

FAQ COMBIVIS studio HMI



Beckhoff ADS Driver

FAQ No.0002

Part	Version	Revision	Date	Status
en	4.0.1150.48	002	2019-01-01	Released

Content

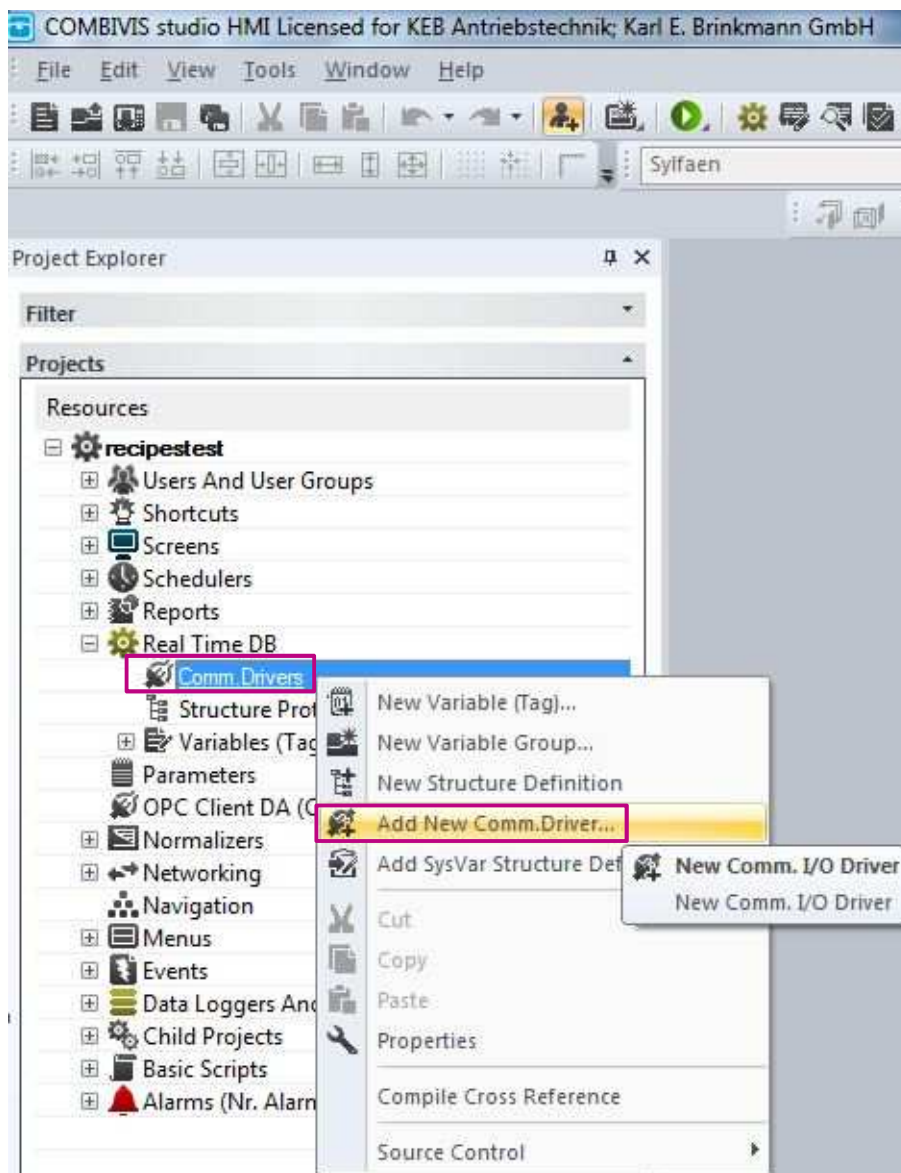
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Introduction

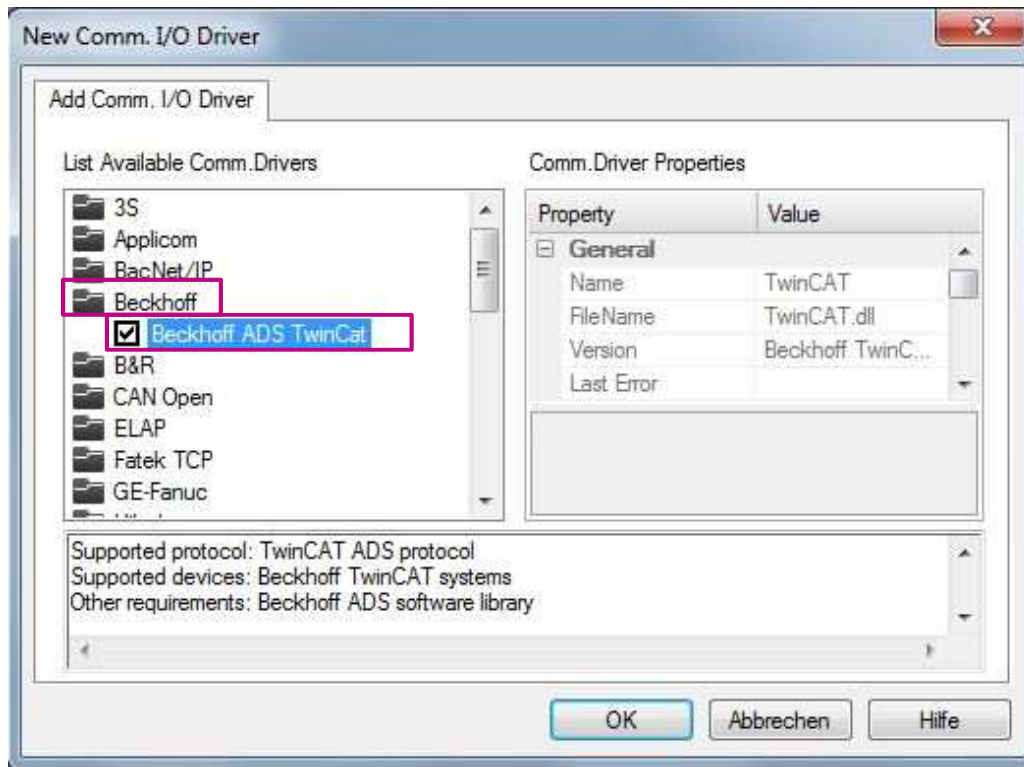
This Document contains a description how to add a Beckhoff communication driver and create the necessary driver-files on the C6-HMI and VISU for Windows CE.

Connect the KEB C6 HMI to a Beckhoff-PLC with WinCe system

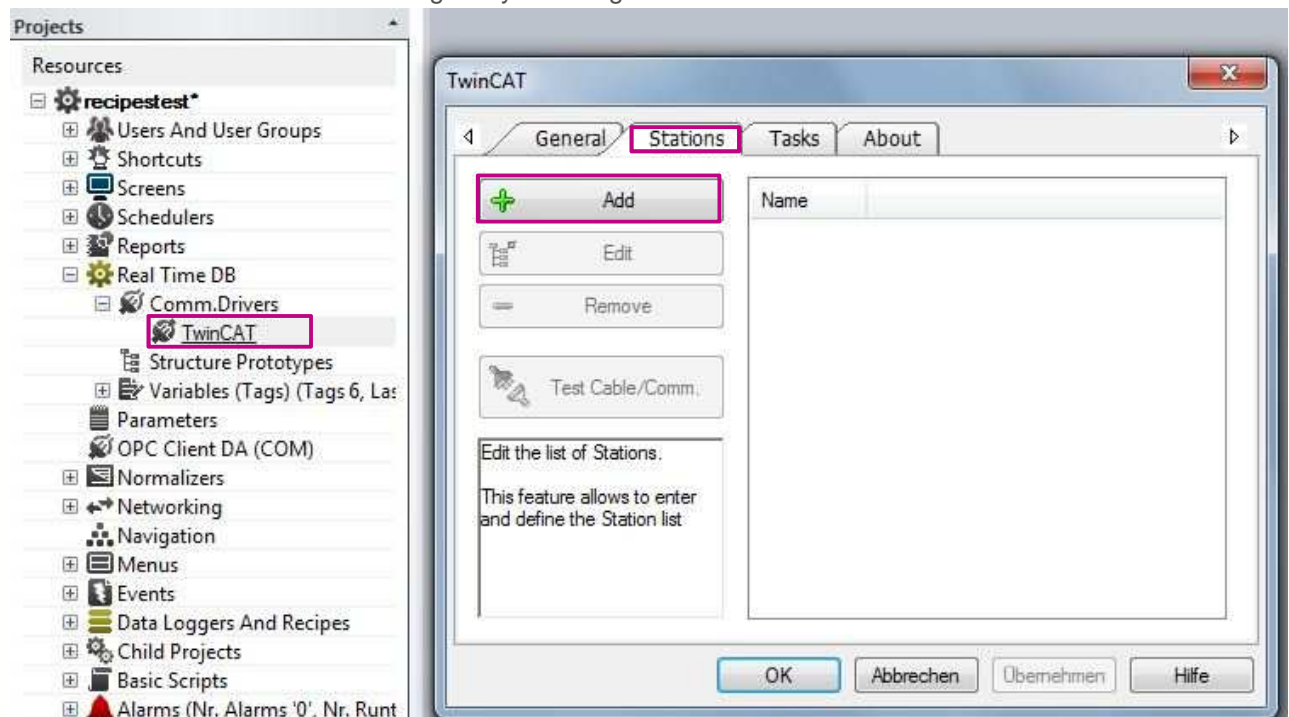
1. Add a new driver to “Project Explorer > Real Time DB > Comm. Drivers > Add New Comm. Driver...”



2. Choose the “Beckhoff ADS TwinCat,” driver and confirm it with OK.

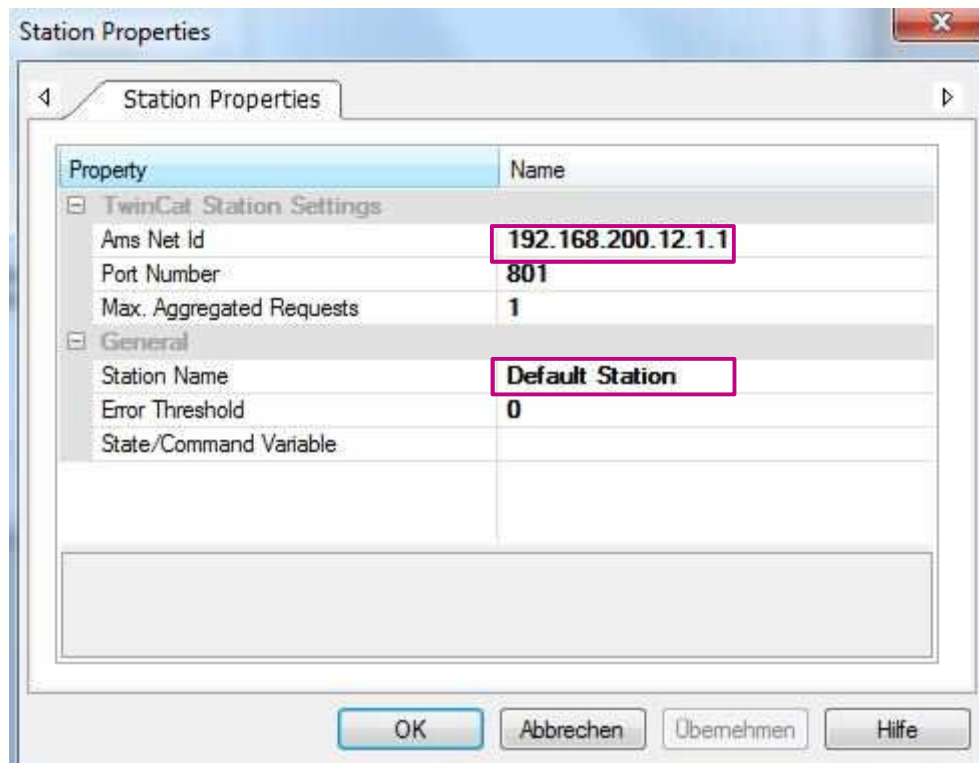


3. Double-click on the driver opens a new screen for the settings. Add a new station by the tab "Stations". The other settings stay unchanged.



4. Change the „**Ams Net Id**“ to the actual Beckhoff-PLC-address. The name of the station can be chosen randomly. The rest of the settings can stay as default-values.

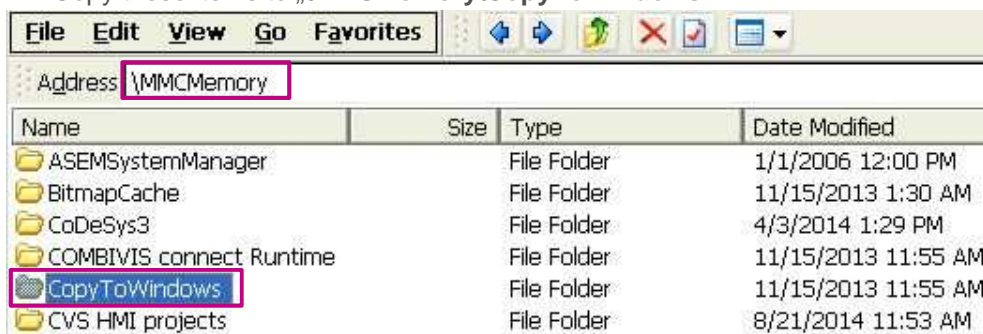
Note: The „**Ams Net Id**“ of the HMI have to be transferred to the Beckhoff PLC.



5. After adding the driver you have to copy the file **TcAdsDIICe.ARMV4I.CAB** from the installation-folder (eg.: **C:\Program Files\TwinCat\ADS ApiTcAdsDIICe\setup\TcAdsDIICe.ARMV4I.CAB**) of TwinCat to the desktop of the HMI. Run this file and the following files will be stored to the folder „**Windows**“ :

- „**TcAdsDIICe.dll**“, „**atle300.dll**“, „**TcScriptCe.dll**“, „**TcAmsRemoteMgr.exe**“, „**TcAdsTest.exe**“

Copy these items to „**MMCMemory\CopyToWindows**“ :

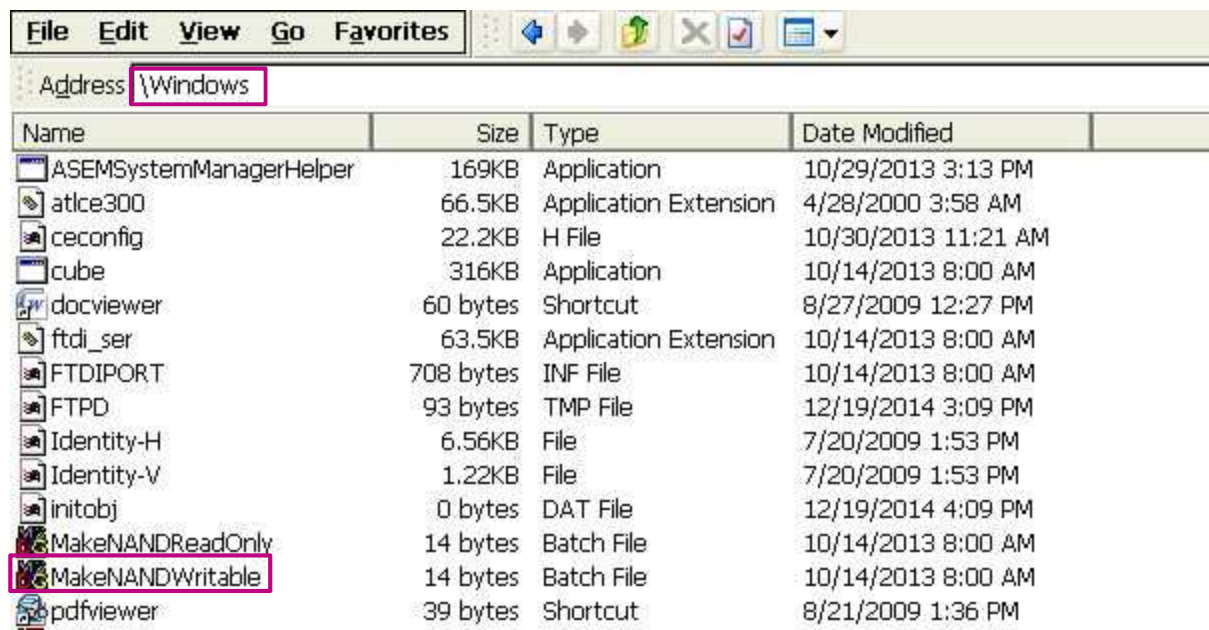


Note: If the folder „**CopyToWindows**“ doesn't exist, you can create it manually.

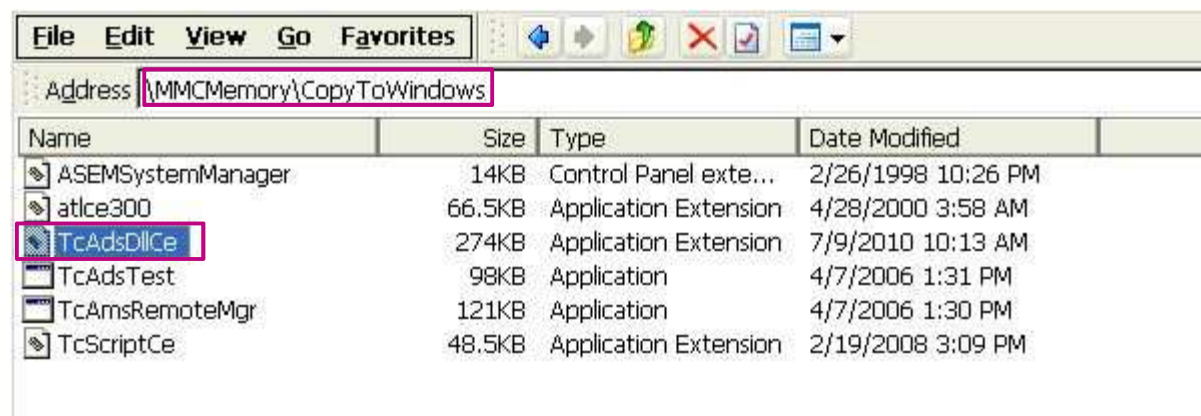
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6. After copying all files, you have to restart (Power off/on) the C6-HMI.
7. Make the NAND-Flash writable. This function is placed in the folder „**Windows**“.



8. Copy the file „**TcAdsDIICe.dll**“ from the folder „**MMCMemory\CopyToWindows**“ to „**NANDFlash\COMBIVIS studio HMI**“ and „**NANDFlash\COMBIVIS studio HMI\Drivers**“.



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Name	Size	Type	Date Modified
xmlite	188KB	Application Extension	2/26/1998 10:26 PM
xamlruntimecore	3.40MB	Application Extension	2/26/1998 10:26 PM
xamlruntime	1MB	Application Extension	2/26/1998 10:26 PM
ww9_32	1.94MB	Application Extension	2/26/1998 10:26 PM
wb9ent	416KB	OCX File	2/26/1998 10:26 PM
UTSecureLayer	20.5KB	Application Extension	2/26/1998 10:26 PM
TcAdsDllCe	274KB	Application Extension	7/9/2010 10:13 AM
sqlcese30	405KB	Application Extension	2/26/1998 10:26 PM

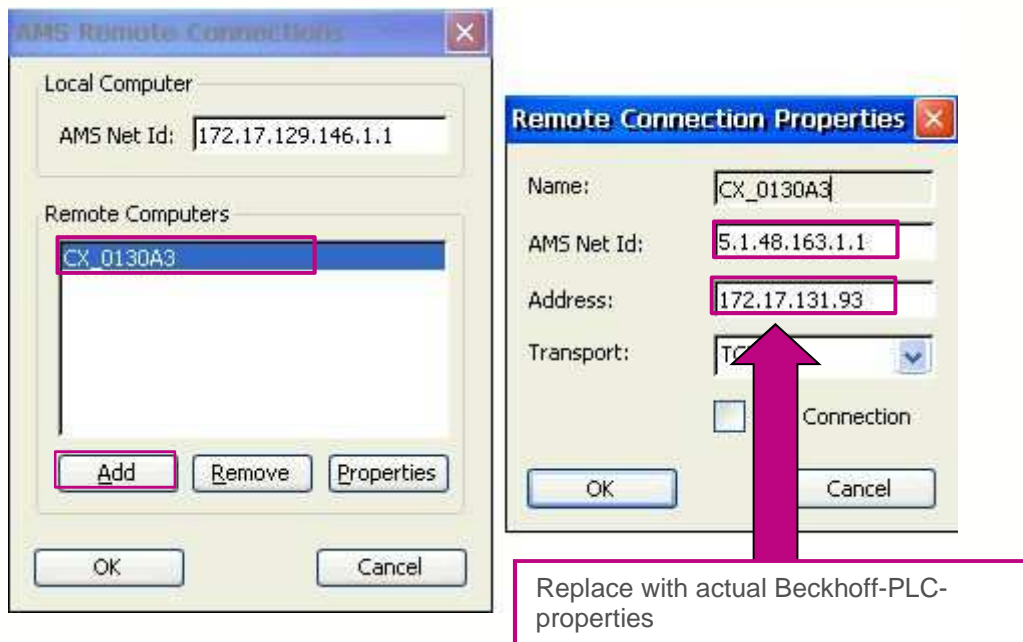
Name	Size	Type	Date Modified
__KEB	1.13MB	Application Extension	1/9/2014 4:15 PM
CoDeSys	1.82MB	Application Extension	12/11/2013 4:09 PM
KEB	1.13MB	Application Extension	12/17/2014 10:59 AM
Modbus	848KB	Application Extension	1/20/2014 10:37 AM
ModbusSlave	752KB	Application Extension	1/20/2014 11:16 AM
TcAdsDllCe	274KB	Application Extension	7/9/2010 10:13 AM
TwinCAT	741KB	Application Extension	12/11/2014 4:52 PM

9. Restart the C6-HMI (Power off/on).

10. Execute the "TcAmsRemoteMgr.exe", which is placed in the folder „Windows“ of the C6-HMI

Name	Size	Type	Date Modified
xlsviewer	60 bytes	Shortcut	8/27/2009 12:27 PM
TcScriptCe	48.5KB	Application Extension	2/19/2008 3:09 PM
TcAmsRemoteMgr	121KB	Application	4/7/2006 1:30 PM
TcAdsTest	98KB	Application	4/7/2006 1:31 PM

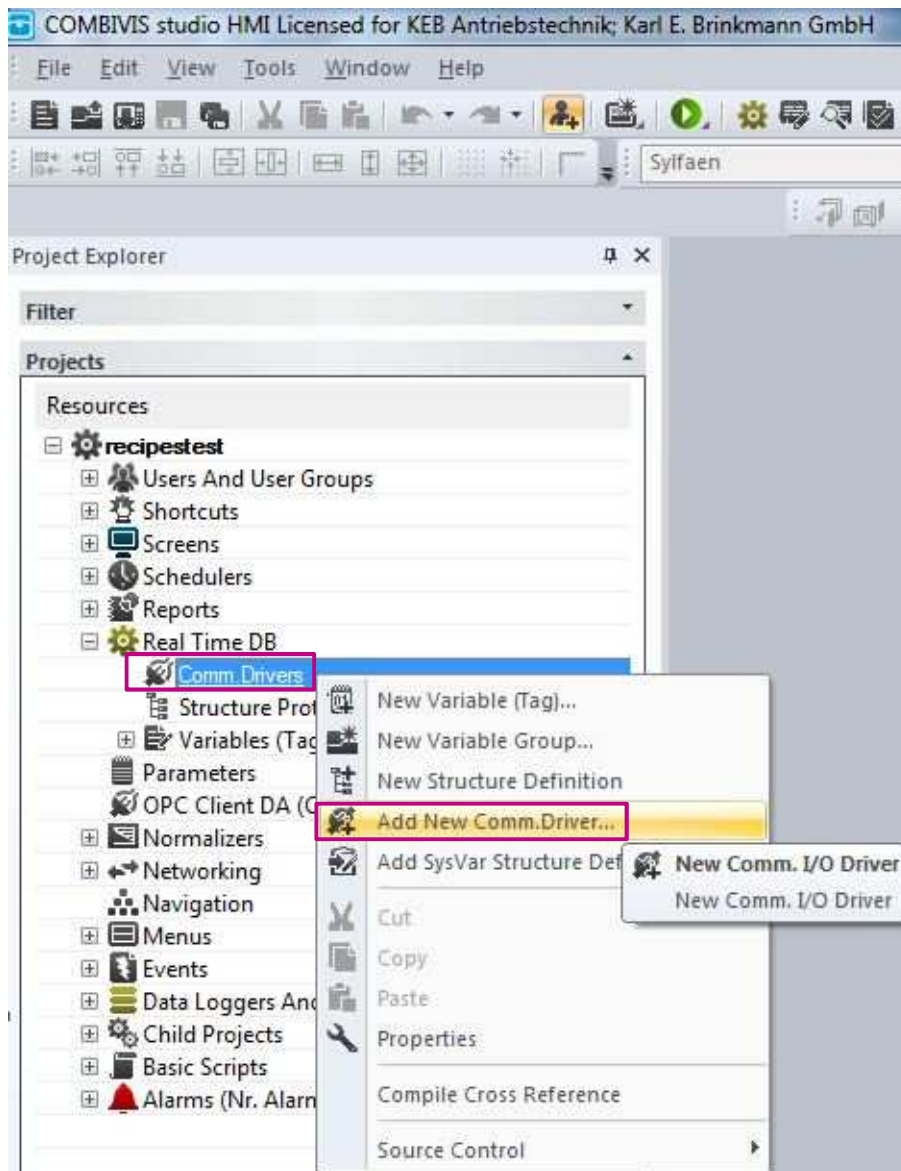
11. Add a new station and insert the properties of the Beckhoff device. After pressing OK the settings will be transferred to the registry.



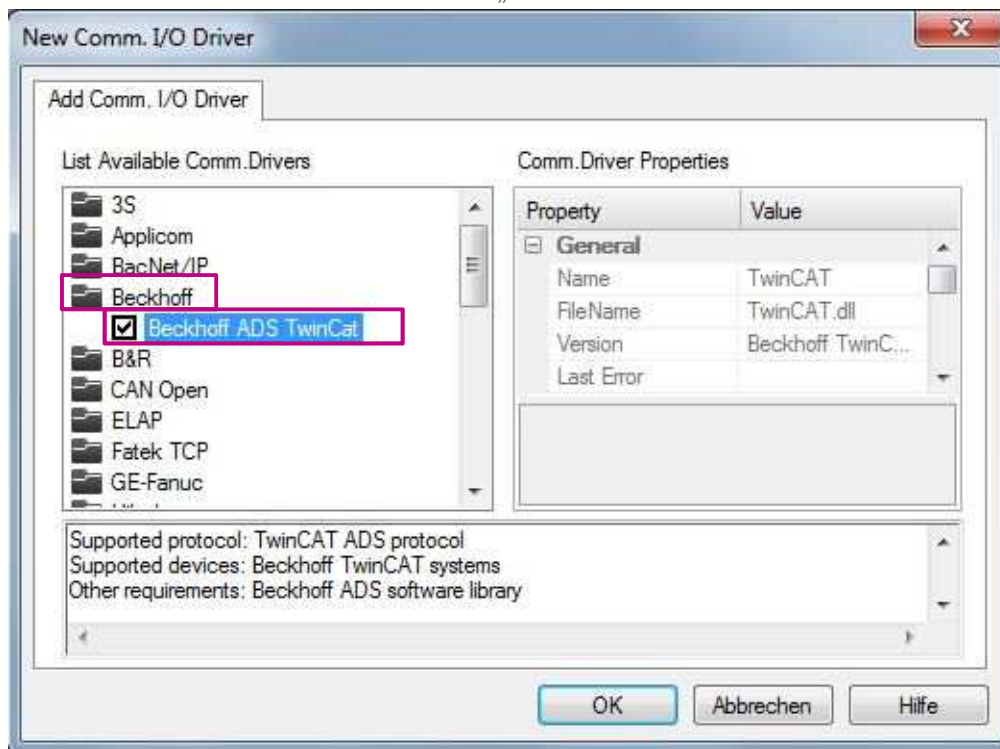
12. Restart the C6-HMI (Power off/on). Now you can upload your project from COMBIVIS studio HMI to the C6-HMI.

Connect the KEB C6 VISU to a Beckhoff-PLC with WinCe system

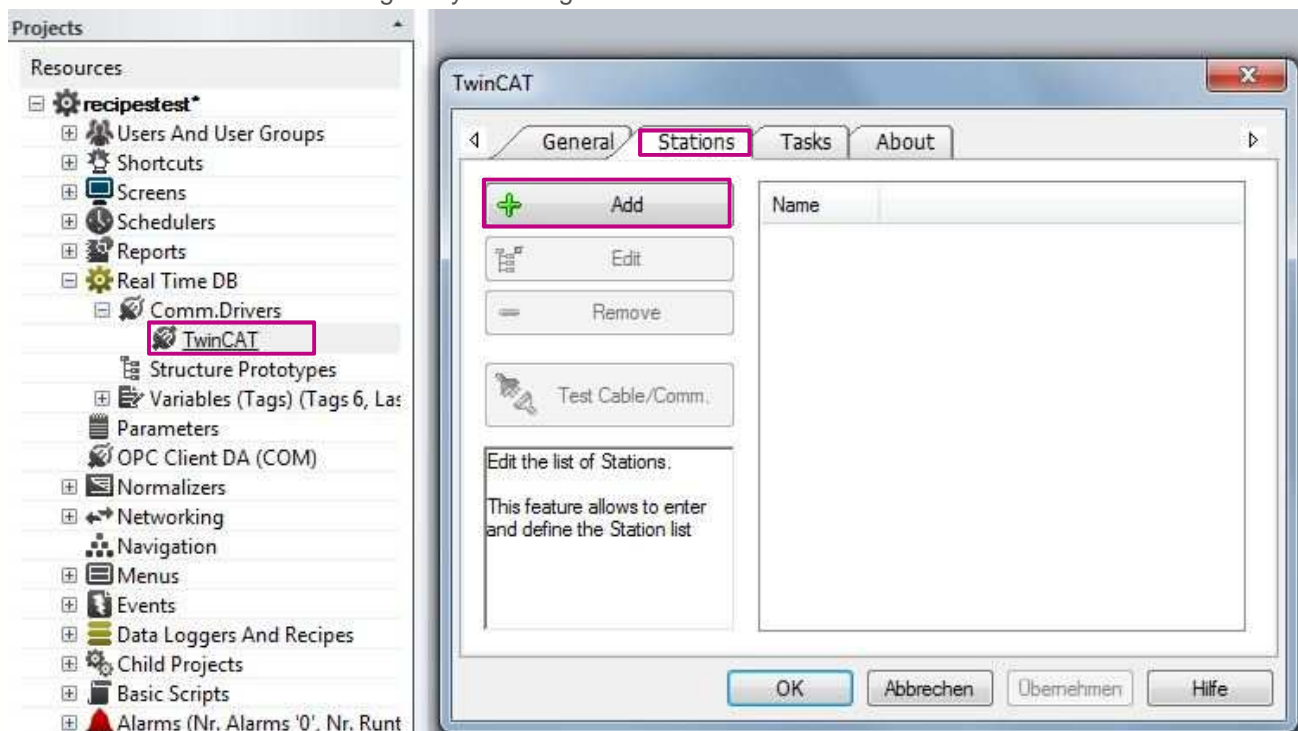
1. Add a new driver to “Project Explorer > Real Time DB > Comm. Drivers > Add New Comm. Driver...”



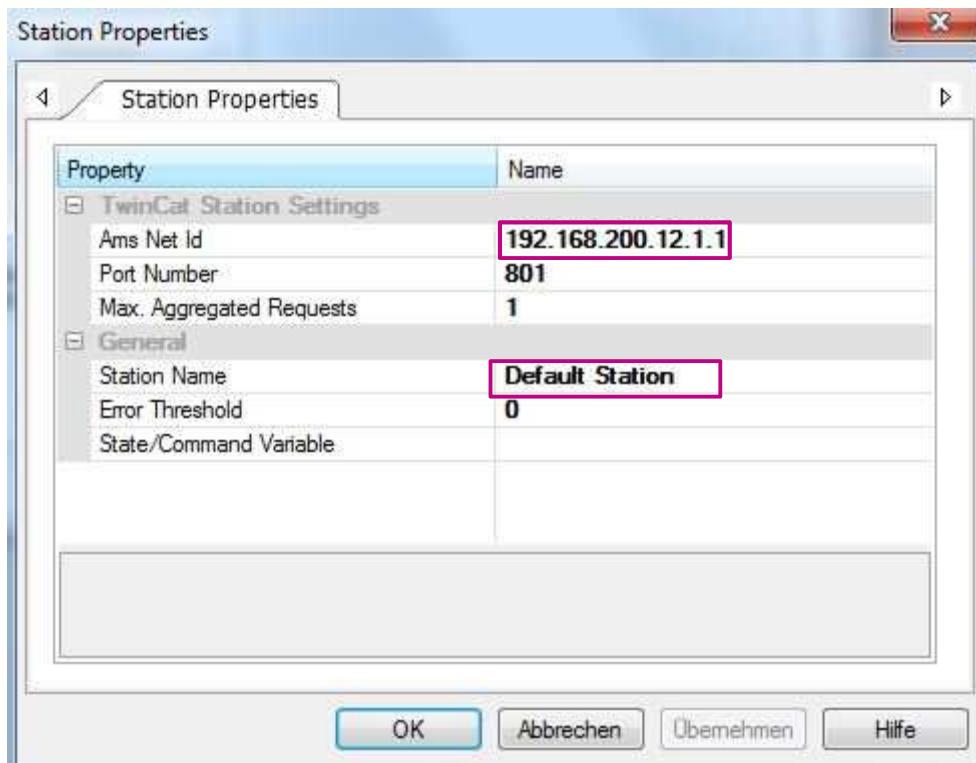
2. Choose the “Beckhoff ADS TwinCat,” driver and confirm it with OK.



3. Double-click on the driver opens a new screen for the settings. Add a new station by the tab “Stations”. The other settings stay unchanged.



4. Change the „**Ams Net Id**“ to the actual Beckhoff-PLC-address. The name of the station can be chosen randomly. The rest of the settings can stay as default-values. Note: The „**Ams Net Id**“ of the HMI have to be transferred to the Beckhoff PLC.

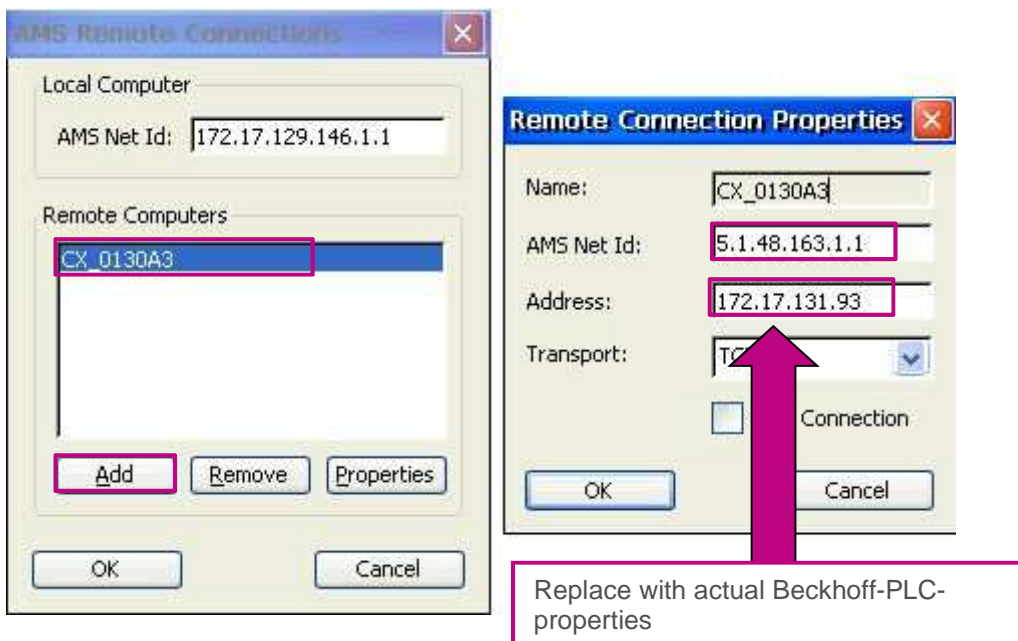


5. After adding the driver you have to copy the file **TcAdsDIICe.I586.CAB** from the installation-folder (eg.: **C:\Program Files\TwinCat\ADS Api\TcAdsDIICe\setup\TcAdsDIICe.I586.CAB**) of TwinCat to the desktop of the HMI. Run this file and the following files will be stored to the folder „**Windows**“ :
 - „TcAdsDIICe.dll“, „atle300.dll“, „TcScriptCe.dll“, „TcAmsRemoteMgr.exe“, „TcAdsTest.exe“
6. Copy the file „**TcAdsDIICe.dll**“ to the folder „**My Device\Programm Files\ COMBIVISstudio HMI**“.

- Execute the "TcAmsRemoteMgr.exe", which is placed in the folder "My Device Windows" of the C6-VISU



- Add a new station and insert the properties of the Beckhoff device. After pressing OK the settings will be transferred to the registry.



- Restart the C6-VISU (Power off/on). Now you can upload your project from COMBIVIS Studio HMI.

Disclaimer

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Inspection of our units in view of their suitability for the intended use must be done generally by the user. Inspections are particularly necessary, if changes are executed, which serve for the further development or adaptation of our products to the applications (hardware, software or download lists). Inspections must be repeated completely, even if only parts of hardware, software or download lists are modified.

Application and use of our units in the target products is outside of our control and therefore lies exclusively in the area of responsibility of the user.

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