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 in order 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**
- **Windows 10**

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
2	2017-04-03	all	Software versions updated. Instructions for installation under Windows 10 added. Legal Notes updated.

Table 1: List of Revisions

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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. <operation step>
   - ➢ <instruction>
   - ➢ <instruction>
2. <operation step>
   - ➢ <instruction>
   - ➢ <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	1.0400.x.x	`SYCONnet netX setup.exe`	`Software\SYCON.net`
netX Configuration Tool	1.0900.x.x	`netXConfigurationUtility_Setup.exe`	`Software\Slave Configuration Tool`
cifX Device Driver	1.3.x.x	`cifX Device Driver Setup.exe`	`Driver and Toolkit\Device Driver (NXDRV-WIN)\Installation`
USB diagnostic driver	-	`setup.exe`	`Driver and Toolkit\USB Diagnostic Driver`

Table 2: Reference on Drivers and Software

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1.2 Legal Notes

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- Vehicle control systems used in passenger transport

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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, Windows 8 and Windows 10. 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.

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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.

➢ Double-click the `Communication-Solutions.exe` file in the root directory of the un-zipped Communication SolutionsDVD.

➢ The Flash start screen **Communication Solutions** 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 of the Communication Solutions DVD.

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➮ 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:

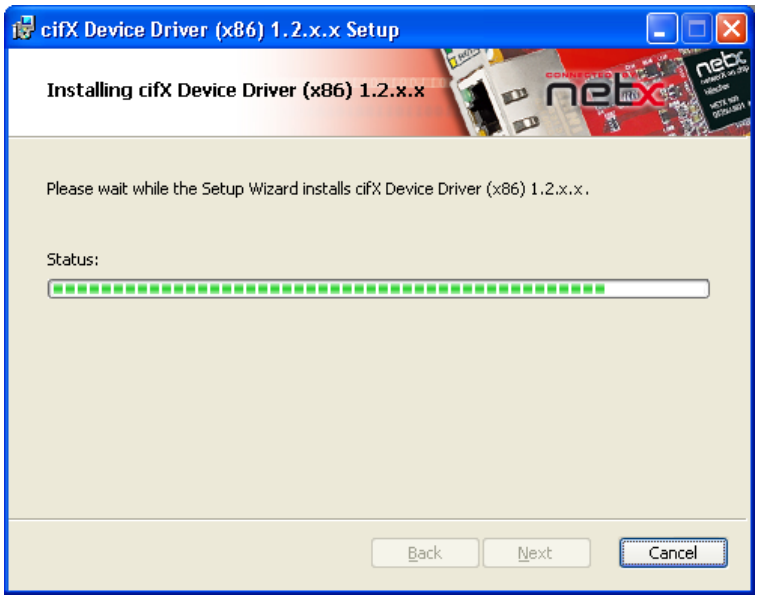

Figure 3: Installing cifX Device Driver

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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

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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:

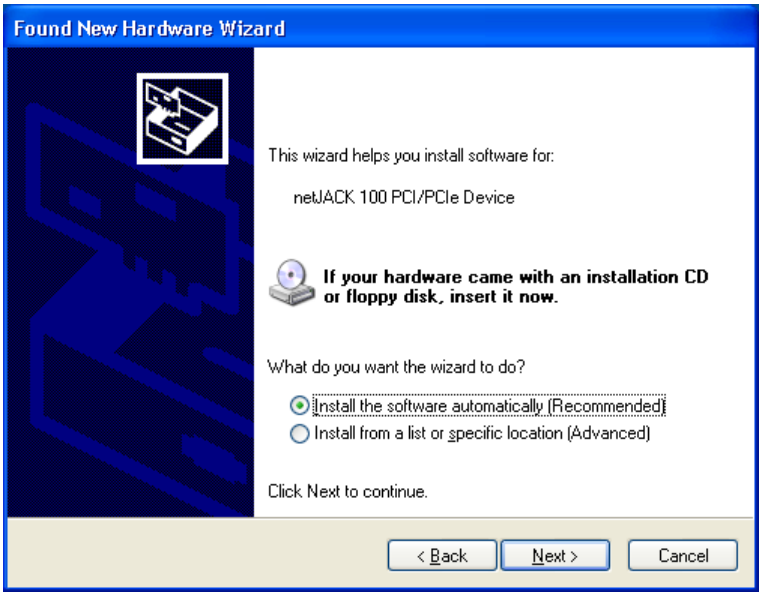

Figure 6: Found New Hardware Wizard – cifX Device Driver (2)

➢ 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.

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➢ Click **Next**.

➱ Windows copies the driver files to the Windows directories.

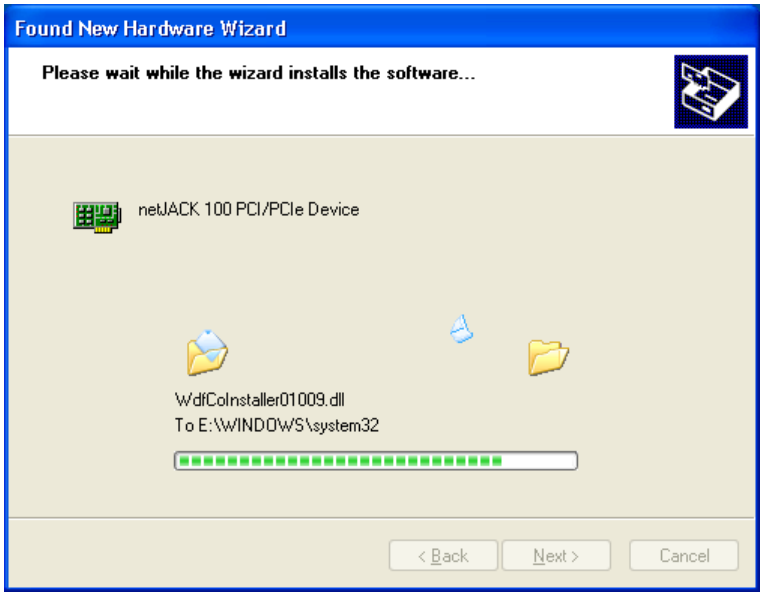

Figure 7: Found New Hardware Wizard – cifX Device Driver (3)

➱ 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.

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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:

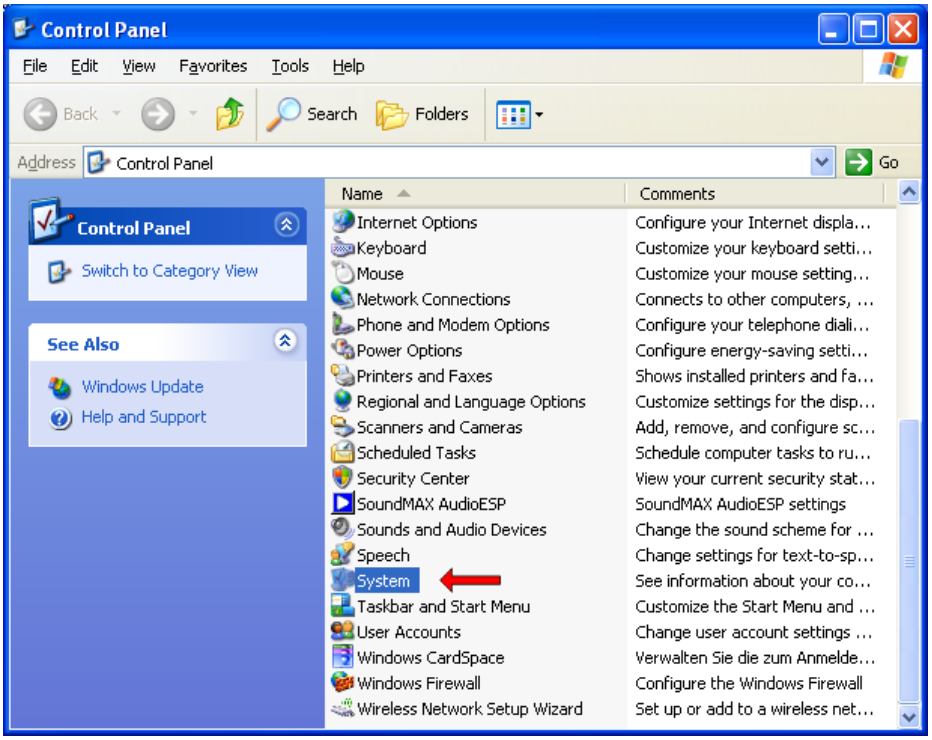

Figure 9: Control Panel

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

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➮ The **System Properties** sheet opens:

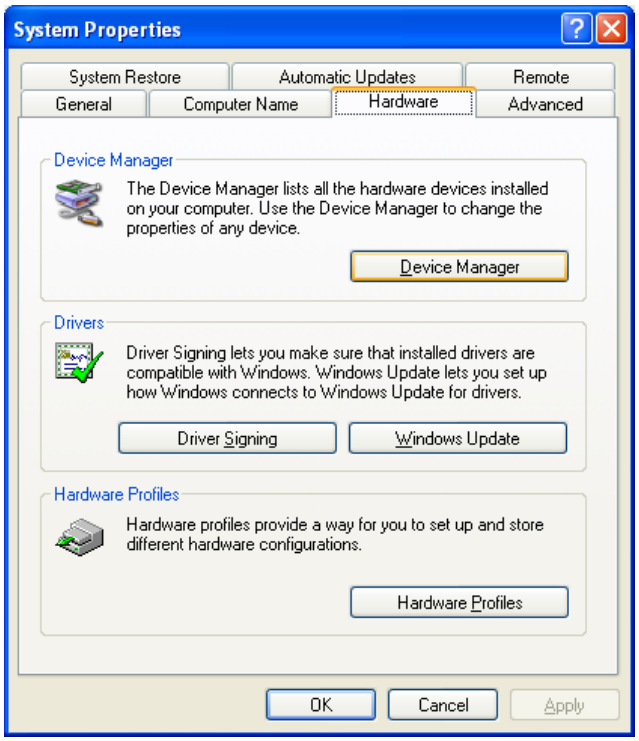

Figure 10: System Properties

➢ In the **System Properties** sheet, select **Hardware** tab.

➢ In the **Hardware** tab, click **Device Manager**.

➮ The **Device Manager** starts:

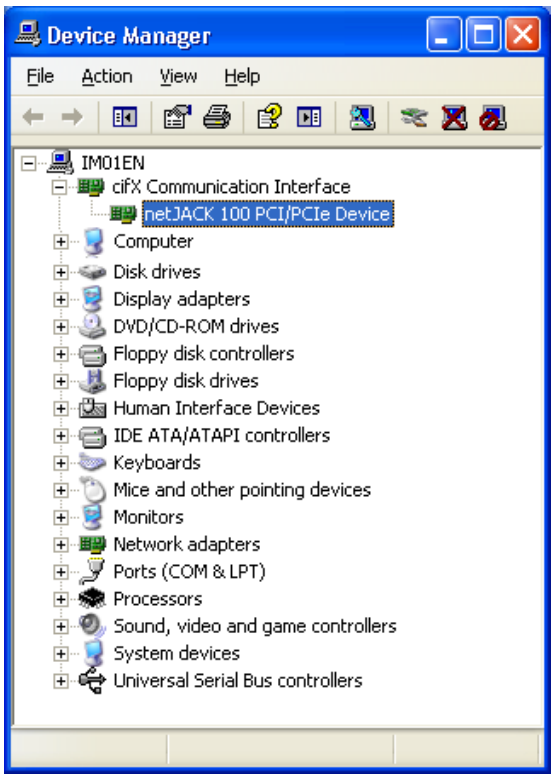

Figure 11: Display of Communication Module in Device Manager

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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**.

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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.

➢ Double-click the `Communication-Solutions.exe` file in the root directory of the un-zipped Communication SolutionsDVD.

➢ The Flash start screen **Communication Solutions** 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 of 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.

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

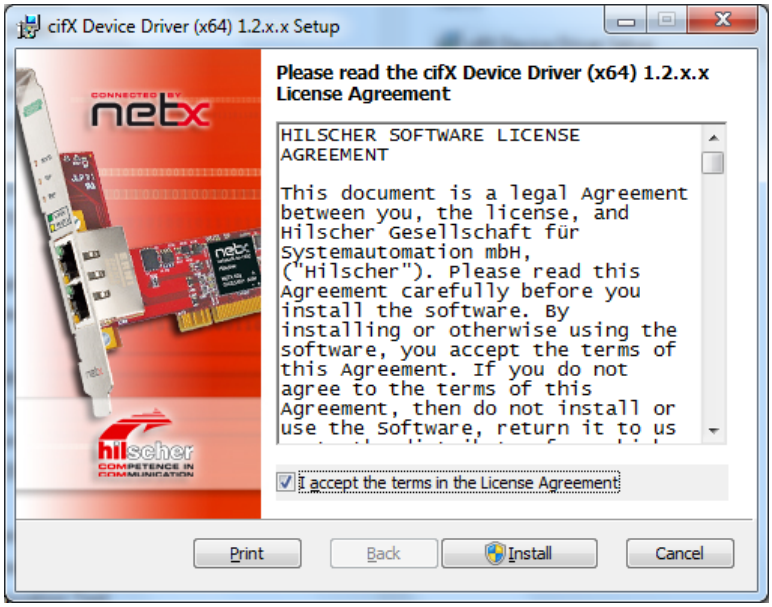

Figure 13: cifX Device Driver Setup – License Agreement

2. Start installation.

➢ Select **I accept the terms in the license agreement**.

➢ Click **Install**.

➮ The cifX Device Driver is started:

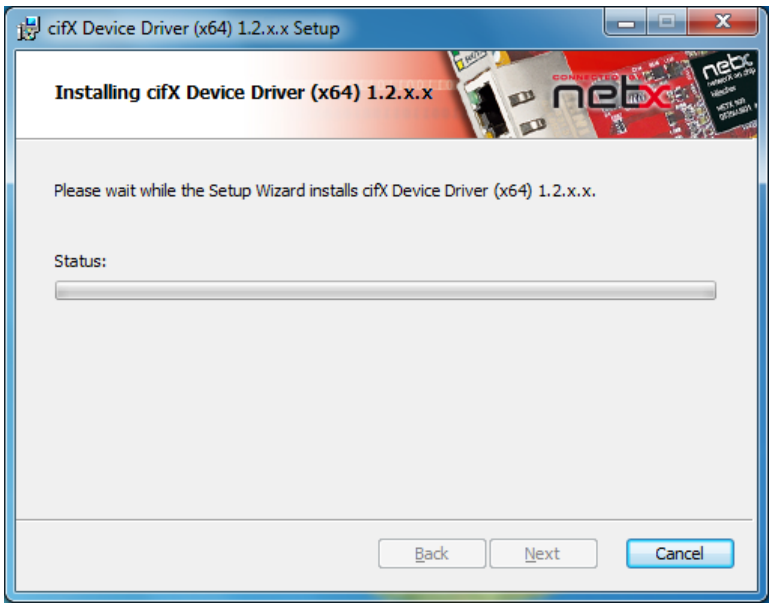

Figure 14: Installing cifX Device Driver

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➧ 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

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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:

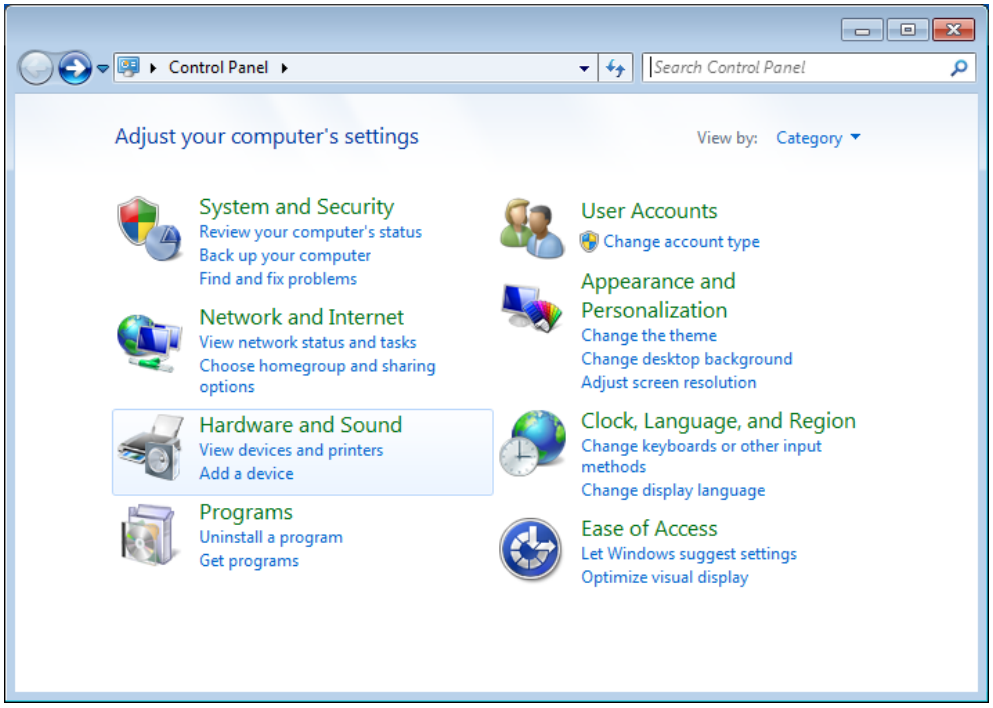

Figure 16: Adjust Your Computer's Settings Window

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

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

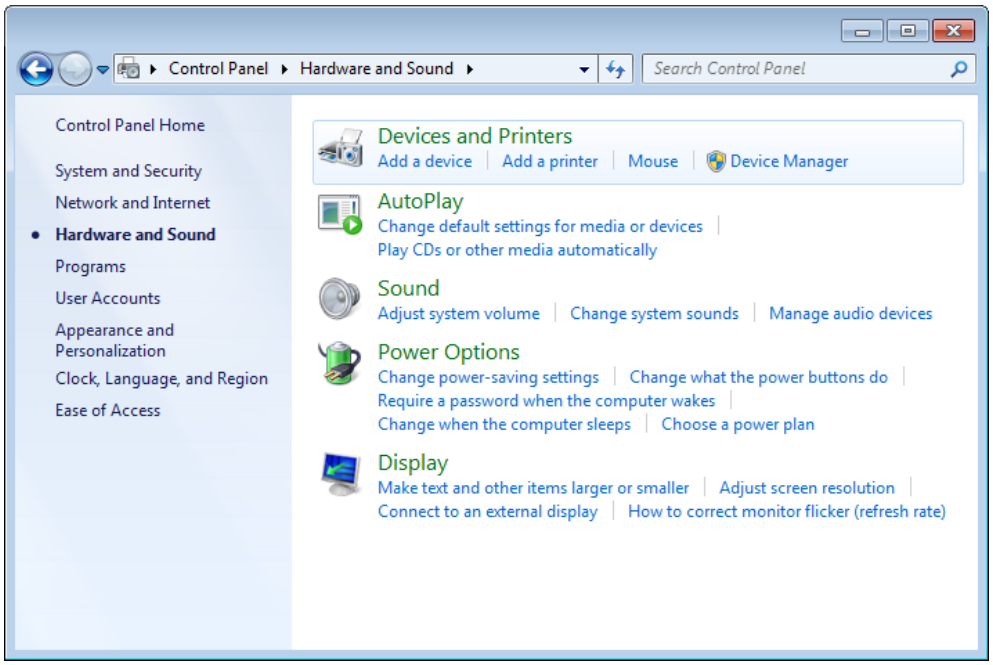

Figure 17: Hardware and Sound Window

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➢ In the **Devices and Printers** group of the **Hardware and Sound** window, click **Device Manager**.

➢ The **Device Manager** starts:

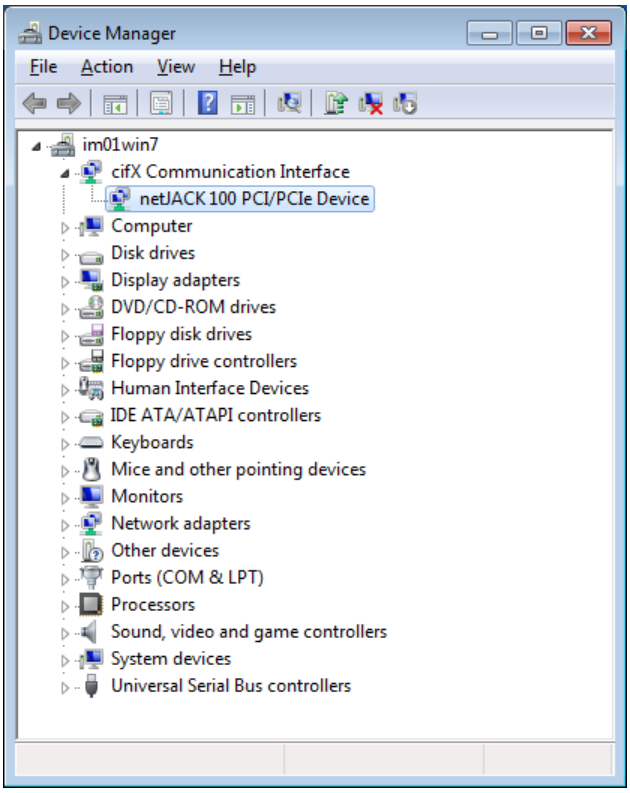

Figure 18: Display of Communication Module in Device Manager

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**.

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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.

➢ Double-click the `Communication-Solutions.exe` file in the root directory of the un-zipped Communication SolutionsDVD.

➢ The Flash start screen **Communication Solutions** 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 of 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.

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

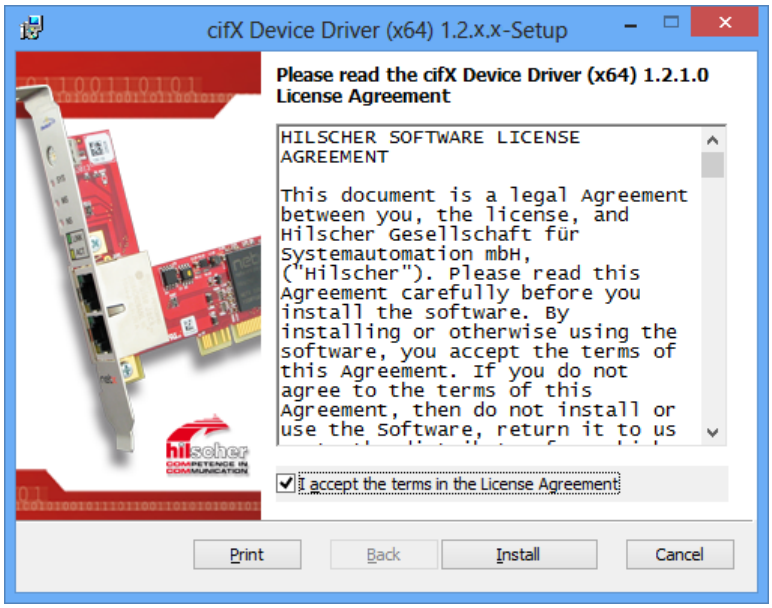

Figure 20: cifX Device Driver Setup – License Agreement

2. Start installation.

➢ Select **I accept the terms in the license agreement**.

➢ Click **Install**.

➮ The cifX Device Driver installation is started:

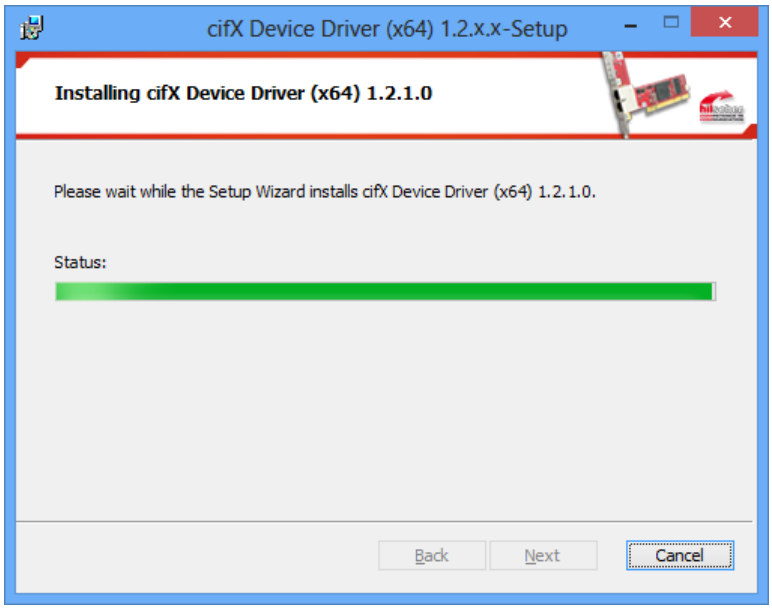

Figure 21: Installing cifX Device Driver

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➧ 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

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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:

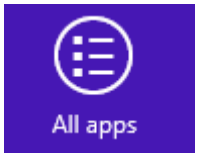

Figure 23: All Apps Button

➢ Click **All apps**.

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

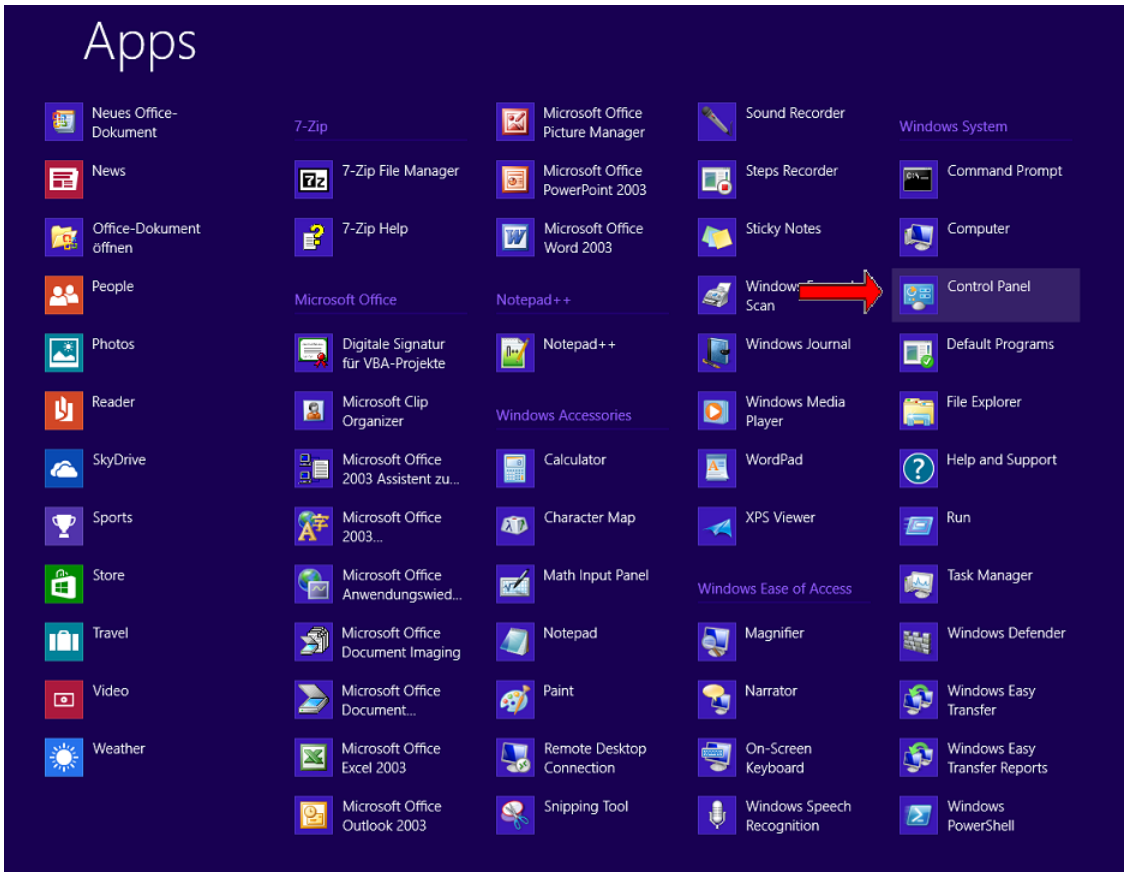

Figure 24: List of Installed Apps in Windows 8

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

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

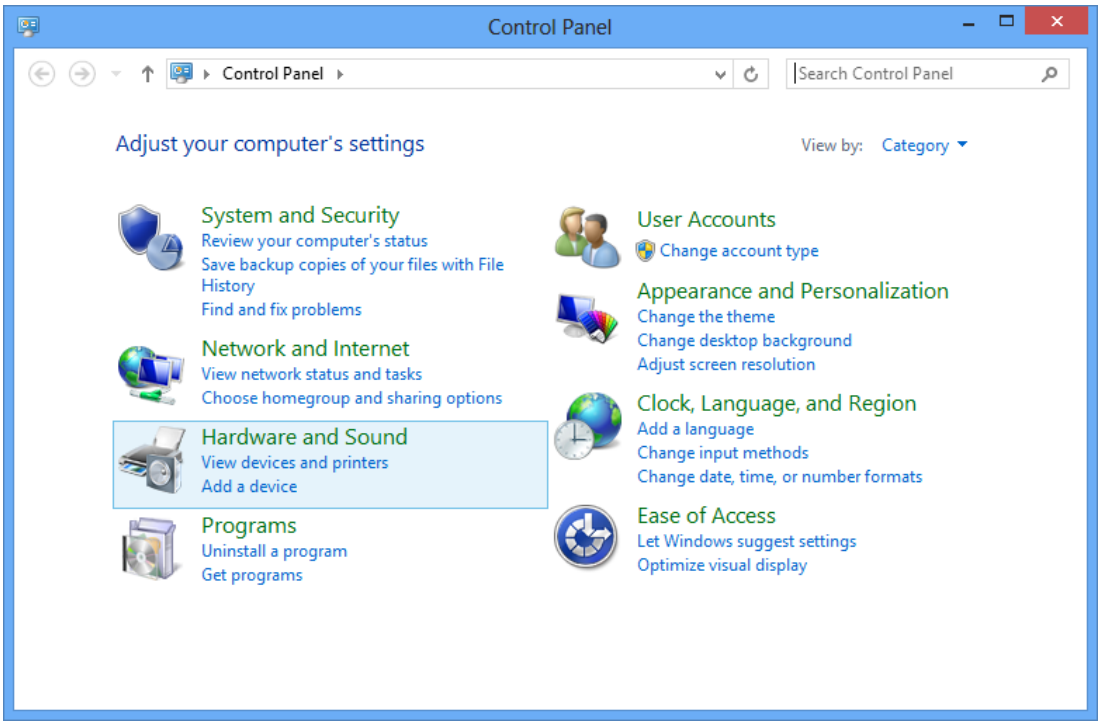

Figure 25: Control Panel

2. Open **Device Manager**.

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

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

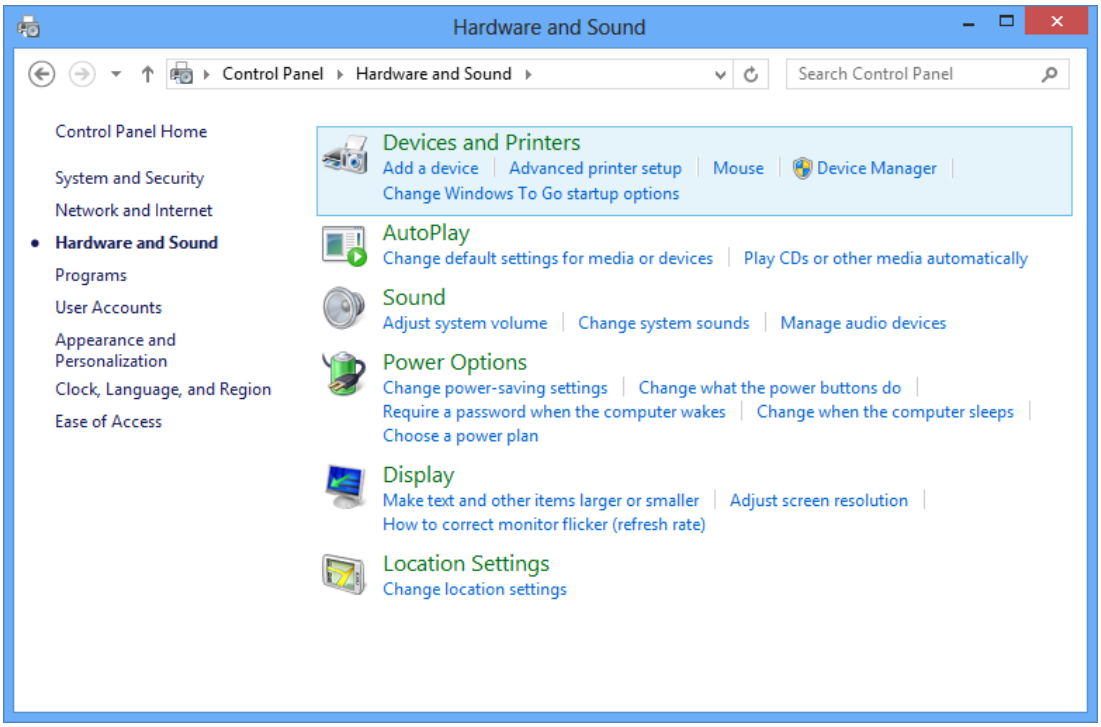

Figure 26: Hardware and Sound

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

➢ The **Device Manager** starts:

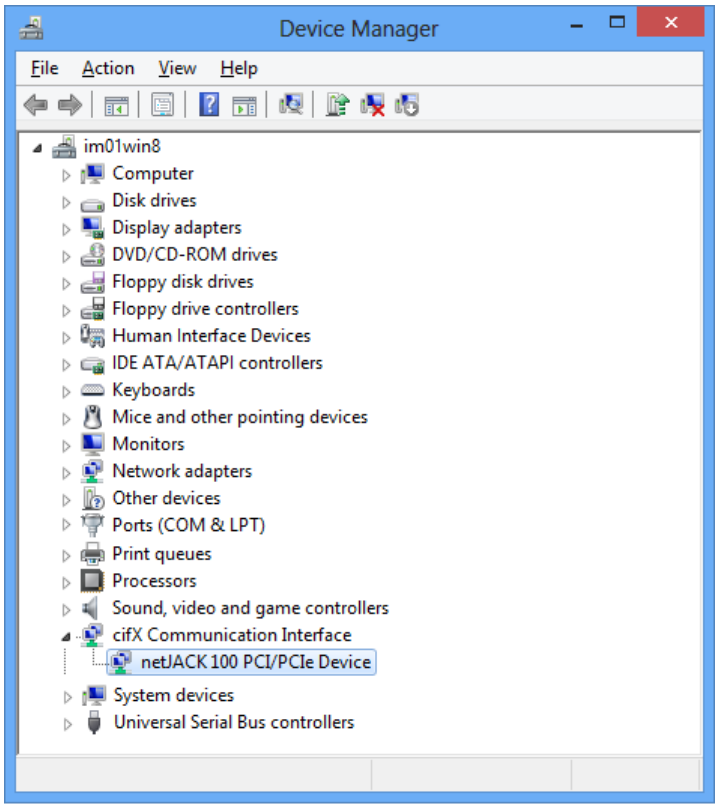

Figure 27: Display of Communication Module in Device Manager

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**.

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2.2.4 Installing cifX Device Driver under Windows 10

2.2.4.1 Installing cifX Device Driver by Installation Program

1. Start the cifX Device Driver installation program.

➢ Double-click the `Communication-Solutions.exe` file in the root directory of the un-zipped Communication SolutionsDVD.

➢ The Flash start screen **Communication Solutions** is displayed:

Figure 28: 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 of the Communication Solutions DVD.

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

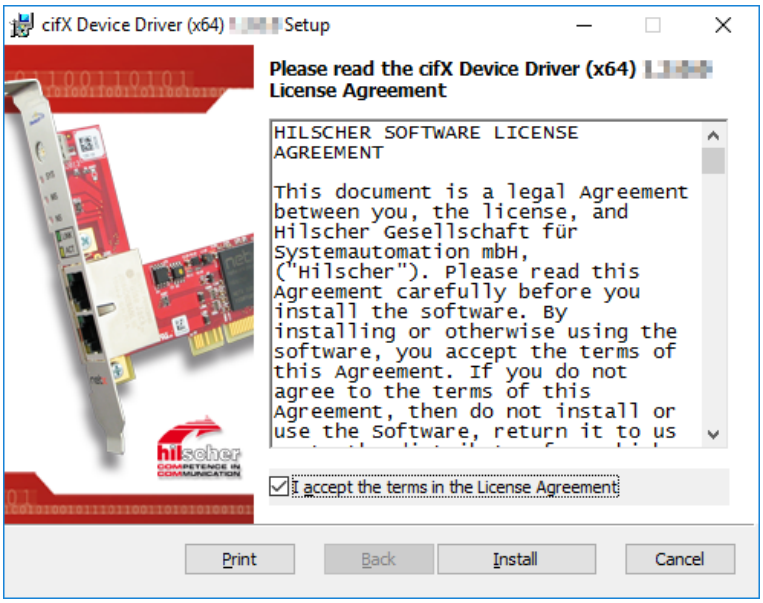

Figure 29: cifX Device Driver Setup – License Agreement

2. Start installation.

➢ Select **I accept the terms in the license agreement**.

➢ Click **Install**.

➮ The cifX Device Driver installation is started:

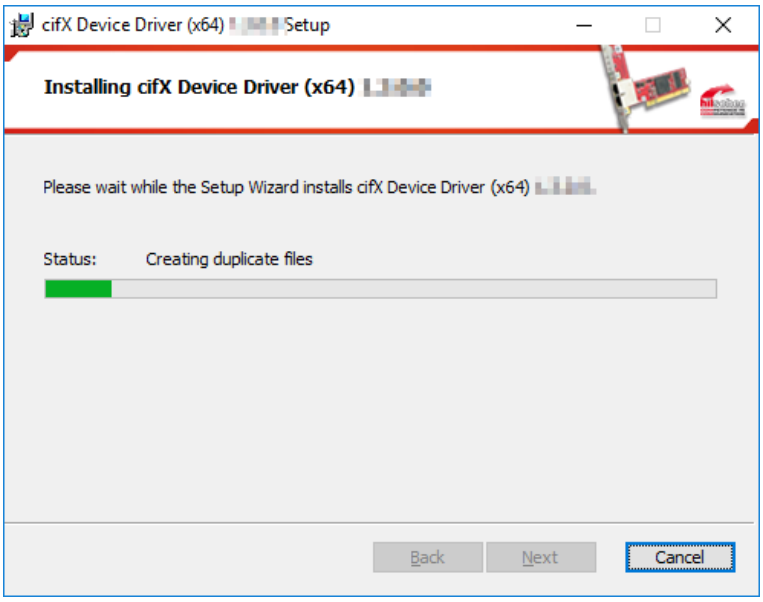

Figure 30: Installing cifX Device Driver

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

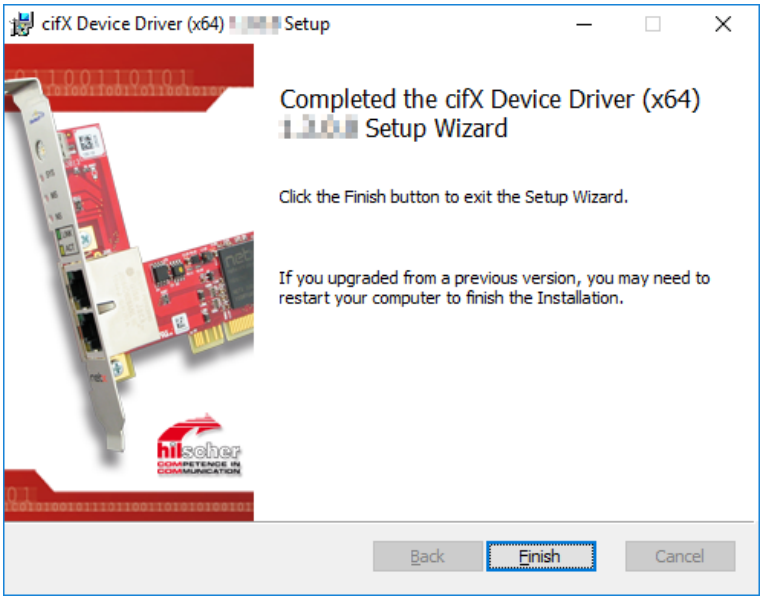

Figure 31: cifX Device Driver – Installation Completed

➢ Click **Finish**.

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

Note: Under Windows 10, the driver installation process is practically finished after having executed the installation program.
When you reboot Windows 10 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 10 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

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2.2.4.2 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**.

➢ Right-click on the Windows **Start** symbol, then choose **Device Manager** entry:

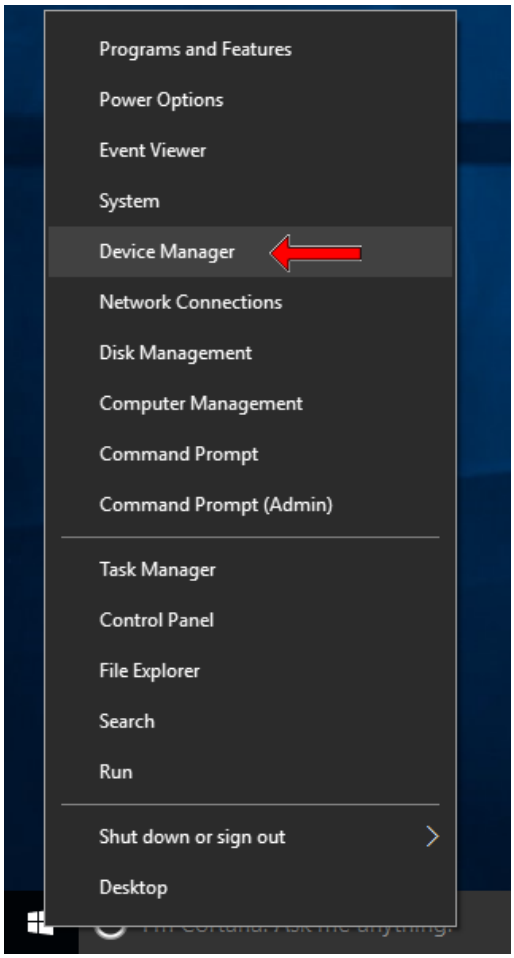

Figure 32: Open Device Manager in Windows 10

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➢ The **Device Manager** starts:

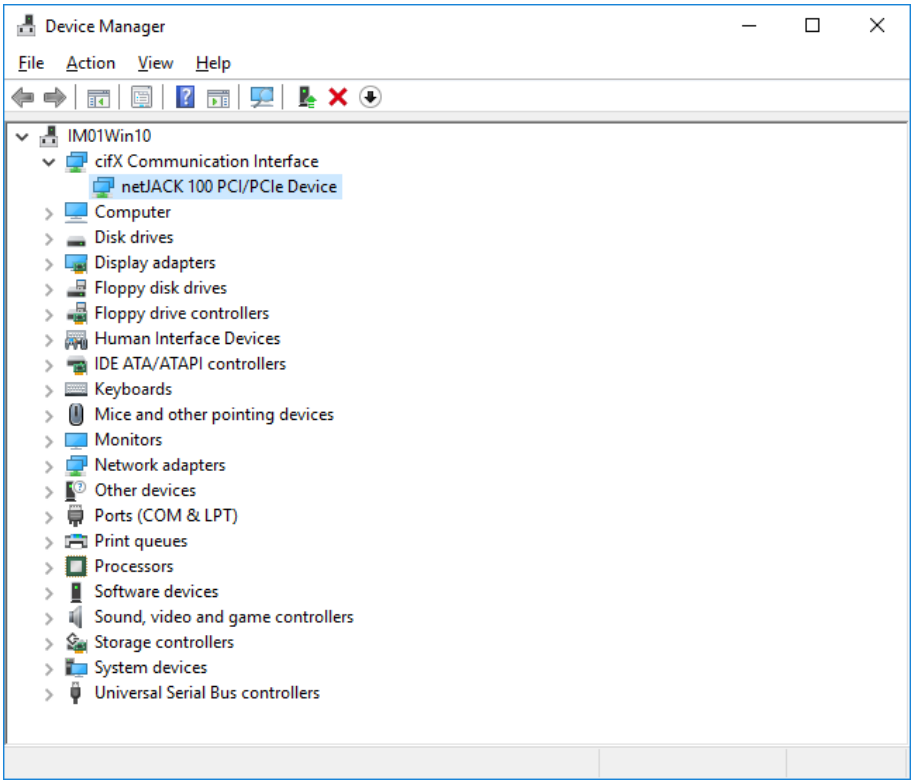

Figure 33: Display of Communication Module in Device Manager

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**.

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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:

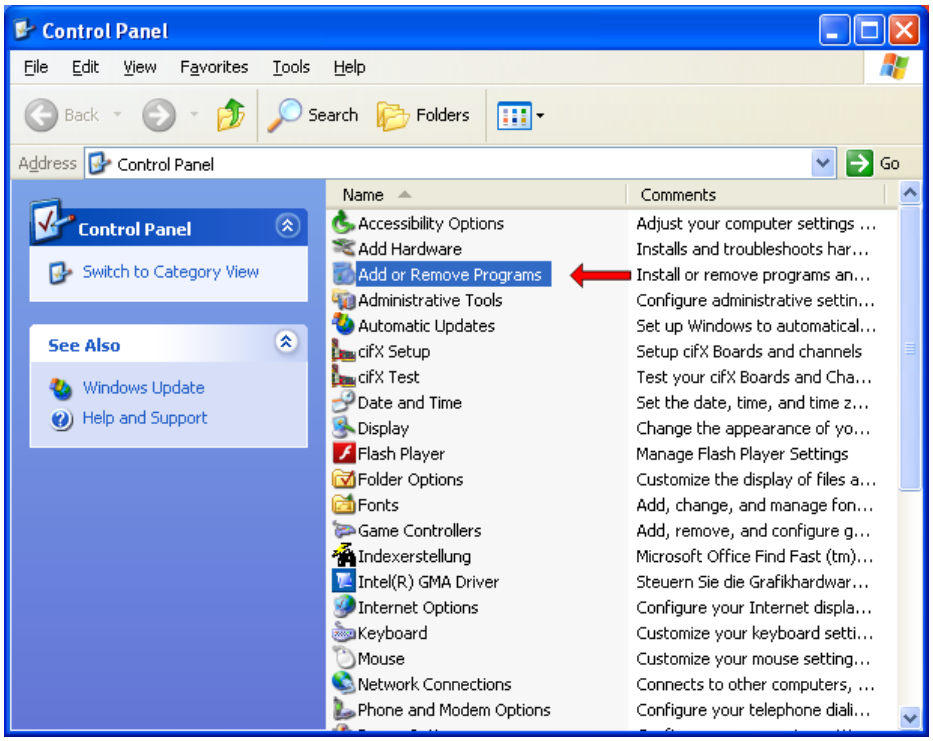

Figure 34: Control Panel

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

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

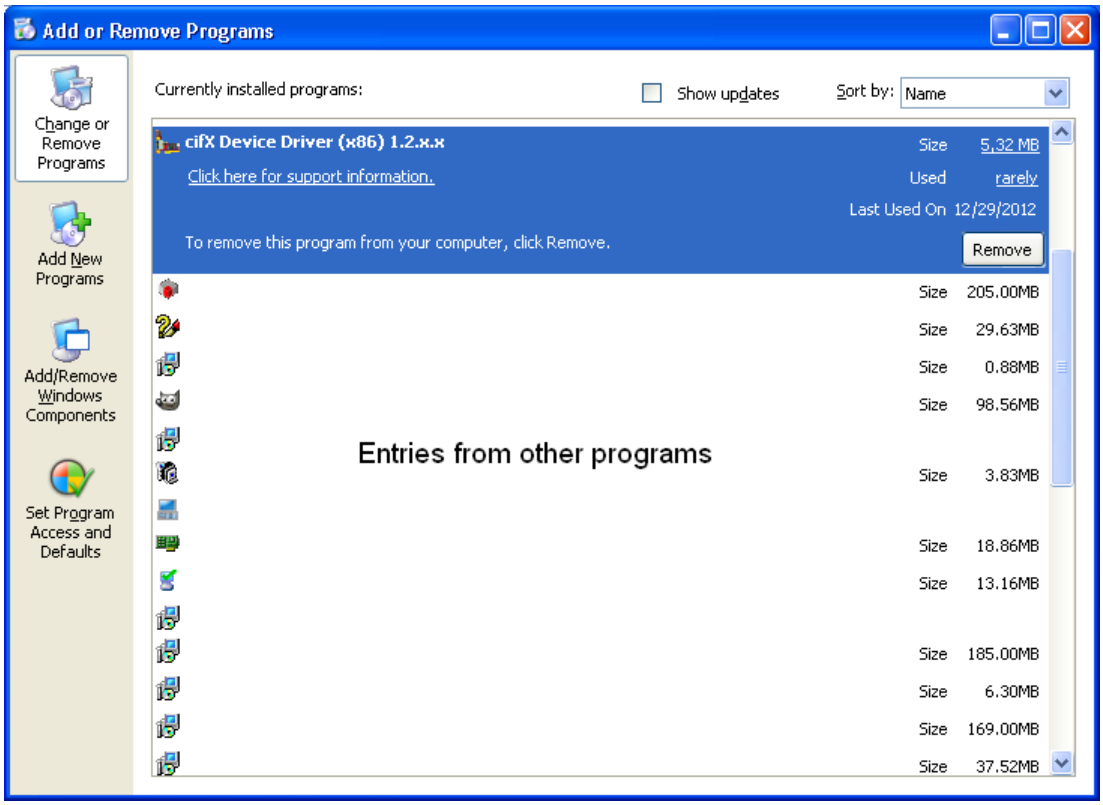

Figure 35: Add or Remove Programs

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

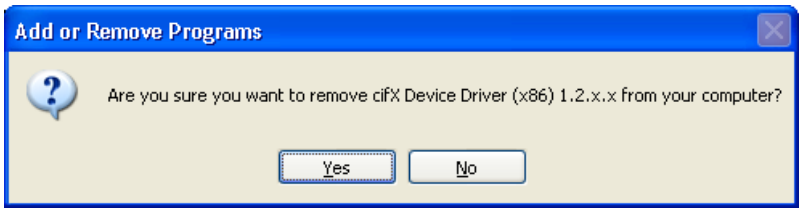

Figure 36: Acknowledge Uninstall

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

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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 Manage**r, 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:

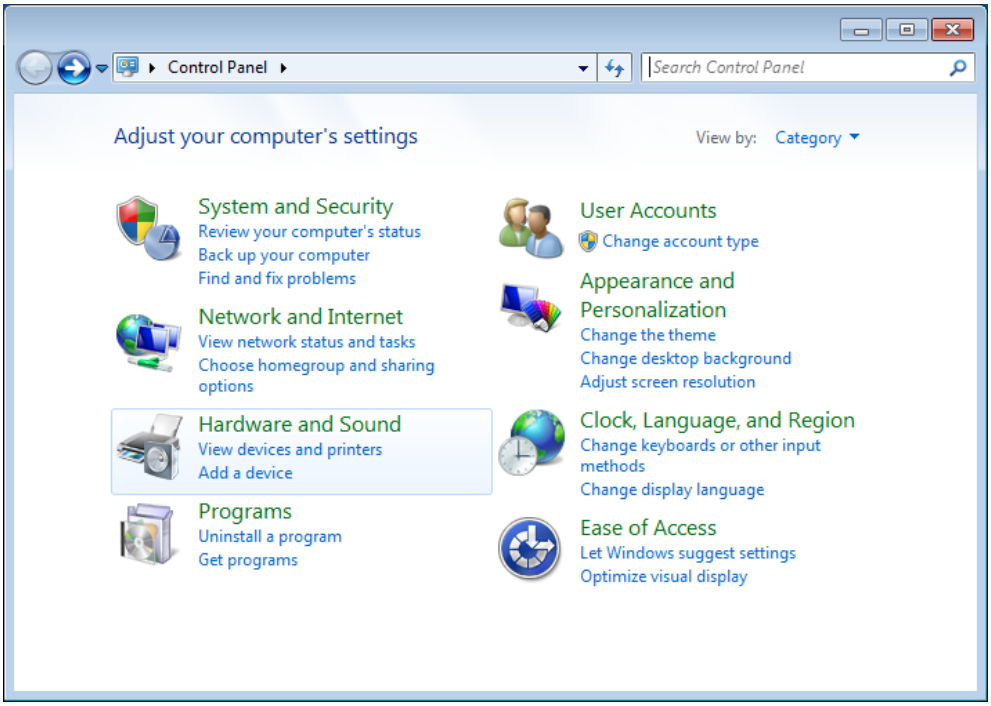

Figure 37: Adjust Your Computer's Settings Window

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

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

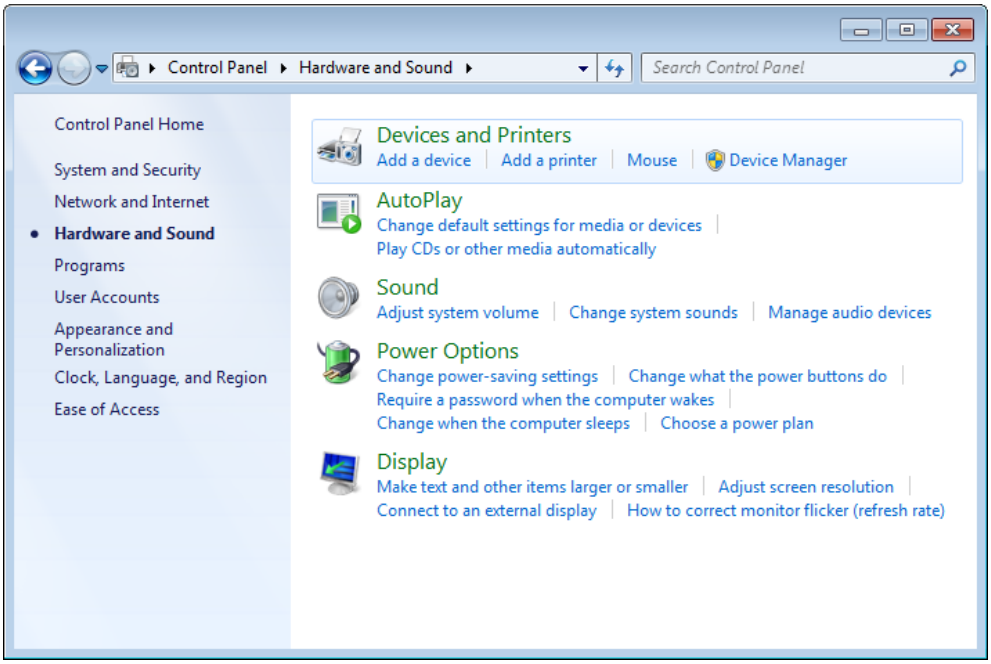

Figure 38: Hardware and Sound Window

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

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➮ The **Device Manager** starts.

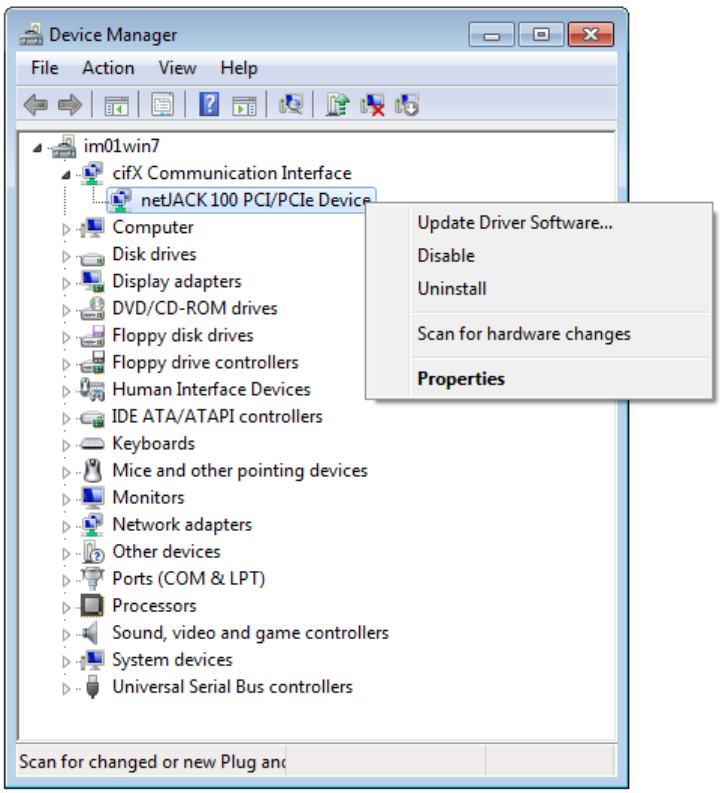

Figure 39: Display of Communication Module in Device Manager

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.

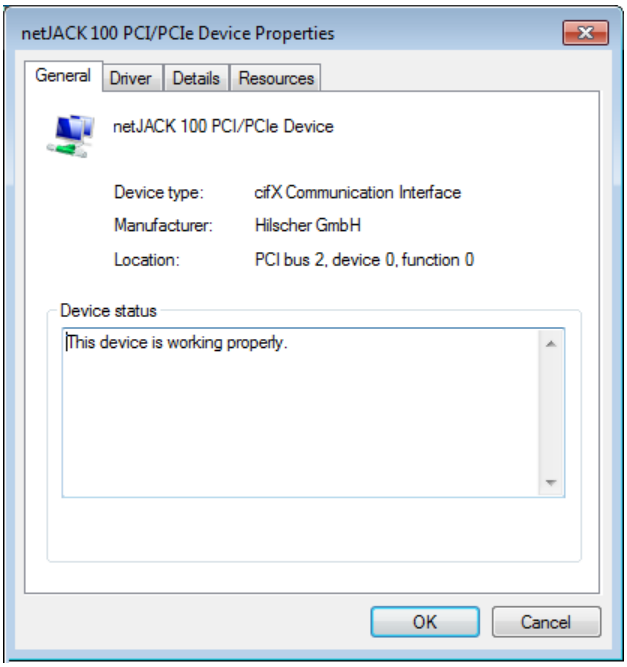

Figure 40: Properties of Communication Module in Device Manager

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➢ Choose **Driver** tab.

➮ The **Driver** tab opens.

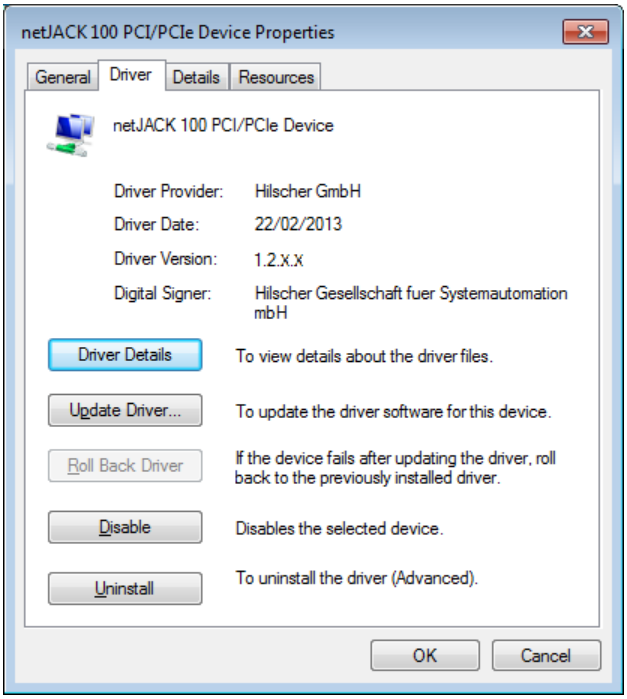

Figure 41: Driver of Communication Module in Device Manager

➢ Click **Uninstall**.

➮ The **Confirm Device Uninstall** dialog opens:

Figure 42: Delete Driver Software

➢ Select **Delete the driver software for this device** option.

➢ Click **OK**.

➮ The cifX Device Driver is being deleted.

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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:

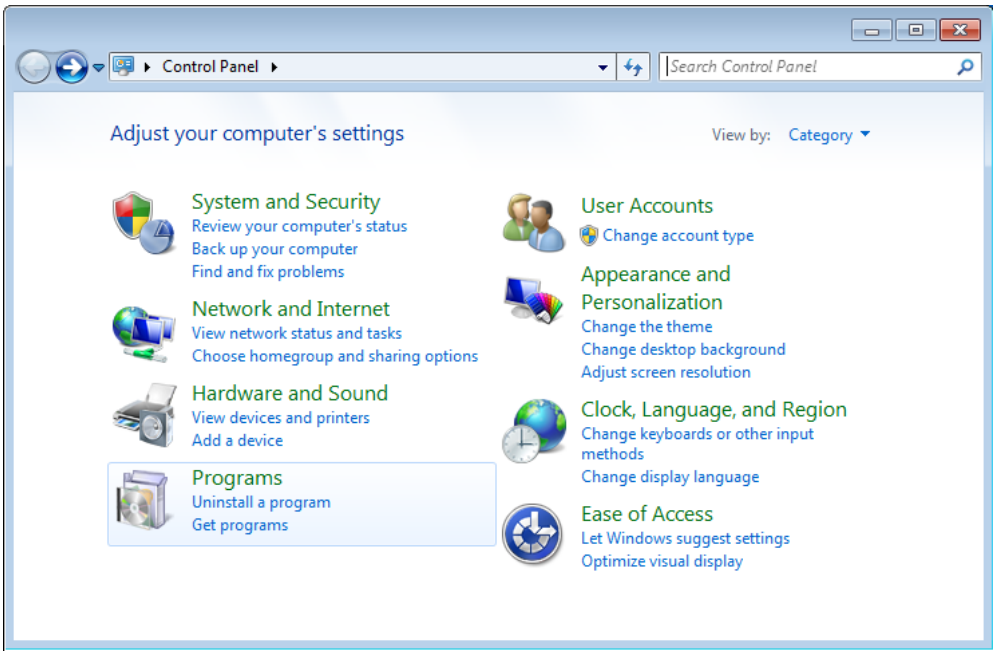

Figure 43: Adjust Your Computer's Settings Window

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

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

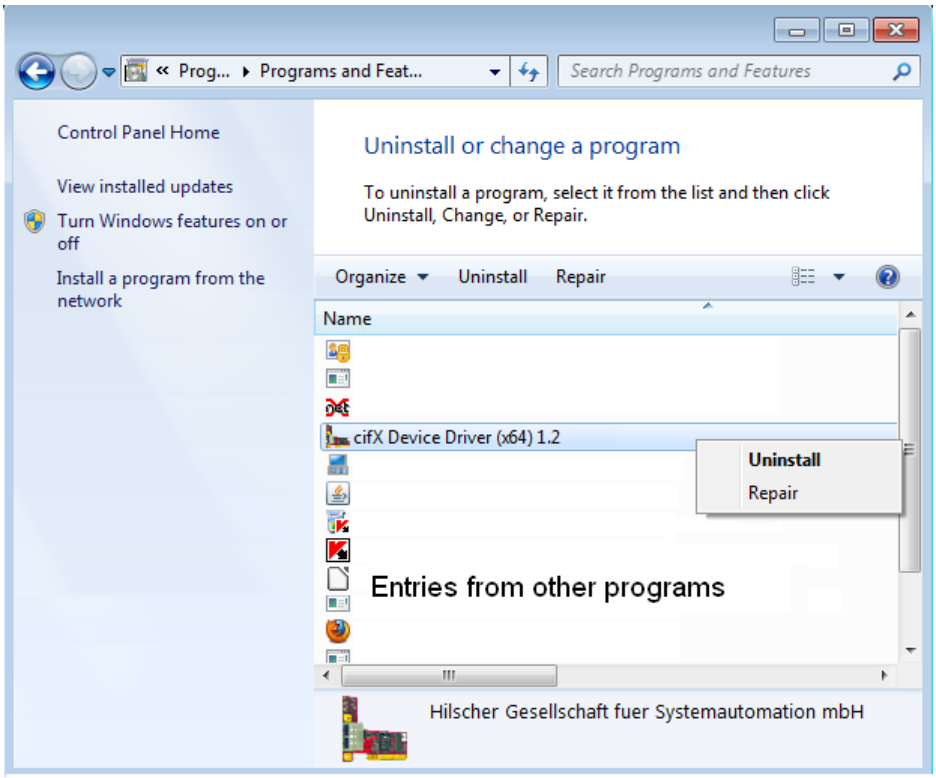

Figure 44: Uninstall or Change a Program Window

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

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A confirmation request appears:

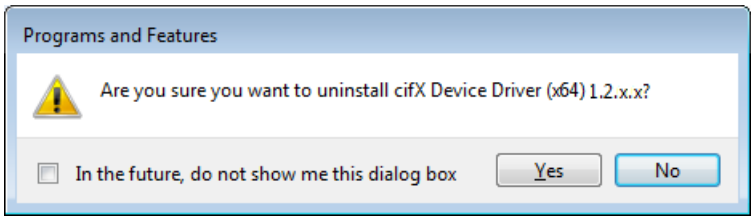

Figure 45: Confirmation Dialog

➢ Click **Yes**.

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

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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 Manage**r, 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:

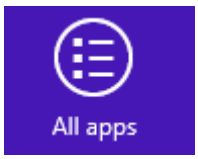

Figure 46: All Apps Button

➢ Click **All apps**.

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

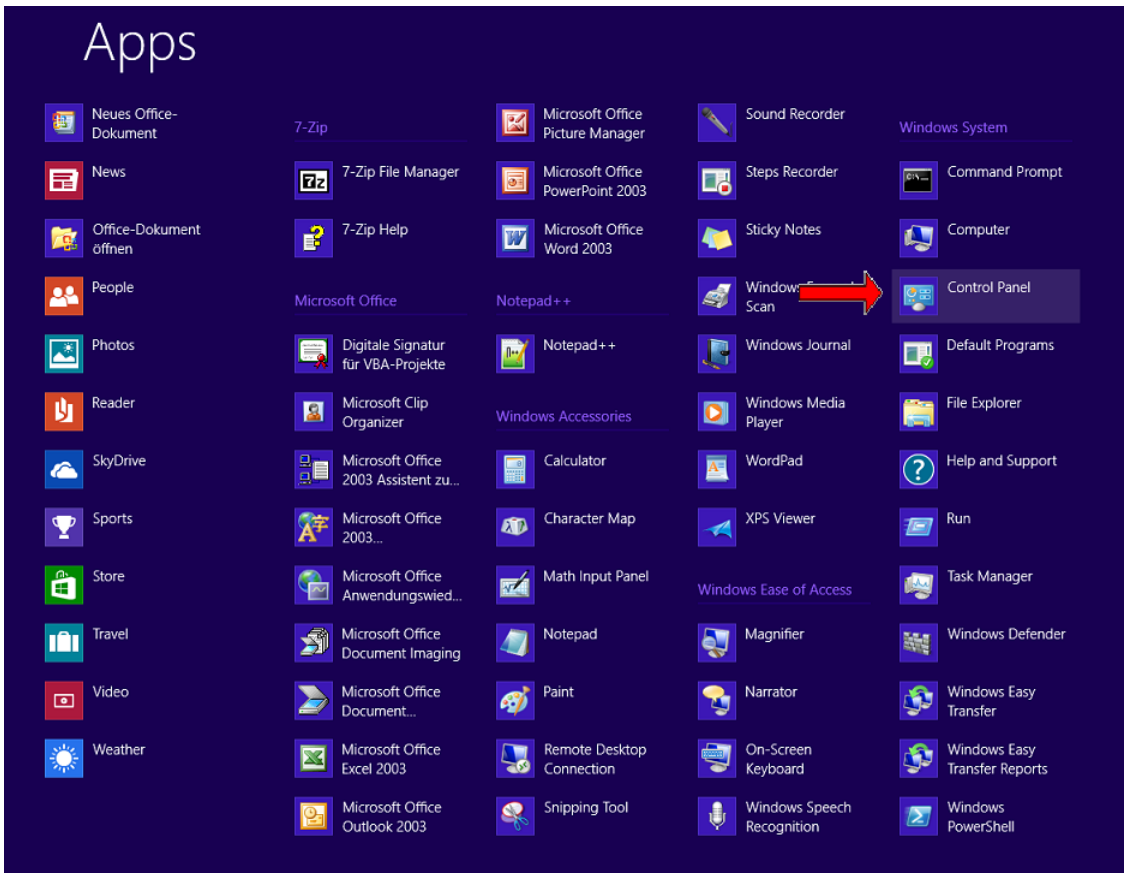

Figure 47: List of Installed Apps in Windows 8

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

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

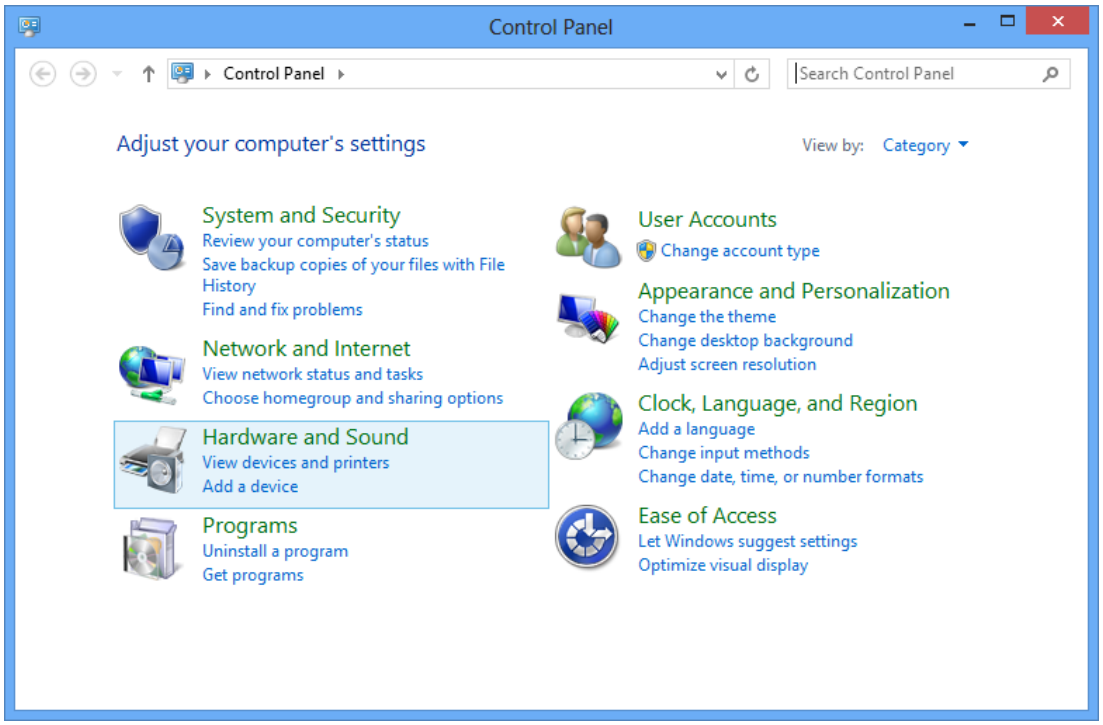

Figure 48: Control Panel

2. Open **Device Manager**.

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

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

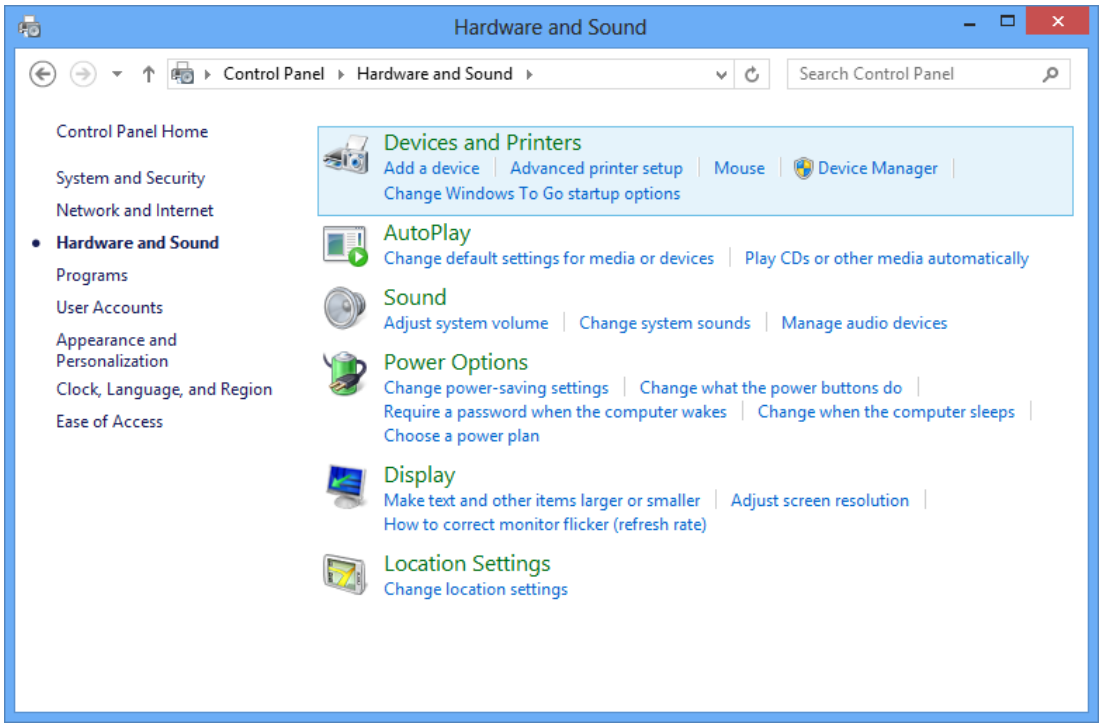

Figure 49: Hardware and Sound

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

➮ The **Device Manager** starts.

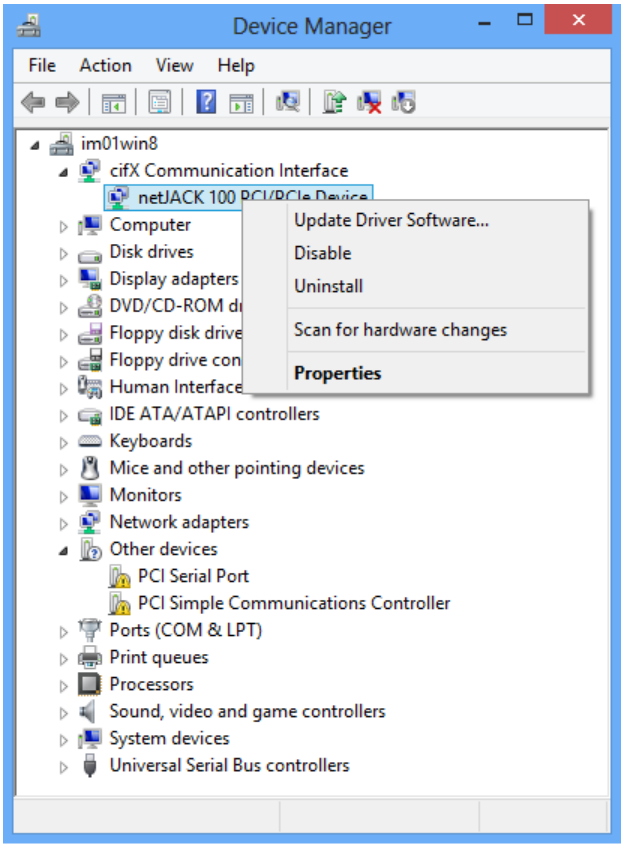

Figure 50: Display of Communication Module in Device Manager

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:

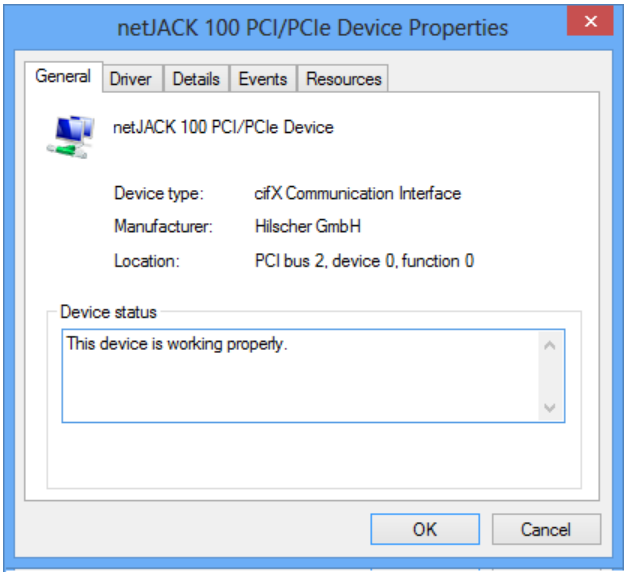

Figure 51: Properties of Communication Module in Device Manager

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➢ Choose **Driver** tab.

➮ The **Driver** tab opens.

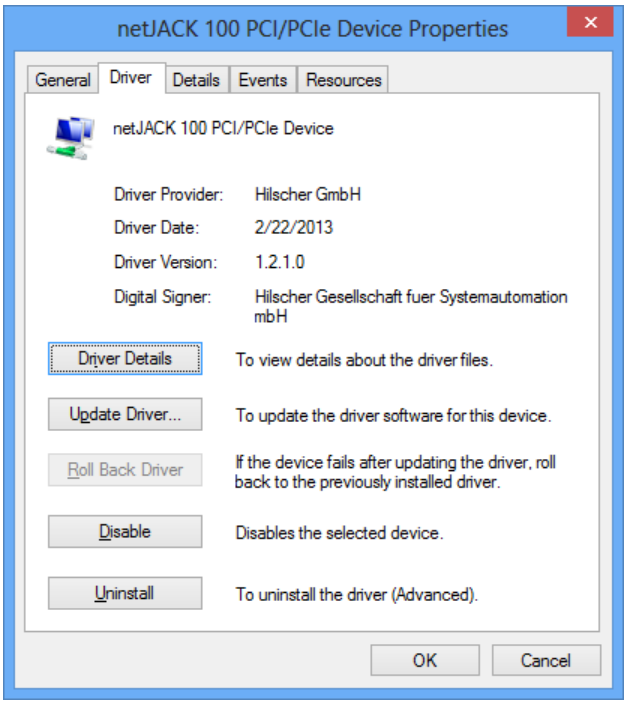

Figure 52: Driver of Communication Module in Device Manager

➢ Click **Uninstall**.

➮ The **Confirm Device Uninstall** dialog opens:

Figure 53: Delete Driver Software

➢ Select **Delete the driver software for this device** option.

➢ Click **OK**.

➮ The cifX Device Driver is being deleted.

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

➢ Open **Control Panel**.

➢ The **Control Panel** opens:

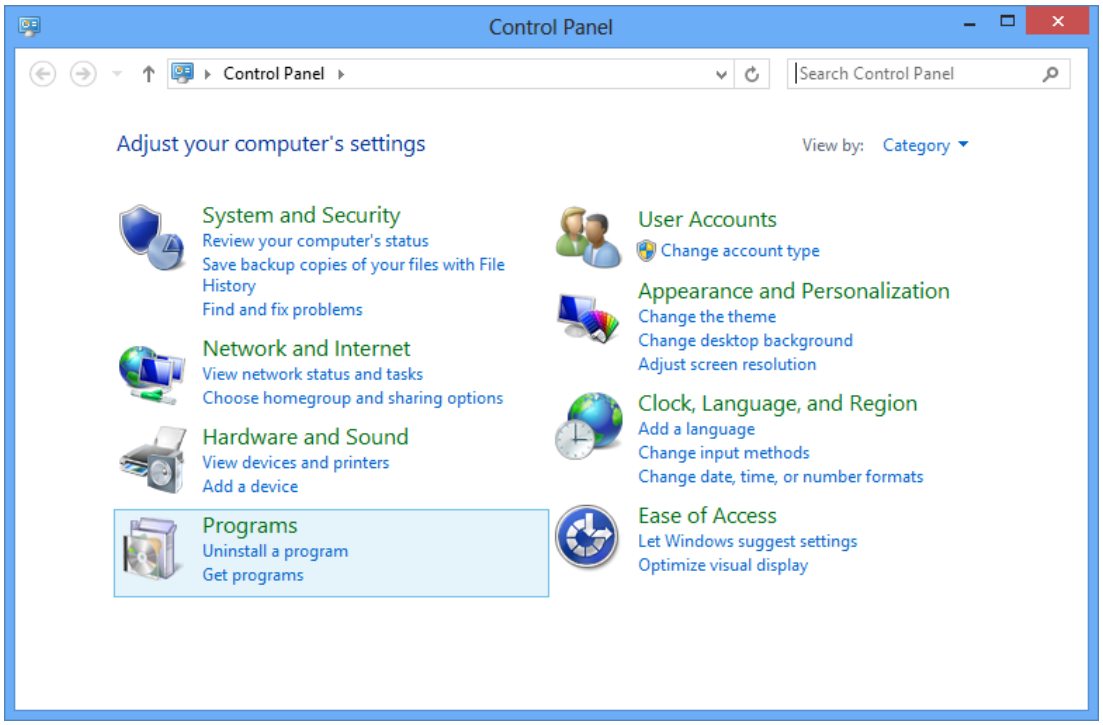

Figure 54: Control Panel

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

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

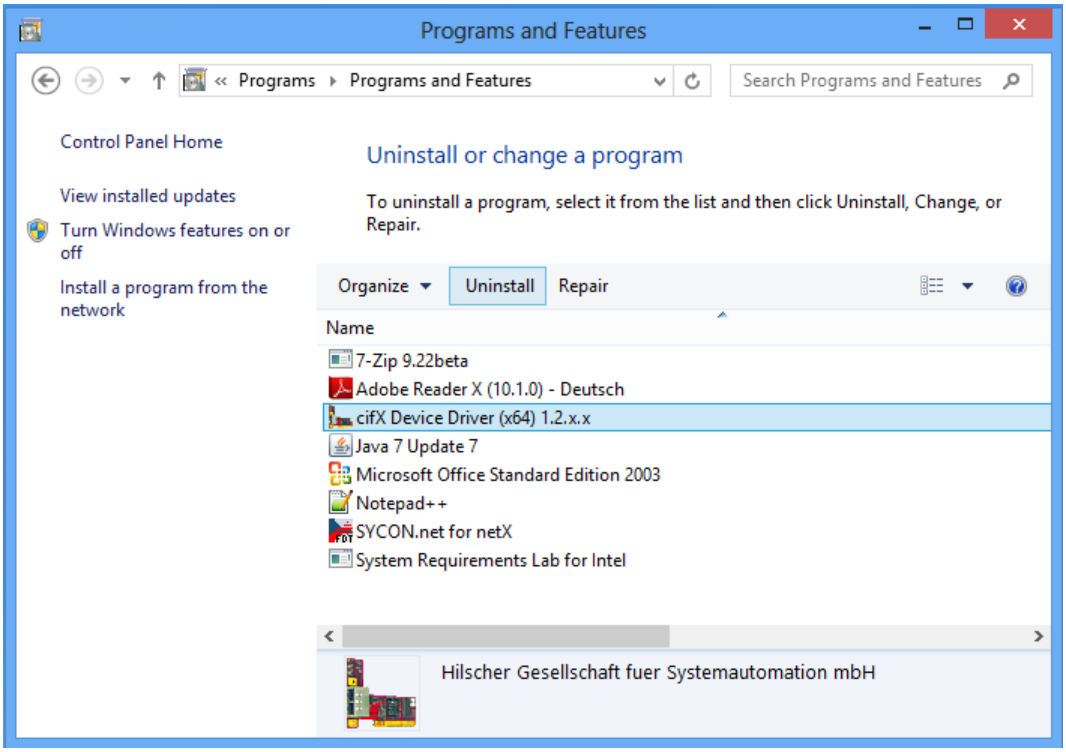

Figure 55: Uninstall or Change a Program Window

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

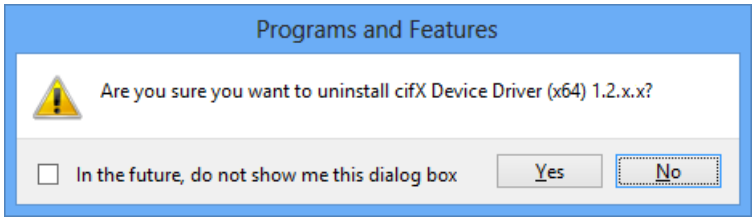

Figure 56: Acknowledge Uninstall

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

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2.3.4 Uninstalling cifX Device Driver under Windows 10

1. Open the **Programs and Features** dialog window.

➢ Right-click on the Windows **Start** symbol, then choose **Programs and Features** entry:

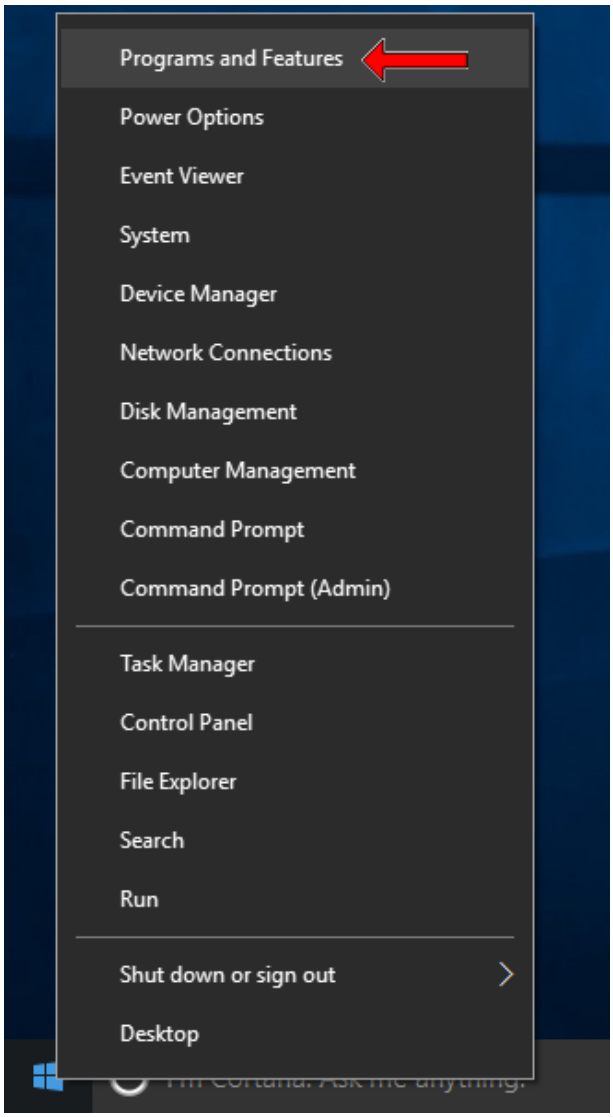

Figure 57: Open program manager in Windows 10

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

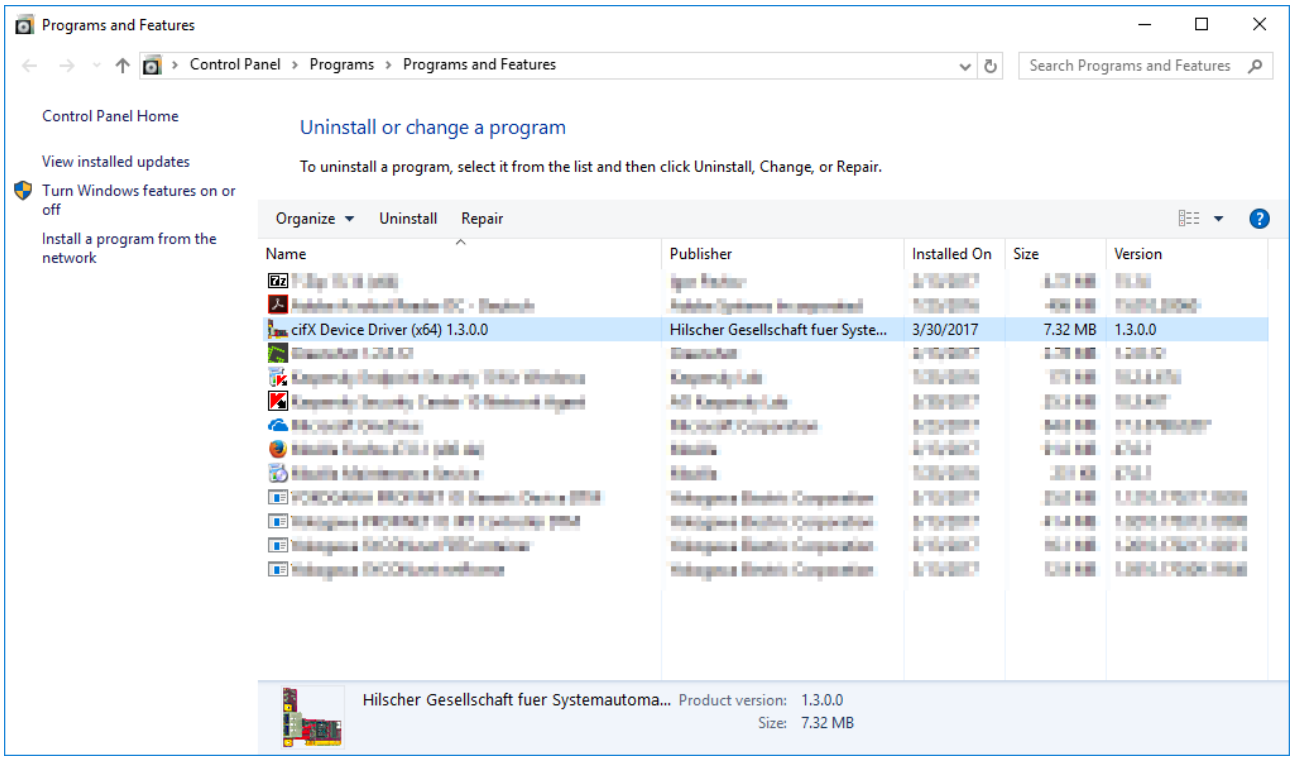

Figure 58: Uninstall or change a program window

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

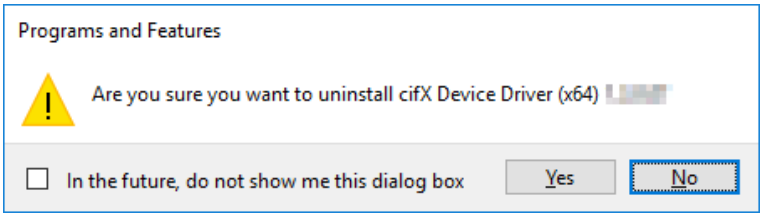

Figure 59: Acknowledge Uninstall

➢ Click **Yes**.
➧ The cifX Device Driver is being uninstalled from your PC.

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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 Diagnostic 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, Windows 8 and Windows 10. 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.

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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.

➢ Double-click the `Communication-Solutions.exe` file in the root directory of the un-zipped Communication SolutionsDVD.

➢ The Flash start screen **Communication Solutions** is displayed:

Figure 60: Start Screen Communication Solutions – Install USB Driver

➢ In the menu, select **Drivers, Software and Tools** > **Install USB Diagnosis 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 Diagnostic Driver` folder of the Communication Solutions DVD.

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

Figure 61: Device Driver Installation Wizard – Start Screen

2. Start the installation.

➢ Click **Next**.

➧ The installation of the USB drivers is started.

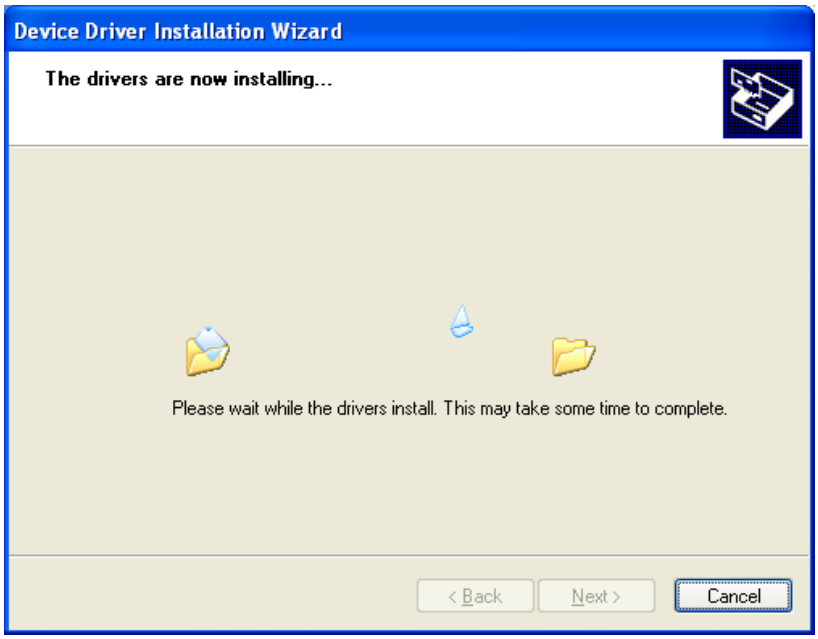

Figure 62: Device Driver Installation Wizard – Driver Are Installing

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

Figure 63: 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 64: Found New Hardware Wizard – USB Driver (1)

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- 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:

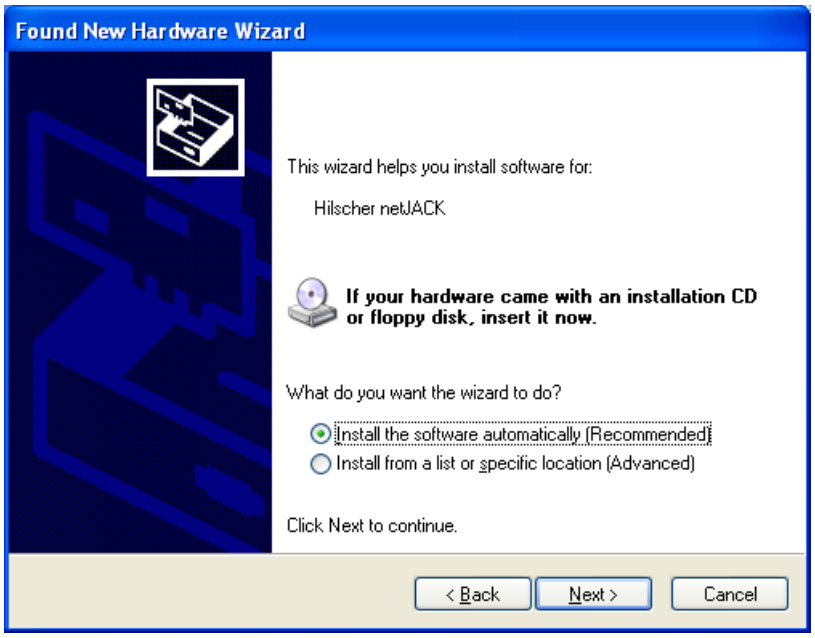

Figure 65: Found New Hardware Wizard – USB Driver (2)

- 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.

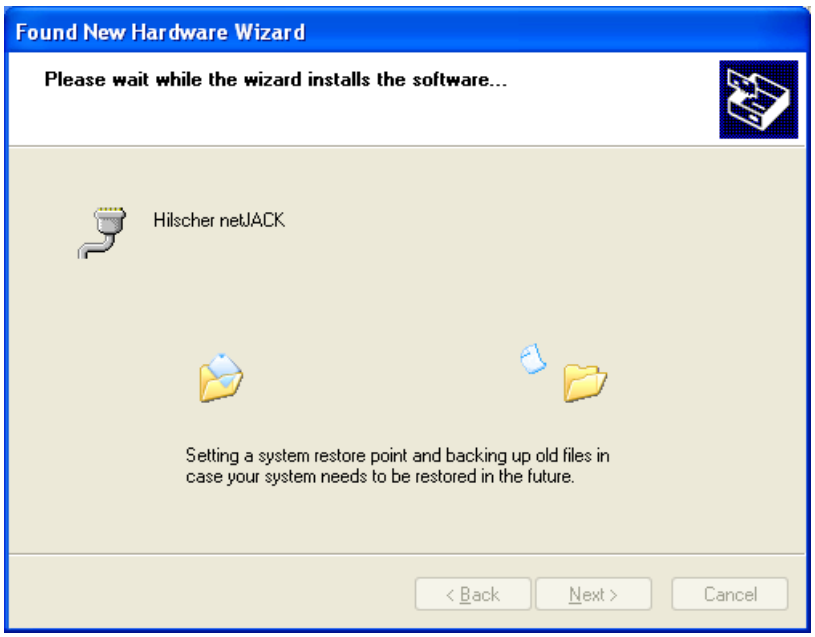

Figure 66: Found New Hardware Wizard – USB Driver (3)

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

Figure 67: Found New Hardware Wizard – USB Driver (4)

➢ Click **Finish**.

➮ The installation of the USB driver is now complete.

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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:

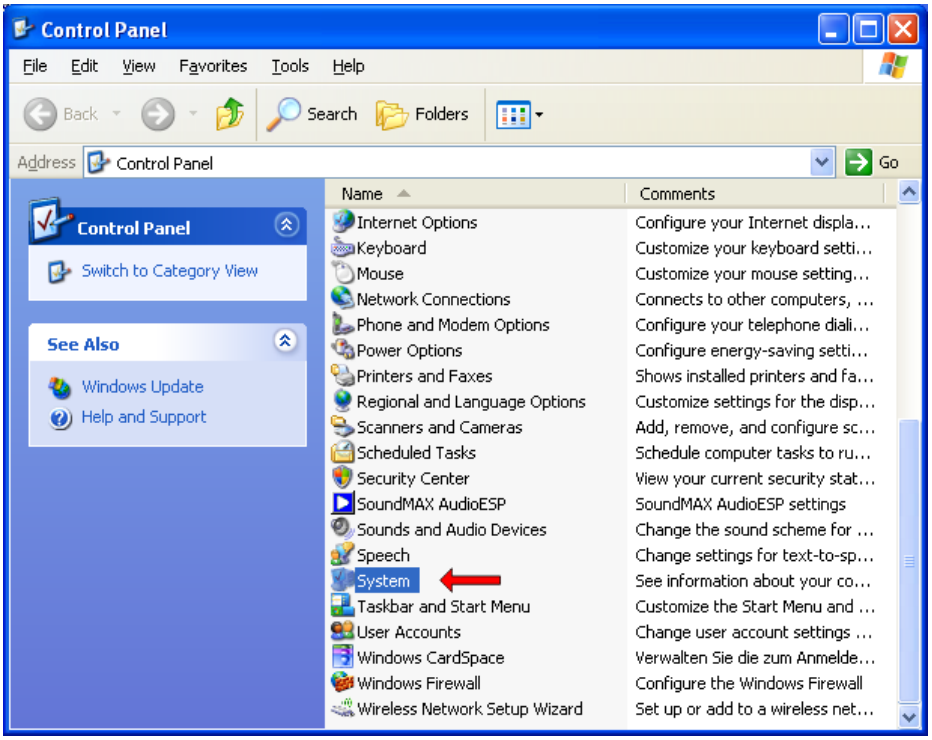

Figure 68: Control Panel

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

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➮ The **System Properties** sheet opens:

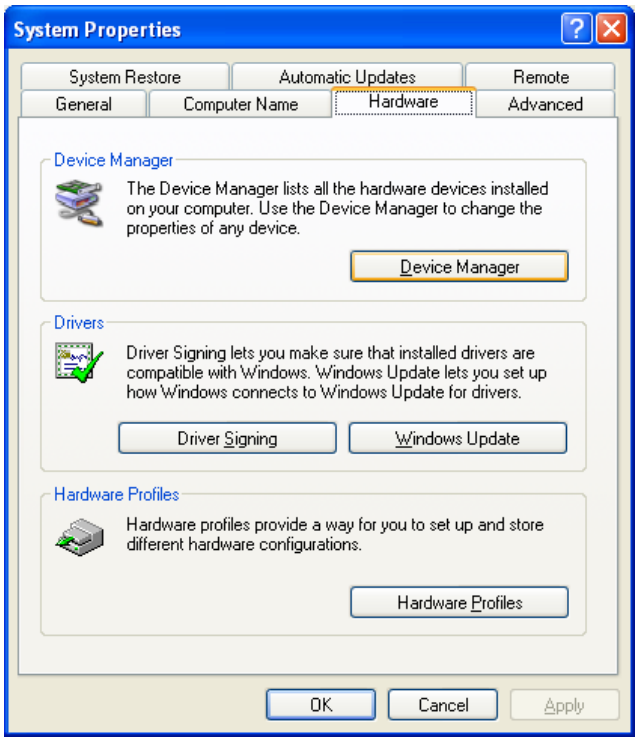

Figure 69: System Properties

➢ In the **System Properties** sheet, select **Hardware** tab.

➢ In the **Hardware** tab, click **Device Manager**.

➮ The **Device Manager** starts:

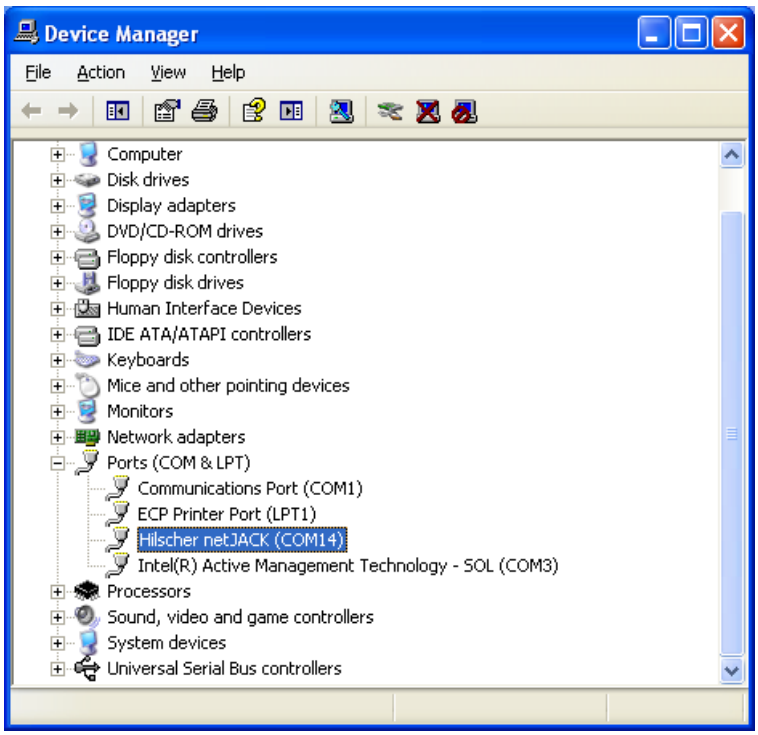

Figure 70: Display of USB Connection in Device Manager

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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.

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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.

➢ Double-click the `Communication-Solutions.exe` file in the root directory of the un-zipped Communication SolutionsDVD.

➢ The Flash start screen **Communication Solutions** is displayed:

Figure 71: Start Screen Communication Solutions – Install USB Driver

➢ In the menu, select **Drivers, Software and Tools** > **Install USB Diagnosis 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 Diagnostic Driver` folder of the Communication Solutions DVD.

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

Figure 72: Device Driver Installation Wizard – Start Screen

2. Start the installation.

➢ Click **Next**.

➧ The installation of the USB drivers is started.

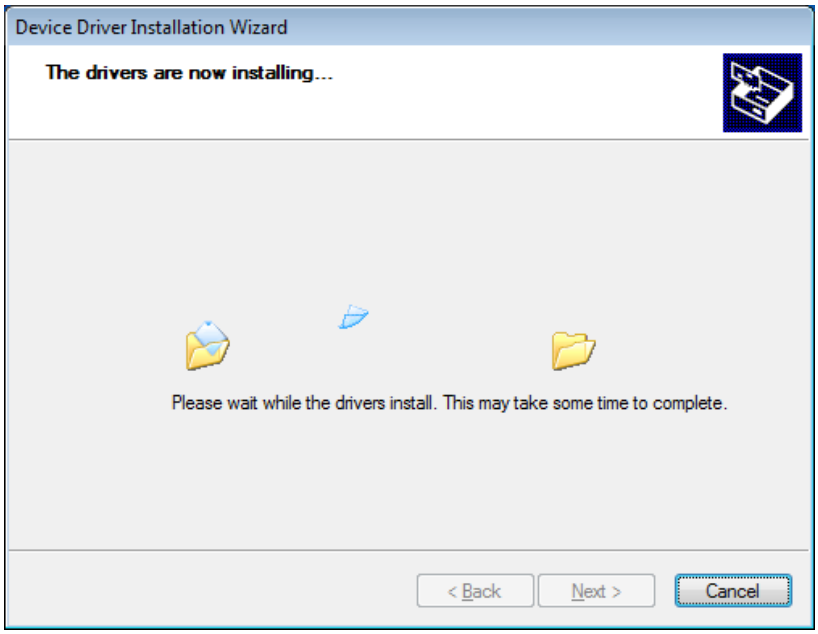

Figure 73: Device Driver Installation Wizard – Drivers Are Installing

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

Figure 74: 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.

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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:

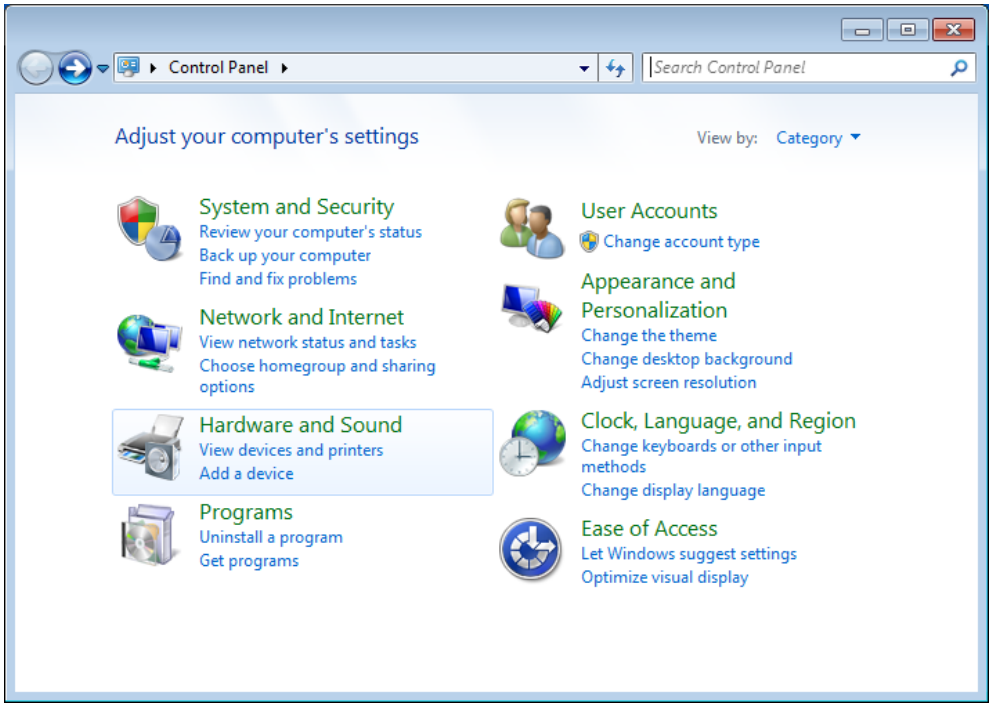

Figure 75: Adjust Your Computer's Settings Window

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

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

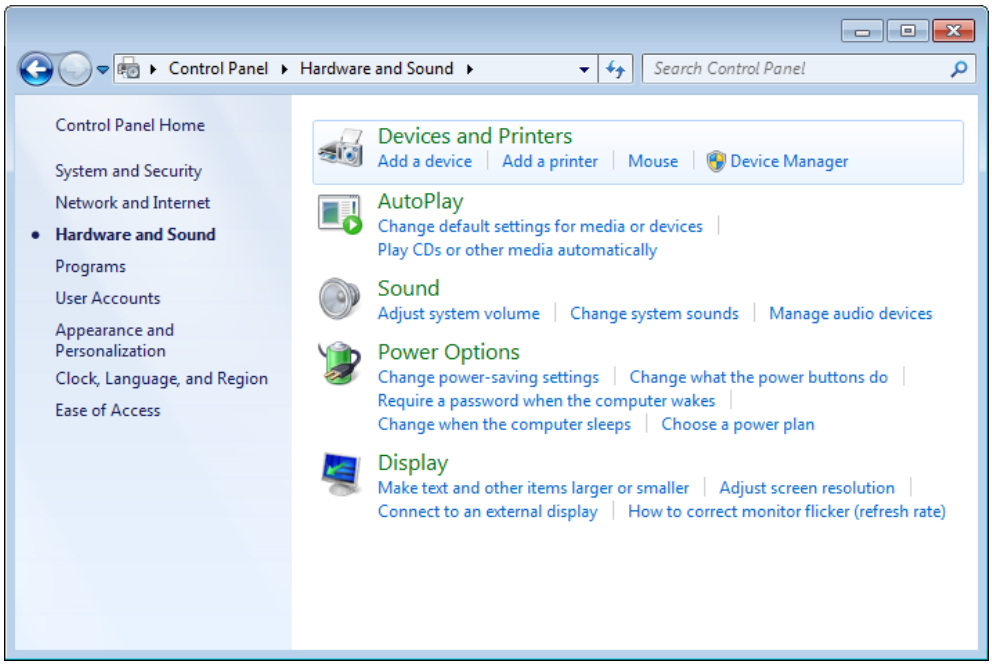

Figure 76: Hardware and Sound Window

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

➢ The **Device Manager** starts:

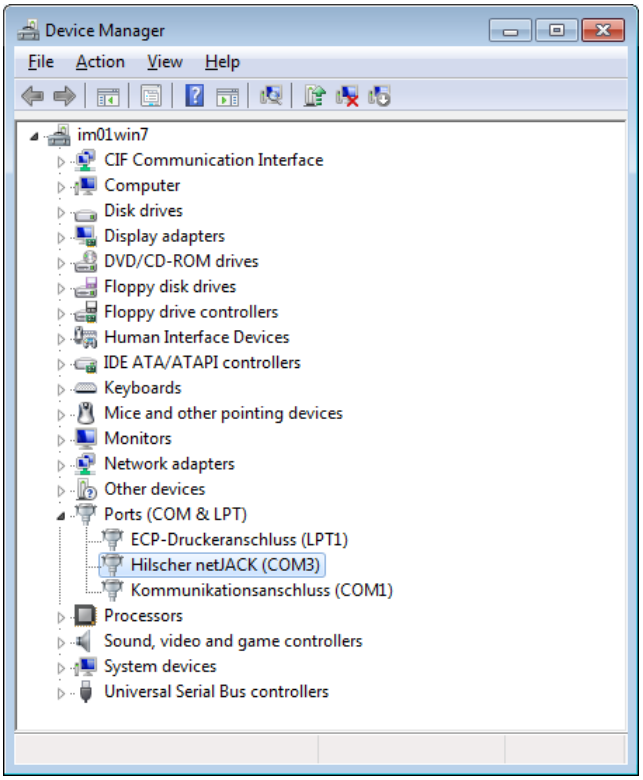

Figure 77: Display of USB Connection in Device Manager

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.

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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.

➢ Double-click the `Communication-Solutions.exe` file in the root directory of the un-zipped Communication SolutionsDVD.

➢ The Flash start screen **Communication Solutions** is displayed:

Figure 78: Start Screen Communication Solutions – Install USB Driver

➢ In the menu, select **Drivers, Software and Tools** > **Install USB Diagnosis 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 Diagnostic Driver` folder of the Communication Solutions DVD.

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

Figure 79: Device Driver Installation Wizard – Start Screen

2. Start the installation.

➢ Click **Next**.

➧ The installation of the USB drivers is started.

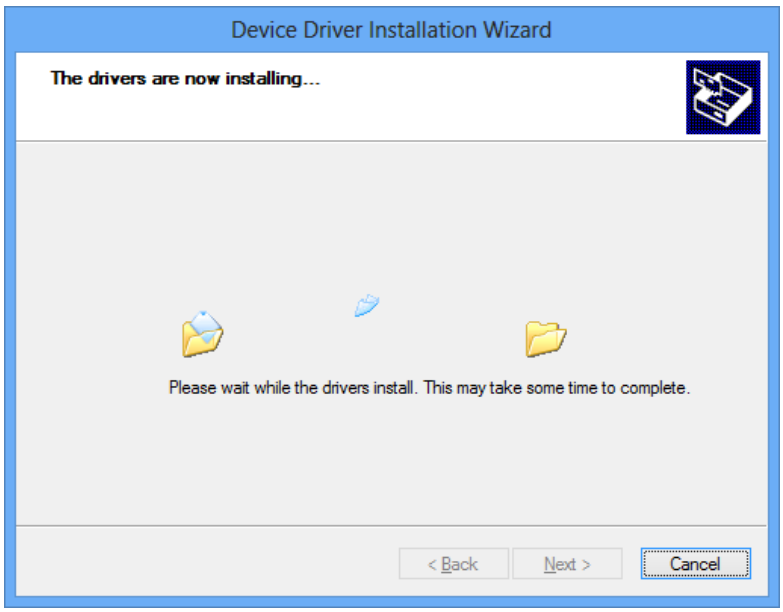

Figure 80: Device Driver Installation Wizard – Drivers Are Installing

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

Figure 81: 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.

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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:

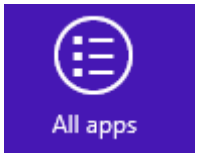

Figure 82: All Apps Button

➢ Click **All apps**.

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

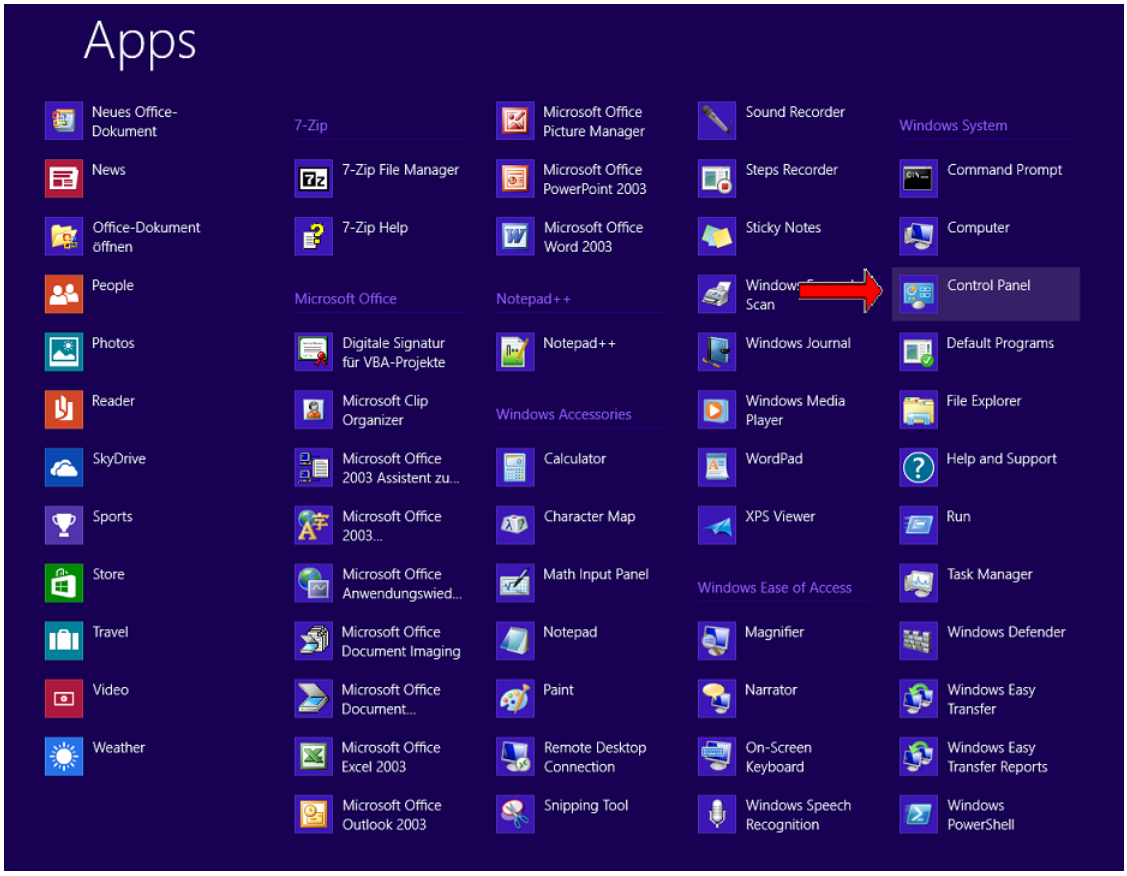

Figure 83: List of Installed Apps in Windows 8

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

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

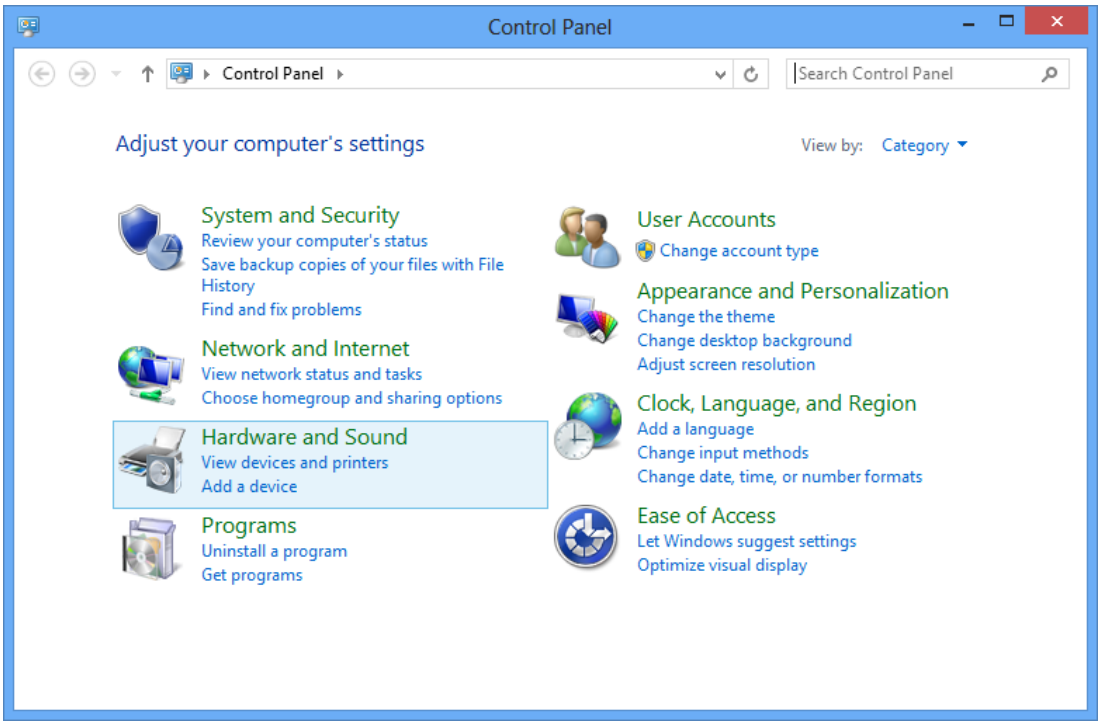

Figure 84: Control Panel

2. Open **Device Manager**.

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

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

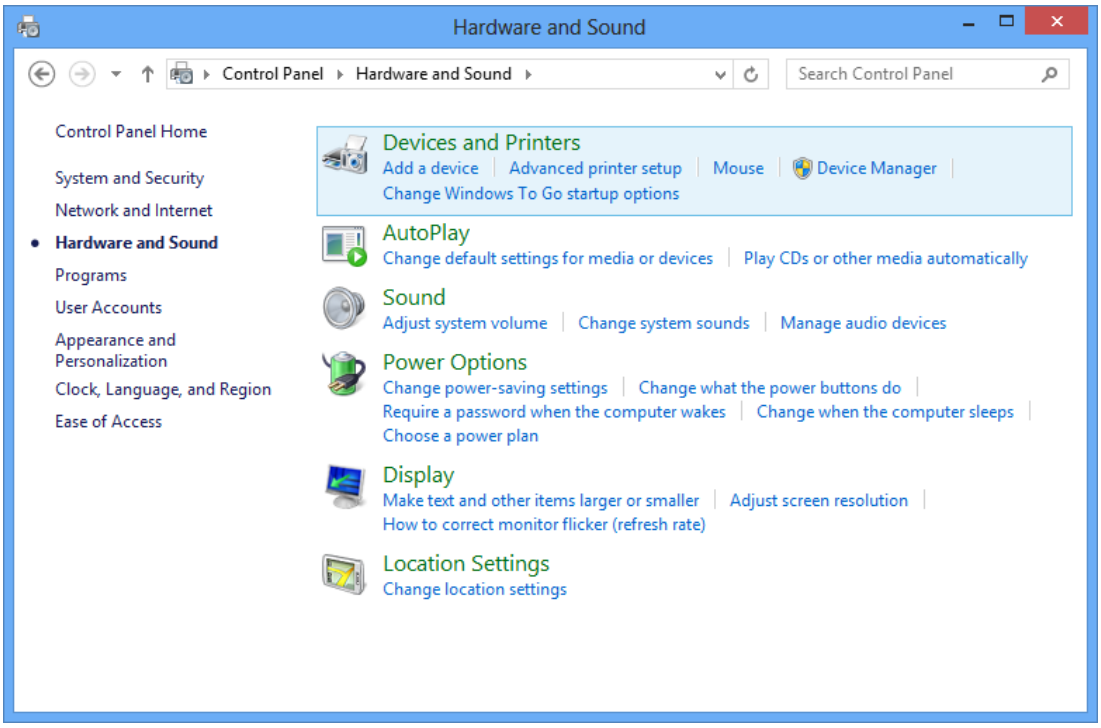

Figure 85: Hardware and Sound

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

➢ The **Device Manager** starts:

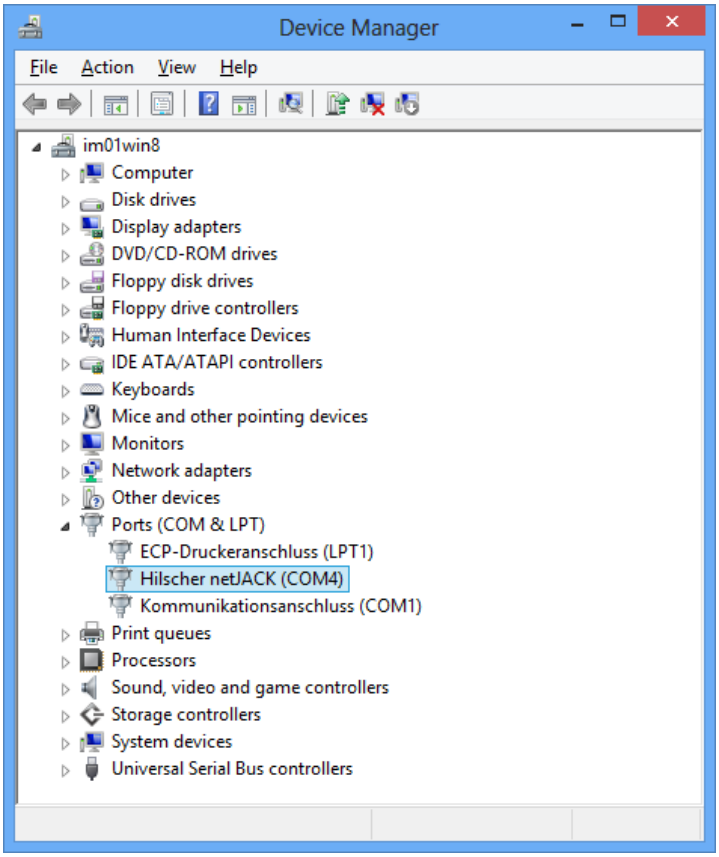

Figure 86: Display of USB Connection in Device Manager

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.

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3.2.4 Installing USB Driver under Windows 10

3.2.4.1 Installing USB Driver by Installation Program

1. Start the USB Driver setup program.

➢ Double-click the `Communication-Solutions.exe` file in the root directory of the un-zipped Communication SolutionsDVD.

➮ The Flash start screen **Communication Solutions** is displayed:

Figure 87: Start Screen Communication Solutions – Install USB Driver

➢ In the menu, select **Drivers, Software and Tools** > **Install USB Diagnosis 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 Diagnostic Driver` folder of the Communication Solutions DVD.

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

Figure 88: Device Driver Installation Wizard – Start Screen

2. Start the installation.

➢ Click **Next**.

➧ The installation of the USB drivers is started.

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

Figure 89: Device Driver Installation Wizard – Installation Completed

➢ Click **Finish**.

➧ The installation of the USB driver is completed.

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Note: By completing the **Device Driver Installation Wizard**, the installation process under Windows 10 is practically finished.
When you connect the communication module to the PC via USB cable for the first time, the following icon 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.

3.2.4.2 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 10 if the driver has been correctly installed and if Windows recognizes the communication module.

1. Open the **Device Manager**.

➢ Right-click on the Windows **Start** symbol, then choose **Device Manager** entry:

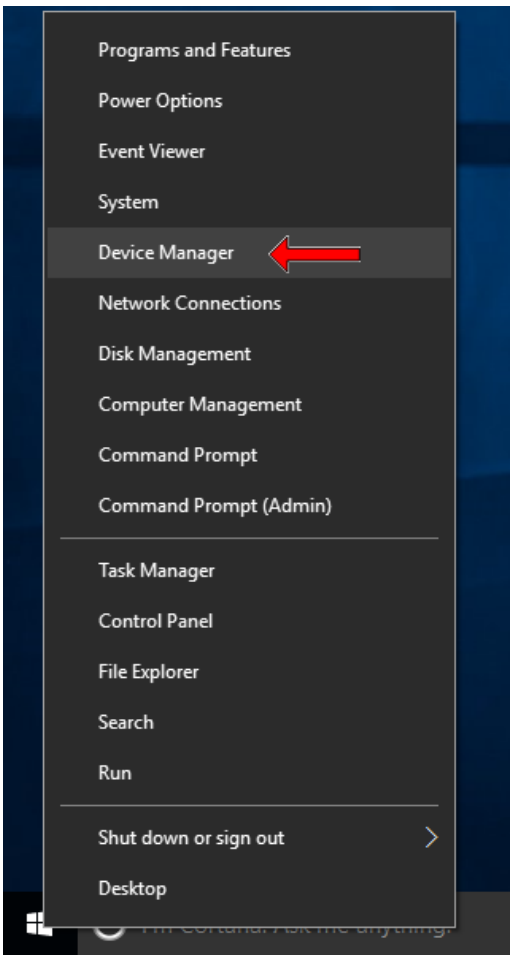

Figure 90: Open Device Manager in Windows 10

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➧ The **Device Manager** starts:

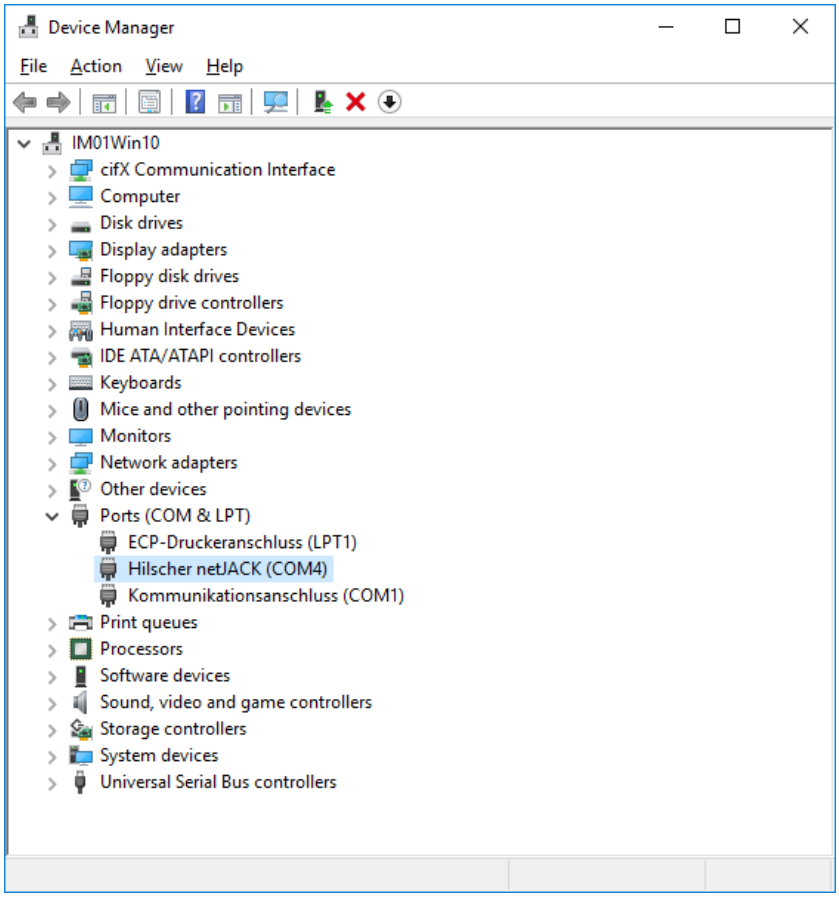

Figure 91: Display of Communication Module in Device Manager

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.

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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:

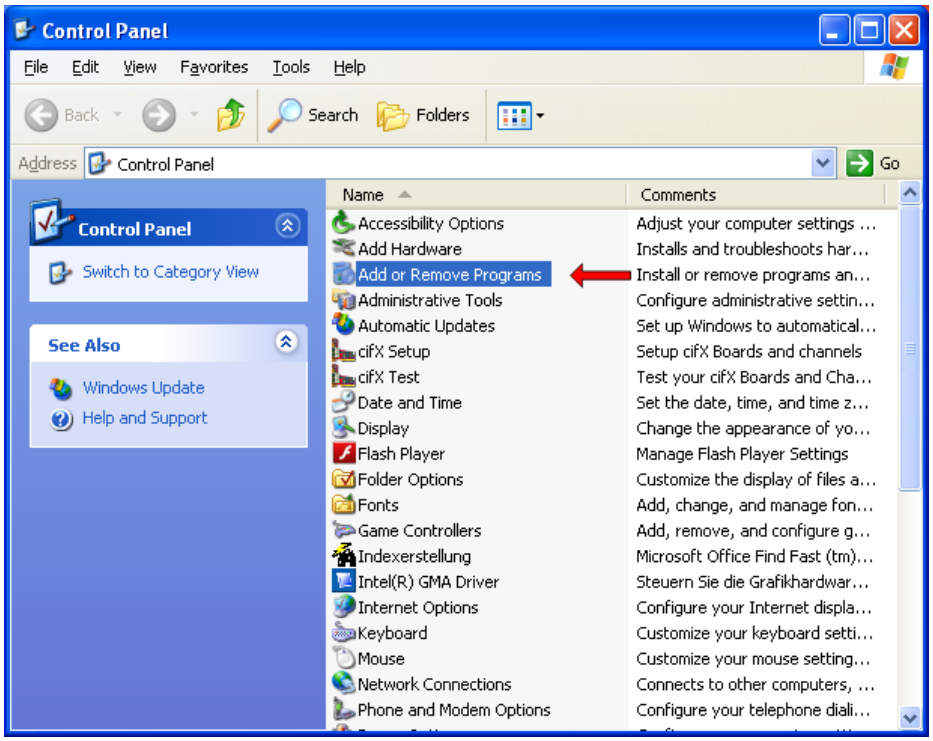

Figure 92: Control Panel

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

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

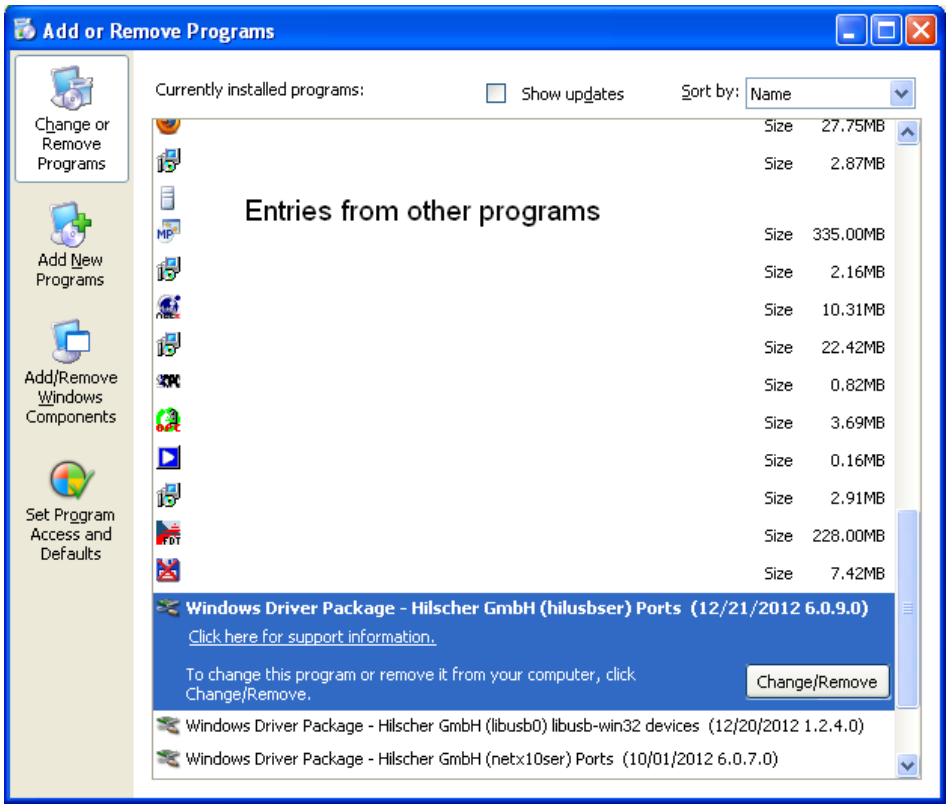

Figure 93: Add or Remove Programs

➢ Select **Windows Driver Package – Hilscher GmbH (hilusbser) Ports** entry.

➢ Click **Change/Remove**.

➧ A security question appears:

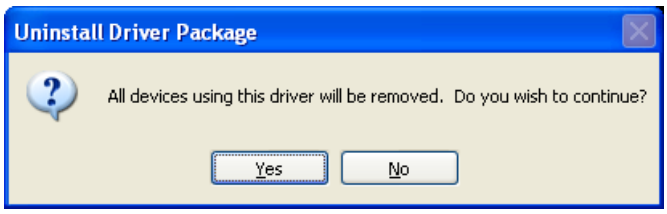

Figure 94: Acknowledge Uninstall

➢ 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**.

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3.3.2 Uninstalling USB Driver under Windows 7

➢ In the **Start** menu of Windows 7, select **Control Panel**.

➮ The **Control Panel** opens:

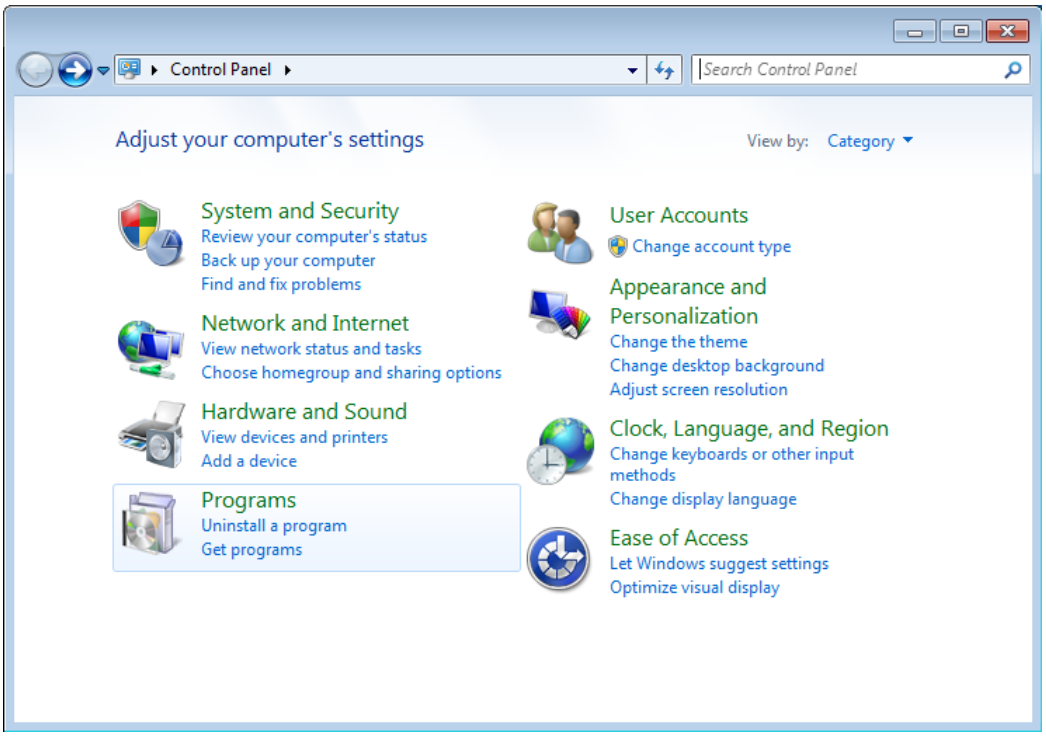

Figure 95: Adjust Your Computer's Settings Window

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

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

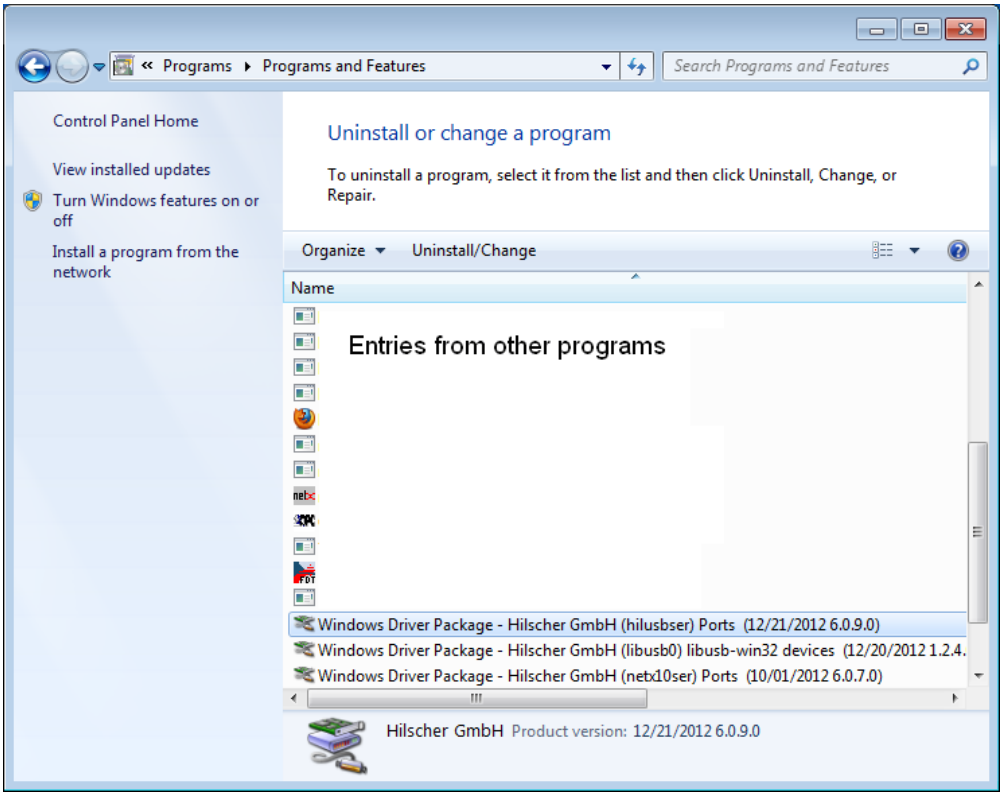

Figure 96: Uninstall or Change a Program

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

A security question appears:

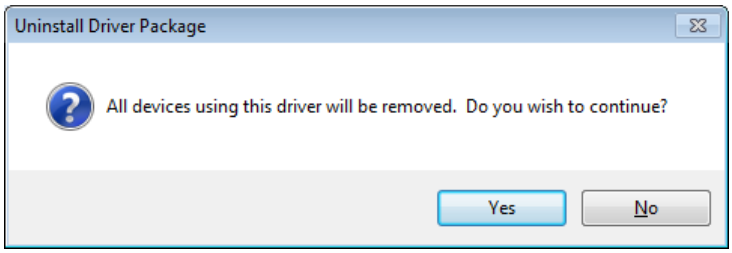

Figure 97: Acknowledge Uninstall

- 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**.

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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:

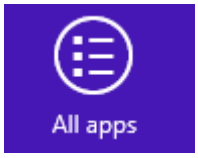

Figure 98: All Apps Button

➢ Click **All apps**.

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

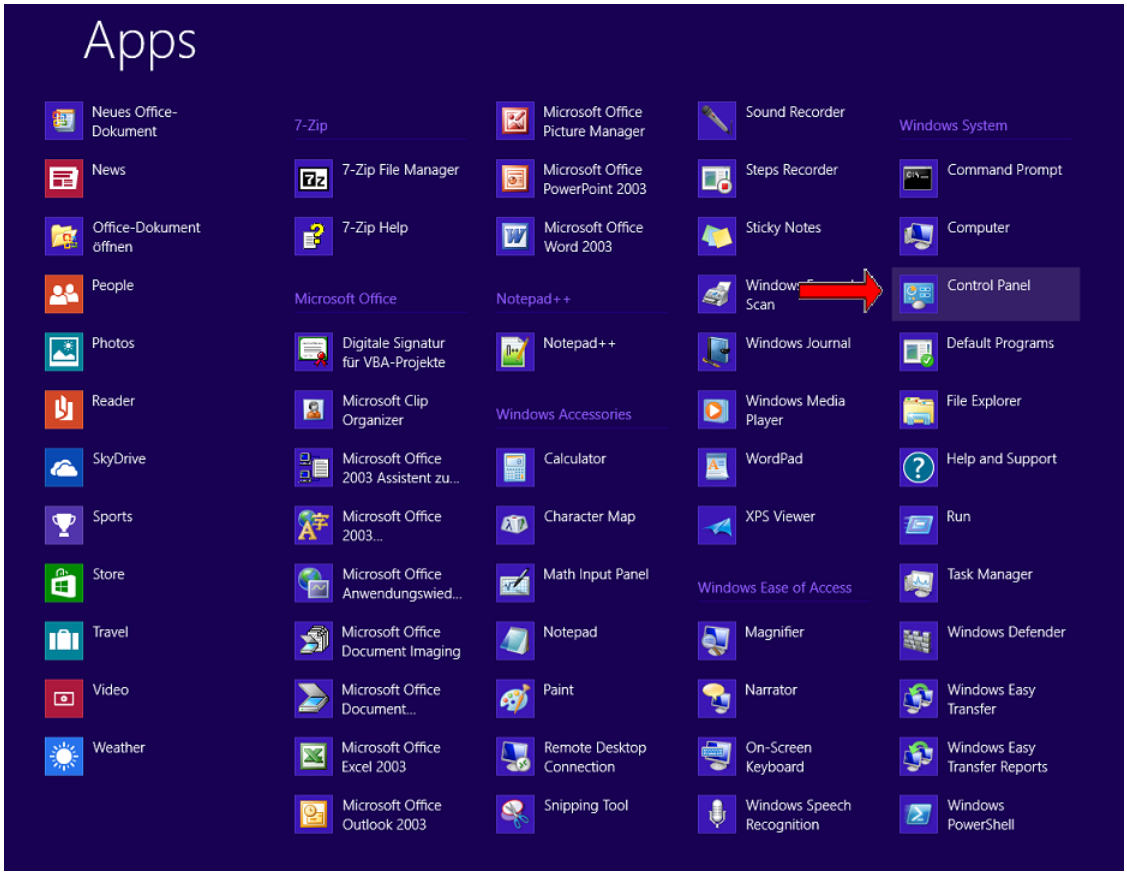

Figure 99: List of Installed Apps in Windows 8

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

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

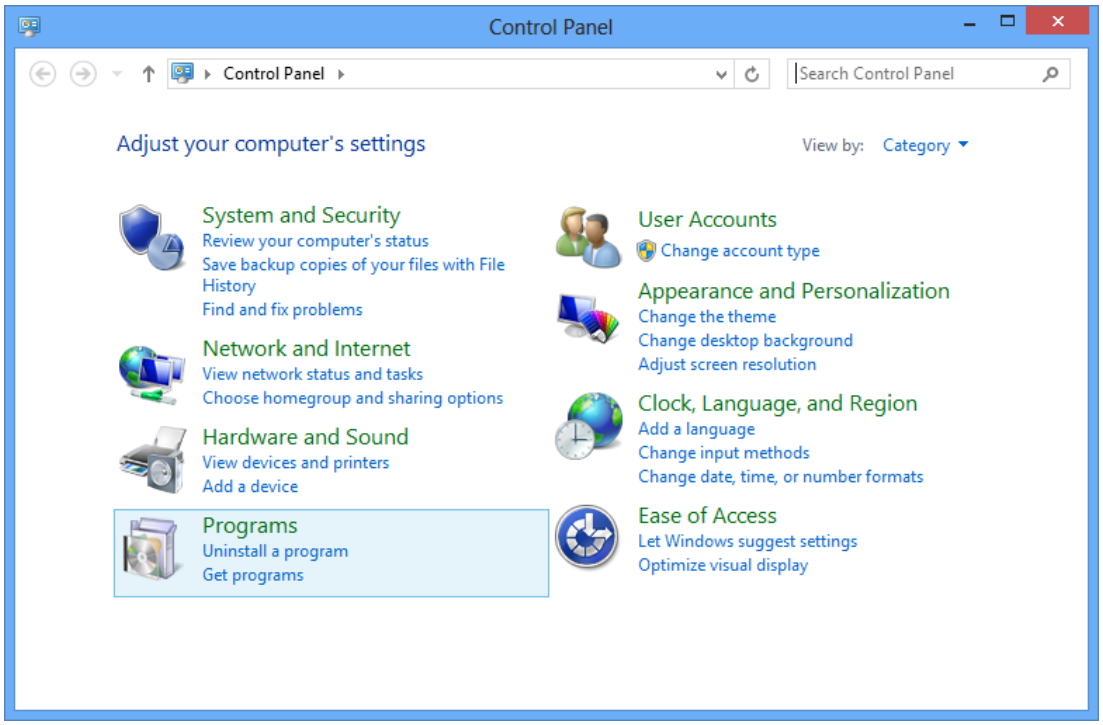

Figure 100: Control Panel

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

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

The **Programs and Features** window opens:

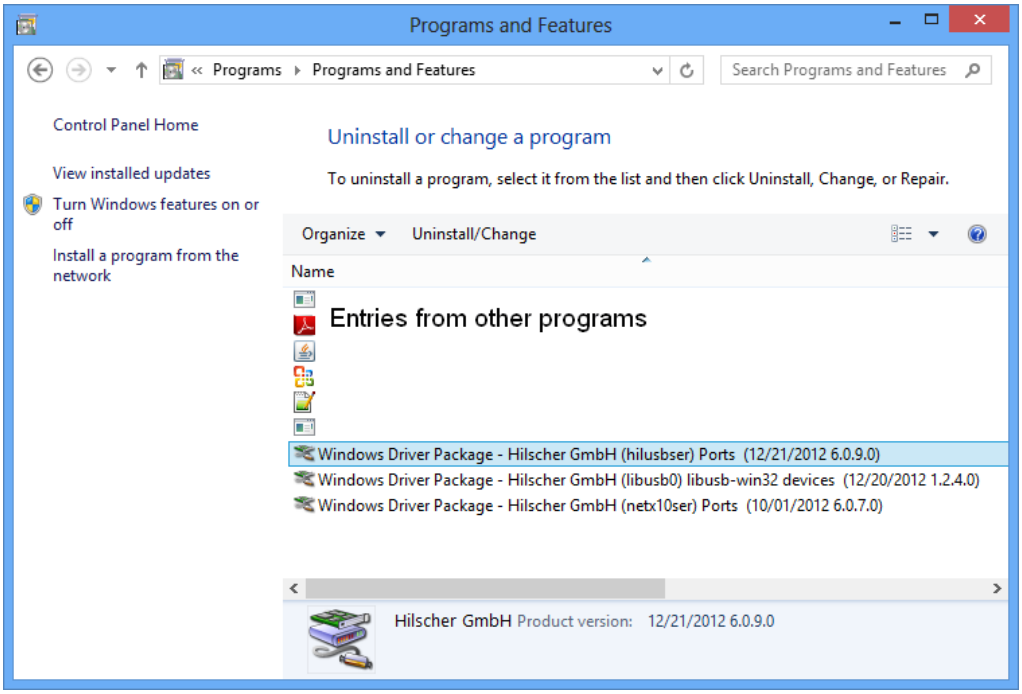

Figure 101: Uninstall or Change a Program

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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:

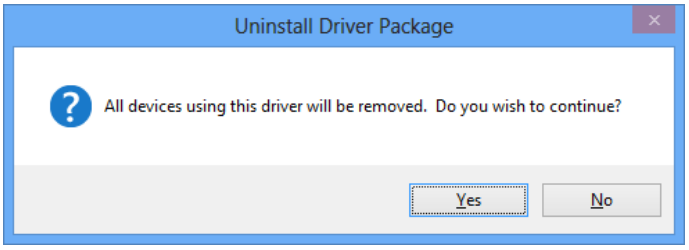

Figure 102: Acknowledge Uninstall

➢ 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**.

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3.3.4 Uninstalling USB Driver under Windows 10

1. Open the **Programs and Features** dialog window.

➢ Right-click on the Windows **Start** symbol, then choose **Programs and Features** entry:

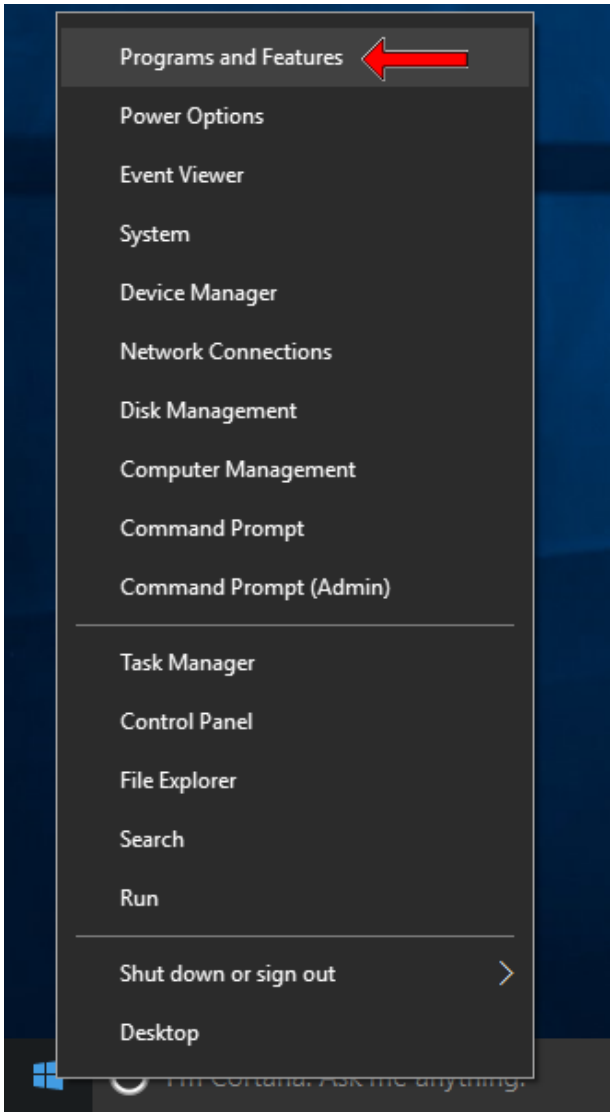

Figure 103: Open program manager in Windows 10

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

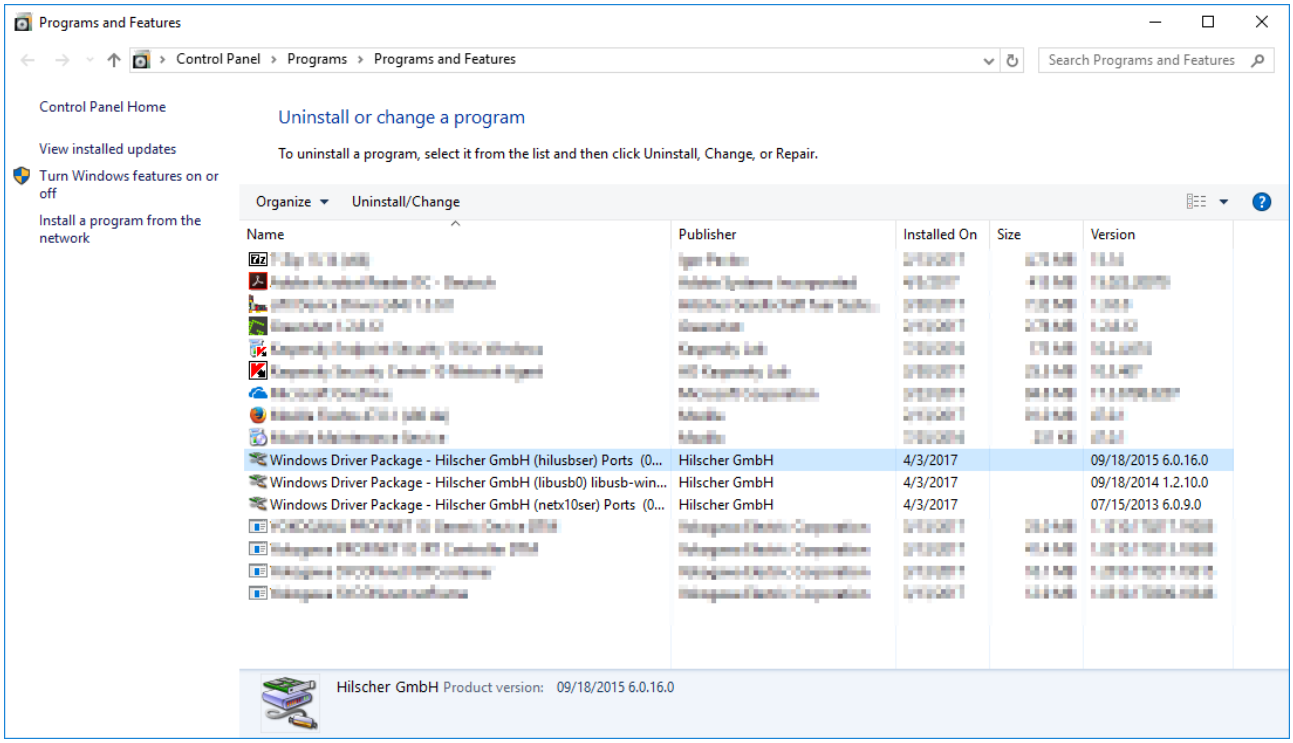

Figure 104: Uninstall or change a program window

➢ Select **Windows Driver Package – Hilscher GmbH (hilusbser) Ports** entry.

➢ Click **Uninstall/Change** button located above the list.

➧ A security question appears:

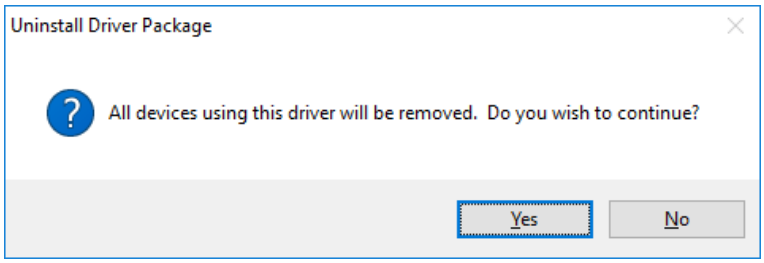

Figure 105: Acknowledge Uninstall

➢ 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**.

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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, Windows 8 and Windows 10.

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 10.
- 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 50.
- 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 108.

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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 and 64-Bit) SP1,
  Windows® 8 (32-Bit and 64-Bit),
  Windows® 8.1 (32-Bit and 64-Bit),
  Windows® 10 (32-Bit and 64-Bit)
- Administrator privilege required for installation
- Microsoft .NET Framework 4.0
- Internet Explorer 5.5 or higher
- Free disk space: min. 400 MByte
- RAM: min. 512 MByte, recommended 1024 MByte
- Graphic resolution: min. 1024 x 768 pixel
- Keyboard and Mouse
- USB, serial or Ethernet interface
- Restriction: Touch screen is not supported.

Note: If the project file is used on another PC,

- the other PC must also comply to these system requirements,
- the device description files of the devices used in the project must be imported to the configuration software SYCON.net on the other PC,
- respectively the DTMs of the devices used in the project must be installed on the other PC.

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4.3 Installing SYCON.net

4.3.1 Installing SYCON.net under Windows XP

1. Start the SYCON.net installation program.

➢ Double-click the `Communication-Solutions.exe` file in the root directory of the un-zipped Communication SolutionsDVD.

↬ The Flash start screen **Communication Solutions** is displayed:

Figure 106: 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 of the Communication Solutions DVD.

↬ The SYCON.net installation program is started.

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2. Choose language for the setup.

Figure 107: SYCON.net Setup Language

➢ Select the language for the setup.

➢ Click **OK**.

↬ The **SYCON.net for netX InstallShield Wizard** opens:

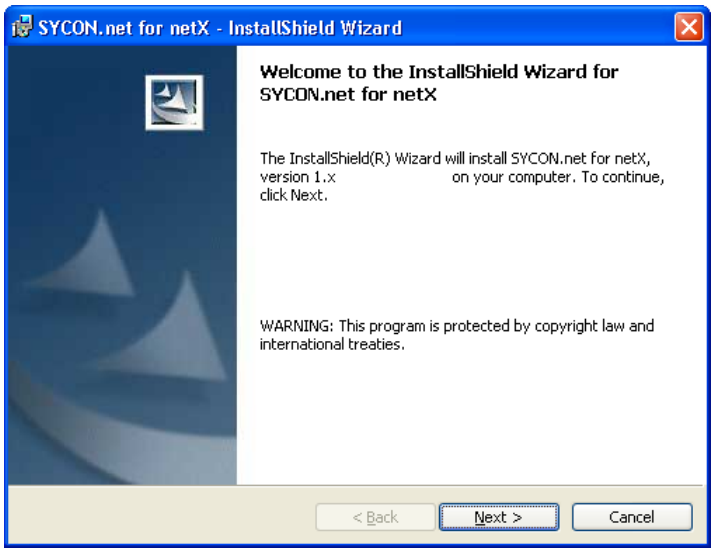

Figure 108: SYCON.net Installation Program

➢ Click **Next**.

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

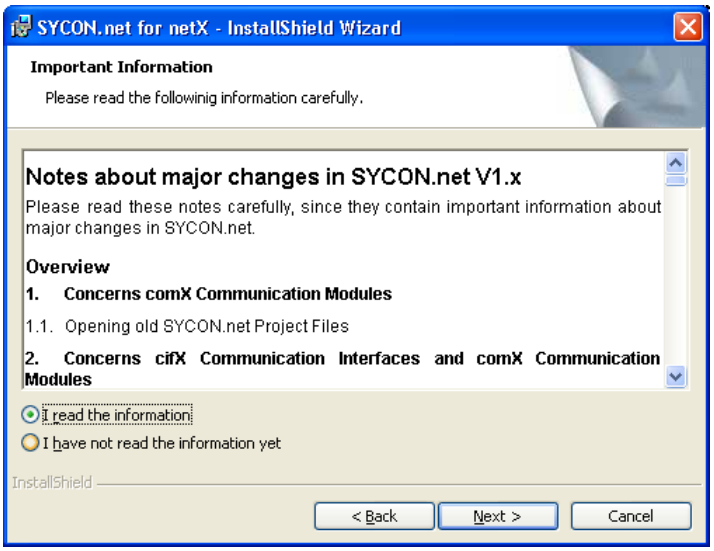

Figure 109: Notes About Major Changes in SYCON.net

- 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.

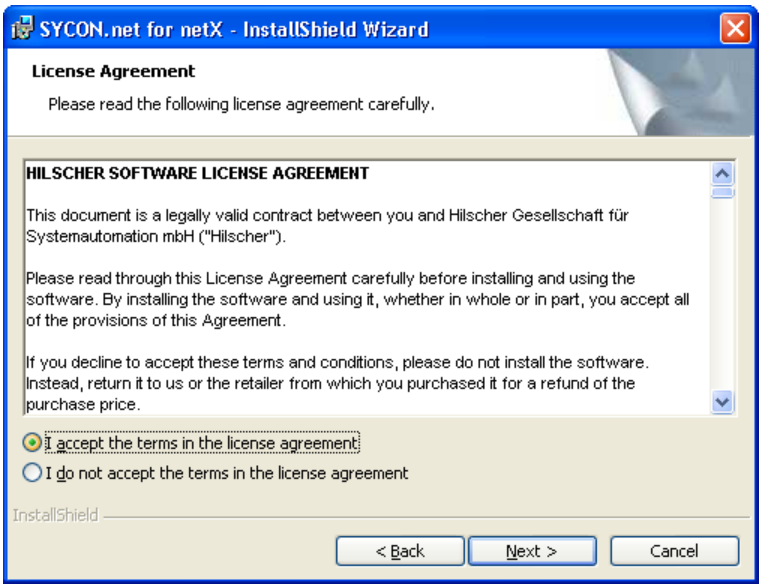

Figure 110: SYCON.net License Agreement

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

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5. Enter user information.

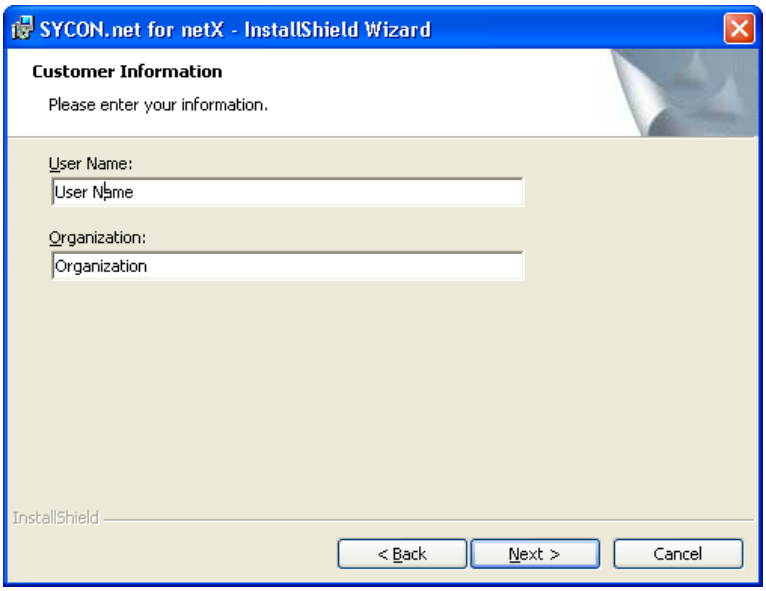

Figure 111: SYCON.net Customer Information

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

6. Select setup type.

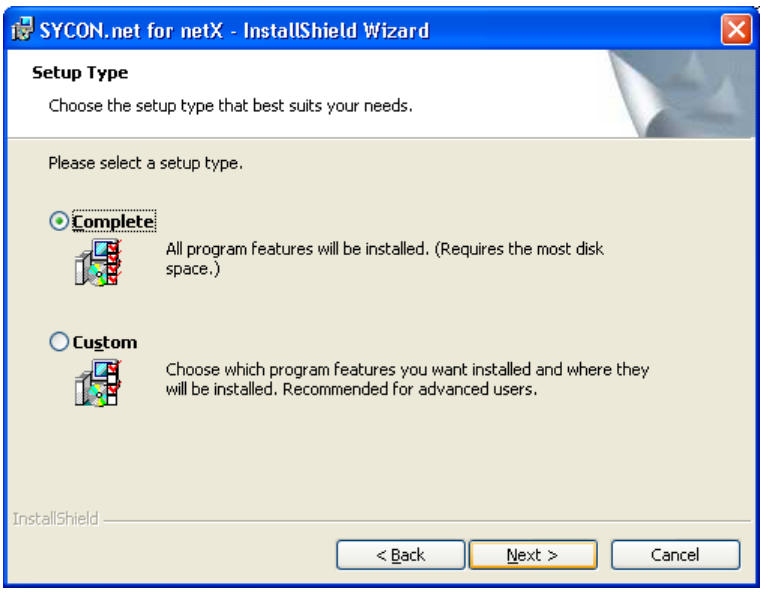

Figure 112: SYCON.net Setup Type

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

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7. Install SYCON.net.

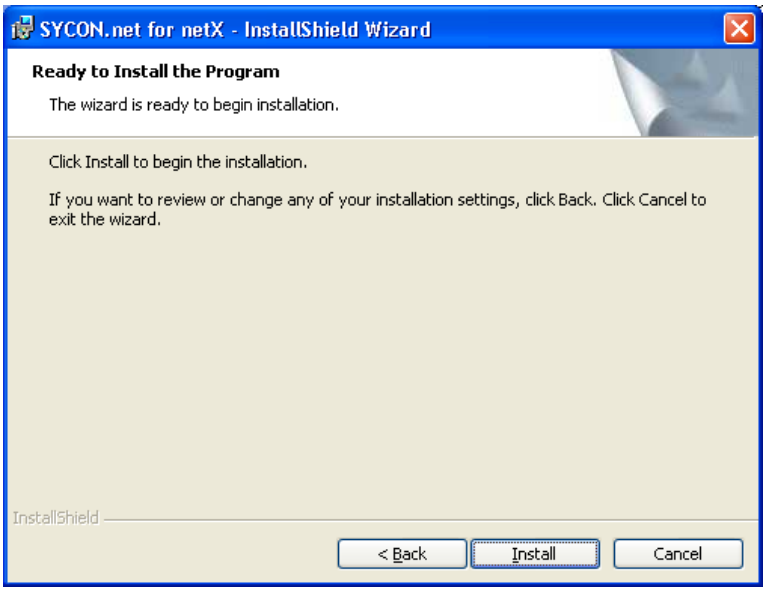

Figure 113: Start SYCON.net Installation

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

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

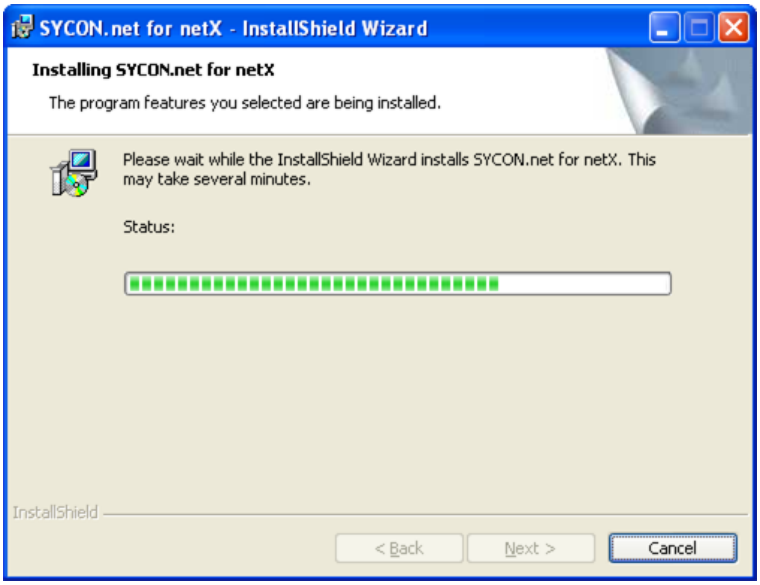

Figure 114: SYCON.net Installation Status

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8. Finish Installation.

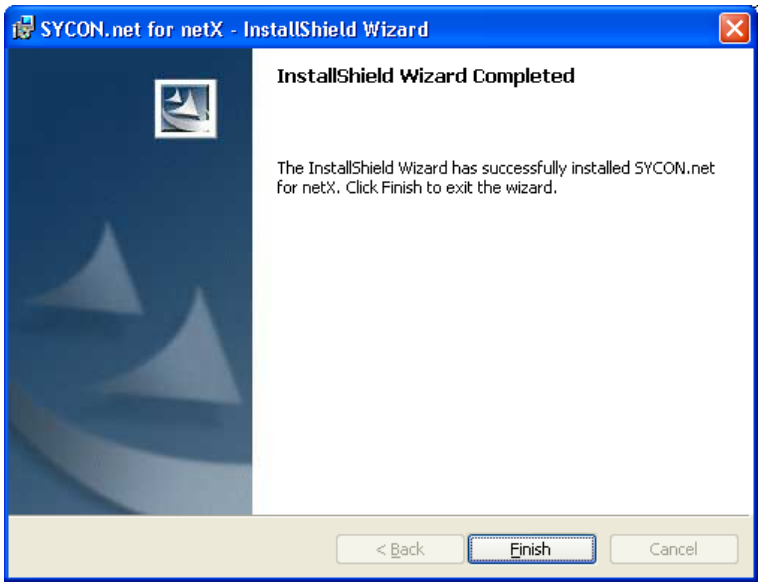

Figure 115: Finish SYCON.net Installation

➢ 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**.

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4.3.2 Installing SYCON.net under Windows 7

1. Start the SYCON.net installation program.

➢ Close all application programs.

➢ Double-click the `Communication-Solutions.exe` file in the root directory of the un-zipped Communication SolutionsDVD.

➢ The Flash start screen **Communication Solutions** is displayed:

Figure 116: 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 of 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.

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2. Choose language for the setup.

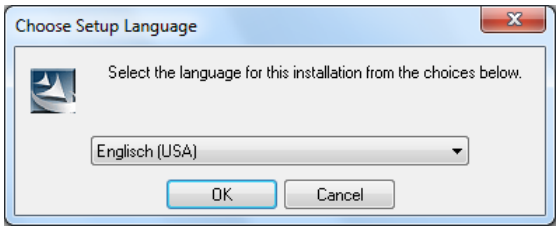

Figure 117: SYCON.net Setup Language

- Select the language for the setup.
- Click **OK**.

→ The **SYCON.net for netX InstallShield Wizard** opens:

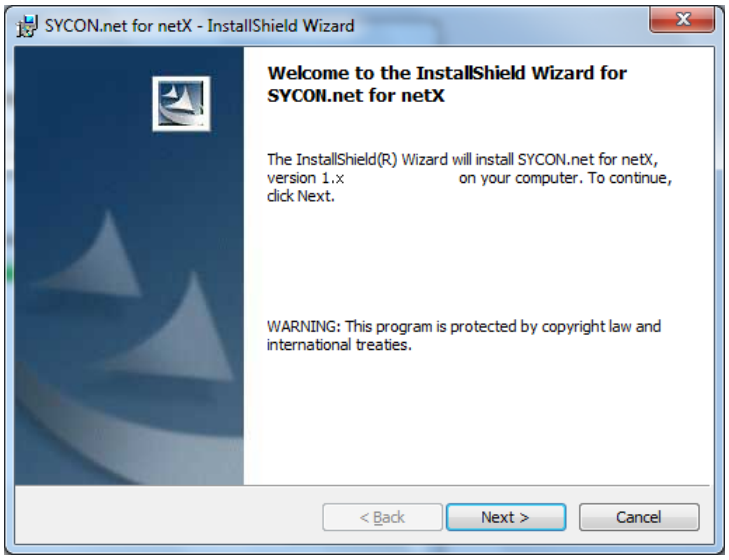

Figure 118: SYCON.net Installation Information

- Click **Next**.

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

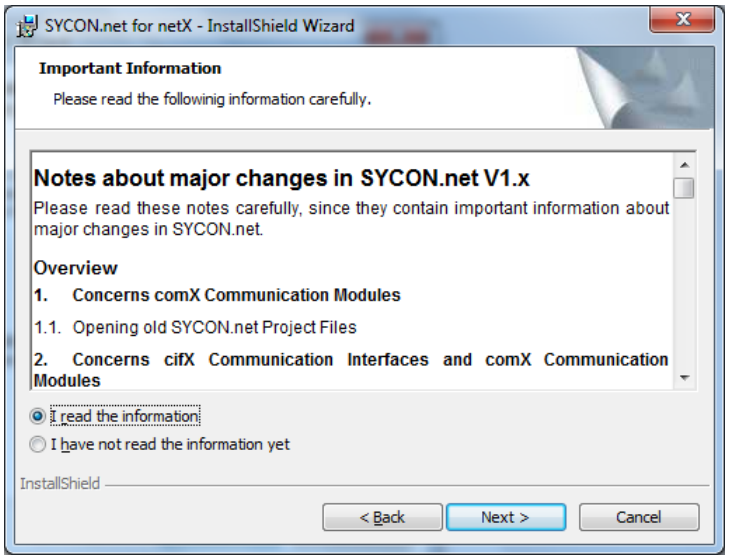

Figure 119: Notes about Major Changes in SYCON.net

- 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.

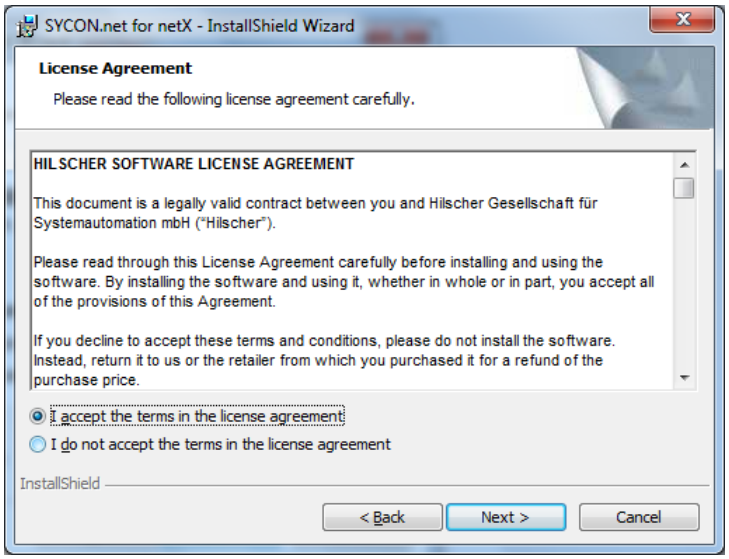

Figure 120: SYCON.net License Agreement

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

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5. Enter user information.

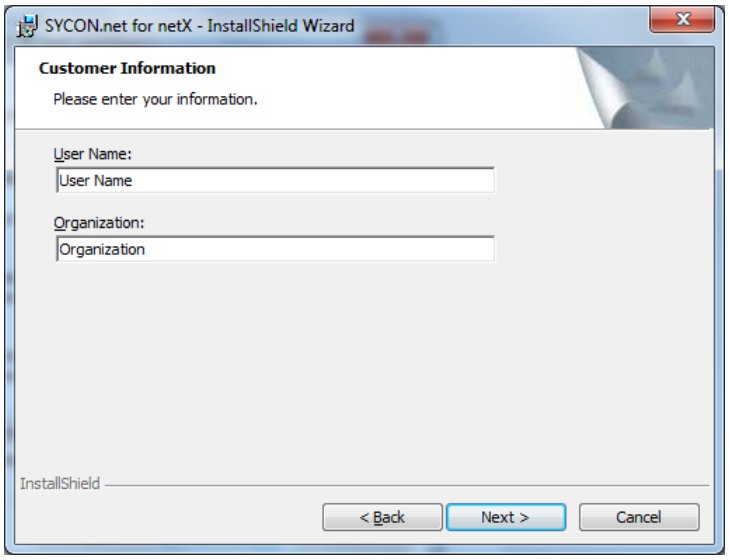

Figure 121: SYCON.net Customer Information

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

6. Select setup type.

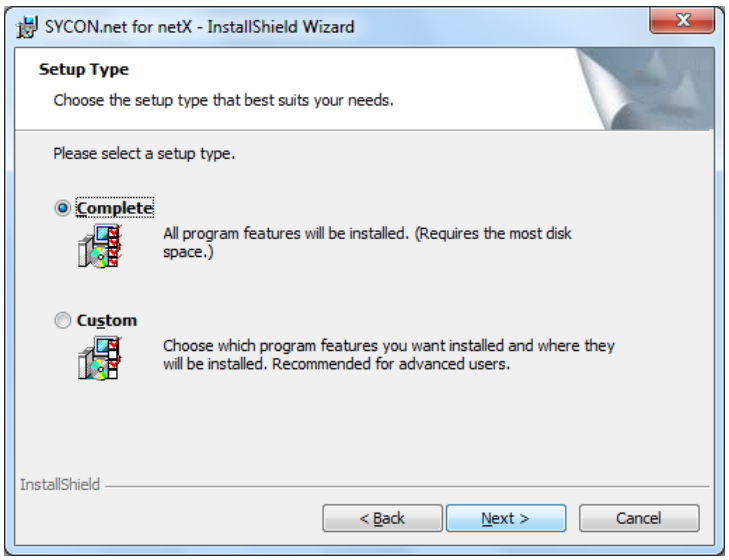

Figure 122: SYCON.net Setup Type

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

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7. Install SYCON.net.

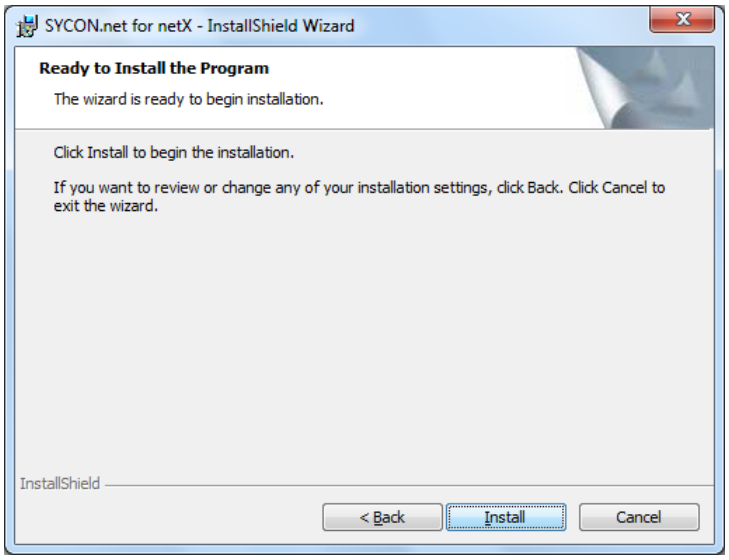

Figure 123: Start SYCON.net Installation

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

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

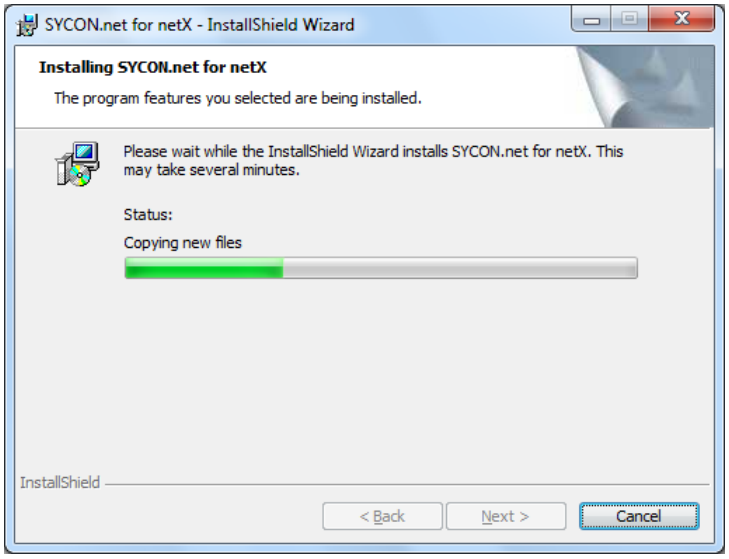

Figure 124: SYCON.net Installation Status

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8. Finish Installation.

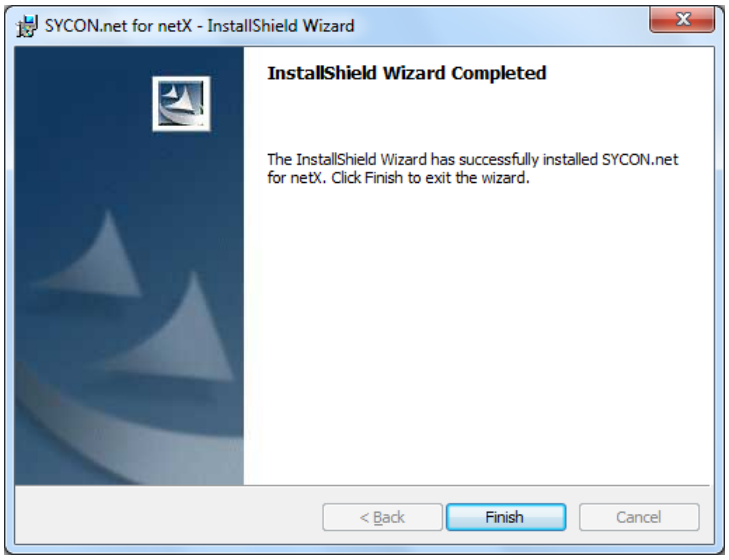

Figure 125: Finish SYCON.net Installation

➢ 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**.

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4.3.3 Installing SYCON.net under Windows 8

1. Start the SYCON.net installation program.

➢ Close all application programs.

➢ Double-click the `Communication-Solutions.exe` file in the root directory of the un-zipped Communication SolutionsDVD.

➢ The Flash start screen **Communication Solutions** is displayed:

Figure 126: 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 of 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.

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2. Choose language for the setup.

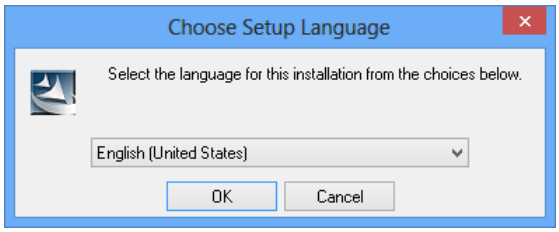

Figure 127: SYCON.net Setup Language

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

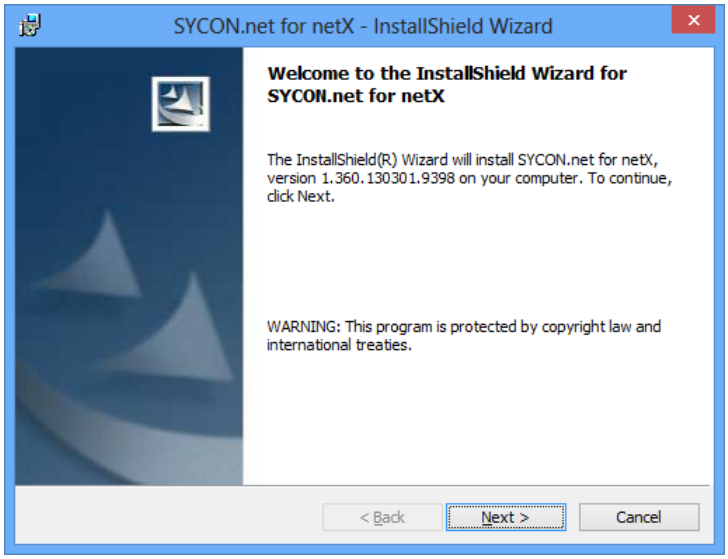

Figure 128: SYCON.net Installation Information

- ➢ Click **Next**.

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

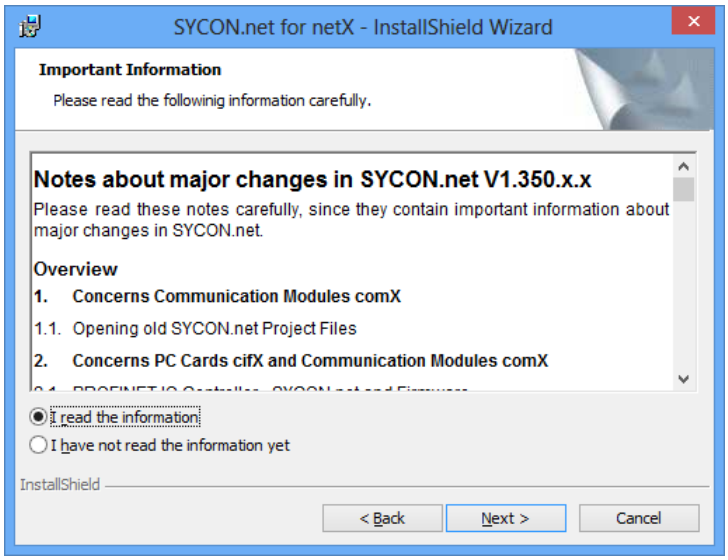

Figure 129: Notes about Major Changes in SYCON.net

- 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.

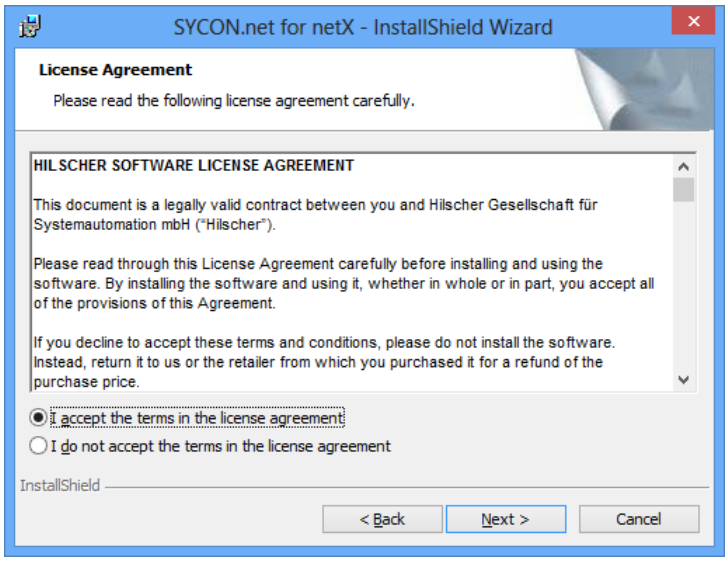

Figure 130: SYCON.net License Agreement

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

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5. Enter user information.

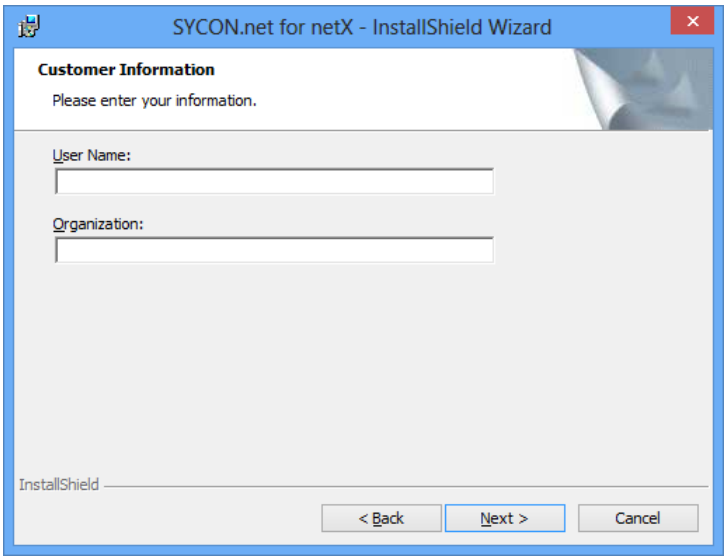

Figure 131: SYCON.net Customer Information

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

6. Select setup type.

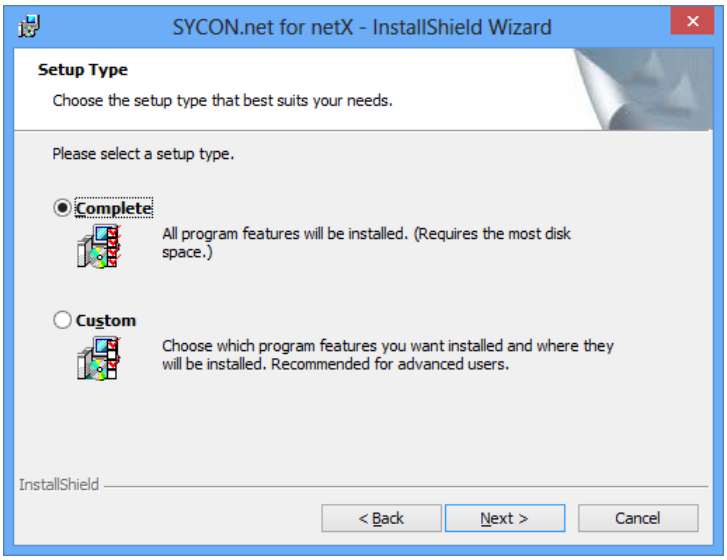

Figure 132: SYCON.net Setup Type

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

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7. Install SYCON.net.

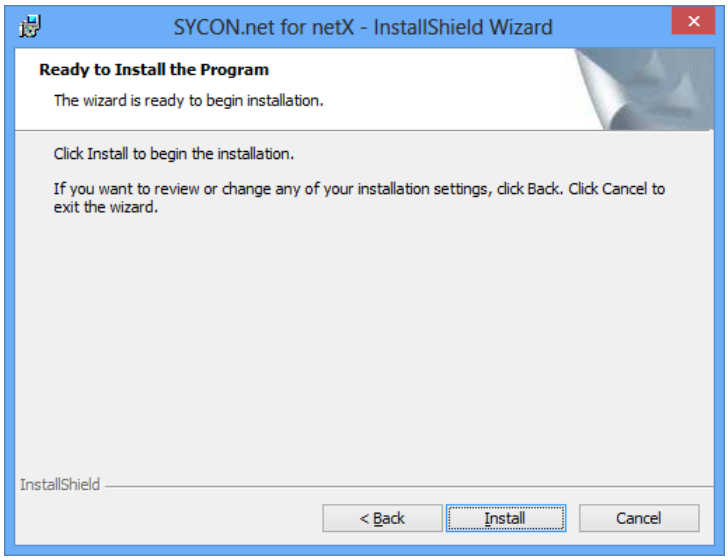

Figure 133: Start SYCON.net Installation

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

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

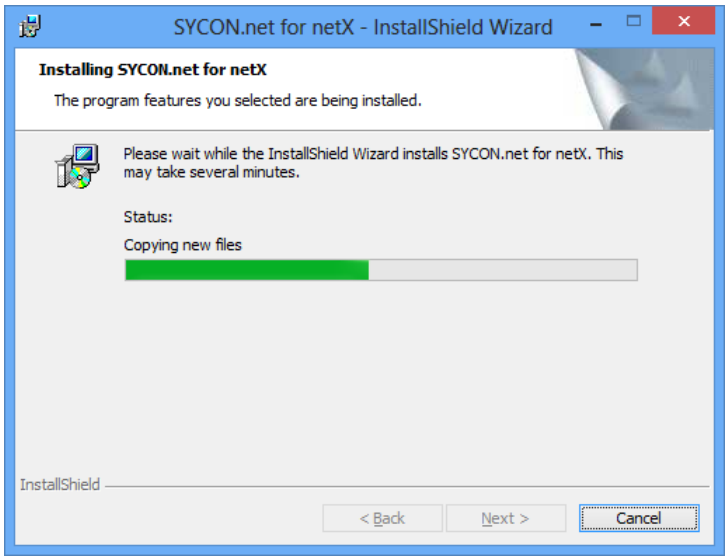

Figure 134: SYCON.net Installation Status

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8. Finish Installation.

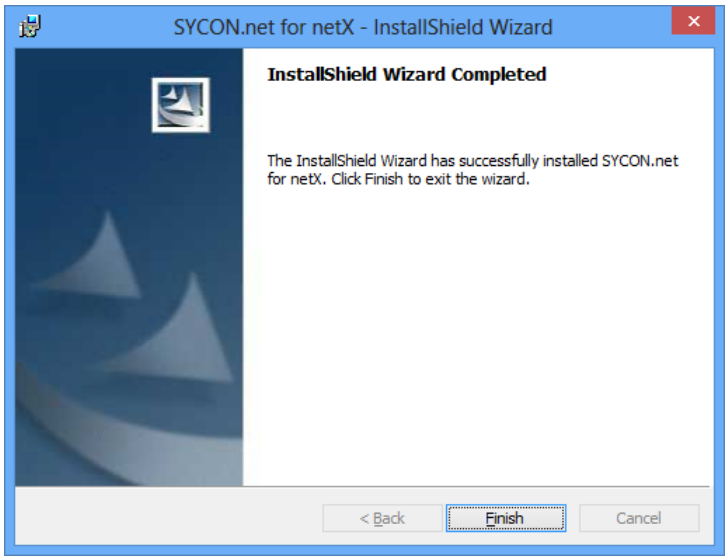

Figure 135: Finish SYCON.net Installation

- 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.

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4.3.4 Installing SYCON.net under Windows 10

1. Start the SYCON.net installation program.

➢ Close all application programs.

➢ Double-click the `Communication-Solutions.exe` file in the root directory of the un-zipped Communication SolutionsDVD.

➢ The Flash start screen **Communication Solutions** is displayed:

Figure 136: 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 of the Communication Solutions DVD.

➢ The SYCON.net installation program is started.

2. Choose language for the setup.

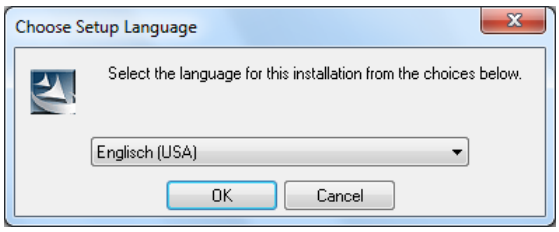

Figure 137: SYCON.net Setup Language

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- Select the language for the setup.
- Click **OK**.

The **SYCON.net for netX InstallShield Wizard** opens:

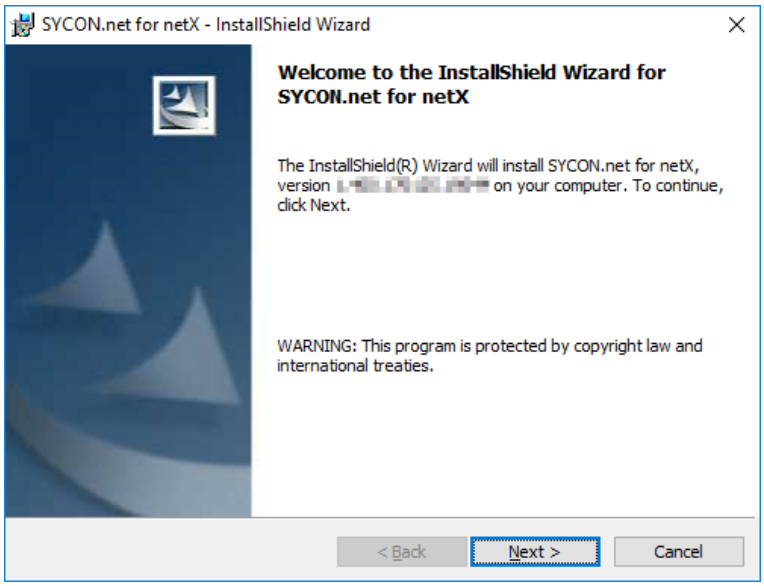

Figure 138: SYCON.net Installation Information

- Click **Next**.

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

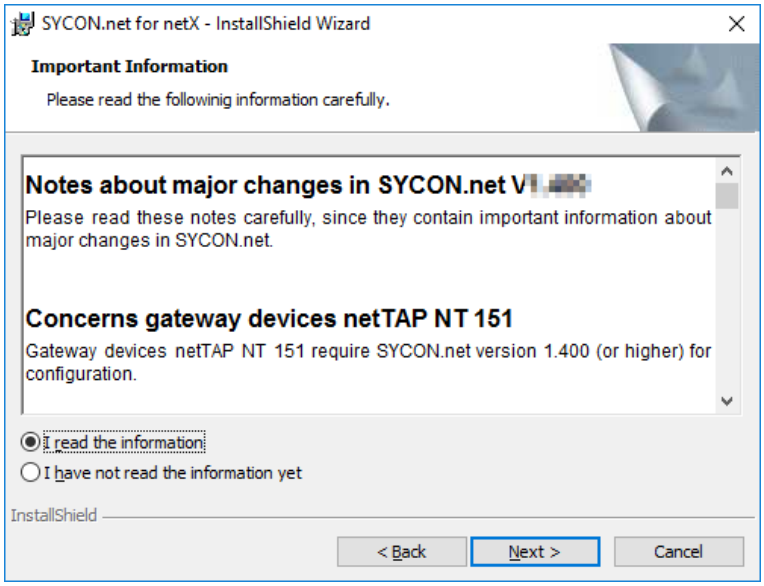

Figure 139: Notes about Major Changes in SYCON.net

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

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4. Accept license agreement.

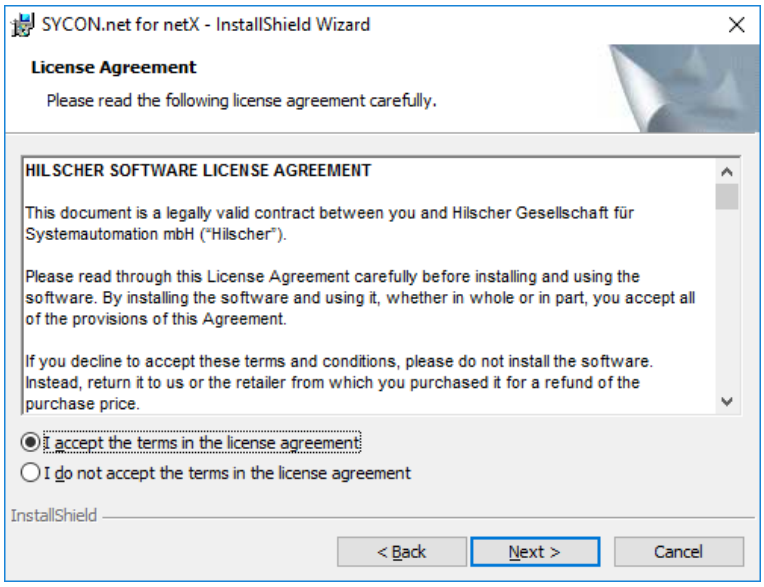

Figure 140: SYCON.net License Agreement

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

5. Enter user information.

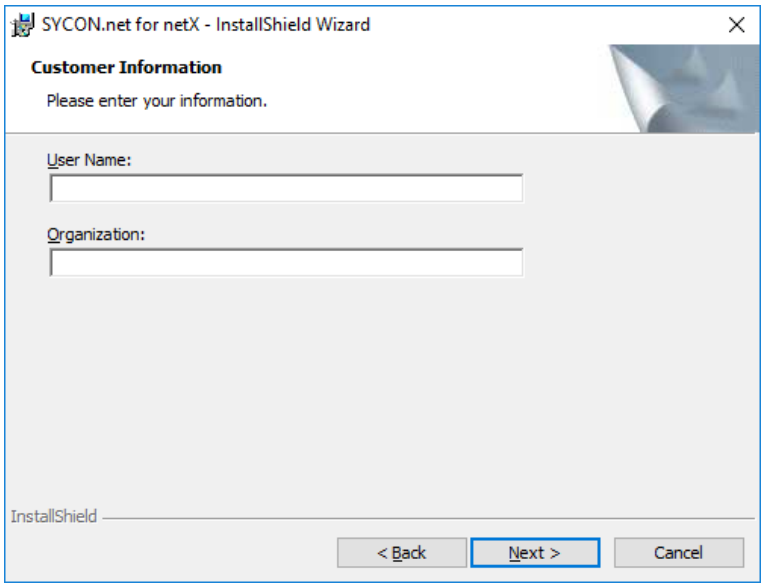

Figure 141: SYCON.net Customer Information

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

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6. Install SYCON.net.

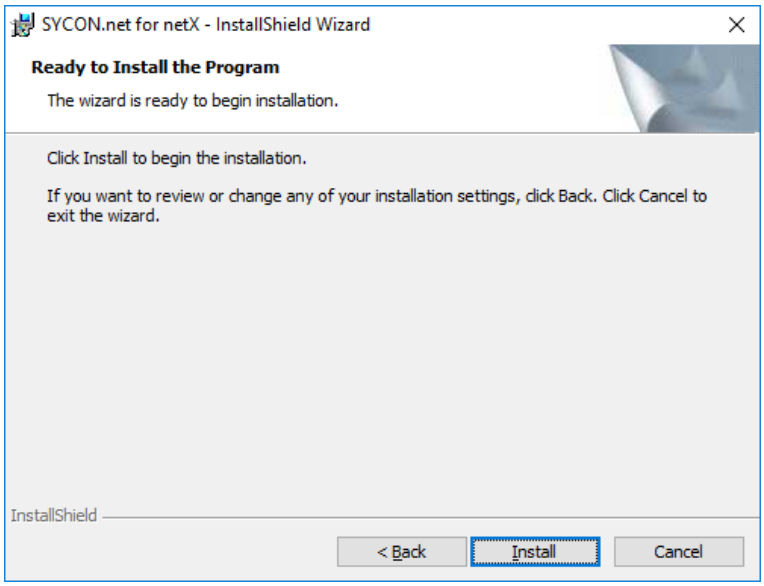

Figure 142: Start SYCON.net Installation

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

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

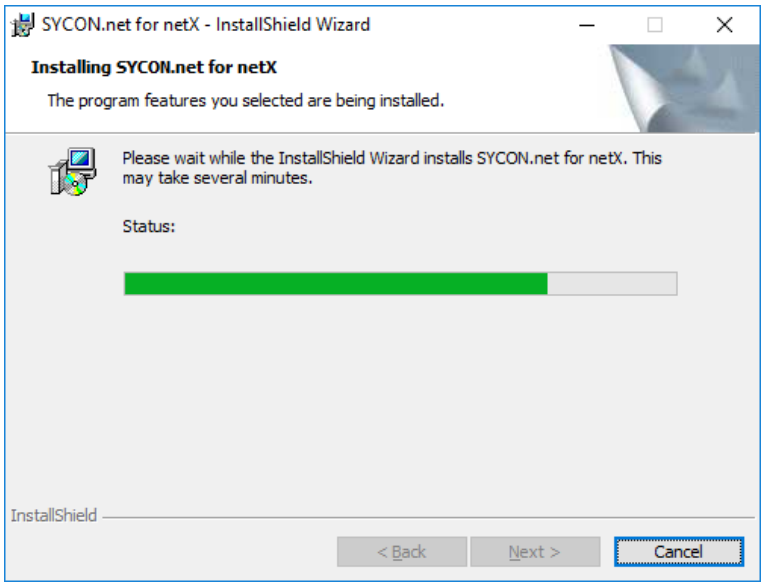

Figure 143: SYCON.net Installation Status

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7. Finish Installation.

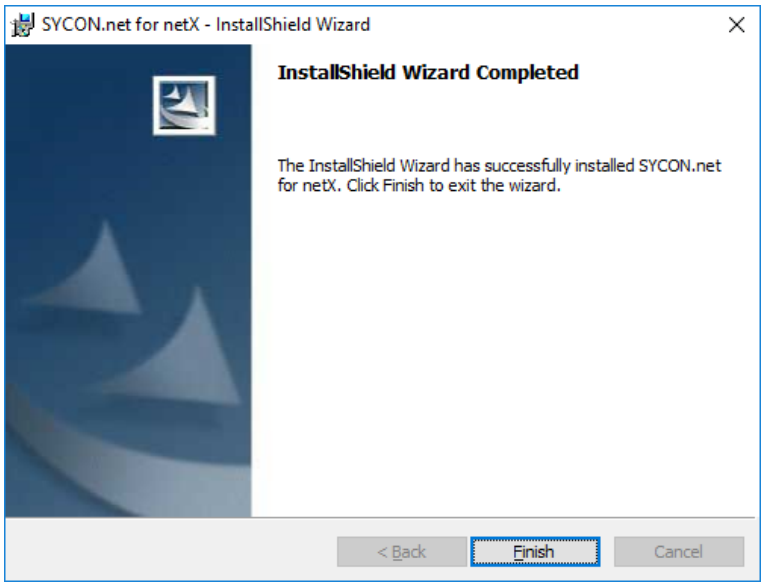

Figure 144: Finish SYCON.net Installation

➢ Click **Finish** to complete the installation.

➢ SYCON.net has been installed and can be started in the **Start** menu of Windows by choosing **All Apps** > **SYCON.net**.

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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:

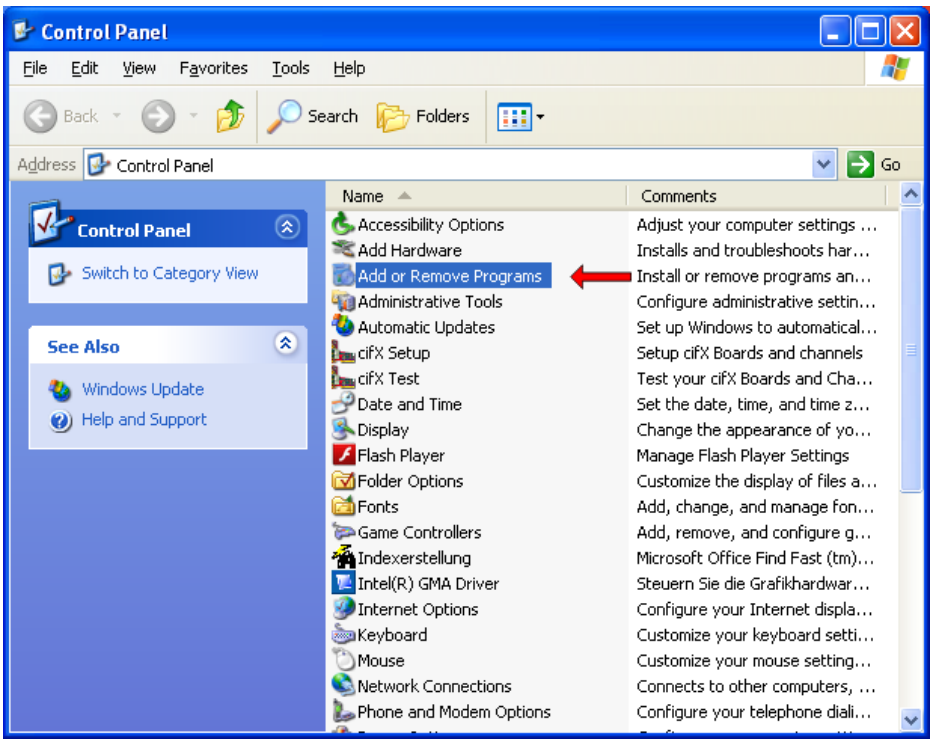

Figure 145: Control Panel

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

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

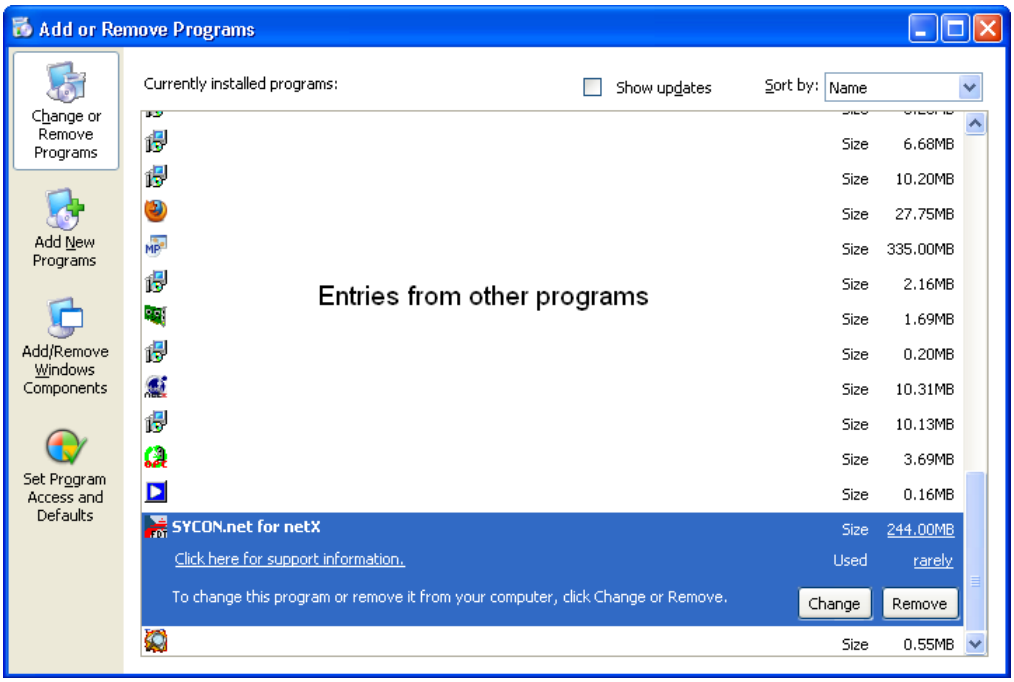

Figure 146: Add or Remove Programs

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

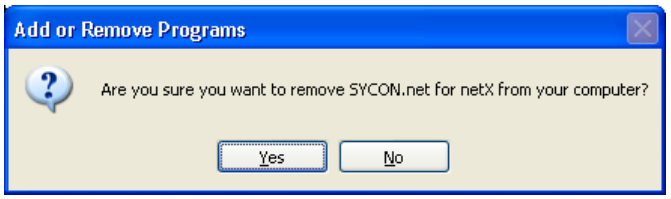

Figure 147: Confirmation Dialog

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

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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:

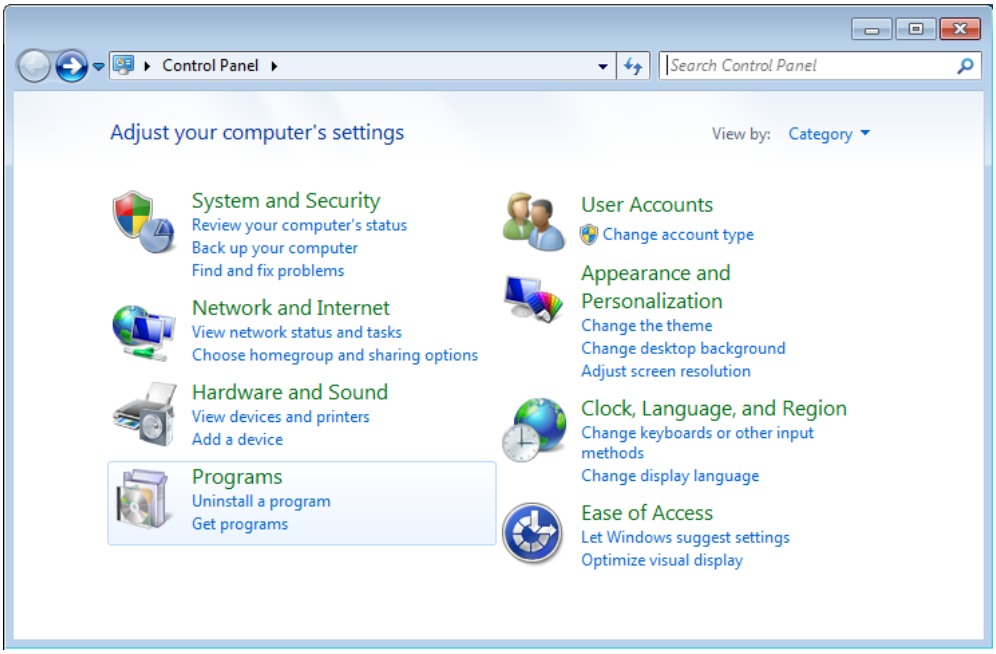

Figure 148: Adjust Your Computer's Settings Window

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

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

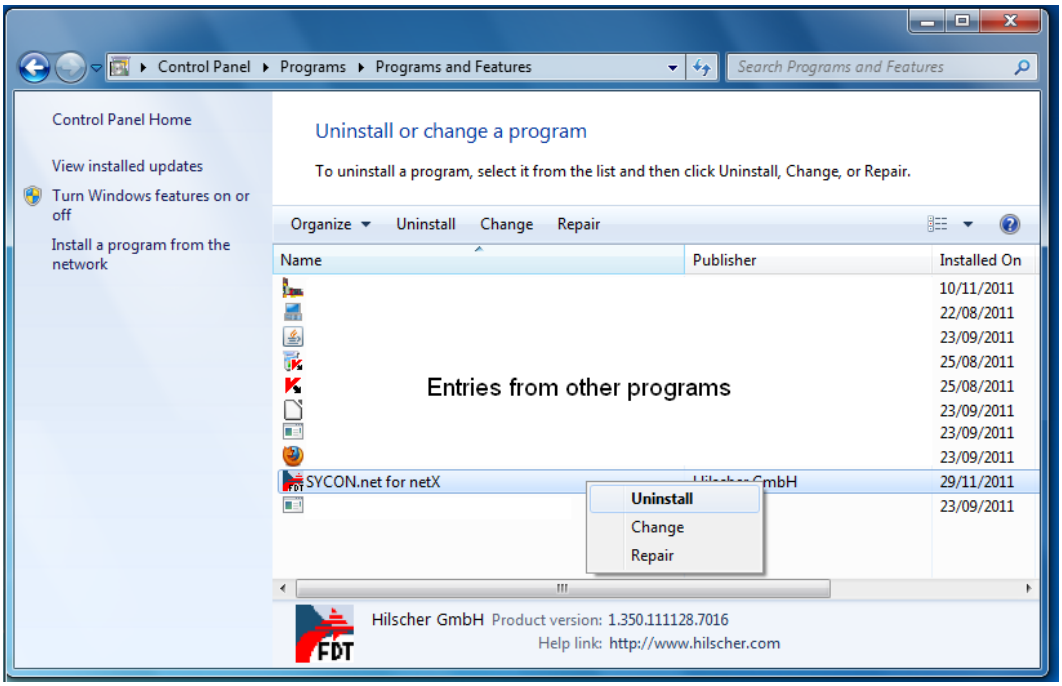

Figure 149: Uninstall or Change a Program Window

➢ Right-click on the **SYCON.net for netX** entry and choose **Uninstall** from the context menu.

➧ A confirmation request appears:

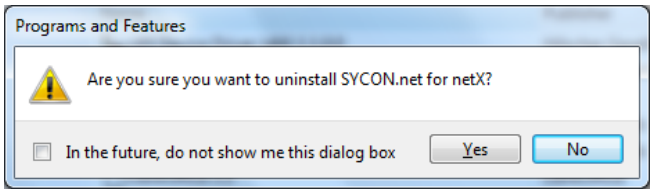

Figure 150: Confirmation Dialog

➢ Click **Yes**.

➧ SYCON.net is being uninstalled from your host system or PC.

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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:

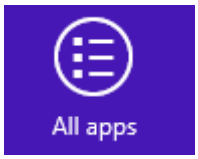

Figure 151: All Apps Button

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

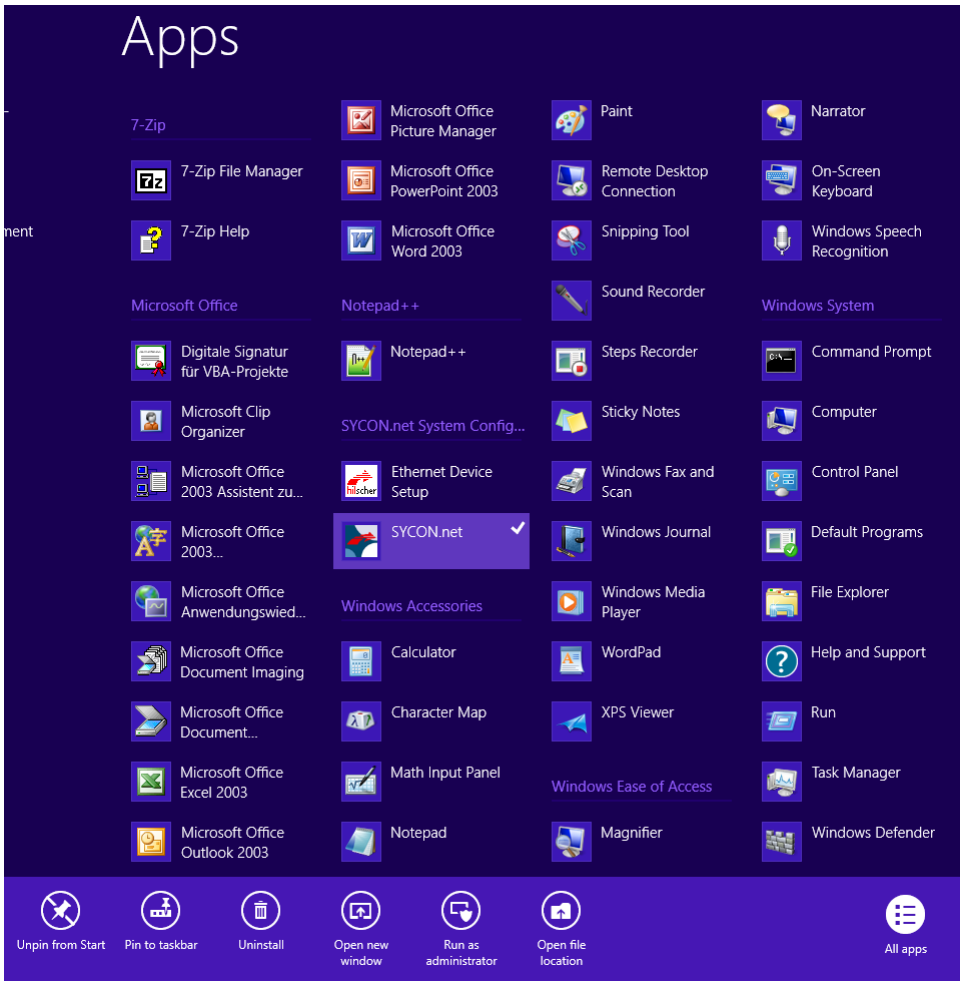

Figure 152: List of Installed Apps in Windows 8

➢ 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**.

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

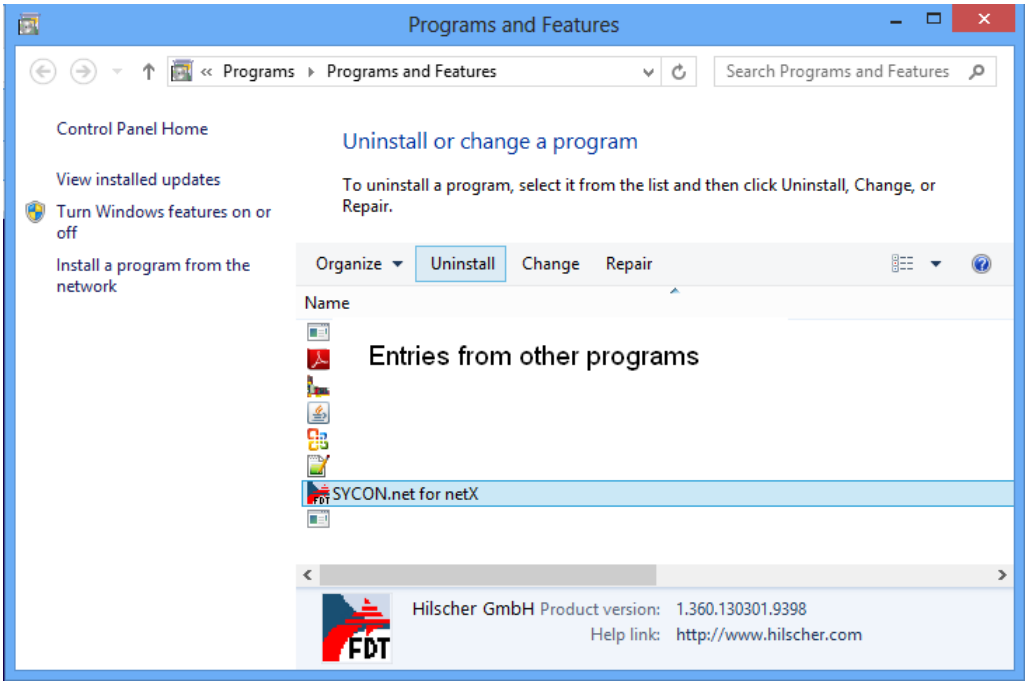

Figure 153: Uninstall or Change a Program Window

- Select **SYCON.net for netX** entry.
- Above the list, click **Uninstall**.

A security question appears:

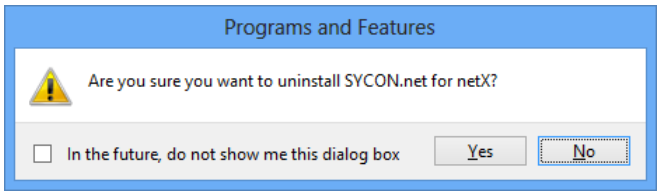

Figure 154: Acknowledge Uninstall

- Click **Yes**.

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

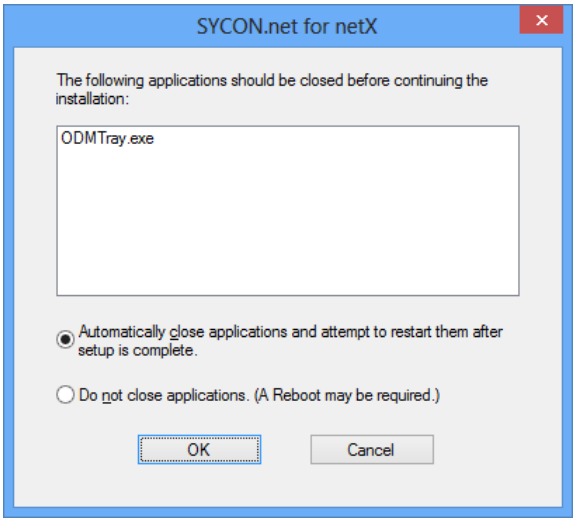

Figure 155: Close ODMTray Dialog

- 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.

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4.4.4 Uninstalling SYCON.net under Windows 10

1. Open the **Programs and Features** dialog window.

➢ Right-click on the Windows **Start** symbol, then choose **Programs and Features** entry:

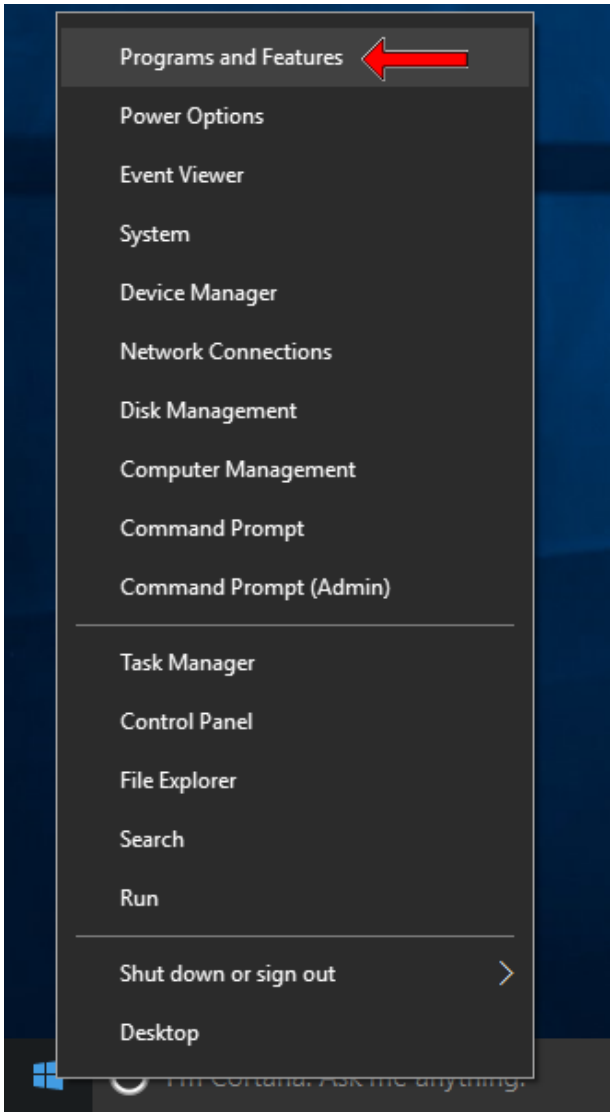

Figure 156: Open program manager in Windows 10

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

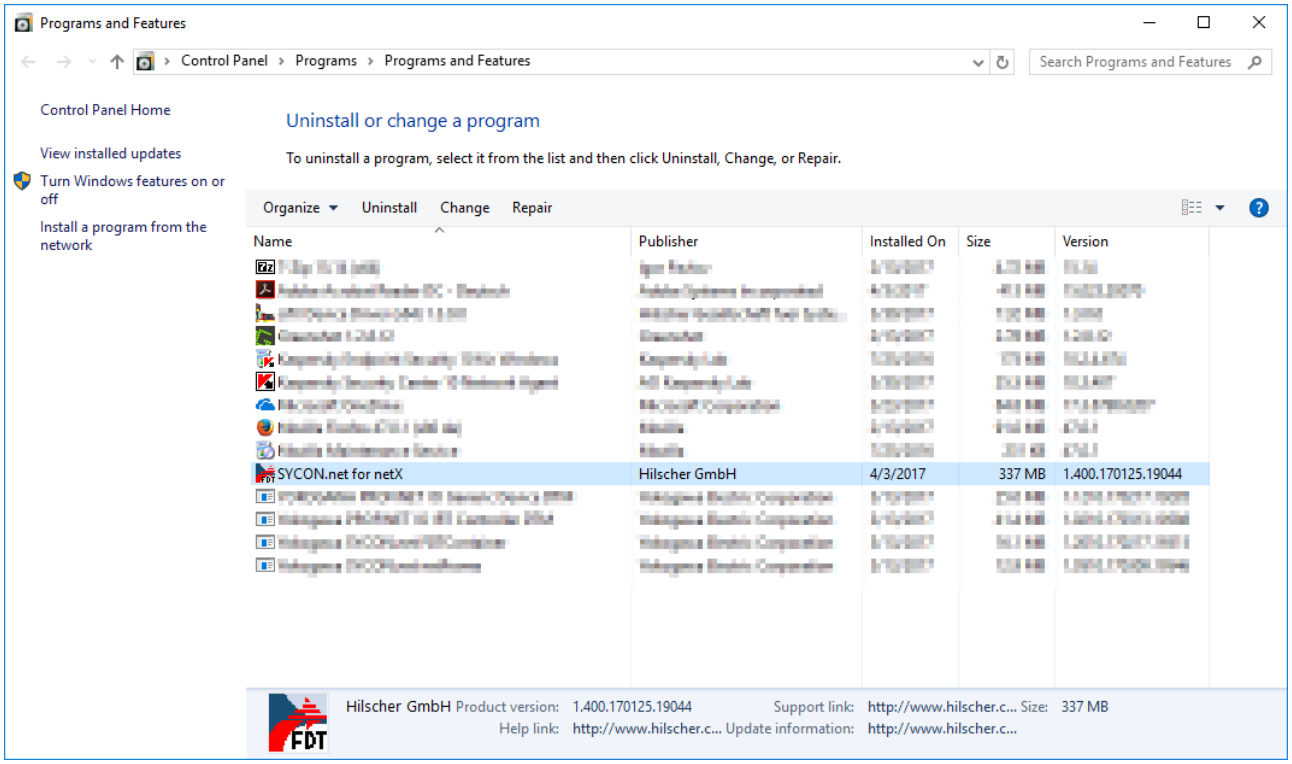

Figure 157: Uninstall or change a program window

➢ Select **SYCON.net for netX** entry.
➢ Click **Uninstall** button located above the list.
➧ A confirmation request appears:

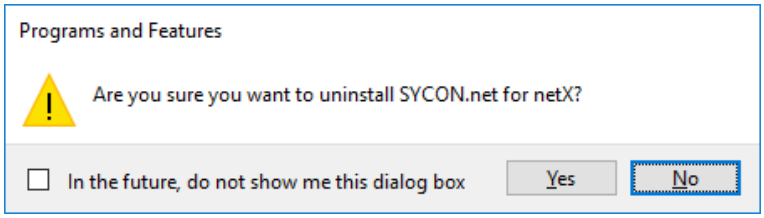

Figure 158: Confirmation Dialog

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

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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 `Tools\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, Windows 8 and Windows 10.

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 10.
- 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 50.
- 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*, DOC110205OIxxEN, 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.

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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.

➢ Double-click the `Communication-Solutions.exe` file in the root directory of the un-zipped Communication SolutionsDVD.

➪ The Flash start screen **Communication Solutions** is displayed:

Figure 159: 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 `Tools\Slave Configuration Tool` directory of the Communication Solutions DVD.

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

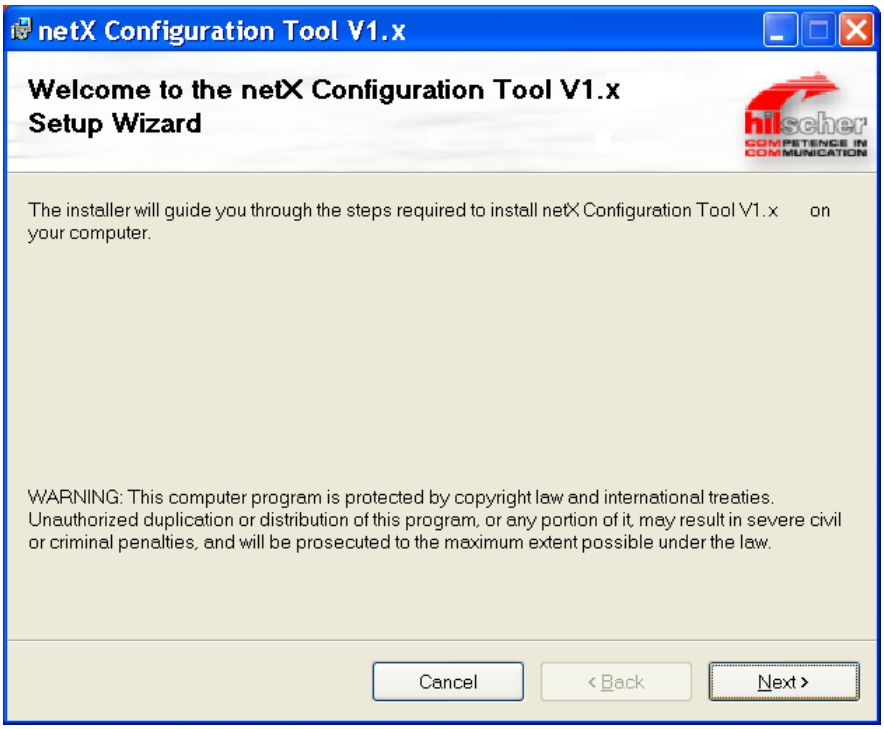

Figure 160: netX Configuration Tool Setup Wizard

➢ Click **Next**.

2. Choose Installation options.

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

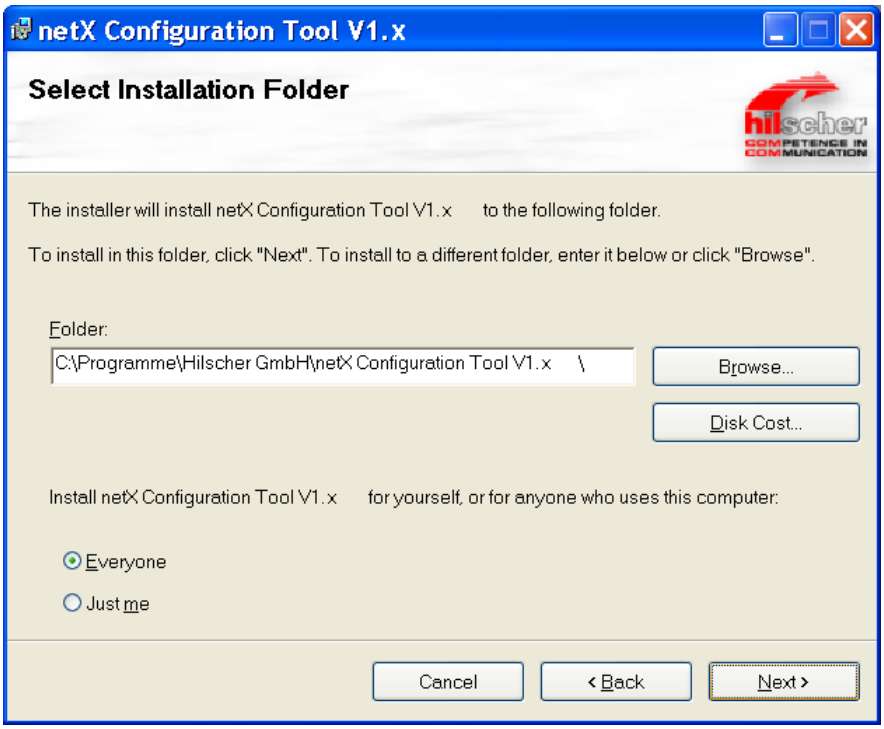

Figure 161: netX Configuration Tool Setup Wizard – Installation Options

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- 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:

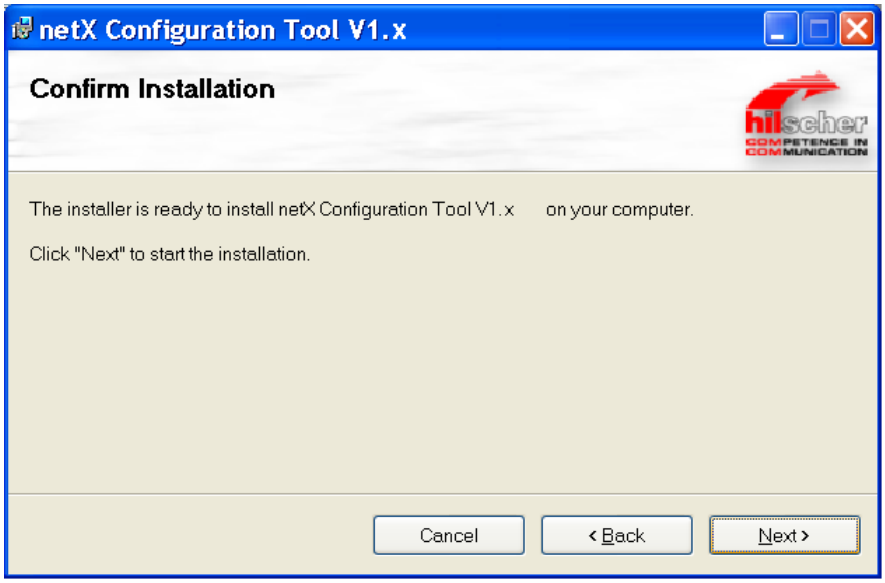

Figure 162: netX Configuration Tool Setup Wizard – Confirm Installation

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

netX Configuration Tool is being installed.

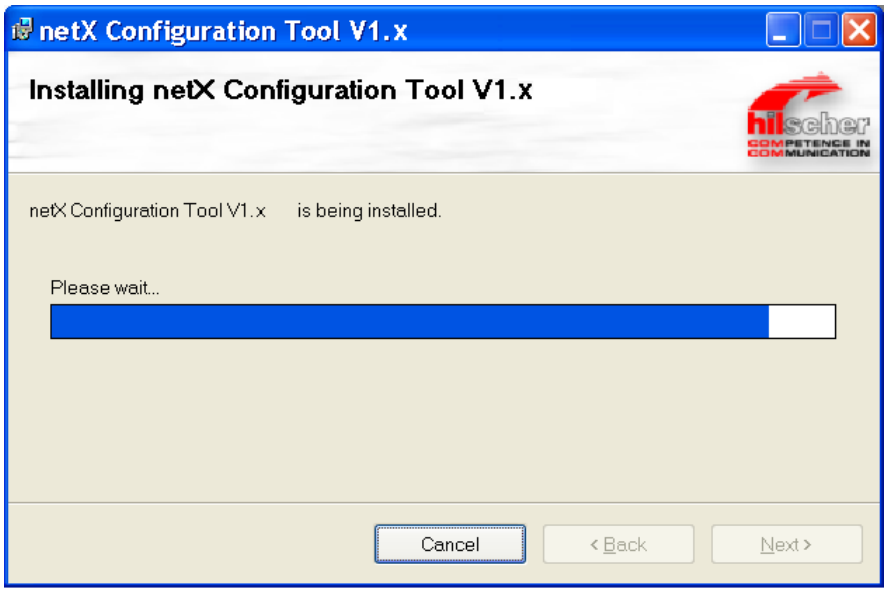

Figure 163: netX Configuration Tool Setup Wizard – Installation in Progress

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4. Finish installation.

➧ The **Installation Complete** window appears:

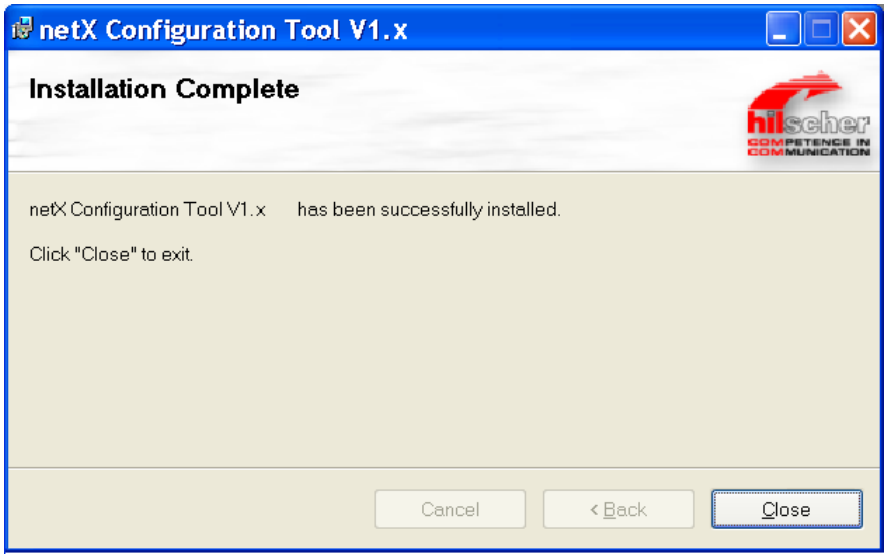

Figure 164: netX Configuration Tool Setup Wizard – Installation Complete

➢ 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**.

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5.2.2 Installing netX Configuration Tool under Windows 7

1. Start the netX Configuration Tool installation program.

➢ Close all application programs.

➢ Double-click the `Communication-Solutions.exe` file in the root directory of the un-zipped Communication SolutionsDVD.

➢ The Flash start screen **Communication Solutions** is displayed:

Figure 165: 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 `Tools\Slave Configuration Tool` directory of 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.

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

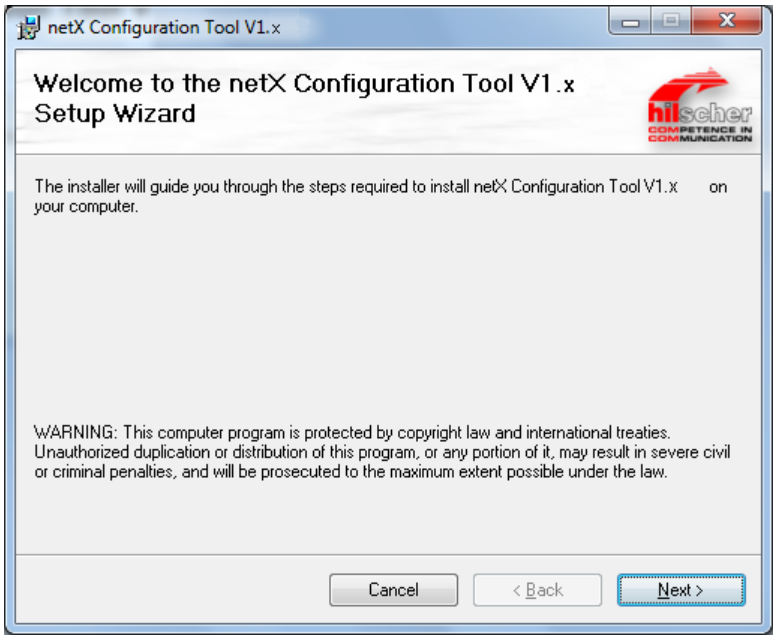

Figure 166: netX Configuration Tool Setup Wizard

➢ Click **Next**.

2. Choose Installation options.

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

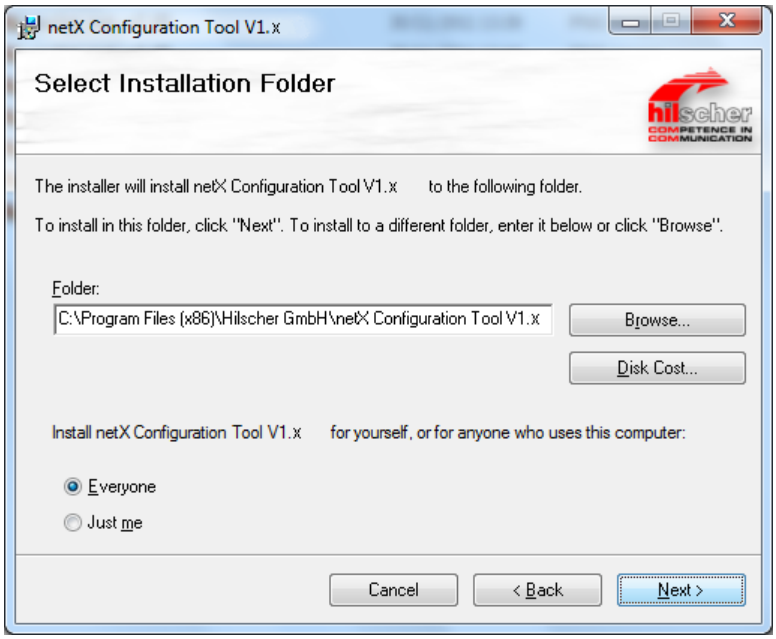

Figure 167: netX Configuration Tool Setup Wizard – Installation Options

➢ 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.

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- 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:

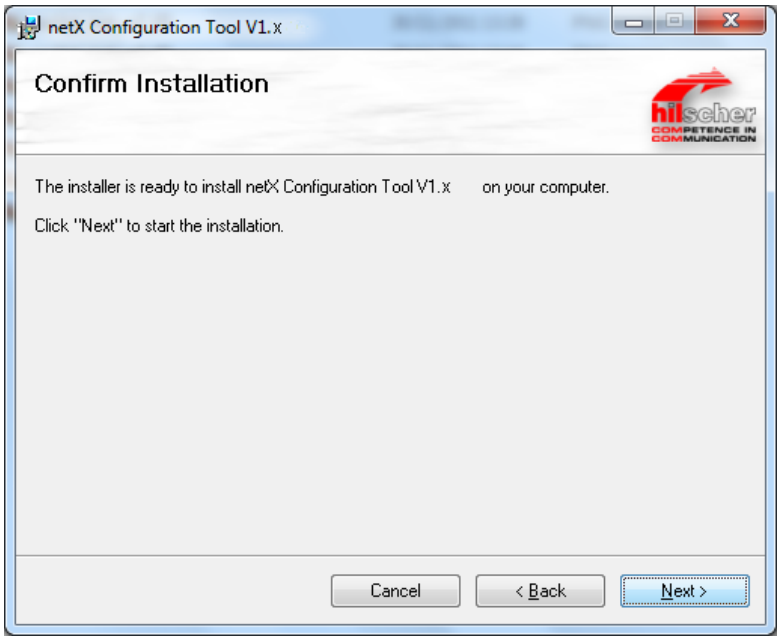

Figure 168: netX Configuration Tool Setup Wizard – Confirm Installation

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

netX Configuration Tool is being installed.

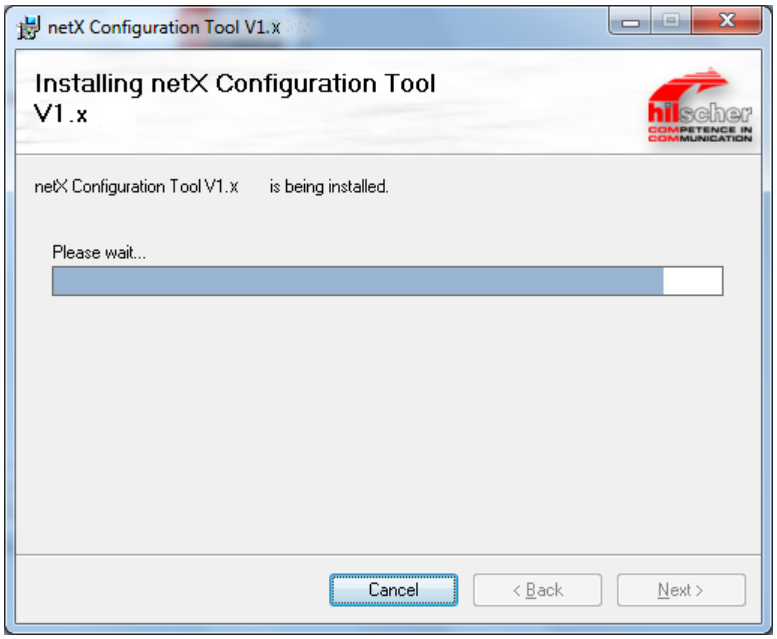

Figure 169: netX Configuration Tool Setup Wizard – Installation in Progress

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4. Finish installation.

➮ The **Installation Complete** window appears:

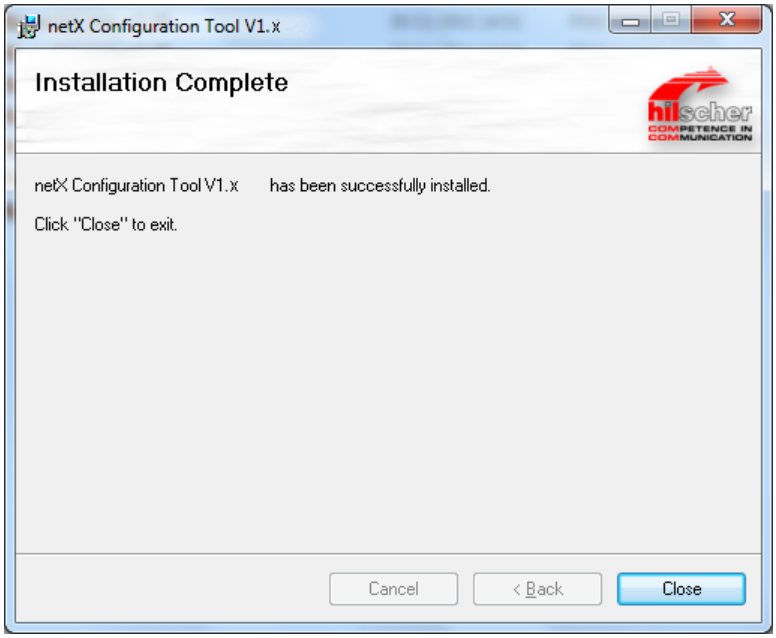

Figure 170: netX Configuration Tool Setup Wizard – Installation Complete

➢ 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**.

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5.2.3 Installing netX Configuration Tool under Windows 8

1. Start the netX Configuration Tool installation program.

➢ Close all application programs.

➢ Double-click the `Communication-Solutions.exe` file in the root directory of the un-zipped Communication SolutionsDVD.

➢ The Flash start screen **Communication Solutions** is displayed:

Figure 171: 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 `Tools\Slave Configuration Tool` directory of 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.

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

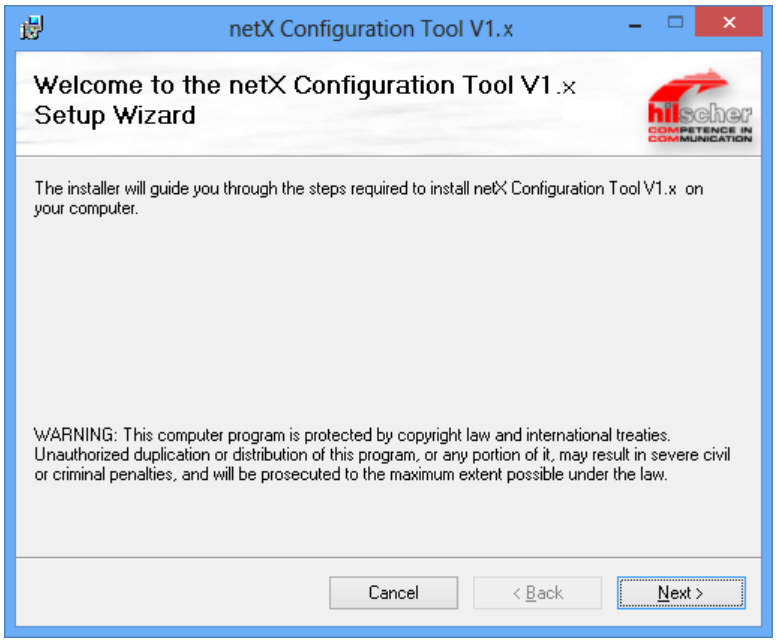

Figure 172: netX Configuration Tool Setup Wizard

➢ Click **Next**.

2. Choose Installation options.

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

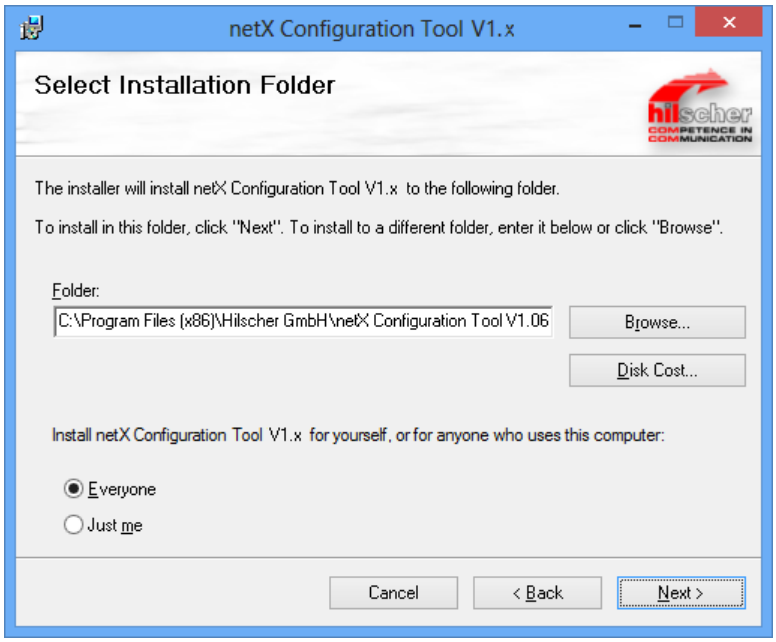

Figure 173: netX Configuration Tool Setup Wizard – Installation Options

➢ 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.

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- 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:

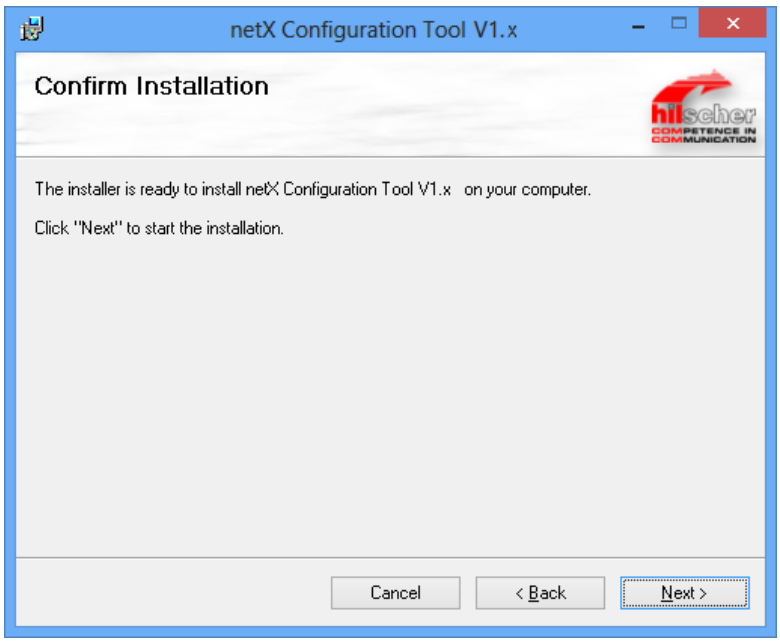

Figure 174: netX Configuration Tool Setup Wizard – Confirm Installation

- Click **Next**, to start the installation.

netX Configuration Tool is being installed.

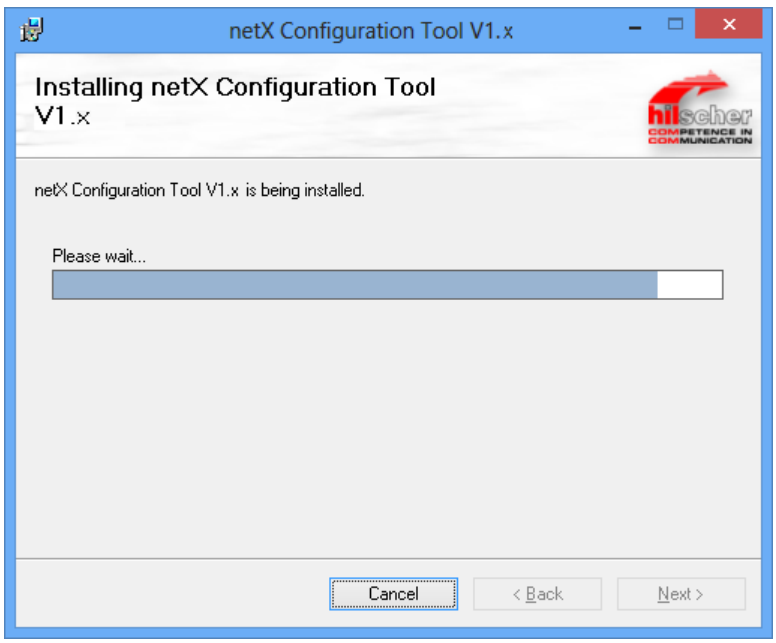

Figure 175: netX Configuration Tool Setup Wizard – Installation in Progress

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4. Finish installation.

➧ The **Installation Complete** window appears:

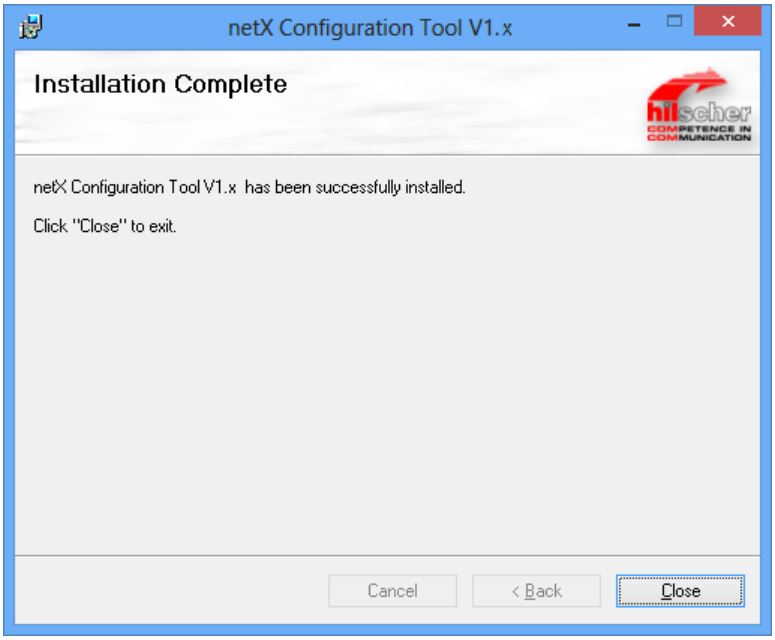

Figure 176: netX Configuration Tool Setup Wizard – Installation Complete

➢ 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.

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5.2.4 Installing netX Configuration Tool under Windows 10

1. Start the netX Configuration Tool installation program.

➢ Close all application programs.

➢ Double-click the `Communication-Solutions.exe` file in the root directory of the un-zipped Communication SolutionsDVD.

➢ The Flash start screen **Communication Solutions** is displayed:

Figure 177: 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 `Tools\Slave Configuration Tool` directory of the Communication Solutions DVD.

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

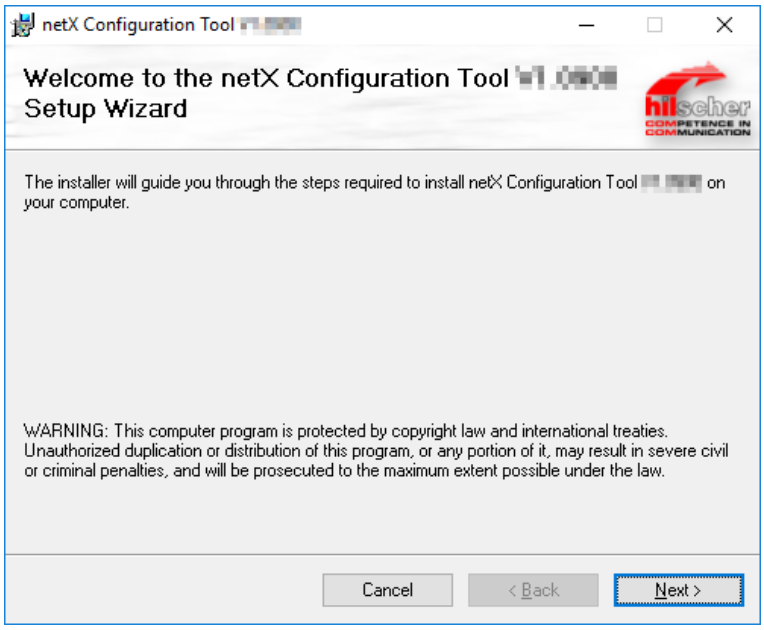

Figure 178: netX Configuration Tool Setup Wizard

➢ Click **Next**.

2. Choose Installation options.

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

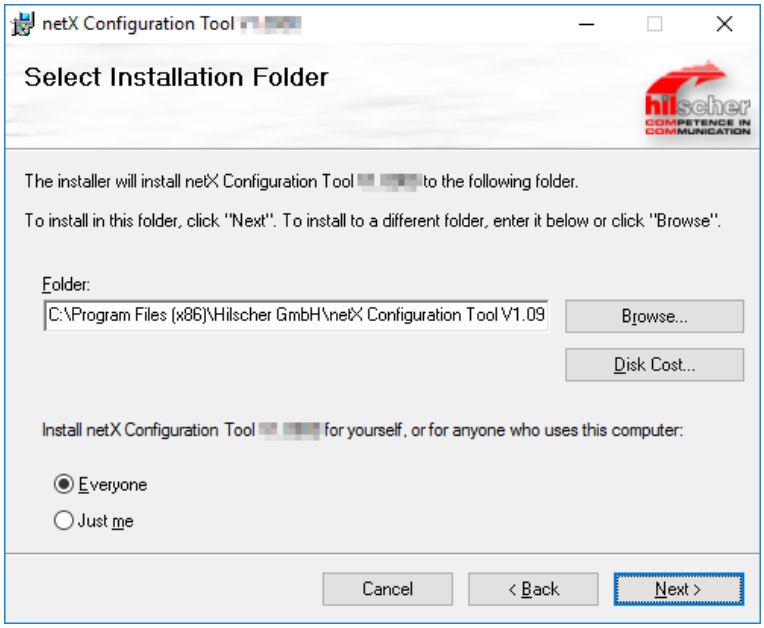

Figure 179: netX Configuration Tool Setup Wizard – Installation Options

➢ 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.

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- 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:

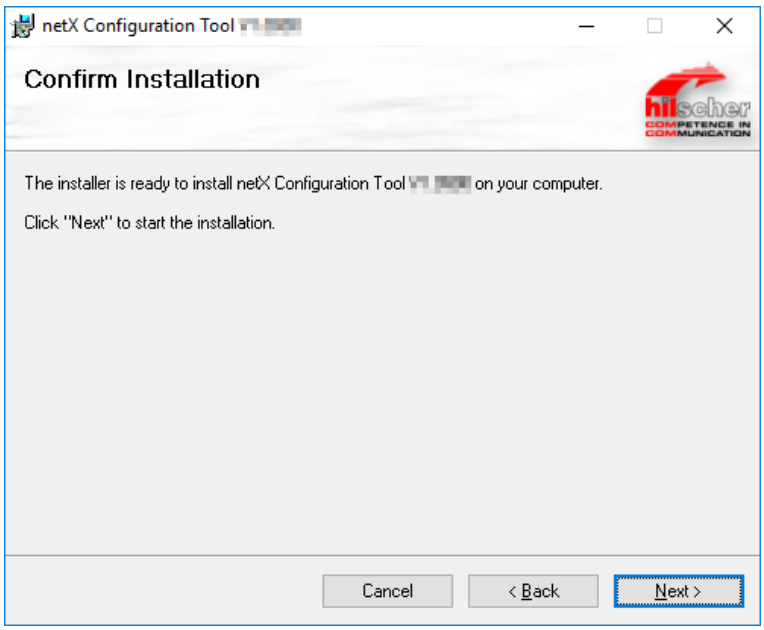

Figure 180: netX Configuration Tool Setup Wizard – Confirm Installation

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

netX Configuration Tool is being installed.

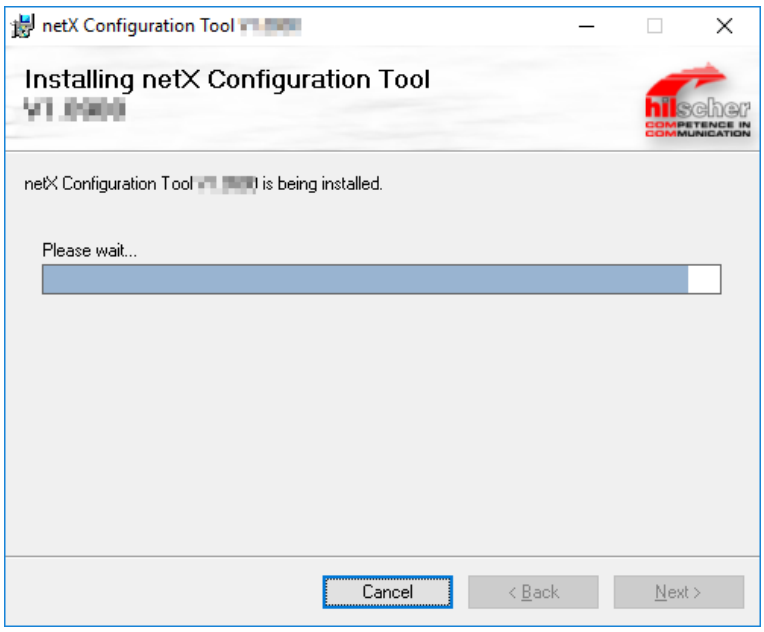

Figure 181: netX Configuration Tool Setup Wizard – Installation in Progress

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4. Finish installation.

➧ The **Installation Complete** window appears:

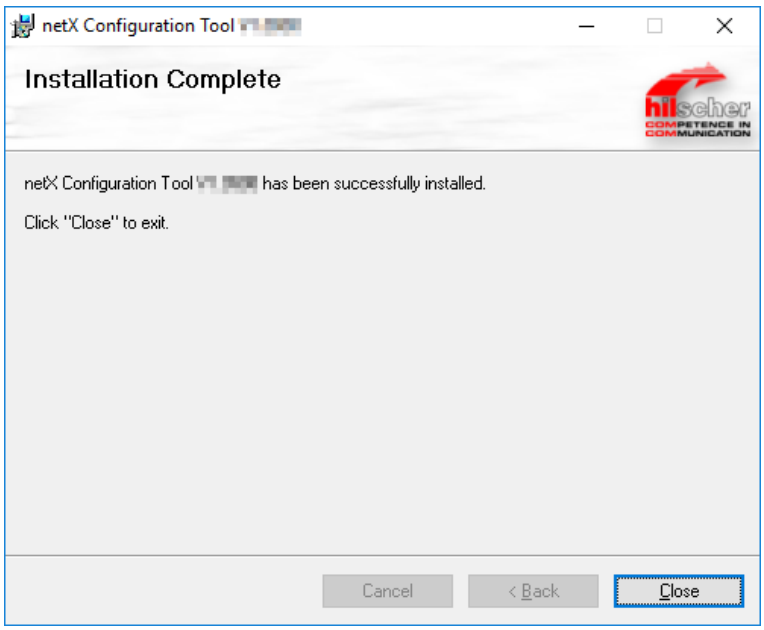

Figure 182: netX Configuration Tool Setup Wizard – Installation Complete

➢ 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** > **netX Configuration Tool**.

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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:

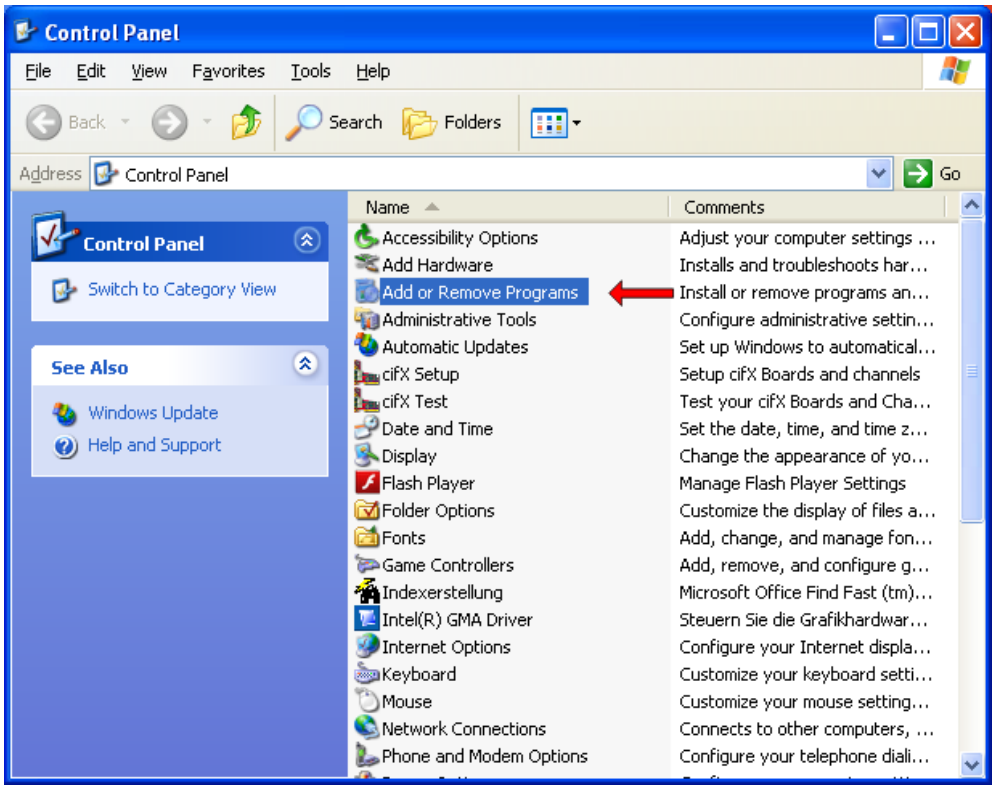

Figure 183: Control Panel

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

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

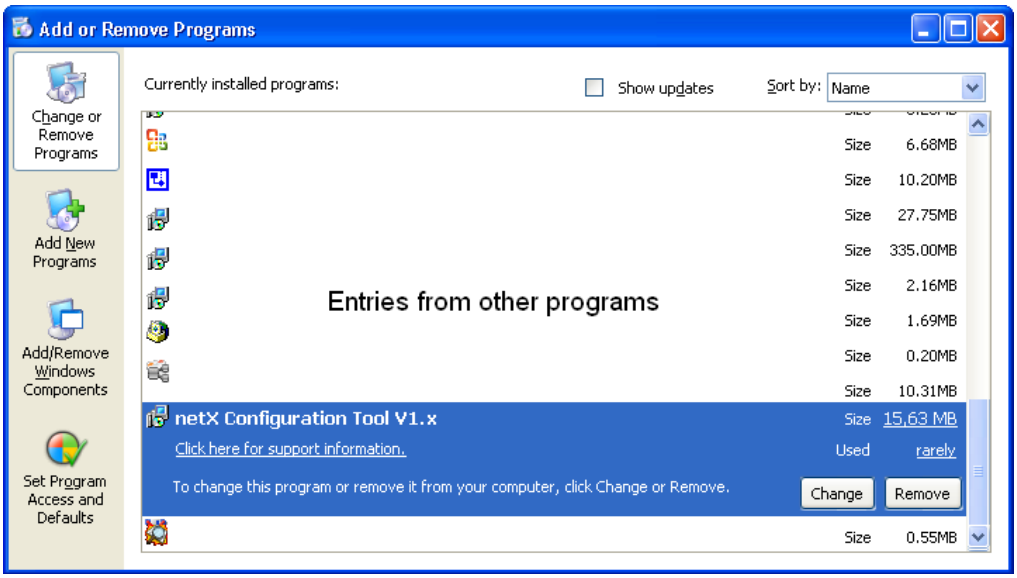

Figure 184: Add or Remove Programs

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- Select **netX Configuration Tool** entry.
- Click **Remove**.

A confirmation request appears:

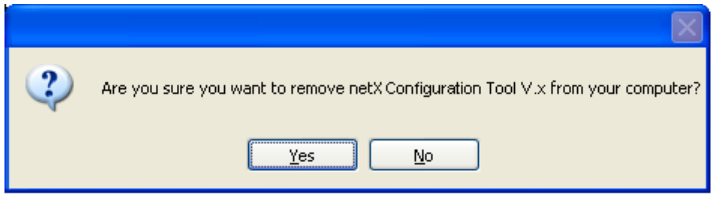

Figure 185: Confirmation Dialog

- Click **Yes**.

netX Configuration Tool is being uninstalled from your host system or PC.

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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:

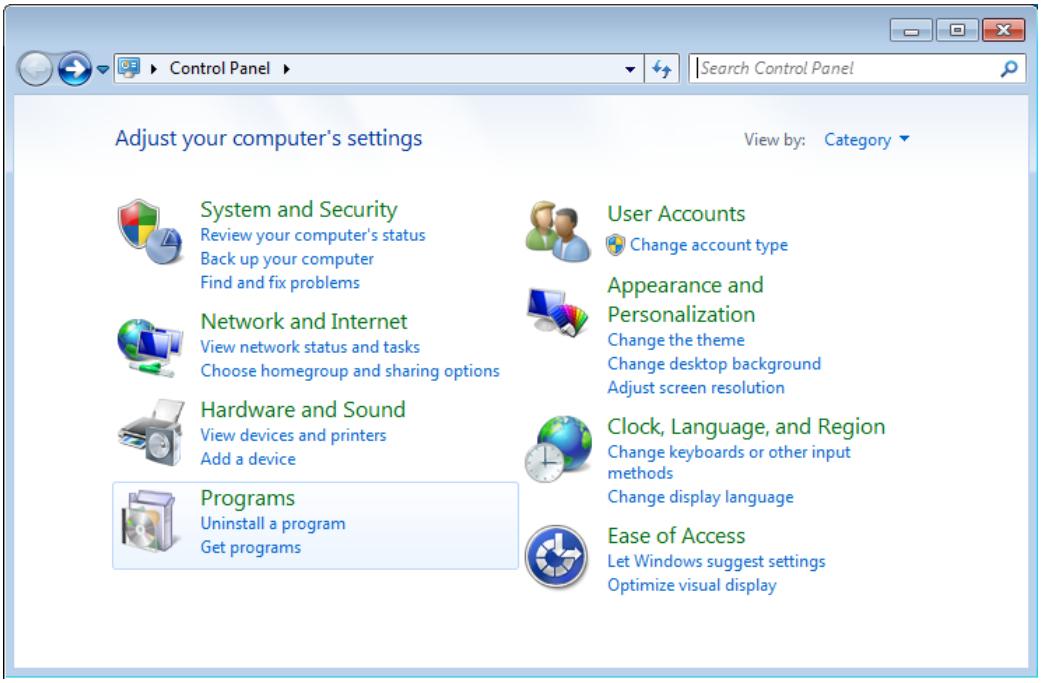

Figure 186: Adjust Your Computer's Settings Window

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

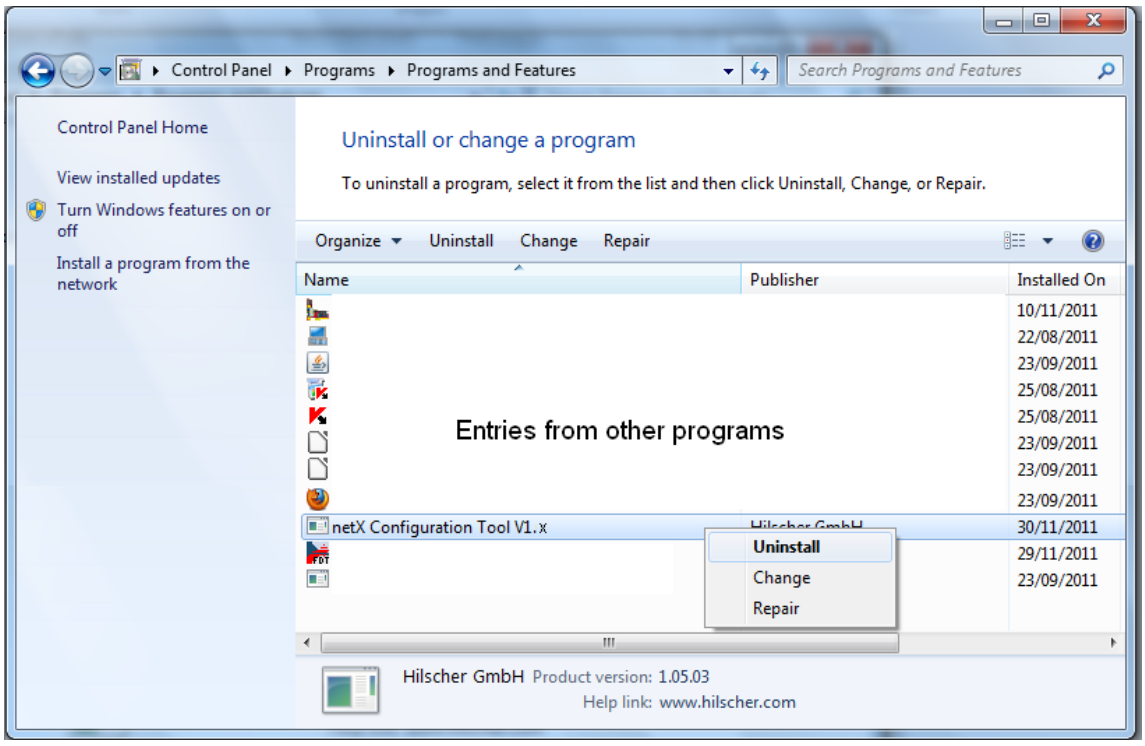

Figure 187: Uninstall or Change a Program

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➢ Right-click on the **netX Configuration Tool** entry and choose **Uninstall** from the context menu.

➧ A confirmation request appears:

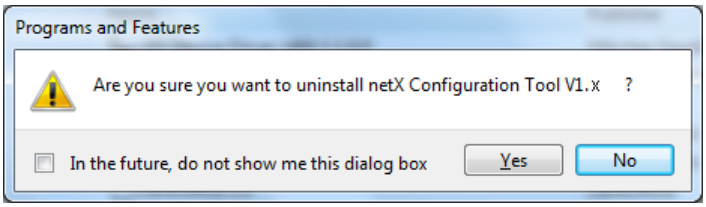

Figure 188: Confirmation Dialog

➢ Click **Yes**.

➧ netX Configuration Tool is being uninstalled from your host system or PC.

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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:

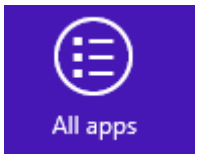

Figure 189: All Apps Button

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

Figure 190: 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**.

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

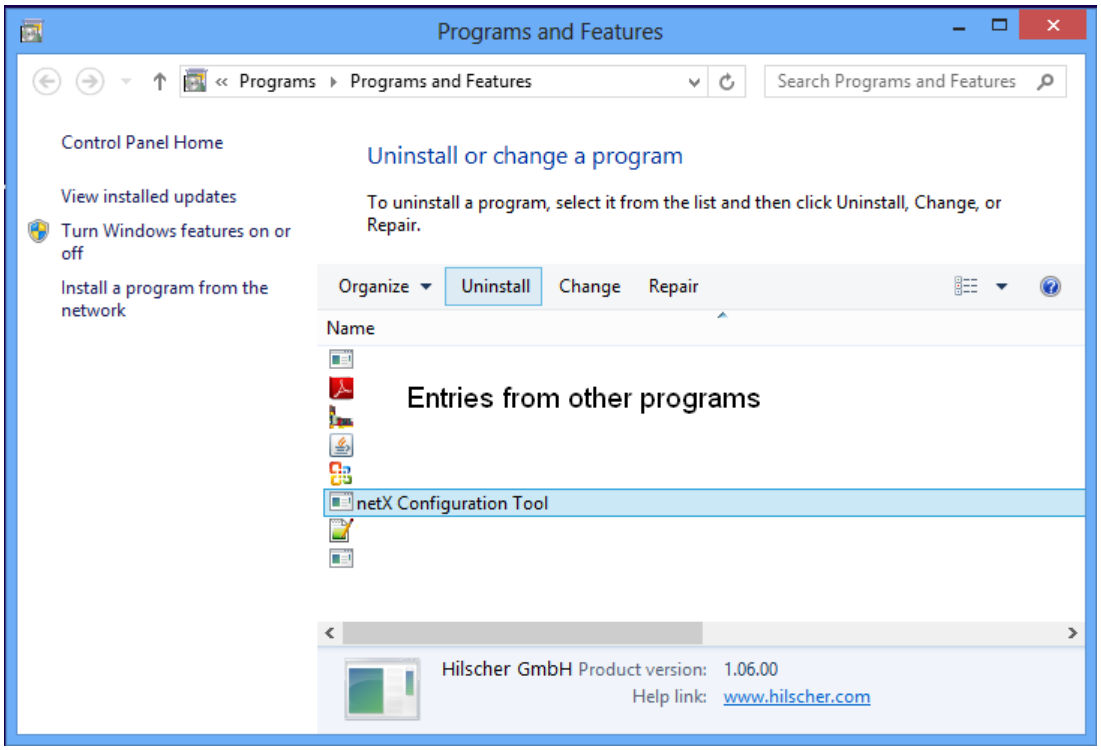

Figure 191: Programs and Features Window

- Select **netX Configuration Tool** entry.
- Above the list, click **Uninstall**.

A security question appears:

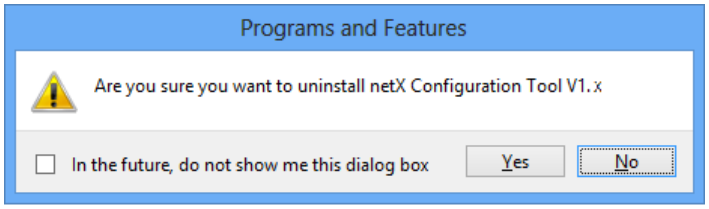

Figure 192: Acknowledge Uninstall

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

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5.3.4 Uninstalling netX Configuration Tool under Windows 10

1. Open the **Programs and Features** dialog window.

➢ Right-click on the Windows **Start** symbol, then choose **Programs and Features** entry:

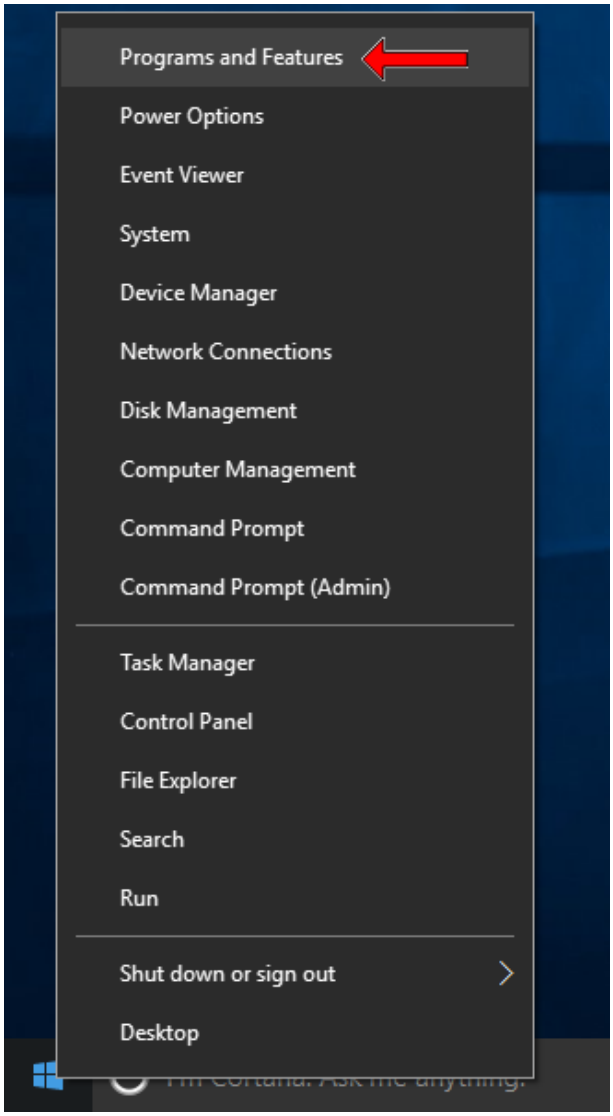

Figure 193: Open program manager in Windows 10

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

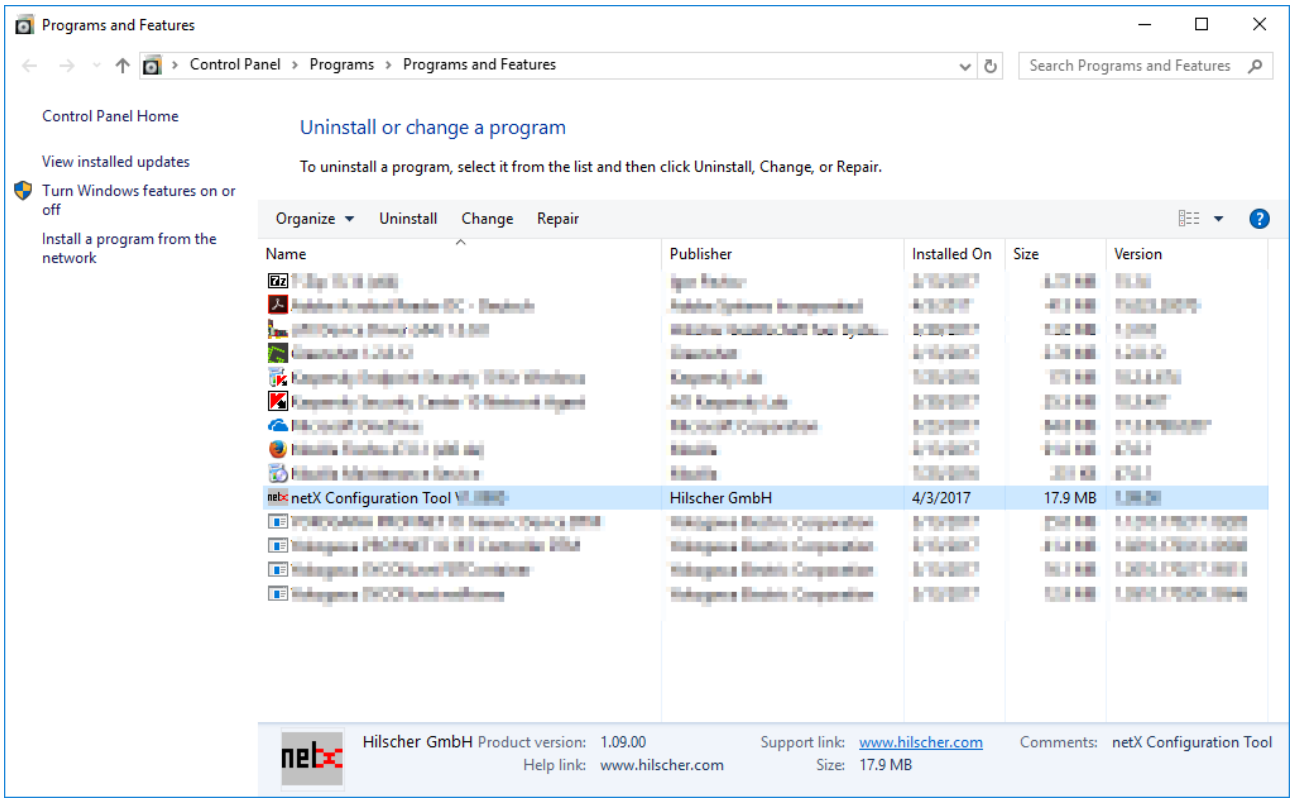

Figure 194: Uninstall or change a program window

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

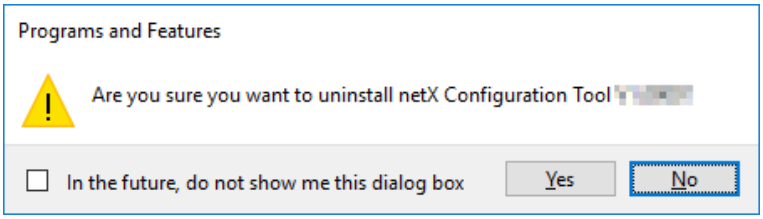

Figure 195: Acknowledge Uninstall

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

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