

XDi

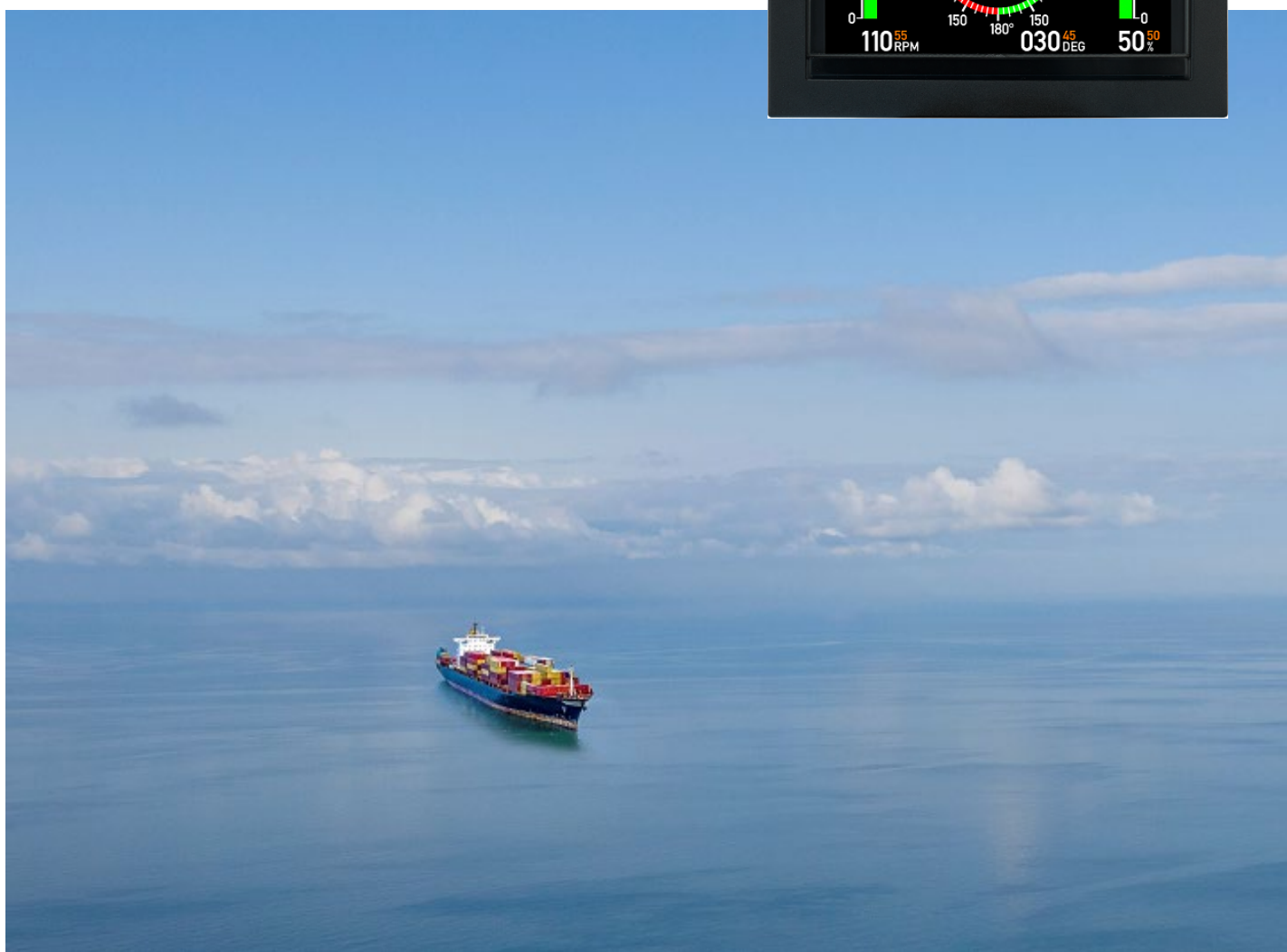
Flexible display indicator

XDi Upgrade Tool Installation and User manual

4189350088-C



Marine
Instruments



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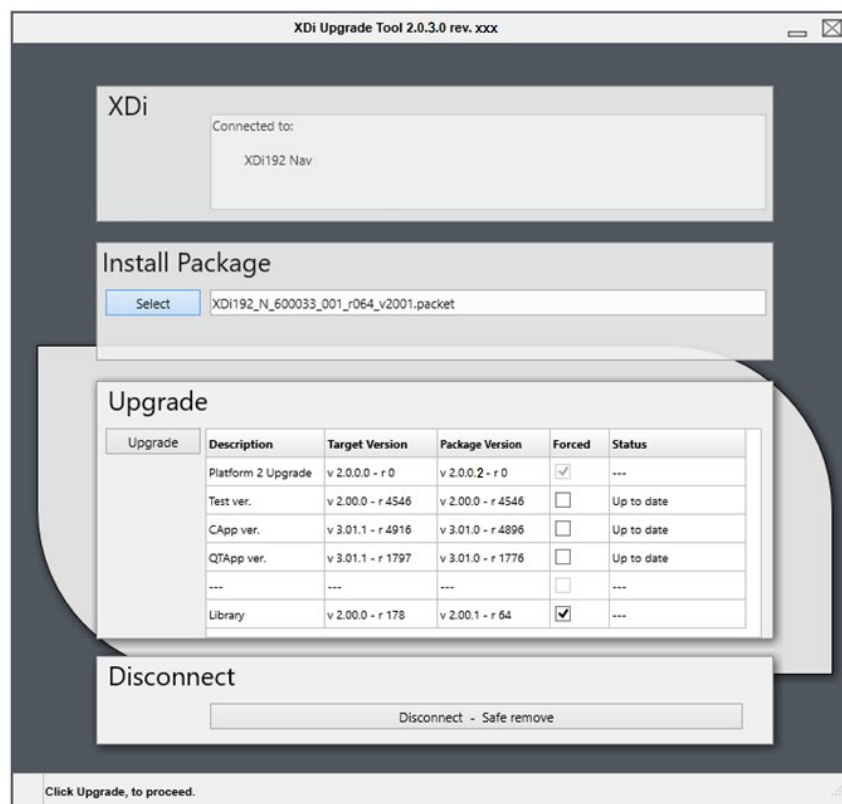
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1. Introduction

The XDi Upgrade Tool is used to update the software and library of the XDi. This is mainly used when the library needs an update because new indicators has been added. This instruction describes how to install the XDi Upgrade Tool and how the software downloaded is performed.



NOTE The screenshot shown in this manual may look slightly different from the actual screens depending on Windows version.

2. System requirements

PC or Laptop with Windows 7 – 8.1 – 10, 11.

32 bit and 64 bit versions of Windows are supported.

2.1 Downloading software

The XDi Upgrade Tool can be downloaded from our Web site.

<https://www.deif.com/software/xdi-upgrade-tool/>

☐ E-mail notification on future releases

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Put in your E-mail address and press the Download button.

Follow the link in the E-mail and open or save the zip file.



Note

It is recommended check the “E-mail notification on future releases” checkbox so you can be informed when new versions of the tool are released.

3. Installing the upgrade tool

The downloaded file is a zip file containing a setup file (XDi_rxxx_vxxxx_setup.exe) and a readme.txt that that makes a reference to this manual in deif.com.

3.1 Prerequisite

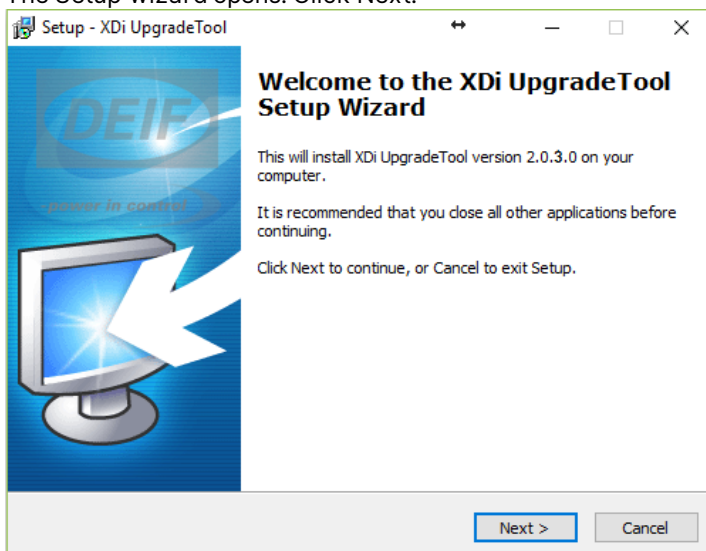


Attention

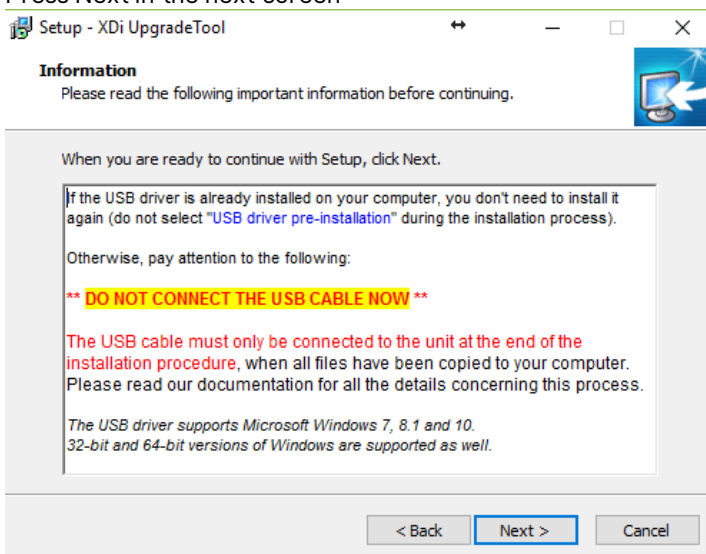
Do not connect the PC to an XDi before completing the installation of the upgrade tool.

3.2 Installation

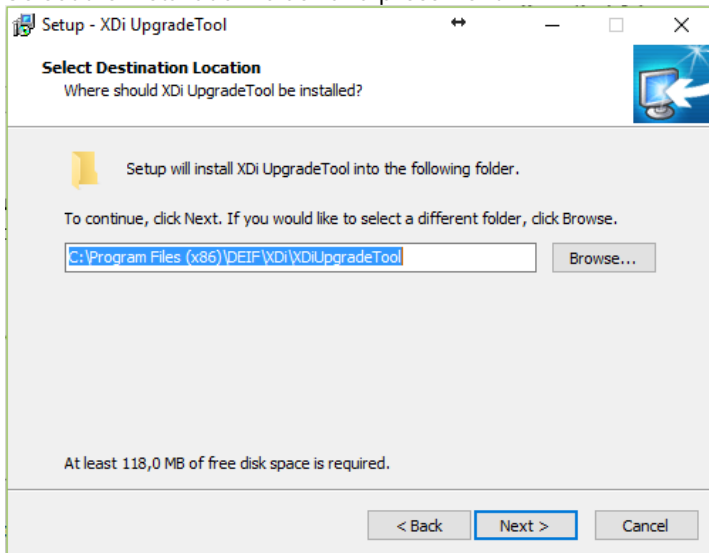
1. Run the setup file (company restrictions for installing SW may apply)
2. The Setup wizard opens. Click Next.



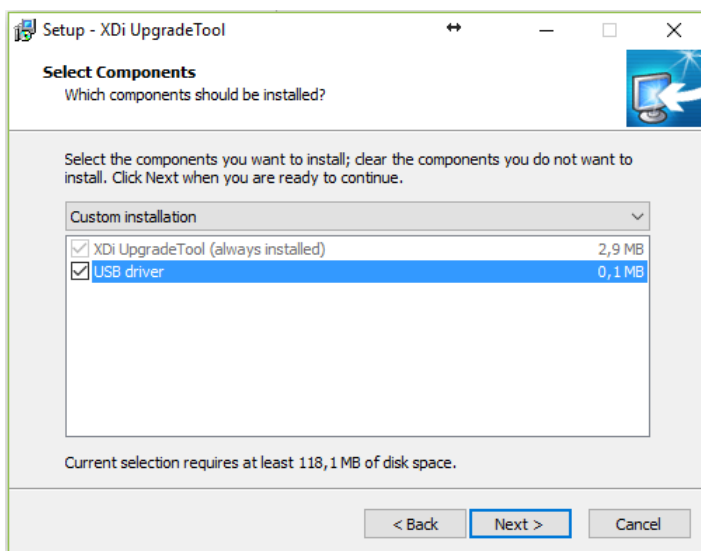
3. Press Next in the next screen



Select the installation folder and press Next



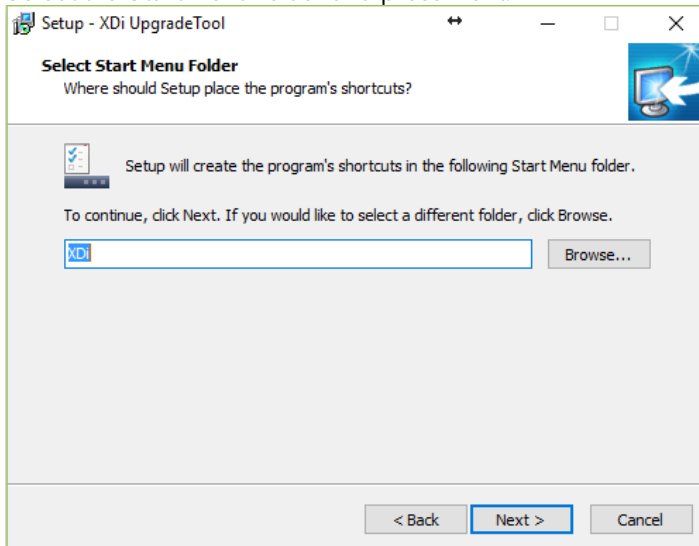
4. Select the USB driver unless you are sure that the DEIF USB driver is already installed on your PC. Press Next:



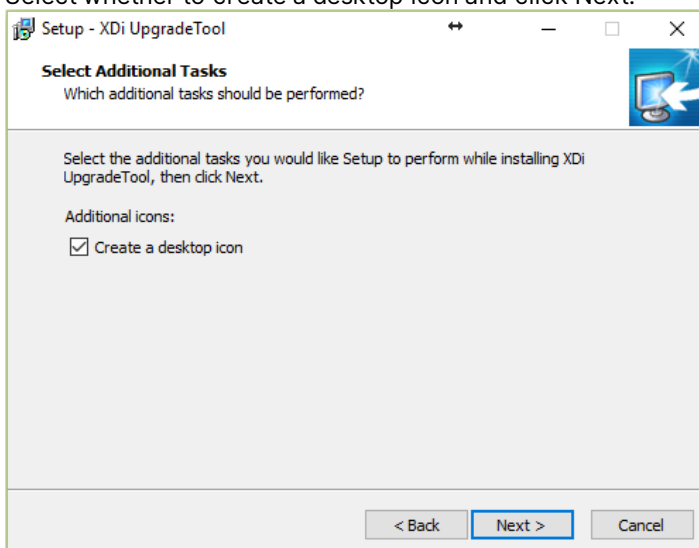
Info

If you have already installed a previous version of this software, the driver is already installed and should not be installed again. See a later step for instructions.

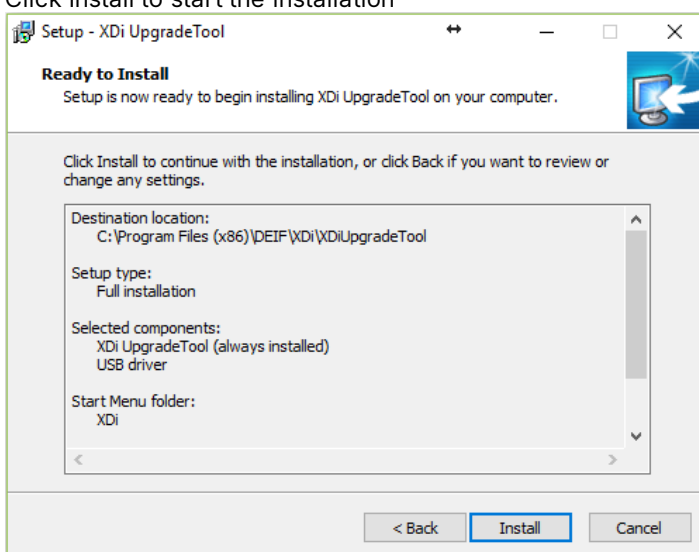
5. Select the Start menu folder and press Next:



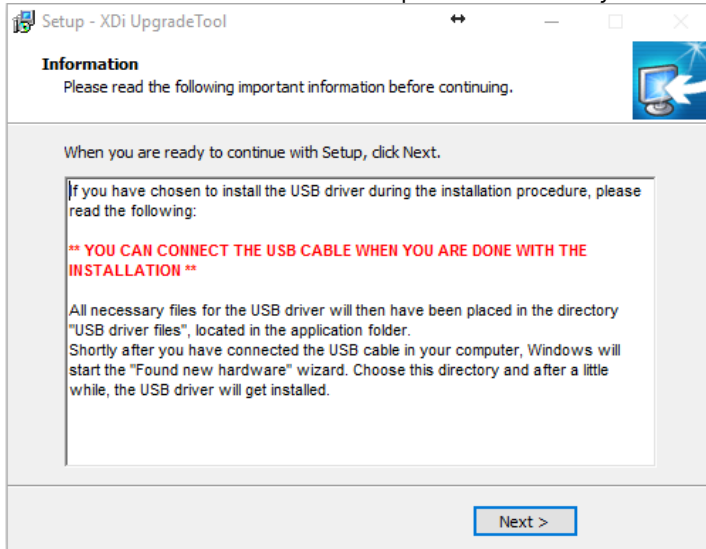
6. Select whether to create a desktop icon and click Next:



7. Click Install to start the installation

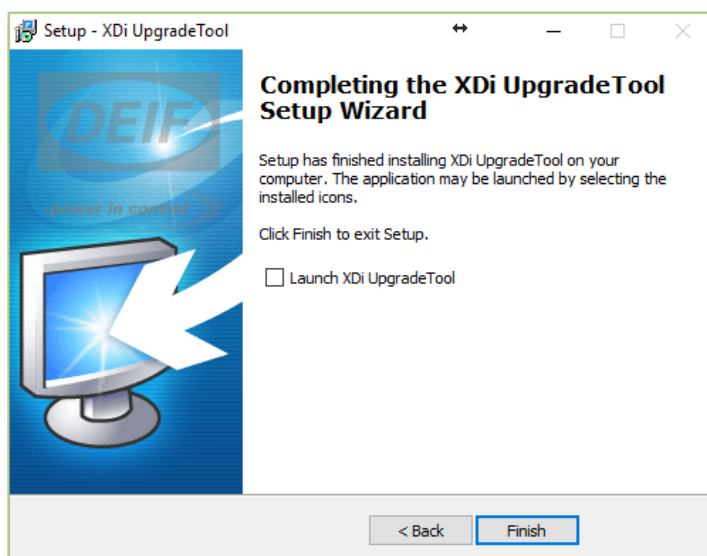


8. The information in this screen is important to read if you are installing the USB driver for the XDi unit. Click Next:



9. Depending on the windows version do one of the following:

- Windows older than 10:** Do not check the "Launch XDi Upgrade Tool" If you are installing the USB driver. Click Finish
- Windows 10 and 11:** Connect the PC to an XDi with a USB cable. The driver update is done automatically without notification (the notification for Win 10 depends on the patch). The procedure described in chapter 3.3 is not needed. Click finish.



When the XDi Upgrade Tool is launched, it will start trying to establish connection with an XDi.

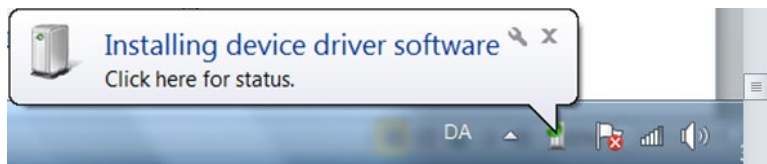
3.3 Installing the XDi USB driver



Info

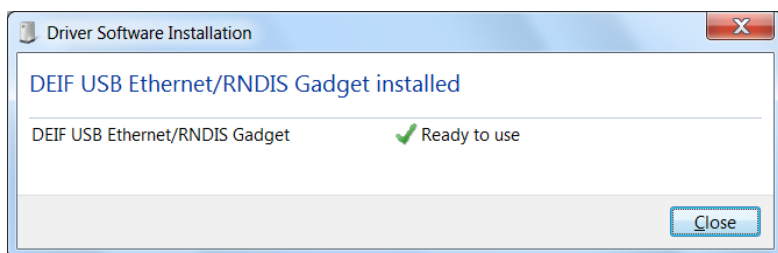
Skip this section if you are not installing the USB driver

Connect the USB cable to the XDi and wait a few seconds for Windows to detect the new USB HW:



NOTE: If the USB driver installation software in windows does not find the XDi driver, please direct it to the location where the XDi Upgrade Tool installation wizard has stored the XDi driver (see previous step).

When the installation is completed the following message is displayed:



The PC is now ready to update the library and/or software of an XDi unit.

4. Updating XDi SW/Library



Attention

If the XDi is connected to a PC at powerup the XDi will not start correctly.
Always power up the XDi before connecting it to a PC.

4.1 Preparing for an update

Use a USB-A to mini-B to connect the XDi to a PC (not supplied with the XDi).



Attention

Making a full update of the XDi unit will erase all selections and setup made prior to the update.

If any adjustments of parameters in the USER or Installation menu have been made, it is recommended to read the changed parameters from the relevant user or installation menu and write them down before updating the unit.

If the NODE ID number is not written on the label behind the front frame of the XDi, you should find it in the surveyor menu and write it down for use when reinstalling the unit.

The XDi must run on its own power supply and not draw power through the USB cable.

Functions in version 2.0.1.0 and higher

From version 2.0.1.0 of the upgrade tool it is possible to upload new Qt-app and/or Application software without having the library re-installed. When this feature is used, the indicator selection, setup and changed parameters are not changed, so it will not be necessary to make a new setup.

The already selected and configured virtual indicator will start up again after the software update.

Please note that if the software update process fails a full re-installation may be necessary and a full setup is required.

4.2 Update the XDi

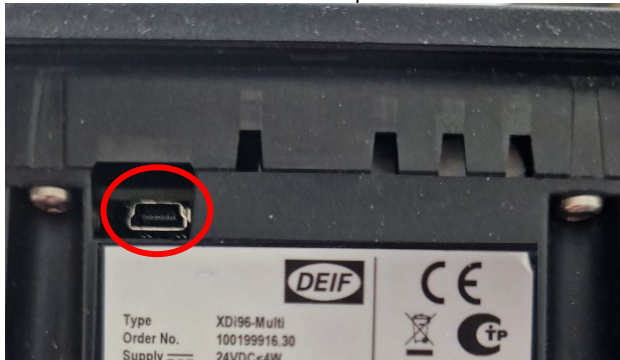
4.2.1 Prerequisite

The XDi must be on and running before you connect the XDi to your PC.

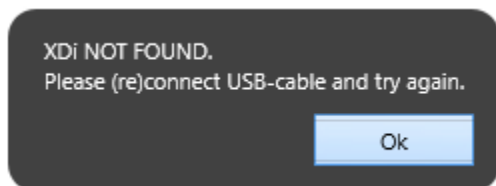
4.2.2 Update the software

1. Power the XDi and wait until it is running in normal operation

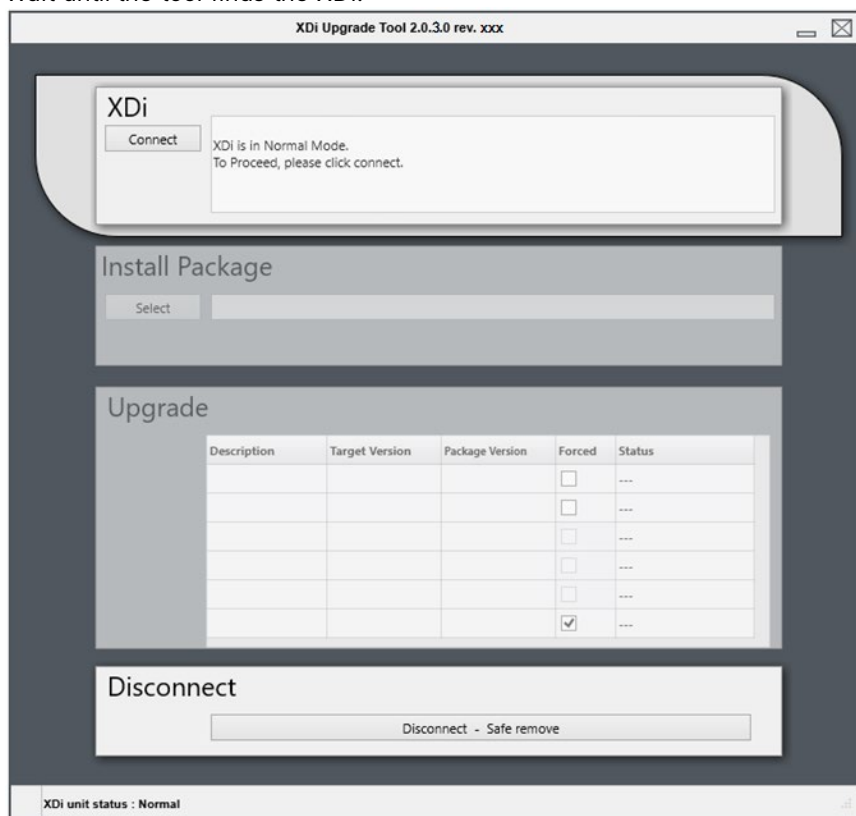
2. Connect the PC to the service port of the XDi with a USB cable



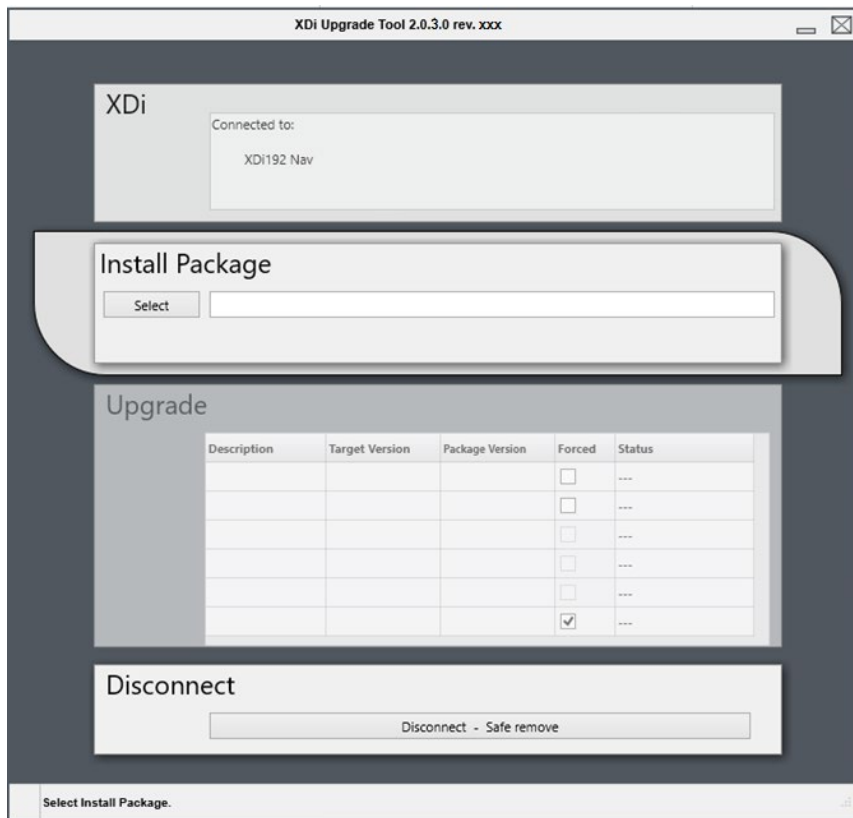
3. Start the XDi Upgrade Tool.
4. If you see this message, make sure you connected the USB cable properly and click on the Connect button:



5. Wait until the tool finds the XDi.

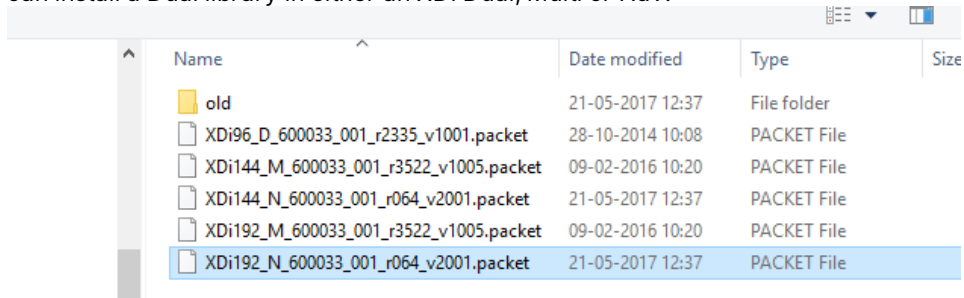


6. When the tool has established connection, it shows the XDi size and performance type. Click on the Select button to navigate to the library:

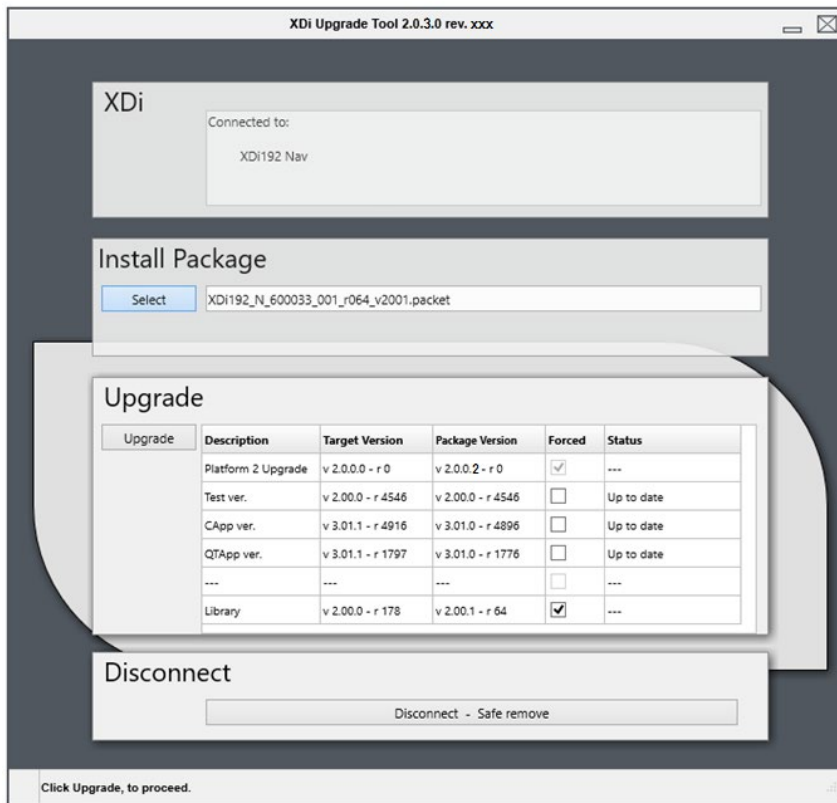


Select a package for the right XDi size and performance class, in this case an XDi192 N (Nav).

It is always possible to install a library package with a lower performance class then the class of the XDi unit. E.g. you can install a Dual library in either an XDi Dual, Multi or Nav.

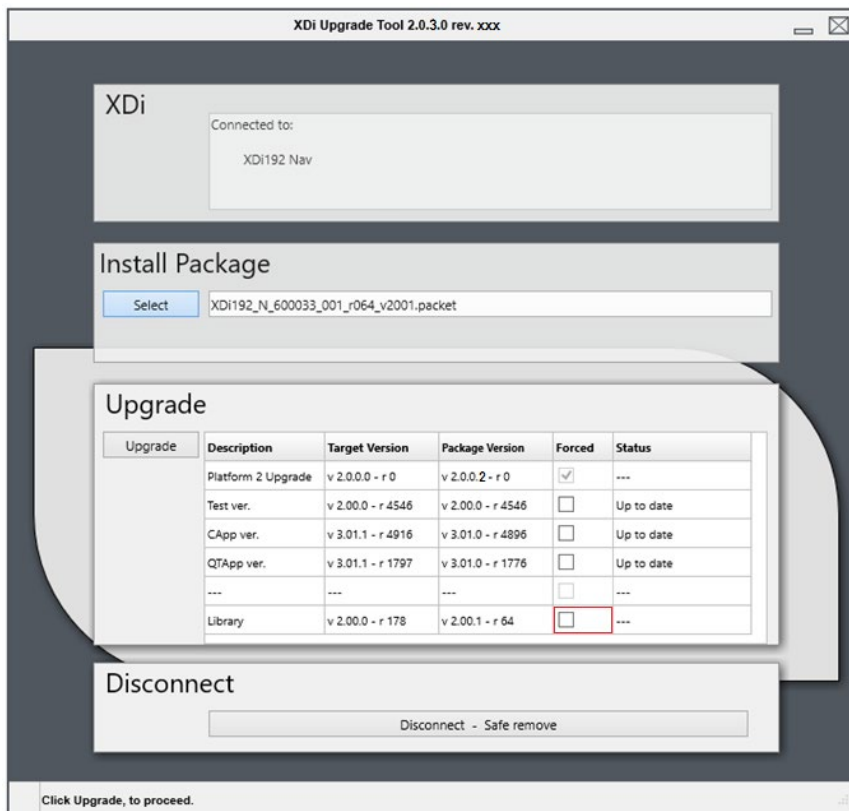


7. Once the package is detected, you will get an overview of the software already installed on the XDi unit (Target version) and the content of the package selected (Package version). The Upgrade button is also shown and is enabled:



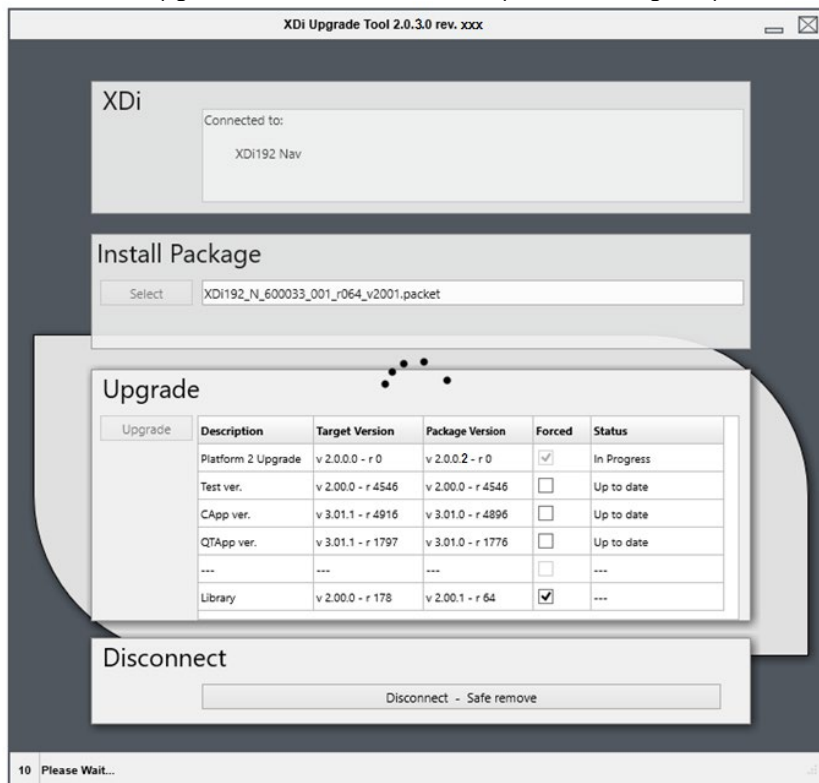
The column status shows if the software on the XDi already contains the software version contained in the selected library package. When the text "Up to date" is shown, the software in the XDi is Ok and will not automatic be updated. If the box Forced is marked the selected software will be updated regardless of the state shown in the column status. If status show --- it means that the software is not up to date or not included.

It is possible to update the Platform software alone (Capp and/or QApp) in an XDi that is already installed and running. This can be done without changing the already made configuration. Simply remove the "Forced" selection tag of the Library update (see red frame in the following screenshot). This means that you do not erase the indicator selection and the user-defined settings in the XDi and do not need to make a setup once more!



NOTE: Any changes made to the library itself will not be installed either.

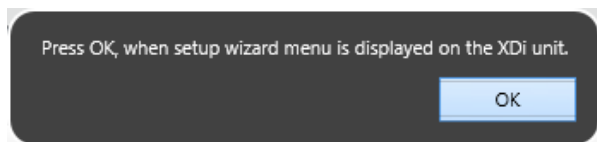
8. Click on the Upgrade button. The status is updated during the process:



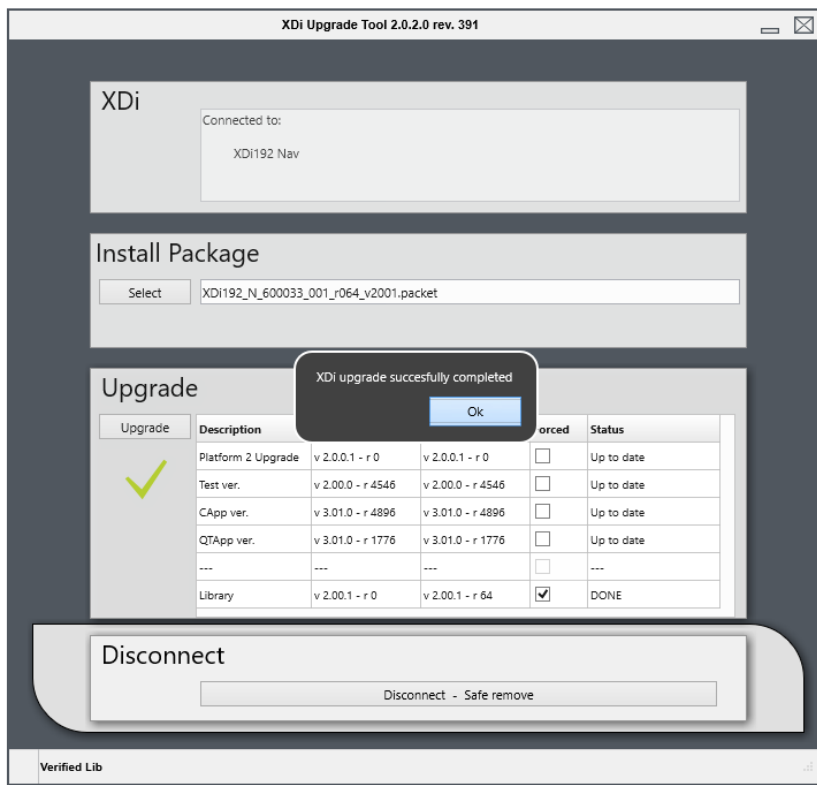
It can take up to 10 min. to make a full software upgrade including platform upgrade. The XDi may restart several times during the update depending on the scope of the update.

DO NOT disconnect the 24V power to the XDi during the upgrade procedure that will damage the unit.

9. When the installation is completed the tool displays the following message. Press OK to continue:



10. Press the OK and the Disconnect buttons:



11. Disconnect the USB cable. The XDi is now updated.

If the library was updated (Forced selected): XDi is setup as if it has just left the factory (Factory reset) and the XDi Start-up Wizard is running and ready to help you setup the XDi.

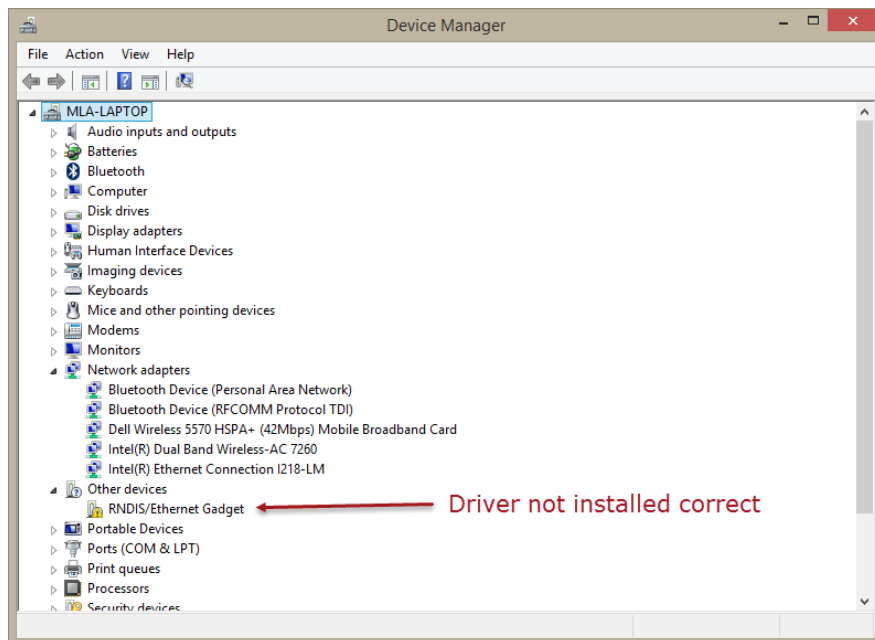
If the library was not updated (Forced not selected): The new Platform, QT and/or Application software will start and the previously selected: Product profile (PP), Virtual indicator (VI), Virtual indicator setup (VS) and any changes made via menu will still be present and the XDi will present the indicator and run normally.

5. Troubleshooting

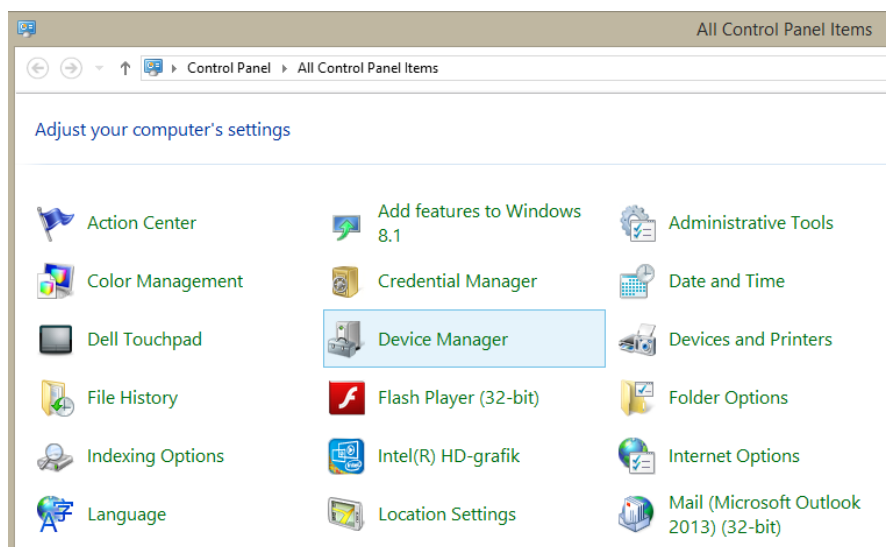
5.1 USB driver was not installed correctly in Windows 8

If the USB driver for XDi Upgrade Tool is not installed correct on Windows 8 the following instructions should be followed to complete the installation for the USB driver.

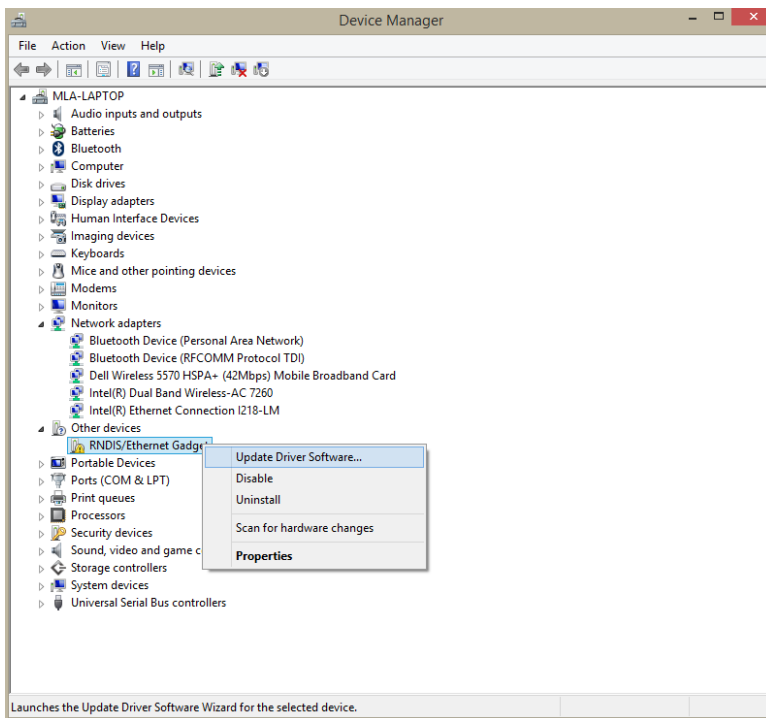
If the driver in the device manager is seen under Other devices or Network adapters the installation is not correct:



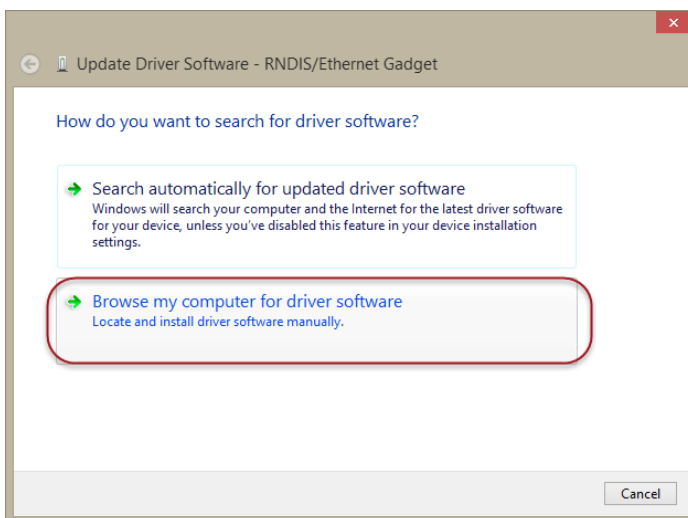
1. Open device manager from the control panel:



2. Right click RNDIS/Ethernet Gadget – select **Update Driver software**

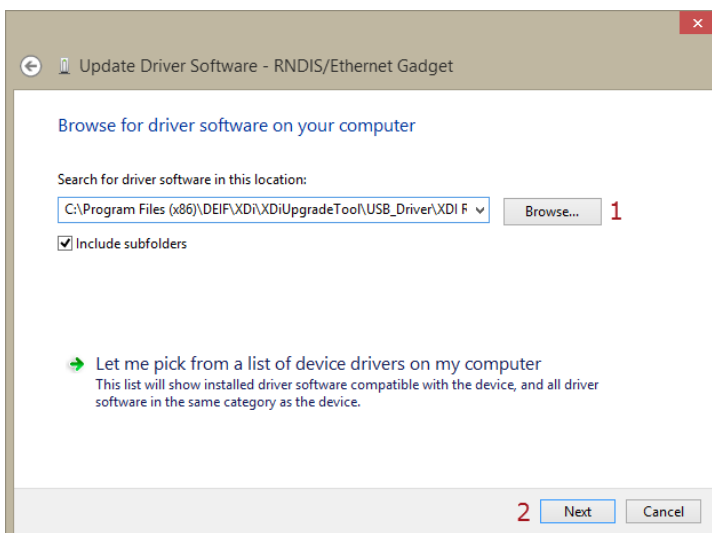


3. Select - **Browse my computer....**

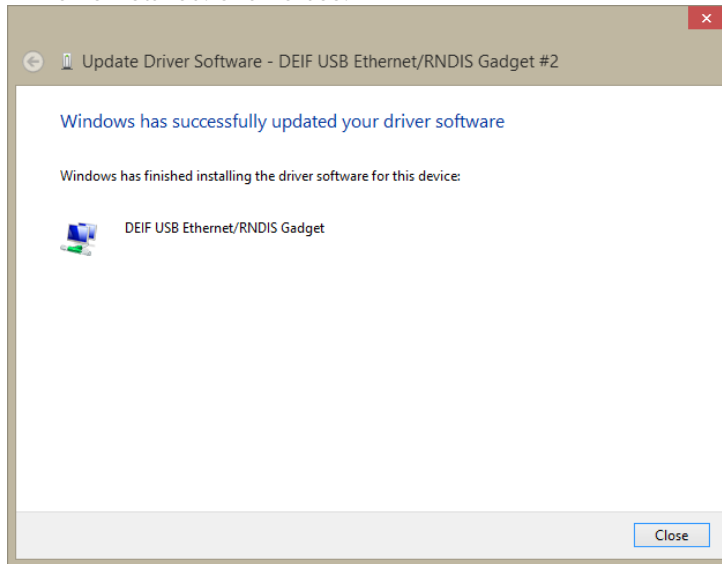


4. Browse for the folder:

C:\Program Files (x86)\DEIF\XDi\XDiUpgradeTool\USB_Driver\XDI RNDIS and click Next

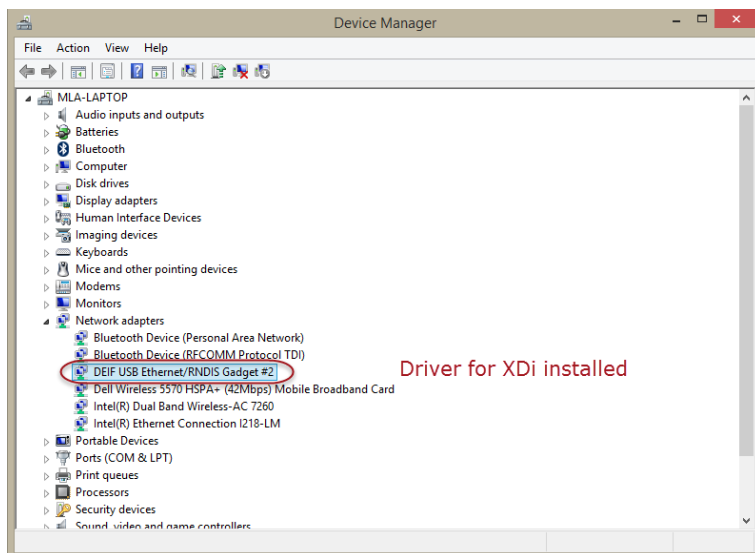


5. Driver is installed. Click Close.



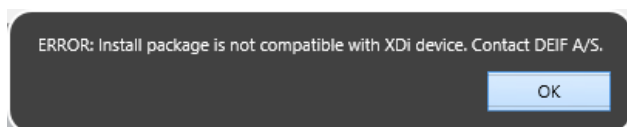
NOTE: If the XDi Upgrade Tool is open it requires a restart. USB connection also needs to be reconnected.

6. The driver RNDIS is now installed correct which is shown in the device manager



5.2 Software packet can't be installed

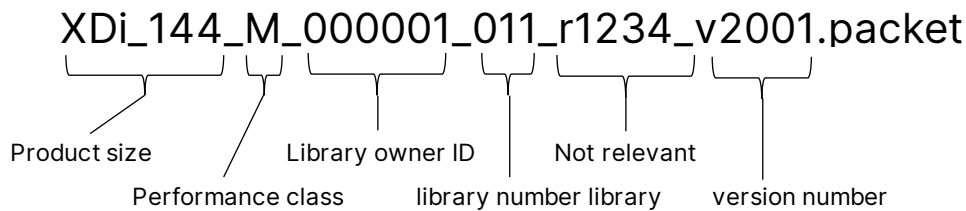
The following error messages is shown when selecting a package:



Reasons: The selected library packet that is downloaded is not the correct type. This can be from 2 reasons:

1. The selected library packet is not compatible with the actual XDi, for example a library for XDi 96 when the connected XDi is XDi 144
2. The performance class of the software library and XDi do not match. The XDi unit must have equal or higher performance class than the library packet:
 - a. XDi D can only use Dual Library
 - b. XDi M can only use Dual or Multi Library
 - c. XDi N can use Dual, Multi or N Library

The XDi libraries are identified by a unique name, for example:



See XDi-Standard virtual indicator library manual on [XDi \(deif.com\)](http://XDi.deif.com) for more information about libraries.

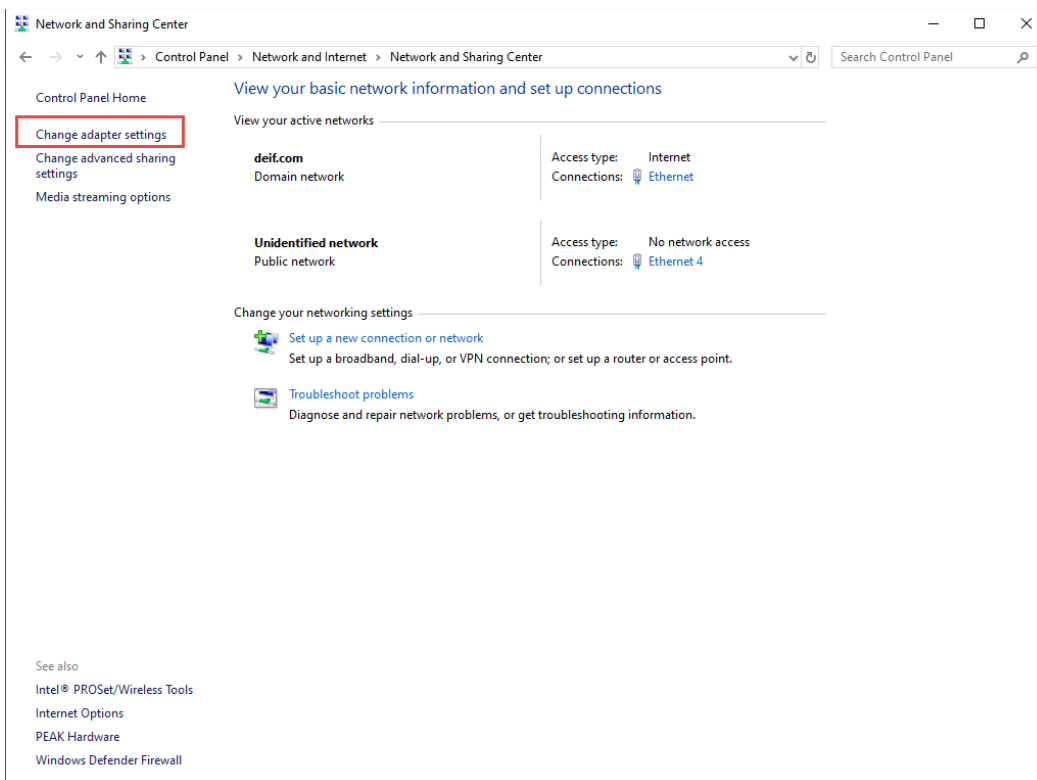
5.3 The Upgrade Tool cannot find the XDi

If the XDi Upgrade Tool cannot find the XDi even though it is connected, it is most likely due to the network adapter in the PC.

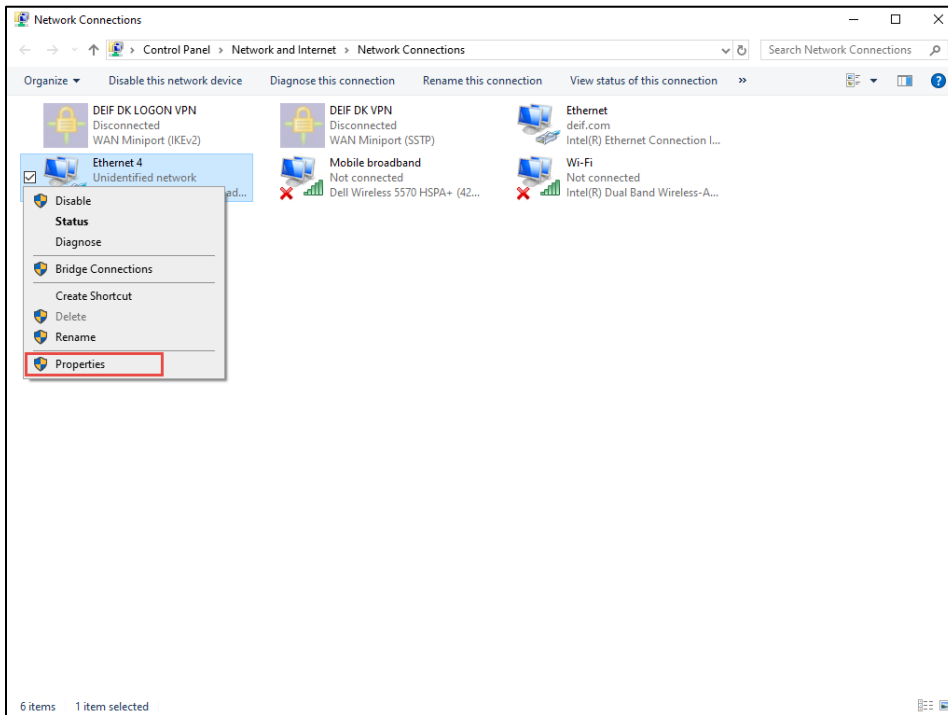
It's sometimes necessary to assign an IP address to the XDi network adapter, if windows can't locate the IP address of the XDi unit. The XDi has the fixed IP address 169.254.128.128. Therefore the XDi network connection must be given an IP address within the same subnet.

In the in the following example the IP address 169.254.128.120 is given to the XDi network connection.

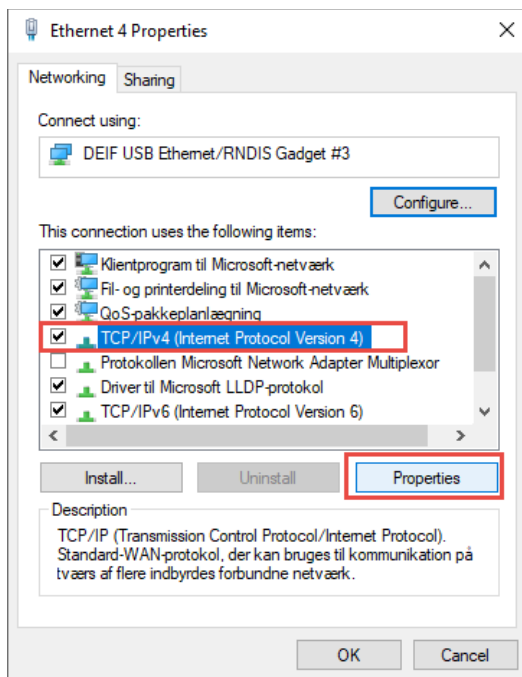
1. Open the control panel and select and find the "Network and Sharing Center". Select "Change adapter settings":



2. Right-click on the icon for “Properties for DEIF USB Ethernet/RNDIS Gadget” and select properties:



3. Select TCP/IPv4 and press properties:



4. Select "Use the following IP address" and enter the IP address and subnet mask as shown below. Click OK:

TCP/IPv4 (Internet Protocol Version 4) Properties ✕

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☐ Obtain an IP address automatically

☒ Use the following IP address:

IP address: 169 . 254 . 128 . 120

Subnet mask: 255 . 255 . 0 . 0

Default gateway: . . .

☐ Obtain DNS server address automatically

☒ Use the following DNS server addresses:

Preferred DNS server: . . .

Alternate DNS server: . . .

☐ Validate settings upon exit

Advanced...

OK Cancel

5. With these settings the XDi Upgrade Tool now should be able to find the XDi so an update can be selected.