



User Manual
Software Installation comX and netJACK

Installing Drivers and Configuration Software

Hilscher Gesellschaft für Systemautomation mbH

www.hilscher.com

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1 Introduction

1.1 About the User Manual

This user manual provides step-by-step instructions on how to install the drivers and the software needed on a host system or configuration PC running under a Windows® operating system to configure and diagnose Hilscher **comX** and **netJACK** communication modules or to update the firmware of the modules.

This manual describes the installation of:

- the **cifX Device Driver**
- the **SYCON.net** configuration software
- the **netX Configuration Tool** (configuration tool for slave devices only)
- the **USB Drivers**

for the operating systems:

- **Windows XP**
- **Windows 7**
- **Windows 8**



Note: Instructions for installation under **Windows 7** are also applicable for installation under **Windows VISTA**.

The drivers and the configuration software are provided on the Communication Solutions DVD.

1.1.1 List of Revisions

Index	Date	Chapter	Revision
1	2013-10-16	all	created

Table 1: List of Revisions

1.1.2 Conventions in this Document

Notes, operation instructions and results of operation steps are marked as follows:

Notes



Important: <important note>



Note: <note>



<note, where to find further information>

Operation Instructions

1. <instruction>

2. <instruction>

or

➤ <instruction>

Results

🔍 <result>

1.1.3 Reference on Driver and Software Versions

This user manual refers to the following driver and software versions:

Name	Version	File name	Path on Communication Solution DVD
SYCON.net	1.360.x.x	SYCONnet netX setup.exe	Software\SYCON.net
netX Configuration Tool	1.0510.x.x	netXConfigurationUtility_Setup.exe	Software\Slave Configuration Tool
cifX Device Driver	1.2.x.x	cifX Device Driver Setup.exe	Driver and Toolkit\Device Driver (NXDRV-WIN)\Installation
USB drivers	-	setup.exe	Driver and Toolkit\USB Driver

Table 2: Reference on Drivers and Software

1.2 Legal Notes

1.2.1 Copyright

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The user manual, accompanying texts and the documentation were created for the use of the products by qualified experts, however, errors cannot be ruled out. For this reason, no guarantee can be made and neither juristic responsibility for erroneous information nor any liability can be assumed. Descriptions, accompanying texts and documentation included in the user manual do not present a guarantee nor any information about proper use as stipulated in the contract or a warranted feature. It cannot be ruled out that the user manual, the accompanying texts and the documentation do not correspond exactly to the described features, standards or other data of the delivered product. No warranty or guarantee regarding the correctness or accuracy of the information is assumed.

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Hilscher Gesellschaft für Systemautomation mbH is not liable under any circumstances for direct, indirect, incidental or follow-on damage or loss of earnings resulting from the use of the information contained in this publication.

1.2.3 Exclusion of Liability

The software was produced and tested with utmost care by Hilscher Gesellschaft für Systemautomation mbH and is made available as is. No warranty can be assumed for the performance and flawlessness of the software for all usage conditions and cases and for the results produced when utilized by the user. Liability for any damages that may result from the use of the hardware or software or related documents, is limited to cases of intent or grossly negligent violation of significant contractual obligations. Indemnity claims for the violation of significant contractual obligations are limited to damages that are foreseeable and typical for this type of contract.

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- for military purposes or in weapon systems;
- for the design, construction, maintenance or operation of nuclear facilities;
- in air traffic control systems, air traffic or air traffic communication systems;
- in life support systems;
- in systems in which failures in the software could lead to personal injury or injuries leading to death.

We inform you that the software was not developed for use in dangerous environments requiring fail-proof control mechanisms. Use of the software in such an environment occurs at your own risk. No liability is assumed for damages or losses due to unauthorized use.

1.2.4 Warranty

Although the hardware and software was developed with utmost care and tested intensively, Hilscher Gesellschaft für Systemautomation mbH does not guarantee its suitability for any purpose not confirmed in writing. It cannot be guaranteed that the hardware and software will meet your requirements, that the use of the software operates without interruption and that the software is free of errors. No guarantee is made regarding infringements, violations of patents, rights of ownership or the freedom from interference by third parties. No additional guarantees or assurances are made regarding marketability, freedom of defect of title, integration or usability for certain purposes unless they are required in accordance with the law and cannot be limited. Warranty claims are limited to the right to claim rectification.

1.2.5 Export Regulations

The delivered product (including the technical data) is subject to export or import laws as well as the associated regulations of different countries, in particular those of Germany and the USA. The software may not be exported to countries where this is prohibited by the United States Export Administration Act and its additional provisions. You are obligated to comply with the regulations at your personal responsibility. We wish to inform you that you may require permission from state authorities to export, re-export or import the product.

1.2.6 Registered Trademarks

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2 cifX Device Driver

2.1 Overview

If the host system of your communication module runs under a Windows operating system or if you want to connect your module via PCI Carrier Board (comX) or via Evaluation Board (netJACK) to a Windows PC for configuration, diagnosis or firmware download with SYCON.net or netX Configuration Tool, you need to install the cifX Device Driver.

The cifX Device Driver is delivered on the Communication Solutions DVD. You can start an installation program for the driver (the **cifX Device Driver Setup**) in the menu of the start screen of the DVD. Instructions for this are provided on the following pages. You can also start the installation program by double-clicking the *cifX Device Driver Setup.exe* file in the `Driver` and `Toolkit\Device Driver (NXDRV-WIN)\Installation` directory of the Communication Solutions DVD.

The installation program contains all components needed for the installation of the driver under Windows XP, Windows Vista, Windows 7 and Windows 8. It detects whether the 32 bit or the 64 bit driver needs to be installed.

Please note the following:

- You need administrator rights for installing or uninstalling the cifX Device Driver on your operating system.
- Always use the installation program, if possible, to install the cifX Device Driver, as described on the following pages.
- If an older version of the cifX Device Driver is installed on your system, uninstall it first before you install the new version.
- Install the cifX Device Driver *before* you connect your communication module to your host system or PC ("software first" principle).
- After installing the cifX Device Driver and connecting your communication module, check in the Device Manager of Windows if the driver has been correctly installed and if Windows recognizes the connected communication module.

2.2 Installing cifX Device Driver

2.2.1 Installing cifX Device Driver under Windows XP

2.2.1.1 Installing cifX Device Driver by Installation Program

1. Start the cifX Device Driver installation program.
 - Insert the Communication Solutions DVD into your local DVD-ROM drive.
 - The start screen of the Communication Solutions DVD is displayed:

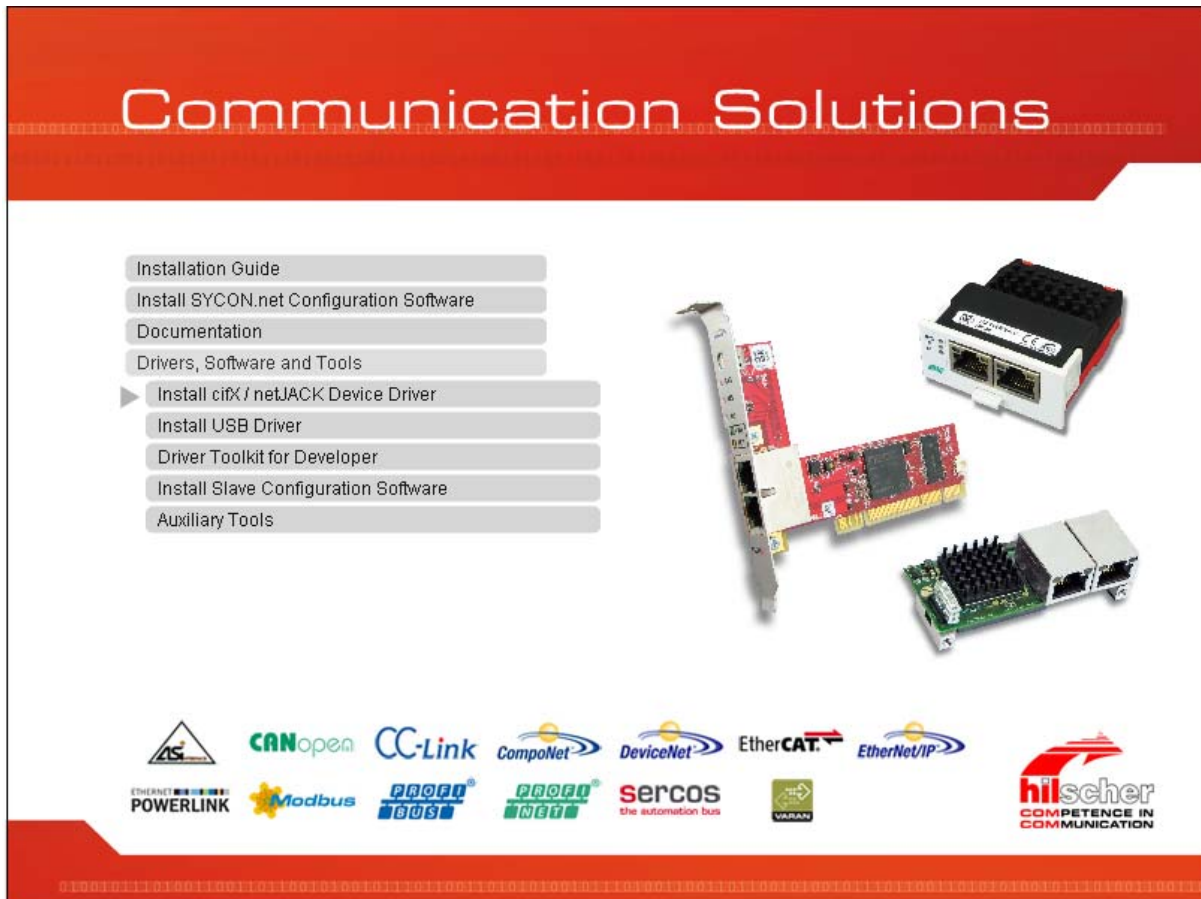


Figure 1: Start Screen Communication Solutions – Installing cifX Device Driver

- In the menu, select **Drivers, Software and Tools > Install cifX/netJACK Device Driver**.



Note: Alternatively, you can also start the installation program by double-clicking the *cifX Device Driver Setup.exe* file in the Driver and Toolkit\Device Driver (NXDRV-WIN)\Installation folder on the Communication Solutions DVD.

- The **cifX Device Driver Setup** is started and the **License Agreement** window opens:



Figure 2: cifX Device Driver Setup – License Agreement

2. Start installation.

- Select **I accept the terms in the license agreement**.
- Click **Install**.
- The cifX Device Driver installation is started:

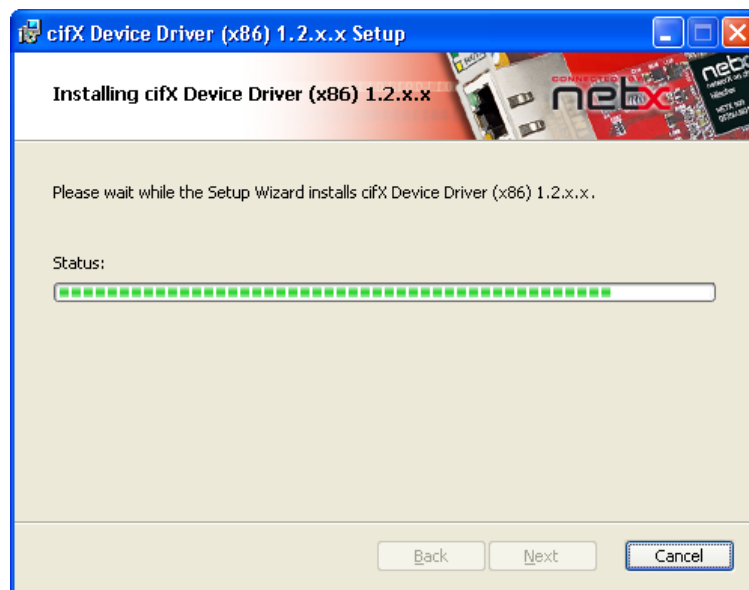


Figure 3: Installing cifX Device Driver

- After installation, the **Completed the cifX Device Driver Setup Wizard** window appears:



Figure 4: cifX Device Driver – Installation Completed

- Click **Finish**.



Note: Under Windows XP, the driver installation process is not yet finished after having executed the **cifX Device Driver Setup Wizard**. The installation process has to be completed in the **Found New Hardware Wizard**, which automatically opens when you reboot Windows XP after having installed the communication module in your host system, respectively after having connected the module to your PC via PCI Carrier Board (comX) or via Evaluation Board (netJACK) to your Windows PC for the first time.

3. Install communication module in host system/PC.



Important: When installing the hardware, observe all safety messages in the user manual.

- Shut down Windows XP and disconnect your host system or PC from the voltage supply.
- Install the communication module in your host system, respectively connect the communication module to your PC according to the instructions provided in the user manual.



See user manual

- *comX – Communication Modules for Real-Time-Ethernet and Fieldbus*, DOC100903UMxxEN

or

- *netJACK Communication Module – Installation, Operation and Hardware Description*, DOC110504UMxxEN

4. Complete the installation in the **Found New Hardware Wizard**.

- Restart your host system/PC.
- The **Found New Hardware Wizard** starts:



Figure 5: Found New Hardware Wizard – cifX Device Driver (1)

- Answer the question **Can Windows connect to Windows Update...?**, by selecting the **No, not this time** option.
- Click **Next**.
- The window with the installation options appears:

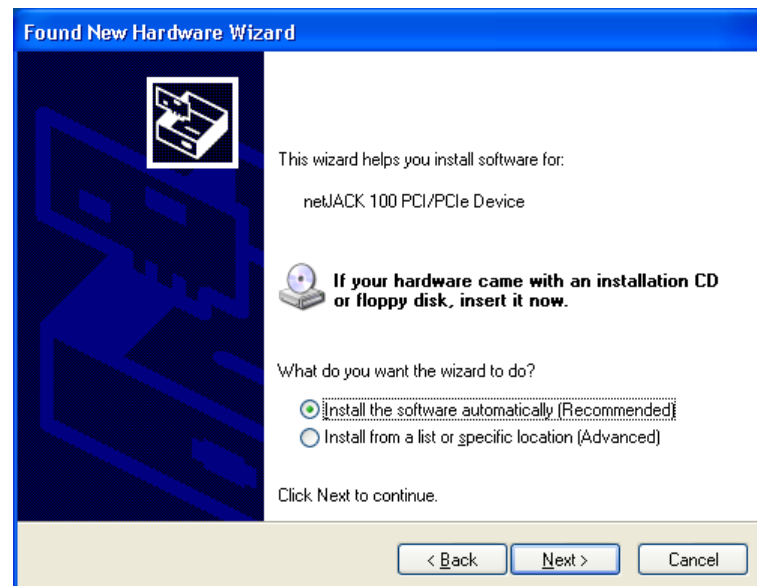


Figure 6: Found New Hardware Wizard – cifX Device Driver (2)

- If you have already executed the installation program for the cifX Device Driver (as recommended), you can ignore the wizard's request to insert a CD or floppy disk. Answer the **What do you want the wizard to do?** question by selecting the **Install the software automatically** option.

- Click **Next**.
- Windows copies the driver files to the Windows directories.

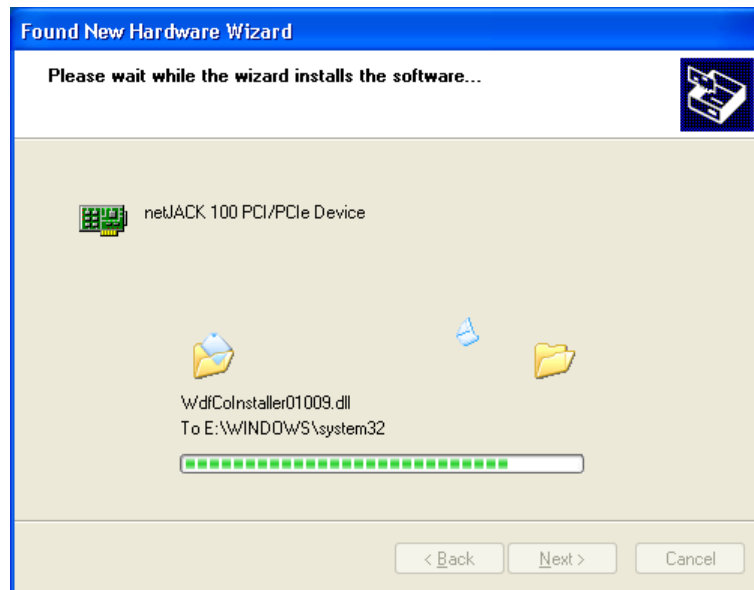


Figure 7: Found New Hardware Wizard – cifX Device Driver (3)

- The **Completing the Found New Hardware Wizard** window appears:



Figure 8: Found New Hardware Wizard – cifX Device Driver (4)

- Click **Finish**.
- The installation of the cifX Device Driver is now complete.

2.2.1.2 Checking Installation

After having installed the cifX Device Driver and having installed/connected the communication module, you should check in the Windows **Device Manager** if the driver has been correctly installed and if Windows recognizes the communication module.

1. Open the **Device Manager**.

➤ In the **Start** menu of Windows, select **Control Panel**.

➤ The **Control Panel** opens:

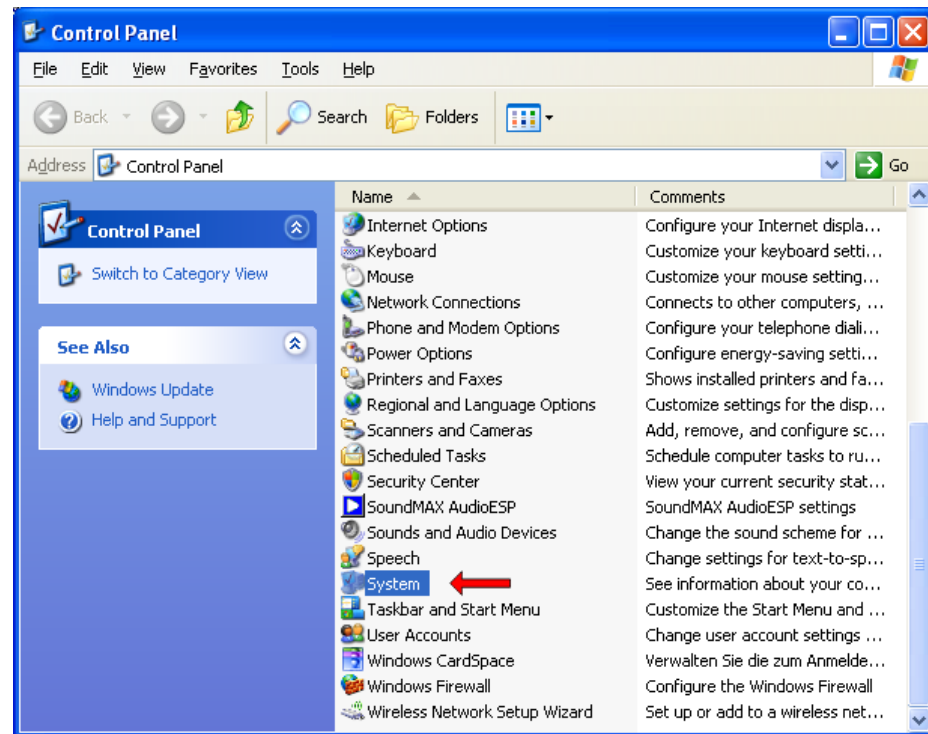


Figure 9: Control Panel

➤ In the **Control Panel**, double-click **System**.

➤ The **System Properties** sheet opens:

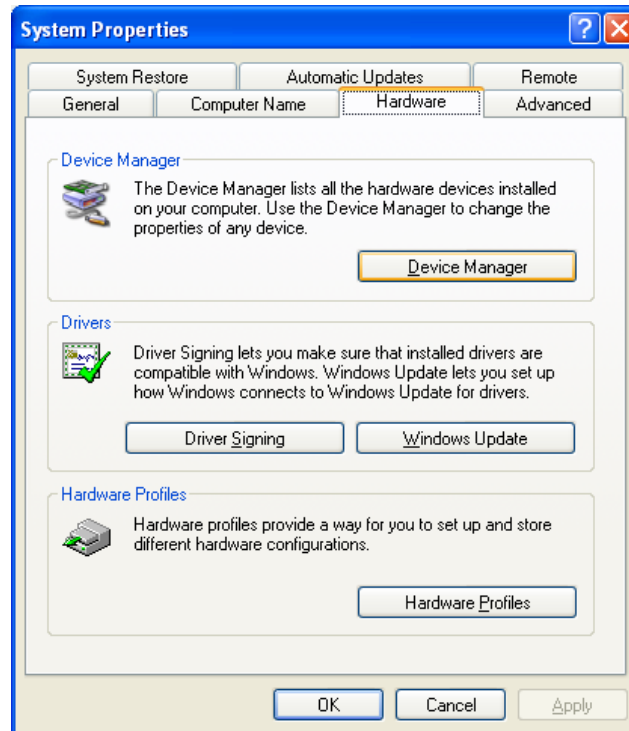


Figure 10: System Properties

- In the **System Properties** sheet, select **Hardware** tab.
- In the **Hardware** tab, click **Device Manager**.
- The **Device Manager** starts:

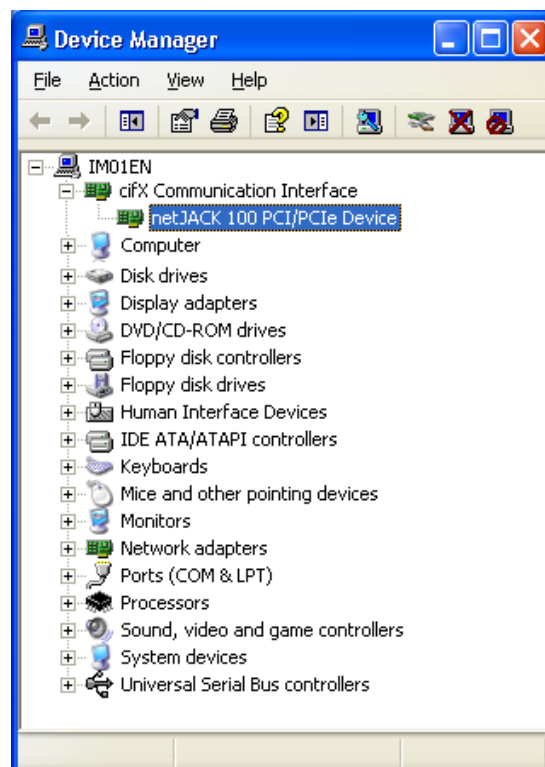


Figure 11: Display of Communication Module in Device Manager

2. Check if the communication module is recognized.
 - In the Device Manager, click on the plus symbol in front of the **cifX Communication Interface** entry.
 - ⇒ A netJACK NJ 100EN-RE communication module for instance, which is connected via NJEB-E Evaluation Board to the PCI Express interface of the PC, will be displayed as **netJACK 100 PCI/PCIe Device**.

2.2.2 Installing cifX Device Driver under Windows 7

2.2.2.1 Installing cifX Device Driver by Installation Program

1. Start the cifX Device Driver installation program.
 - Insert the Communication Solutions DVD into your local DVD-ROM drive.
 - The start screen of the Communication Solutions DVD is displayed:

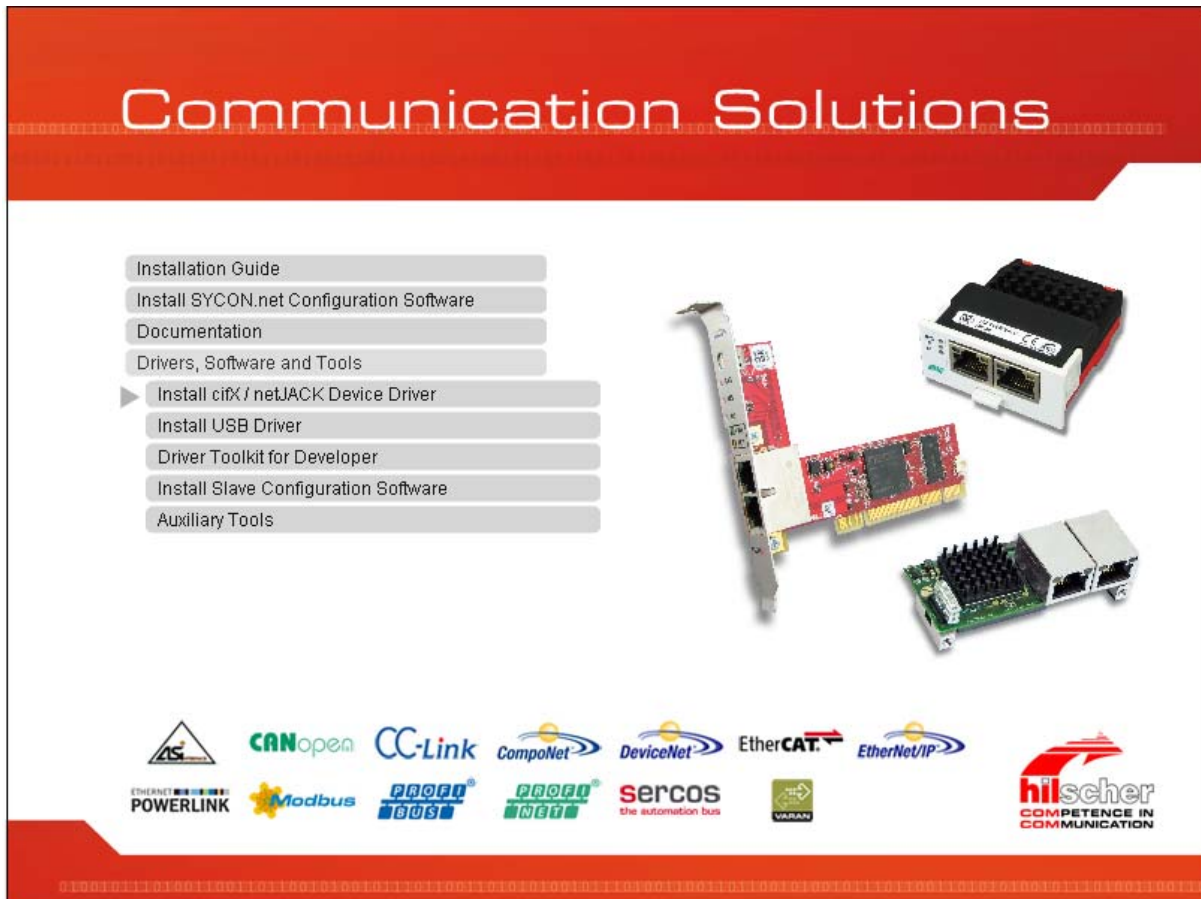


Figure 12: Start Screen Communication Solutions – Installing cifX Device Driver

- In the menu, select **Drivers, Software and Tools > Install cifX/netJACK Device Driver**.



Note: Alternatively, you can also start the installation program by double-clicking the *cifX Device Driver Setup.exe* file in the *Driver* and *Toolkit\Device Driver (NXDRV-WIN)\Installation* folder on the Communication Solutions DVD.

You can reduce the number of Windows security questions by right-clicking on the *cifX Device Driver Setup.exe* file and choosing **Run as administrator** from the context menu.

- The **cifX Device Driver Setup** is started and the **License Agreement** window opens:



Figure 13: cifX Device Driver Setup – License Agreement

2. Start installation.

- Select **I accept the terms in the license agreement**.
- Click **Install**.
- The cifX Device Driver is started:

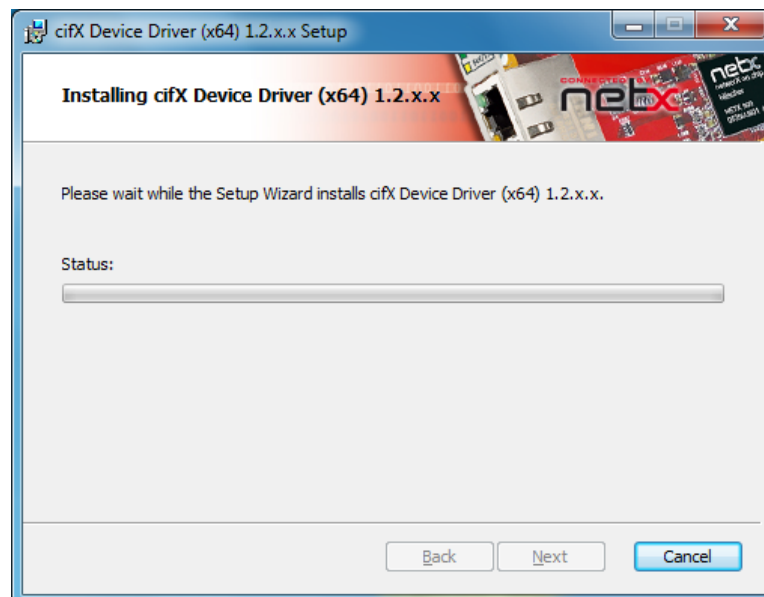


Figure 14: Installing cifX Device Driver

- After installation, the **Completed the cifX Device Driver Setup Wizard** window appears:



Figure 15: cifX Device Driver – Installation Completed

- Click **Finish**.

- You can now proceed to connect your communication module to the host system/PC.



Note: Under Windows 7, the driver installation process is practically finished after having executed the installation program.

When you reboot Windows 7 after having installed the communication module hardware in your host system, respectively after having connected the module to your PC via PCI Carrier Board (comX) or via Evaluation Board (netJACK) for the first time, the **Installing device driver software** message appears in the Windows task bar. Windows then copies the driver files to the appropriate Windows directories. This is an automated process, you do not need to take any action in this. Finally, the **Device driver software installed successfully** message appears in the task bar.

3. Install communication module in host system/PC.



Important: When installing the hardware, observe all safety messages in the user manual.

- Shut down Windows 7 and disconnect your host system or PC from the voltage supply.
- Install the communication module in your host system, respectively connect the communication module to your PC according to the instructions provided in the user manual.



See user manual

- *comX – Communication Modules for Real-Time-Ethernet and Fieldbus*, DOC100903UMxxEN, respectively
- *netJACK Communication Module – Installation, Operation and Hardware Description*, DOC110504UMxxEN

2.2.2.2 Checking Installation

After having installed the cifX Device Driver and having installed/connected the communication module, you should check in the Windows **Device Manager** if the driver has been correctly installed and if Windows recognizes the communication module.

1. Open the **Device Manager**.

➤ In the **Start** menu of Windows, select **Control Panel**.

➤ The **Control Panel** opens:

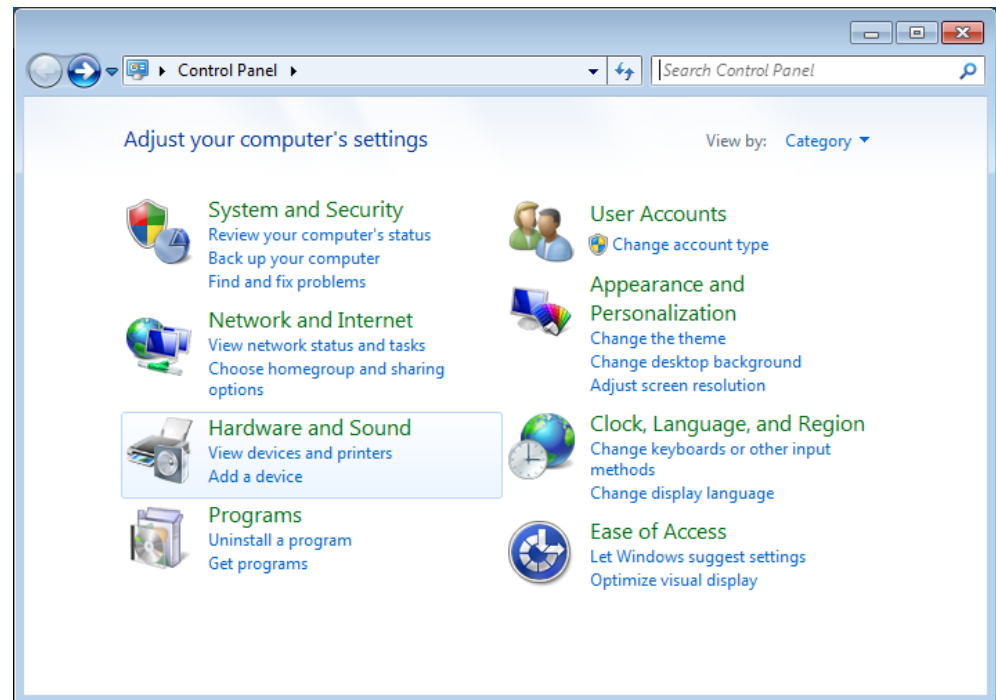


Figure 16: Adjust Your Computer's Settings Window

➤ In the **Control Panel**, click **Hardware and Sound**.

➤ The **Hardware and Sound** window opens:

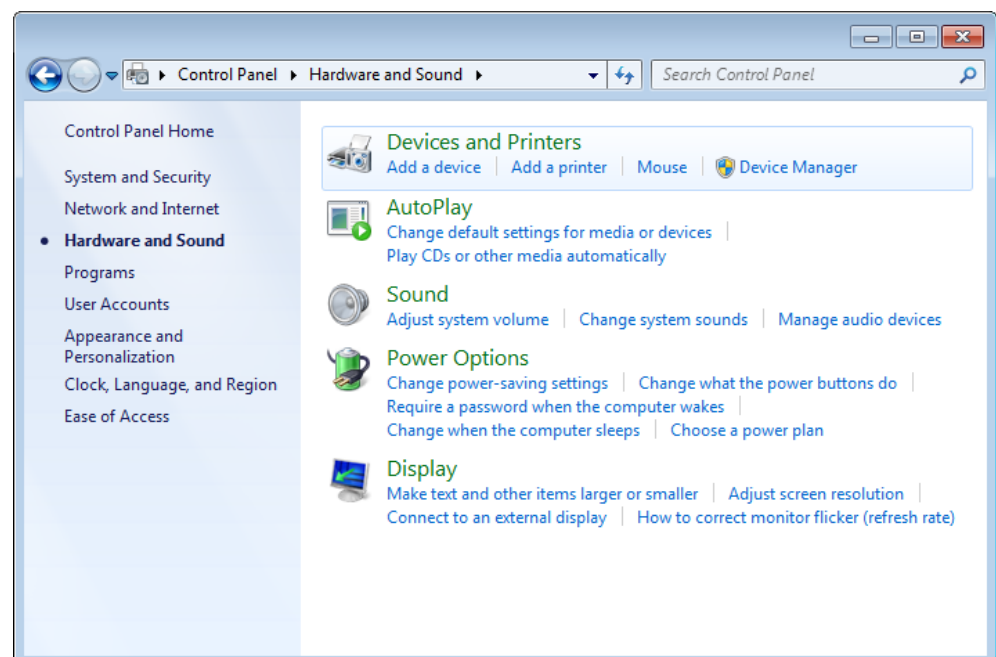
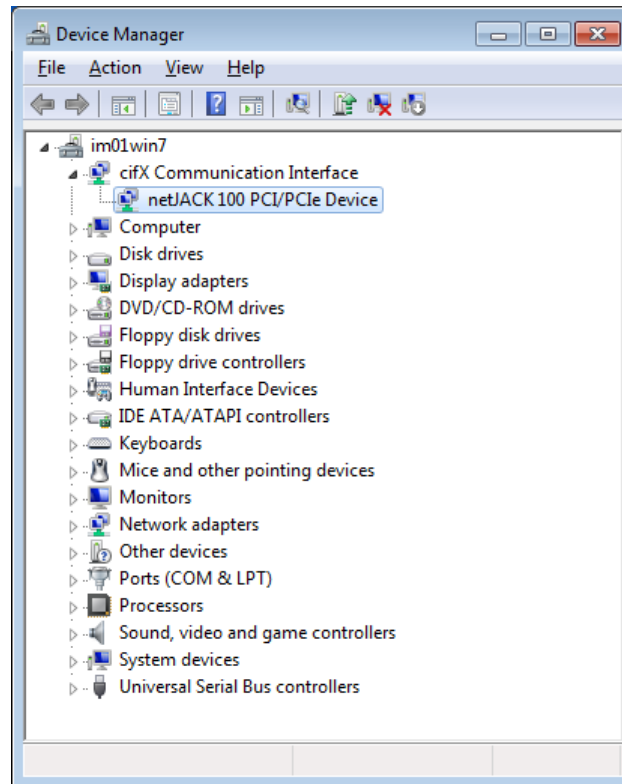


Figure 17: Hardware and Sound Window

- In the **Devices and Printers** group of the **Hardware and Sound** window, click **Device Manager**.
- The **Device Manager** starts:

*Figure 18: Display of Communication Module in Device Manager*

2. Check if the communication module is recognized.
 - In the Device Manager, click on the triangle in front of the **cifX Communication Interface** entry.
 - A netJACK NJ 100EN-RE communication module for instance, which is connected via NJEB-E Evaluation Board to the PCI Express interface of the PC, will be displayed as **netJACK 100 PCI/PCIe Device**.

2.2.3 Installing cifX Device Driver under Windows 8

2.2.3.1 Installing cifX Device Driver by Installation Program

1. Start the cifX Device Driver installation program.
 - Insert the Communication Solutions DVD into your local DVD-ROM drive.
 - The start screen of the Communication Solutions DVD is displayed:



Figure 19: Start Screen Communication Solutions – Installing cifX Device Driver

- In the menu, select **Drivers, Software and Tools > Install cifX/netJACK Device Driver**.



Note: Alternatively, you can also start the installation program by double-clicking the *cifX Device Driver Setup.exe* file in the **Driver** and **Toolkit\Device Driver (NXDRV-WIN)\Installation** folder on the Communication Solutions DVD.

You can reduce the number of Windows security questions by right-clicking on the *cifX Device Driver Setup.exe* file and choosing **Run as administrator** from the context menu.

- The **cifX Device Driver Setup** is started and the **License Agreement** window opens:



Figure 20: cifX Device Driver Setup – License Agreement

2. Start installation.

- Select **I accept the terms in the license agreement**.
- Click **Install**.
- The cifX Device Driver installation is started:

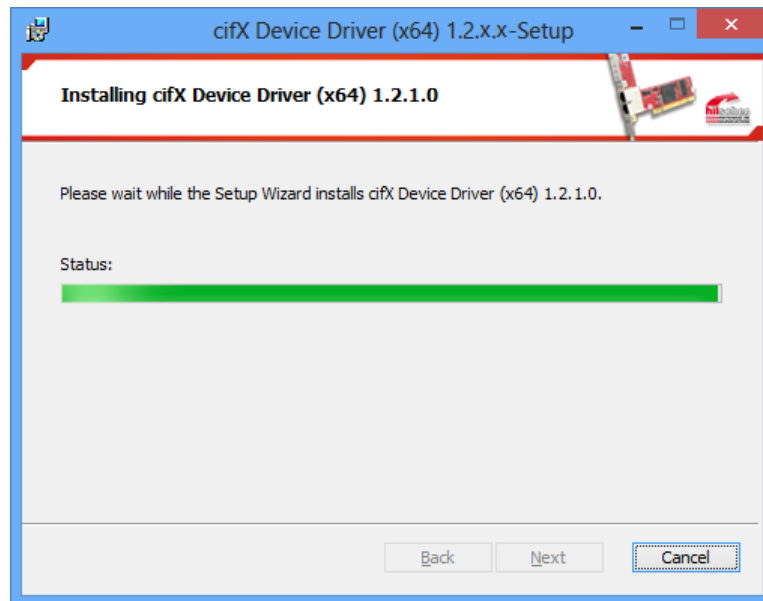


Figure 21: Installing cifX Device Driver

- After installation, the **Completed the cifX Device Driver Setup Wizard** window appears:



Figure 22: cifX Device Driver – Installation Completed

- Click **Finish**.

- You can now proceed to connect your communication module to the host system/PC.



Note: Under Windows 8, the driver installation process is practically finished after having executed the installation program. When you reboot Windows 8 after having installed the communication module hardware in your host system, respectively after having connected the module to your PC via PCI Carrier Board (comX) or via Evaluation Board (netJACK) for the first time, Windows copies the driver files to the appropriate Windows directories. This is an automated process, you do not need to take any action in this.

3. Install communication module in host system/PC.



Important: When installing the hardware, observe all safety messages in the user manual.

- Shut down Windows 8 and disconnect your host system or PC from the voltage supply.
- Install the communication module in your host system, respectively connect the communication module to your PC according to the instructions provided in the user manual.



See user manual

- *comX – Communication Modules for Real-Time-Ethernet and Fieldbus*, DOC100903UMxxEN, respectively
- *netJACK Communication Module – Installation, Operation and Hardware Description*, DOC110504UMxxEN

2.2.3.2 Checking Installation

After having installed the cifX Device Driver and having installed/connected the communication module, you should check in the Windows **Device Manager** if the driver has been correctly installed and if Windows recognizes the communication module.

1. Open the **Control Panel**.

- In the **Start** screen of Windows 8, right-click on an empty space.
- The **All apps** button appears in the lower part of the screen:



Figure 23: All Apps Button

- Click **All apps**.
- A list featuring all available programs (Apps) appears:

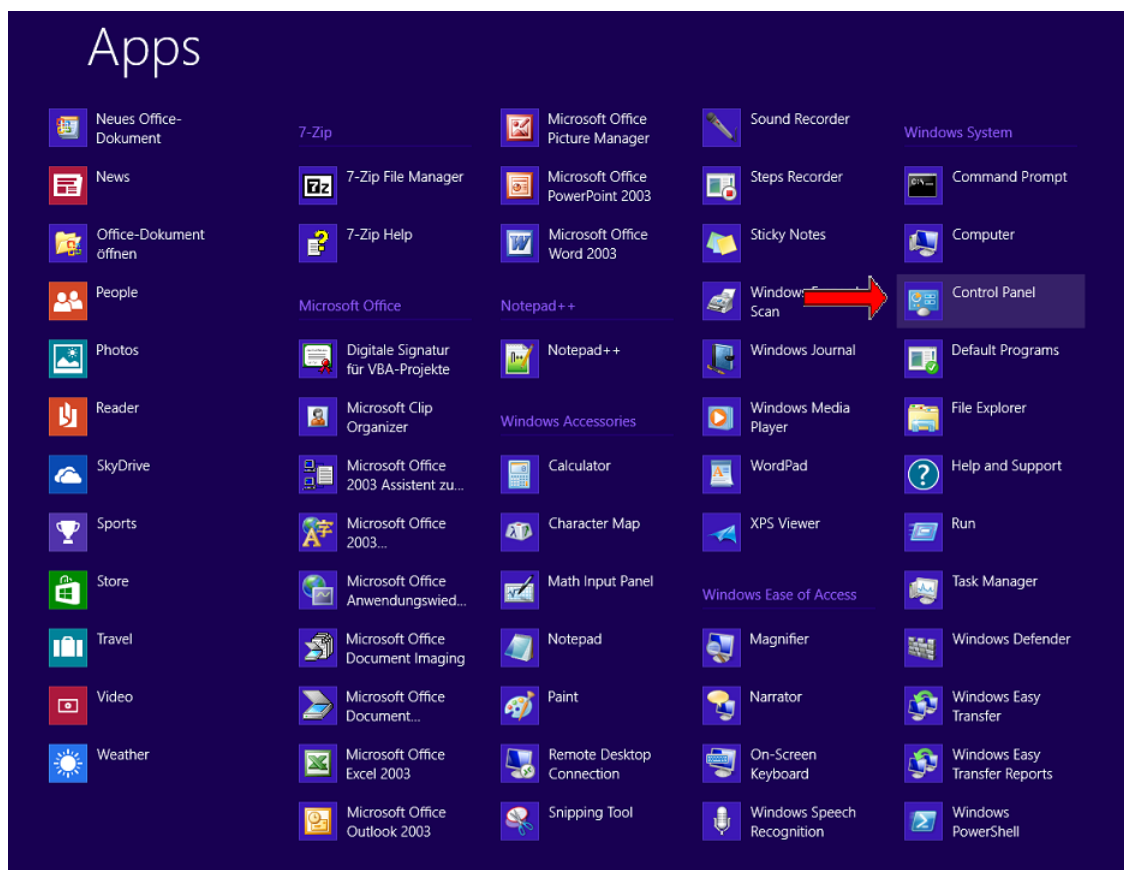


Figure 24: List of Installed Apps in Windows 8

- In the **Apps** list, click **Control Panel**.

➤ Windows 8 changes into “desktop mode” and opens the **Control Panel**:

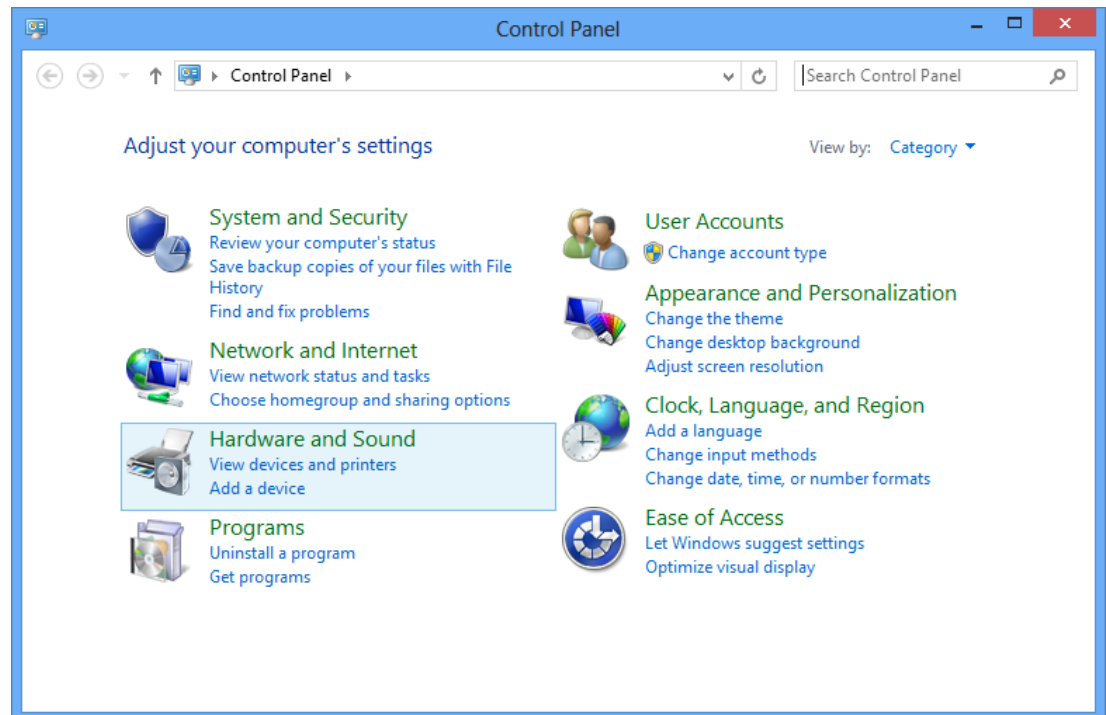


Figure 25: Control Panel

2. Open **Device Manager**.

➤ In the **Control Panel**, click **Hardware and Sound**.

➤ The **Hardware and Sound** window opens:

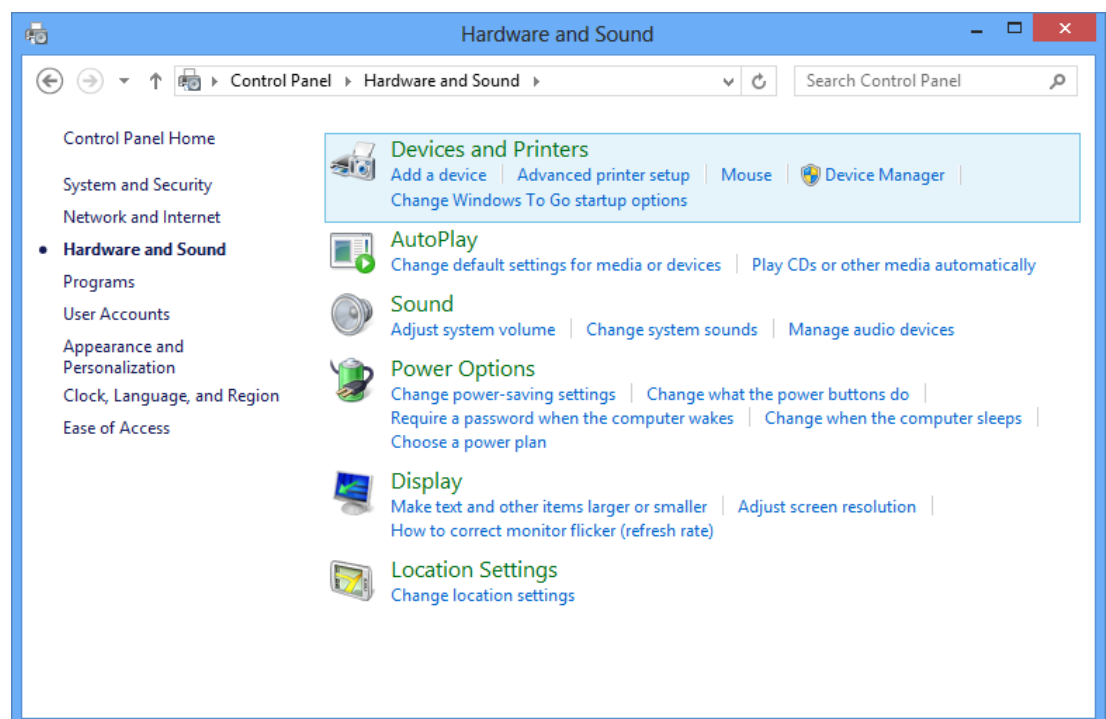


Figure 26: Hardware and Sound

- In the **Devices and Printers** group, click **Device Manager**.
- The **Device Manager** starts:

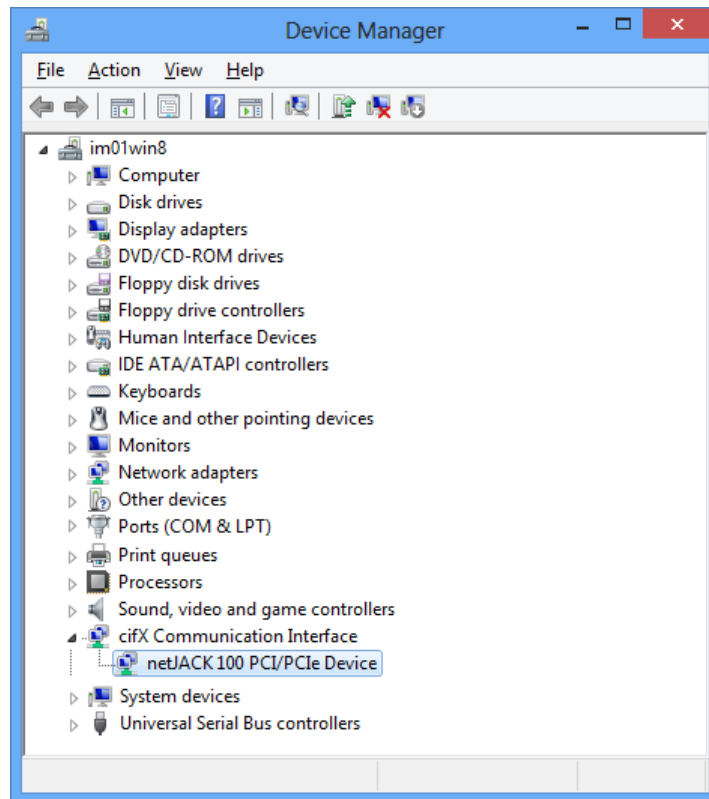


Figure 27: Display of Communication Module in Device Manager

3. Check if the communication module is recognized.
 - In the **Device Manager**, click on the triangle in front of the **cifX Communication Interface** entry.
 - A netJACK NJ 100EN-RE communication module for instance, which is connected via NJEB-E Evaluation Board to the PCI Express interface of the PC, will be displayed as **netJACK 100 PCI/PCIe Device**.

2.3 Uninstalling cifX Device Driver

2.3.1 Uninstalling cifX Device Driver under Windows XP

If you want to uninstall the USB drivers under Windows XP, proceed as follows:

- In the **Start** menu of Windows XP, select **Control Panel**.
- The **Control Panel** opens:

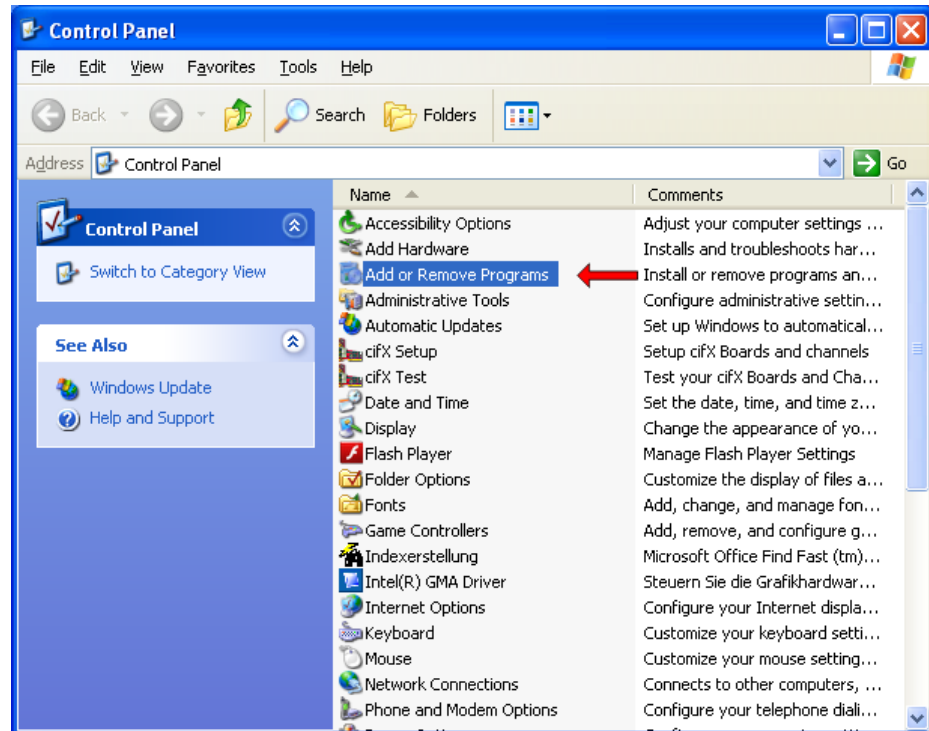


Figure 28: Control Panel

- In the **Control Panel**, double-click **Add or Remove Programs** entry.

➤ The **Add or Remove Programs** window opens:

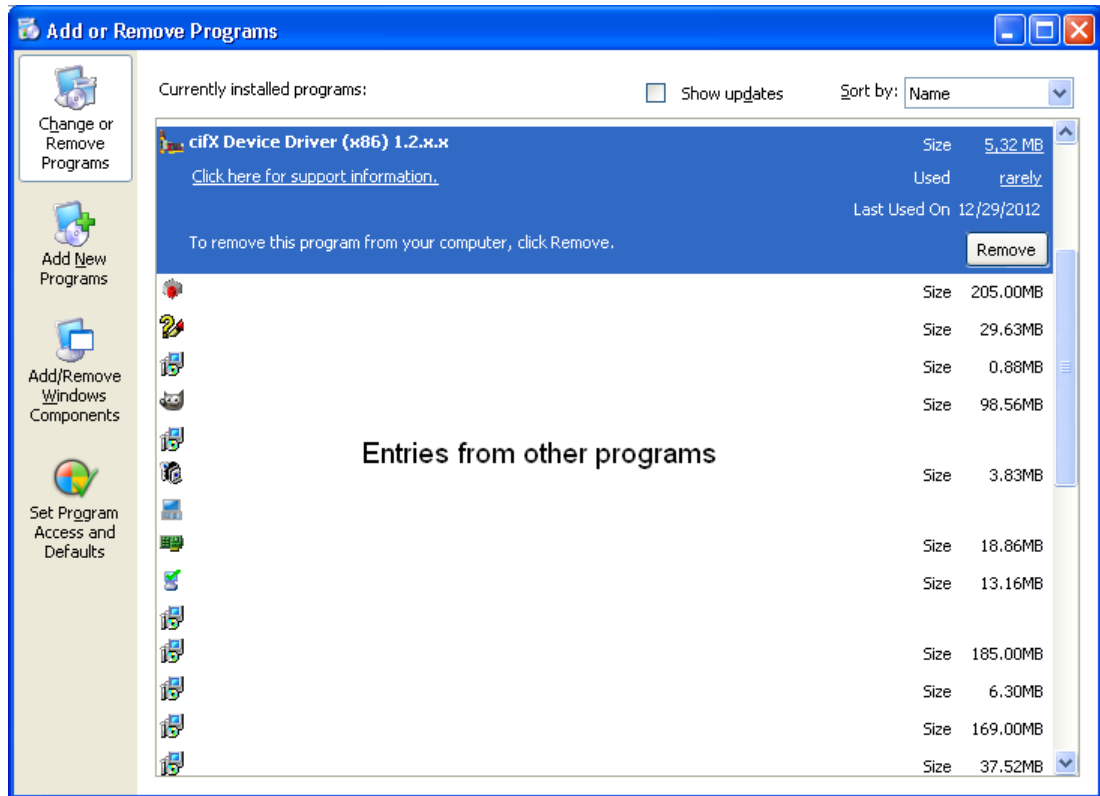


Figure 29: Add or Remove Programs

- Select **cifX Device Driver** entry.
- Click **Remove**.
- A security question appears:

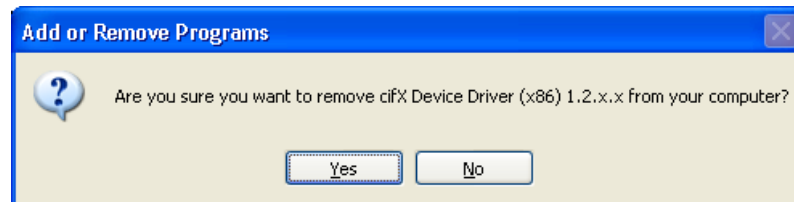


Figure 30: Acknowledge Uninstall

- Click **Yes**.
- The cifX Device Driver is removed from your host system/PC.

2.3.2 Uninstalling cifX Device Driver under Windows 7

For a complete removal of the cifX Device Driver under Windows 7, it is recommended to delete the driver first in the **Device Manager**, and then to uninstall the driver in the **Uninstall or change a program** window.

1. Open the **Device Manager**.

➤ In the Windows **Start** menu, select **Control Panel**.

➤ The **Control Panel** opens:

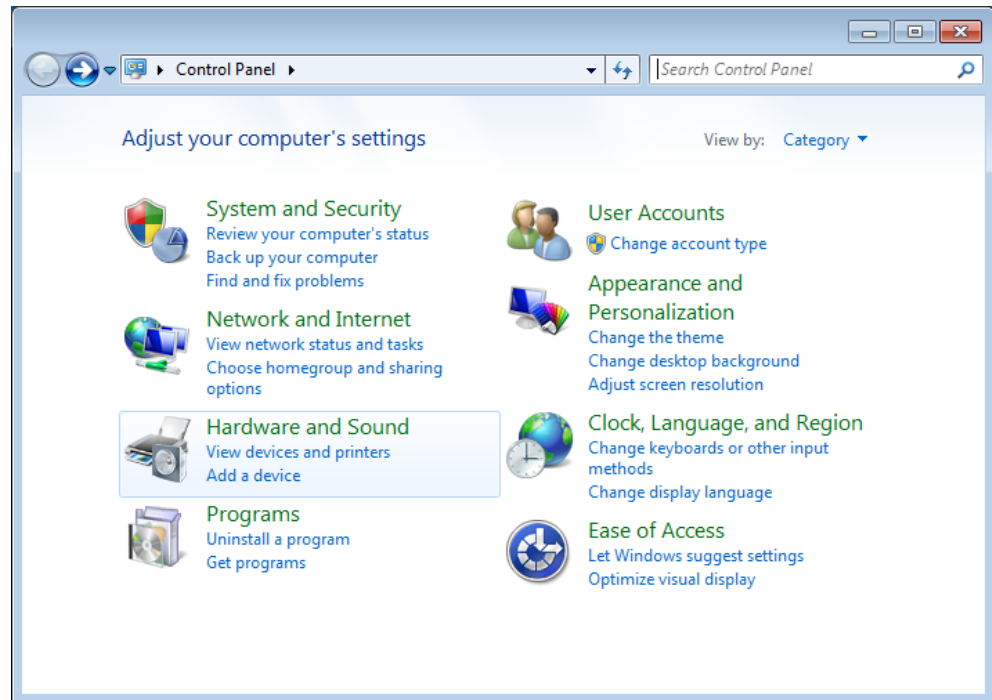


Figure 31: Adjust Your Computer's Settings Window

➤ In the **Control Panel**, click **Hardware and Sound**.

➤ The **Hardware and Sound** window opens:

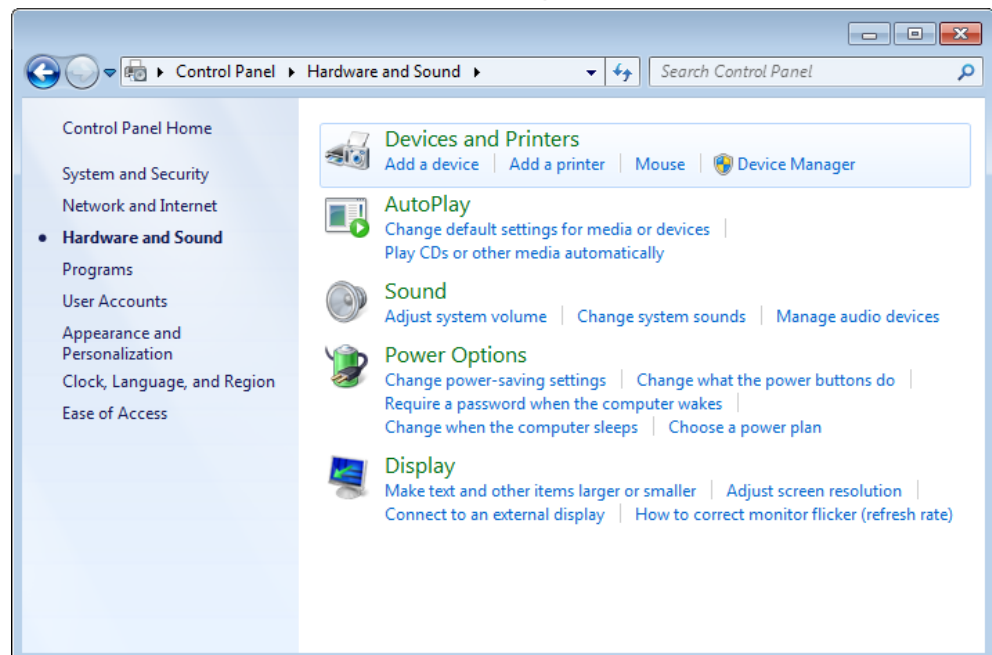


Figure 32: Hardware and Sound Window

➤ In the **Devices and Printers** group, click **Device Manager**.

➤ The **Device Manager** starts.

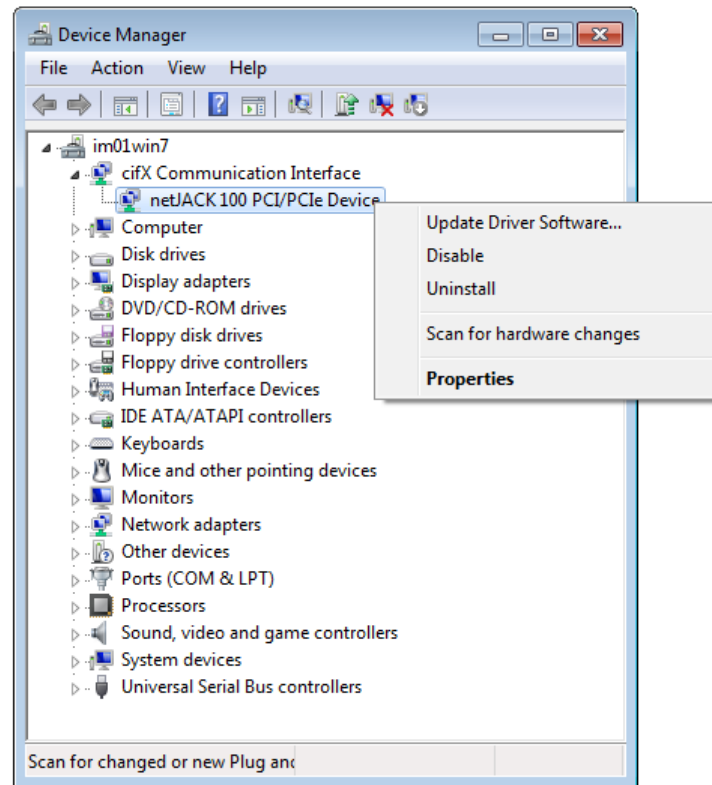


Figure 33: Display of Communication Module in Device Manager

2. Delete cifX Device Driver in the **Device Manager**.

- In the **Device Manager**, below the **cifX Communication Interface** entry, right-click on the communication module (in this case it is displayed as **netJACK 100 PCI/PCIe Device**) and choose **Properties** from the context menu.

➤ The **Properties** sheet opens.

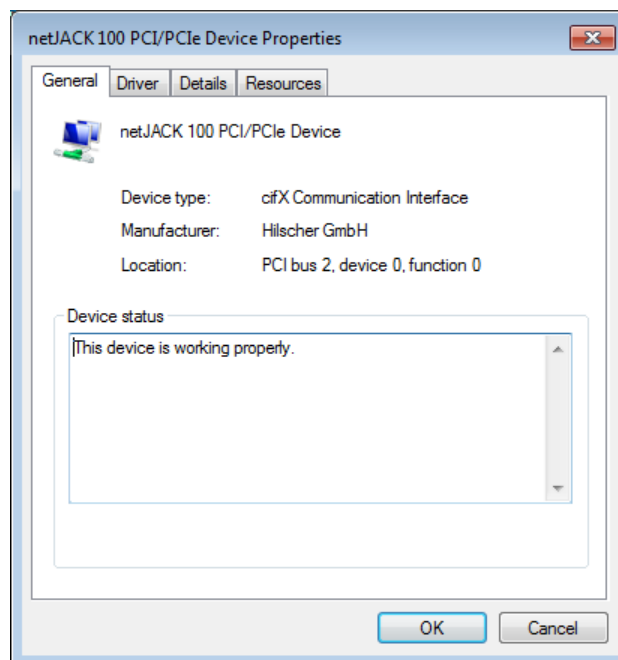


Figure 34: Properties of Communication Module in Device Manager

- Choose **Driver** tab.
- The **Driver** tab opens.

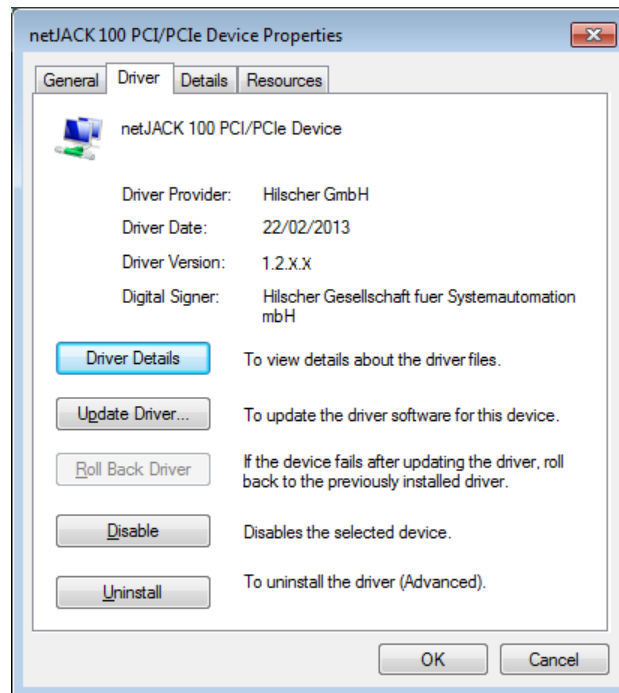


Figure 35: Driver of Communication Module in Device Manager

- Click **Uninstall**.
- The **Confirm Device Uninstall** dialog opens:



Figure 36: Delete Driver Software

- Select **Delete the driver software for this device** option.
- Click **OK**.
- The cifX Device Driver is being deleted.

3. Uninstall cifX Device Driver in the **Uninstall or change a program** window.

➤ In the **Start** menu of Windows, select **Control Panel**.

➤ The **Adjust your computer's settings** window opens:

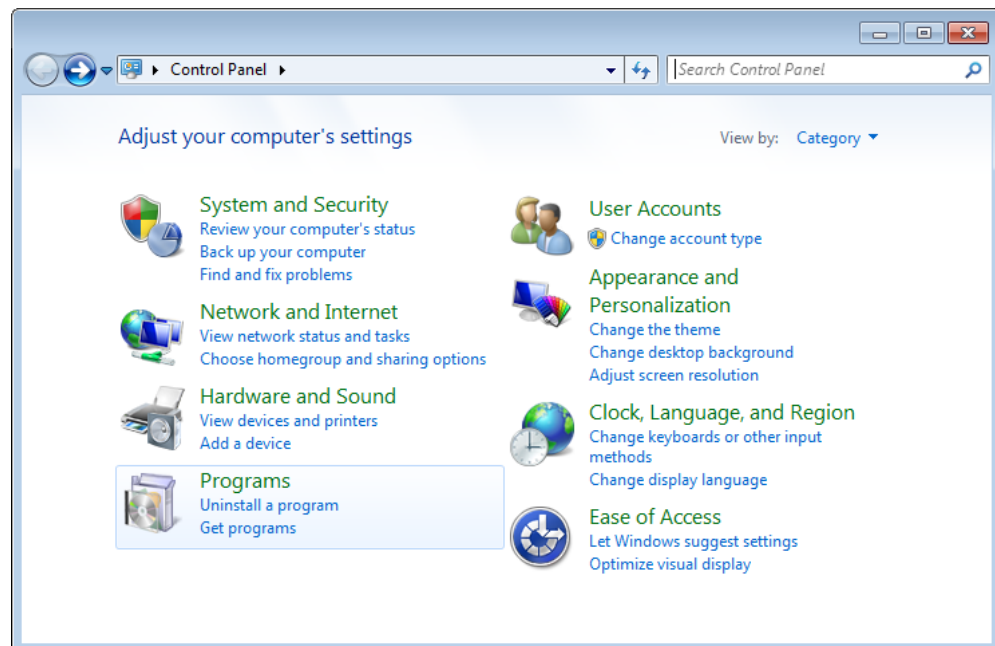


Figure 37: Adjust Your Computer's Settings Window

➤ In the **Programs** group, click **Uninstall a program**.

➤ The **Uninstall or change a program** window opens:

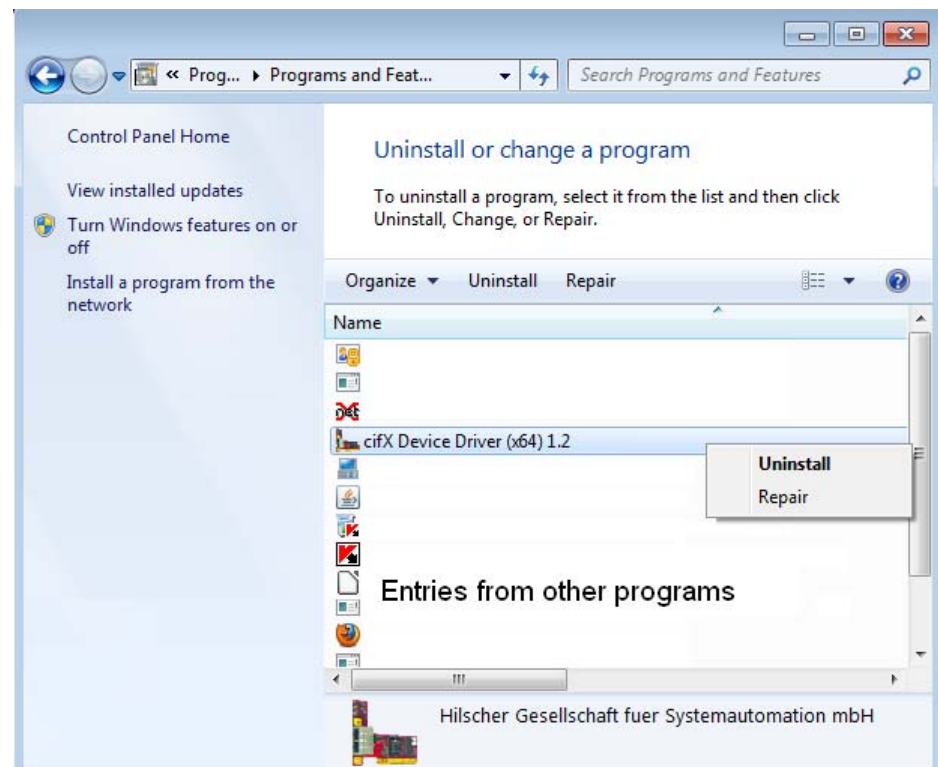


Figure 38: Uninstall or Change a Program Window

➤ Right-click on the **cifX Device Driver** entry and choose **Uninstall** from the context menu.

➤ A confirmation request appears:

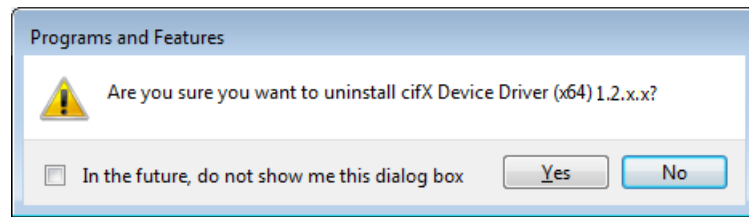


Figure 39: Confirmation Dialog

➤ Click **Yes**.

➤ The cifX Device Driver is being uninstalled from your host system or PC.

2.3.3 Uninstalling cifX Device Driver under Windows 8

For a complete removal of the cifX Device Driver under Windows 8, it is recommended to delete the driver first in the **Device Manager**, and then to uninstall the driver in the **Uninstall or change a program** window.

1. Open the **Control Panel**.

➤ In the **Start** screen of Windows 8, right-click on an empty space.

➤ The **All apps** button appears in the lower part of the screen:



Figure 40: All Apps Button

➤ Click **All apps**.

➤ A list featuring all available programs (Apps) appears:

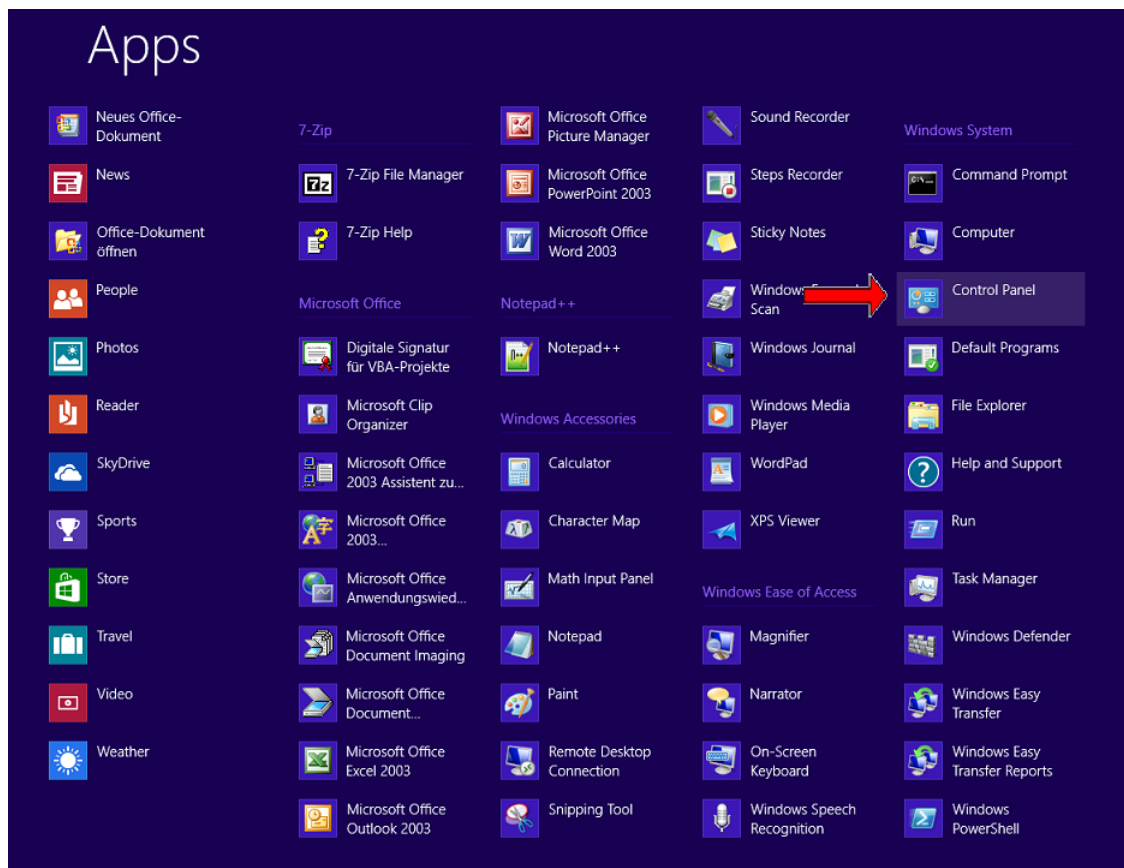


Figure 41: List of Installed Apps in Windows 8

➤ In the **Apps** list, click **Control Panel**.

➤ Windows 8 changes into “desktop mode” and opens the **Control Panel**:

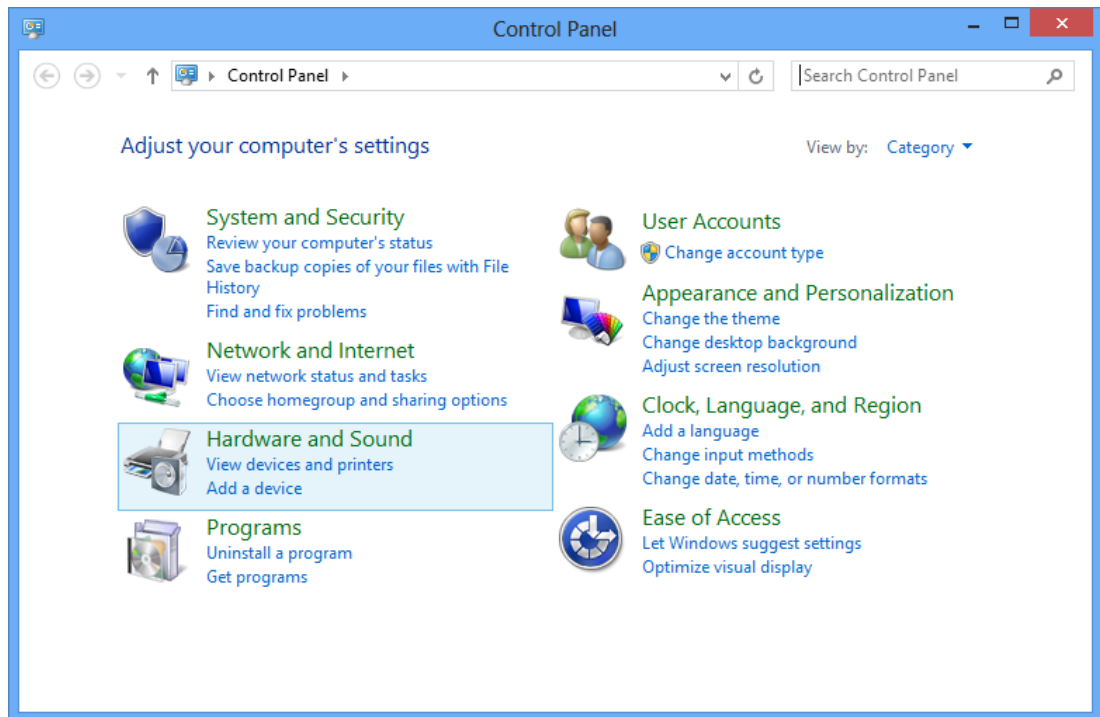


Figure 42: Control Panel

2. Open **Device Manager**.

➤ In the **Control Panel**, click **Hardware and Sound**.

➤ The **Hardware and Sound** window opens:

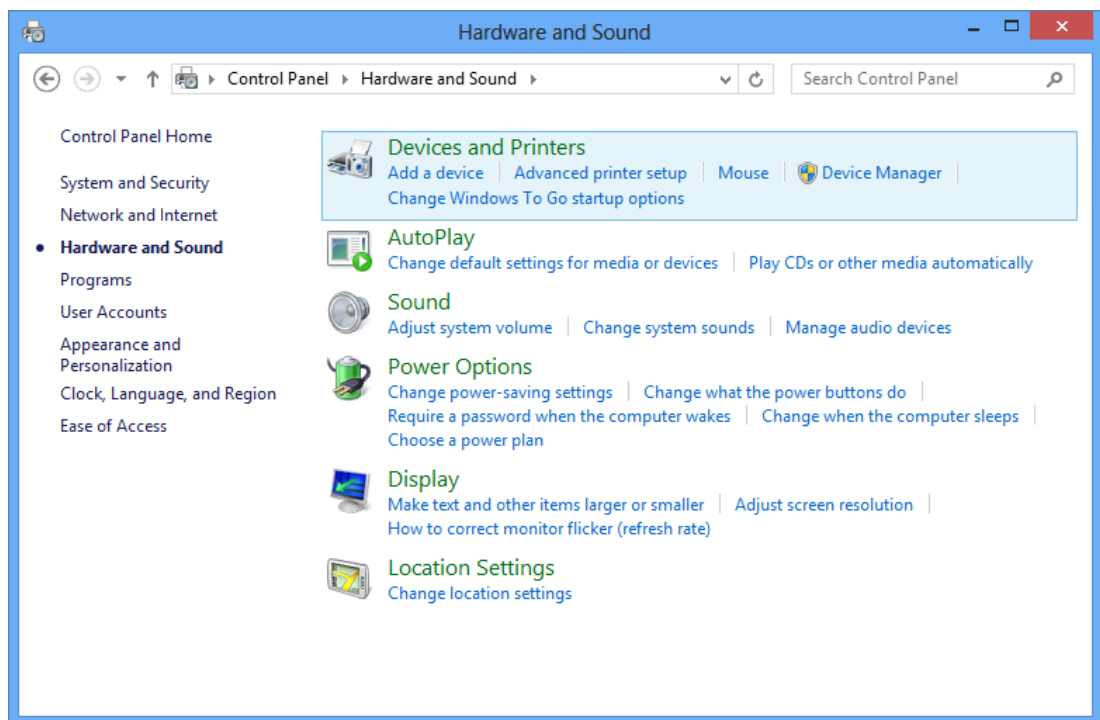


Figure 43: Hardware and Sound

- In the **Devices and Printers** group, click **Device Manager**.
- The **Device Manager** starts.

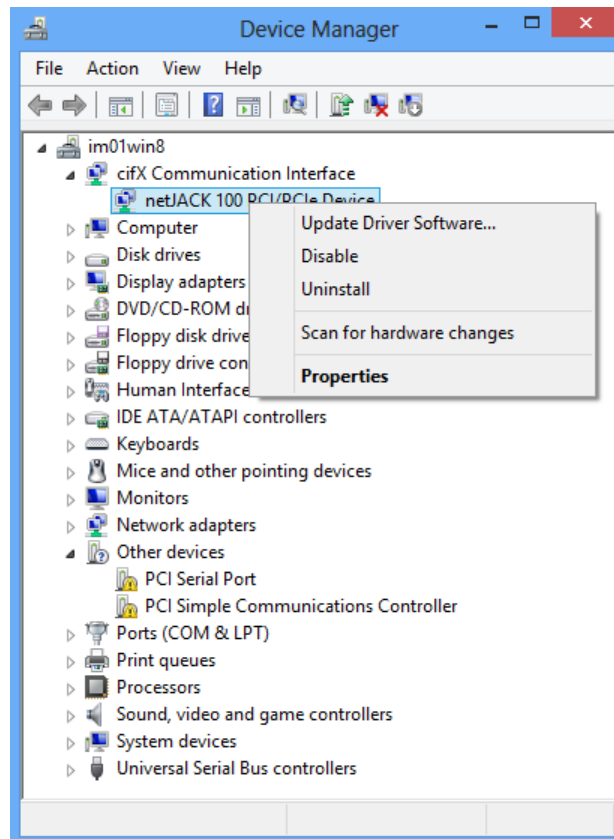


Figure 44: Display of Communication Module in Device Manager

2. Delete cifX Device Driver in the **Device Manager**.

- In the **Device Manager**, below the **cifX Communication Interface** entry, right-click on the communication module (in this case it is displayed as **netJACK 100 PCI/PCIe Device**) and choose **Properties** from the context menu.
- The **Device Properties** sheet opens:

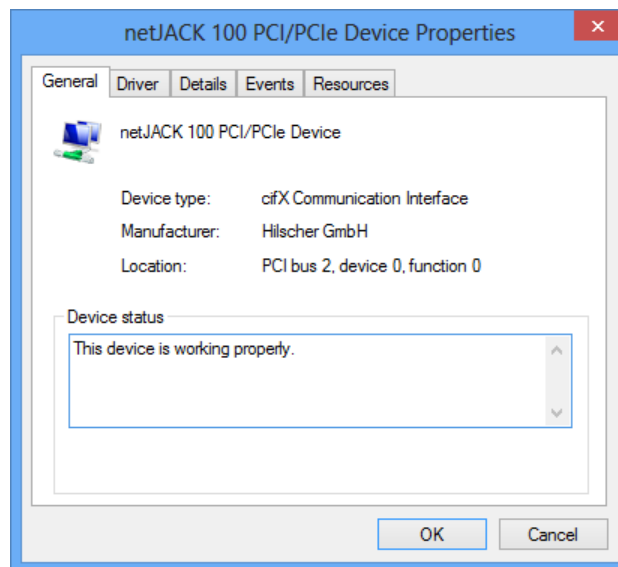


Figure 45: Properties of Communication Module in Device Manager

- Choose **Driver** tab.
- The **Driver** tab opens.

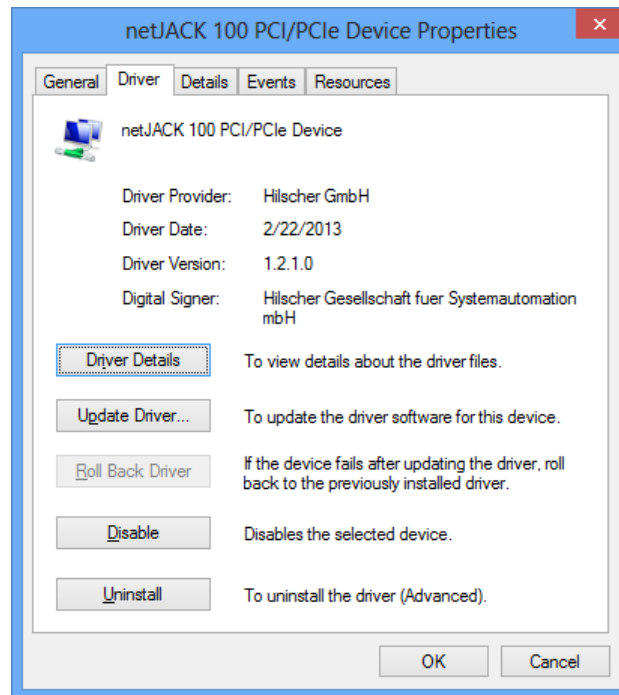


Figure 46: Driver of Communication Module in Device Manager

- Click **Uninstall**.
- The **Confirm Device Uninstall** dialog opens:

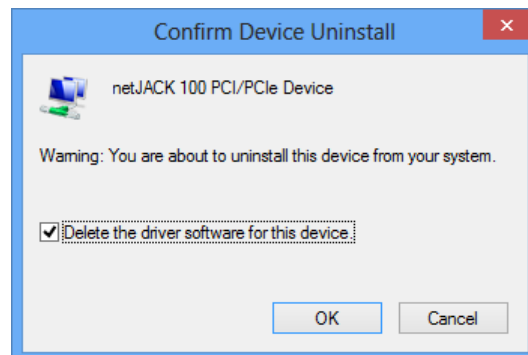


Figure 47: Delete Driver Software

- Select **Delete the driver software for this device** option.
- Click **OK**.
- The cifX Device Driver is being deleted.

3. Uninstall cifX Device Driver in the **Uninstall or change a Program** window.

➤ Open **Control Panel**.

➤ The **Control Panel** opens:

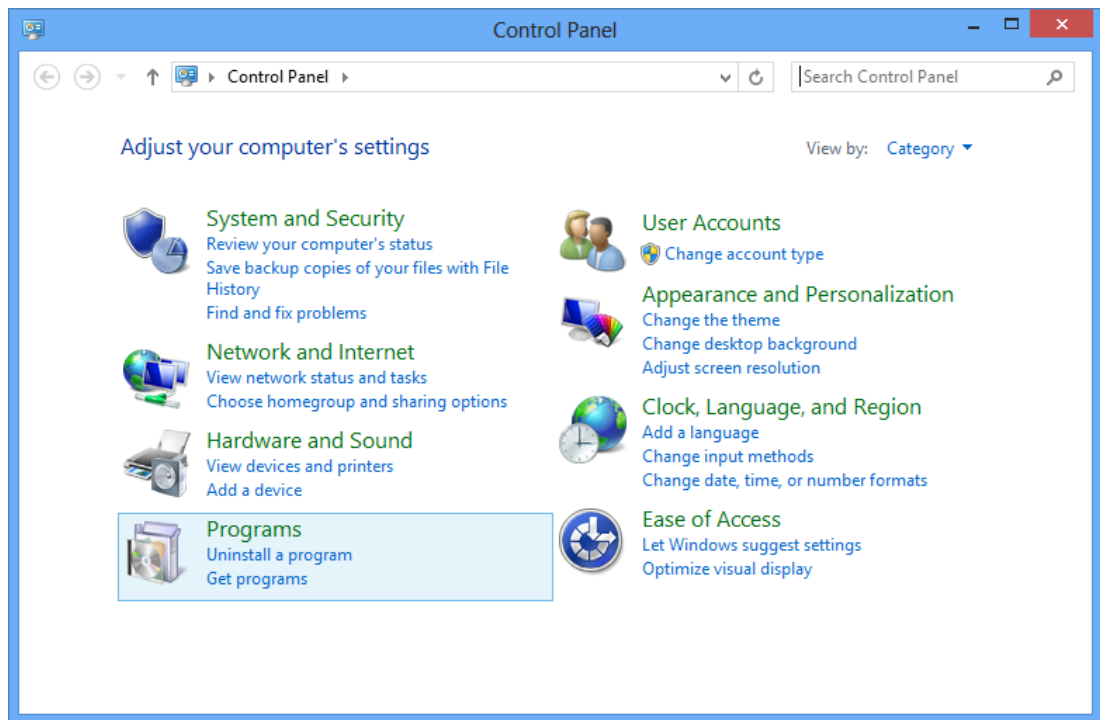


Figure 48: Control Panel

➤ In the **Programs** group of the **Control Panel**, click **Uninstall a program**.

➤ The **Programs and Features** window opens:

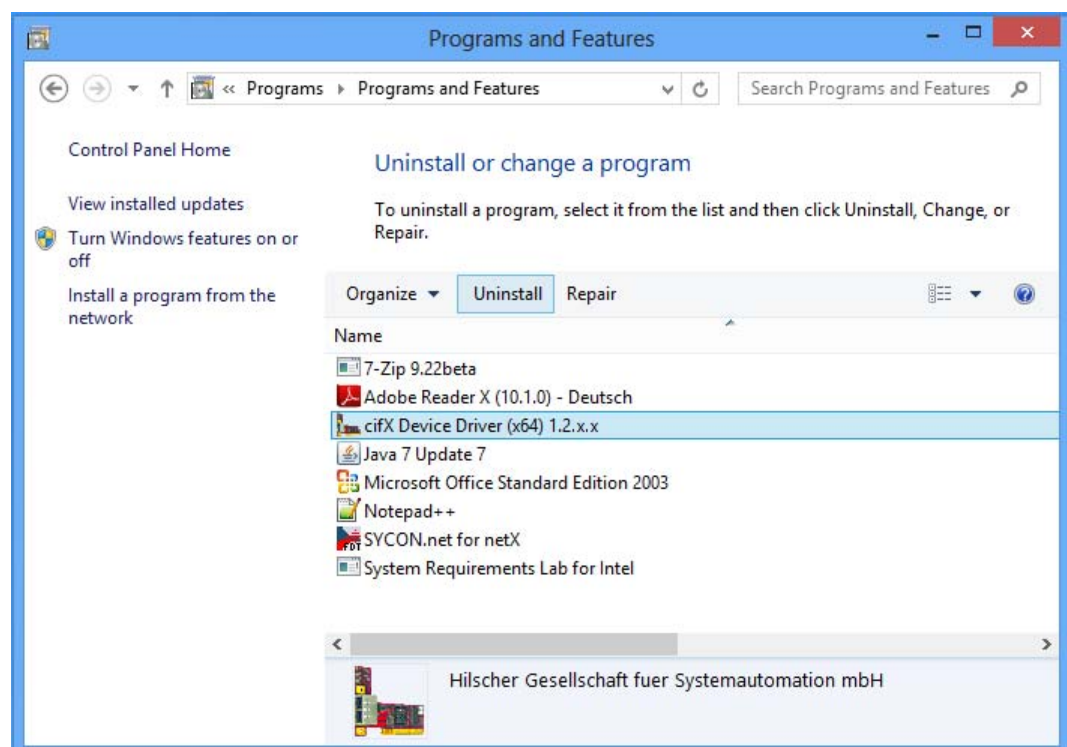


Figure 49: Uninstall or Change a Program Window

- Select **cifX Device Driver** entry.
- Above the list, click **Uninstall**.
- A security question appears:

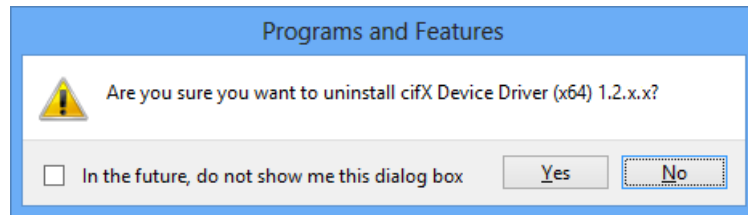


Figure 50: Acknowledge Uninstall

- Click **Yes**.
- The cifX Device Driver is being uninstalled from your host system or PC.

3 USB Driver

3.1 Overview

If a USB interface has been implemented on the carrier board of the host system of your communication module and if you want to use this USB interface to configure or diagnose your module or to update its firmware from a Windows PC, you need to install the USB drivers on your Windows PC. If you are operating a netJACK communication module with an Evaluation Board, and if you want to access its USB interface from a Windows PC, you also need to install the USB driver on your Windows PC.

The USB drivers are delivered on the Communication Solutions DVD. You can start an installation program for the USB drivers in the menu of the start screen of the DVD. Instructions for this are provided on the following pages. You can also start the installation program by double-clicking the *Setup.exe* file in the `Driver` and `Toolkit\USB Driver` directory of the Communication Solutions DVD.

The installation program contains all components needed for the installation of the drivers under Windows XP, Windows Vista, Windows 7 and Windows 8. It detects, whether the 32 bit or the 64 bit driver needs to be installed.

Please note the following:

- Always use the installation program, if possible, to install the USB driver, as described on the following pages.
- If older USB driver versions are installed on your system, uninstall them first before you install the new version.
- Install the USB driver *before* you connect your communication module to your Windows PC via USB cable (“software first” principle).
- After installing the USB driver and connecting your communication module via USB cable, check in the Windows Device Manager if the driver has been correctly installed and if Windows recognizes the connected communication module.



Note: Before you can use the USB interface of your communication module, you not only need to install the USB drivers, you also need to install the module in its host system, PC or Evaluation Board, connect it to a voltage supply and make sure that it is loaded with its firmware.

When you connect the module to the PC via USB cable, Windows can identify the appropriate USB driver only if a firmware is running on the module. Usually, Hilscher communication modules are shipped with their firmware already loaded. However, you will find information on how to load or update the firmware of your communication module in the user manual

- *comX – Communication Modules for Real-Time-Ethernet and Fieldbus*, DOC100903UMxxEN

or

- *netJACK Communication Module – Installation, Operation and Hardware Description*, DOC110504UMxxEN.

3.2 Installing USB Driver

3.2.1 Installing USB Driver under Windows XP

3.2.1.1 Installing USB Driver by Installation Program

1. Start the USB driver installation program.
 - Insert the Communication Solutions DVD into your local DVD-ROM drive.
 - The start screen of the Communication Solutions DVD is displayed:



Figure 51: Start Screen Communication Solutions – Install USB Driver

- In the menu, select **Drivers, Software and Tools > Install USB Driver**.



Note: Alternatively, you can also start the USB driver installation program (i. e. the **Device Driver Installation Wizard**) by double-clicking the *setup.exe* file in the *Driver* and *Toolkit\USB Driver* folder on the Communication Solutions DVD.

- The **Device Driver Installation Wizard** (i. e. the USB driver installation program) opens:



Figure 52: Device Driver Installation Wizard – Start Screen

2. Start the installation.

- Click **Next**.

- The installation of the USB drivers is started.

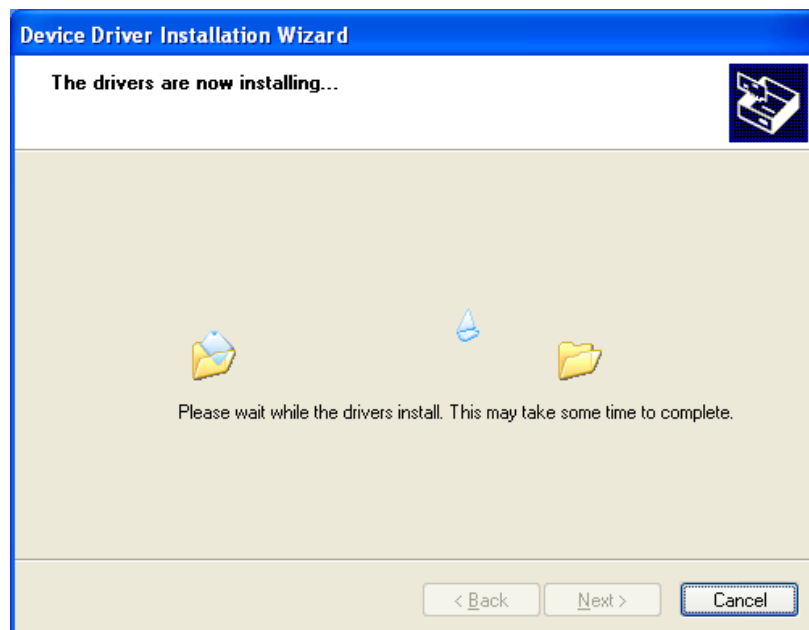


Figure 53: Device Driver Installation Wizard – Driver Are Installing

- After installation, the **Completing the Device Installation Wizard** window appears:



Figure 54: Device Driver Installation Wizard – Installation Completed

- Click **Finish**.



Note: Under Windows XP, the installation process is not yet finished after having executed the **Device Driver Installation Wizard**.

The installation process has to be completed in the **Found New Hardware Wizard**, which automatically opens when you connect the communication module to a PC via USB cable for the first time.

3. Complete the installation in the **Found New Hardware Wizard**.

- Connect your communication module via USB cable to your Windows PC.

- The **Found New Hardware Wizard** starts:



Figure 55: Found New Hardware Wizard – USB Driver (1)

- Answer the question **Can Windows connect to Windows Update...?**, by selecting the **No, not this time** option.
- Click **Next**.
- The window with the installation options appears:

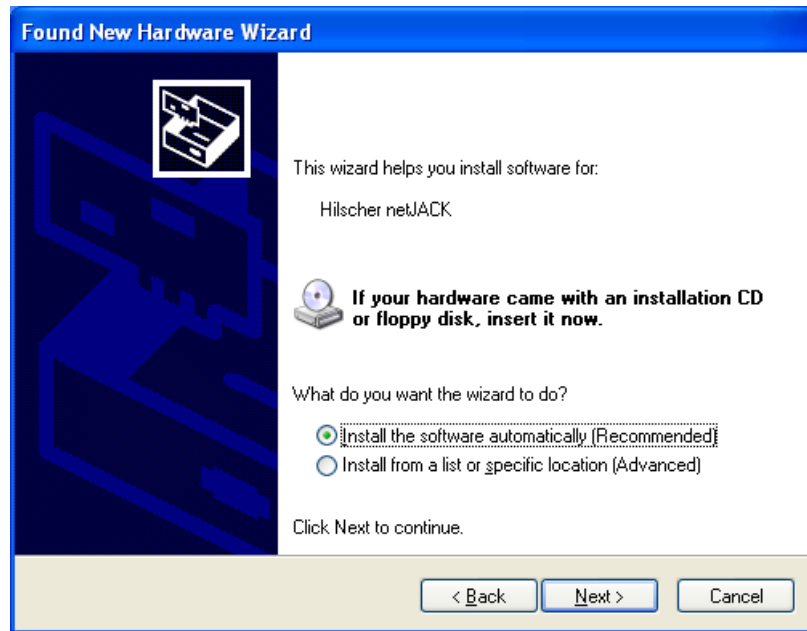


Figure 56: Found New Hardware Wizard – USB Driver (2)

- If you have already executed the installation program for the USB driver (as recommended), you can ignore the wizard's request to insert a CD or floppy disk. Answer the **What do you want the wizard to do?** question by selecting the **Install the software automatically** option.
- Click **Next**.
- Windows copies the driver files to the Windows directories.

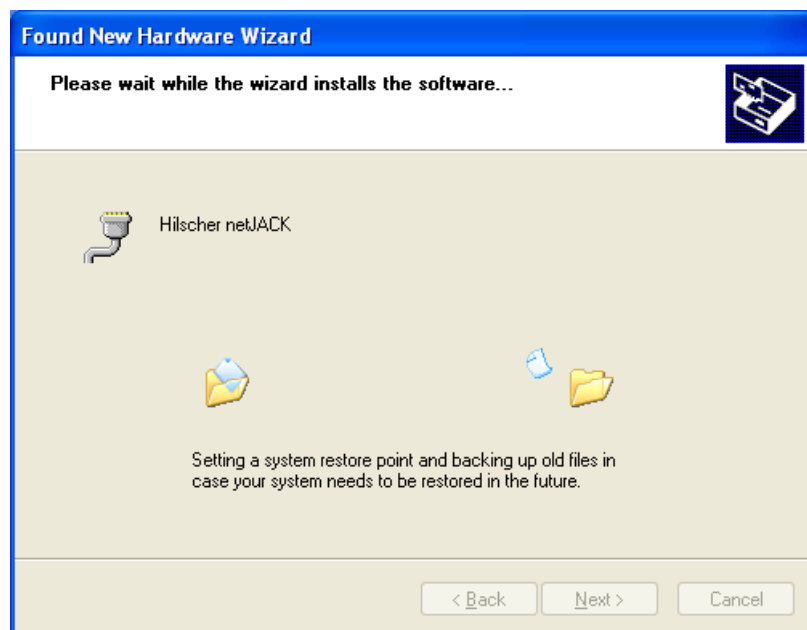


Figure 57: Found New Hardware Wizard – USB Driver (3)

➤ The **Completing the Found New Hardware Wizard** window appears:

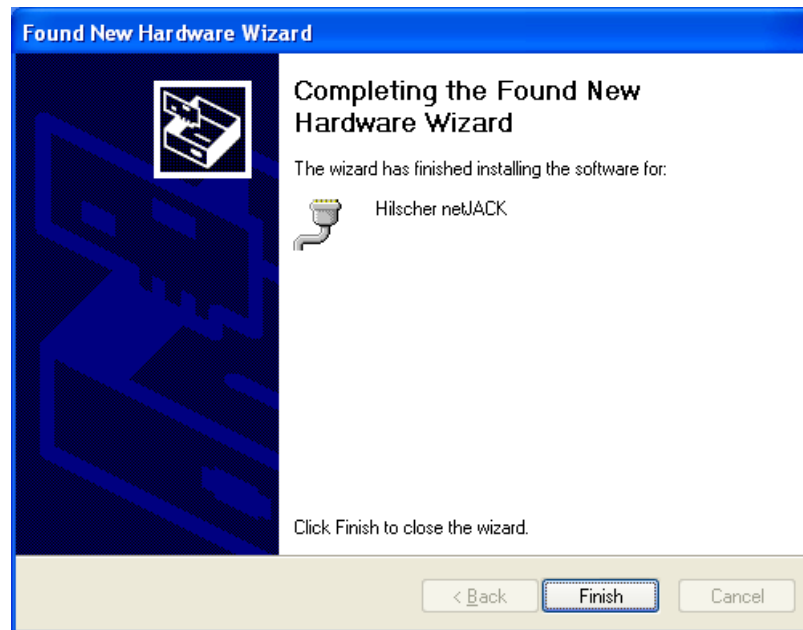


Figure 58: Found New Hardware Wizard – USB Driver (4)

➤ Click **Finish**.

➤ The installation of the USB driver is now complete.

3.2.1.2 Checking Installation

After having installed the USB driver and having connected the communication module via USB cable, you should check in the Windows Device Manager if the driver has been correctly installed and if Windows recognizes the communication module.

1. Open the **Device Manager**.

➤ In the **Start** menu of Windows, select **Control Panel**.

➤ The **Control Panel** opens:

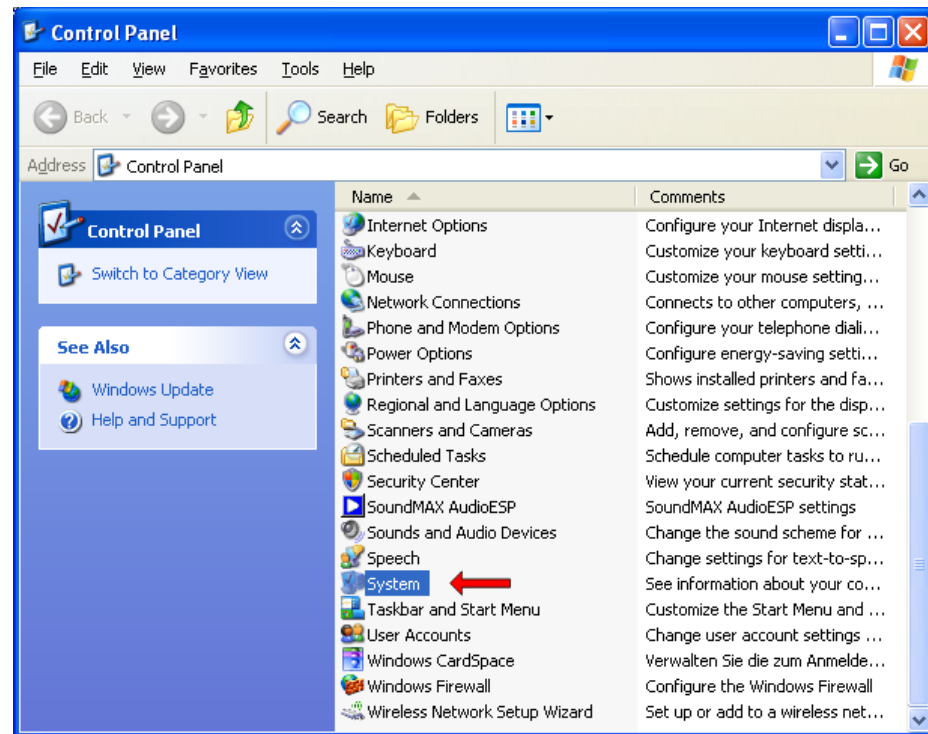


Figure 59: Control Panel

➤ In the **Control Panel**, double-click **System**.

➤ The **System Properties** sheet opens:

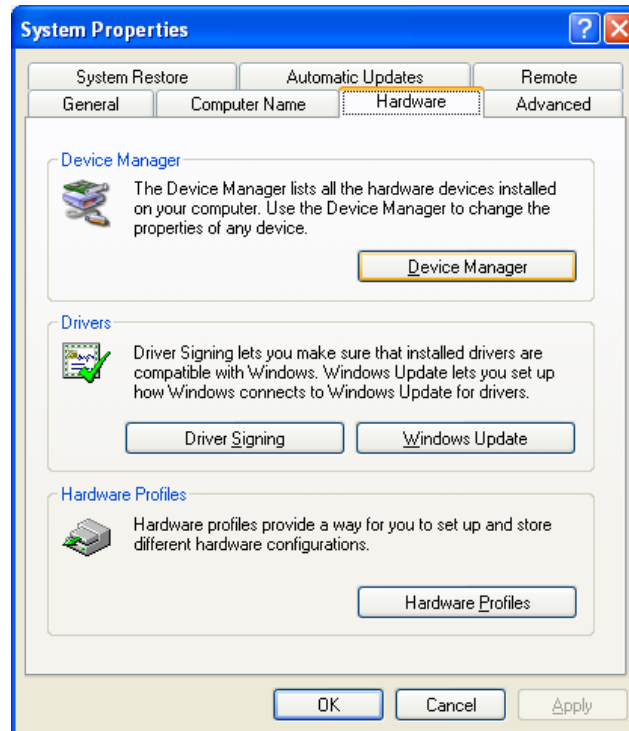


Figure 60: System Properties

- In the **System Properties** sheet, select **Hardware** tab.
- In the **Hardware** tab, click **Device Manager**.
- The **Device Manager** starts:

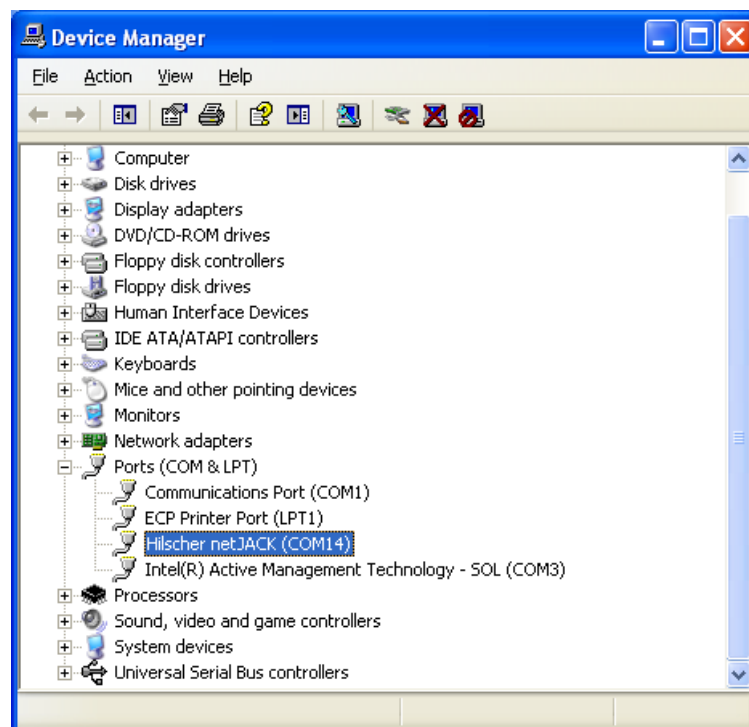


Figure 61: Display of USB Connection in Device Manager

2. Check if the communication module is recognized.
 - Click on the plus symbol in front of the **Ports (COM & LPT)** entry.
 - A netJACK NJ 100EN-RE communication module for instance will be displayed as **Hilscher netJACK**, with the currently used COM port indicated in brackets.

3.2.2 Installing USB Driver under Windows 7

3.2.2.1 Installing USB Driver by Installation Program

1. Start the USB Driver setup program.
 - Insert the Communication Solutions DVD into your local DVD-ROM drive.
 - The start screen of the Communication Solutions DVD is displayed:



Figure 62: Start Screen Communication Solutions – Install USB Driver

- In the menu, select **Drivers, Software and Tools > Install USB Driver**.



Note: Alternatively, you can also start the USB driver setup program (i. e. the **Device Driver Installation Wizard**) by double-clicking the *setup.exe* file in the *Driver and Toolkit\USB Driver* folder of the Communication Solutions DVD.

- The **Device Driver Installation Wizard** (i. e. the USB driver installation program) opens:



Figure 63: Device Driver Installation Wizard – Start Screen

2. Start the installation.

- Click **Next**.
- The installation of the USB drivers is started.

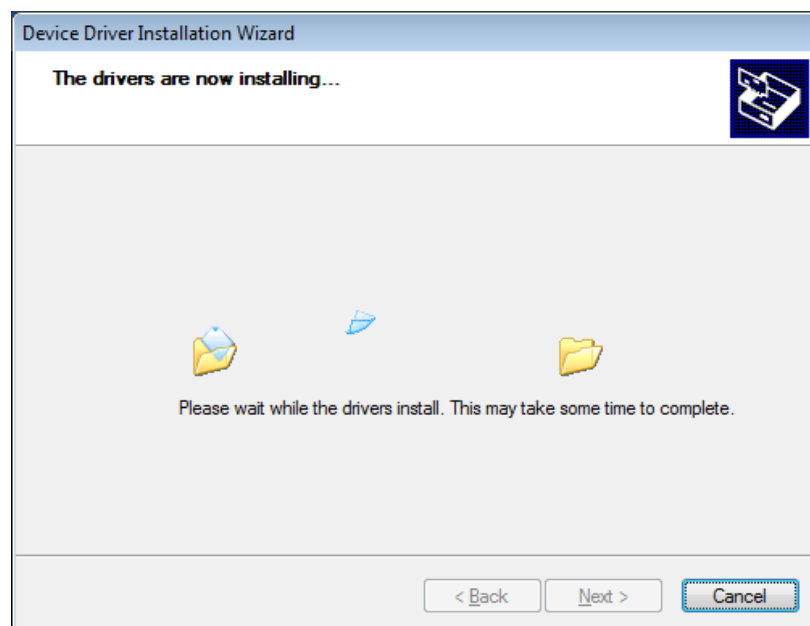


Figure 64: Device Driver Installation Wizard – Drivers Are Installing

- After installation, the **Completing the Device Installation Wizard** window appears:



Figure 65: Device Driver Installation Wizard – Installation Completed

- Click **Finish**.

- The installation of the USB driver is completed.



Note: By completing the **Device Driver Installation Wizard**, the installation process under Windows 7 is practically finished.

When you connect the communication module to the PC via USB cable for the first time, the **Installing device driver software** message appears in the Windows task bar. Windows then copies the driver files to the appropriate Windows directories. This is an automated process, you do not need to take any action in this. Finally, the **Device driver software installed successfully** message appears in the task bar.

3.2.2.2 Checking Installation

After having installed the USB driver and having connected the communication module via USB cable, you should check in the Device Manager of Windows 7 if the driver has been correctly installed and if Windows recognizes the communication module.

1. Open the **Device Manager**.

➤ In the Windows **Start** menu, select **Control Panel**.

➤ The **Control Panel** opens:

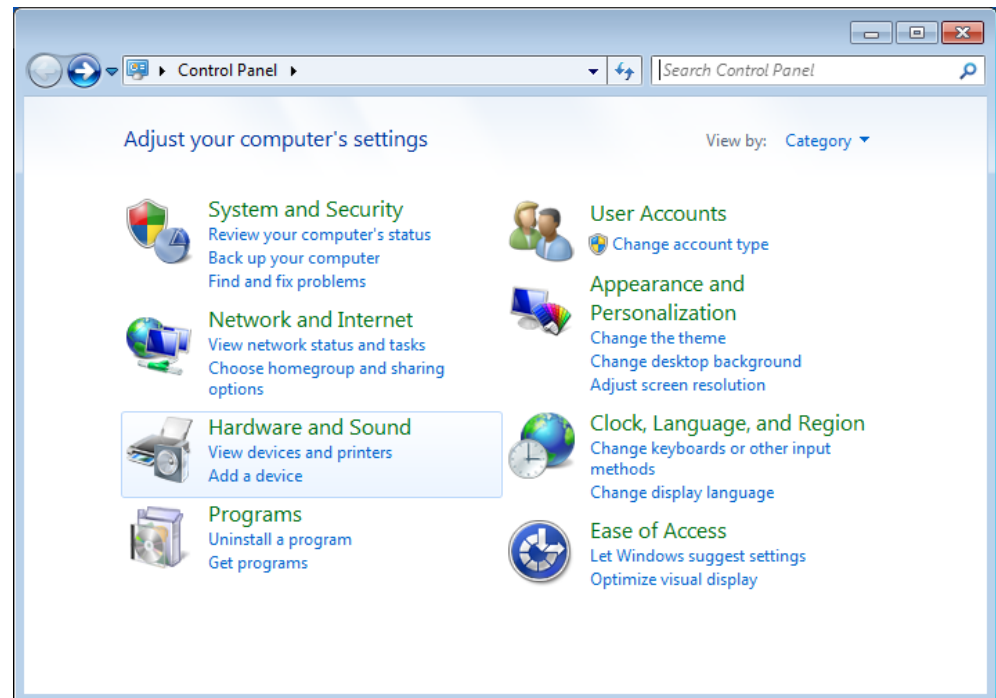


Figure 66: Adjust Your Computer's Settings Window

➤ In the **Control Panel**, click **Hardware and Sound**.

➤ The **Hardware and Sound** window opens:

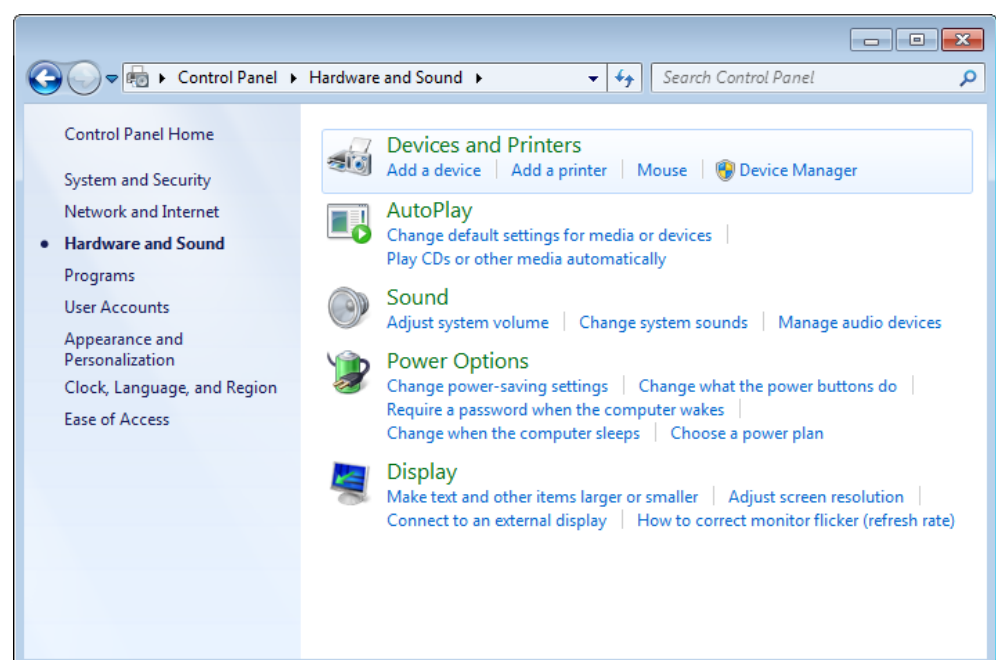


Figure 67: Hardware and Sound Window

- In the **Devices and Printers** group, click **Device Manager**.
- The **Device Manager** starts:

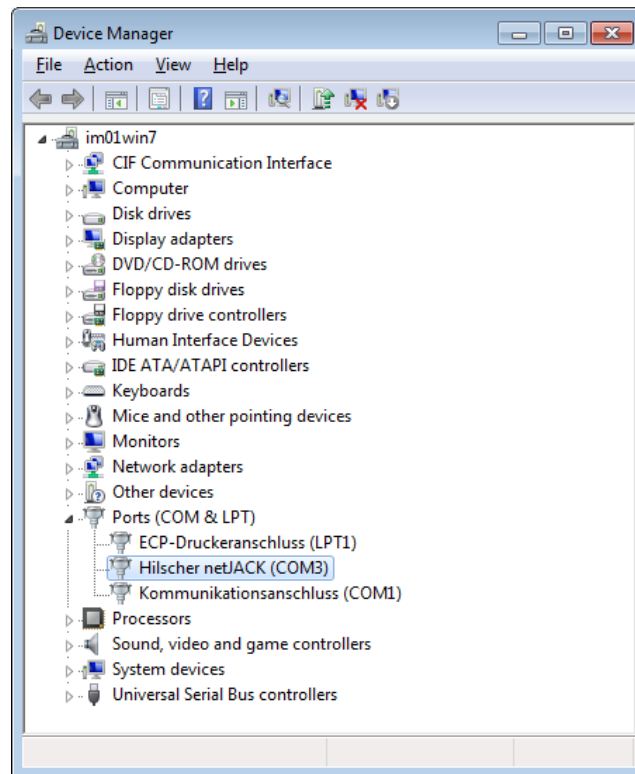


Figure 68: Display of USB Connection in Device Manager

2. Check if the communication module is recognized.
 - Click on the triangle in front of the **Ports (COM & LPT)** entry.
 - A netJACK NJ 100EN-RE communication module for instance will be displayed as **Hilscher netJACK**, with the currently used COM port indicated in brackets.

3.2.3 Installing USB Drivers under Windows 8

3.2.3.1 Installing USB Driver by Installation Program

1. Start the USB Driver setup program.
 - Insert the Communication Solutions DVD into your local DVD-ROM drive.
 - The start screen of the Communication Solutions DVD is displayed:



Figure 69: Start Screen Communication Solutions – Install USB Driver

- In the menu, select **Drivers, Software and Tools > Install USB Driver**.



Note: Alternatively, you can also start the USB driver setup program (i. e. the **Device Driver Installation Wizard**) by double-clicking the *setup.exe* file in the *Driver and Toolkit\USB Driver* folder of the Communication Solutions DVD.

- The **Device Driver Installation Wizard** (i. e. the USB driver installation program) opens:



Figure 70: Device Driver Installation Wizard – Start Screen

2. Start the installation.

- Click **Next**.

- The installation of the USB drivers is started.

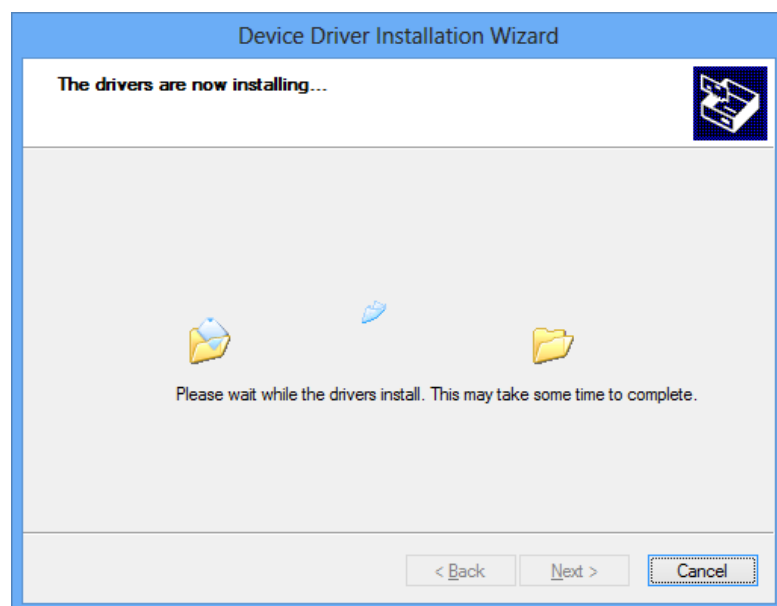


Figure 71: Device Driver Installation Wizard – Drivers Are Installing

- After installation, the **Completing the Device Installation Wizard** window appears:



Figure 72: Device Driver Installation Wizard – Installation Completed

- Click **Finish**.
- The installation of the USB drivers is completed.



Note: By completing the **Device Driver Installation Wizard**, the installation process under Windows 8 is practically finished. When you connect the communication module to your PC via USB cable for the first time, the following symbol appears in the task bar (visible only if you are in the “desktop mode” of Windows 8):



Windows then copies the driver files to the appropriate Windows directories. This is an automated process, you do not need to take any action in this.

3.2.3.2 Checking Installation

After having installed the USB driver and having connected the communication module via USB cable, you should check in the Device Manager of Windows 8 if the driver has been correctly installed and if Windows recognizes the communication module.

1. Open the **Control Panel**.

➤ In the **Start** screen of Windows 8, right-click on an empty space.

➤ The **All apps** button appears in the lower part of the screen:



Figure 73: All Apps Button

➤ Click **All apps**.

➤ A list featuring all available programs (Apps) appears:

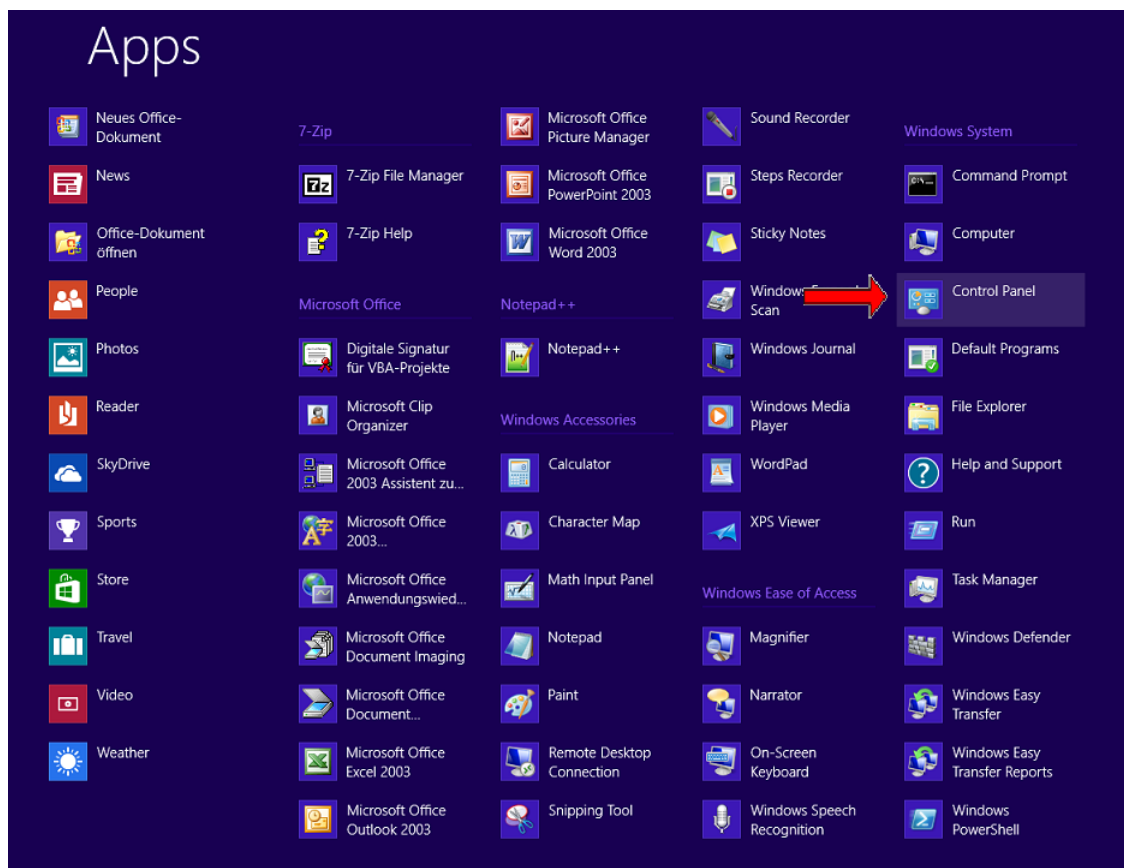


Figure 74: List of Installed Apps in Windows 8

➤ In the **Apps** list, click **Control Panel**.

➤ Windows 8 changes into “desktop mode” and opens the **Control Panel**:

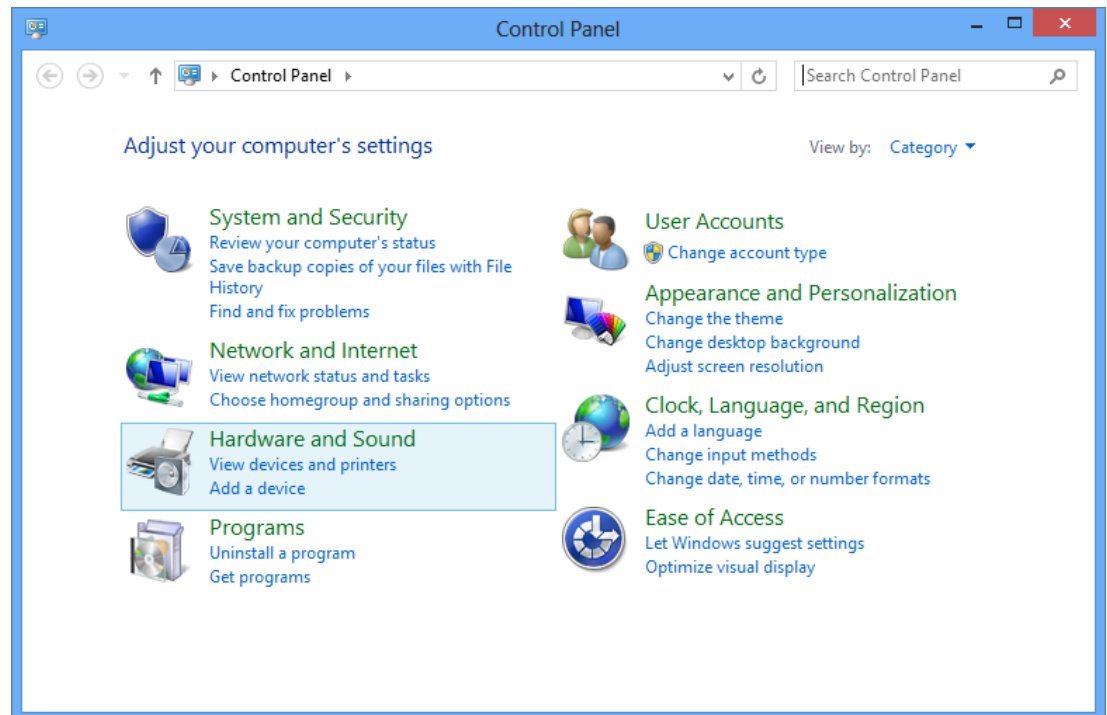


Figure 75: Control Panel

2. Open **Device Manager**.

➤ In the **Control Panel**, click **Hardware and Sound**.

➤ The **Hardware and Sound** window opens:

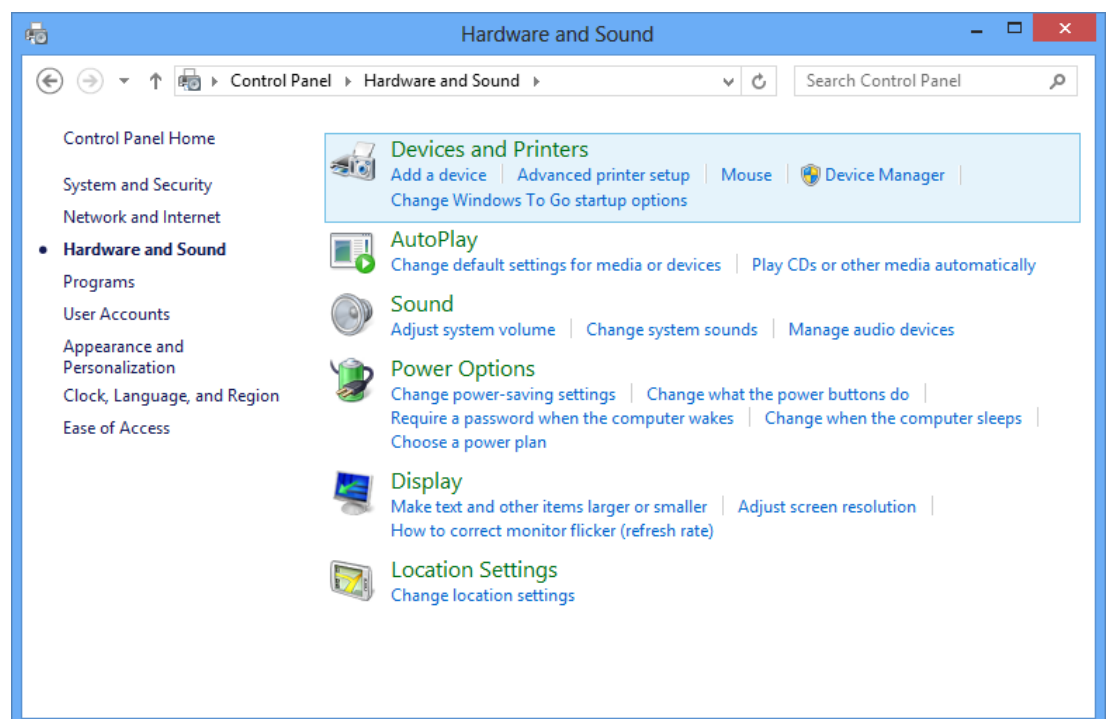


Figure 76: Hardware and Sound

- In the **Devices and Printers** group, click **Device Manager**.
- The **Device Manager** starts:

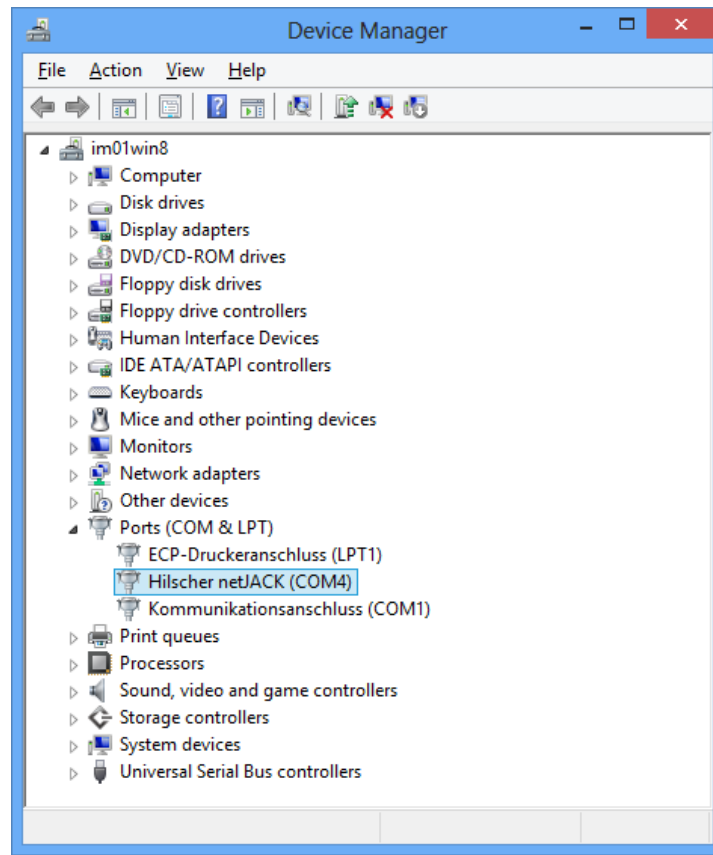


Figure 77: Display of USB Connection in Device Manager

3. Check if the communication module is recognized.
 - Click on the triangle in front of the **Ports (COM & LPT)** entry.
 - A netJACK NJ 100EN-RE communication module for instance will be displayed as **Hilscher netJACK**, the currently used COM port is indicated in brackets.

3.3 Uninstalling USB Driver

3.3.1 Uninstalling USB Driver under Windows XP

If you want to uninstall the USB drivers under Windows XP, proceed as follows:

- In the **Start** menu of Windows XP, select **Control Panel**.
- The **Control Panel** opens:

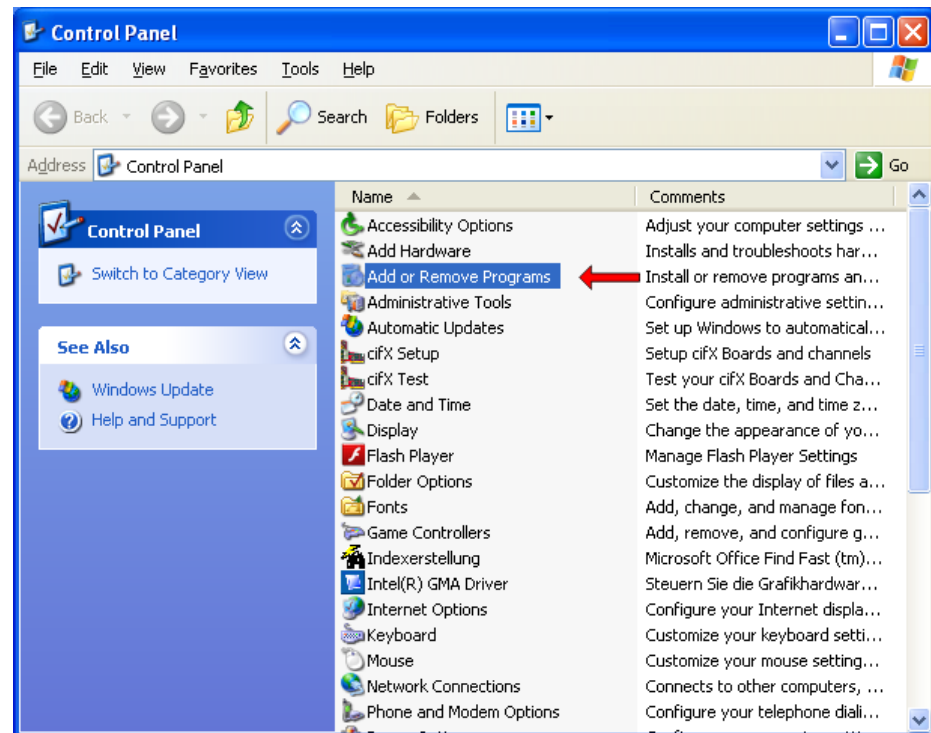


Figure 78: Control Panel

- In the **Control Panel**, double-click **Add or Remove Programs** entry.

➤ The **Add or Remove Programs** window opens:

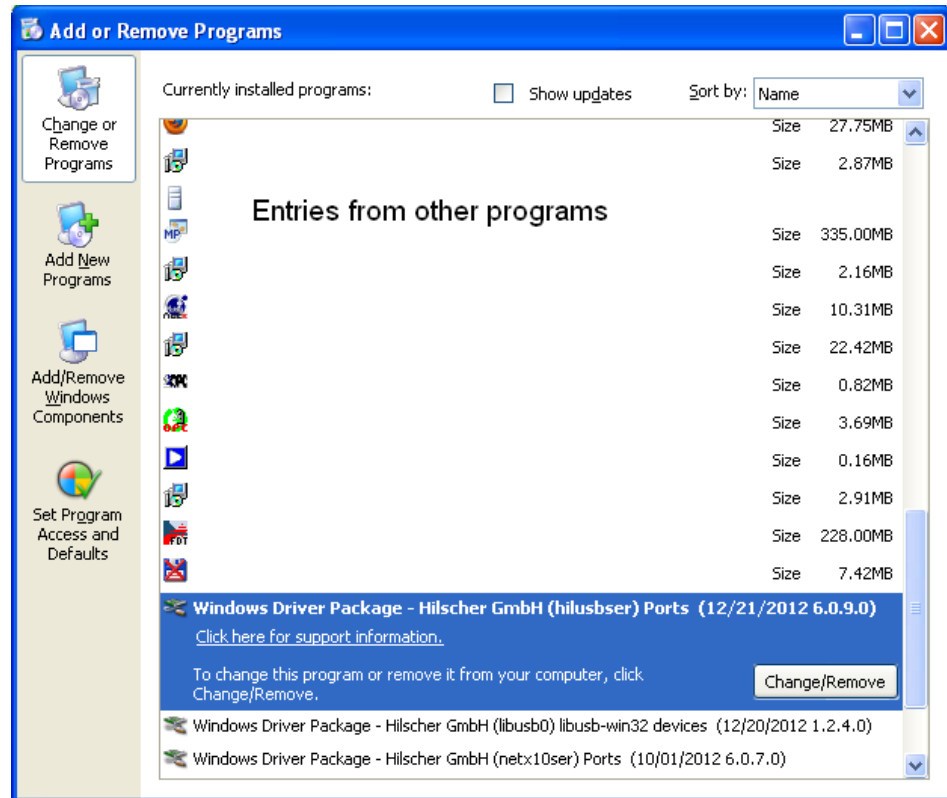


Figure 79: Add or Remove Programs

- Select **Windows Driver Package – Hilscher GmbH (hilusbser) Ports** entry.
- Click **Change/Remove**.
- A security question appears:

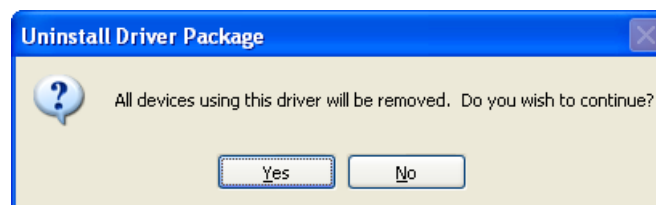


Figure 80: Acknowledge Uninstall

- Click **Yes**.
- The USB driver package is removed from your PC.
- Repeat this procedure for the remaining driver packages **Windows Driver Package – Hilscher GmbH (libusb0) [...] devices** and **Windows Driver Package – Hilscher GmbH (netx10ser) Ports**.

3.3.2 Uninstalling USB Driver under Windows 7

- In the **Start** menu of Windows 7, select **Control Panel**.
- The **Control Panel** opens:

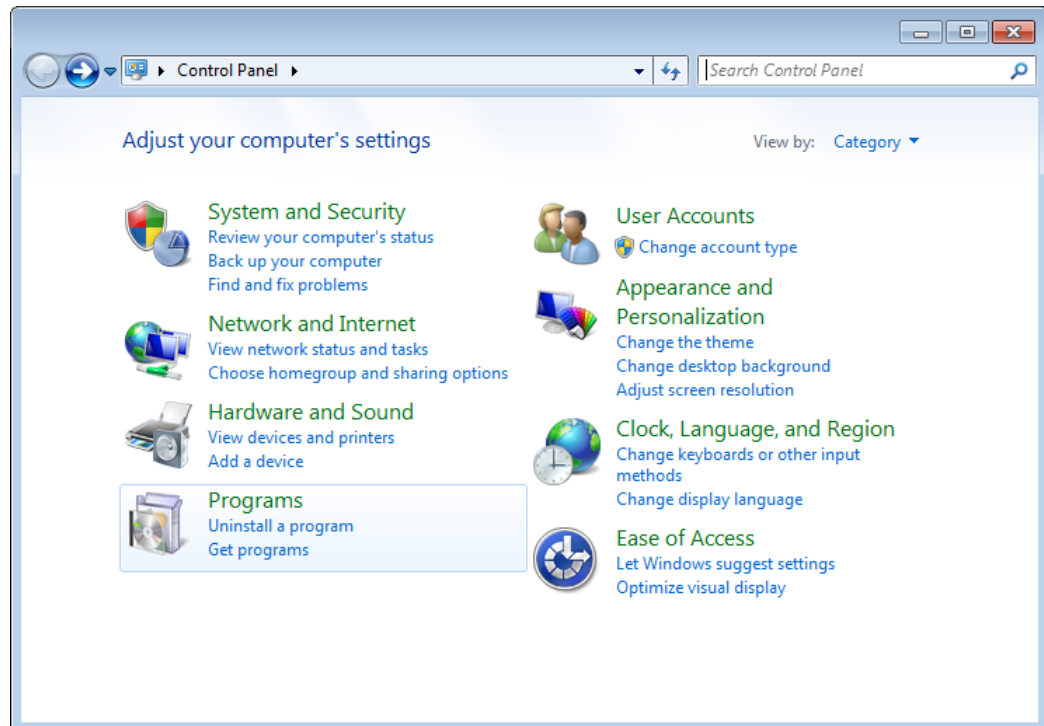


Figure 81: Adjust Your Computer's Settings Window

- In the **Programs** group, click **Uninstall a program**.
- The **Uninstall or change a program** window opens:

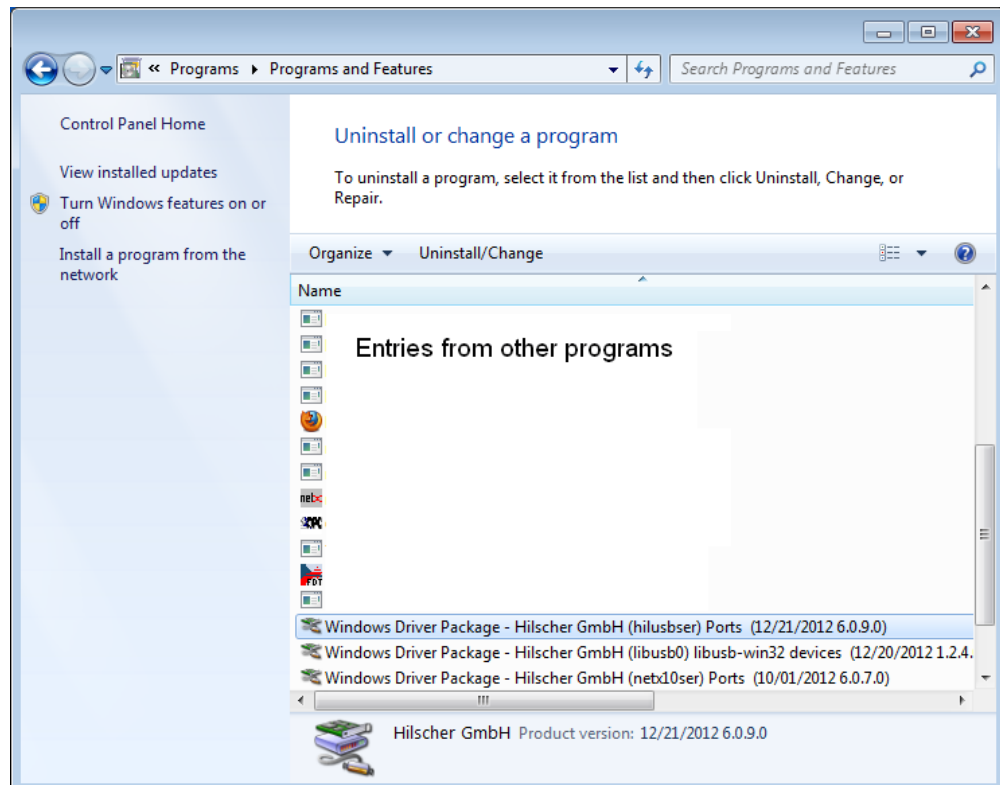


Figure 82: Uninstall or Change a Program

- Select **Windows Driver Package – Hilscher GmbH (hilusbser) Ports** entry.
- Click **Uninstall/Change** button located above the list.
- A security question appears:

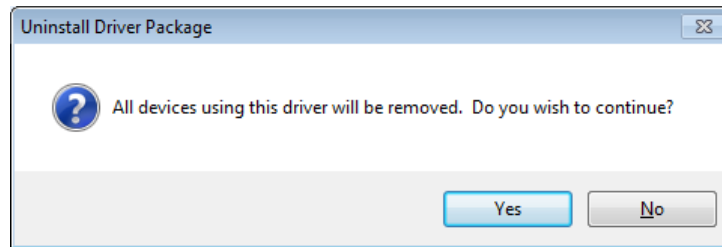


Figure 83: Acknowledge Uninstall

- Click **Yes**.
- The USB driver package is removed from your PC.
- Repeat this procedure for the remaining driver packages **Windows Driver Package – Hilscher GmbH (libusb0) [...] devices** and **Windows Driver Package – Hilscher GmbH (netx10ser) Ports**.

3.3.3 Uninstalling USB Driver under Windows 8

1. Open the **Control Panel**.

➤ In the **Start** screen of Windows 8, right-click on an empty space.

➤ The **All apps** button appears in the lower part of the screen:



Figure 84: All Apps Button

➤ Click **All apps**.

➤ A list featuring all available programs (**Apps**) appears:

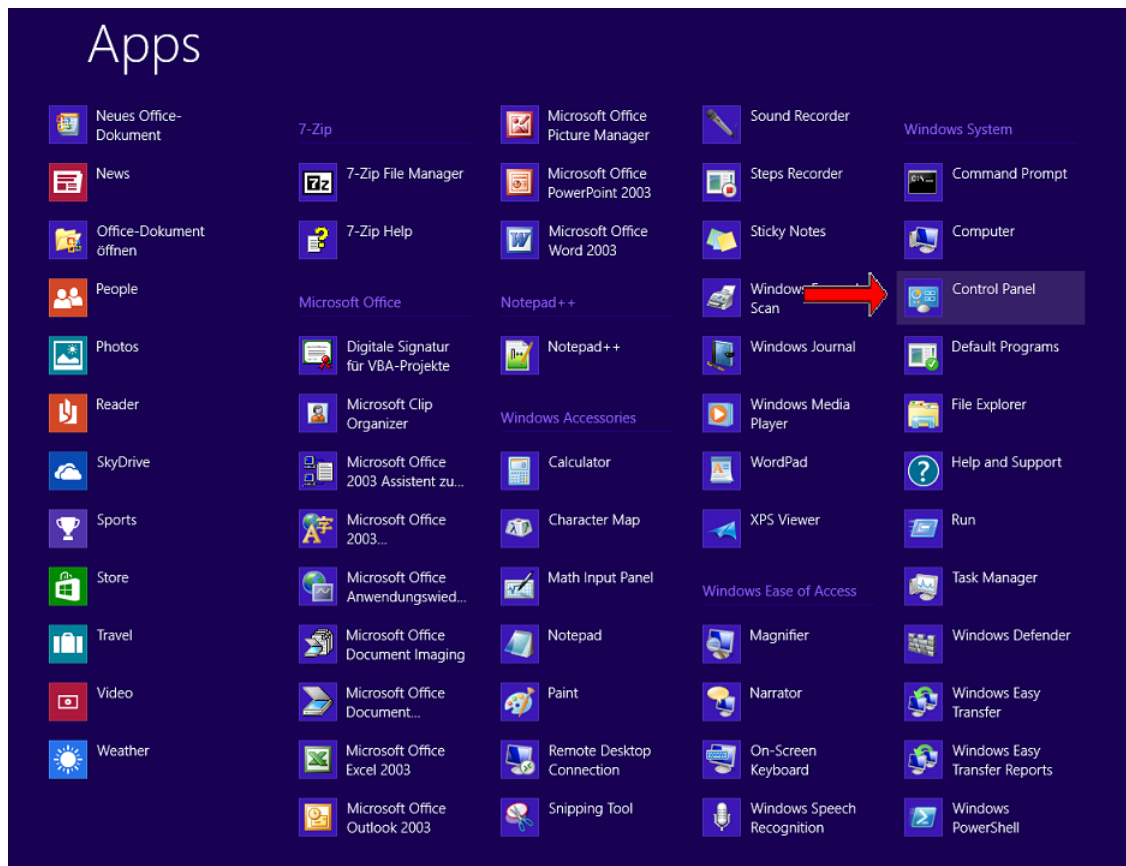


Figure 85: List of Installed Apps in Windows 8

➤ In the **Apps** list, click **Control Panel**.

➤ Windows 8 changes into “desktop mode” and opens the **Control Panel**:

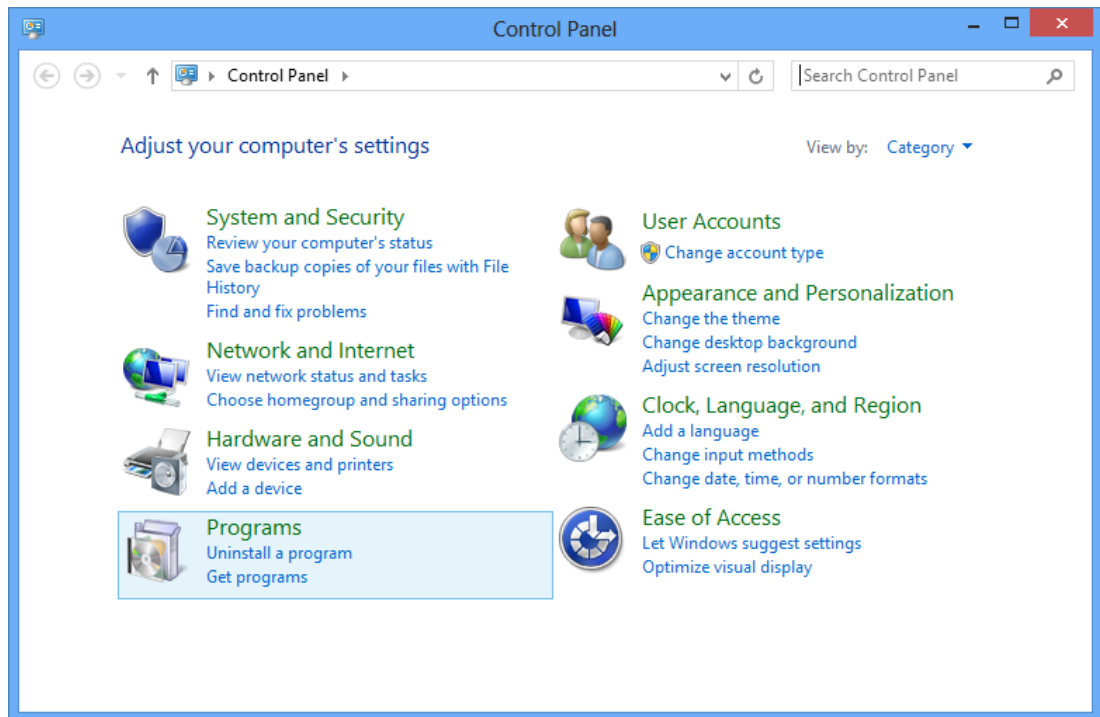


Figure 86: Control Panel

2. Open **Programs and Features** window.

➤ In the **Programs** group of the **Control Panel**, click **Uninstall a program**.

➤ The **Programs and Features** window opens:

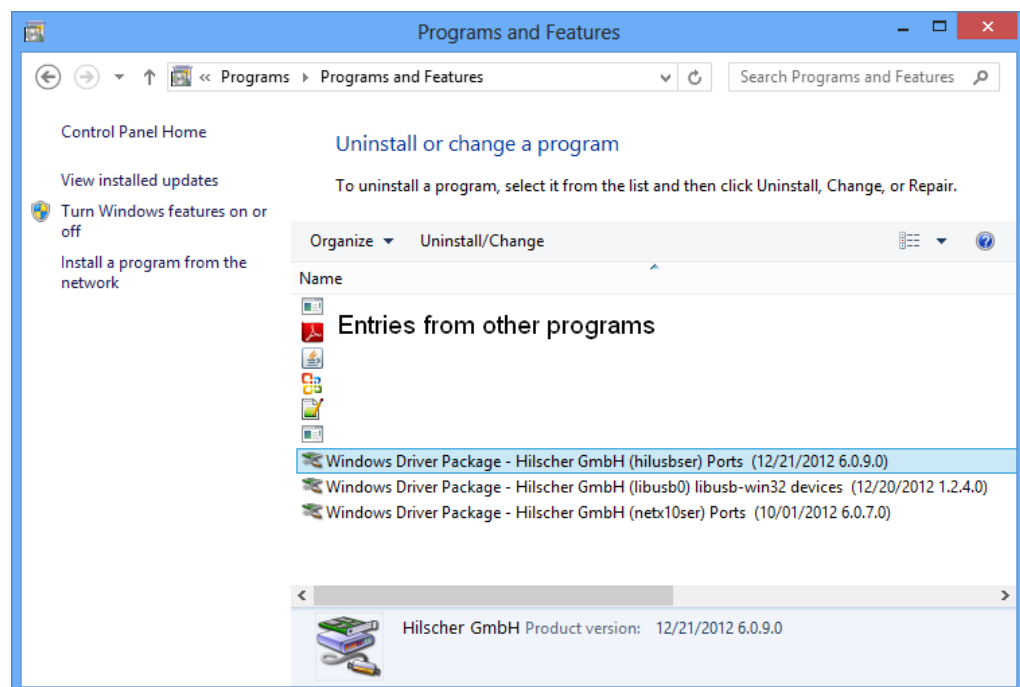


Figure 87: Uninstall or Change a Program

3. Uninstall driver packages.

- Select **Windows Driver Package – Hilscher GmbH (hilusbser) Ports** entry.
- Click **Uninstall/Change** button located above the list.
- A security question appears:

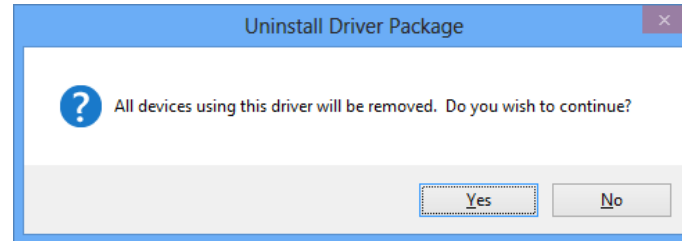


Figure 88: Acknowledge Uninstall

- Click **Yes**.
- The USB driver package is removed from your PC.
- Repeat this procedure for the remaining driver packages **Windows Driver Package – Hilscher GmbH (libusb0) [...] devices** and **Windows Driver Package – Hilscher GmbH (netx10ser) Ports**.

4 SYCON.net

4.1 Overview

With the SYCON.net configuration software, you can configure and diagnose your communication module. You can also use it to download or update the firmware of your module.

If the host system of your communication module runs under a Windows operating system, you can install SYCON.net directly on your host system for the above mentioned purposes. You can also install SYCON.net on a separate configuration PC under Windows, and then connect your communication module via PCI Carrier Board (comX), Evaluation Board (netJACK), USB or serial interface to the configuration PC and SYCON.net.

SYCON.net is delivered on the Communication Solutions DVD. You can start the installation program for SYCON.net (the **SYCON.net for netX InstallShield Wizard**) in the menu of the start screen of the DVD. Instructions for this are provided on the following pages. You can also start the installation by double-clicking the *SYCONnet netX setup.exe* file in the `Software\SYCON.net` directory of the Communication Solutions DVD.

The installation program contains all components needed for the installation under Windows XP, Windows Vista, Windows 7 and Windows 8.

Please note the following:

- If SYCON.net shall access the communication module via host interface or PC bus, you need to install the *cifX Device Driver* on your host system or configuration PC. See *cifX Device Driver* chapter on page 9.
- If SYCON.net shall access the communication module via USB, you need to install the *USB Driver* on your host system or configuration PC. See *USB Driver* chapter on page 42.
- You need administrator rights for installing or uninstalling SYCON.net on your operating system.
- If an older version of SYCON.net is already installed on your system, uninstall it first, before you install the new version. See *Uninstalling SYCON.net* section on page 86.

4.2 System Requirements

To install and use SYCON.net, the following requirements must be met:

- PC with 1 GHz processor or higher
- Windows® XP SP3, Windows® Vista (32 bit) SP2, Windows® 7 (32 bit) SP1, Windows® 7 (64 bit) SP1, Windows® 8 (32 bit) or Windows® 8 (64 bit)
- Administrator privilege required for installation
- Internet Explorer 5.5 or higher
- Free disk space: min. 400 MByte
- DVD ROM drive
- RAM: min. 512 MByte, recommended 1024 MByte
- Graphic resolution: min. 1024 x 768 pixel
- Keyboard and Mouse
- USB, serial or Ethernet interface



Note: If the project file is saved and opened again or if it is used on another PC, the system requirements must match. Particularly the DTM must be installed on the used PC.

Restriction

Touch screen is not supported.

4.3 Installing SYCON.net

4.3.1 Installing SYCON.net under Windows XP

1. Start the SYCON.net installation program.
 - Close all application programs and insert the Communication Solutions DVD into the local DVD-ROM drive.
 - The start screen of the Communication Solutions DVD is displayed:



Figure 89: Start Screen Communication Solutions – Install SYCON.net

- Click on **Install SYCON.net Configuration Software**.



Note: As an alternative, you can also start the SYCON.net installation program (i. e. the **SYCON.net for netX InstallShield Wizard**) by double-clicking the *SYCONnet netX setup.exe* file in the *Software\SYCON.net* directory on the Communication Solutions DVD.

- The SYCON.net installation program is started.

2. Choose language for the setup.



Figure 90: SYCON.net Setup Language

- Select the language for the setup.

- Click **OK**.
- The **SYCON.net for netX InstallShield Wizard** opens:

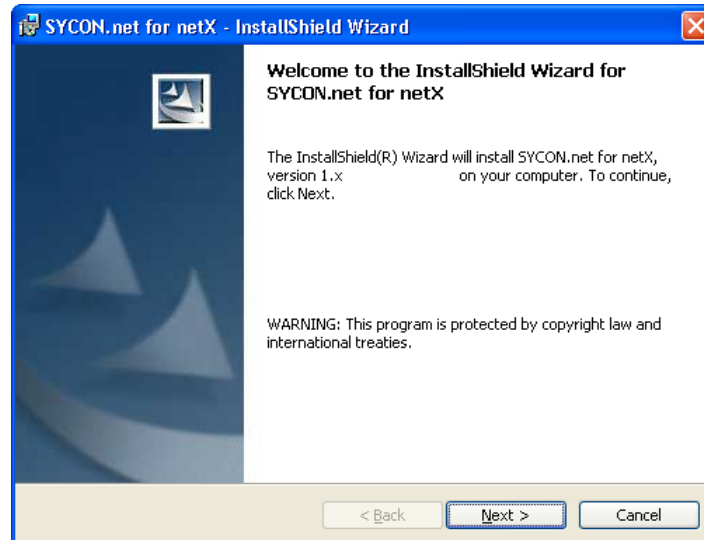


Figure 91: SYCON.net Installation Program

- Click **Next**.

3. Read the notes about major changes in SYCON.net.

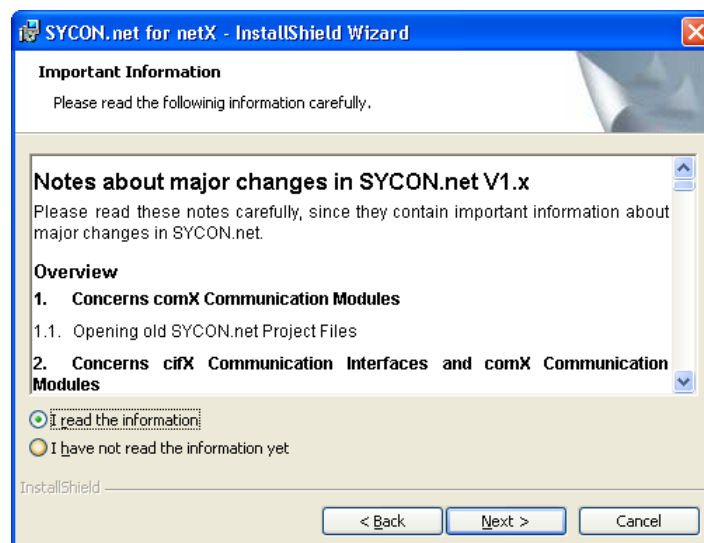


Figure 92: Notes About Major Changes in SYCON.net

- Read the notes about major changes in SYCON.net carefully.
- Select **I read the information** after you have read them.
- Click **Next**.

4. Accept license agreement.

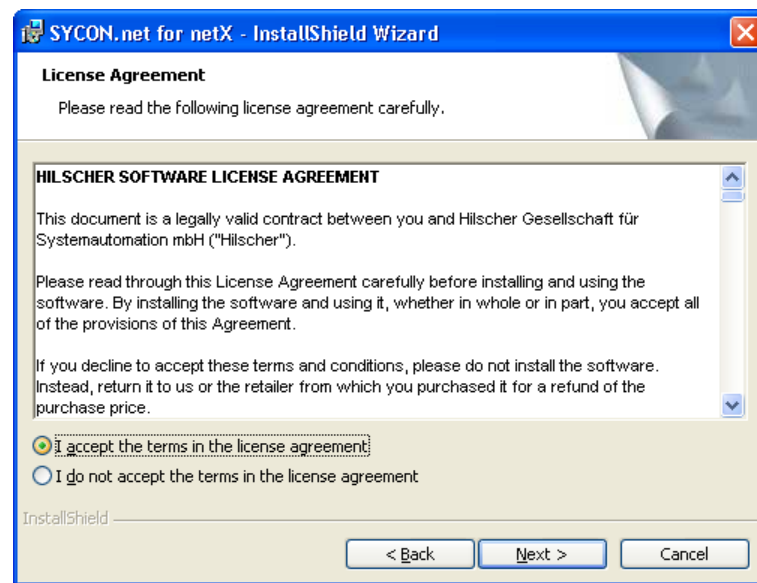


Figure 93: SYCON.net License Agreement

- Select **I accept the terms in the license agreement**, if you agree to it.
- Click **Next**.

5. Enter user information.

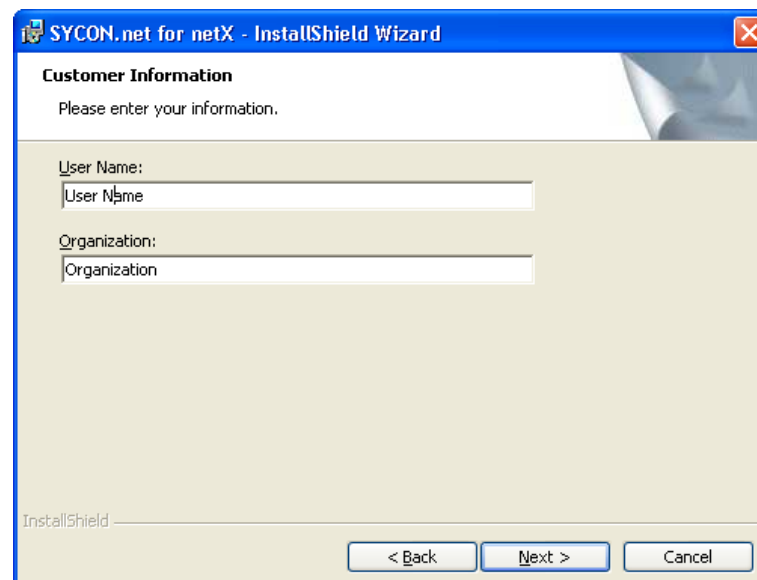


Figure 94: SYCON.net Customer Information

- Enter the user name and the name of the organization.
- Click **Next**.

6. Select setup type.

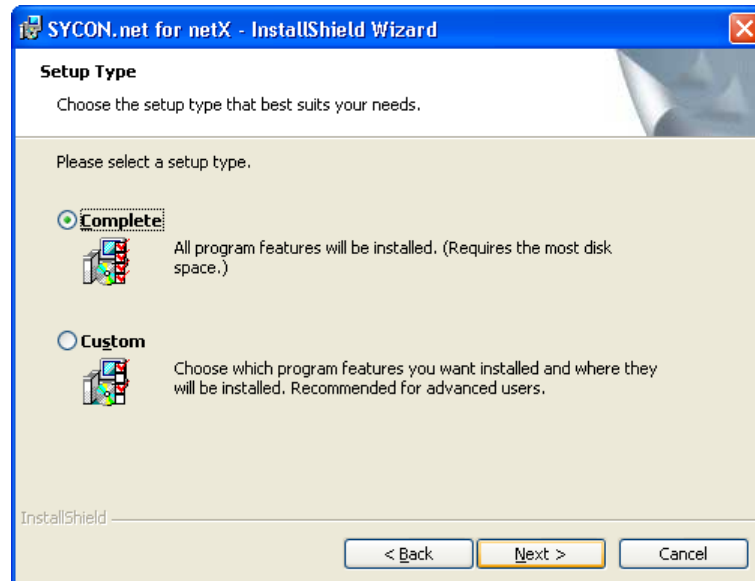


Figure 95: SYCON.net Setup Type

- Select **Complete** if you want to install the complete software.
- Click **Next**.

7. Install SYCON.net.

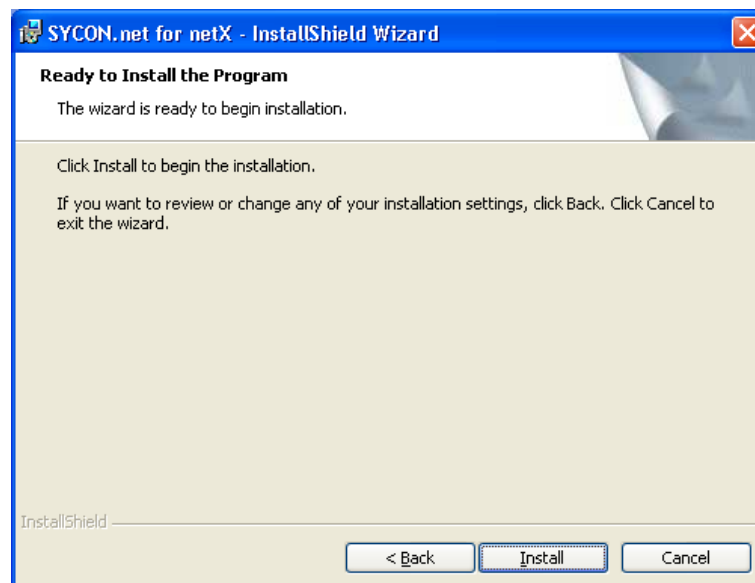


Figure 96: Start SYCON.net Installation

- Click **Install** to start the installation.

- The components are being installed. This may take several minutes.

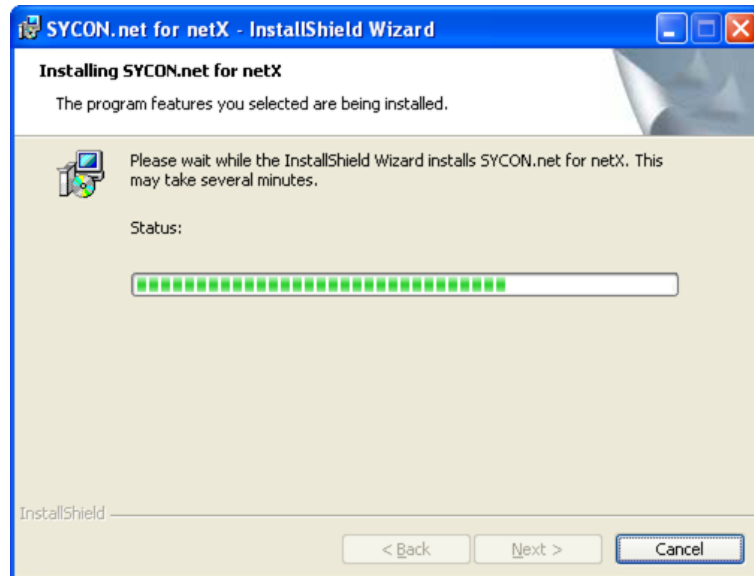


Figure 97: SYCON.net Installation Status

8. Finish Installation.

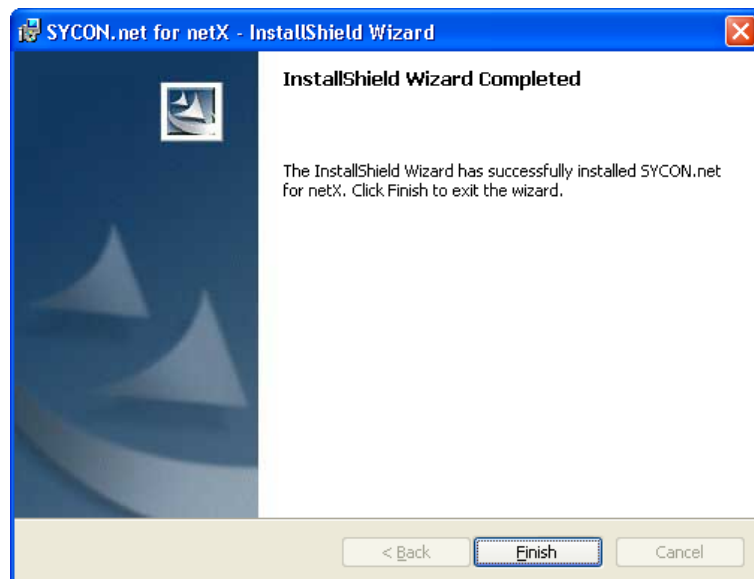


Figure 98: Finish SYCON.net Installation

- Click **Finish** to complete the installation.
- SYCON.net is installed and can be started in the **Start** menu of Windows by choosing **All Programs > SYCON.net System Configurator > SYCON.net**.

4.3.2 Installing SYCON.net under Windows 7

1. Start the SYCON.net installation program.
 - Close all application programs and insert the Communication Solutions DVD into the local DVD-ROM drive.
 - The start screen of the Communication Solutions DVD is displayed:



Figure 99: Start Screen Communication Solutions – Install SYCON.net

- Click on **Install SYCON.net Configuration Software**.



Note: As an alternative, you can also start the SYCON.net installation program (i. e. the **SYCON.net for netX InstallShield Wizard**) by double-clicking the *SYCONnet netX setup.exe* file in the `Software\SYCON.net` directory on the Communication Solutions DVD. You can reduce the number of Windows security questions by right-clicking on the *SYCONnet netX setup.exe* file and choosing **Run as administrator** from the context menu.

- The SYCON.net installation program is started.

2. Choose language for the setup.

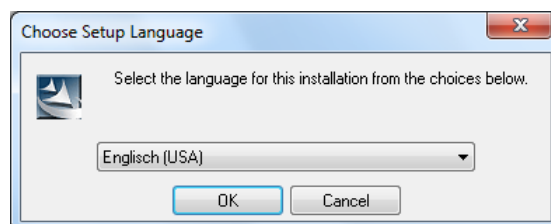


Figure 100: SYCON.net Setup Language

- Select the language for the setup.
- Click **OK**.
- The **SYCON.net for netX InstallShield Wizard** opens:

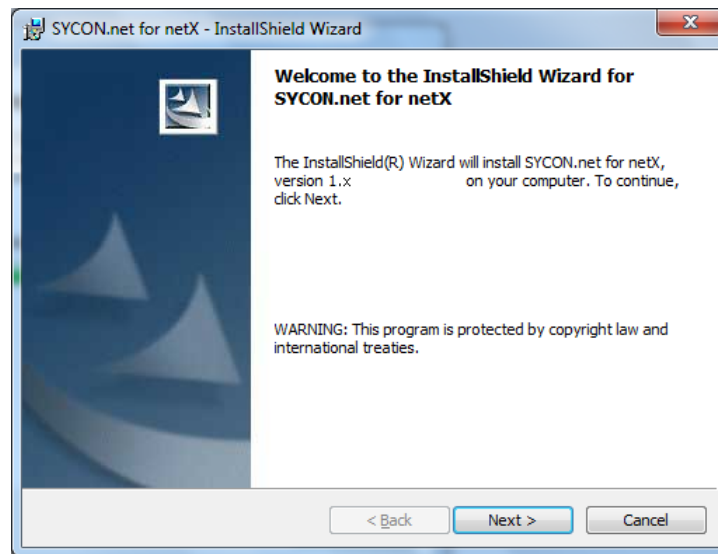


Figure 101: SYCON.net Installation Information

- Click **Next**.
3. Read the notes about major changes in SYCON.net.

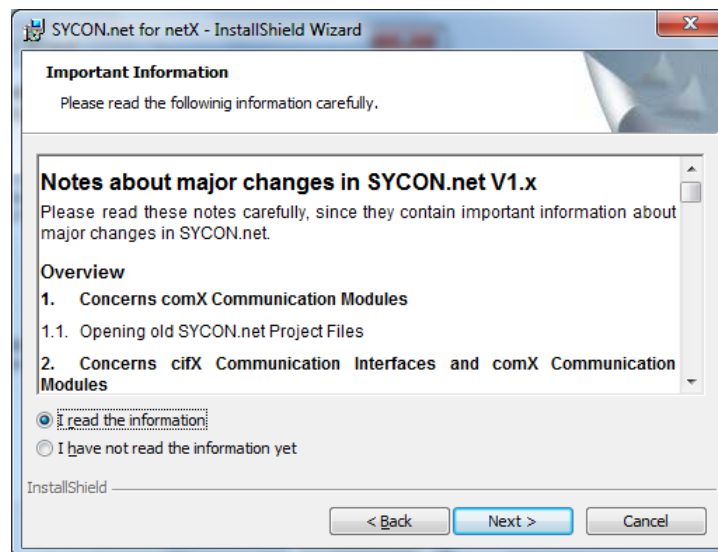


Figure 102: Notes about Major Changes in SYCON.net

- Read the notes about major changes in SYCON.net carefully.
- Select **I read the information**, after you have read them.
- Click **Next**.

4. Accept license agreement.



Figure 103: SYCON.net License Agreement

- Select **I accept the terms in the license agreement**, if you agree to it.
- Click **Next**.

5. Enter user information.

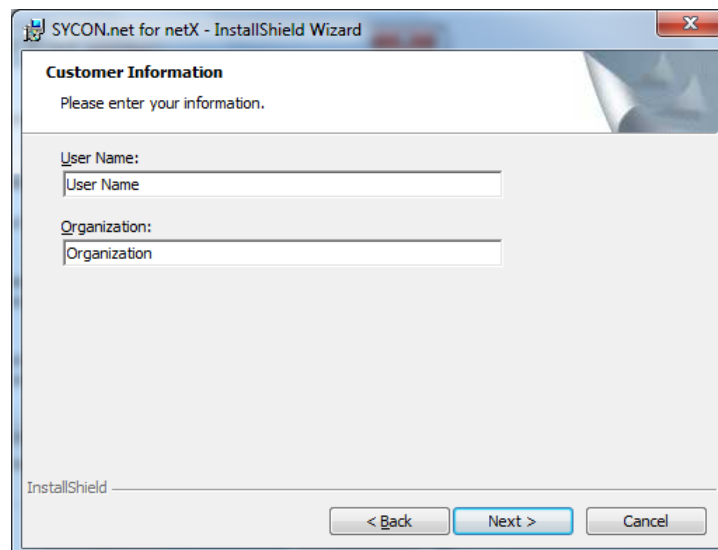


Figure 104: SYCON.net Customer Information

- Enter the user name and the name of the organization.
- Click **Next**.

6. Select setup type.

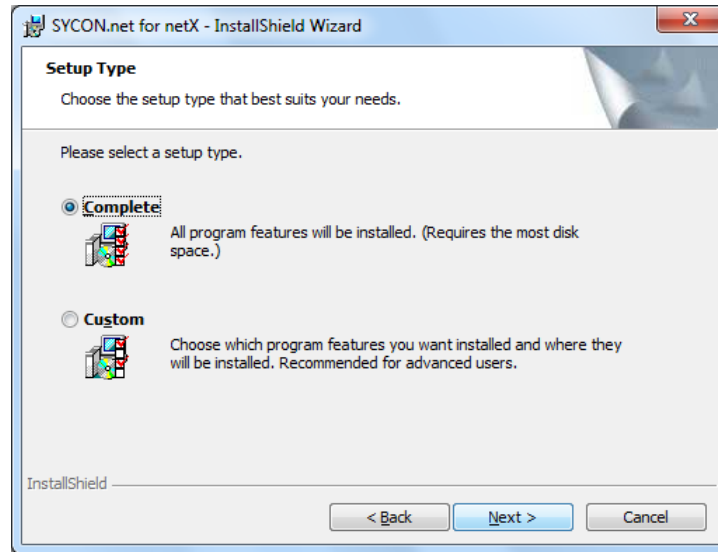


Figure 105: SYCON.net Setup Type

- Select **Complete** if you want to install the complete software.
- Click **Next**.

7. Install SYCON.net.

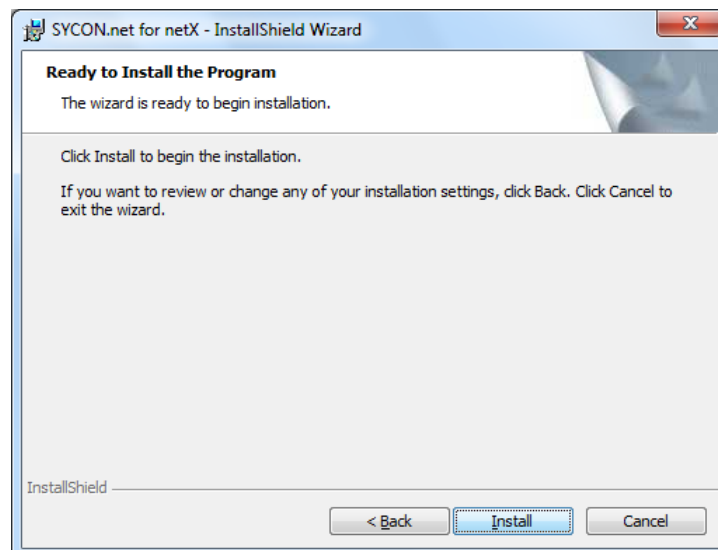


Figure 106: Start SYCON.net Installation

- Click **Install** to start the installation.

- The components are being installed. This may take several minutes.

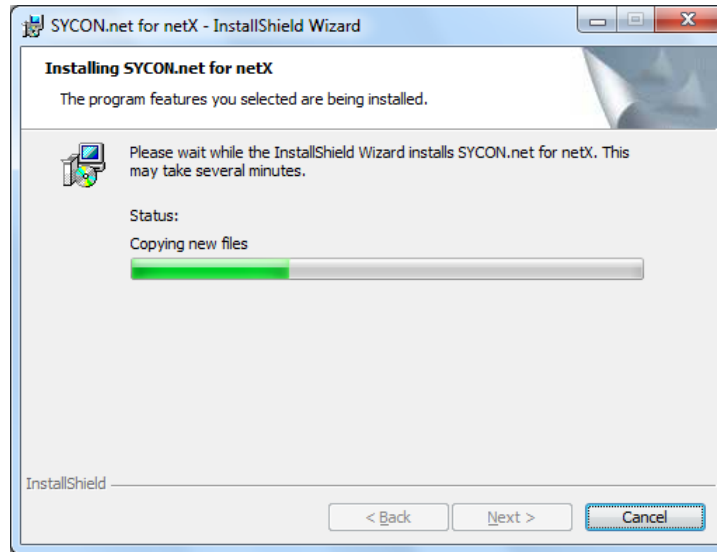


Figure 107: SYCON.net Installation Status

8. Finish Installation.

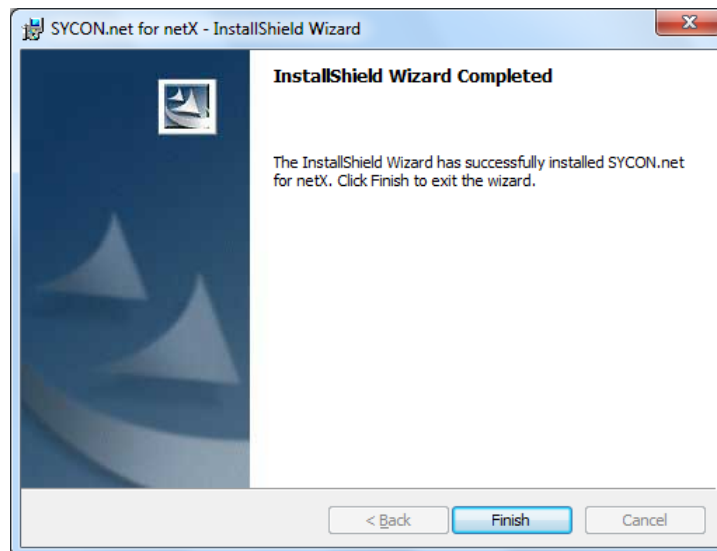


Figure 108: Finish SYCON.net Installation

- Click **Finish** to complete the installation.
- SYCON.net is installed and can be started in the **Start** menu of Windows by choosing **All Programs > SYCON.net System Configurator > SYCON.net**.

4.3.3 Installing SYCON.net under Windows 8

1. Start the SYCON.net installation program.
 - Close all application programs and insert the Communication Solutions DVD into the local DVD-ROM drive.
 - The start screen of the Communication Solutions DVD is displayed:



Figure 109: Start Screen Communication Solutions – Install SYCON.net

- Click on **Install SYCON.net Configuration Software**.



Note: As an alternative, you can also start the SYCON.net installation program (i. e. the **SYCON.net for netX InstallShield Wizard**) by double-clicking the *SYCONnet netX setup.exe* file in the `Software\SYCON.net` directory on the Communication Solutions DVD. You can reduce the number of Windows security questions by right-clicking on the *SYCONnet netX setup.exe* file and choosing **Run as administrator** from the context menu.

- The SYCON.net installation program is started.

2. Choose language for the setup.

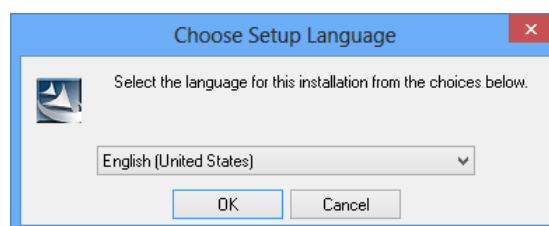


Figure 110: SYCON.net Setup Language

- Select the language for the setup.
- Click **OK**.
- The **SYCON.net for netX InstallShield Wizard** opens:

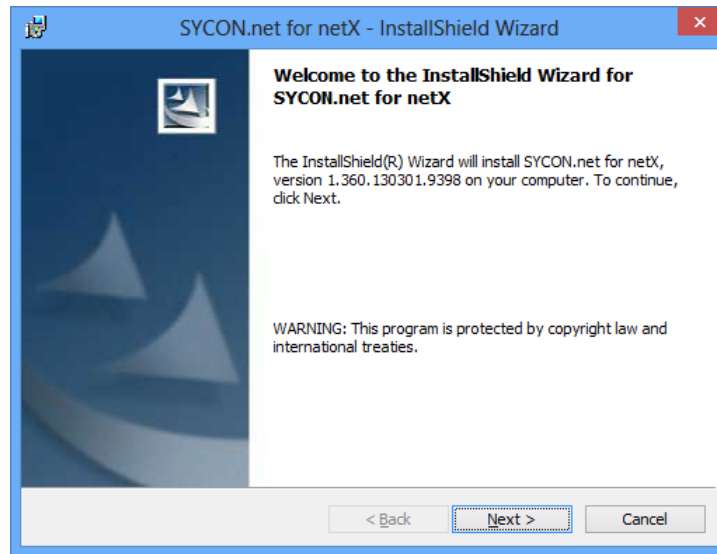


Figure 111: SYCON.net Installation Information

- Click **Next**.
3. Read the notes about major changes in SYCON.net.

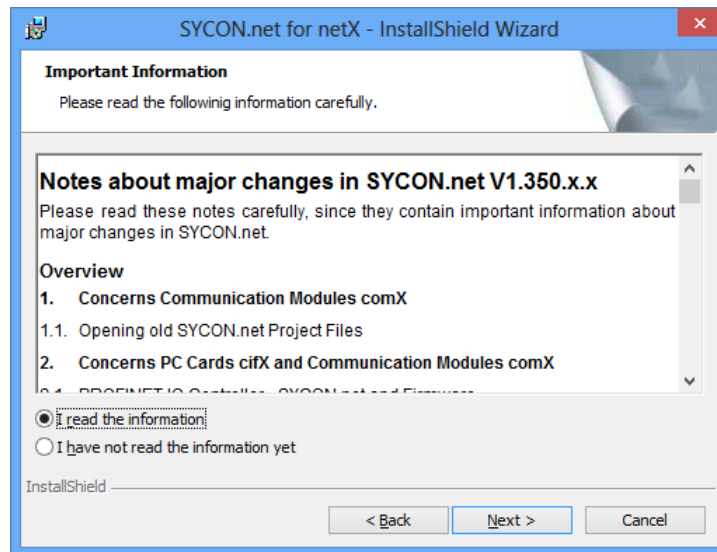


Figure 112: Notes about Major Changes in SYCON.net

- Read the notes about major changes in SYCON.net carefully.
- Select **I read the information**, after you have read them.
- Click **Next**.

4. Accept license agreement.

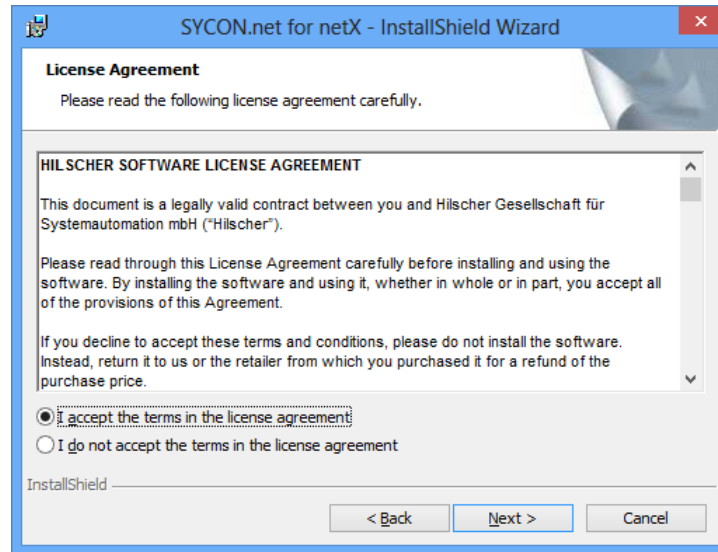


Figure 113: SYCON.net License Agreement

- Select **I accept the terms in the license agreement**, if you agree to it.
- Click **Next**.

5. Enter user information.

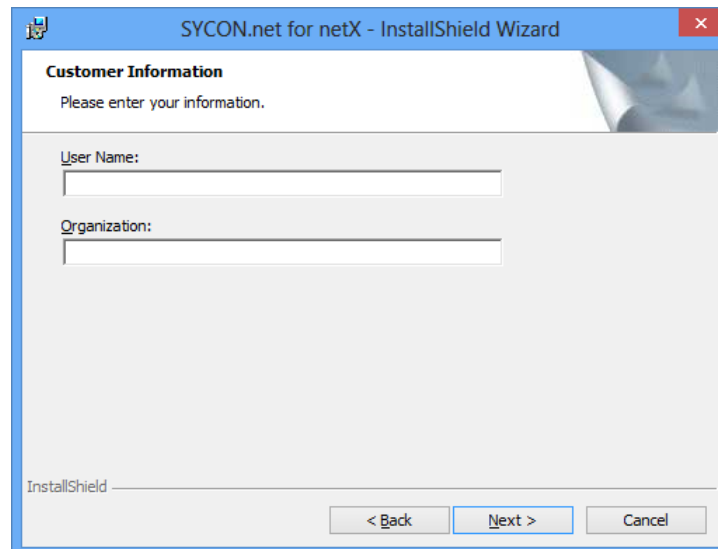


Figure 114: SYCON.net Customer Information

- Enter the user name and the name of the organization.
- Click **Next**.

6. Select setup type.

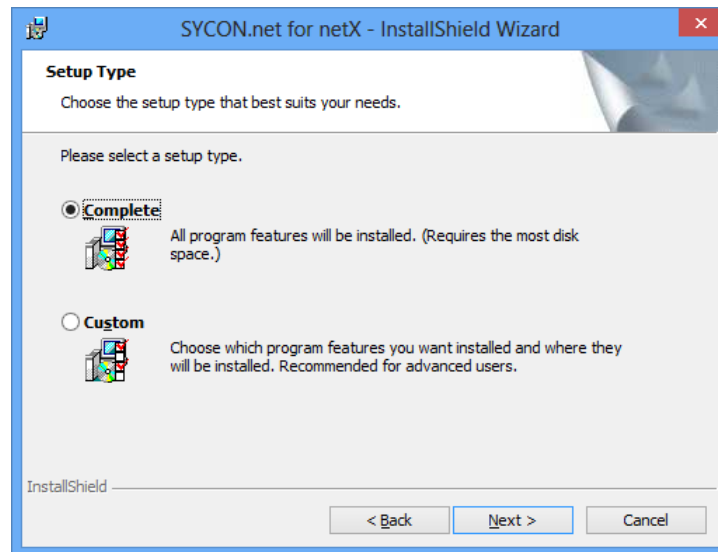


Figure 115: SYCON.net Setup Type

- Select **Complete** if you want to install the complete software.
- Click **Next**.

7. Install SYCON.net.

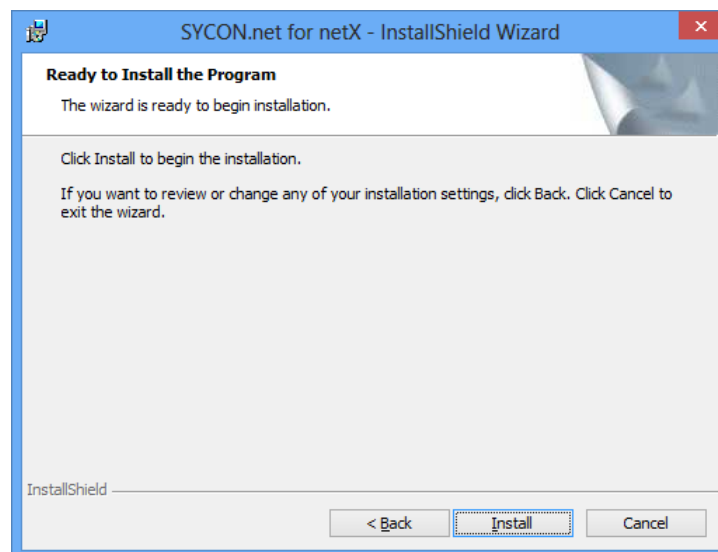


Figure 116: Start SYCON.net Installation

- Click **Install** to start the installation.

➤ The components are being installed. This may take several minutes.

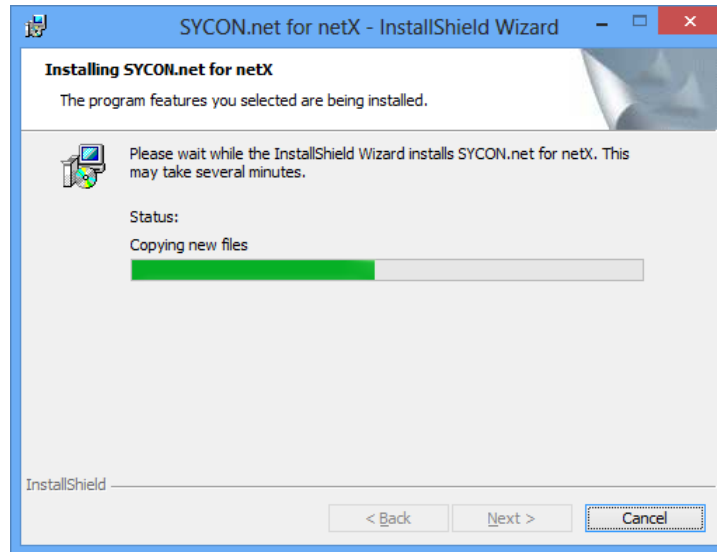


Figure 117: SYCON.net Installation Status

8. Finish Installation.

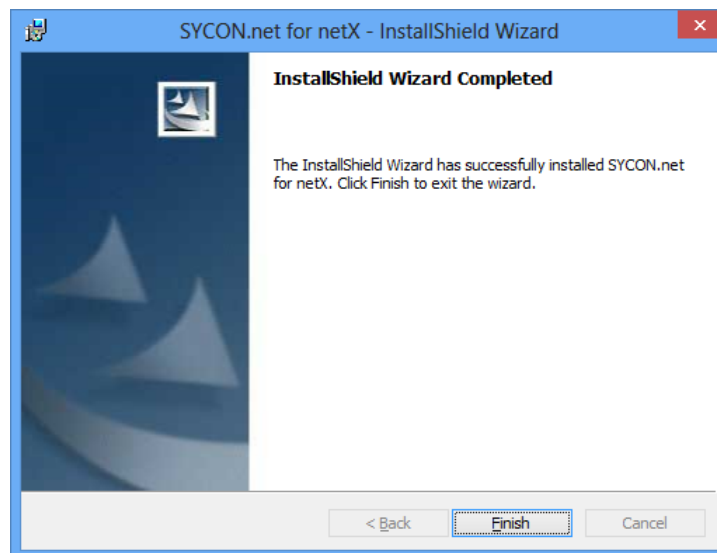


Figure 118: Finish SYCON.net Installation

- Click **Finish**, to complete the installation.
- SYCON.net has been installed.



Note: To start SYCON.net, use the Windows key to change from the desktop mode to the start screen of Windows 8. In the start screen, click on the **SYCON.net** tile. If the tile is not displayed, right-click on an empty space, then click on the **All Apps** button appearing in the lower part of the start screen. A list featuring all available programs (**Apps**) opens. In this list, **SYCON.net** is shown below **SYCON.net System Configurator** and can be started by double-click.

4.4 Uninstalling SYCON.net

4.4.1 Uninstalling SYCON.net under Windows XP



Note: Files and folders added by the user will not be deleted by the SYCON.net uninstall procedure.

- Close all application programs.
- In the **Start** menu of Windows, choose **Control Panel**.
- The **Control Panel** opens:

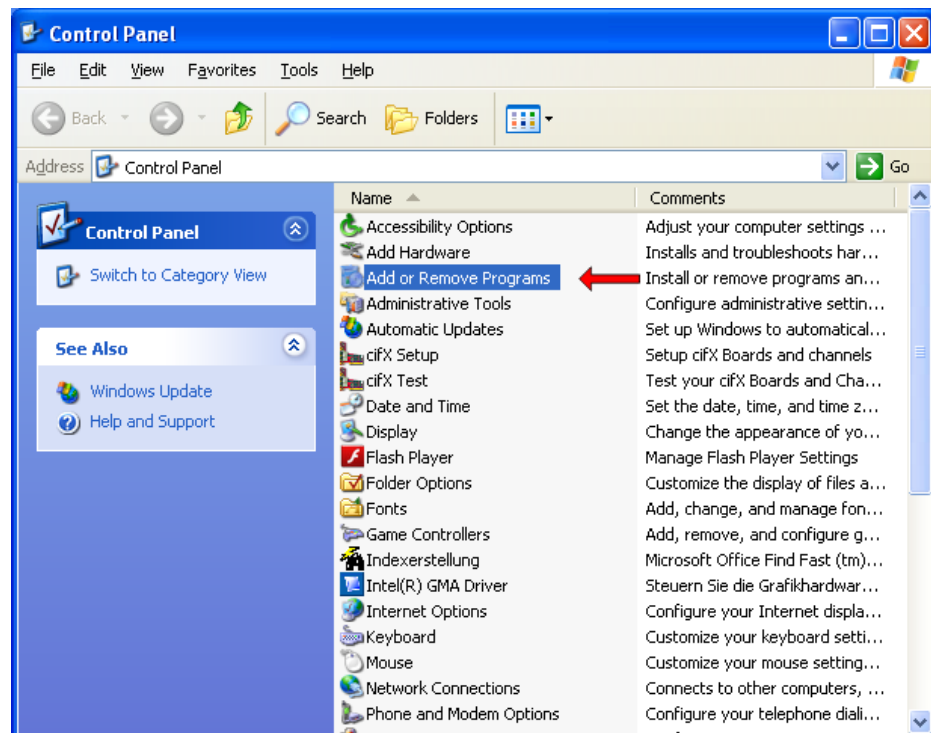


Figure 119: Control Panel

- In the **Control Panel**, double-click **Add or Remove Programs**.

➤ The **Add or Remove Programs** window opens:

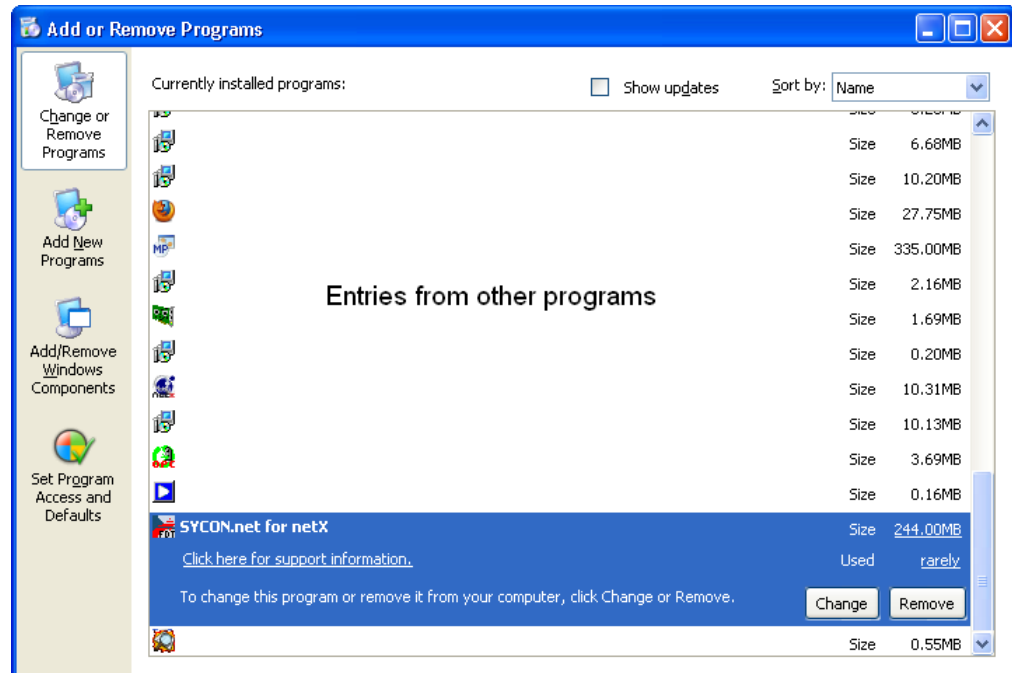


Figure 120: Add or Remove Programs

- Select **SYCON.net for netX** entry.
- Click **Remove**.
- A confirmation request appears:

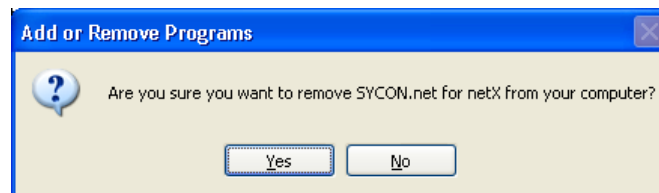


Figure 121: Confirmation Dialog

- Click **Yes**.
- SYCON.net is being uninstalled from your host system or PC.

4.4.2 Uninstalling SYCON.net under Windows 7



Note: Files and folders added by the user will not be deleted by the SYCON.net uninstall procedure.

- Close all application programs.
- In the **Start** menu of Windows 7, select **Control Panel**.
- The **Adjust your computer's settings** window opens:



Figure 122: Adjust Your Computer's Settings Window

- In the **Programs** group, click **Uninstall a program**.

➤ The **Uninstall or change a program** window opens:

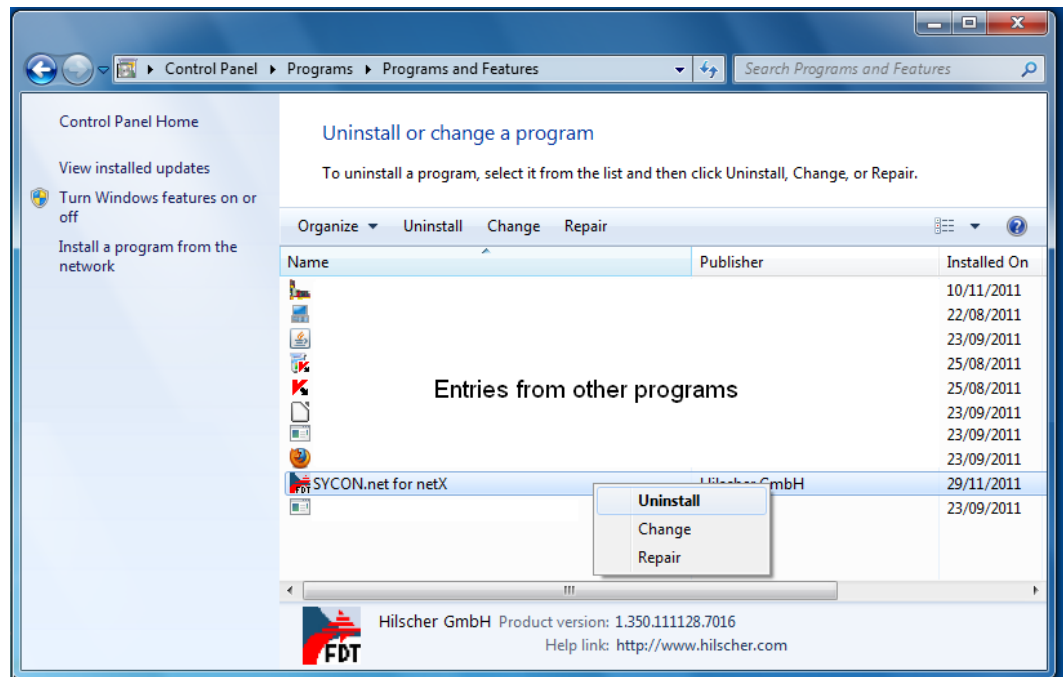


Figure 123: Uninstall or Change a Program Window

- Right-click on the **SYCON.net for netX** entry and choose **Uninstall** from the context menu.
- A confirmation request appears:

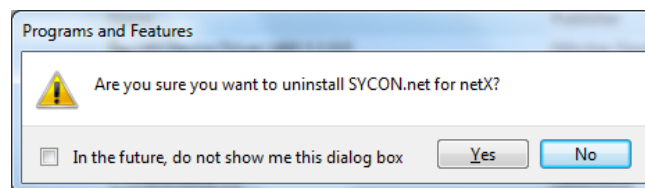


Figure 124: Confirmation Dialog

- Click **Yes**.
- SYCON.net is being uninstalled from your host system or PC.

4.4.3 Uninstalling SYCON.net under Windows 8



Note: Files and folders added by the user will not be deleted by the SYCON.net uninstall procedure.

- In the **Start** screen of Windows 8, right-click on an empty space.
- The **All apps** button appears in the lower part of the screen:

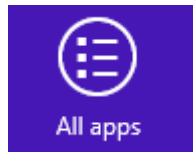


Figure 125: All Apps Button

- Click **All apps**.
- A list featuring all available programs (**Apps**) appears:

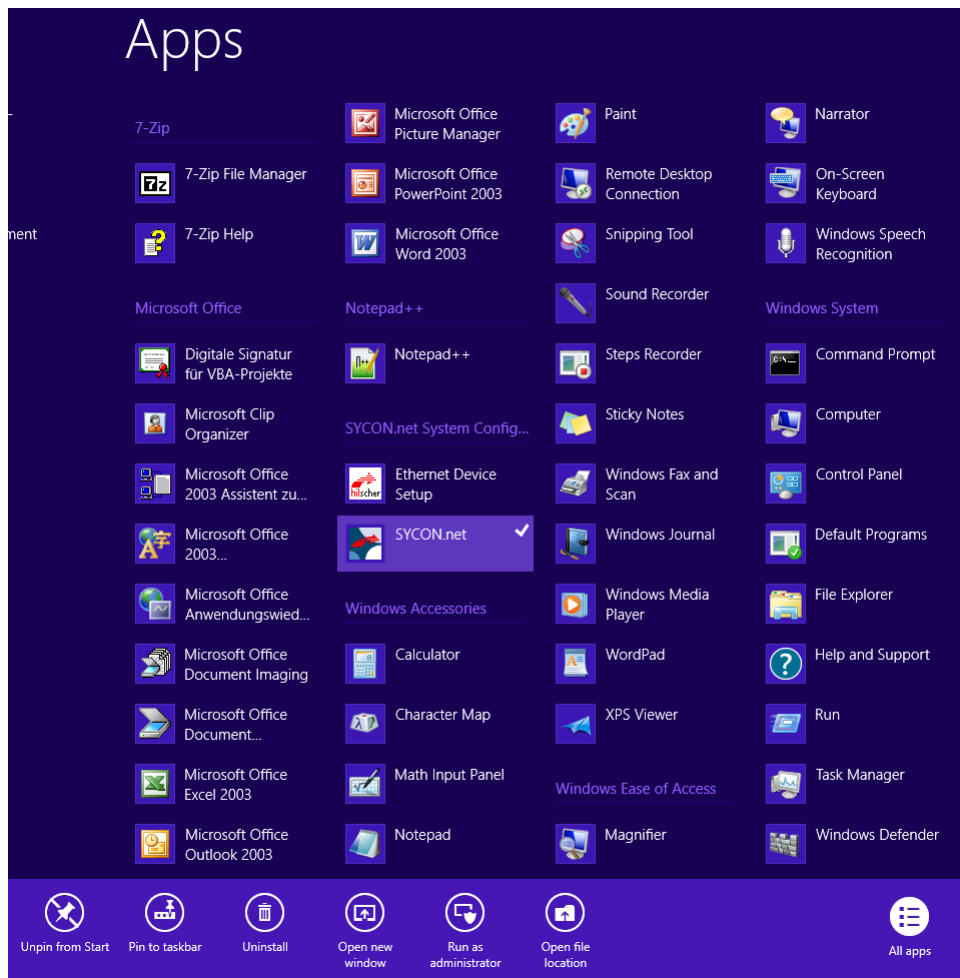


Figure 126: List of Installed Apps in Windows 8

- In the **Apps** list, right-click the **SYCON.net** entry.
- The context menu opens in the lower part of the screen.
- In the context menu, click **Uninstall**.

- Windows 8 changes into “desktop mode” and opens the **Programs and Features** window:

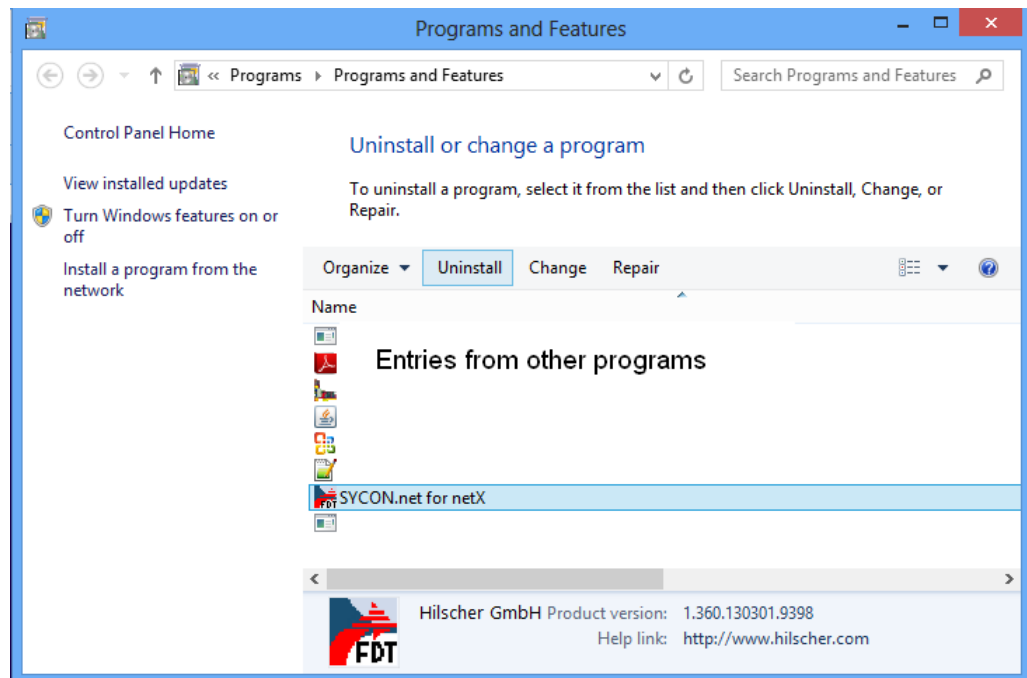


Figure 127: Uninstall or Change a Program Window

- Select **SYCON.net for netX** entry.
- Above the list, click **Uninstall**.
- A security question appears:

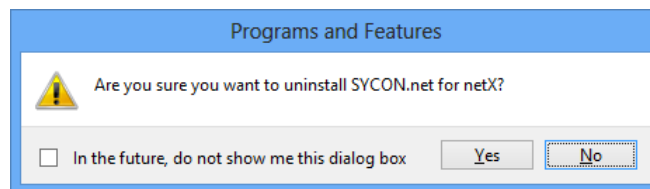


Figure 128: Acknowledge Uninstall

- Click **Yes**.

- If the **ODM Tray** (which is a feature of the SYCON.net installation) is still active, the following window opens:

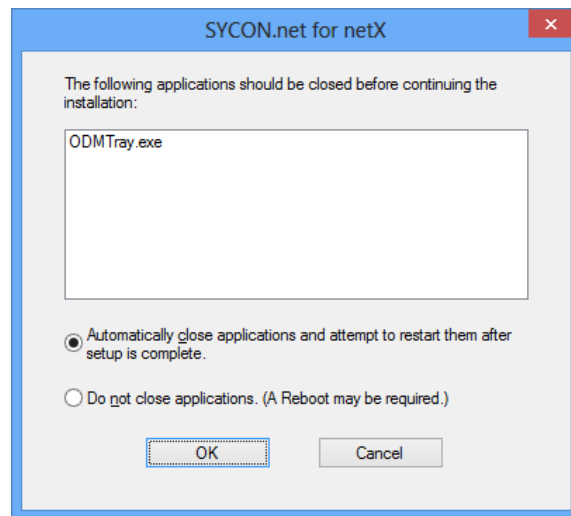


Figure 129: Close ODMTray Dialog

- Choose **Automatically close applications and attempt to restart them after setup is complete** option, then click **OK**.
- SYCON.net is being uninstalled from your host system or PC.

5 netX Configuration Tool

5.1 Overview

With the netX Configuration Tool, you can configure or diagnose your communication module. You can also use it to download or update the firmware of your module. Note, however, that the tool can be used only for slave devices, for master devices you have to use SYCON.net.

If the host system of your communication module runs under a Windows operating system, you can install the netX Configuration Tool on your host system for the above mentioned purposes. You can also install the tool on a separate configuration PC under Windows, and then connect your communication module via PCI Carrier Board (comX), Evaluation Board (netJACK), USB or serial interface to the configuration PC and the netX Configuration Tool.

The netX Configuration Tool is delivered on the Communication Solutions DVD. You can start the installation program for the tool (the **netX Configuration Tool Setup Wizard**) in the menu of the start screen of the DVD. Instructions for this are provided on the following pages. You can also start the installation program by double-clicking the *netXConfigurationUtility_Setup.exe* file in the `Software\Slave Configuration Tool` directory of the Communication Solutions DVD.

The setup program contains all components needed for the installation under Windows XP, Windows Vista, Windows 7 and Windows 8.

Please note the following:

- If the netX Configuration Tool shall access the communication module via host interface or PC bus, you need to install the *cifX Device Driver* on your host system or configuration PC. See chapter *cifX Device Driver* on page 9.
- If the netX Configuration Tool shall access the communication module via USB, you need to install the *USB Driver* on your host system or configuration PC. See chapter *USB Driver* on page 42.
- You need administrator rights for installing or uninstalling the netX Configuration Tool on your operating system.
- If an older version of the netX Configuration Tool is already installed on your system, uninstall it first before you install the new version.
- A description of the user interface of the netX Configuration Tool and information on how to use this tool to configure or diagnose slave devices is provided in the operating instruction manual *netX Configuration Tool for cifX, comX and netJACK – Configuration of Real Time Ethernet and Fieldbus Devices*, DOC1102050IxxEN, stored on the Communication Solutions DVD.

The netX Configuration Tool is equipped with an online help, which can be started by clicking the **Help** button or pressing the **F1** key.

5.2 Installing netX Configuration Tool

5.2.1 Installing netX Configuration Tool under Windows XP

1. Start the netX Configuration Tool installation program.
 - Close all application programs and insert the Communication Solutions DVD into the local DVD-ROM drive.
 - The start screen of the Communication Solutions DVD is displayed:



Figure 130: Start Screen Communication Solutions – Install netX Configuration Tool

- In the menu, choose **Drivers, Software and Tools > Install Slave Configuration Software**.



Note: As an alternative, you can also start the installation program (i. e. the **netX Configuration Tool Setup Wizard**) by double-clicking the `netXConfigurationUtility_Setup.exe` file in the `Software\Slave Configuration Tool` directory on the Communication Solutions DVD.

➤ The **netX Configuration Tool Setup Wizard** is started:

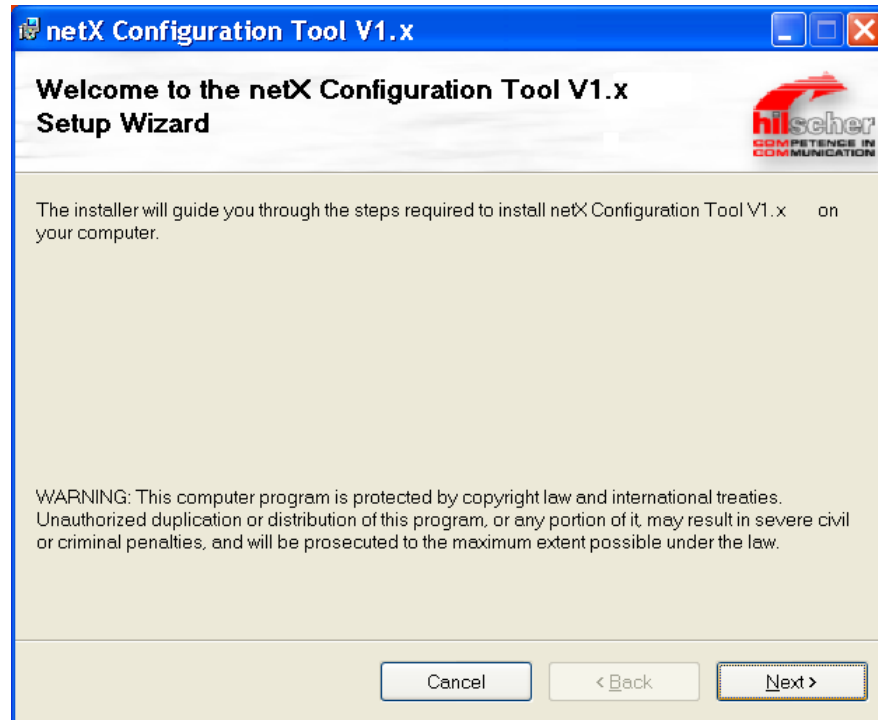


Figure 131: netX Configuration Tool Setup Wizard

➤ Click **Next**.

2. Choose Installation options.

➤ The **Select Installation Folder** window is displayed:

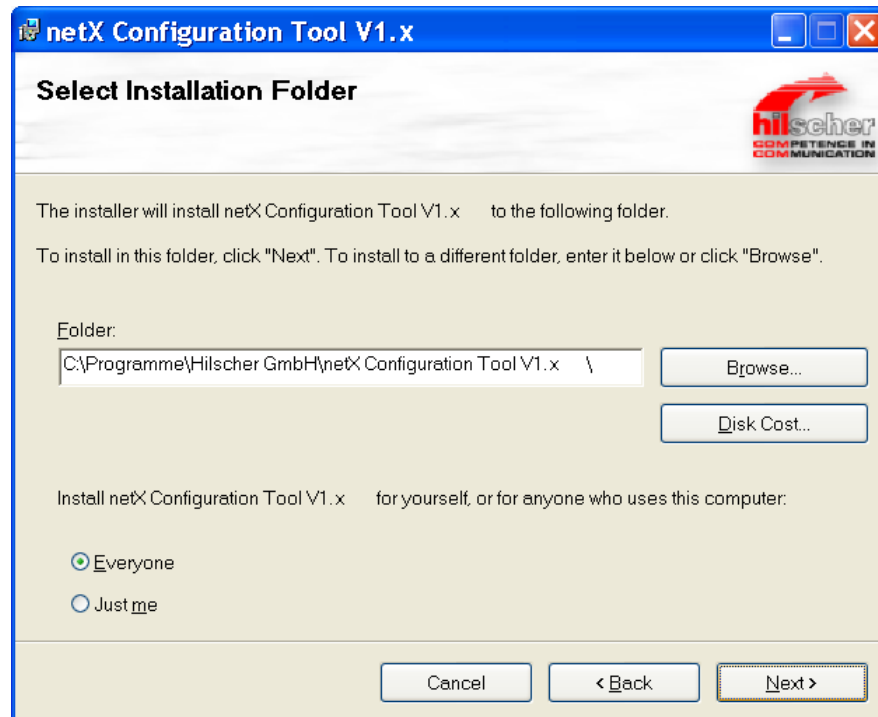


Figure 132: netX Configuration Tool Setup Wizard – Installation Options

- If you accept the suggested standard installation directory, click **Next**. If you prefer a different directory, enter the path directly in the **Folder** field or click **Browse** to open the **Browse for Folder** dialog, in which you can select a different directory.
- If you want to check which drive provides the required space for the installation, click **Disk Cost...**
- If you want to restrict access to the netX Configuration Tool to your login, click **Just me** option.
- Click **Next**.

3. Start the installation.

- The **Confirm Installation** window is displayed:

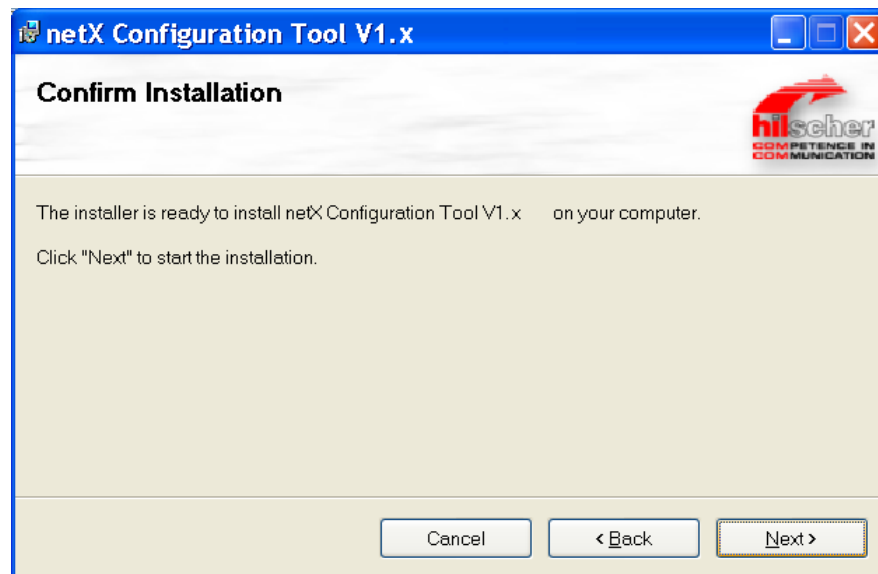


Figure 133: netX Configuration Tool Setup Wizard – Confirm Installation

- Click **Next** to start the installation.
- netX Configuration Tool is being installed.

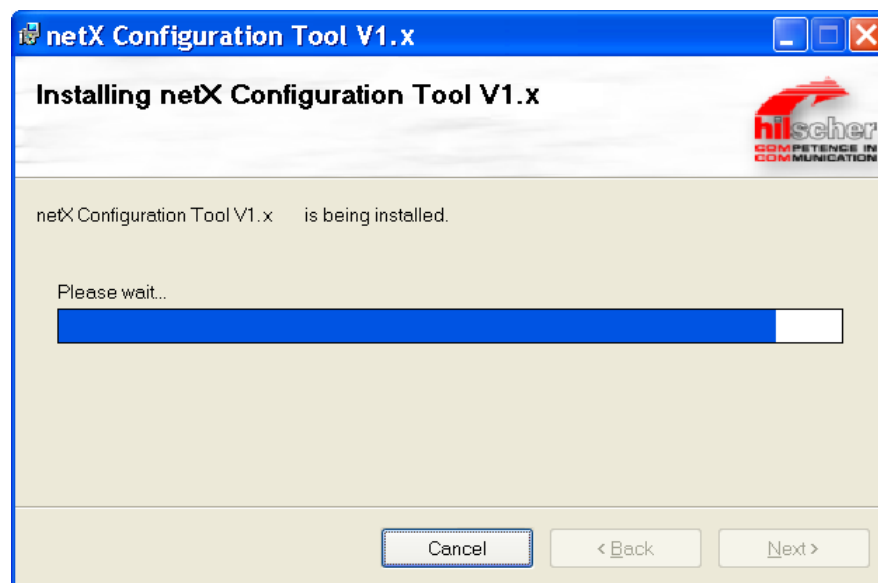


Figure 134: netX Configuration Tool Setup Wizard – Installation in Progress

4. Finish installation.

➤ The **Installation Complete** window appears:

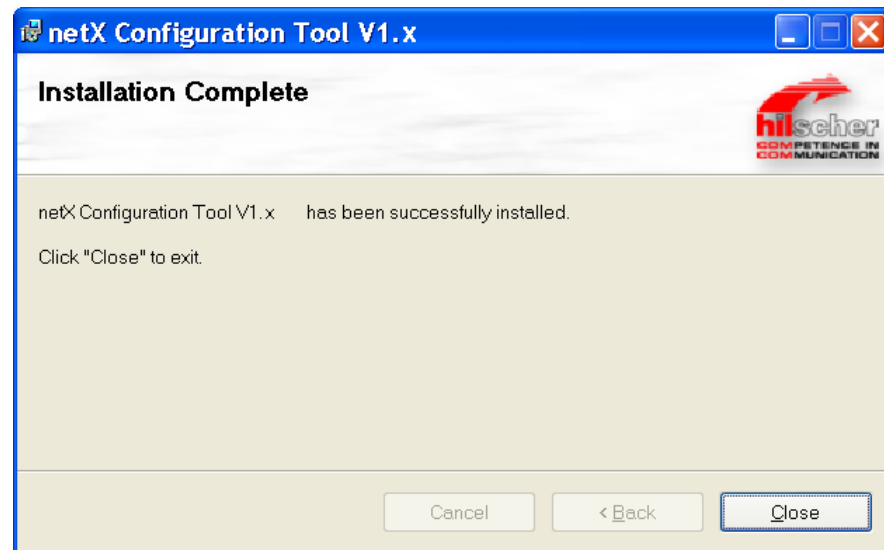


Figure 135: netX Configuration Tool Setup Wizard – Installation Complete

- Click **Close** to finish the Installation.
- netX Configuration Tool has been installed and can be started in the **Start** menu of Windows via **All Programs > Hilscher GmbH > netX Configuration Tool**.

5.2.2 Installing netX Configuration Tool under Windows 7

1. Start the netX Configuration Tool installation program.
 - Close all application programs and insert the Communication Solutions DVD into the local DVD-ROM drive.
 - The start screen of the Communication Solutions DVD is displayed:

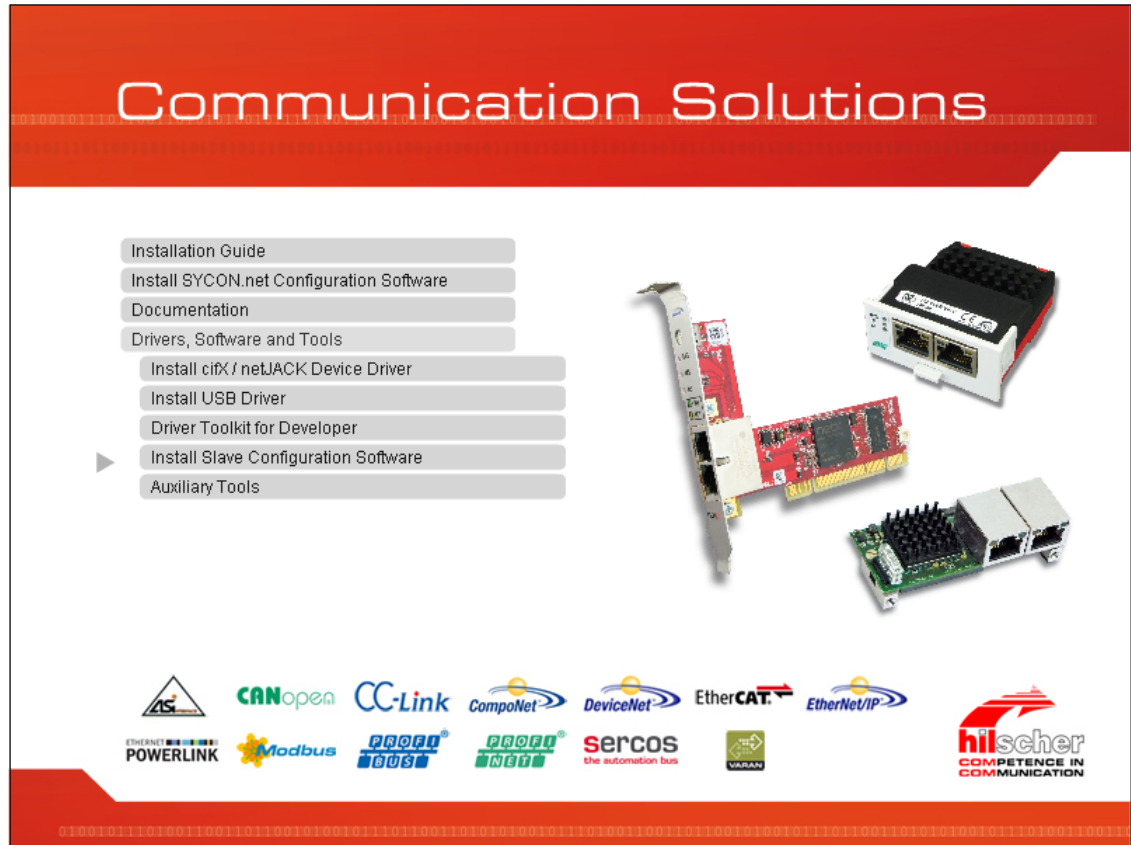


Figure 136: Start Screen Communication Solutions – Install netX Configuration Tool

- In the menu, choose **Drivers, Software and Tools > Install Slave Configuration Software**.



Note: As an alternative, you can also start the installation program (i. e. the **netX Configuration Tool Setup Wizard**) by double-clicking the *netXConfigurationUtility_Setup.exe* file in the Software\Slave Configuration Tool directory on the Communication Solutions DVD. You can reduce the number of Windows security questions by right-clicking on the *netXConfigurationUtility_Setup.exe* file and choosing **Run as administrator** from the context menu.

➤ The **netX Configuration Tool Setup Wizard** is started:

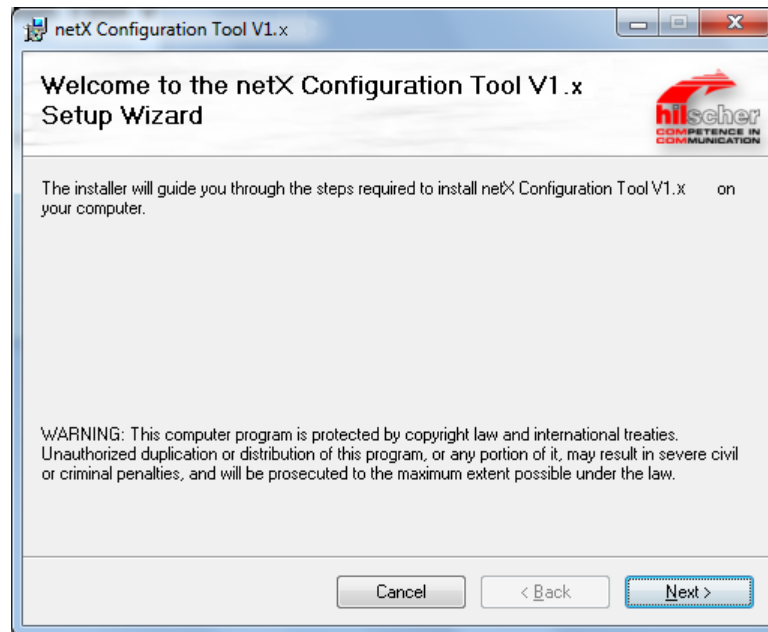


Figure 137: netX Configuration Tool Setup Wizard

➤ Click **Next**.

2. Choose Installation options.

➤ The **Select Installation Folder** window is displayed:

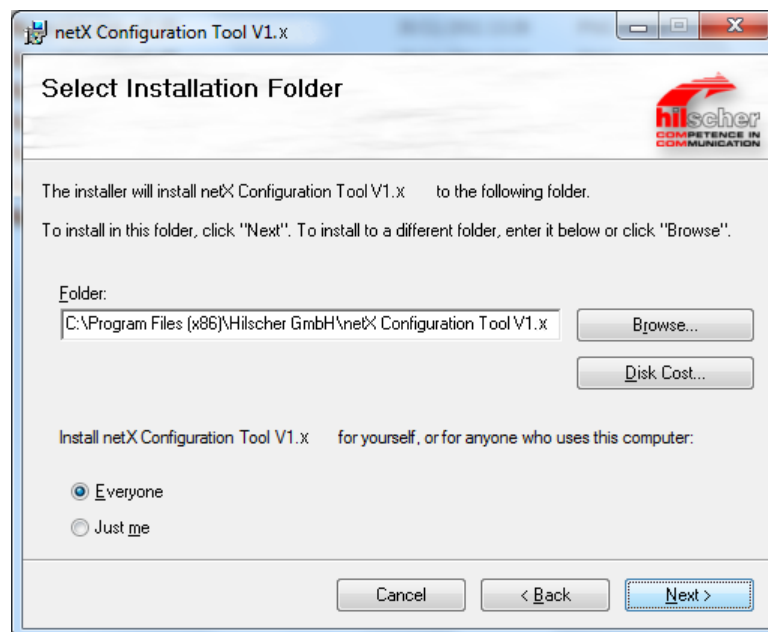


Figure 138: netX Configuration Tool Setup Wizard – Installation Options

➤ If you accept the suggested standard installation directory, click **Next**. If you prefer a different directory, enter the path directly in the **Folder** field or click **Browse** to open the **Browse for Folder** dialog, in which you can select a different directory.

- If you want to check which drive provides the required space for the installation, click **Disk Cost...**
- If you want to restrict access to the netX Configuration Tool to your login, click **Just me** option.
- Click **Next**.

3. Start the installation.

- The **Confirm Installation** window is displayed:

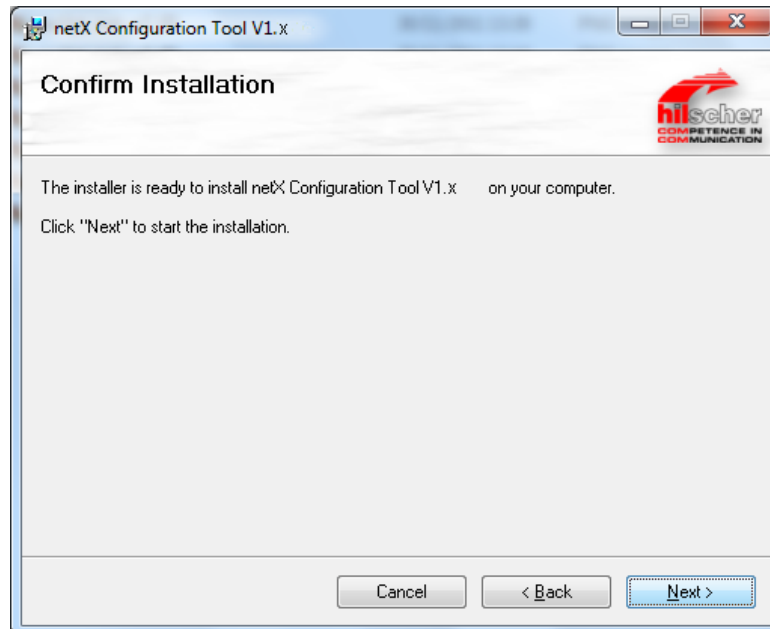


Figure 139: netX Configuration Tool Setup Wizard – Confirm Installation

- Click **Next** to start the installation.
- netX Configuration Tool is being installed.

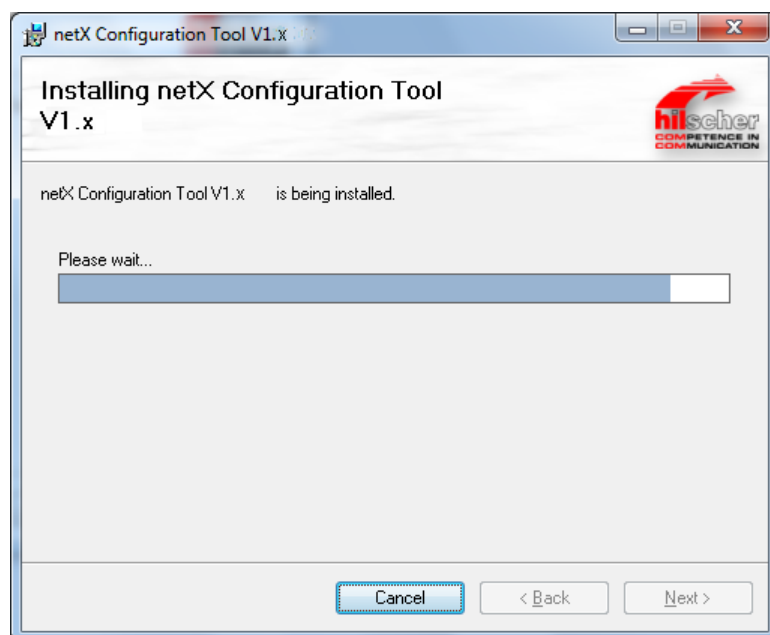


Figure 140: netX Configuration Tool Setup Wizard – Installation in Progress

4. Finish installation.

➤ The **Installation Complete** window appears:

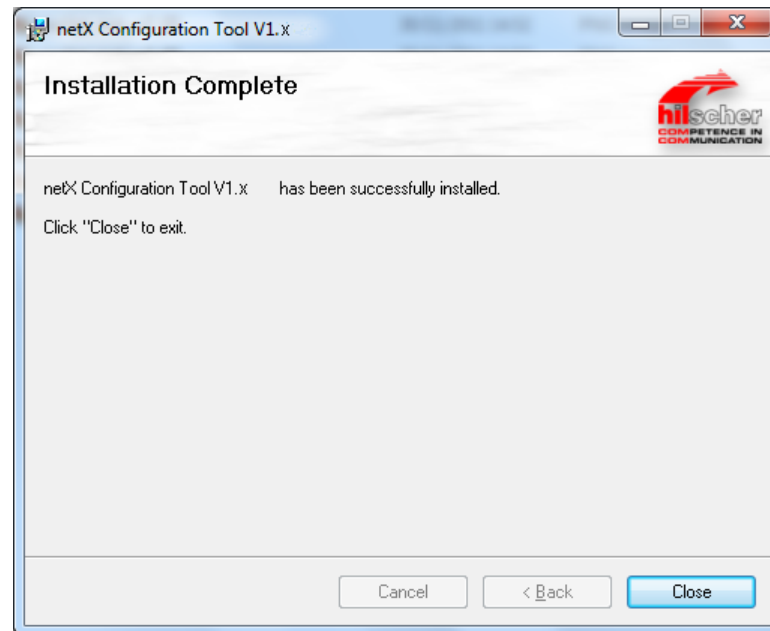


Figure 141: netX Configuration Tool Setup Wizard – Installation Complete

- Click **Close** to finish the Installation.
- netX Configuration Tool has been installed and can be started in the **Start** menu of Windows via **All Programs > Hilscher GmbH > netX Configuration Tool**.

5.2.3 Installing netX Configuration Tool under Windows 8

1. Start the netX Configuration Tool installation program.
 - Close all application programs and insert the Communication Solutions DVD into the local DVD-ROM drive.
 - The start screen of the Communication Solutions DVD is displayed:

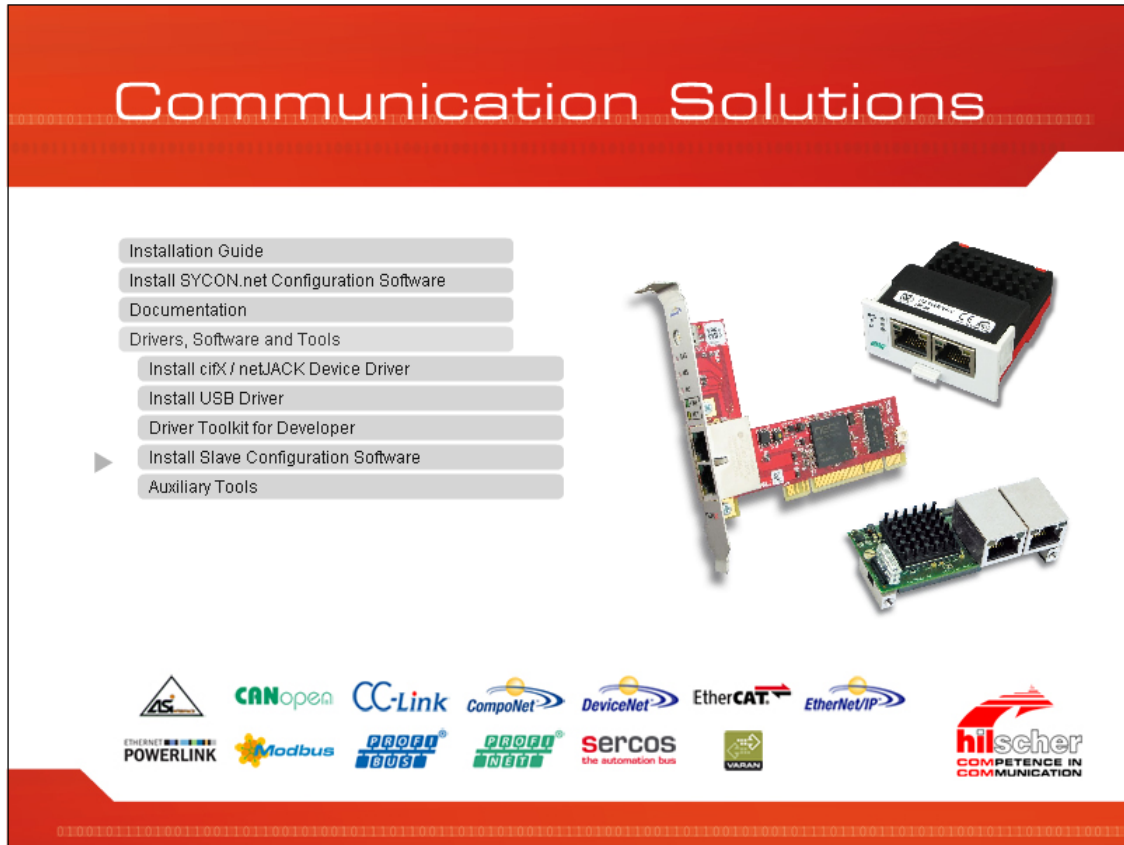


Figure 142: Start Screen Communication Solutions – Install netX Configuration Tool

- In the menu, choose **Drivers, Software and Tools > Install Slave Configuration Software**.



Note: As an alternative, you can also start the installation program (i. e. the **netX Configuration Tool Setup Wizard**) by double-clicking the *netXConfigurationUtility_Setup.exe* file in the Software\Slave Configuration Tool directory on the Communication Solutions DVD. You can reduce the number of Windows security questions by right-clicking on the *netXConfigurationUtility_Setup.exe* file and choosing **Run as administrator** from the context menu.

➤ The **netX Configuration Tool Setup Wizard** is started:

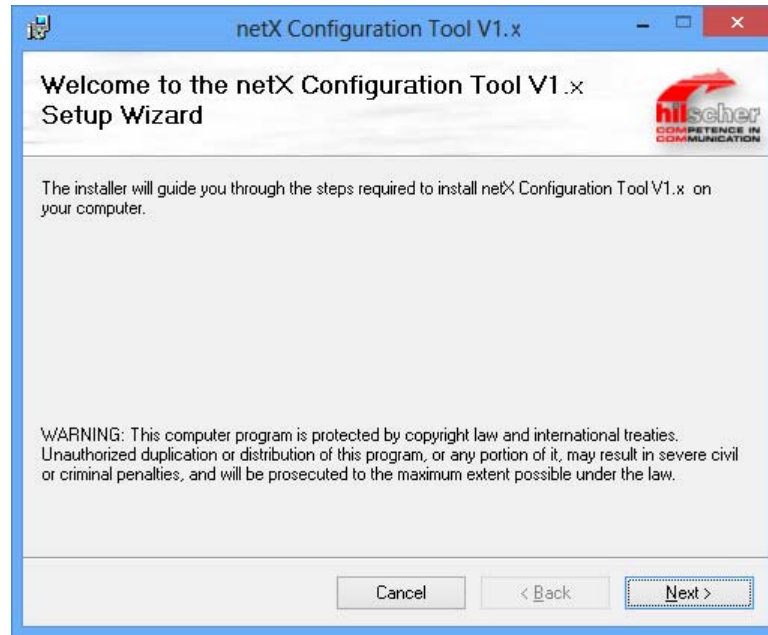


Figure 143: netX Configuration Tool Setup Wizard

➤ Click **Next**.

2. Choose Installation options.

➤ The **Select Installation Folder** window is displayed:

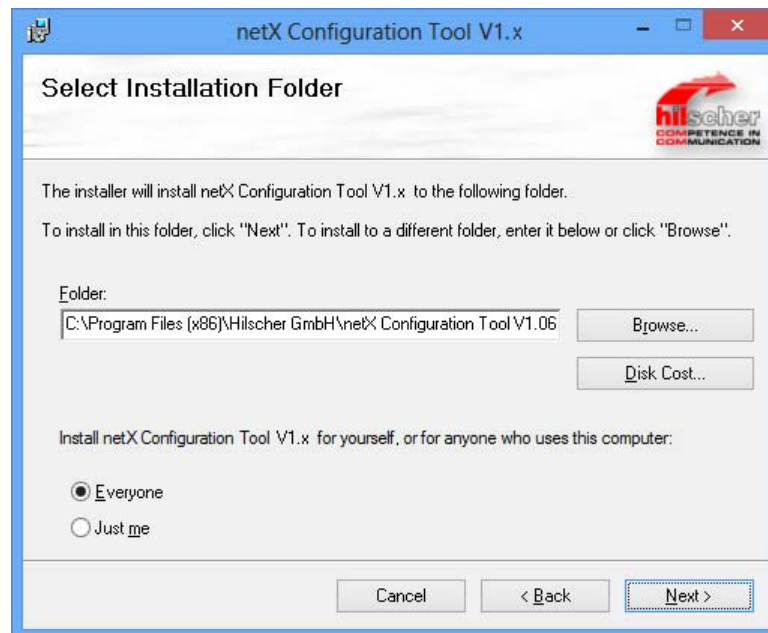


Figure 144: netX Configuration Tool Setup Wizard – Installation Options

➤ If you accept the suggested standard installation directory, click **Next**. If you prefer a different directory, enter the path directly in the **Folder** field or click **Browse** to open the **Browse for Folder** dialog, in which you can select a different directory.

- If you want to check which drive provides the required space for the installation, click **Disk Cost...**
- If you want to restrict access to the netX Configuration Tool to your login, click **Just me** option.
- Click **Next**.

3. Start the installation.

- The **Confirm Installation** window is displayed:

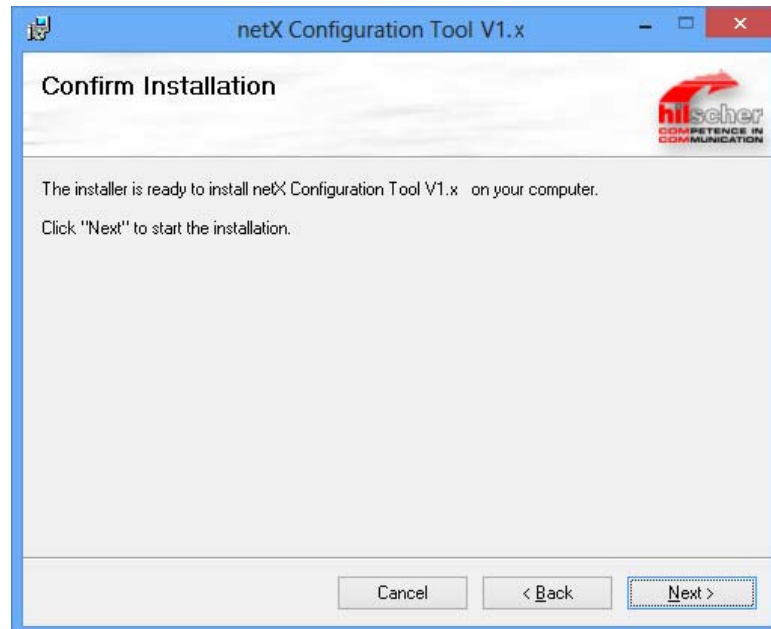


Figure 145: netX Configuration Tool Setup Wizard – Confirm Installation

- Click **Next**, to start the installation.
- netX Configuration Tool is being installed.

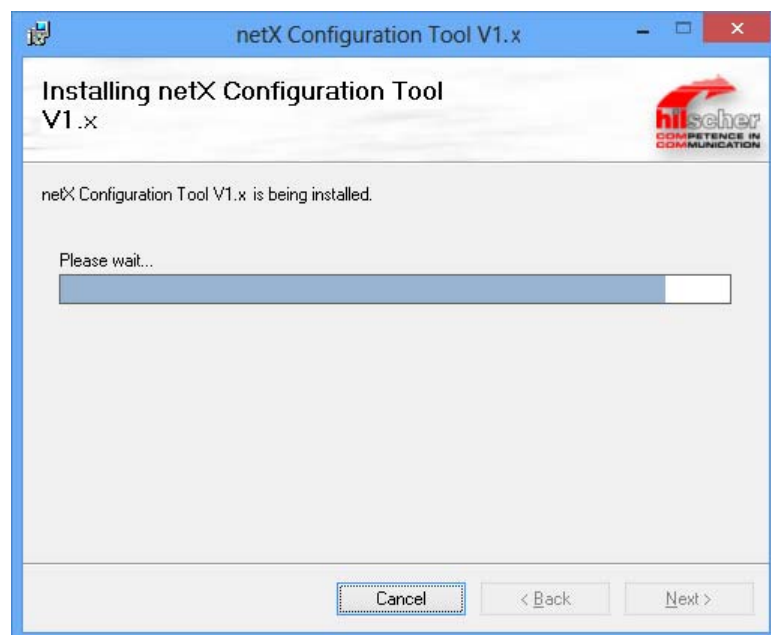


Figure 146: netX Configuration Tool Setup Wizard – Installation in Progress

4. Finish installation.

➤ The **Installation Complete** window appears:

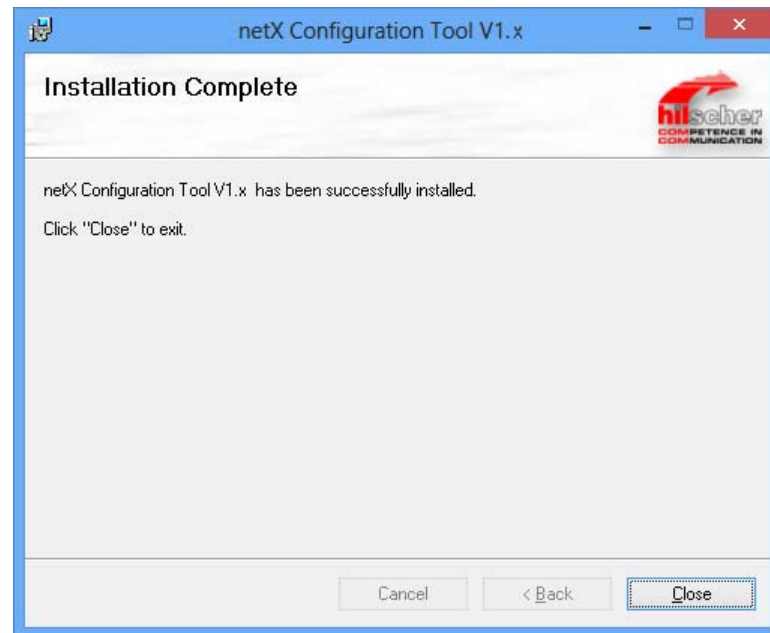


Figure 147: netX Configuration Tool Setup Wizard – Installation Complete

➤ Click **Close**, to finish the Installation.

➤ netX Configuration Tool has been installed.



Note: To start the netX Configuration Tool, use the Windows key to change from the desktop mode to the start screen of Windows 8. In the start screen, click on the **netX Configuration Tool** tile. If the tile is not displayed, right-click on an empty space, then click on the **All Apps** button appearing in the lower part of the start screen. A list featuring all available programs (**Apps**) opens. In this list, **netX Configuration Tool** is shown below **Hilscher GmbH** and can be started by double-click.

5.3 Uninstalling netX Configuration Tool

5.3.1 Uninstalling netX Configuration Tool under Windows XP

- Close all application programs.
- In the **Start** menu of Windows, choose **Control Panel**.
- The **Control Panel** opens:

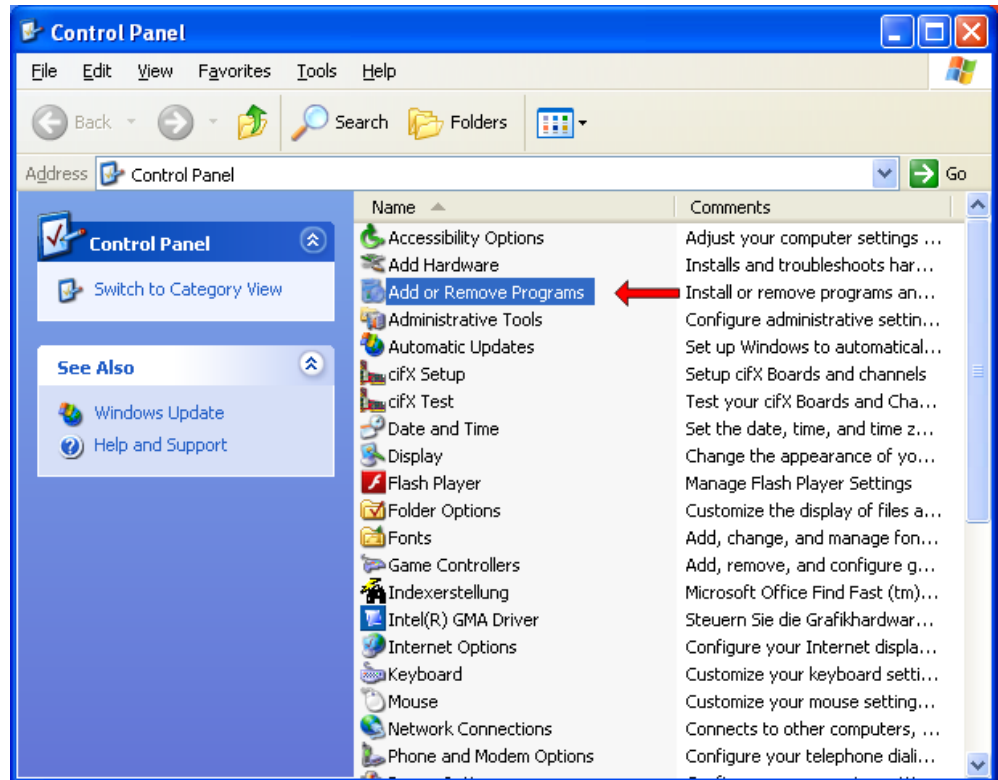


Figure 148: Control Panel

- In the **Control Panel**, double-click **Add or Remove Programs**.
- The **Add or Remove Programs** window opens:

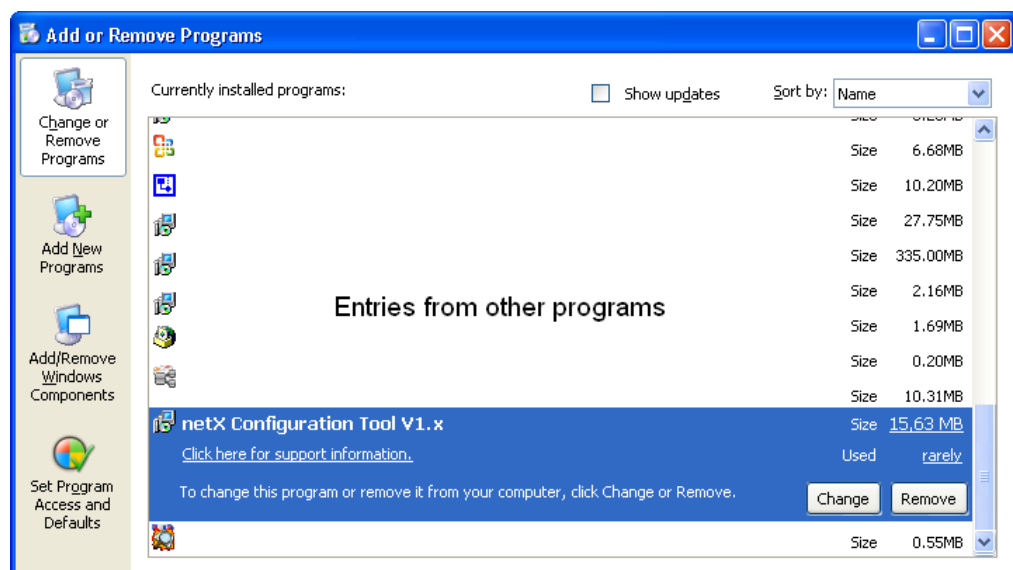


Figure 149: Add or Remove Programs

- Select **netX Configuration Tool** entry.
- Click **Remove**.
- ⇒ A confirmation request appears:

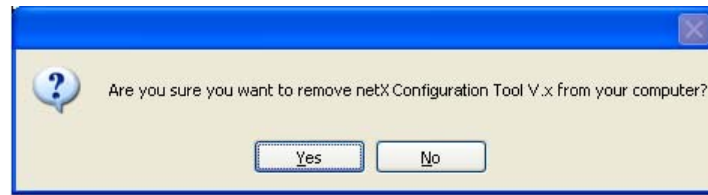


Figure 150: Confirmation Dialog

- Click **Yes**.
- ⇒ netX Configuration Tool is being uninstalled from your host system or PC.

5.3.2 Uninstalling netX Configuration Tool under Windows 7

- Close all application programs.
- In the **Start** menu of Windows 7, select **Control Panel**.
- The **Adjust your computer's settings** window opens:

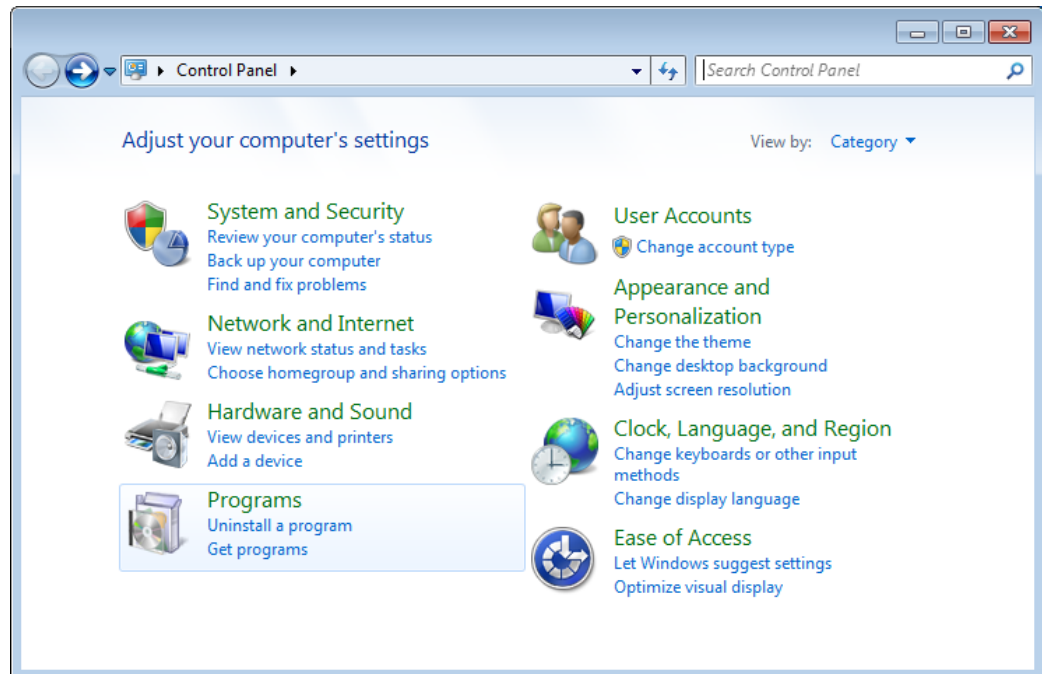


Figure 151: Adjust Your Computer's Settings Window

- In the **Programs** group, click **Uninstall a program**.
- The **Uninstall or change a program** window opens:

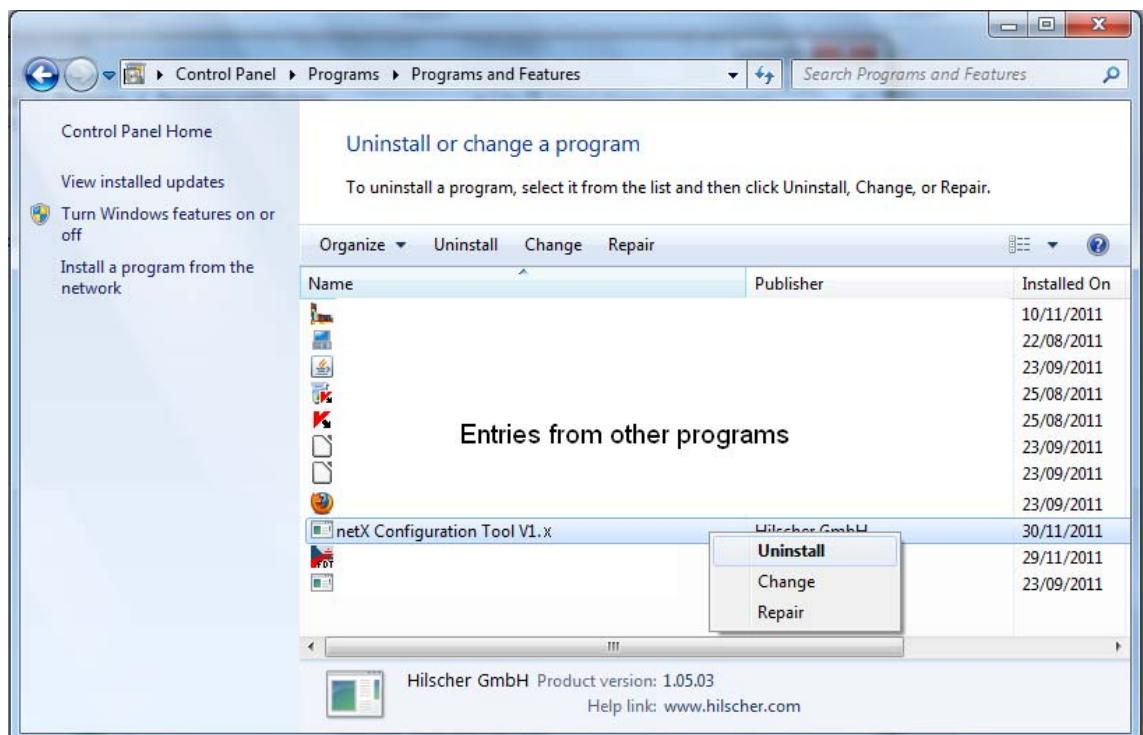


Figure 152: Uninstall or Change a Program

- Right-click on the **netX Configuration Tool** entry and choose **Uninstall** from the context menu.
- A confirmation request appears:

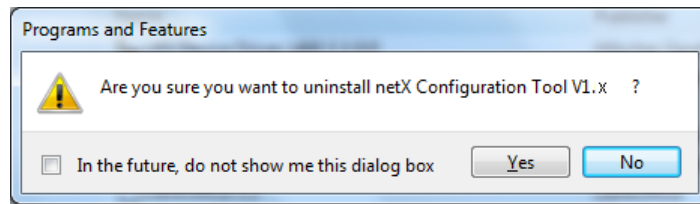


Figure 153: Confirmation Dialog

- Click **Yes**.
- netX Configuration Tool is being uninstalled from your host system or PC.

5.3.3 Uninstalling netX Configuration Tool under Windows 8

- In the **Start** screen of Windows 8, right-click on an empty space.
- The **All apps** button appears in the lower part of the screen:



Figure 154: All Apps Button

- Click **All apps**.
- A list featuring all available programs (**Apps**) appears:



Figure 155: List of Installed Apps in Windows 8 – Uninstall netX Configuration Tool

- In the **Apps** list, right-click the **netX Configuration Tool** entry.
- The context menu opens in the lower part of the screen.
- In the context menu, click **Uninstall**.

- Windows 8 changes into “desktop mode” and opens the **Programs and Features** window:

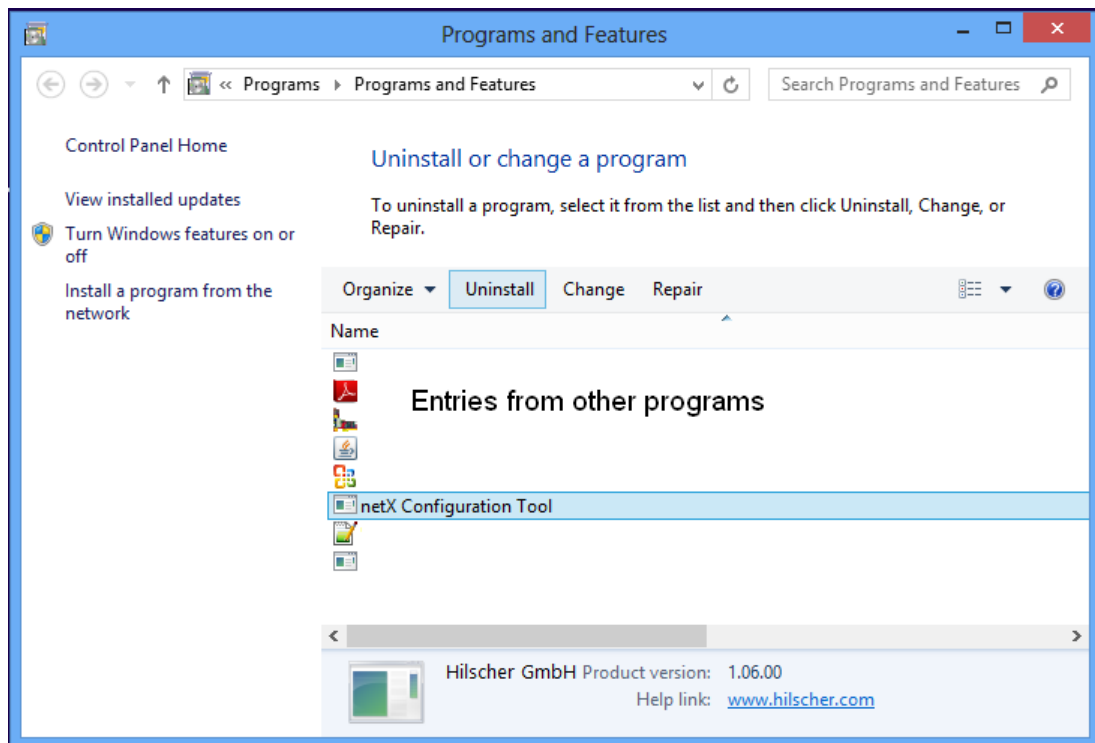


Figure 156: Programs and Features Window

- Select **netX Configuration Tool** entry.
- Above the list, click **Uninstall**.
- A security question appears:

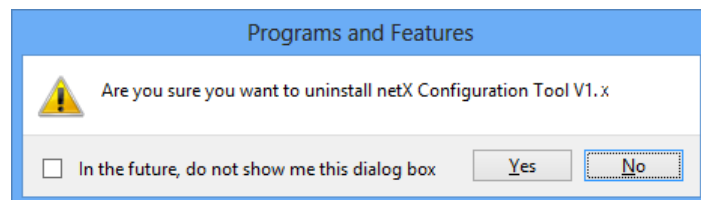


Figure 157: Acknowledge Uninstall

- Click **Yes**.
- netX Configuration Tool is being uninstalled from your host system or PC.

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