READ MODULE

1. Launch NCS Expert.

2. From the "File" menu, choose "Load Profile".

3. Select "NCS Dummy profile".

4. "VIN/ZCS/FA" button (F1).

5. "ZCS/FA f. ECU" button (F3).

6. Select your chassis.

7. Select one of the presented modules (for example "CAS", "EWS" or "EKM") and click "OK" (these are the modules where the ZCS or FA is stored in).

   After a short moment, the top group box should now show VIN and information regarding your car.

9. "Back" button (F6). The middle group box now shows the available modules and default job name.

10. "Process ECU" button (F4) (really means "Select ECU").

11. Select the desired module and click "OK". If you want to read all modules, you'll have to work module by module.

12. If "JOBNAME" in the middle group box already reads "CODIERDATEN_LESEN", carry on, else change job.

16. Click the "Execute job" button (F3) to start reading the module. The process takes only seconds. As said, NCS Expert may indicate it's coding but it's really only reading.

17. Log the *.C?? module description file name displayed right below "JOBNAME = CODIERDATEN_LESEN" in the middle group box (for example EKM.C25 for the E31 body electronics module). The *.C?? file is the module name that will be used in NCS Dummy.

WRITE MODULE

1. Launch NCS Expert.

2. From the "File" menu, choose "Load Profile".

3. Select "NCS Dummy profile".

4. "VIN/ZCS/FA" button (F1).

5. "ZCS/FA f. ECU" button (F3).

6. Select your chassis.

7. Select one of the presented modules (for example "CAS", "EWS" or "EKM") and click "OK" (these are the modules where the ZCS or FA is stored in).

   After a short moment, the top group box should now show VIN and information regarding your car.

8. "Back" button (F6). The middle group box now shows the available modules and default job name.

9. "Process ECU" button (F4) (really means "Select ECU").

10. Select the desired module and click "OK". Make sure the "FSW_PSW.MAN" manipulation file in C:\NCSEXPER\WORK\ is for the same module.

11. If "JOBNAME" in the middle group box already reads "SG_CODIEREN", skip the following steps and jump to 16.

12. Click the "Change job" button (F2).

13. In the "Choose job" dialog box, select "SG_CODIEREN" and click "OK". The default job action is now coding.

14. Confirm "JOBNAME" in the middle group box says "SG_CODIEREN".

15. "Execute job" button (F3) to start the actual coding. The process takes only seconds.

COMMON NCSEXPERT ERRORS

COAPI-1020: can not open file for reading - Make sure the FSW_PSW.MAN manipulation file is present in the C:\NCSEXPER\WORK\ folder, even if you don't intend to code. If the file is seemingly present, Windows may be fooling you by hiding the real extension. You may be seeing FSW_PSW.MAN, but the file may actually be called FSW_PSW.MAN.txt which obviously does not work. Disable the Windows functionality to hide extensions for known file types and fix the file name.

COAPI-1063: CABD-parameter error - This error occurs when you try to perform a job that is not supported by the module. The most common cause is trying to perform nettodata coding on a module that does not support it.

COAPI-1141: FSW faulty or COAPI-1142: PSW faulty - These error messages are usually caused after the FSW_PSW.MAN file was forgotten to be emptied after coding. Empty (not delete) FSW_PSW.MAN and the error message should be gone.

COAPI-1143: error during processing of CBD-file - If you modified NCS Expert DATEN files using the NCS Dummy disassembly tool, double-check your changes for errors. Otherwise check the FSW_PSW.MAN file for errors and make sure NCS Expert is using the correct module.

COAPI-2000: EDIABAS or SGBD error - This one can point at many different errors. If "VIN is faulty" is shown as well, your interface is probably not configured properly or you are using a wrong interface for the car. Some interfaces need pins 7 and 8 connected for certain BMW models and disconnected for others. Otherwise the error may indicate outdated NCS Expert DATEN files. Update the files in C:\NCSEXPER\DATEN\, C:\NCSEXPER\SGDAT\ and C:\EDIABAS\ECU\ to the latest versions.

COAPI-2020: no answer from ECU - You are trying to communicate with a module that is not installed or dead.