Low level HW bring up

1. **get Source code**
   Get the necessary software systems from MKS
   e.g. for BR213
   for BR213IC_EL: generic AC and the corresponding EL-GC
   for BR213IC_HL: generic AC and the corresponding HL-GC

2. **set AC in debug mode**
   Change the AC software to a development version. These version to not track if GC alive and makes no GC resets.
   You must set the following compiler switch to ON:
   ```
   #define SYSID__nContiDebugSwitch   (On)
   ```

   e.g. for BR213
   for BR213IC_EL in: pkg\admin\adapt\BR213IC_AC_EL_SOP\ sysid1ci.h
   for BR213IC_HL in: pkg\admin\adapt\BR213IC_AC_HL_SOP\ sysid1ci.h

3. **compile AC**
   Compile the changed AC software and generate flash files.

   e.g. for BR213
   for BR213IC_EL call: _11_BR213IC_AC_EL_SOP_target_install_and_build.bat
   for BR213IC_HL call: _21_BR213IC_AC_HL_SOP_target_install_and_build.bat

4. **flash AC bootloader and application**
   Flash the AC software (loader and application) in to the cluster. You can use FHOST, when a loader is available into the AC chip. Otherwise use the debugger ( blue bug) to flash loader and application into our cluster. After successfull flashing with debugger you must disconnect the debugger.

5. **reset AC IDL table**
   Flash the following file via FHOST into the cluster to reset the IDL table:

   e.g. for BR213
   for BR213IC_EL: \\cw01\root\Loc\bbuv\did35794\14_SW\20_SW_Releases\Special\02_E003-EL_HwInit\50_001_BR213AC-EL_E003_IDL\001_BR213AC-EL_E003_IDL.prg
   for BR213IC_HL: \\cw01\root\Loc\bbuv\did35794\14_SW\20_SW_Releases\Special\03_E003-HL_HwInit\50_001_BR213AC-HL_E003_IDL\001_BR213AC-EL_E003_IDL.prg

6. **format AC FEE**
   Flash the following file via FHOST into the cluster to format the FEE:

   e.g. for BR213
   for BR213IC_EL: \\cw01\root\Loc\bbuv\did35794\14_SW\20_SW_Releases\Special\02_E003-EL_HwInit\60_002_BR213AC-EL_E003_EEP_Format\002_BR213AC-EL_E003_EEP_Format.prg
   for BR213IC_HL: \\cw01\root\Loc\bbuv\did35794\14_SW\20_SW_Releases\Special\03_E003-HL_HwInit\60_002_BR213AC-HL_E003_EEP_Format\002_BR213AC-EL_E003_EEP_Format.prg

7. **set AC SDF values**

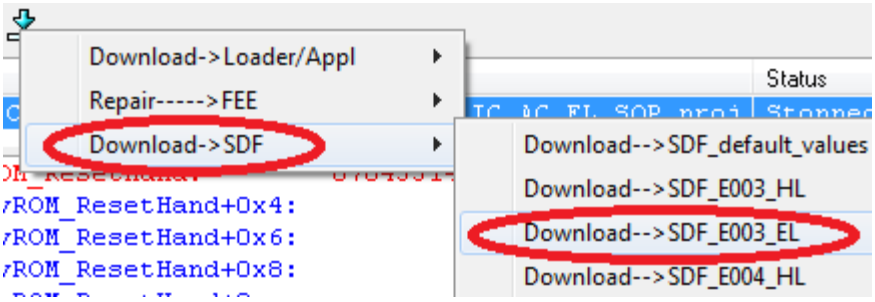
The steps 5 and 6 deletes the AC internal SDF values (EL/HL detection for the software, ...). Now you must store again valid SDF values into the AC controller.

Connect and start the AC debugger with the blue bug (reflashing AC loader and application).

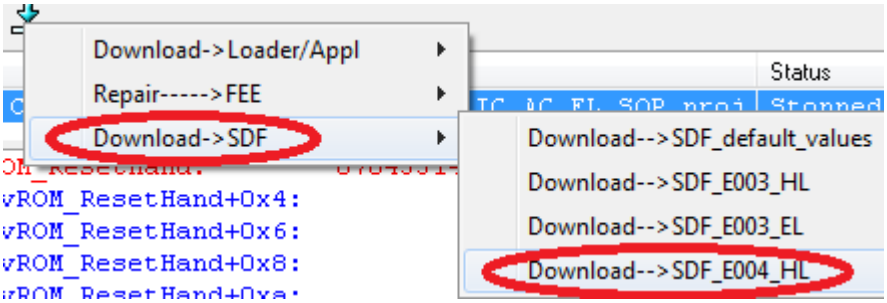
In debugger press and select for your project the right SDF values:

e.g. for BR213

for BR213IC_EL:



for BR213IC_HL:



8. **store dataset**

As last you should store a EEP- data set into the cluster. You will find the data sets on project drive:

e.g. for BR213

\\cw01\root\Loc\bbuv\did35794\15_Dataset\20_Releases

You can use our CanBusSimulation (ask Mr. Hans Jürgen Hipp) or BSKD7 (ask Mr. Hans-Joachim Lukas) to store the right dataset.

9. Flash GC