





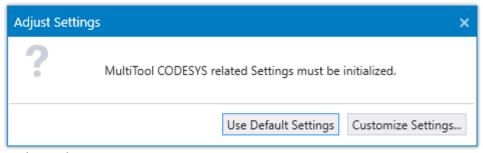
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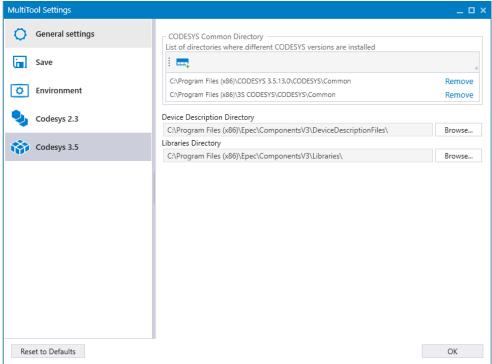


1. Upgrading CODESYS 3.5 SP6 project to CODESYS 3.5 SP13 (6000 series)

- 1. Install CODESYS 3.5 SP13 from Epec Extranet
- 2. Install SDK 3.1 from Epec Extranet
- 3. Open MultiTool 5.9
 - a. First time opening MultiTool version 5.9 there will be a pop-up about CODESYS related settings



- b. Select Use Default Settings
- c. It is important that CODESYS 3.5 SP13 is installed before the SDK 3.1
- 4. To check that settings are correct, navigate to FILE -> Settings -> Codesys 3.5



a. If following CODESYS version directories are not seen, select *Reset to Defaults* from bottom-left corner



- 5. Make a copy of a CODESYS project to another directory
- 6. Open the .net file with MultiTool 5.9 and upgrade the project
- 7. Change the *Device Description Version* to 1.4.x.x or newer
- 8. Change the CODESYS Profile to CODESYS 3.5 SP13
- 9. Select Create CODESYS Project
- 10. Copy the user code from the old project (made for CODESYS 3.5 SP6) to CODESYS 3.5 SP13 project
 - a. Code can be exported or drag-and-dropped to another project

NOTES:

- When upgrading Device Description Version, also upgrade a corresponding Runtime Version (e.g. Device Description Version 1.4.x.x is used with a Runtime Version 1.4.x.x)
 - For more information, please refer to MultiTool Manual on Extranet Programming manuals -> MultiTool Manual -> Getting Started ->
 Library Manager
- Runtime 1.4.0.1 or newer also requires FW 2.2.8 in order to be operational
 - About installing a new firmware, please refer to Epec Rescue Software for 6000 series User Manual on Extranet -> Programming manuals
 - $\circ~$ It is also highly recommended to have FW 2.2.8 with Runtime Version 1.3.1.0
- Device Description versions 1.4.x.x or newer are used only with CODESYS 3.5 SP13
- Upgrading a project with Device Description version 1.2.x.x to a newer (e.g. Device Description Version 1.3.x.x or 1.4.x.x) has changes on the code template
 - About the changes on the code template, please refer to MultiTool
 Manual on Extranet -> Programming manuals -> MultiTool Manual ->
 CODESYS Code Template -> Code Template Structure CODESYS 3.5
 - o An example of changes in global variables:

```
G CAN1 PAR.TestParametersl.TestParBYTE;

G CAN1 VAR.TestVariablesl.TestINT1;

G CAN1 RPDO.Frame TESTDword;

IO.AI X1 17;

PAR TestParametersl.TestParBYTE;

CANO TestINT1;

CANI Frame TESTDword;

AI X1 17;

//Parameter variable in NEW code template

//Parameter variable in OLD code template

//Parameter variable in OLD code template

//RPDO variable in OLD code template
```

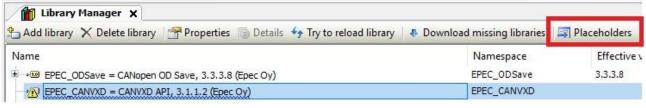


2. Updating CANVXD API library to 4.0.0.1 or newer

- SDK 2.9 includes a new version of the CAN VXD library. Installation of SDK 2.9 or newer
 - o removes the old CANVXD API version 3.1.1.2
 - installs updated library version 4.0.0.1.
- Projects made with MultiTool version older than 5.7 require manual changes to compile, these changes are described in the following pages.
- When using MultiTool 5.7 or later, following device description versions are recommended.
 - o 6107 device description 1.2.0.6 or later
 - 5050 device description 1.1.0.8 or later
 - These device descriptions use the new CANVXD API version by default
- All S-Series device descriptions require the new CANVXD API.
- After installing SDK 2.9 or newer, CODESYS projects made with SDK 2.8 / MultiTool 5.6 or older will generate build errors/warnings about missing CANVXD API library:

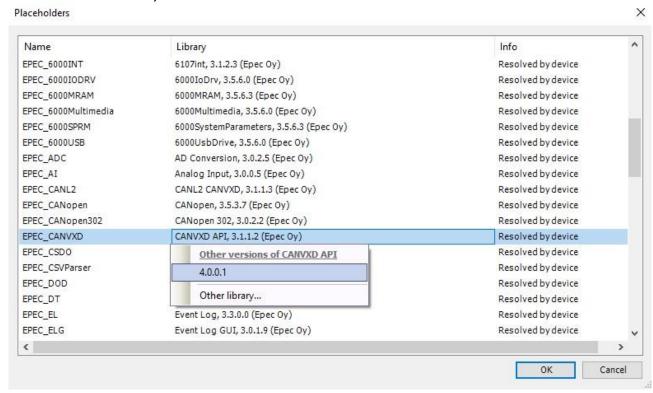


- When CODESYS Library Manager is opened, effective version for CANVXD API is not defined
- Update the used version by selecting *Placeholders* menu from Library Manager tab





 Select EPEC_CANVXD library version 4.0.0.1 from drop-down list from Library column



 Info column text will change to Resolved by placeholder redirection and show 4.0.0.1 as effective version.

Project will now build without errors

