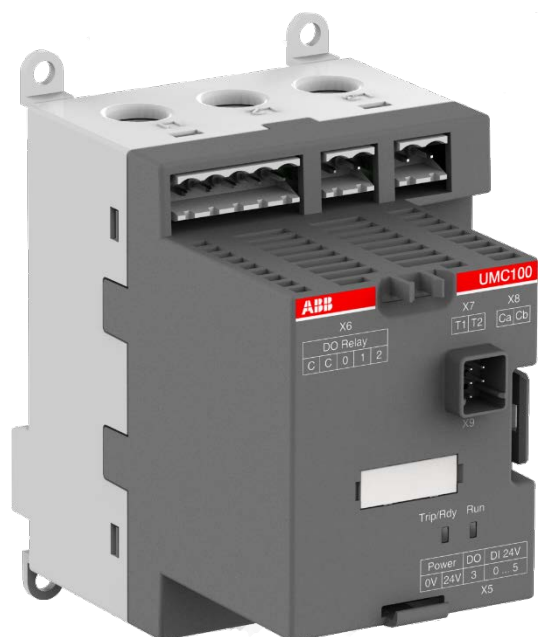# How to install and use Asset Vision Basic

Asset Vision Basic

The software „Asset Vision Basic" is the frame application for the DTMs of our universal motor controllers.

This software can be used for parametrizing the UMCs and download it directly to the device.

In this document is described how to set up the software and some basic steps for using it.

Presettings

Before the installation three points must be fulfilled:

1.   Local administrator rights

2.   Windows User Account Control must be on the lowest setting

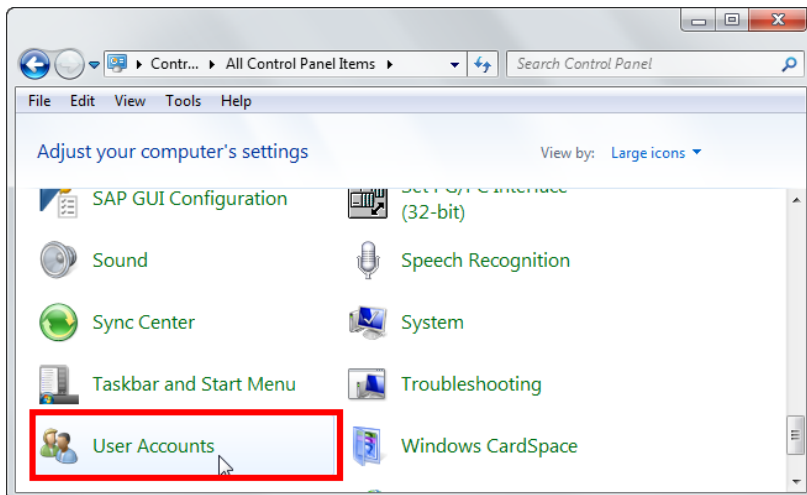3.   Windows language settings have to be "English (United States)"

If one of these three preconditions are not met, the installation may don't work properly.
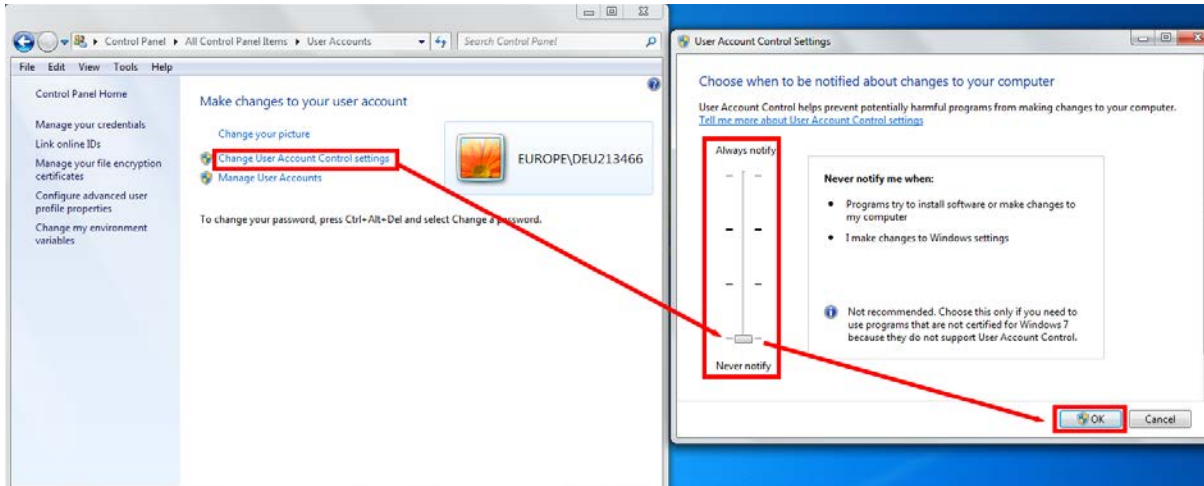
Local Administrator rights

In case you don't have the administrator rights, please contact your system administrator.

Windows User Account Control

1.   Open "Windows Control Panel".

2.   Click "User Accounts".

3.   Click on "Change User Account Control settings".

4.   Change the setting to "Never notify" and apply with the "OK" button.
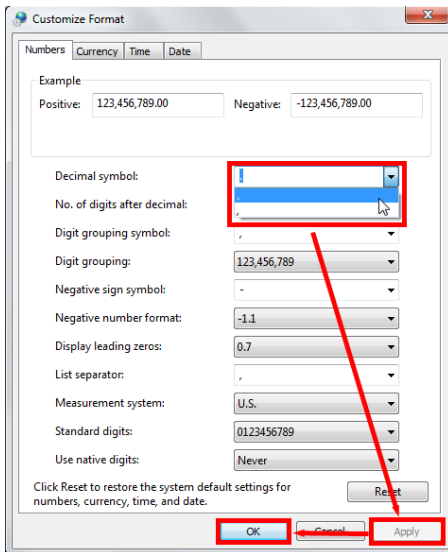
Windows Language Settings

1.   Open "Windows Control Panel".

2.   Click "Region and Language" to verify Region and Language preferences.

3.   Select "Formats" tab.

4.   Select and verify that "English (United States)" is selected in the Format section.

5.   Click "Additional settings…" to launch the "Customize Format" dialog box.
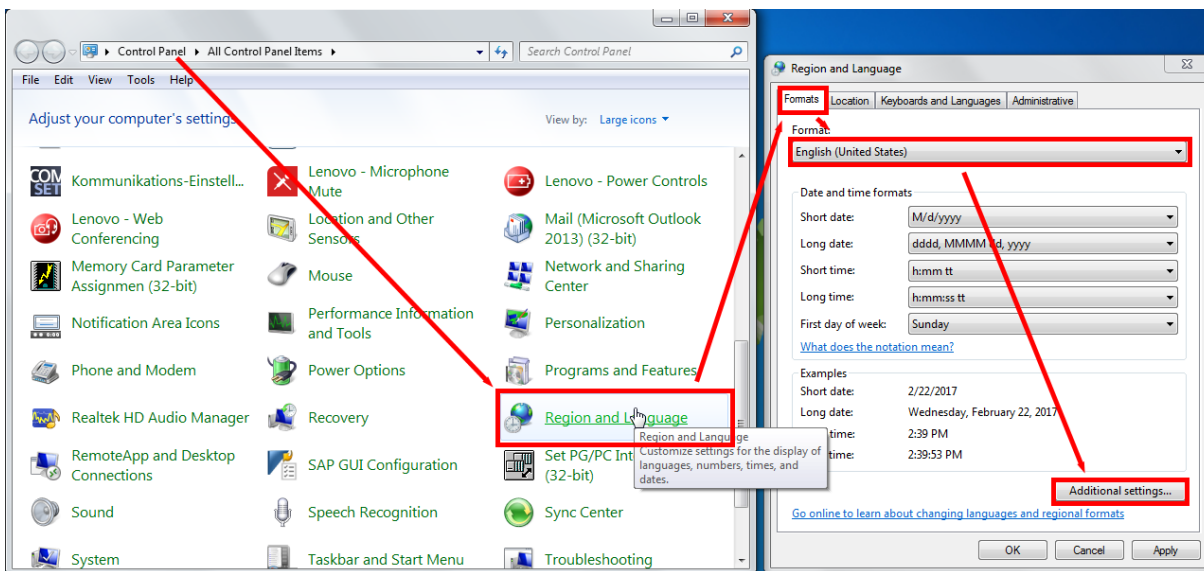
6.   Verify that the value in the decimal symbol field drop-down list is a dot (.). If it is not, change it to a dot (.) and click "Apply" and then OK.

7. Click the "Administrative" tab in the "Region and Language" window.

8. Click "Change system locale…" to launch the "Region Settings" dialog box.

9. Verify that the value in the "Current system locale" drop-down list is "English (United States)". If it is not, change it to "English (United States)" and click "OK" to return to the Administrative tab of the Region dialog box.
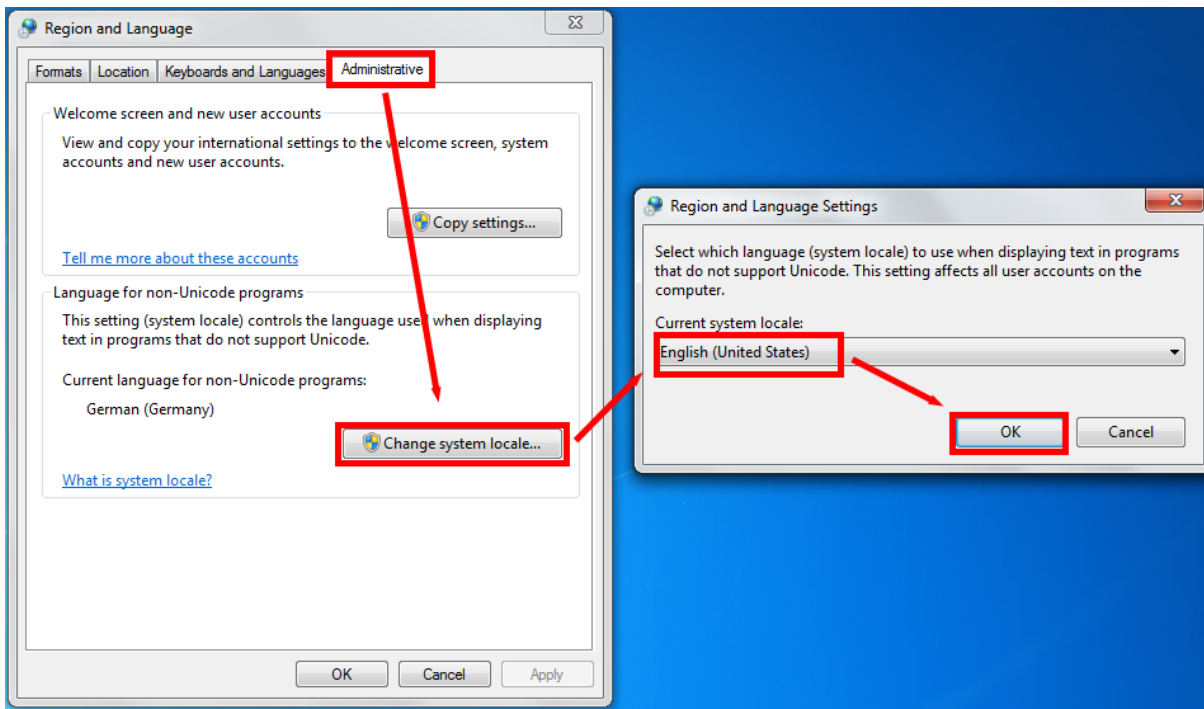
10. Click "Copy settings" to launch the "Welcome Screen and New User Accounts Settings" dialog box.

11. Enable the "Welcome screen and system accounts" and "New User Accounts" check boxes and click OK.
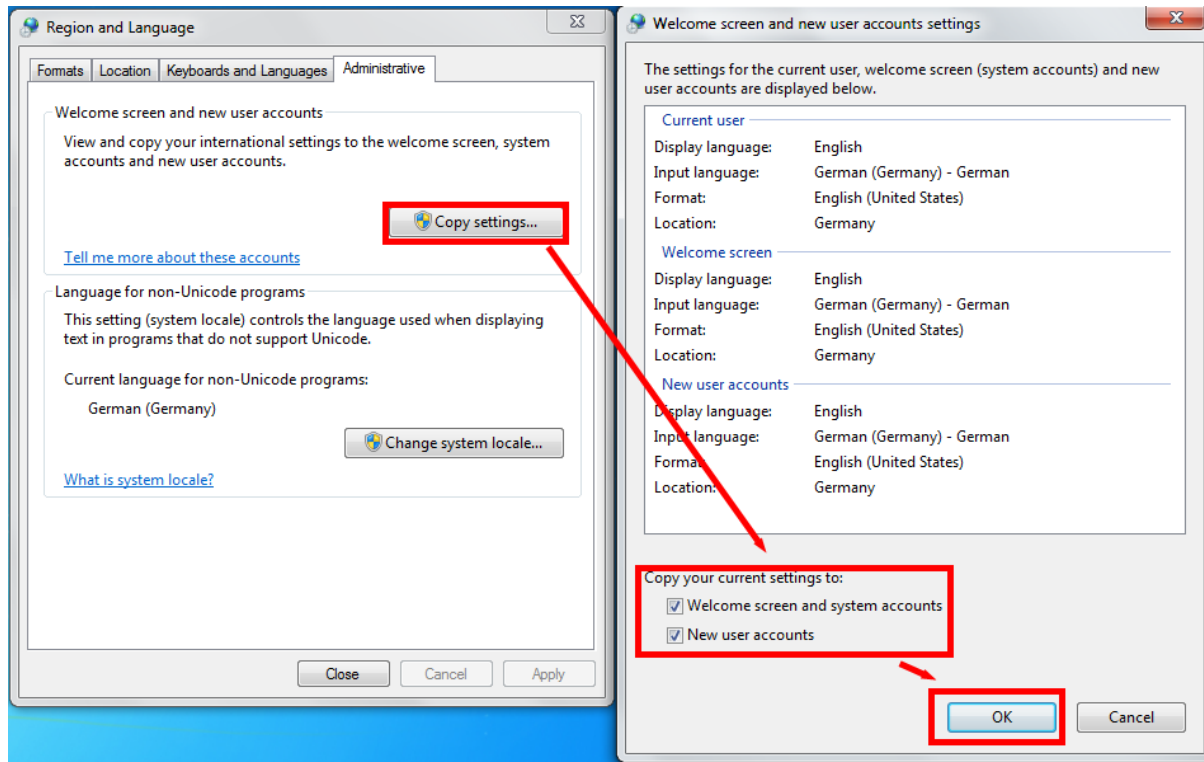
12. Click "OK" to exit the Region dialog box.

13. Close Windows Control Panel.

14. Restart the computer.
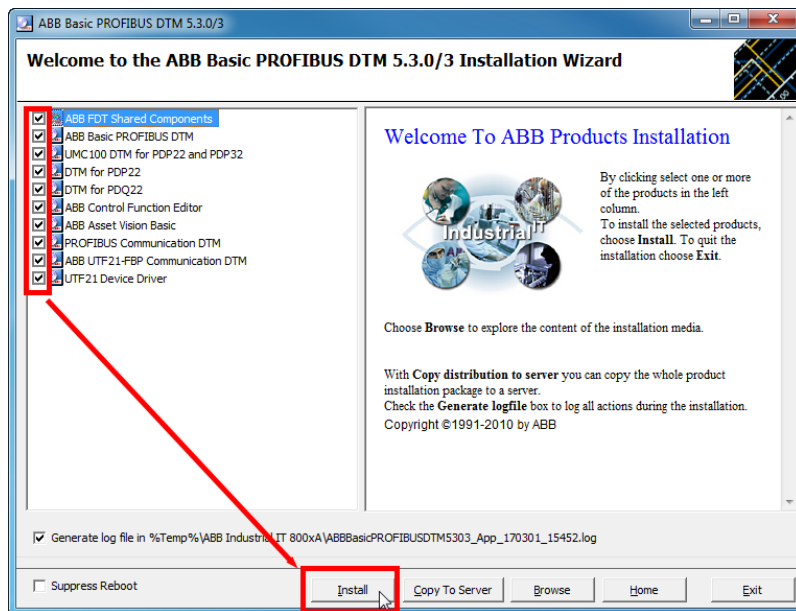
Installation of Asset Vision Basic

For the installation of Asset Vision Basic you need the newest version of the software, available as disk.

SETUP OPTIONS

Setup	Description
ABB FDT Shared Components	The FDT Shared Components is an ABB specific library for the data exchange between the DTM and the FDT.
ABB Basic PROFIBUS DTM	DTM for PROFIBUS devices, additionally serving as a runtime environment for device-specific DTMs, that have been built with the PROFIBUS DTM Builder
UMC 100 DTM for PDP22 and PDP32	This DTM is needed for the Profibus communication with UMC100-FBP and UMC100.3 using the Profibus communication modules PDP22-FBP and PDP32.0
DTM for PDP22	This DTM is used for the Profibus communication with UMC22-FBP through a Profibus communication module.

DTM for PDQ22	This DTM is used for the Profibus communication with a PDQ22 (Profibus communication module with the possibility to connect up to four UMCs to one device).
ABB Control Function Editor	The Control function editor is used for creating / changing the standard motor control functions according to project specific needs.
ABB Asset Vision Basic	ABB Asset Vision Basic is the FDT frame application. Within this software the DTMs will be installed and can be used for configuration of the devices.
PROFIBUS Communication DTM	This DTM has to be installed for using the UTP22-FBP for downloading the created configuration from Asset Vision Basic to the UMC over Profibus (UTP22-FBP and PDP32.0 / PDP22-FBP are necessary). It's also including the setup for device drivers used for the UTP22.
ABB UTF21-FBP Communication DTM	This DTM has to be installed for using the UTF21 for downloading the created configuration from Asset Vision Basic to the UMC (for UMC100.3 the UTF21 is integrated into the UMCPAN, 1SAJ590000R0103, and for the previous UMCs it's a separate device).
UTF21 Device Driver	USB driver for using the UTF21.

1. Open the Asset Vision folder on the disk.

2. Open the "Win7" or "XP" folder, depending on the operation system.

3. Run the "setup.exe" as administrator (right click on the icon and "Run as administrator").

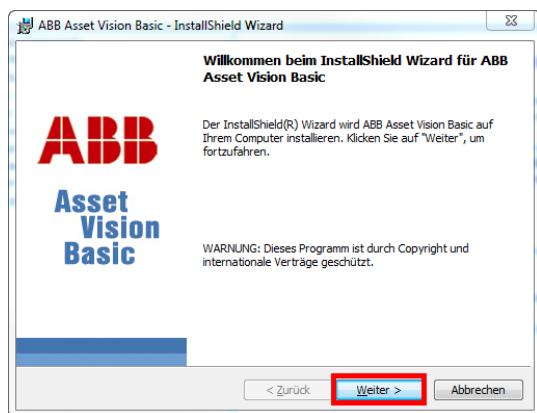4. For a complete installation, check all boxes and start the installation with "Install".
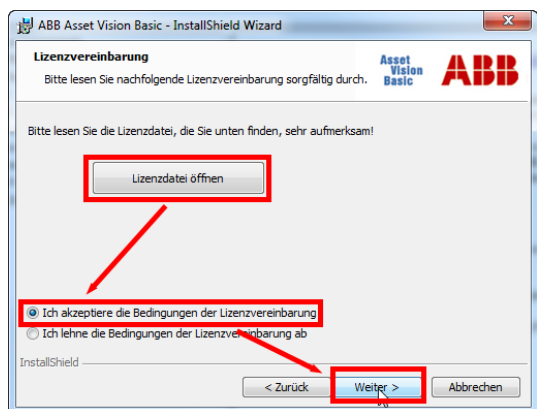
5.   Confirm again the selection.
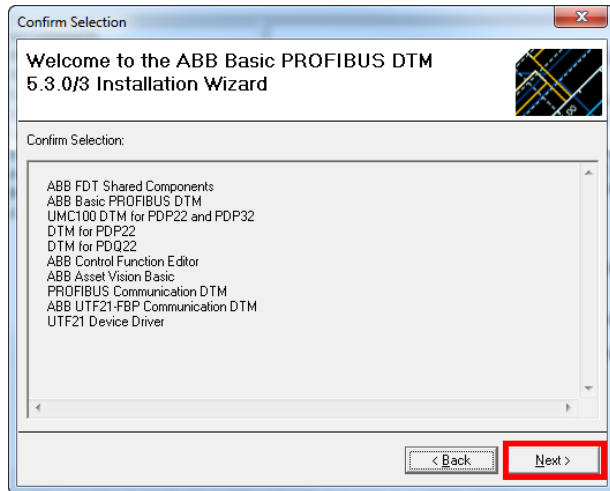
6.   During the installation process "ABB Asset Vision Basic" opens a second installation window:
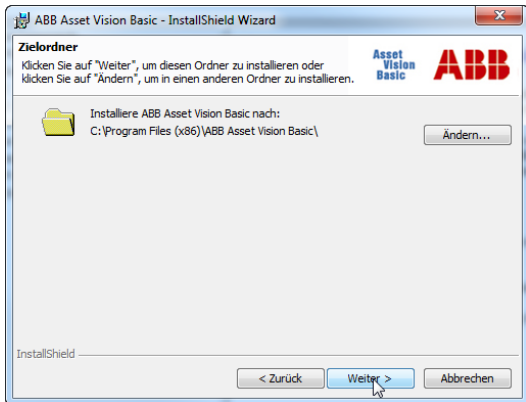
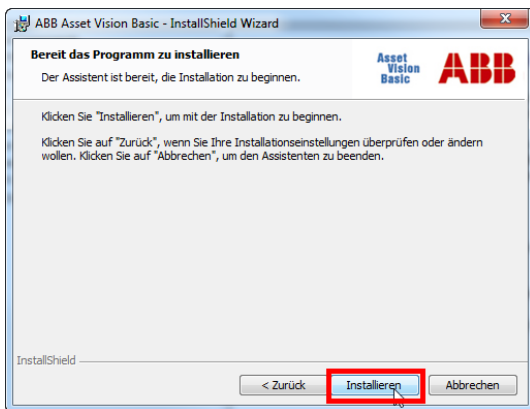   a)   Confirm the InstallShield Wizard.

   b)   Read and accept the license agreement.
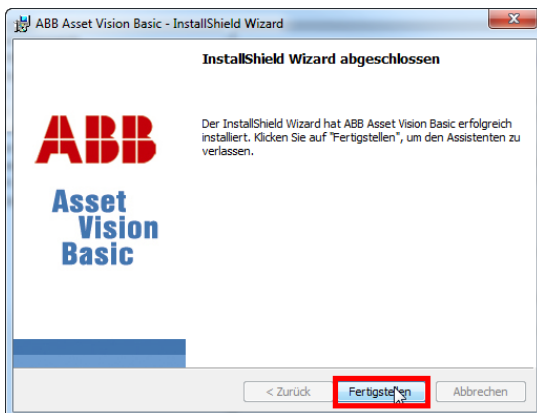
c)   Select the installation destination.

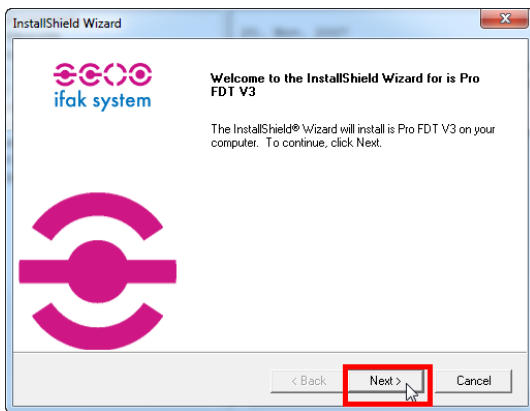d)   Start the installation.

e)   Finish the installation.

7. During the installation process "PROFIBUS Communication DTM" opens a second installation window:
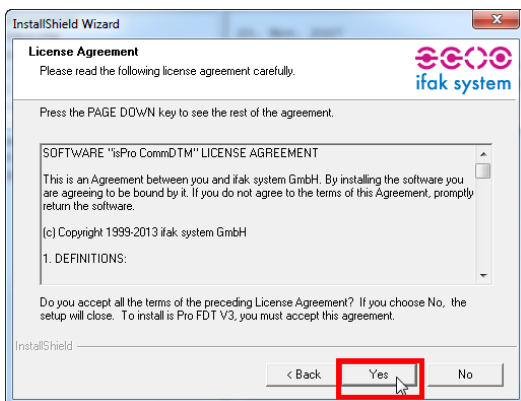
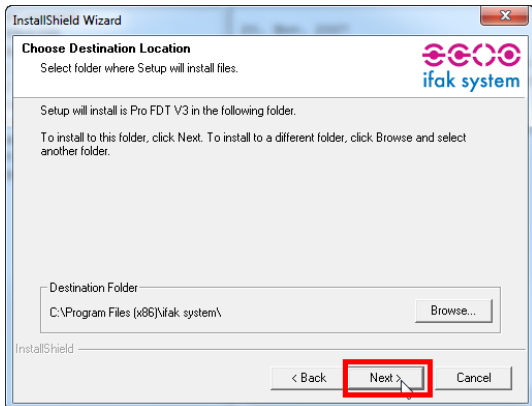   a) Select the installation language (English or German)
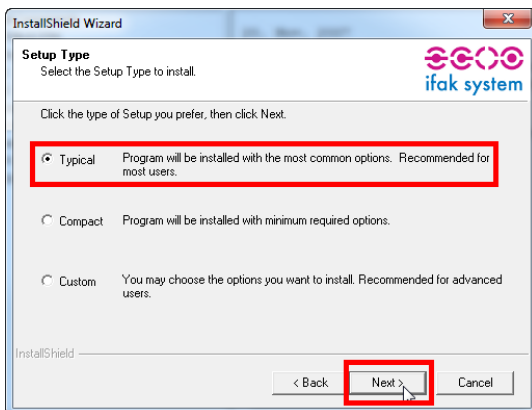

   b) Continue with the "Next" button.

   c) Read and accept the license agreement.
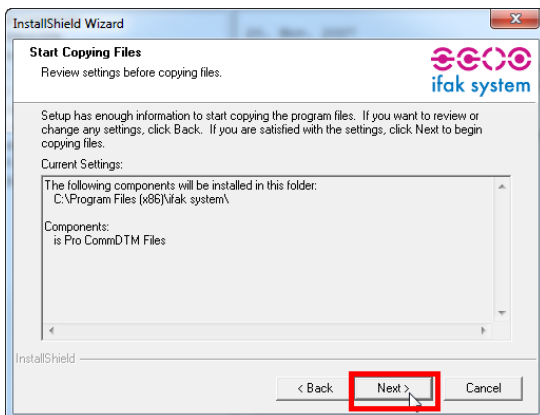
d)   Select the installation path and apply with the "Next" button.
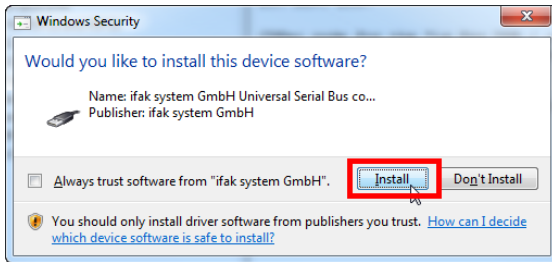

e)   Choose the "Typical" installation and apply with "Next".
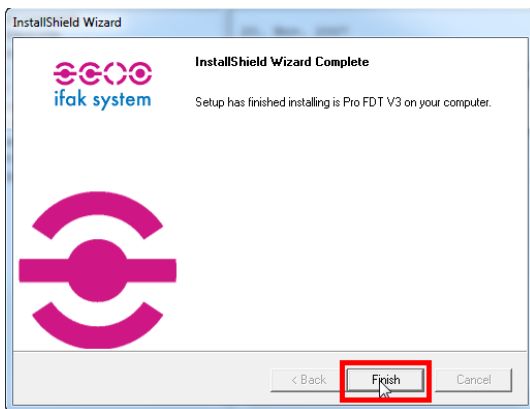

f)   Start the installation by clicking the "Next" button.

g)   Install also the device driver when asked for.
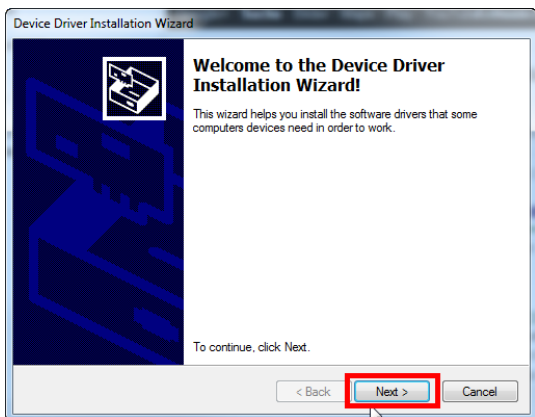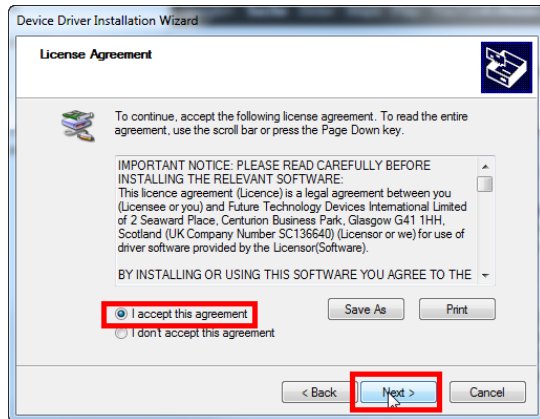

h)   Finish the setup.

8.   During the installation process "UTF21 Device Driver" opens a second installation window:

a)   Start by clicking the "Next" button.

,

b) Read and accept the license agreement.

c) Finish the installation after both drivers were successfully installed.
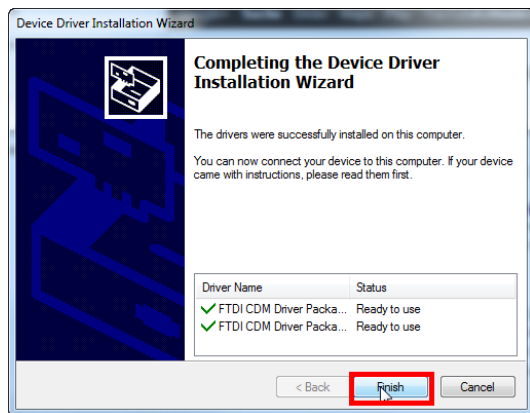
9. After the whole installation finished open again the disk with the setup and open the following path: XXX\Win7\Software\Device Templates\ABB

10. Inside this folder are three subfolders. Open each folder to find the "DeviceTemplateCopy.exe"
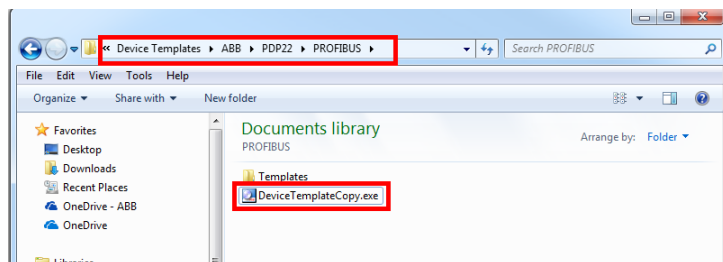
11. Right click on each "DeviceTemplateCopy.exe" and click "Run as administrator". No additional window will open.

12. Repeat this until all three, different "DeviceTemplateCopy.exe" have been executed.
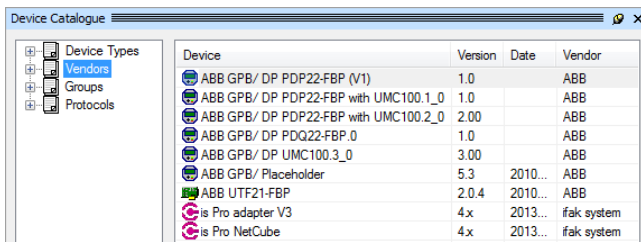
13.   The installation is now completed and the Windows Language Settings can be changed back to the standard settings.

Run Asset Vision Basic the first time

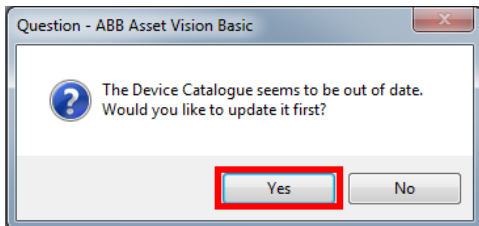1.   Double click on the Asset Vision Basic symbol on the Desktop to start the Software.

2.   After the first startup of the software the following window appears. Click on "Yes" to update the catalogue.

3.   After the update click on "Vendors" in the device catalogue. The following entries should be available, with the shown (or higher) version.

The relevant components are:

D E V I C E C A T A L O G U E

Device	Description
ABB GPB/DP PDP22-FBP (V1)	This device has to be used for UMC22.
ABB GPB/DP PDP22-FBP with UMC100.1_0	This device has to be used for the first generation of the UMC100-FBP (order code ends with …R0x00)
ABB GPB/DP PDP22-FBP with UMC100.2_0	This device has to be used for the second generation of the UMC100-FBP (order code ends with …R0x01)
ABB GPB/DP PDQ22-FBP.0	This device has to be used for a PDQ22-FBP, where up to four UMCs are connected to.
ABB GPB/DP UMC100.3_0	This device has to be used for UMC100.3
ABB GPB/ Placeholder	The Placeholder DTM cannot be used as device-specific DTM, but is used to create device-specific DTMs by inserting the required GSD files of the particular device types.
ABB UTF21-FBP	Before adding a UMC to the project it's necessary to choose an interface how the configuration will be downloaded to the UMC. The UTF21 is available in two versions: For the UMC100.3 it's the UMCPAN 1SAJ590000R0103 with an integrated USB port. The panel can be used as UTF21 ONLY for the UMC100.3. For all other Fieldbusplug devices (e.g. UMC100-FBP or UMC22) the external UTF21-FBP (1SAJ929400R0002) has to be used.
is Pro adapter V3	Before adding a UMC to the project it's necessary to choose an interface how the configuration will be downloaded to the UMC. With the is Pro adapter V3 the configuration can be loaded on the UMC when a Profibus communication module is used (PDP22-FBP or PDP32.0). Furthermore the is Pro adapter (1SAJ924013R0001) is necessary.

First steps in a new project

After the installation this chapter will explain what's to do first in a new project. When there's a window asking for using Point-to-Point mode or Expert mode, please select the Expert mode.

After opening the software for the first time there will be an empty window:
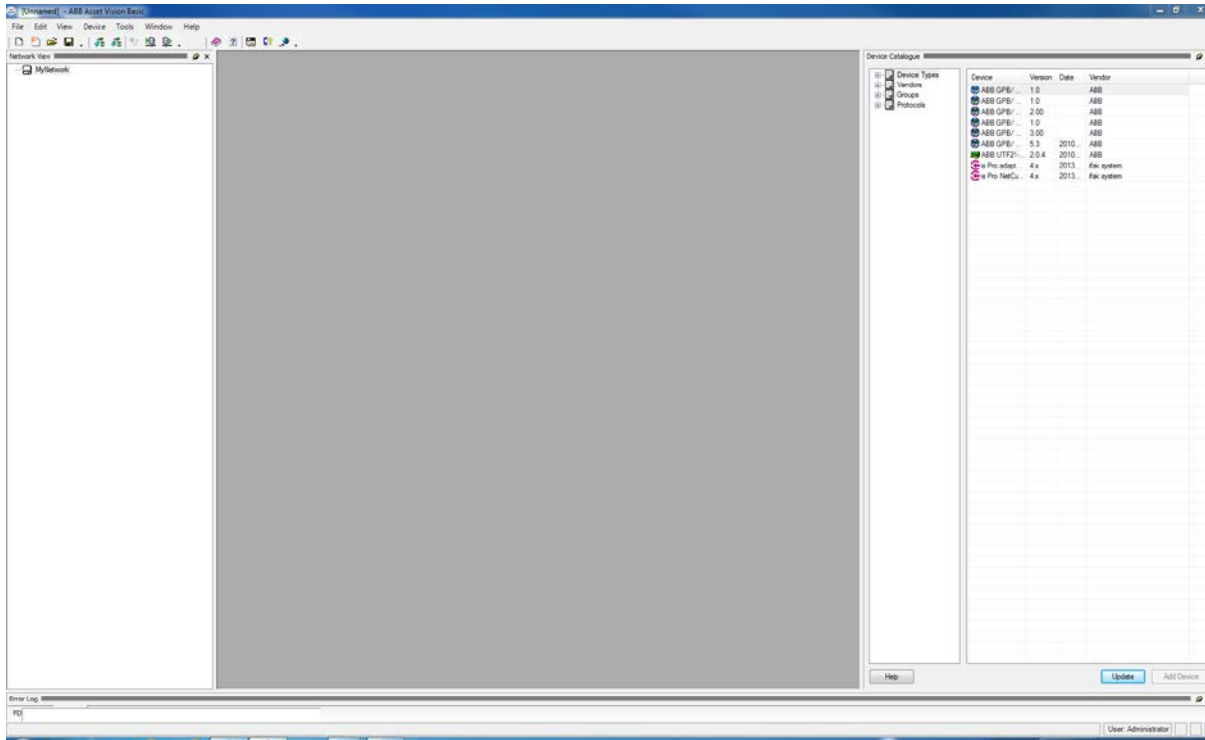

The first step will be adding the interface, how the configuration will be downloaded to the UMC. After this step the device itself will be added.

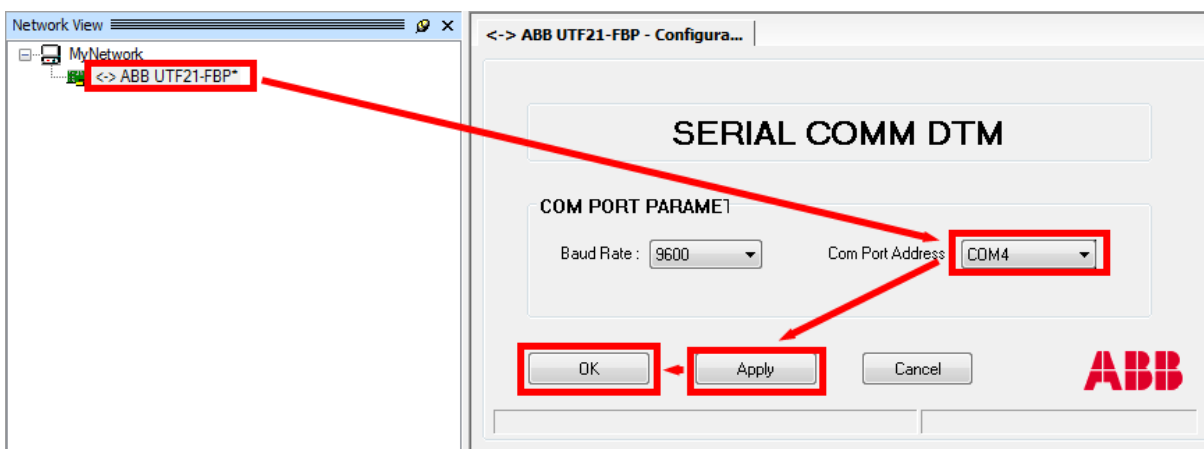## Selecting and configuring the ABB UTF21-FBP

1.   Right click on "MyNetwork" in the Network view and click on "Add".

2.   Select the ABB UTF21-FBP interface and insert it by clicking "OK"
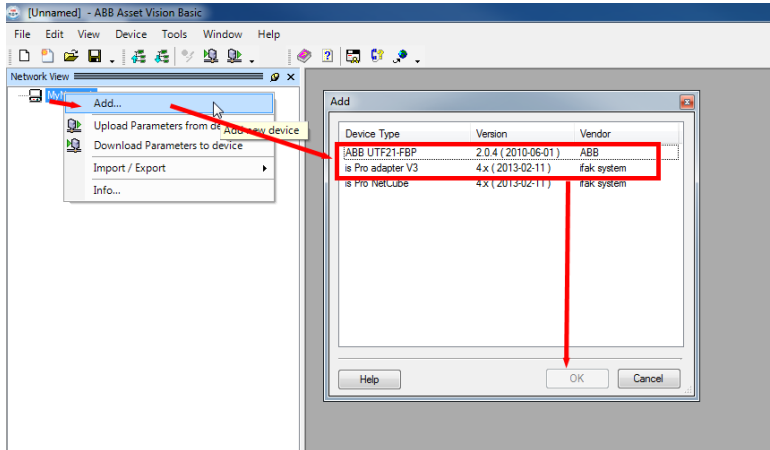
3.   Connect the UTF21 (UMC-Panel or UTF21-FBP) to the computer and open the Windows Control Panel.

4.   Open Device Manger and expand "Ports (COM & LPT). Behind "USB Serial Port" is displayed the used COM port.
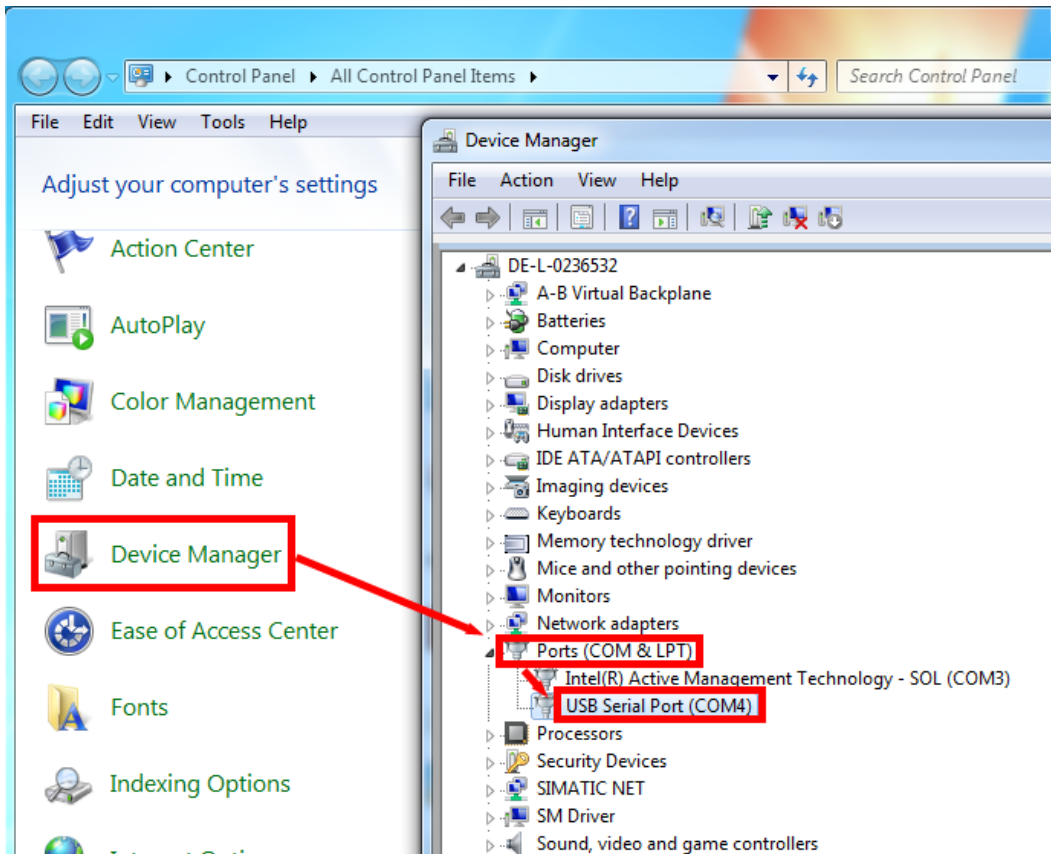
5. Keep this number in mind and go back to Asset Vision Basic.

6. Double click on the UTF21 in the Network view and insert the above mentioned COM port. Click on "Apply" and then on "OK". The UTF21 is configured successfully.

Selecting and configuring the ABB UTP22

1. Right click on "MyNetwork" in the Network view and click on "Add".

2. Select the "is Pro adapter V3" interface and insert it by clicking "OK"
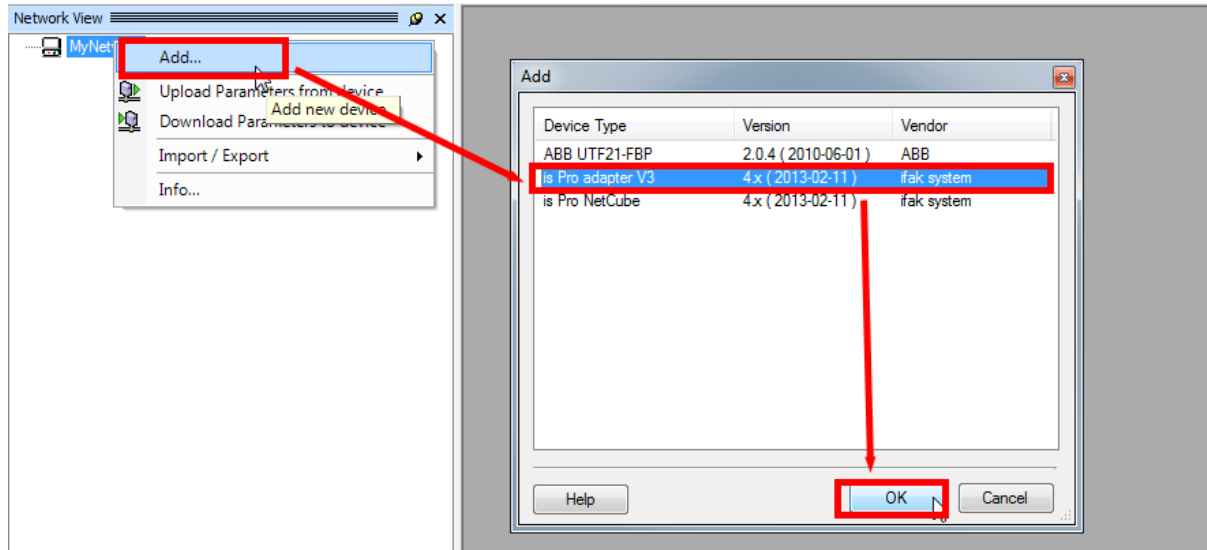

3.   Double click on the is Pro adapter and open the "FDL parameters" ribbon.

4. Select the Baud rate and recalculate the time values by clicking on "Set Default Values". Save the changes by clicking "Apply" and close the window by clicking "OK".
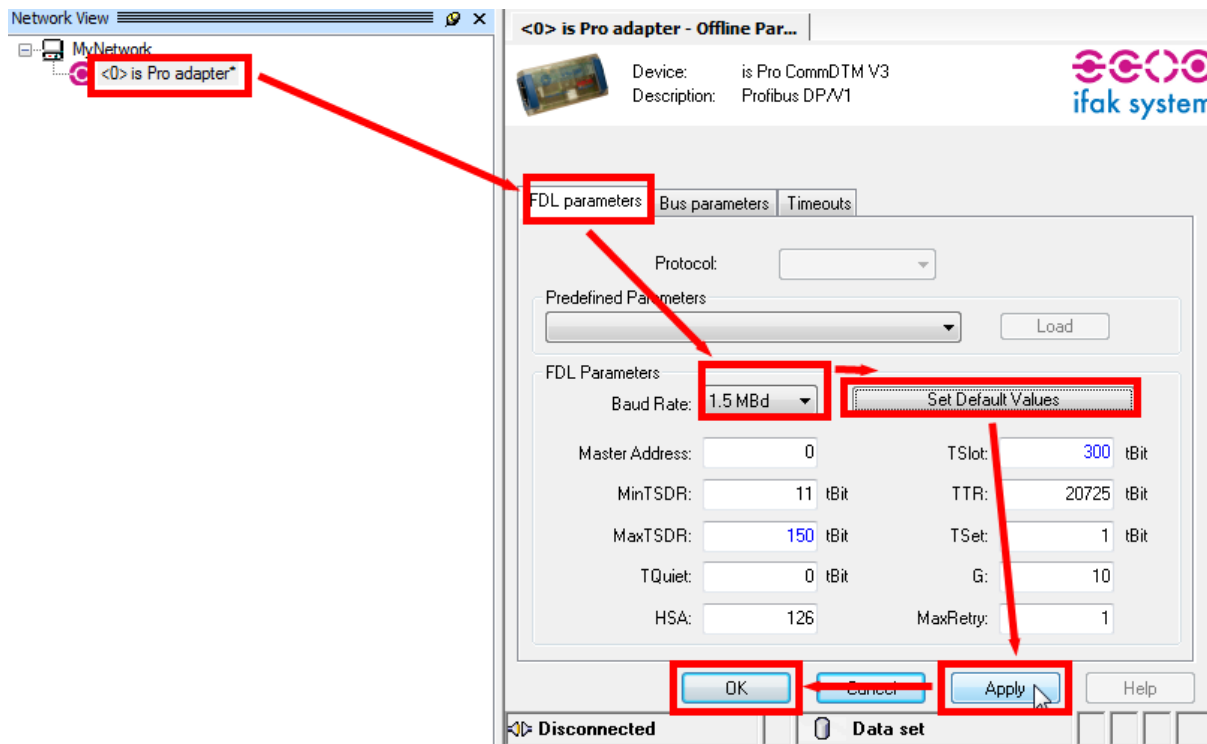
Add and configure an UMC100.3

The following steps will be the same, independent from which interface you added before. In the following steps an ABB UTF21 will be used.

1.   Right click on the ABB UTF in the Network View and click on "Add".

2.   Select the UMC100.3 and insert it by clicking "OK".
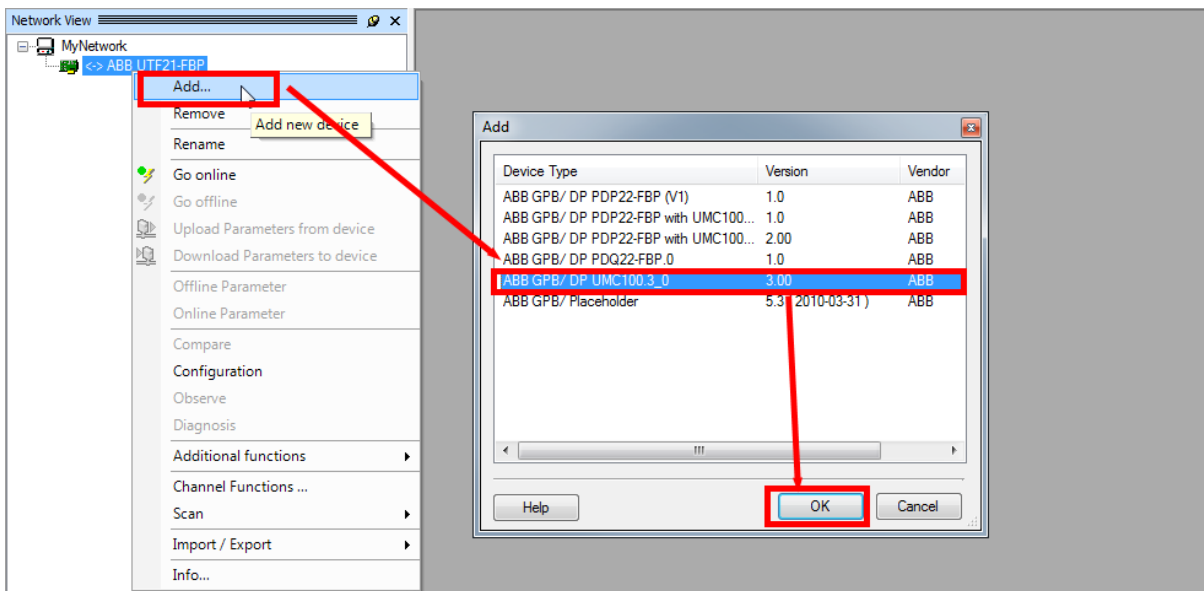
3.   The UMC will be inserted as "PROFIBUS.C0:126". Double click on this.

4.   Open the ribbon "Module" and select one of the profiles from the drop-down-list "Selection". The **difference** between both profiles is the data length which will be available on the bus after the configuration:

   a)   "UMC 100.3 (Rx100 Rx200)": This profile is the standard profile where 16 bytes monitoring data and 12 bytes command data will be available.

   b)   "UMC 100.3 (Rx100 Rx200)Profil2": This profile is a short profile where 4 bytes monitoring data and 2 bytes command data will be available.

5.   After clicking on the "Insert" button it will be added to the "Mounting" list.

6.   Click on "Apply" and then on "Close".
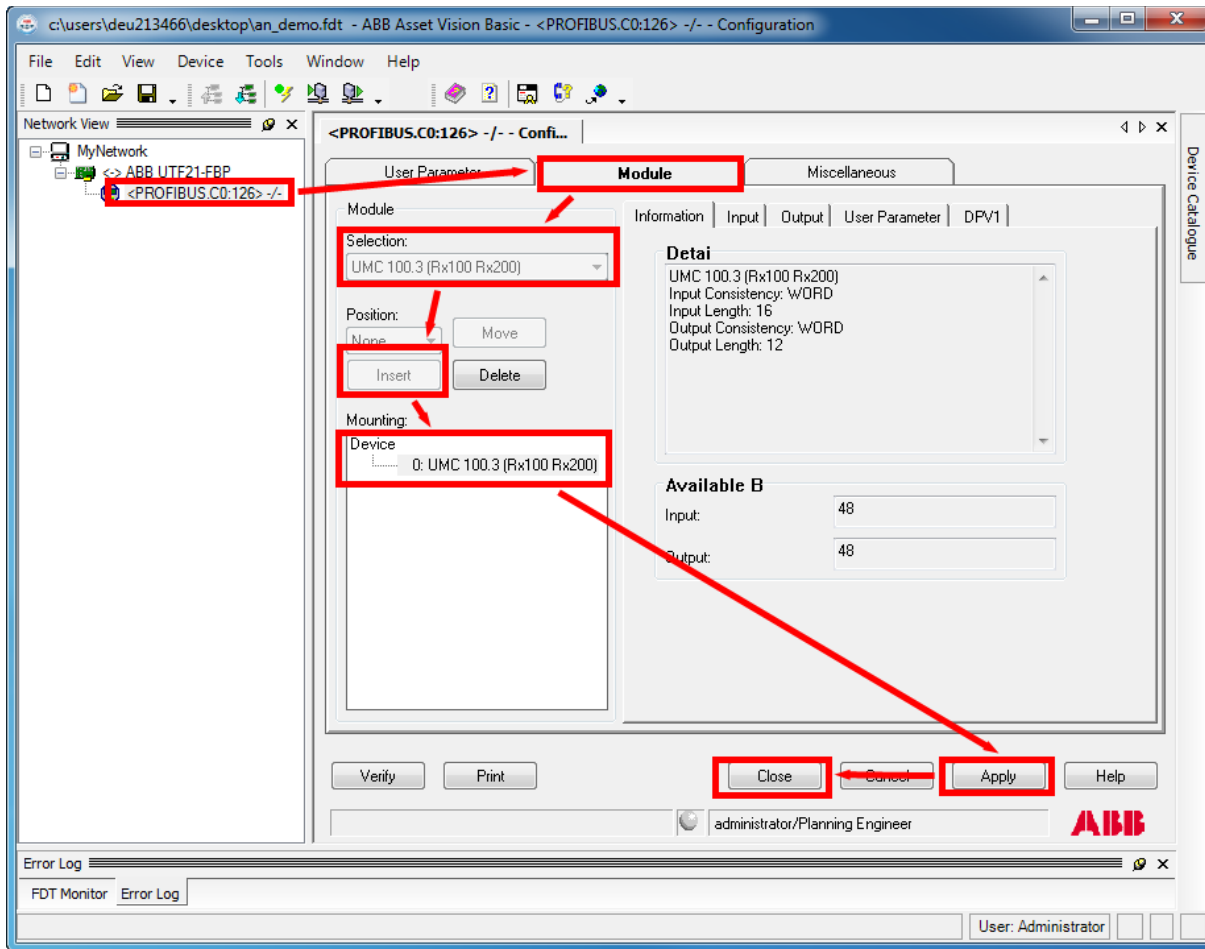
Parameterization of an UMC100.3

1. Right click on the UMC in the Network View and select "Additional functions" → "Parameterize[0]"

2. Configure each ribbon with the necessary settings for the final application. In case of some settings (e.g. using and IO module) additional ribbons will appear.

3. After all changes are done, click on "Apply" and "OK".
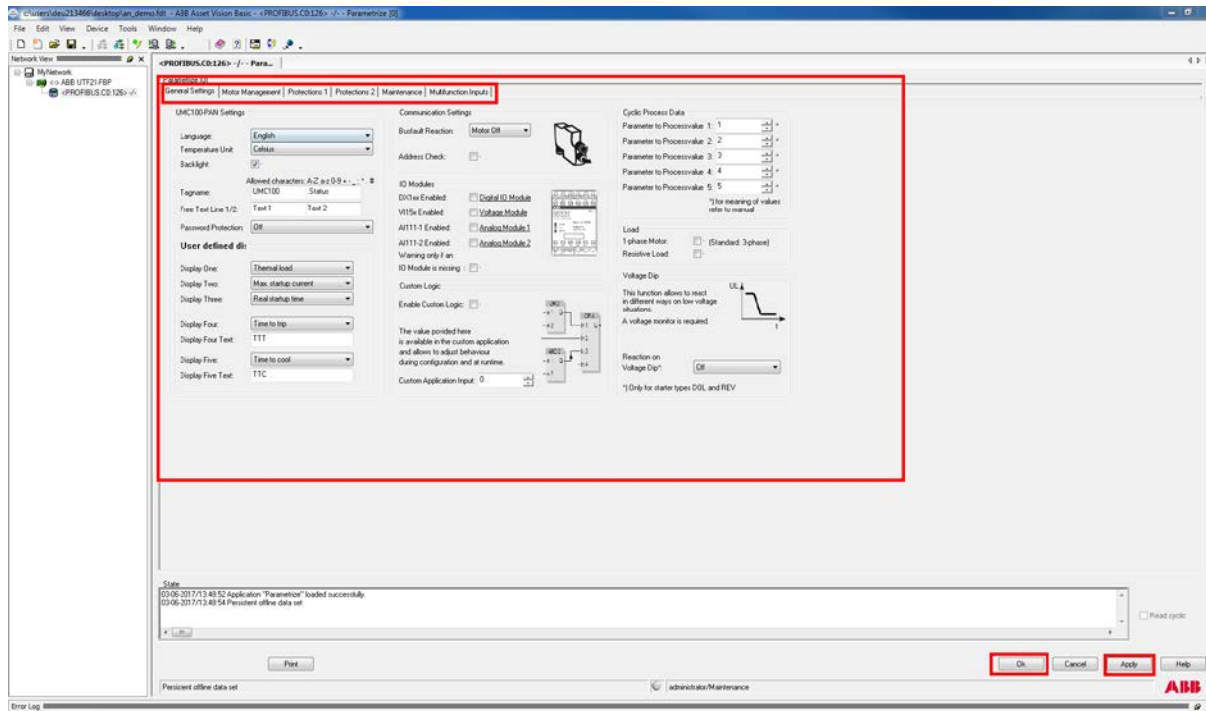
Custom logic

Sometimes it's necessary to adapt the standard settings with some changes, e.g. to rewire the in- and outputs of the DX1xx module. In this case the custom logic can be used.

1.   To enable the custom logic, open the "General Settings" ribbon in the Parameterization and tick the box next to "Enable Custom Logic". An additional ribbon "Custom Application Editor" appears.
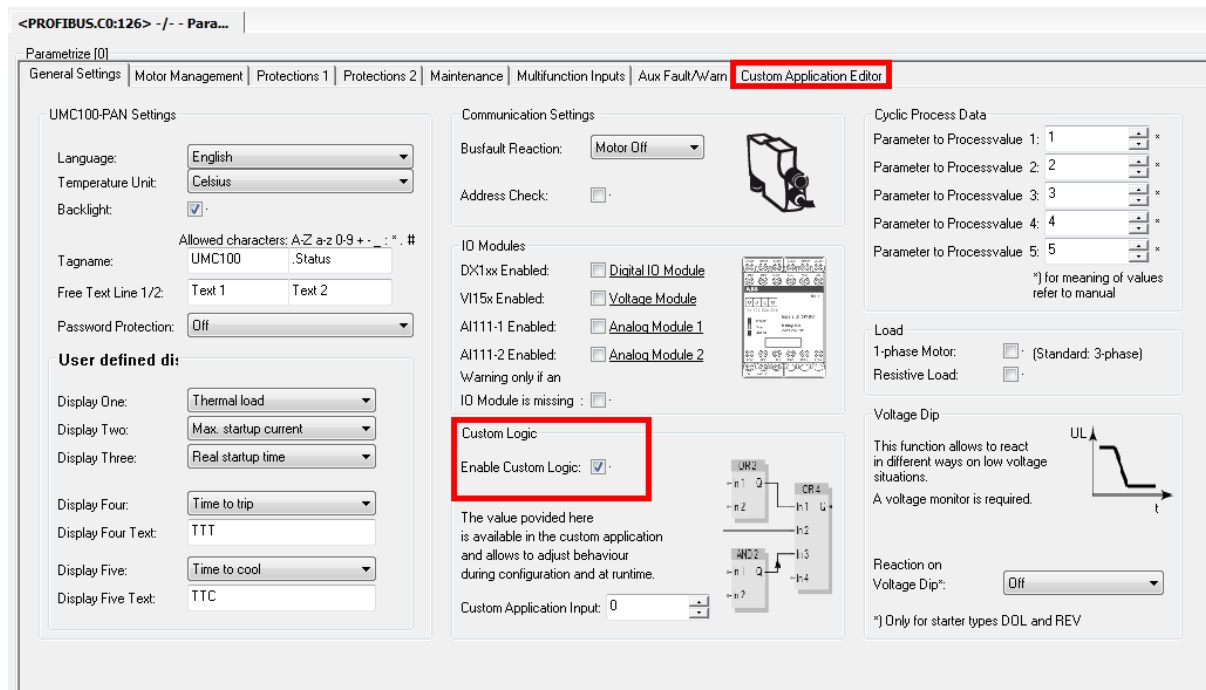
2.   Click on the ribbon "Custom Application Editor". The window will be empty.

3.   Depending on the setting for the motor control function (ribbon "Motor Management") the correct template has to be added.

4.   Click on the icon for import. Navigate to the folder/disc where you started the installation from. There you'll find the folder "CustomApplicationTemplates". Inside the folder are for each UMC and each motor control function templates which can be used and modified.
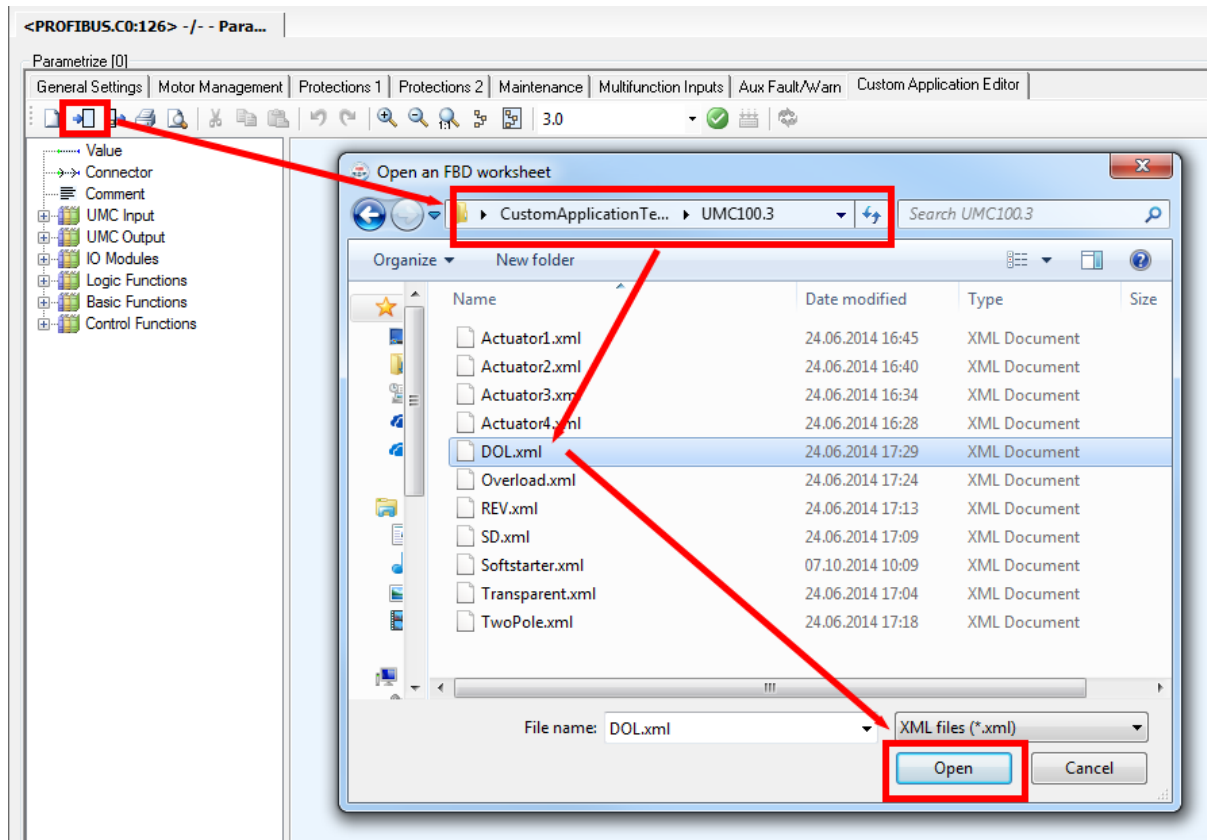
5.   After clicking "Open" the selected template will be inserted to the editor and can be adapted as necessary.

6.   After all modifications click again on "Apply" and then on "OK" to close the window.
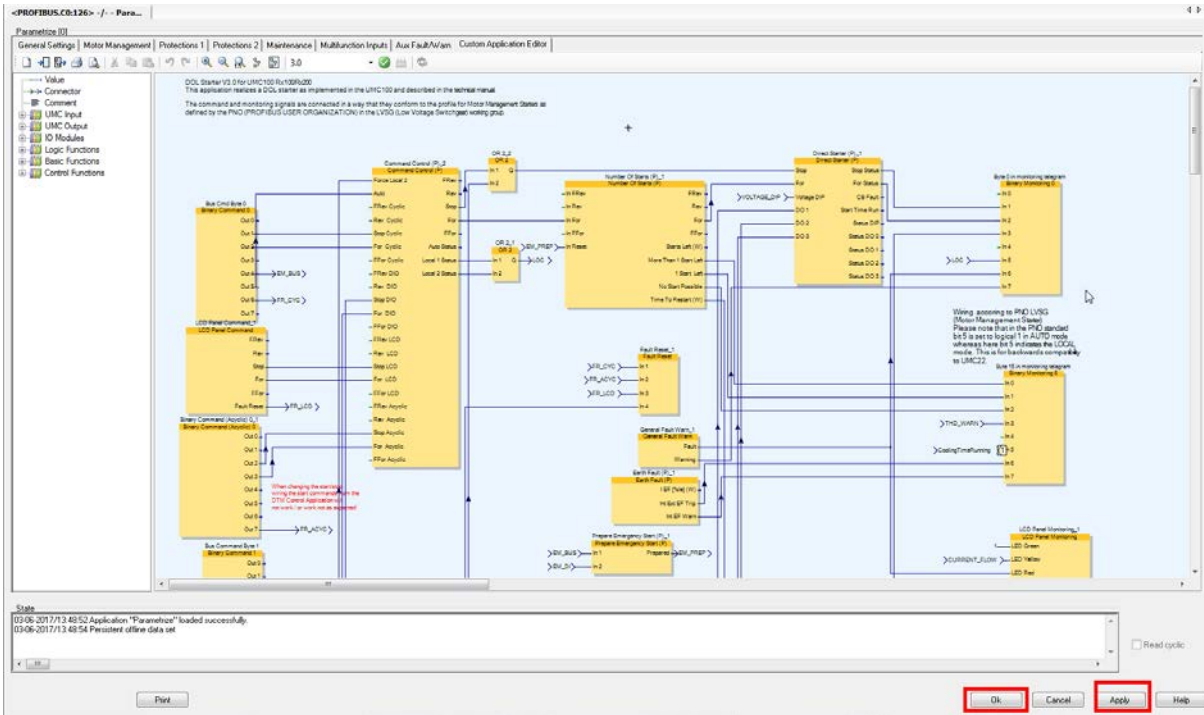
## Going online and data transfer with the UMC100.3

With Asset Vision Basic and a connected UMC it's possible to load the parameterization from the computer to the device and also the other way round. If you want to load the configuration from an UMC to the software, you only have to fulfill all steps until (and including) chapter "Add and configure an UMC100.3".

<u>Going online</u>

1.   Click on the UMC you want to go online with.

2.   Click on the icon "Device On-line / Off-line (Toggle)"
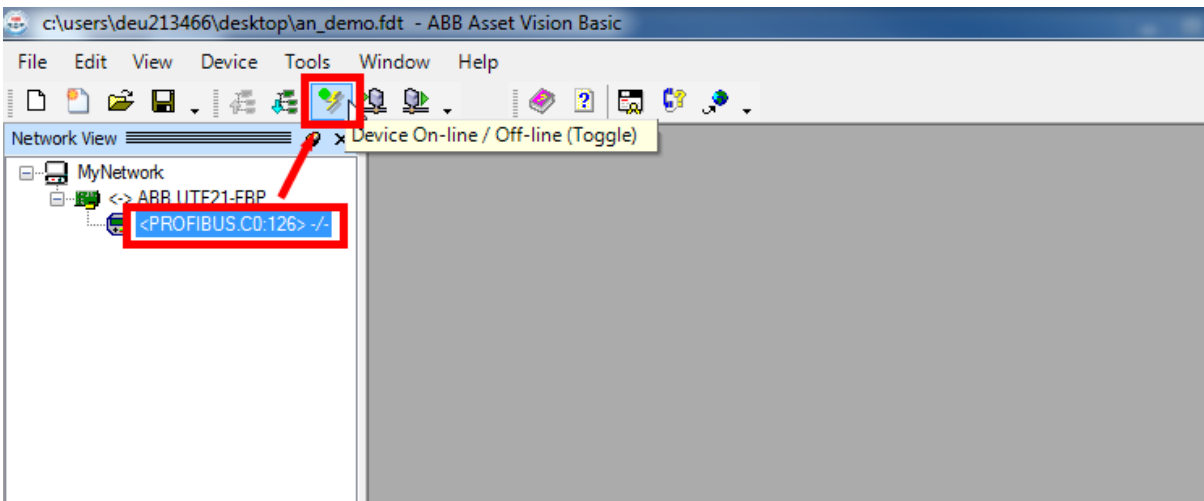
3. You are online when the device is bold and italic.
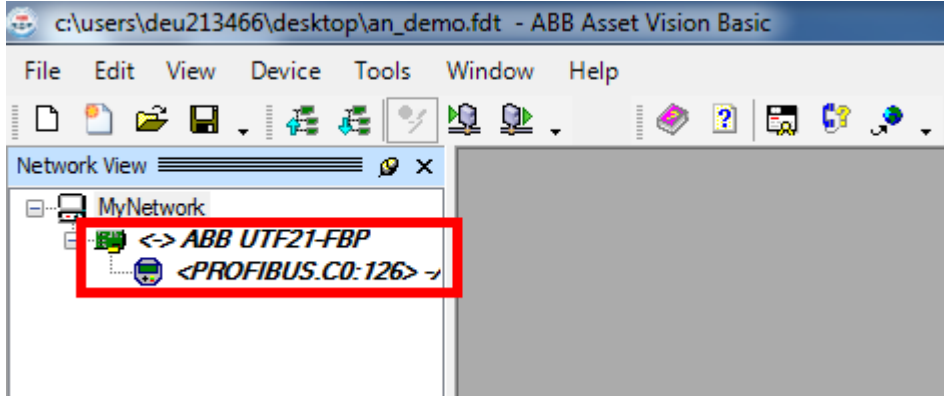
Parameter upload from device

After going online you have the possibility to upload the actual configuration of an UMC to the Software. ATTENTION! The custom application will NOT be uploaded. Please keep a copy of the modified custom application as backup!

1. Mark the UMC which settings shall be overwritten with the upload data.

2. Go online.

3. Click on the icon for "Parameter upload from device" and wait.
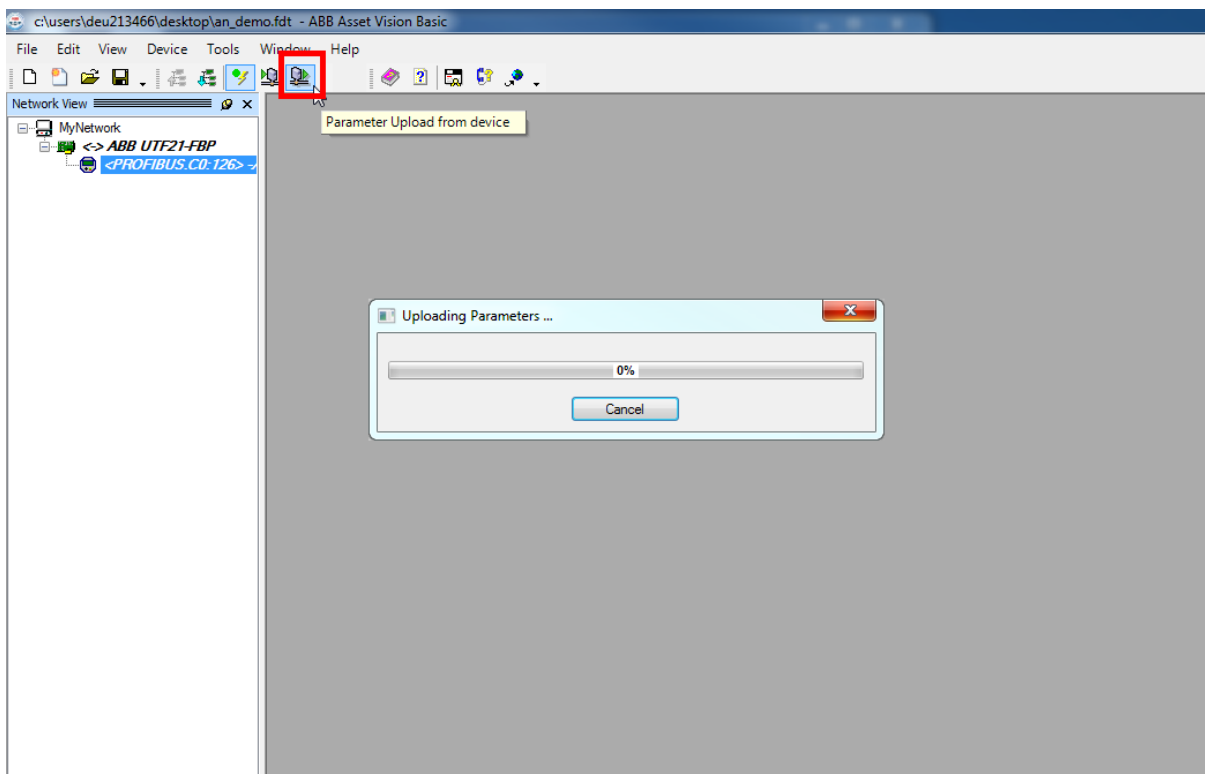
4.   After the upload is complete, you can access the parameterization with a right click on the UMC →
      "Additional functions" → "Parameterize".

Parameter download to device

After parameterizing the UMC the configuration can be downloaded to the UMC.

1.   Mark the UMC which settings shall be downloaded to the device.

2.   Go online.

3.   Click on the icon for "Parameter download to device" and wait.
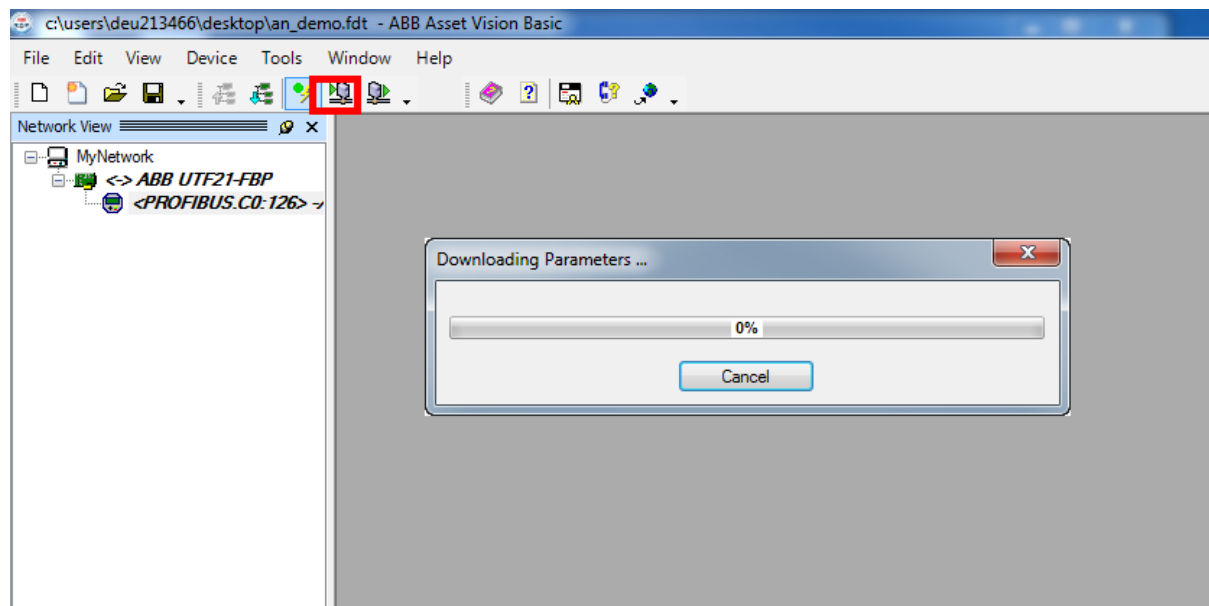
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