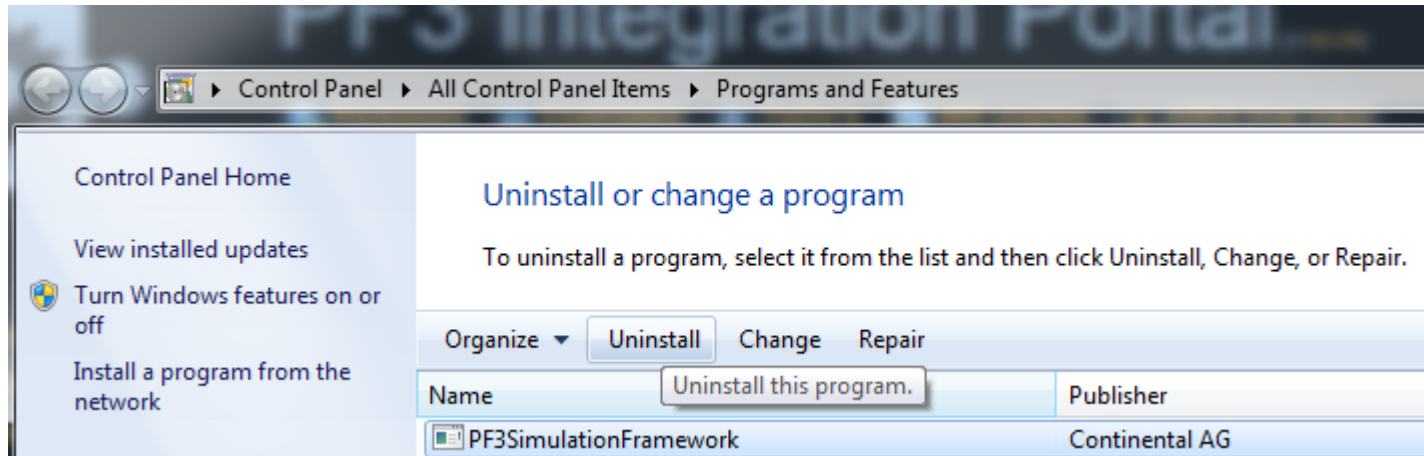


PF3 Simulation Framework 2.0

How to set up

- Uninstall older version (if installed)



- Install V2.0:
\\cw01.contiwan.com\root\Loc\bbuf\did35324\PF3\PF3_BasicTools\VS2005_AddIn_PF3\

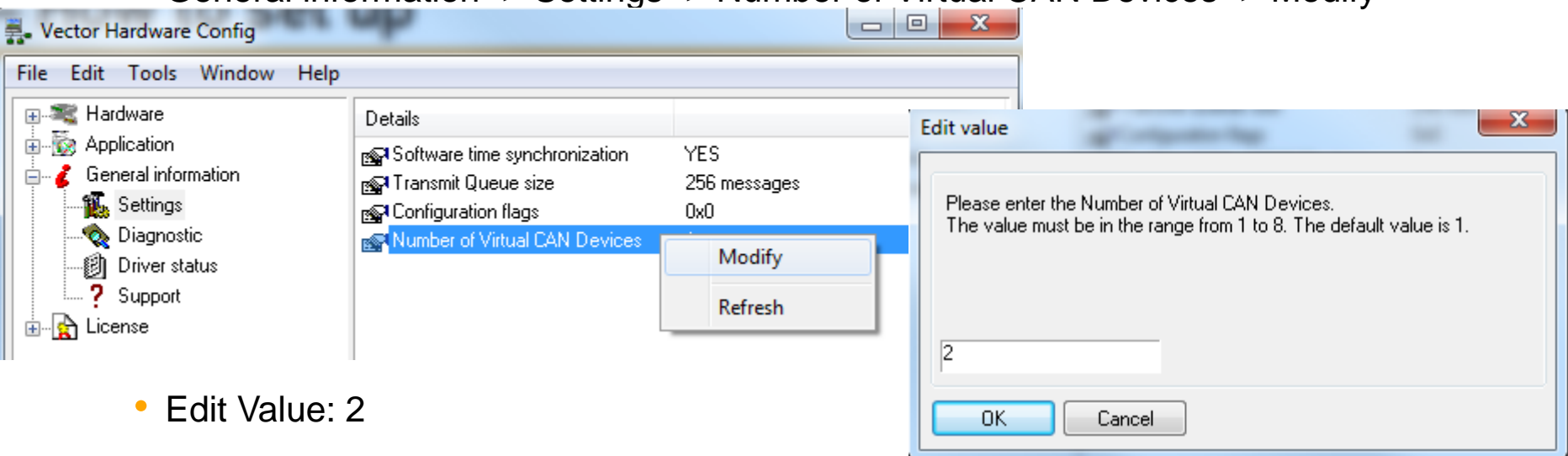
How to set up – HW CAN/SW CAN

➤ HW CAN: Connect channel 1 and channel 2 of your CAN case.

OR

➤ SW CAN:

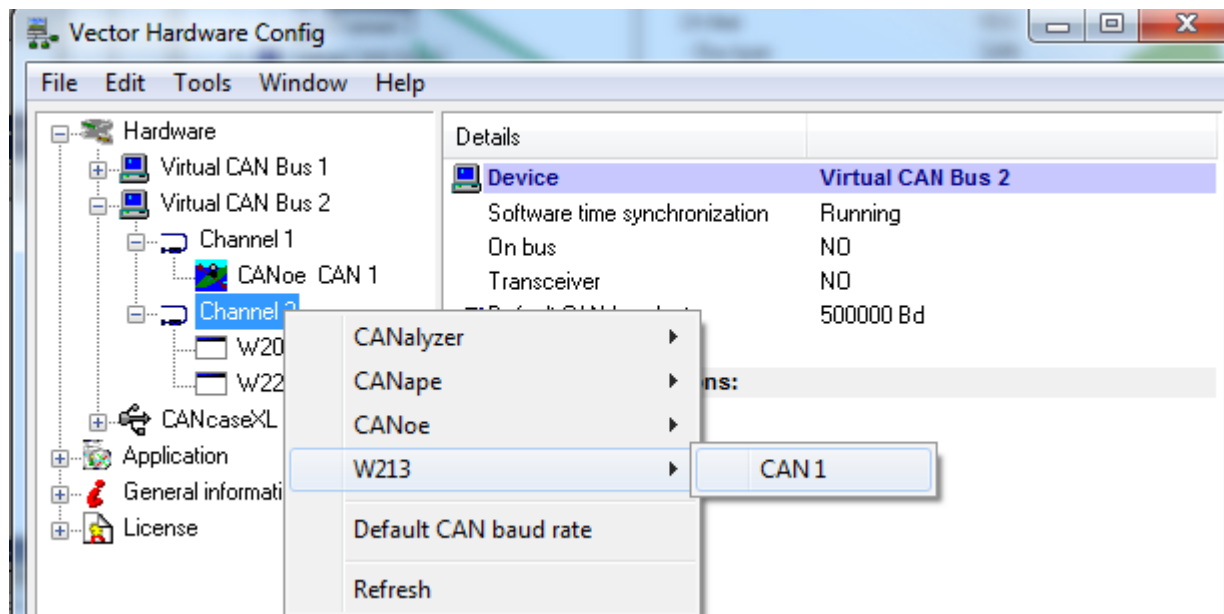
- Control Panel -> Vector Hardware
- General information -> Settings -> Number of Virtual CAN Devices -> Modify



- Edit Value: 2
- Restart Computer

How to set up – SW CAN

- After restart: Control Panel -> Vector Hardware
- Hardware -> Virtual CAN Bus 2 -> Channel 1 -> Assign CANoe CAN1
- Hardware -> Virtual CAN Bus 2 -> Channel 2 -> Assign W213/W222/W205 CAN1



How to switch between HW CAN/SW CAN after the initial setup

- **Only after** the initial setup you can switch between HW/SW CAN using the following batch files:
 - \\cw01.contiwan.com\\root\\Loc\\bbuv\\did35324\\PF3\\PF3_BasicTools\\VS2005_AddIn_PF3\\switch_to_HW_CAN.bat
 - \\cw01.contiwan.com\\root\\Loc\\bbuv\\did35324\\PF3\\PF3_BasicTools\\VS2005_AddIn_PF3\\switch_to_SW_CAN.bat
- The operation can also be done manually:

Switch to HW CAN:

- Control Panel -> Vector Hardware
- Hardware -> **CANcaseXL** -> **CANpiggy 251opto** -> Assign CANoe CAN1
- Note: **CANcaseXL** -> **CANpiggy 251opto** represents Channel 1 of your CANcase; names may be different depending on your actual hardware

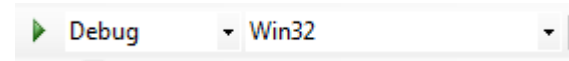
Switch to SW CAN:

- Control Panel -> Vector Hardware
- Hardware -> Virtual CAN Bus **2** -> Channel **1** -> Assign CANoe CAN1

How to prepare solution for Simulation

➤ 1. Open GC SW frame as usual: install.bat, goMSVCnet.bat

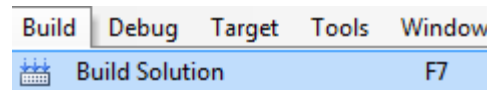
➤ 2. Switch MSVC solution from Multi2000 to Debug



➤ 3. Pre Build

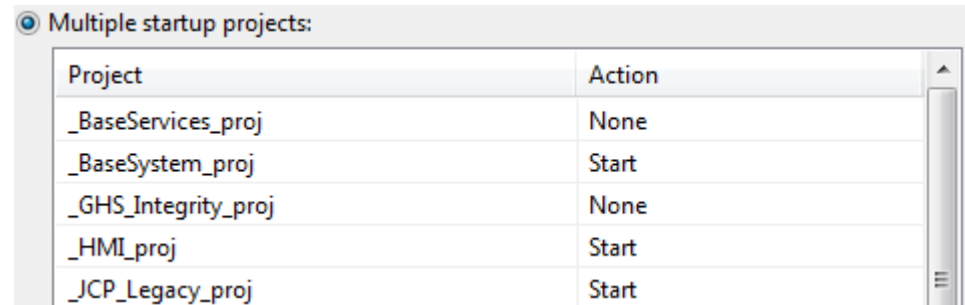
- 222/205: Pre Build -> Simu: HMI (EPF + RSST)
- 213HL: Pre Build -> Prepare Build Workspace

➤ 4. Build Solution (F7)



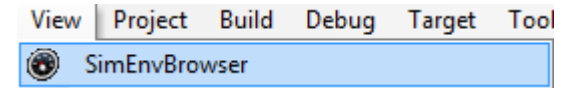
➤ 5. 213HL only:

- Right click solution
- Click “Set StartUp Projects...”
- Common Properties -> Startup Project
- Select “Multiple startup projects:”
- Set “_BaseSystem_proj”, “_HMI_proj” and “_JCP_Legacy_proj” to “Start”
- Only starting with E007pre35 set “_BaseSystem_proj”, “_HMI_proj”, “_JCP_Legacy_proj” and “_SafeGraphics_” to “Start”

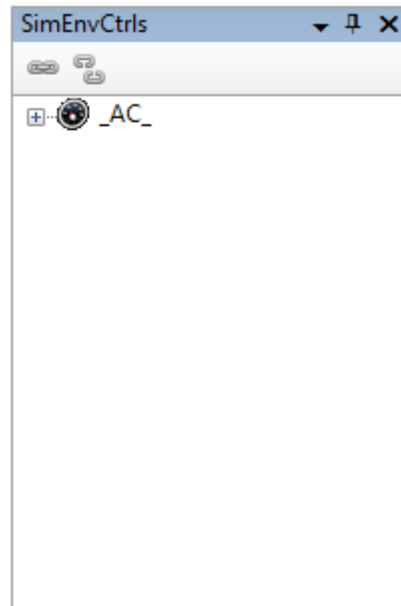


How to open Simulation Framework Browser

➤ Open Simulation Framework Browser: View -> SimEnvBrowser



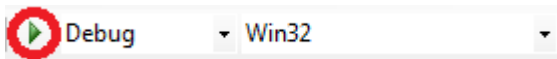
➤ => The browser is opened:



How to start/stop

➤ Switch MSVC Solution from Multi2000 to Debug

➤ Start Simulation via toolbar or F5



➤ Two windows should appear: IC Main Display and HUD Display

➤ Now you can use the project related CANoe simulation

➤ Stopping the Simulation is done via toolbar or Shift+F5



How to use

- Use the SimEnvBrowser to show the different visualizers.
- Expand the leaf corresponding to AC or GC tasks to see which views/editors are available for it.
- Double click an entry to show the corresponding visualizer.

The screenshot displays the SimEnvCtrl application interface with several panels open:

- Exea_HMI**: A table showing error logs.
- Cshdl_AC**: A table showing resource states and requests.
- Widgets_HMI**: A tree view of the HMI widget hierarchy.
- DIO_AC**: A list of channels with checkboxes.

Exea_HMI Table:

#	Err-ID	Mod-ID	Line	Misc	Cnt
0	RS3D_AssertionFailed	RS3D_ID	143	0	
1	GRLC_nExcWrongParameter	GRLC_Package	790	0	
2	GRLC_nExcWrongParameter	GRLC_Package	104	0	
3	AVICORE_Exc_TDNotReady	AVICORE_Package	65...	0	
4	WRS_Exc_GetMTextError	WRS_Package	13...	0	
5	AVICORE_Exc_TDNotReady	AVICORE_Package	65...	0	

Cshdl_AC Table:

ID	State	Request	State
RES_AC_Hardware	On	RES_AC_HardwareByATSTWakeupExeOnce	Inactive
RES_AC_Stepper	On	RES_AC_HardwareByEED	Inactive
RES_AR_SCHED	On	RES_AC_HardwareByEEDBgTaskDownload	Inactive
RES_Active	On	RES_AC_HardwareByEEDPendingUpload	Inactive
RES_Backlight_Check	On	RES_AC_HardwareByEEDReset	Inactive
RES_Backlight_Init	On	RES_AC_HardwareByEEDPC	Inactive
RES_Backlight_On	On	RES_AC_HardwareByESED	Inactive
RES_Boardtest	Off	RES_AC_HardwareByFEE	Inactive
RES_EEPROM	On	RES_AC_HardwareByIICB	Inactive
RES_EcuMActive	On	RES_AC_HardwareBySPI	Active
RES_EcuMGoSleep	On	RES_AC_StepperByMMCA	Inactive

Widgets_HMI Tree:

- IC_Root_IC_Root
 - IC_Root_Rendering_Debugger
 - IC_Root_KeyRouterContainer
 - IC_Root_BootControl
 - IC_Root_DCAppBootControl
 - IC_Root_GARContainer
 - IC_Root_DisplayHandler
 - IC_Root_SwitchIlluminationHandler
- HUD_Root_HUD_Root
 - HUD_Root_HudClearWidget
 - HUD_Root_HudBootControl

DIO_AC Table:

Channel
<input type="checkbox"/> P0_0
<input checked="" type="checkbox"/> P0_2
<input type="checkbox"/> P0_3
<input type="checkbox"/> ML_CAN_STB
<input type="checkbox"/> ML_CAN_EN
<input type="checkbox"/> P0_6
<input type="checkbox"/> P0_7
<input checked="" type="checkbox"/> P0_8
<input type="checkbox"/> P0_9
<input type="checkbox"/> P0_10
<input type="checkbox"/> P0_11
<input type="checkbox"/> P0_12
<input type="checkbox"/> ML_CAN_ERR
<input type="checkbox"/> P0_14
<input type="checkbox"/> P0_15
<input type="checkbox"/> P1_1
<input type="checkbox"/> MPS2AC_RESET_1V5S
<input type="checkbox"/> AC2MPS_EN_1V3S

Property Table:

Property	Value
Class	HMI_WFC_VisibilityController
HasController	false
IsTransparent	true
State	5
HasFirstTreeBuildDone	true
CommonWidget	false
CummulatedParentDoUpdate	true
DoUpdate	true
CummulatedParentEnable	true
Enable	true
CummulatedParentVisible	true

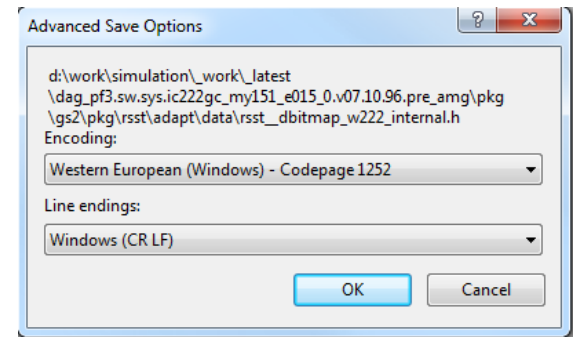
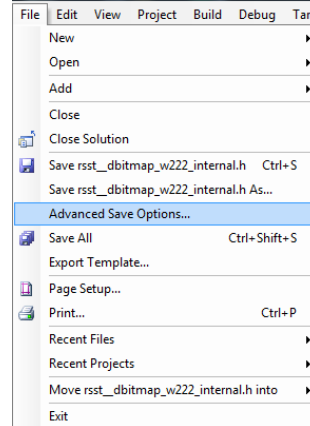
Tips & Tricks

➤ In case the following error occurs during build for Simulation:

Error List			
4 Errors 99 Warnings 0 Messages			
	Description	File	Line
100	error C4335: Mac file format detected: please convert the source file to either DOS or UNIX format	rsst_dbitmap_w222_i	1
101	error C4335: Mac file format detected: please convert the source file to either DOS or UNIX format	rsst_dbitmap_w222_i	1
102	error C4335: Mac file format detected: please convert the source file to either DOS or UNIX format	rsst_dbitmap_w222_i	1
103	error BK1506 : cannot open file '.\ide\tmp\vs\WRS_FinalHooks.sbr': No such file or directory	BSCMAKE	

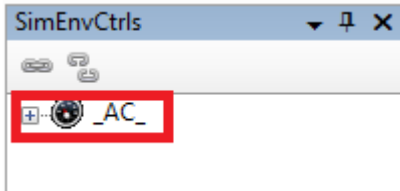
the following steps need to be taken:

- 1. Double click on the error so the “problematic” generated file is opened.
- 2. File -> Advanced Save Options
- 3. Select “Windows (CR LF)”
as Line endings
- 4. Click “OK”
- 5. Save the file (Ctrl+S)
- 6. Build Solution again (F7)



Tips & Tricks

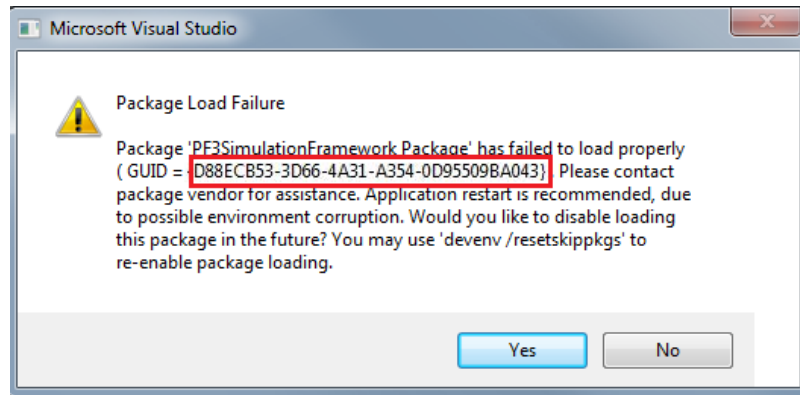
- Before starting the Simulation(F5) always wait for the AC software to be loaded. This can be checked in the SimEnvBrowser by the presence of the “_AC_” leaf



Tips & Tricks

(Only in case you had an older version of the PF3SimulationFramework installed)

- After the older version was uninstalled and the new version (2.0) was installed, in case you get the following error when opening Visual Studio:



- select “No” and close Visual Studio
- open regedit.exe and go to the following entry:
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\VisualStudio\8.0\AutoLoadPackages\{F1536EF8-92EC-443C-9ED7-FDADF150DA82}
- delete the sub-item corresponding to the GUID reported in the error message above.

