

Communication Drivers

Installation Manual

DOLI Elektronik GmbH

Rudolf-Diesel-Str. 3
72525 Münsingen, Germany

☎ Headquarter	+49 7381 767320 0
✉ Info	info@doli.de
💻 Web	www.doli.de
☎ Support	+49 7381 767320 200
✉ Support	support@doli.de

Index

1	Communication Drivers.....	3
2	USB.....	3
2.1	USB Driver installation for Windows 10, 11.....	3
2.1.1	Internet connection available.....	3
2.1.2	No internet connection available.....	4
2.1.3	EDCs with old USB data	7
2.2	USB Driver installation for Windows 8, 8.1.....	8
2.3	USB Driver installation for Windows 7	11
2.4	Uninstalling USB Drivers	18
2.5	Update EDC USB data.....	19
2.6	USB driver check with DoliInstallationCenter	22
3	LAN	23
3.1	LAN Communication Requirements.....	23
3.1.1	Hardware	23
3.1.2	Ethernet adapter settings	23
3.2	LAN driver (WinPcap) installation for Windows 7, 8, 8.1, 10 and 11	25
3.3	LAN driver check with DoliInstallationCenter	27
4	Document Versions.....	28

1 Communication Drivers

In this manual you can find an USB- and a network installation guide for communication driver units. Please follow the quick steps to install the USB- and network drivers.

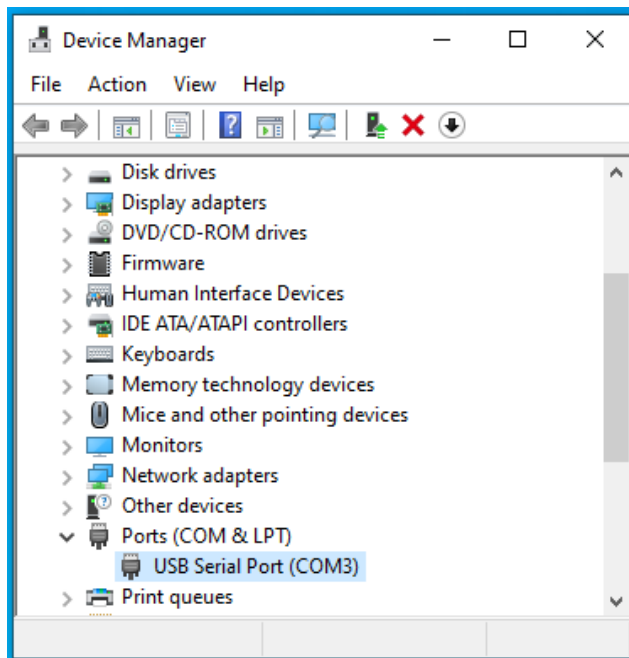
2 USB

2.1 USB Driver installation for Windows 10, 11

The standard USB driver installation routine for Windows 10 and 11 applies for EDC's produced in **January 2023** or later. For EDC's produced before this date please follow the instructions in chapter 2.5

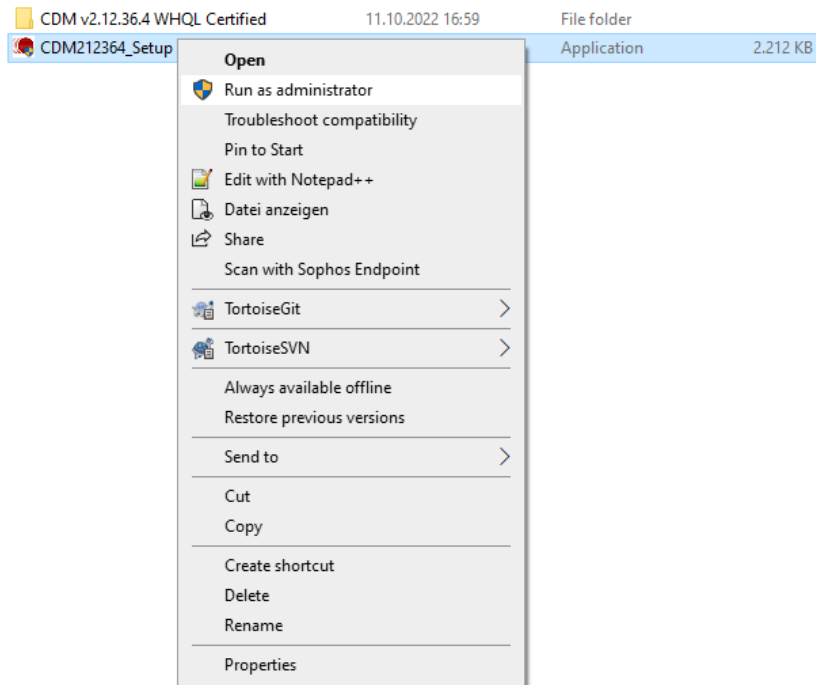
2.1.1 Internet connection available

- Plug-In the EDC USB cable. If the PC has a working internet connection the drivers will be downloaded and installed automatically. This process may take a while.
- After the drivers are installed correctly the EDC will be shown as a "USB Serial Port" device in the Device Manager.

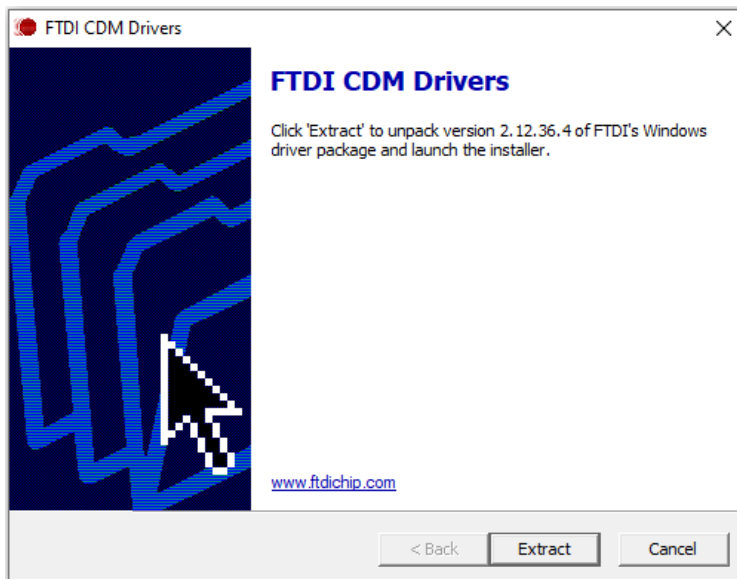


2.1.2 No internet connection available

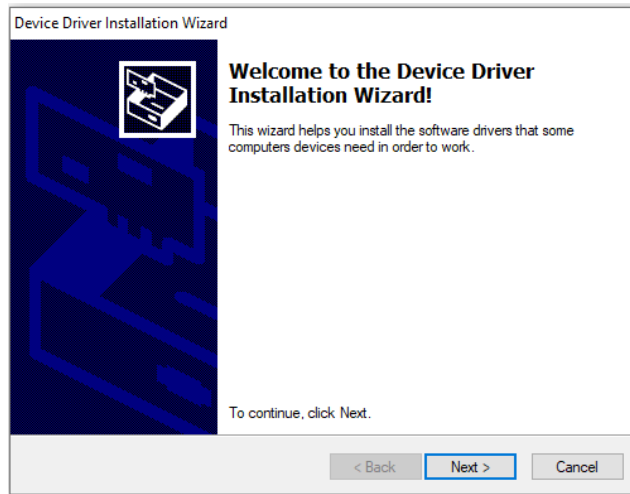
- Execute the driver installation tool (CDM212364_Setup.exe) from [CommunicationDrivers\USB\WIN10_11](#) with administrator rights.



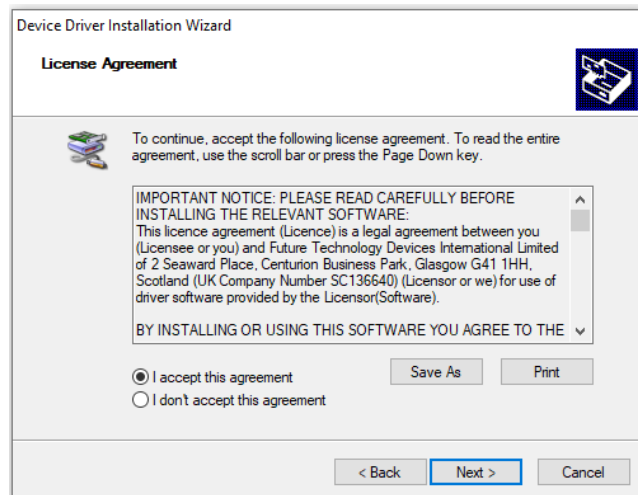
- Follow the instructions and click “Extract”



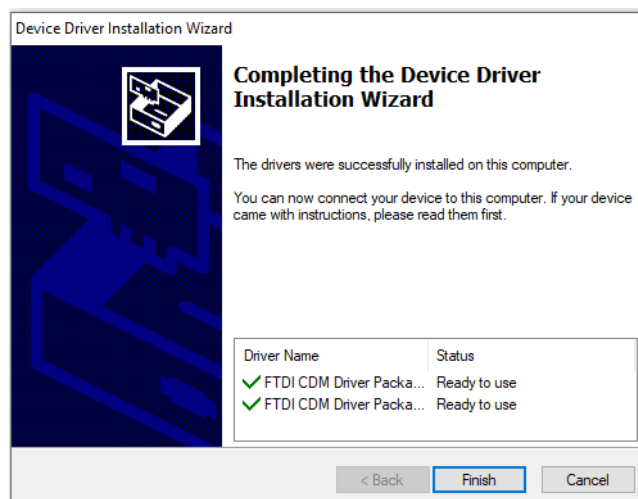
- Click “Next”



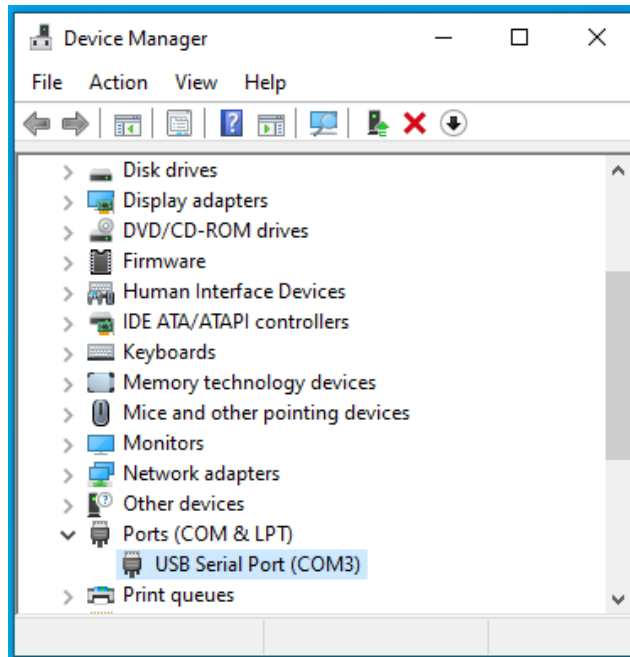
- Accept the agreement and click “Next”



- Click “Finish”, connect the USB cable from your EDC to the PC and wait until the installation of the USB drivers is completed.



- After the drivers are installed correctly the EDC will be shown as a “USB Serial Port” device in the Device Manager.

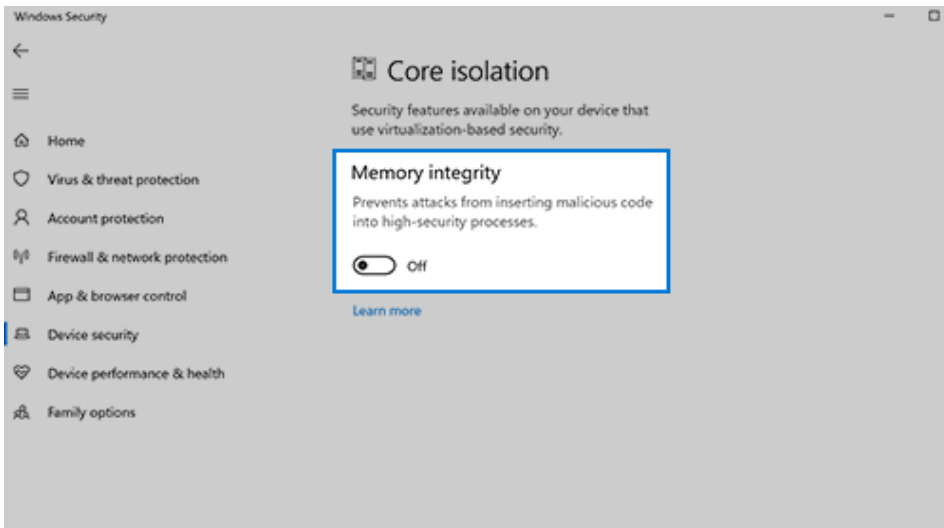


2.1.3 EDCs with old USB data

For EDCs with old USB data, stored in the EDC's USB-Controller, there are to different options for the driver installation depending on the security settings in Windows 10 or 11.

2.1.3.1 Core isolation “Memory integrity” Off

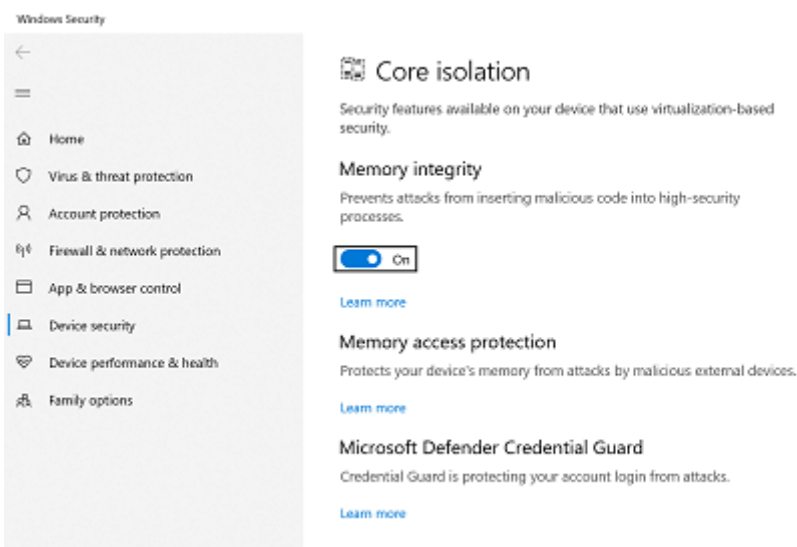
In case the “Memory integrity” is not used on your PC (Memory integrity is activated by default in Windows 11) you can install the signed USB-Driver for Windows 8, 8.1 as described in chapter 2.2.



2.1.3.2 Core isolation “Memory integrity” On

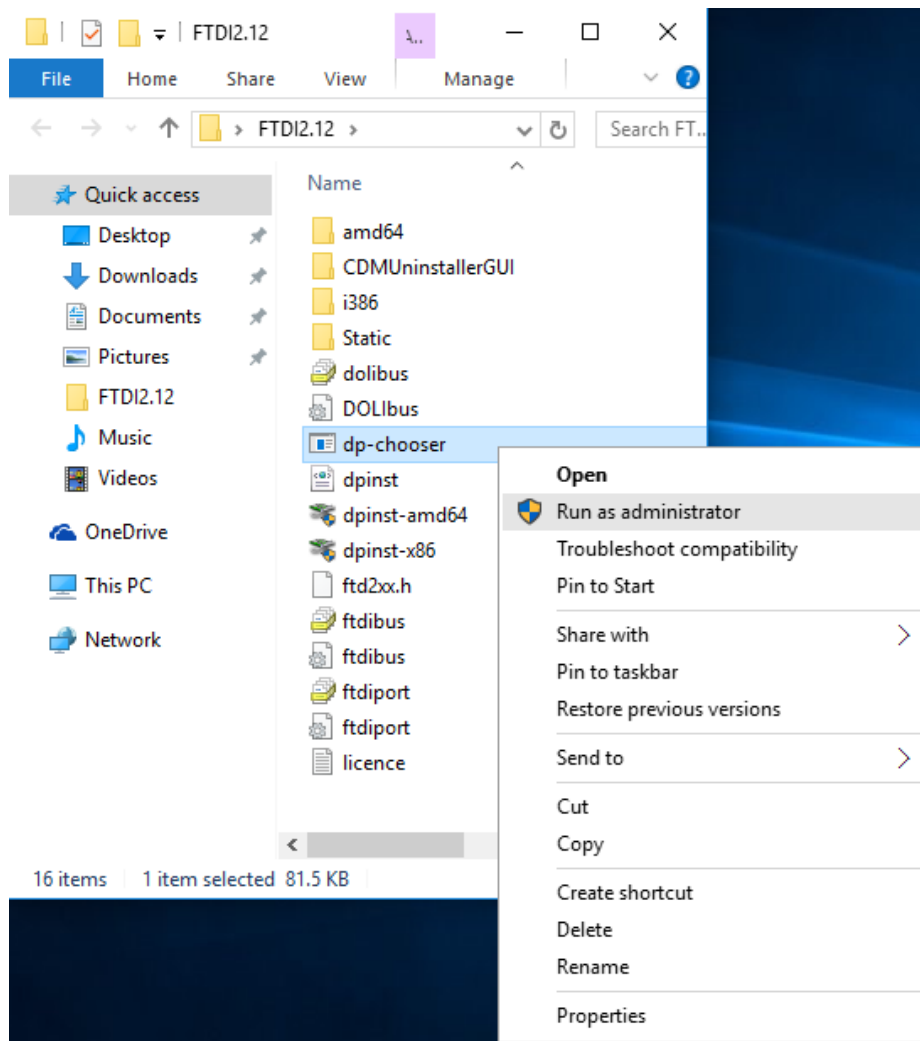
In case you want to switch on the “Memory integrity” on your PC or it is already activated (Memory integrity is activated by default in Windows 11), it is necessary to update the USB data which is stored in the EDC USB controller. This is required to use new standard WHQL Certified FTDI driver which is compatible with this Windows safety feature.

To update the EDC USB data please follow the instructions in chapter 2.5.

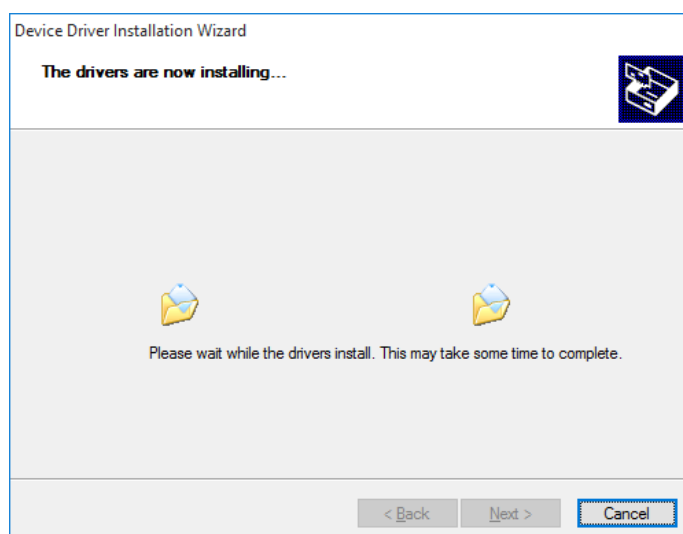
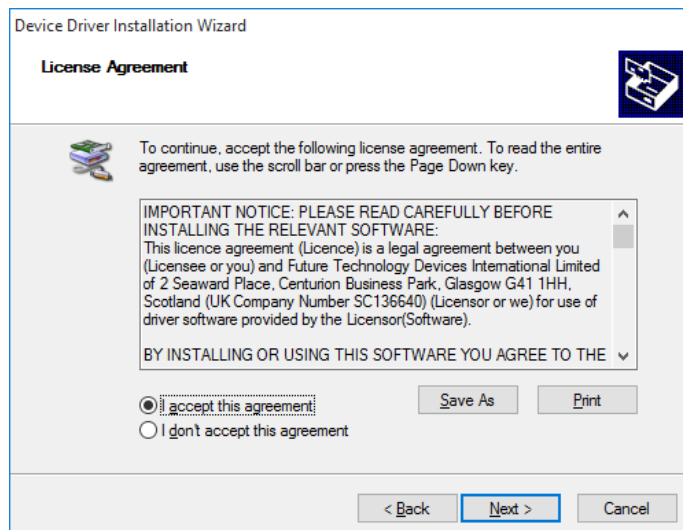
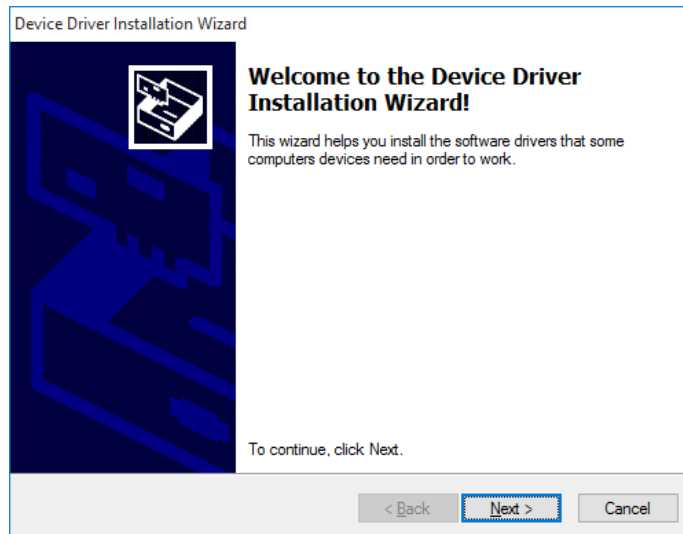


2.2 USB Driver installation for Windows 8, 8.1

- Execute the dp-chooser installation tool from [CommunicationDrivers\USB\WIN8_8.1](#) with administrator rights

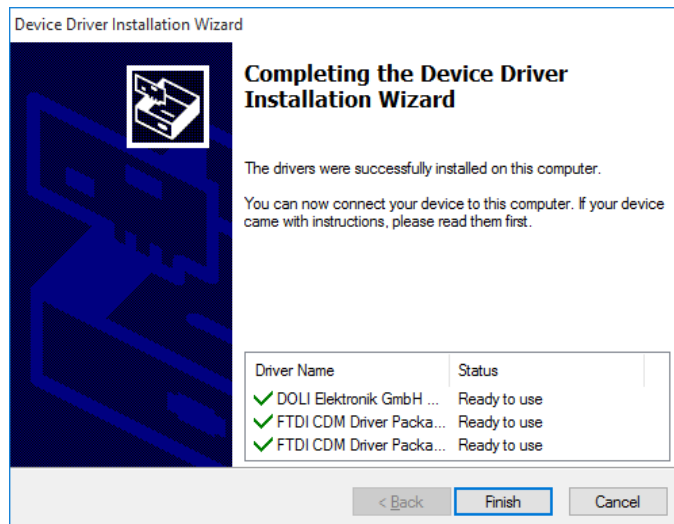
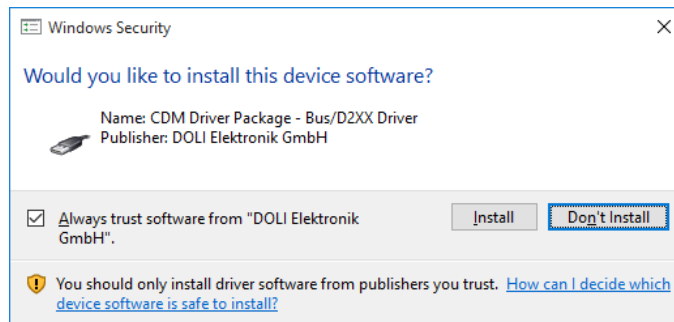


- Follow the installation instructions

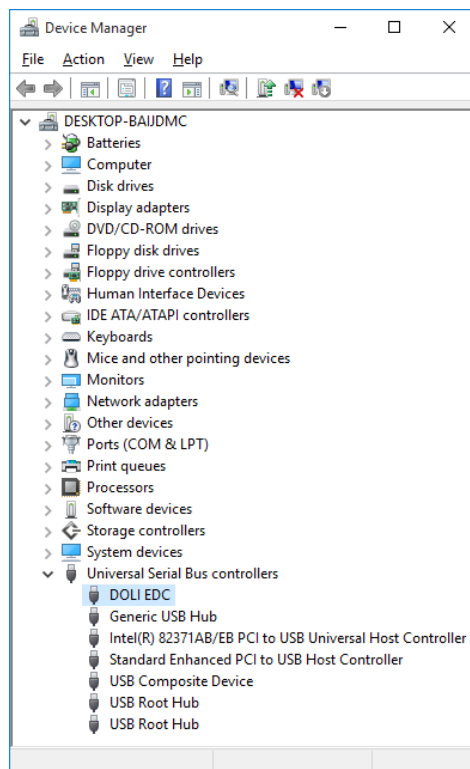


Communication Drivers

USB Driver installation for Windows 8, 8.1

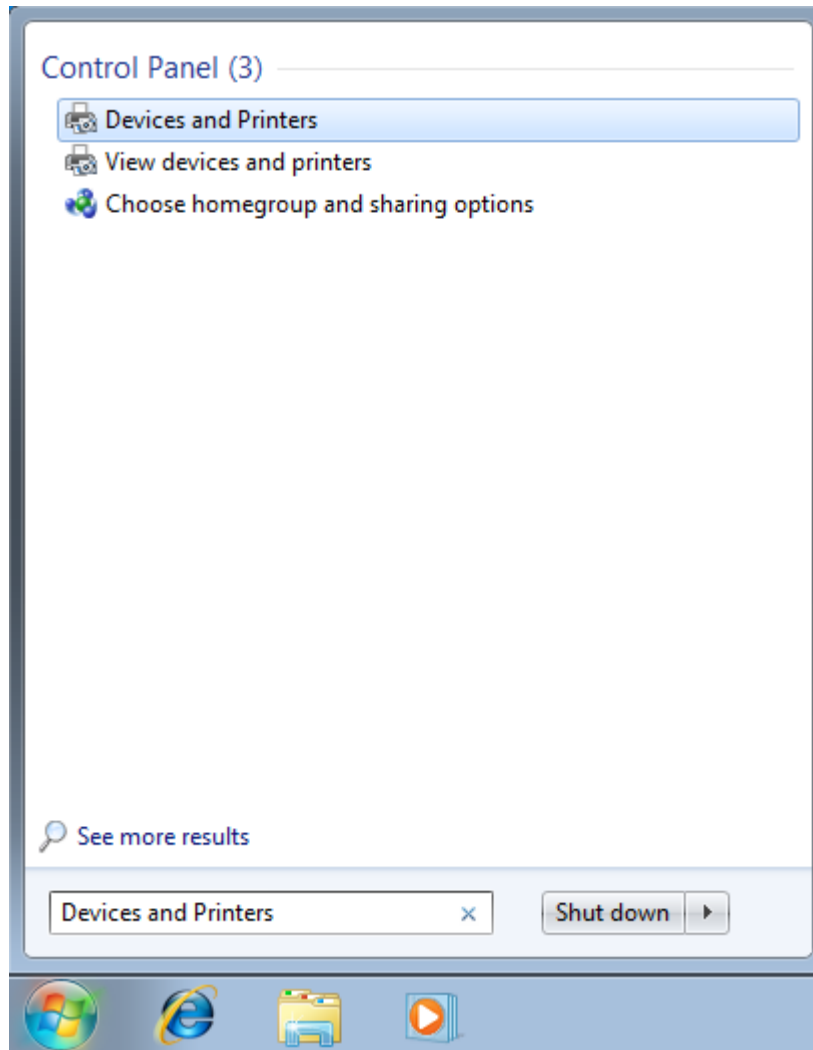


- Connect the USB cable from your PC with the EDC and wait until the installation of the USB drivers is completed. Then check if the EDC shows up in the device manager.

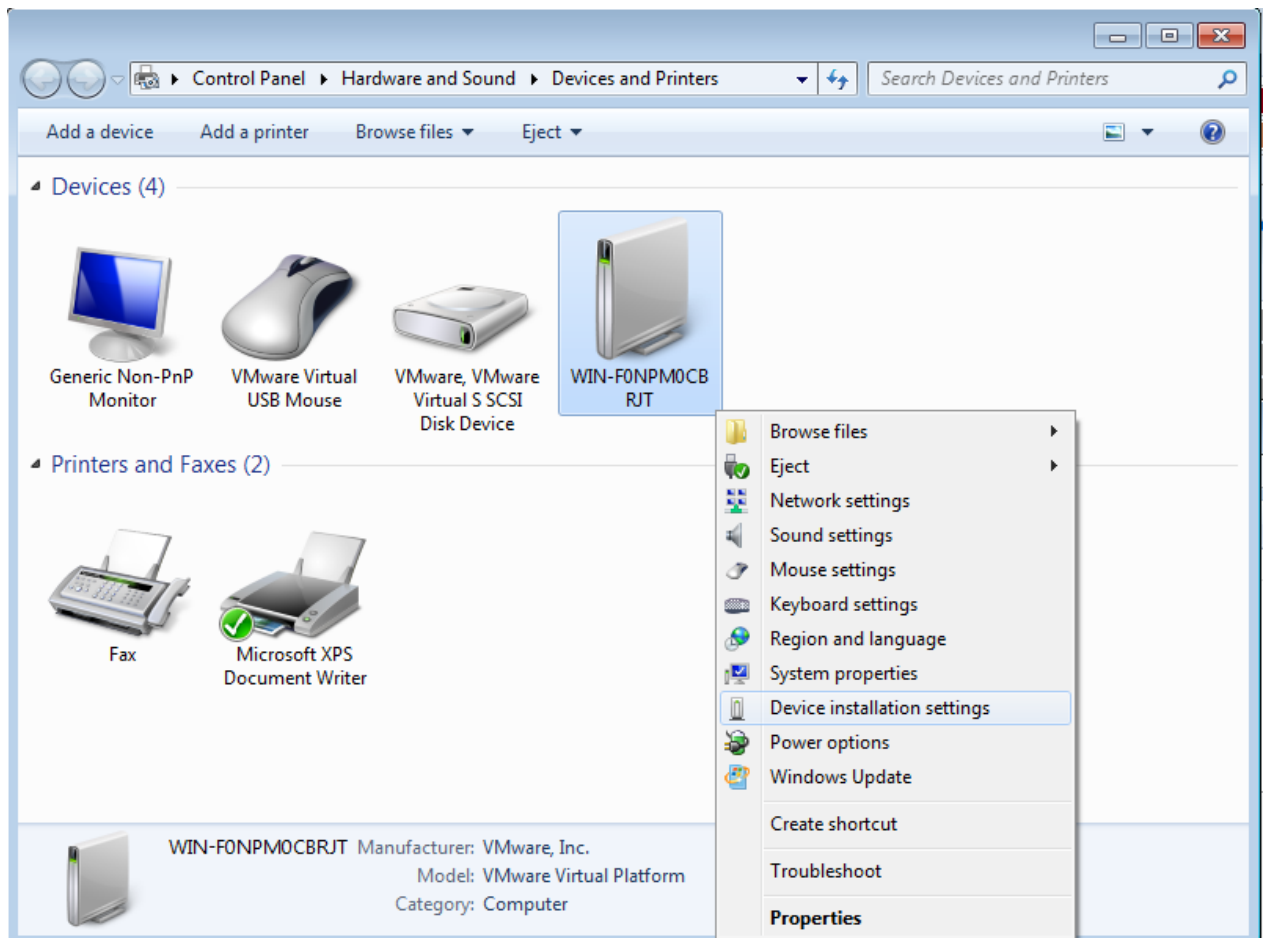


2.3 USB Driver installation for Windows 7

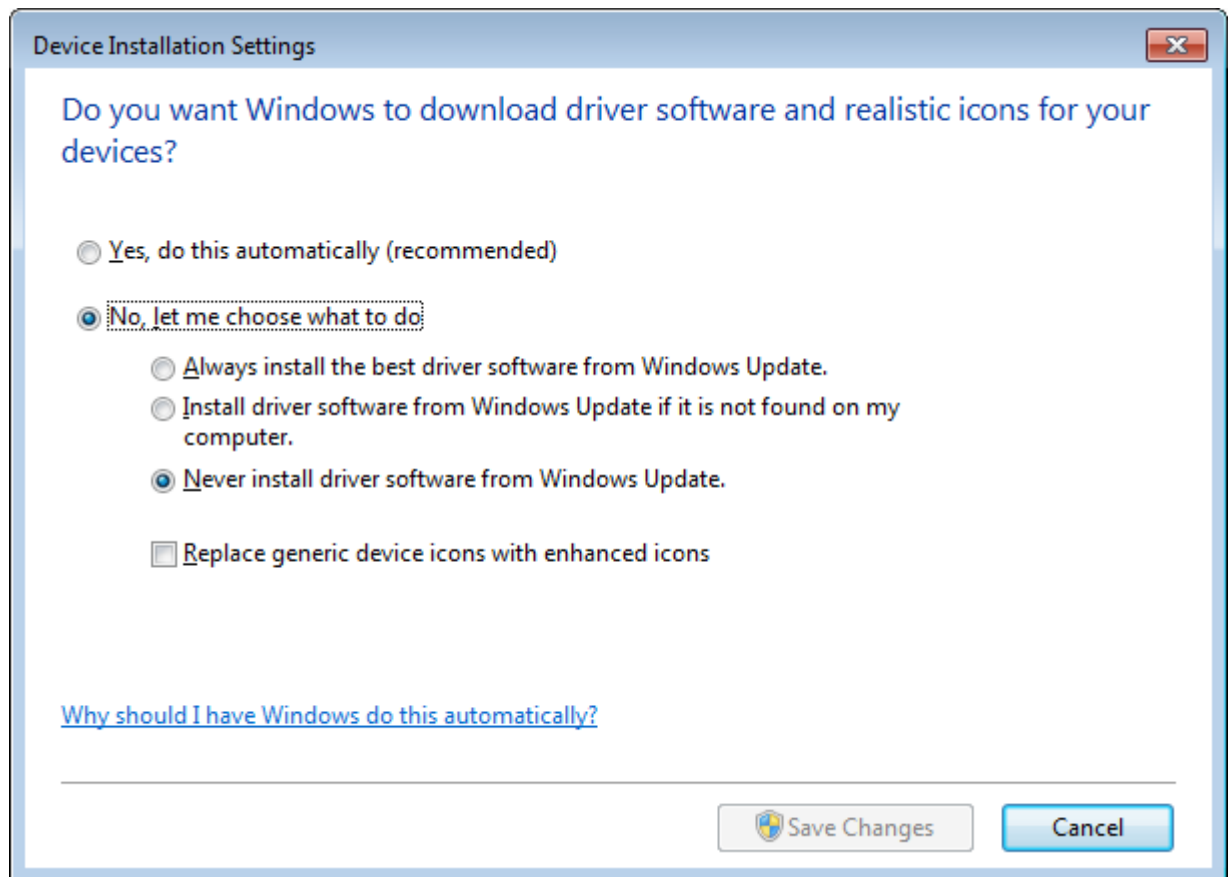
- Uninstall any previously installed FTDI drivers with the uninstall tool from [CommunicationDrivers\USB\CDMUninstallerGUI](#) (refer to chapter 1.1.3)
- Disable automatic driver installation:
Click **Start**, type Devices and Printers in the search box, and then click **Devices and Printers**.



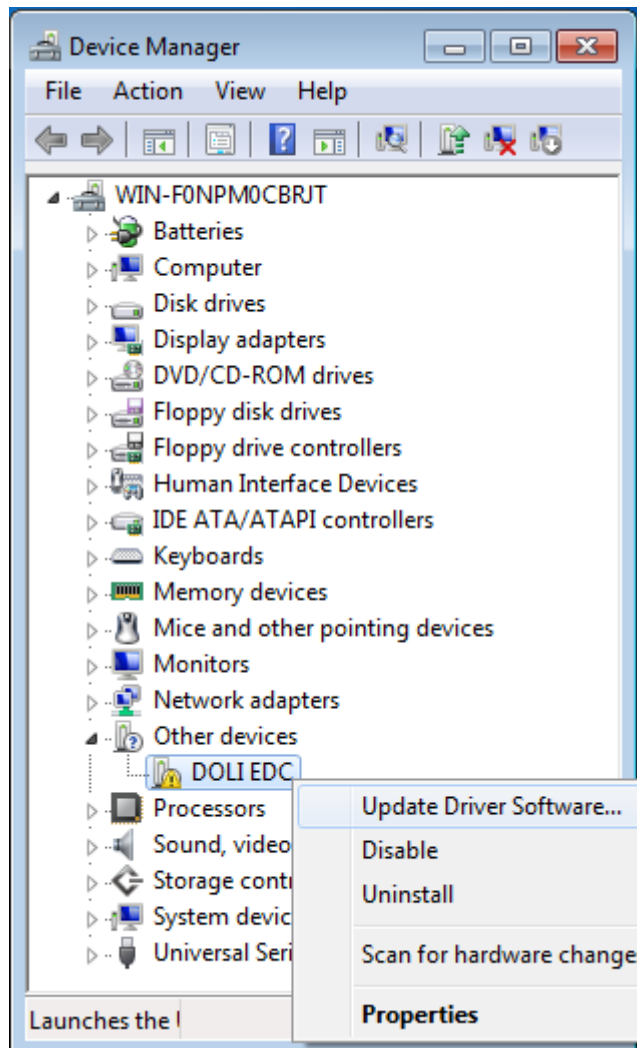
- Under **Devices**, right-click the icon for the computer, and then click **Device installation settings**.



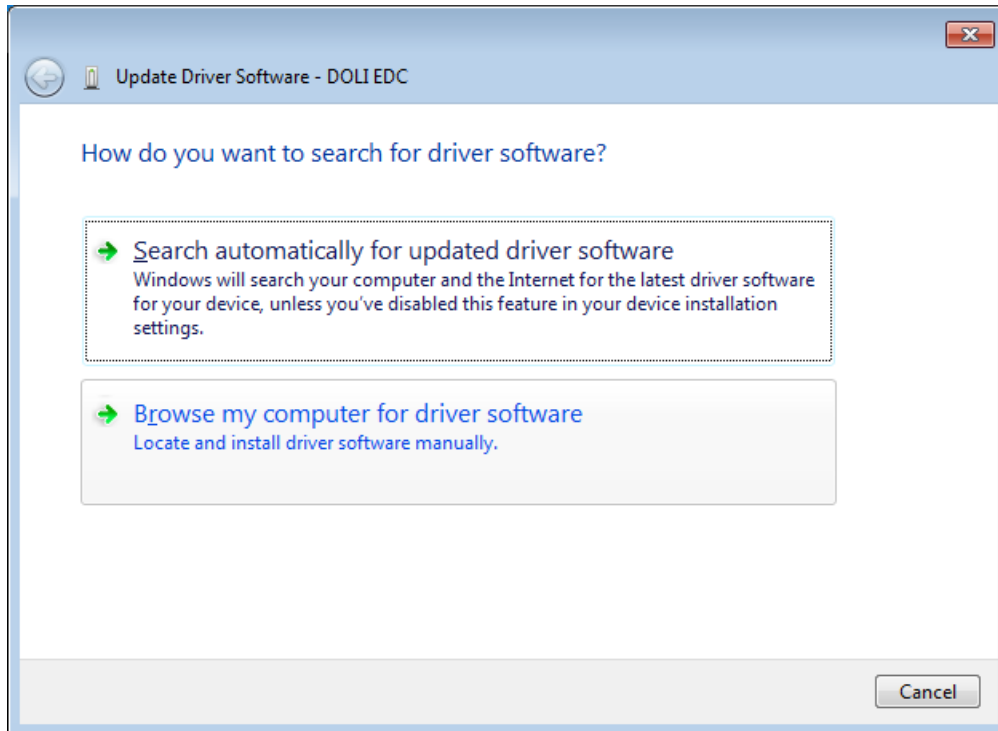
- Click to select **No, let me choose what to do**, select **Never install driver software from Windows update**, and then click **Save Changes**



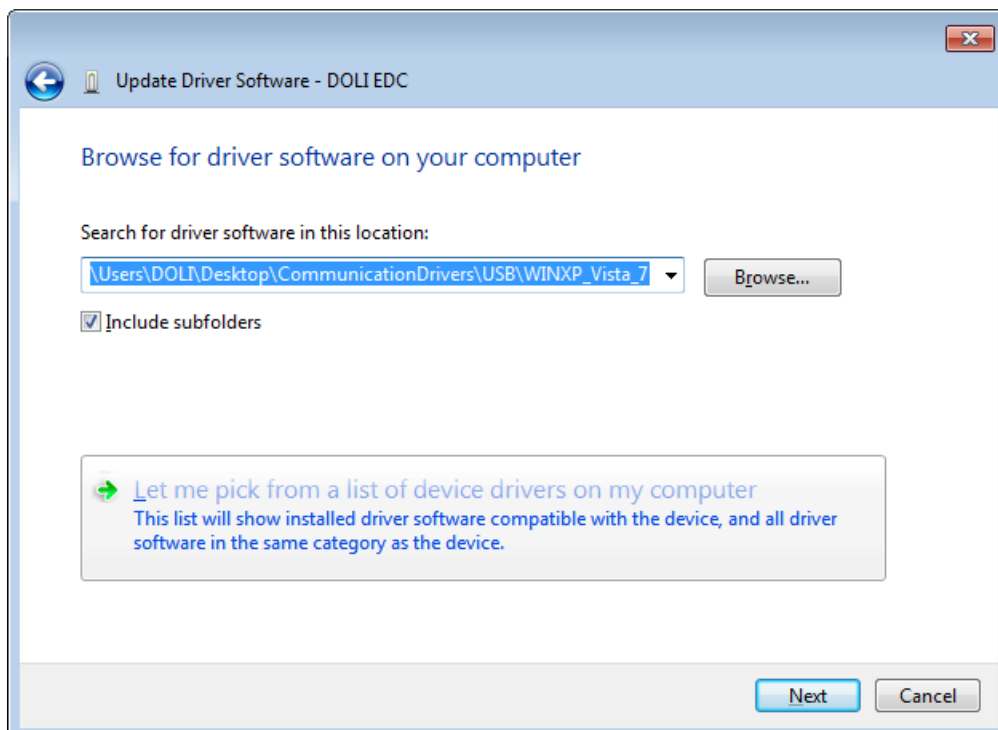
- Connect the USB cable from your PC with the EDC.
- To open the Device Manager click **Start**, type **devmgmt.msc** and press **Enter**. Then right click on the DOLI EDC icon and select **Update Driver Software...**



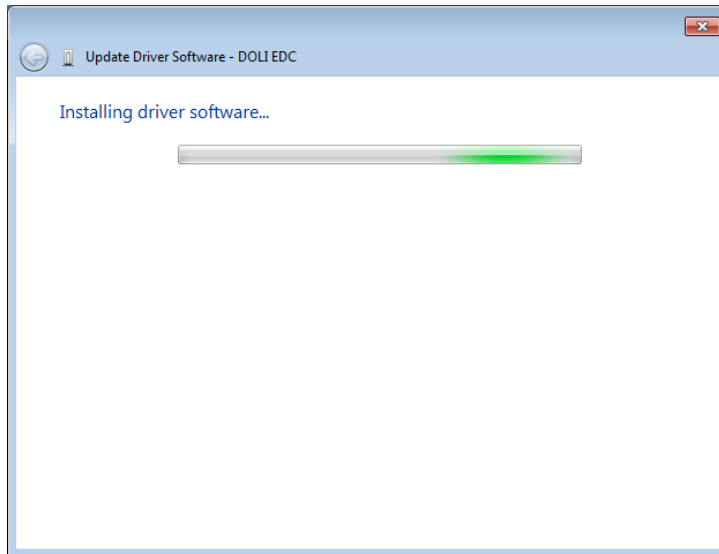
- **Browse** the computer for driver software and press **Next**



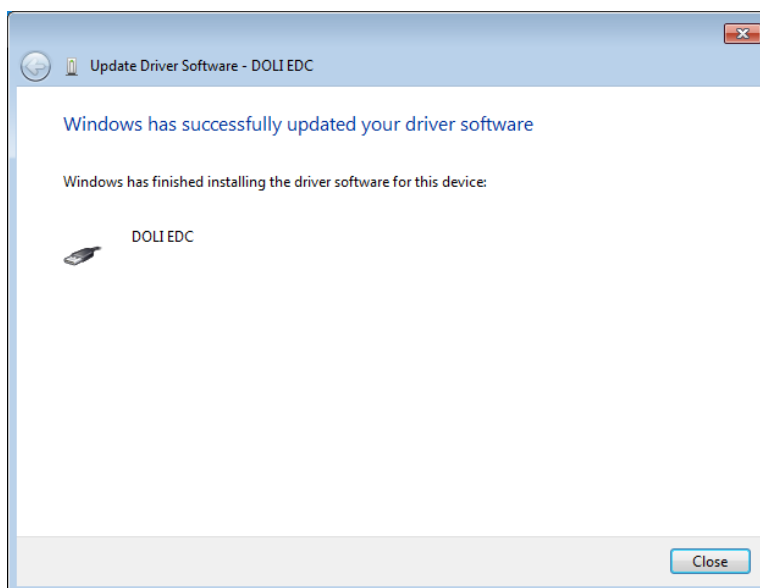
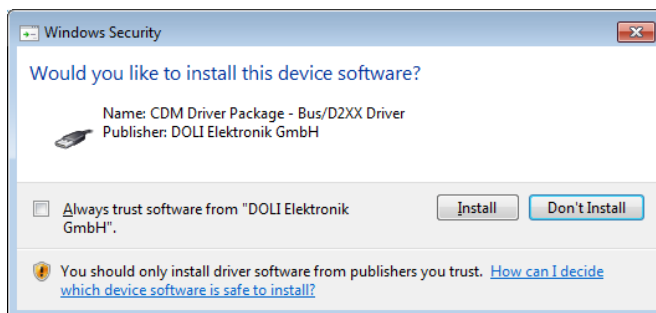
- Make shure to select the **WIN7** directory



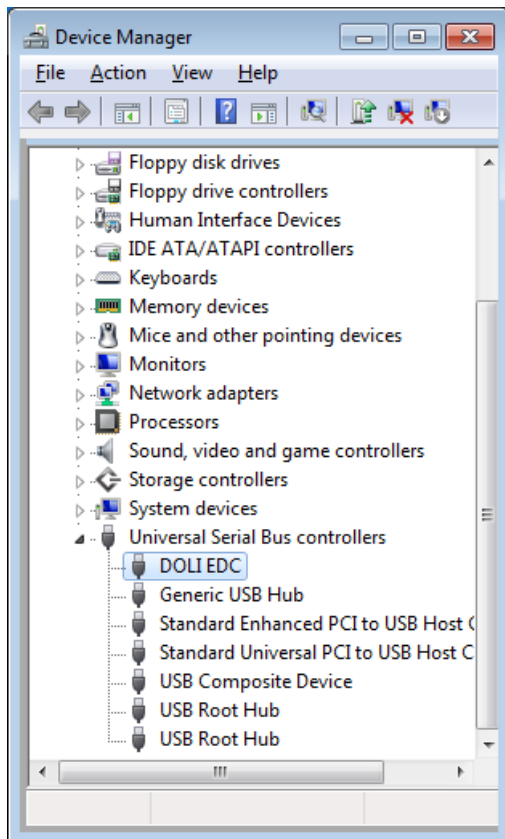
- The installation starts.



- Allow to **Install** the driver



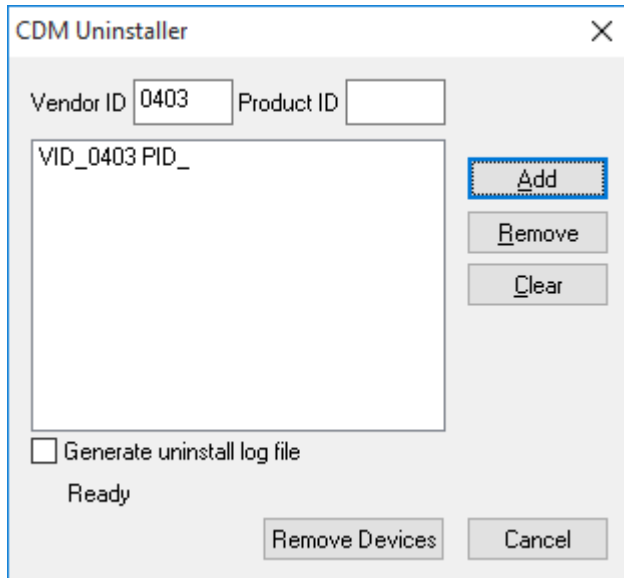
- After successfully installing the driver, the EDC appears in Universal Serial Bus Controllers section in the Device Manager



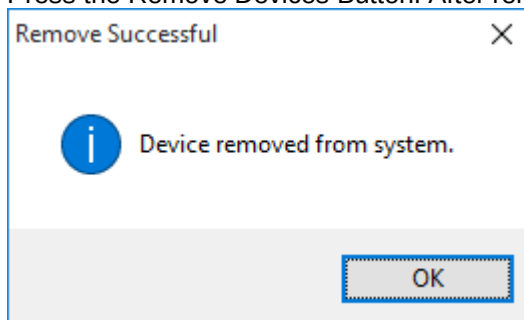
2.4 Uninstalling USB Drivers

In the CommunicationDrivers USB directory ([CommunicationDrivers\USB\Tools\CMDUninstallerGUI](#)) we provide the CMDUninstallerGUI.exe tool.

- Run the EXE and clear the Product ID field. Then press the Add Button:



- Press the Remove Devices Button. After removing the driver the uninstaller will report success:



- For more details refer to the readme.html file in the CMDUninstallerGUI directory.

Note: Under Windows 7 and above you should run the uninstaller with administrator rights.

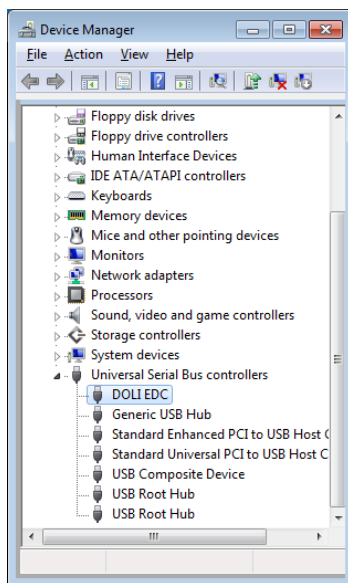
Note: Never install USB drivers of different versions on the same machine. This would lead to unpredictable results.

2.5 Update EDC USB data

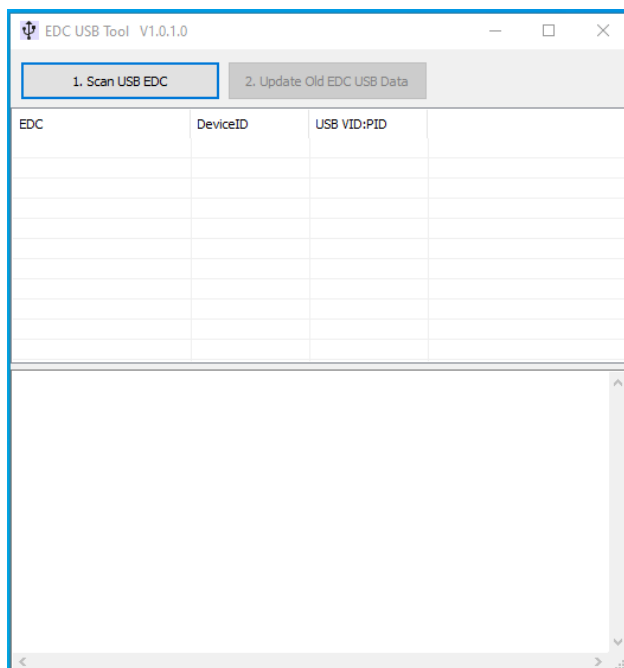
Note: This step is only necessary for EDCs with old EDC USB data (**delivered before January 2023**) used with new standard WHQL Certified FTDI driver.

To update the EDC USB data the software tool “EdcUsbTool“, which is included in the driver package, can be used. This program is a portable version and doesn’t need to be installed. Nevertheless, it is necessary to install the signed Windows 8, 8.1 USB driver according to chapter 2.2. and to deactivate the “Memory integrity” in the Windows security settings. After successful installation of the driver please follow the steps below.

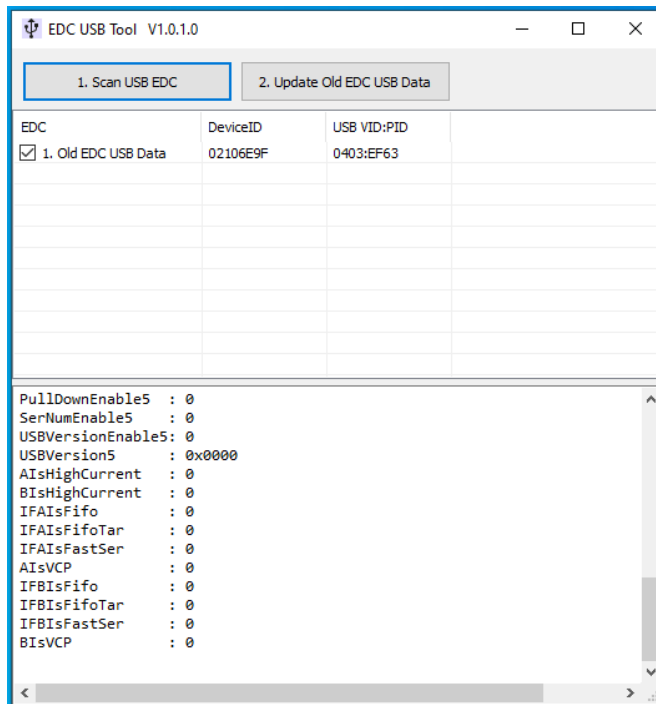
- Connect all EDCs to be updated via USB to the PC
- Make sure the EDCs show up as “DOLI EDC” in the Device Manager.



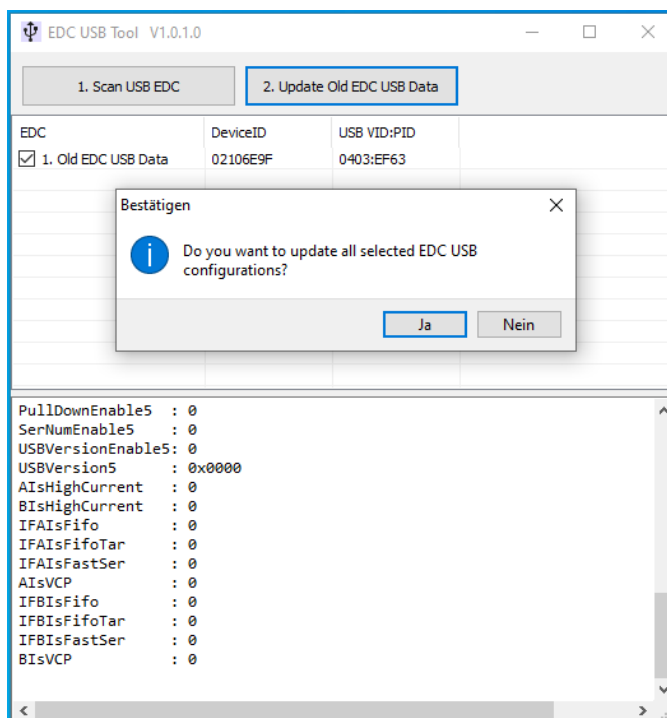
- Start the program EdcUsbTool.exe ([CommunicationDrivers\USB\Tools\EdcUsbTool](#))



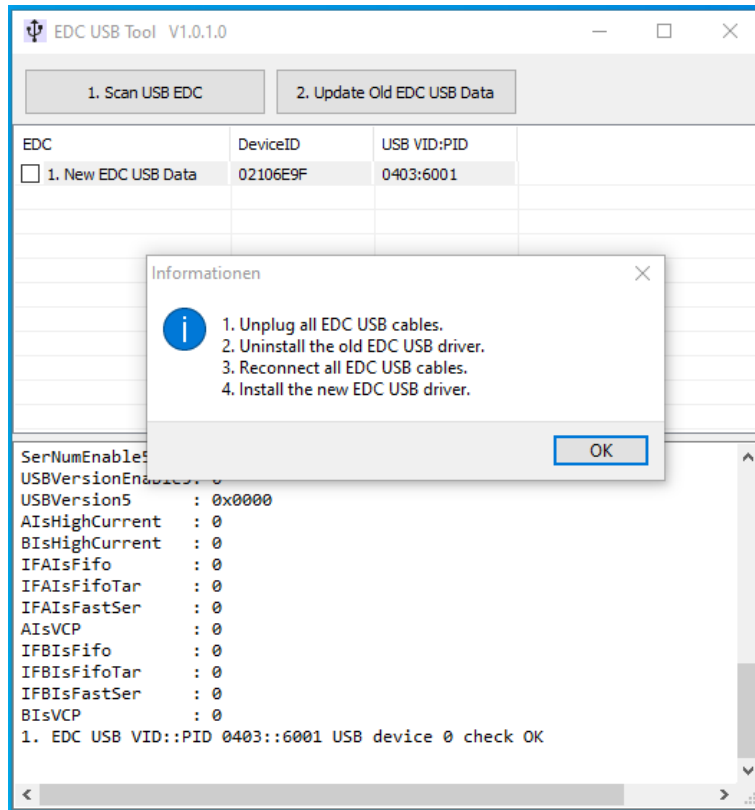
- Click the button “Scan USB EDC”. Then all EDCs connected via USB will show up in the list. EDCs with the old PID-number (EF63) will show up as “Old EDC USB Data” and EDCs with new PID-number will show up as “New EDC USB Data”.



- Check the EDCs you want to update and click the button “Update Old EDC USB Data”. Only Old EDC USB Data can be updated.



- Confirm the window with “Yes”. The updated USB Data will be downloaded to the EDC USB-controller. Afterwards the EDCs will show up as “New EDC USB Data”



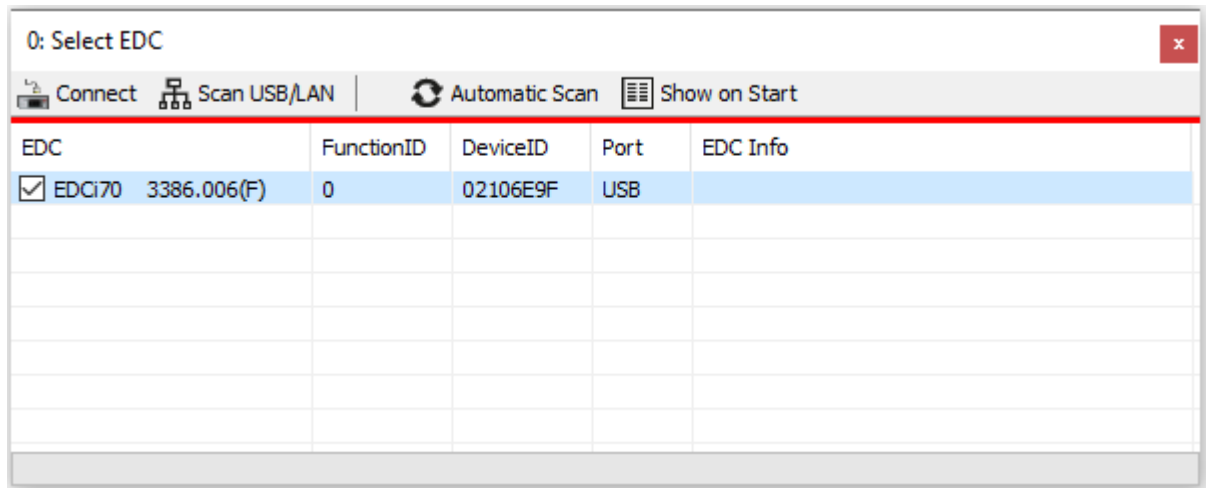
- After updating the EDC USB data, the USB cable of the EDCs must be unplugged and the old driver has to be uninstalled as described in chapter 2.4
- Now the EDC can be handled as a EDC with new USB data. And the standard USB driver installation procedure as described in chapter 2.1 can be applied.

2.6 USB driver check with DolInstallationCenter

In the next step you can test the installation with DolInstallationCenter.

Note: Make sure that the USB cable is connected from the EDC to the PC and the EDC is in PC-CONTROL mode

- Start the DOLI Installation Center and press “Scan USB/LAN”. The EDC should be listed in the dialog



- The USB driver has been installed successfully.

3 LAN

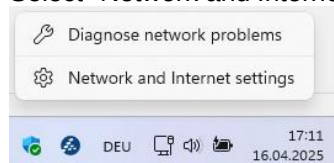
3.1 LAN Communication Requirements

3.1.1 Hardware

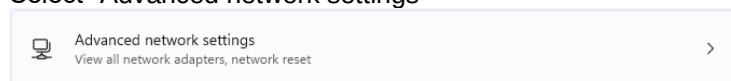
- For LAN communication with EDC's a dedicated ethernet card used only for this purpose must be installed.
- The ethernet adapter must support 1Gbit/s (GbE).
- For communication with multiple EDC's the ethernet switch must support 1Gbit/s (GbE), too.
- Only shielded ethernet cables CAT6 with shield connectet at both ends must be used
- PC and EDC's must be connected to the same ground potential (functional earth).

3.1.2 Ethernet adapter settings

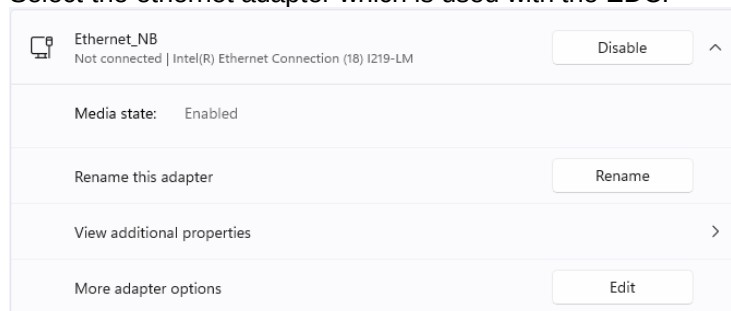
- **Deactivate all ethernet protocols like TCP/IPv4, TCP/IPv6, ...**
 - Start your PC and right click on the network icon in the system tray. Select "Network and Internet settings".



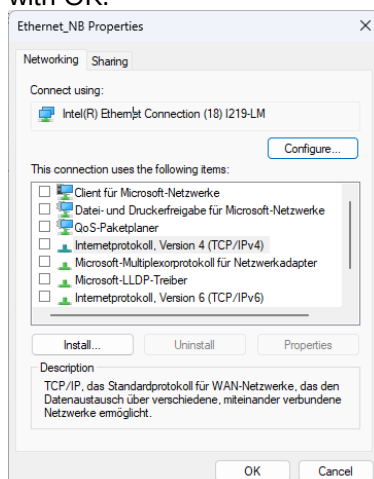
- The "Network & Internet" window opens. Select "Advanced network settings"



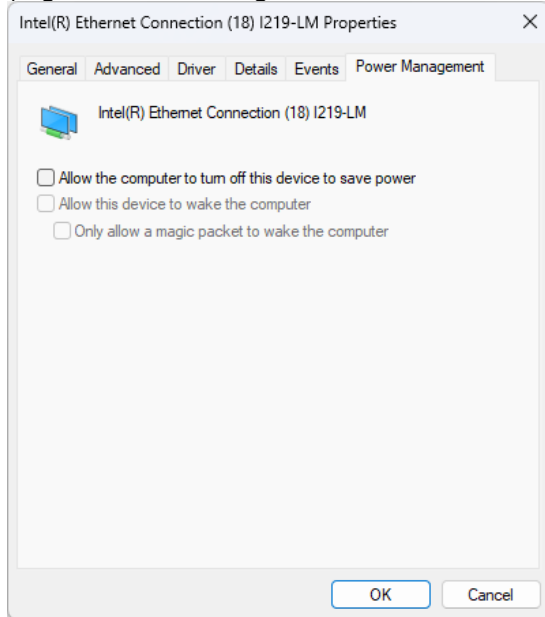
- Select the ethernet adapter which is used with the EDC.



- Right click on "Edit" More adapter options and remove all check marks in this dialog and confirm with OK.

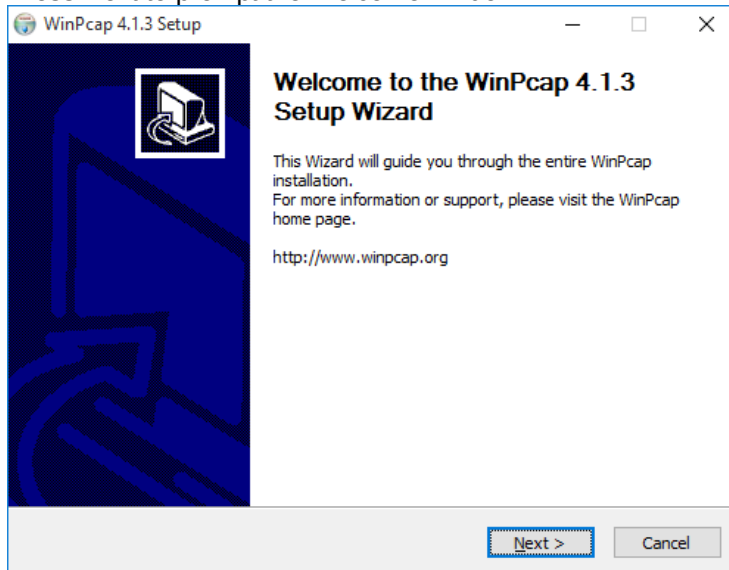


- **Deactivate all energy saving options for this network connection**
(Right click on "Configure" and select the "Power Management" tab)

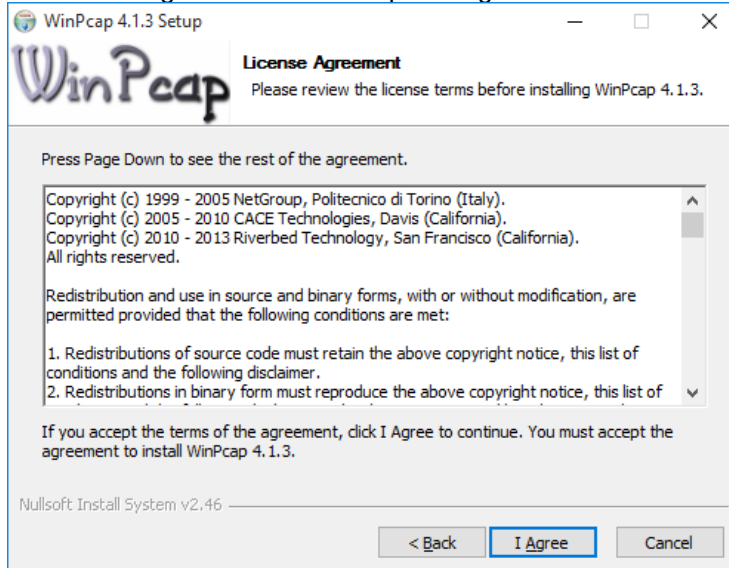


3.2 LAN driver (WinPcap) installation for Windows 7, 8, 8.1, 10 and 11

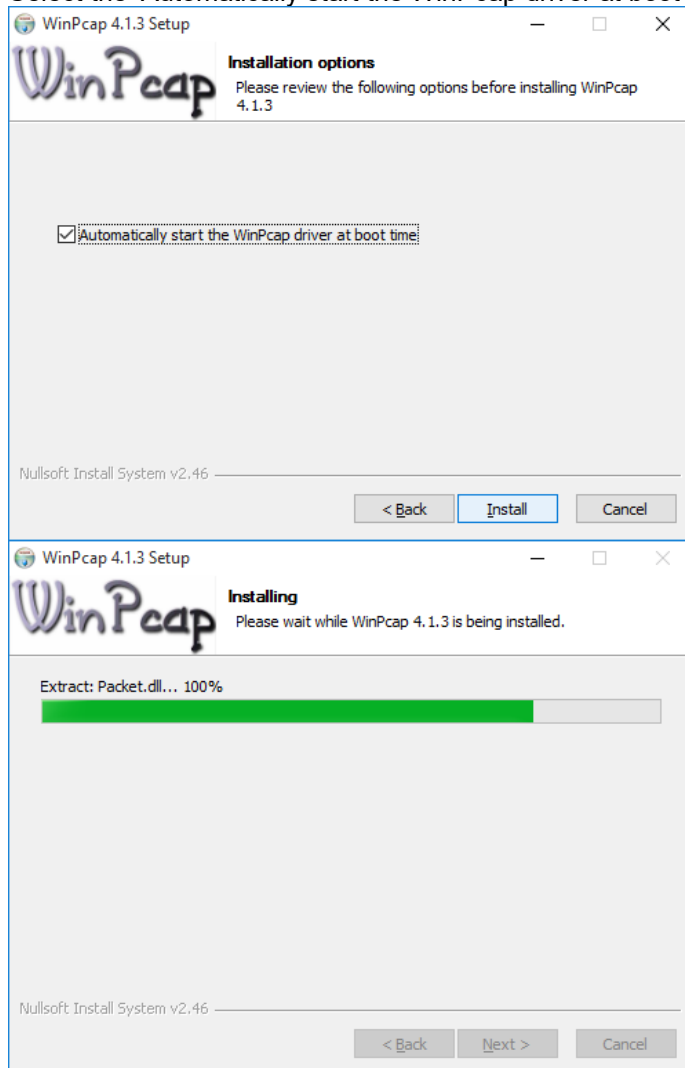
- Uninstall any previously installed versions of WinPcap or Npcap from
Start → Apps and Features
- Doubleclick on the driver file: \CommunicationDrivers\LAN\WinPcap_4_1_3.exe.
WinPcap 4.1.3 Installer starts to install.
- Press Next to prompt the Welcome window.



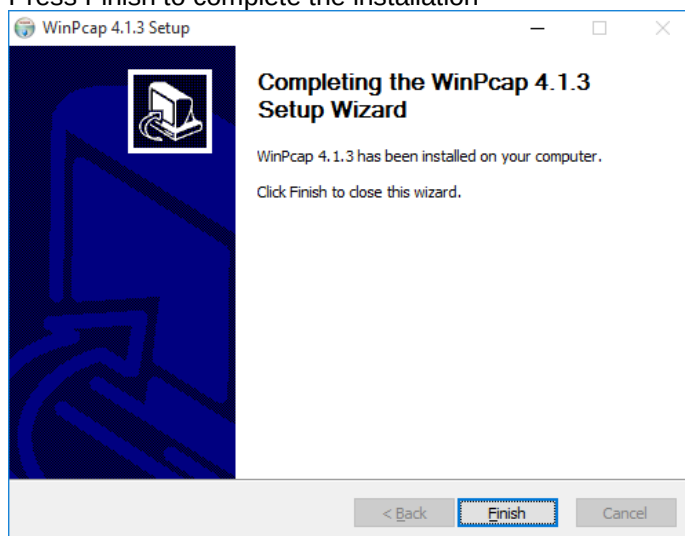
- Press the I Agree button to accept the agreement terms.



- Select the 'Automatically start the WinPcap driver at boot time'. This installs WinPcap for all users.



- Press Finish to complete the installation



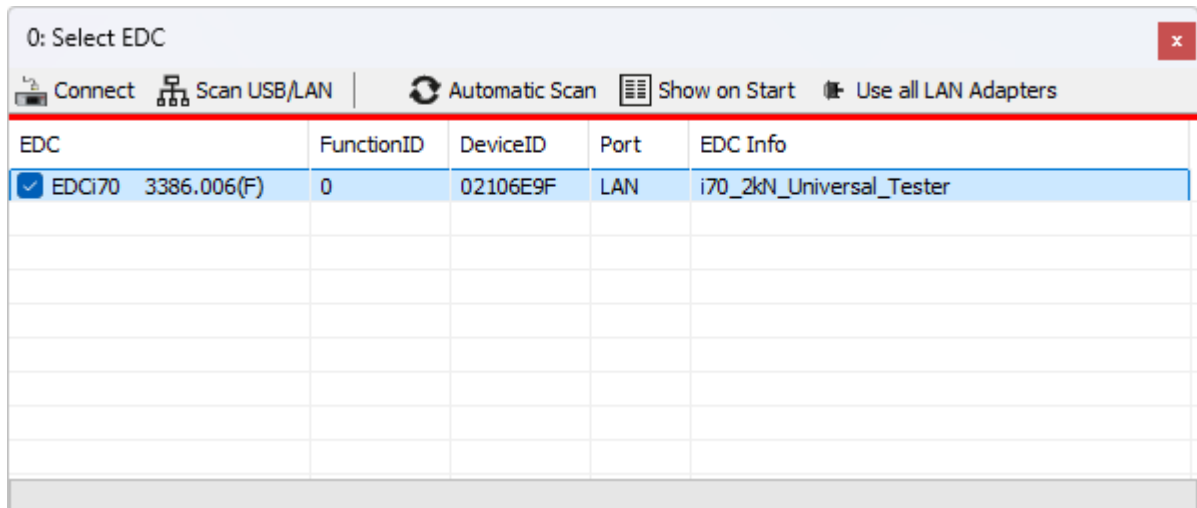
- Restart your computer.

3.3 LAN driver check with DolInstallationCenter

In the next step you can test the installation with DolInstallationCenter.

Note: Make sure the ethernet cable is connected to EDC and PC and the EDC is in PC-CONTROL mode.

- Start the DOLI Installation Center and press “Scan USB/LAN”. The EDC should be listed in the dialog.



- The LAN driver has been installed successfully.

4 Document Versions

Version	Changes	Date	Name
1.0	First version	2022-09-23	HEG
2.0	• Installation of USB Drivers for Win10 and Win11 added. • Updating procedure for EDCi-USB-PID-Number with EdcUsbTool V1.0.1.0 for WIN10 and WIN11added.	2022-10-24	GRS
2.1	• Ethernet adapter energy saving settings added.	2025-04-16	GRS
2.2	• LAN communication requirements added.	2025-04-28	GRS