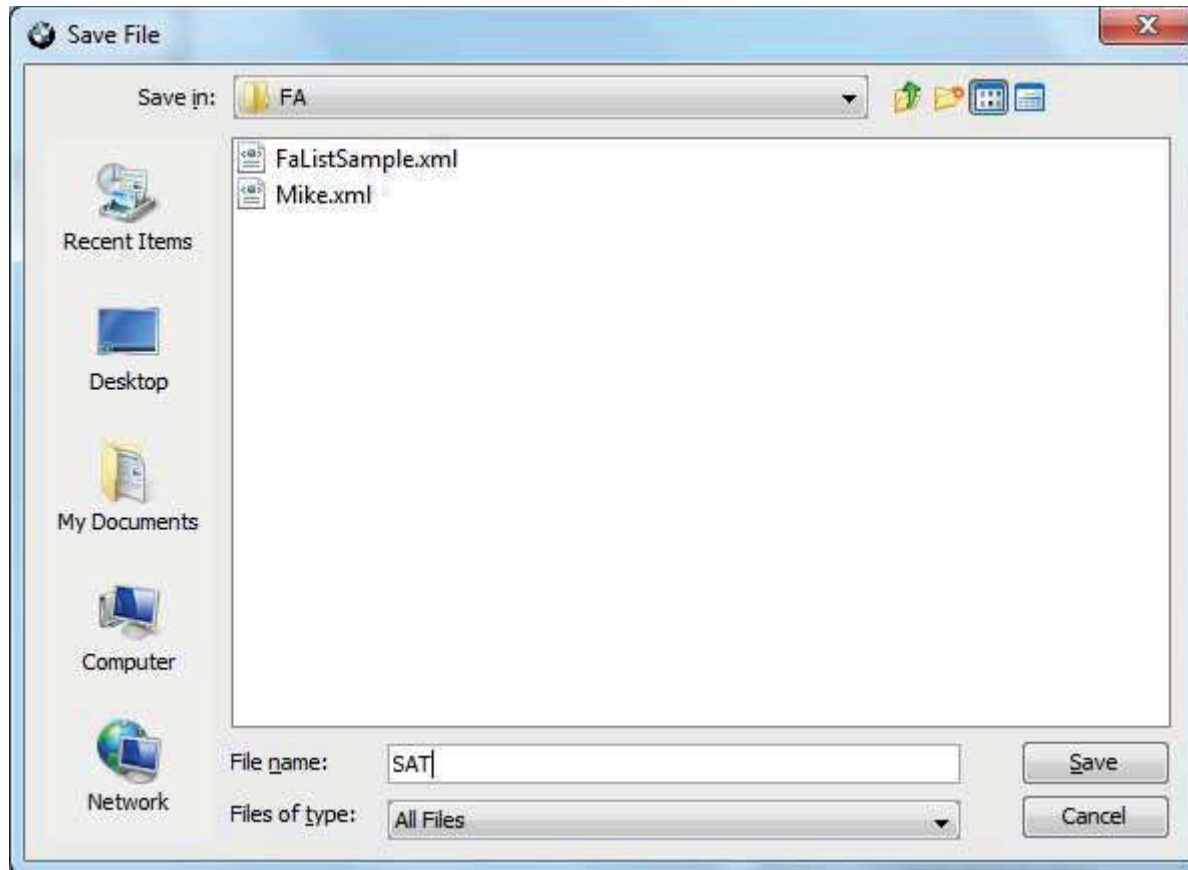Select "Expert Mode".
Click on the "Coding" tile.
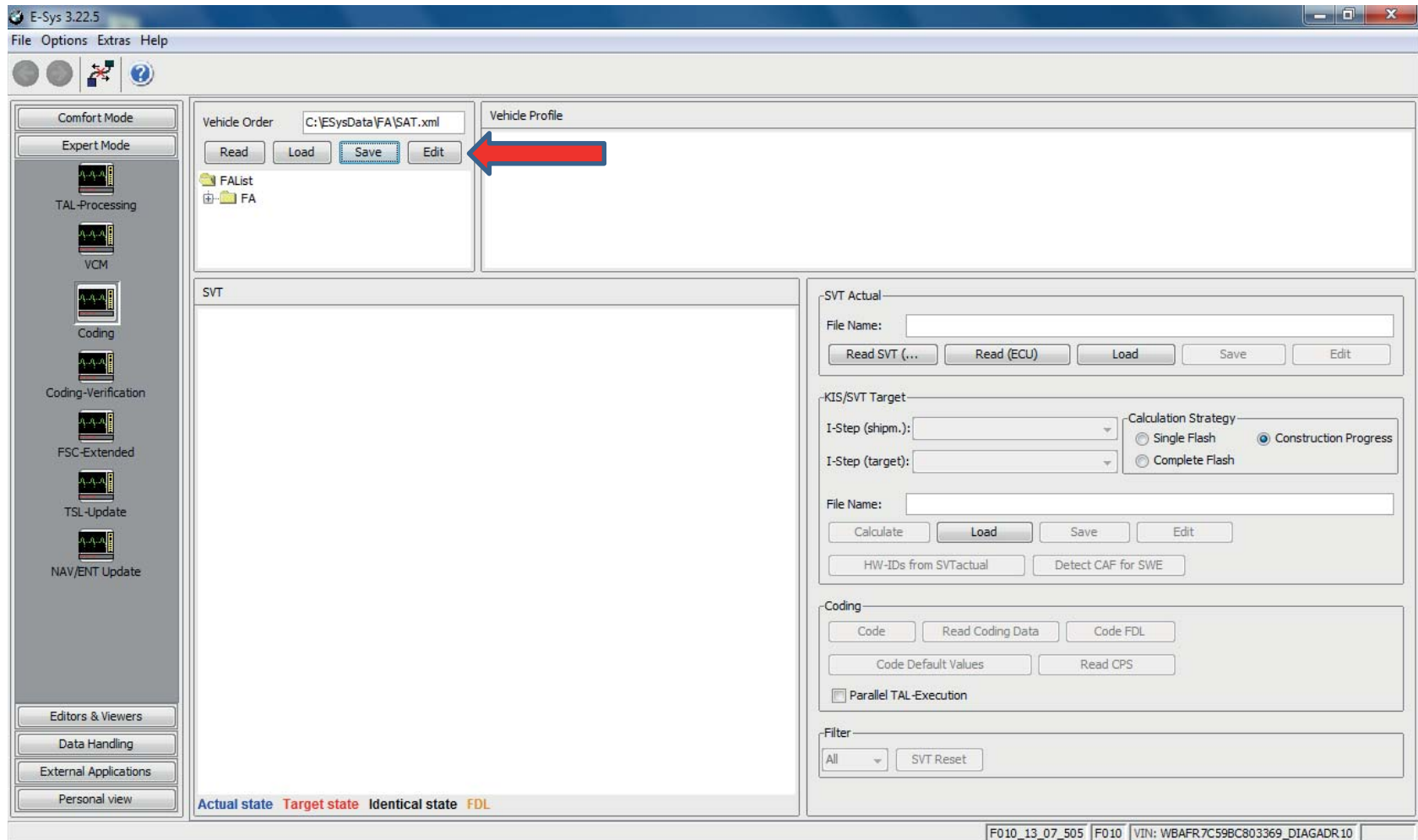In Vehicle Order Box, click on the "Read" button. This will display the car's FA .
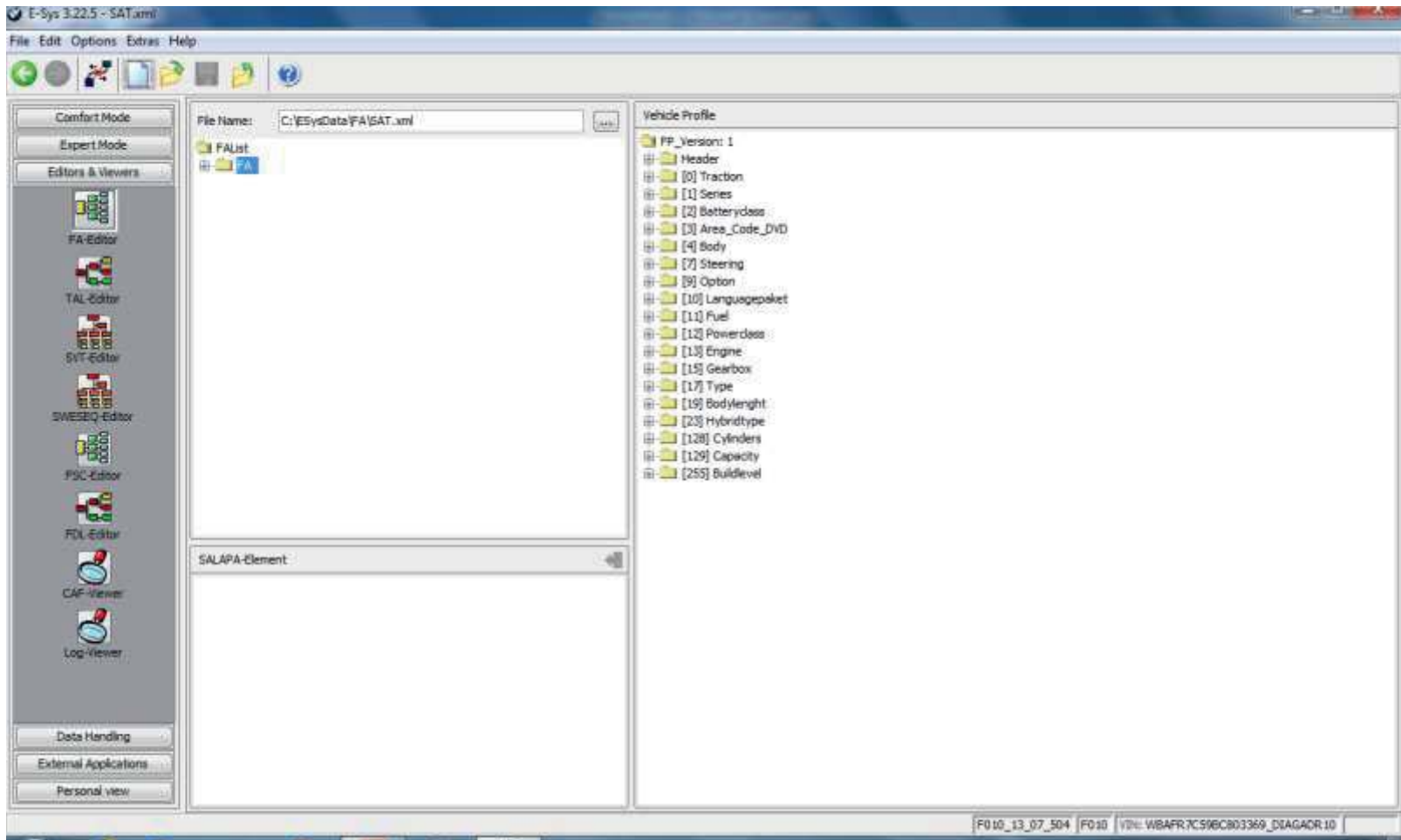
Click on the "Save" button.

Create a file name and Save it.
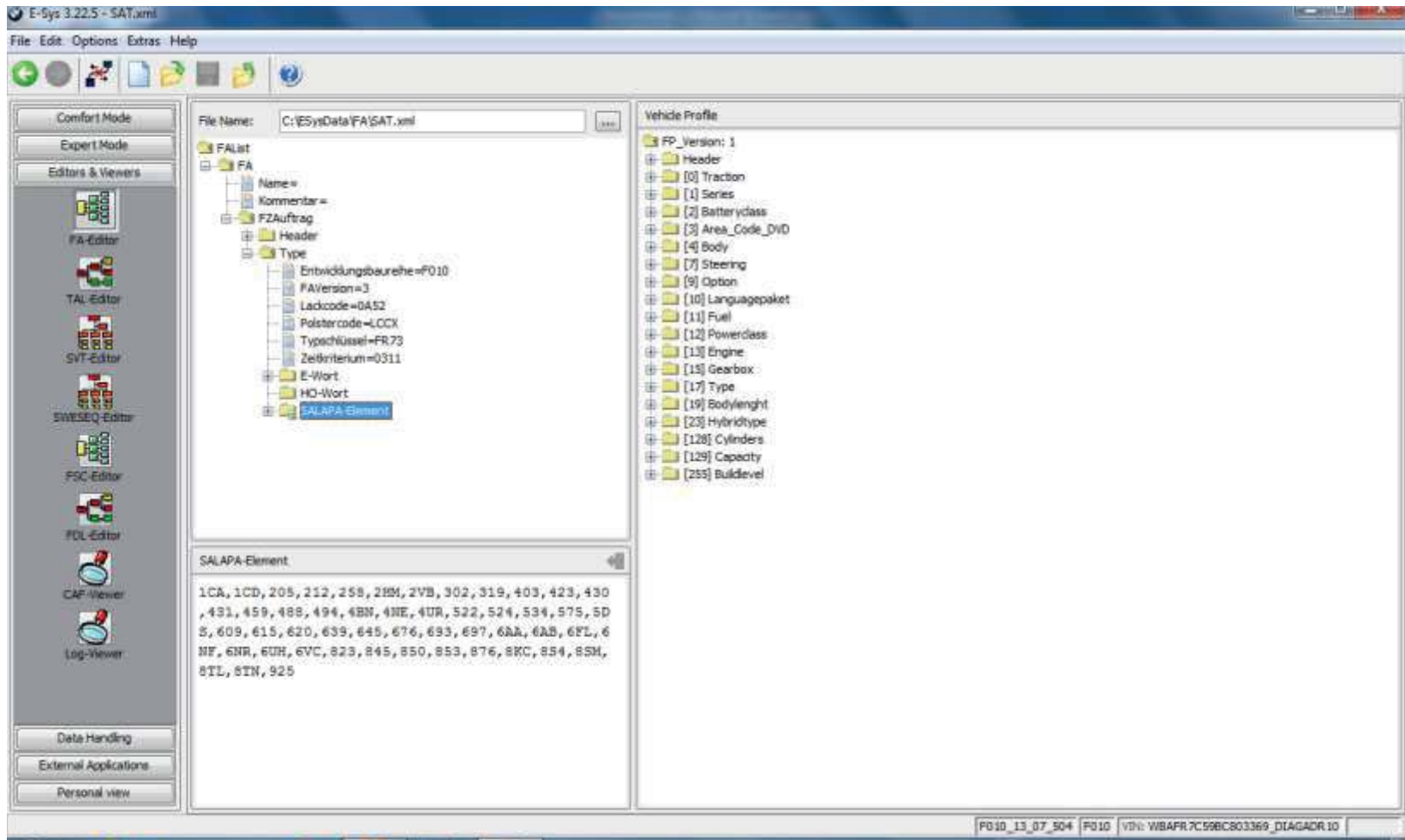(Note: In this example the file name is "SAT")
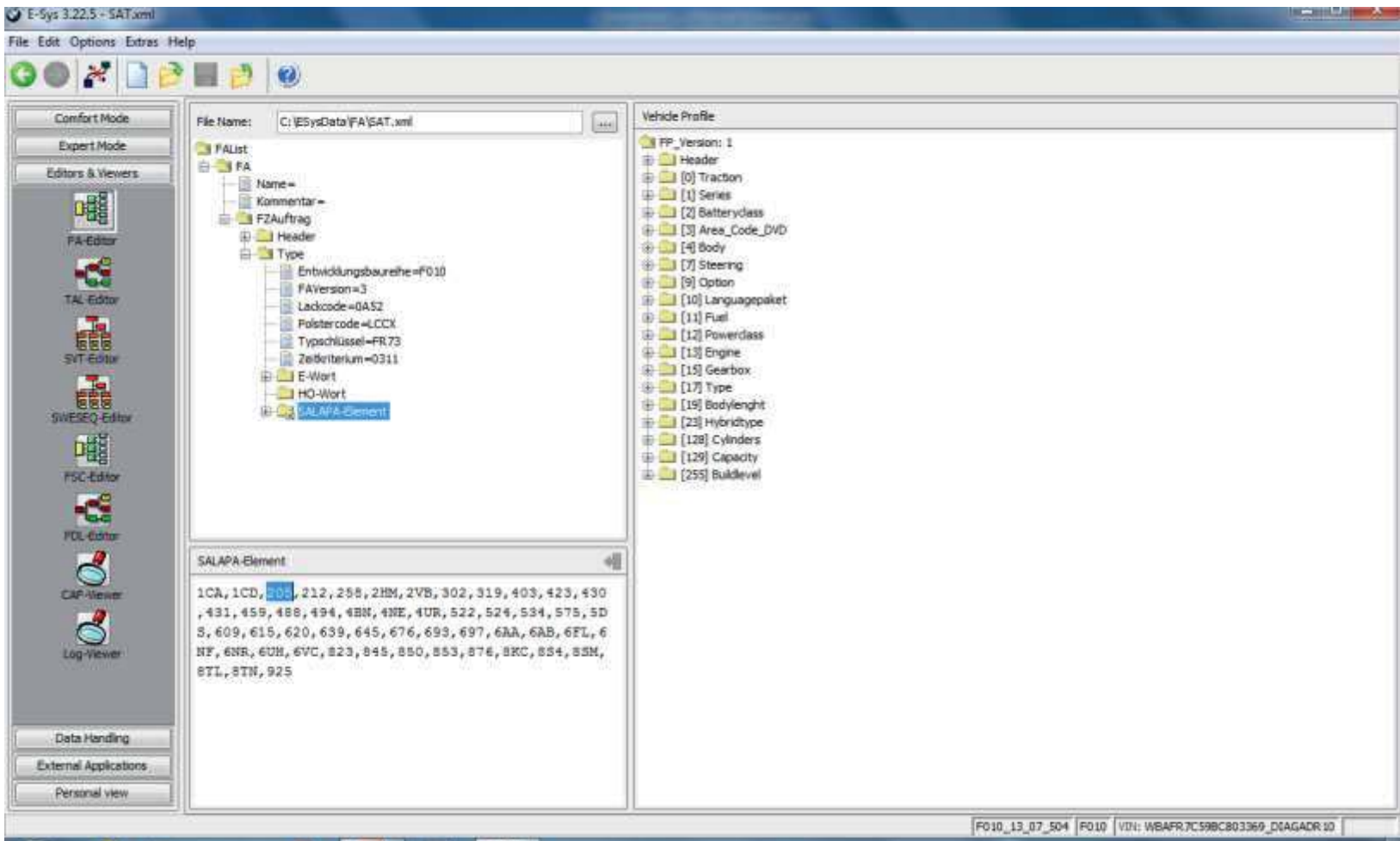
Click on the "Edit" button.

The view will automatically change to FA-editor.

Expand the FAList folder system on left until SALAPA-Element is visible.
Click on SALAPA-Element to select it.
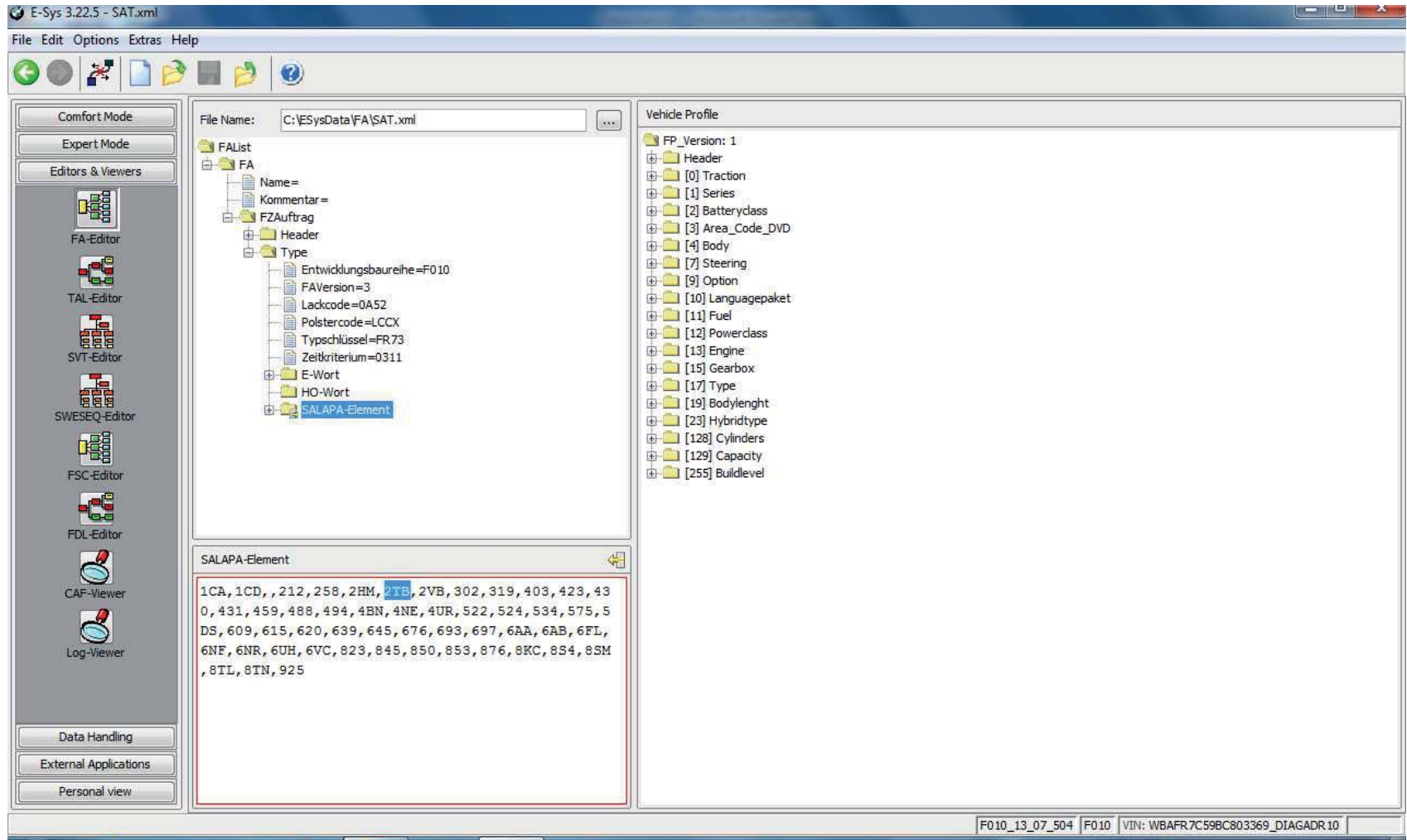You will see the SALAPA-Elements in the window at the bottom

Delete or add Elements directly into the bottom window.
In this example 205 is highlighted and will be deleted.
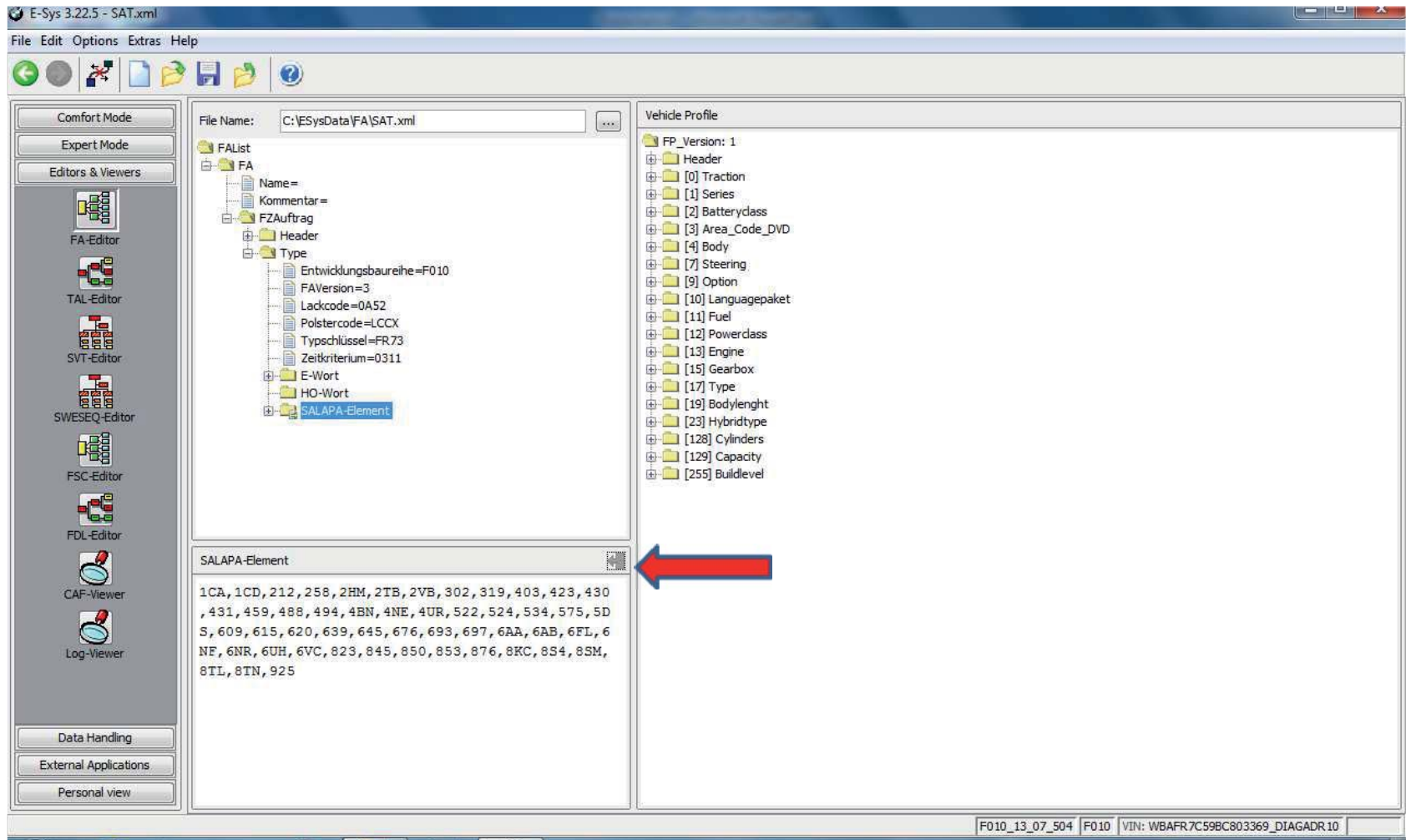The syntax is alpha-numeric and commas only, no spaces.

2TB has been added (and is highlighted for illustration purpose only.)
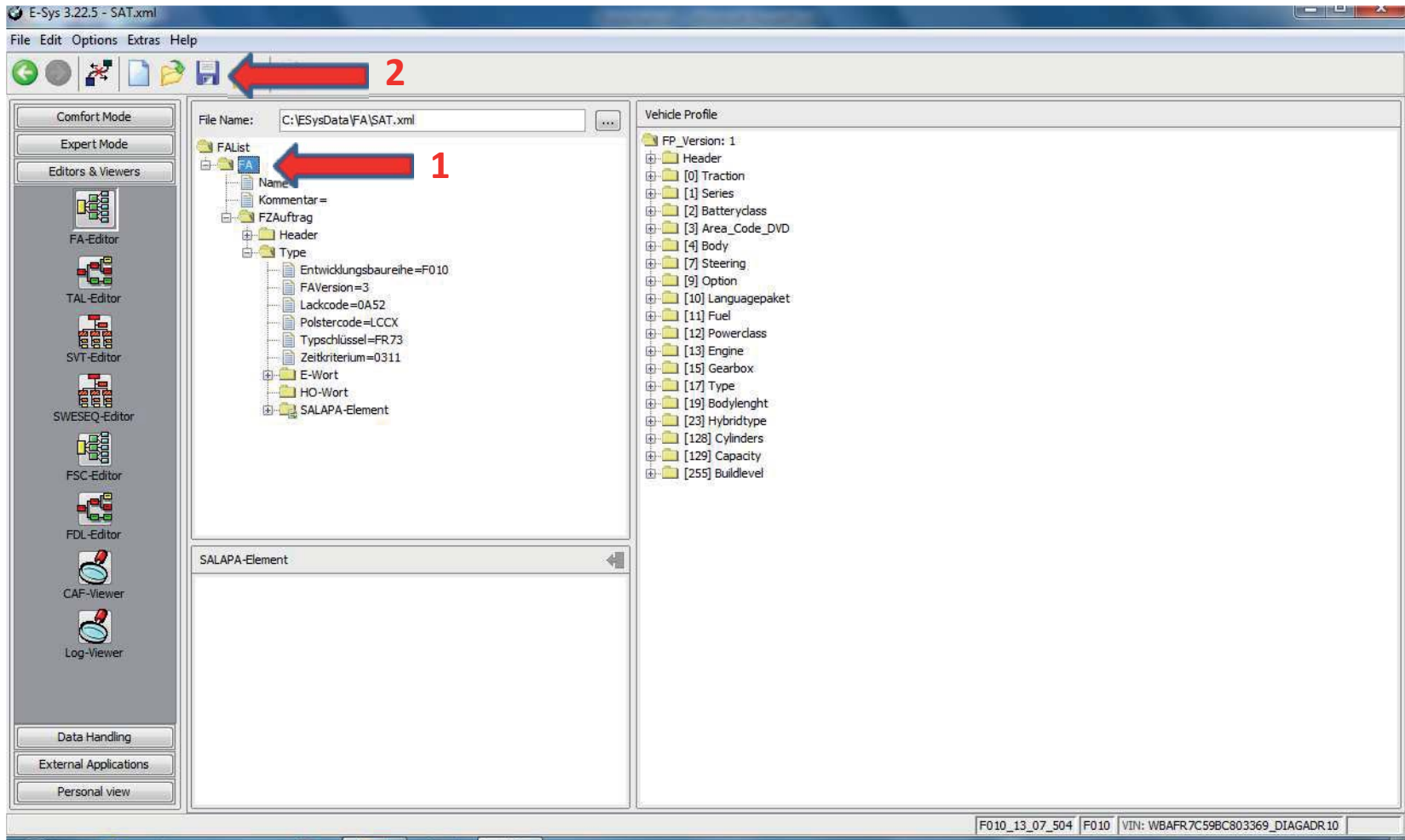Note that 205 is gone.
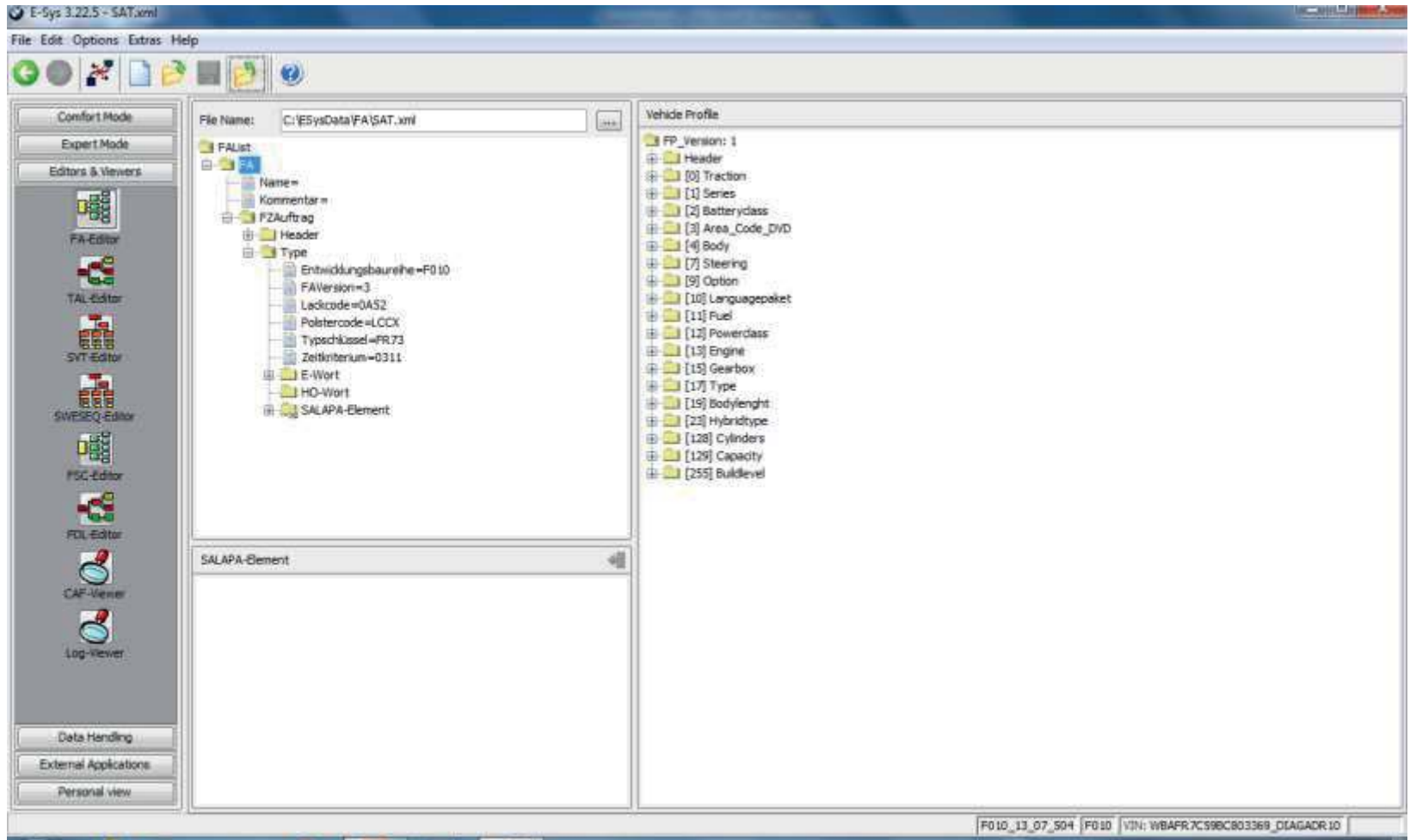The syntax is to add new elements in alphabetical order.

Click on the Save Changes Icon at the upper right corner of the lower window.
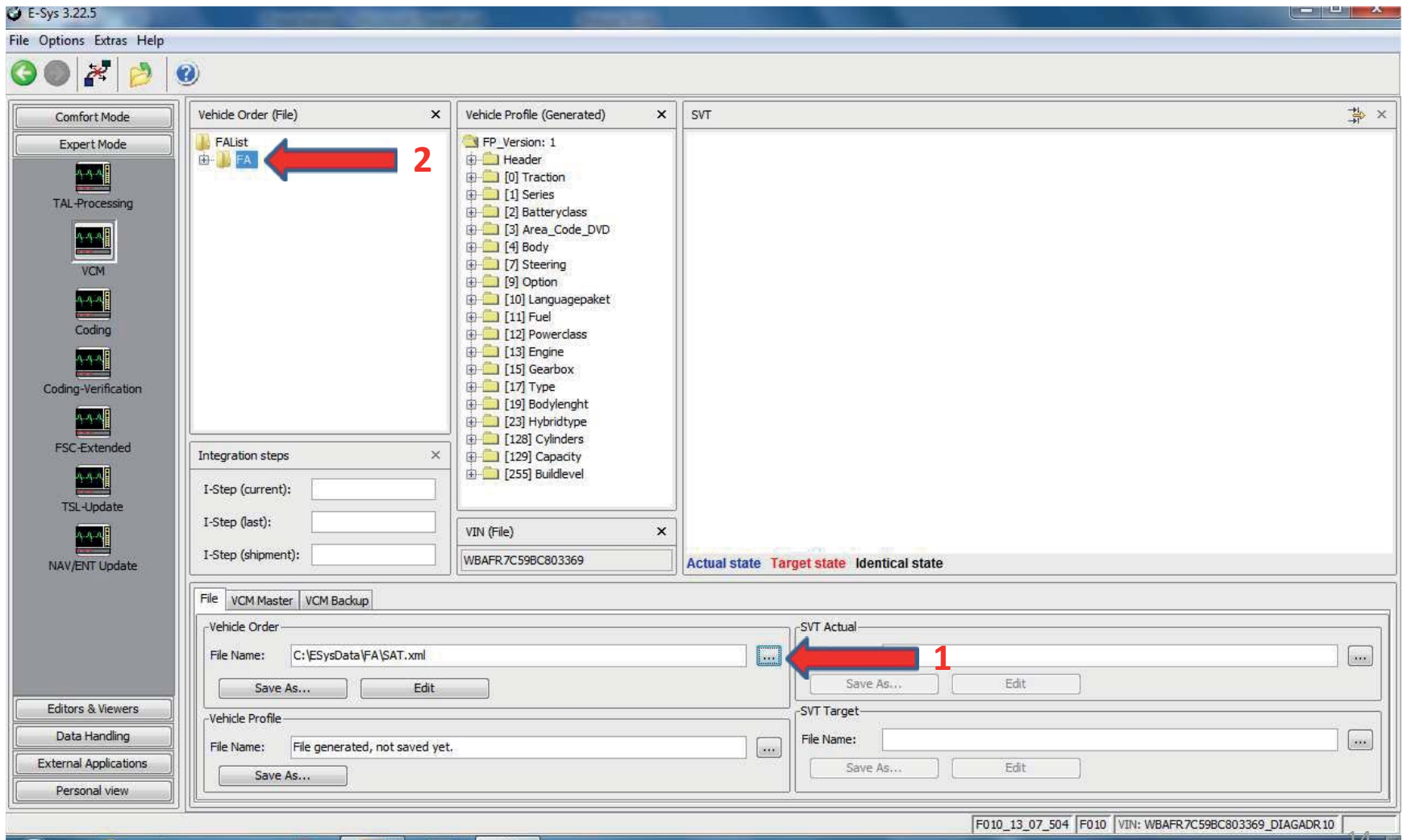
The edited FA must be verified before it can be written to car.
Right-click on FA and select Calculate FP.
If the FA has any errors, an error pop-up will be shown.
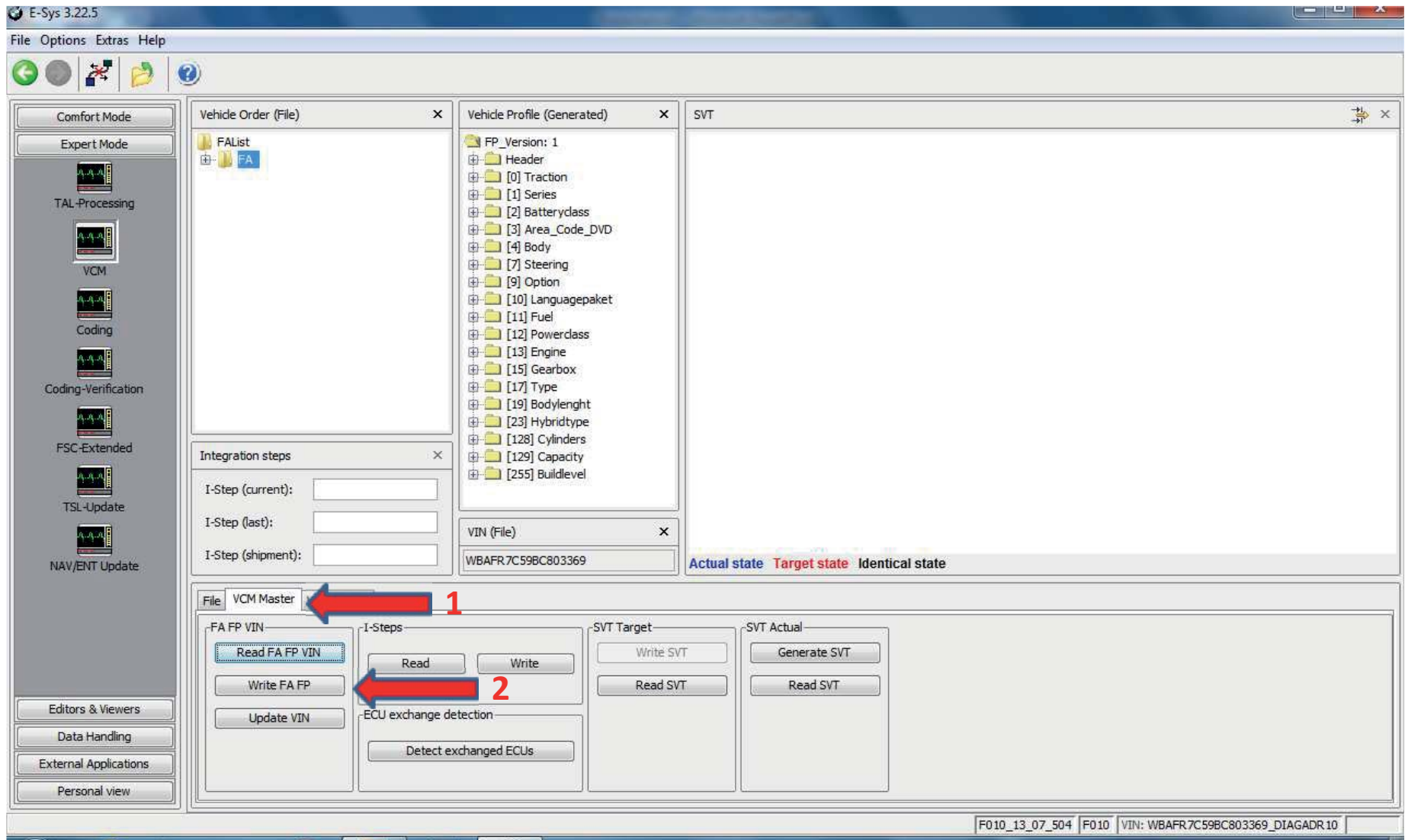After FP is calculated, WITHOUT ERROR, save the new FA.

The new FA has been saved

Select "Expert Mode"
Click on the "VCM" tile.
Load your saved FA file
Right-click on FA and Calculate FP again.

Select the "VCM Master" tab
Click on the "Write FA FP" button.
New FA will be written to the car.

What Next?

For the new FA to be used for configuring ECUs, follow these steps:

(Skip this if you have just completed the previous page)

Connect => Select "Expert Mode"

(If you have just completed the previous step, or are continuing from the previous page, start here)

Click on "Coding" button.

Read FA (VO).

Activate FA (VO).

Read SVT (…

Right-Click on ECU (the ECU itself not the underlying CAFD).

Select CODE.

Repeat for all ECUs applicable to your project