

User Manual Software Installation for the PC Cards cifX

Installing Drivers and Configuration Software

Hilscher Gesellschaft für Systemautomation mbH www.hilscher.com DOC120207UM37EN | Revision 37 | English | 2017-04 | Released | Public

Table of Contents

1	INTRO	DUCTION		5
	1.1	About the	User Manual	5
		1.1.1	List of Revisions	5
		1.1.2	Notes on Hardware, Firmware, Software and Driver Versions	6
	12	Contents o	f the Product DVD	، ع
	1.2	1.2.1	Installation Guide, Documentation Overview	8
		1.2.2	What's New	8
	1.3	Legal Note	S	9
	1.4	Registered	Trademarks	. 12
		1.4.1	Obligation to read and understand the Manual	12
	1.5	Licenses		. 12
2	SYSTE	MOVERV	IEW	.13
	2.1	Configurat	ion and Diagnosis	. 13
	2.2	Remote Co	pnnection via Ethernet	. 15
3	CIFX D	EVICE DR	IVER	.18
	3.1	SystemRe	quirements	. 18
	3.2	Installation	Overview	. 18
		3.2.1	Installation Sequence	18
		3.2.3	General Notes	19
	3.3	Installation	under Windows XP (Software First)	. 20
	3.4	Installation	under Windows XP (Hardware First)	. 25
	3.5	Installation	under Windows 7 (Software First)	. 26
	3.6	Installation	under Windows 7 (Hardware First)	. 29
	3.7	Installation	under Windows 8 (Software First)	. 30
	3.8	Installation	under Windows 8 (Hardware First)	. 33
	3.9	Installation	under Windows 10 (Software First)	. 34
	3.10	Installation	under Windows 10 (Hardware First)	. 37
	3.11	Checking t	he Driver Installation under Windows XP	. 38
	3.12	Checking t	he Driver Installation under Windows 7	. 39
	3.13	Checking t	he Driver Installation under Windows 8	. 40
	3.14	Checking t	he Driver Installation under Windows 10	. 41
	3.15	Uninstalling	g under Windows XP	. 43
	3.16	Uninstalling	g under Windows 7	. 45
	3.17	Uninstalling	g under Windows 8	. 50

Tab	le of Co	nts	
	3.18	Uninstalling under Windows 10	
4	USB	DRIVER	60
	4.1	SystemRequirements	60
	4.2	Installation Overview	61
	4.3	Installation under Windows XP	
	4.4	Installation under Windows 7	68
	4.5	Installation under Windows 8	72
	4.6	Installation under Windows 10	75
	4.7	Uninstalling under Windows XP	
	4.8	Uninstalling under Windows 7	79
	4.9	Uninstalling under Windows 8	
	4.10	Uninstalling under Windows 10	
5	SYCO	DN.NET	
	5.1	System Requirements	
	5.2	Installation under Windows XP	
	5.3	Installation under Windows 7	
	5.4	Installation under Windows 8	
	5.5	Installation under Windows 10	
	5.6	Uninstalling under Windows XP	
	5.7	Uninstalling under Windows 7	
	5.8	Uninstalling under Windows 8	
	5.9	Uninstalling under Windows 10	
6	NETX	CONFIGURATION TOOL	
	6.1	System Requirements	
	6.2	Online Help	
	6.3	Installation under Windows XP	
	6.4	Installation under Windows 7	
	6.5	Installation under Windows 8	
	6.6	Installation under Windows 10	
	6.7	Uninstalling under Windows XP	
	6.8	Uninstalling under Windows 7	
	6.9	Uninstalling under Windows 8	
	6.10	Uninstalling under Windows 10	
7	PC C	ARDS CIFX PC/104 (ISA)	
	7.1	SystemRequirements	
	7.2	Installation under Windows XP	

Tab	le of Co	ntents	4/194
	7.3	Installation under Windows 7	
8	HARE	DWARE SETTINGS	
	8.1	Slot Number (Card ID)	
		8.1.1 cifX Device Driver Setup	
		8.1.2 SYCON.net	
	8.2	"DMA Mode"	
9	PC SI	ETTINGS	
	9.1	Windows Power Management PC Cards cifX PCI Express	
10	APPE	ENDIX	
	10.1	List of Figures	
	10.2	List of Tables	
	10.3	Glossary	
	10.4	Contacts	

1 Introduction

1.1 About the User Manual

This user manual provides step-by-step instructions on **how to install the the software** for the PC cards cifX *PCI, PCI Express, Low Profile PCI Express, Compact PCI, Mini PCI, Mini PCI Express, PCI-104.* The software comprises the drivers and the application programs needed on a host system or configuration PC running under a Windows[®] operating system to configure and diagnose Hilscher PC cards cifX or to update the firmware of the PC cards cifX. This manual describes the installation of:

- the cifX Device Driver
- the USB Drivers
- the SYCON.net configuration software
- the netX Configuration Tool Slave configuration tool

for the operating systems:

- Windows XP
- Windows 7 (also valid for Windows VISTA)
- Windows 8
- Windows 10

Furthermore this manual describes the installation of the **PC cards cifX PC/104 (ISA)** for the operating systems:

- Windows XP
- Windows 7

as well as the required hardware settings

- Slot Number (Card ID) (in the cifX Device Driver Setup or SYCON.net)
- DMA Mode (activation in the cifX Device Driver Setup)

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

1.1.1 List of Revisions

Index	Date	Chapter	Revisions
37	15-08-10	5.1	Section System Requirements: .NET 4.0 for Topology Editor added.
	17-03-20	All	Windows 10 added, new Versions: SYCONnet netX V1.0400, netXConfigurationTool V1.0900, cifX Device Driver Version V1.3
	17-04-11	3, 4, 5, 6	Chapter <i>cifX Device Driver</i> , USB Driver, SYCON.net, netX Configuration Tool updated and descriptions for Windows 10 added.

Table 1: List of Revisions

5/194

1.1.2 Notes on Hardware, Firmware, Software and Driver Versions



Note on Software Update: For an existing hardware installation for the software update the used firmware, driver and configuration software versions functionally must be related

Driver and Software		Version
SYCON.net	SYCONnet netX setup.exe	1.0400
netX Configuration Tool-Setup	netXConfigurationUtility_Setup.exe	1.0900
cifX Device Driver	cifX Device Driver Setup.exe	1.3
Toolkit		1.4
cifX TCP/IP Server for SYCON.net	cifX TCP Server.exe	2.3
US Driver	USB Driver of Windows®	5.1.2600.x

Table 2: Reference on Driver and Software



Further information on related version stands of firmware, drivers and software, see the user manual for your device. If necessary please follow all the instructions in the latest manual edition. These can be downloaded from the website www.hilscher.com.

1.1.3 Conventions in this Manual

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

Notes



Important: <important note you must follow to avoid malfunction>



Note: <general note>



<note, where to find further information>

Operation Instructions

- 1. <instruction>
- 2. <instruction>
- or
- <instruction>

Results

result>

1.2 Contents of the Product DVD

On the **Communication Solutions DVD** you will find these installation instructions about the software installation and the necessary configuration software, the documentation, the drivers and software for your PC Card cifX, and additional auxiliary tools.

You can download this product DVD as a ZIP file from the website <u>http://www.hilscher.com</u> (under **Products**, directly with the information on your product).

1.2.1 Installation Guide, Documentation Overview



The installation guide 'Software Installation and Documentation Overview' on the Communication Solutions DVD are in the directory *Documentation\O. Installation and Overview.* The installation guide includes:

- An overview on the Content of the Communication Solutions DVD (in the section What is on the Communication Solutions DVD?)
- Overviews listing the available Documentations for PC cards cifX (in chapter PC Cards cifX, Software and Documentation).

1.2.2 What's New



All current version information for hardware and software described in this manual are provided in the folder \Documentation\What's New - Communication Solutions DVD RL XX EN.pdf on the Communication Solutions DVD.

1.3 Legal Notes

Copyright

© Hilscher Gesellschaft für Systemautomation mbH

All rights reserved.

The images, photographs and texts in the accompanying materials (in the form of a user's manual, operator's manual, Statement of Work document and all other document types, support texts, documentation, etc.) are protected by German and international copyright and by international trade and protective provisions. Without the prior written consent, you do not have permission to duplicate them either in full or in part using technical or mechanical methods (print, photocopy or any other method), to edit them using electronic systems or to transfer them. You are not permitted to make changes to copyright notices, markings, trademarks or ownership declarations. Illustrations are provided without taking the patent situation into account. Any company names and product designations provided in this document may be brands or trademarks by the corresponding owner and may be protected under trademark, brand or patent law. Any form of further use shall require the express consent from the relevant owner of the rights.

Important notes

Utmost care was/is given in the preparation of the documentation at hand consisting of a user's manual, operating manual and any other document type and accompanying texts. However, errors cannot be ruled out. Therefore, we cannot assume any guarantee or legal responsibility for erroneous information or liability of any kind. You are hereby made aware that descriptions found in the user's manual, the accompanying texts and the documentation neither represent a guarantee nor any indication on proper use as stipulated in the agreement or a promised attribute. It cannot be ruled out that the user's manual, the accompanying texts and the documentation do not completely match the described attributes, standards or any other data for the delivered product. A warranty or guarantee with respect to the correctness or accuracy of the information is not assumed.

We reserve the right to modify our products and the specifications for such as well as the corresponding documentation in the form of a user's manual, operating manual and/or any other document types and accompanying texts at any time and without notice without being required to notify of said modification. Changes shall be taken into account in future manuals and do not represent an obligation of any kind, in particular there shall be no right to have delivered documents revised. The manual delivered with the product shall apply.

Under no circumstances shall Hilscher Gesellschaft für Systemautomation mbH be liable for direct, indirect, ancillary or subsequent damage, or for any loss of income, which may arise after use of the information contained herein.

Liability disclaimer

The hardware and/or software was created and tested by Hilscher Gesellschaft für Systemautomation mbH with utmost care and is made available as is. No warranty can be assumed for the performance or flawlessness of the hardware and/or software under all application conditions and scenarios and the work results achieved by the user when using the hardware and/or software. Liability for any damage that may have occurred as a result of using the hardware and/or software or the corresponding documents shall be limited to an event involving willful intent or a grossly negligent violation of a fundamental contractual obligation. However, the right to assert damages due to a violation of a fundamental contractual obligation shall be limited to contract-typical foreseeable damage.

It is hereby expressly agreed upon in particular that any use or utilization of the hardware and/or software in connection with

- Flight control systems in aviation and aerospace;
- Nuclear fusion processes in nuclear power plants;
- Medical devices used for life support and
- Vehicle control systems used in passenger transport

shall be excluded. Use of the hardware and/or software in any of the following areas is strictly prohibited:

- For military purposes or in weaponry;
- For designing, engineering, maintaining or operating nuclear systems;
- In flight safety systems, aviation and flight telecommunications systems;
- In life-support systems;
- In systems in which any malfunction in the hardware and/or software may result in physical injuries or fatalities.

You are hereby made aware that the hardware and/or software was not created for use in hazardous environments, which require fail-safe control mechanisms. Use of the hardware and/or software in this kind of environment shall be at your own risk; any liability for damage or loss due to impermissible use shall be excluded.

Warranty

Hilscher Gesellschaft für Systemautomation mbH hereby guarantees that the software shall run without errors in accordance with the requirements listed in the specifications and that there were no defects on the date of acceptance. The warranty period shall be 12 months commencing as of the date of acceptance or purchase (with express declaration or implied, by customer's conclusive behavior, e.g. putting into operation permanently).

The warranty obligation for equipment (hardware) we produce is 36 months, calculated as of the date of delivery ex works. The aforementioned provisions shall not apply if longer warranty periods are mandatory by law pursuant to Section 438 (1.2) BGB, Section 479 (1) BGB and Section 634a (1) BGB [Bürgerliches Gesetzbuch; German Civil Code] If, despite of all due care taken, the delivered product should have a defect, which already existed at the time of the transfer of risk, it shall be at our discretion to either repair the product or to deliver a replacement product, subject to timely notification of defect.

The warranty obligation shall not apply if the notification of defect is not asserted promptly, if the purchaser or third party has tampered with the products, if the defect is the result of natural wear, was caused by unfavorable operating conditions or is due to violations against our operating regulations or against rules of good electrical engineering practice, or if our request to return the defective object is not promptly complied with.

Costs of support, maintenance, customization and product care

Please be advised that any subsequent improvement shall only be free of charge if a defect is found. Any form of technical support, maintenance and customization is not a warranty service, but instead shall be charged extra.

Additional guarantees

Although the hardware and software was developed and tested in-depth with greatest care, Hilscher Gesellschaft für Systemautomation mbH shall not assume any guarantee for the suitability thereof for any purpose that was not confirmed in writing. No guarantee can be granted whereby the hardware and software satisfies your requirements, or the use of the hardware and/or software is uninterruptable or the hardware and/or software is fault-free.

It cannot be guaranteed that patents and/or ownership privileges have not been infringed upon or violated or that the products are free from third-party influence. No additional guarantees or promises shall be made as to whether the product is market current, free from deficiency in title, or can be integrated or is usable for specific purposes, unless such guarantees or promises are required under existing law and cannot be restricted.

Confidentiality

The customer hereby expressly acknowledges that this document contains trade secrets, information protected by copyright and other patent and ownership privileges as well as any related rights of Hilscher Gesellschaft für Systemautomation mbH. The customer agrees to treat as confidential all of the information made available to customer by Hilscher Gesellschaft für Systemautomation mbH and rights, which were disclosed by Hilscher Gesellschaft für Systemautomation mbH and that were made accessible as well as the terms and conditions of this agreement itself.

The parties hereby agree to one another that the information that each party receives from the other party respectively is and shall remain the intellectual property of said other party, unless provided for otherwise in a contractual agreement.

The customer must not allow any third party to become knowledgeable of this expertise and shall only provide knowledge thereof to authorized users as appropriate and necessary. Companies associated with the customer shall not be deemed third parties. The customer must obligate authorized users to confidentiality. The customer should only use the confidential information in connection with the performances specified in this agreement.

The customer must not use this confidential information to his own advantage or for his own purposes or rather to the advantage or for the purpose of a third party, nor must it be used for commercial purposes and this confidential information must only be used to the extent provided for in this agreement or otherwise to the extent as expressly authorized by the disclosing party in written form. The customer has the right, subject to the obligation to confidentiality, to disclose the terms and conditions of this agreement directly to his legal and financial consultants as would be required for the customer's normal business operation.

Export provisions

The delivered product (including technical data) is subject to the legal export and/or import laws as well as any associated regulations of various countries, especially such laws applicable in Germany and in the United States. The products / hardware / software must not be exported into such countries for which export is prohibited under US American export control laws and its supplementary provisions. You hereby agree to strictly follow the regulations and to yourself be responsible for observing them. You are hereby made aware that you may be required to obtain governmental approval to export, reexport or import the product.

1.4 Registered Trademarks

Windows[®] XP, Windows[®] Vista, Windows[®] 7, Windows[®] 8, Windows[®] 8.1 and Windows[®] 10 are registered trademarks of Microsoft Corporation.

Linux is a registered trademark of Linus Torvalds.

QNX is a registered trademark of QNX Software Systems, Ltd.

VxWorks is a registered trademark of Wind River Systems, Inc.

IntervalZero RTX [™] is a trademark of IntervalZero.

 $\mathsf{Adobe}\text{-}\mathsf{Acrobat}^{\texttt{®}}$ is a registered trademark of the Adobe Systems Incorporated.

PCI[™], PCI EXPRESS[®] und PCIe[®] or MINI PCI[™] are trademarks or registered trademarks of the Peripheral Component Interconnect Special Interest Group (PCI-SIG).

CompactPCI[™] is a trademark of the PCI Industrial Manufacturers Group (PICMG).

PC/104[™], PCI-104[™], PCI/104-Express[™] and PCIe/104[™] are trademarks of the PC/104 Consortium (pc104.org).

All other mentioned trademarks are property of their respective legal owners.

1.4.1 Obligation to read and understand the Manual



Important!

- To avoid property damage to your system or to your device, you must read and understand all instructions in the manual, before installing the software.
- Keep the product DVD as ZIP file providing the product manuals.

1.5 Licenses

If a PC Card cifX is used as a Slave, neither for the firmware nor for the configuration software SYCON.net a license will be required.

Licenses will be required if the PC Card cifX is used with

• a firmware with master functionality*.

* The master license includes the PC Card cifX operating as master and the license for the configuration software SYCON.net for the respective cifX.

2 System Overview

2.1 Configuration and Diagnosis

The following system overviews show which system components must be installed on the PC and how they communicate together to configure the PC Card cifX and to use the diagnosis functions.

PC Card cifX with Master Protocol

If on the PC Card cifX a Real-Time Ethernet protocol or a fieldbus protocol with Master functionality is operated, the configuration and the diagnosis of the PC Card cifX will be done with **SYCON.net**.

The following software components are required:

- Configuration and diagnosis program **SYCON.net** (contains the installed component Online Data Manager ODMV3)
- Device Driver (cifX Device Driver)



Figure 1: System Overview cifX and SYCON.net

PC Card cifX with Slave Protocol

If on the PC Card cifX a Real-Time Ethernet protocol or a fieldbus protocol with Slave functionality is operated, the configuration and the diagnosis of the PC Card cifX will be done with the configuration software **SYCON.net** or alternatively with the simple Slave configuration tool **netX Configuration Tool**.

If you use SYCON.net, the following software components will be required:

- Configuration and diagnosis program **SYCON.net** (contains the installed component Online Data Manager ODMV3)
- Device Driver (cifX Device Driver)



Figure 2: System Overview cifX and SYCON.net

If you use the **netX Configuration Tool**, the following software components will be required:

- Slave configuration tool **netX Configuration Tool** (configuration and diagnosis program)
- Device Driver (cifX Device Driver)



Figure 3: System Overview cifX and netX Configuration Tool

2.2 Remote Connection via Ethernet

Via Ethernet the program **SYCON.net** can establish for *diagnosis purposes* a connection to another PC (in the example PC 2), in which the PC Card cifX is installed.

Beginning with version 2.1.0.0 of the cifX TCP/IP Server for Windows[®] systems, the Ethernet connection from the remote PC (PC 1) to the PC Card cifX on PC 2 can be used for *remote configuration*. With **SYCON.net** from PC 1 to PC 2 a firmware download and configuration download can be executed as a *remote-download* of the firmware file or configuration file to the PC Card cifX.



Detailed information on remote configuration and remote download can be found in the operating instruction manual "cifX TCP / IP server".

The system overview in *Figure 1* or *Figure 2* show each which components must be installed on the remote PC (PC 1) or the local PC (PC 2) and how they communicate together, so that the diagnosis functions and respectively the remote configuration and the remote download can be used.

The following software components are required for **PC 1** (remote PC):

 Program SYCON.net (contains the installed component Online Data Manager ODMV3)

The following software components are required for PC 2 (local PC):

- Server program (cifX TCP/IP server)
- Device Driver (cifX Device Driver)

Furthermore between PC 1 and PC 2

• Ethernet PC network



Figure 4: System Overview cifX (Master) and Remote Connection via Ethernet

The *Figure 4* shows the case that the PC Card cifX works as a Master with several connected Slave devices.

It is also possible that the PC Card cifX works as a Slave. The *Figure 5* only shows the case that the PC Card cifX works as a Slave.



Figure 5: System Overview cifX (Slave) and Remote Connection via Ethernet

Requirements for Use

- The PC Card cifX in **PC 2** (local PC) must be installed and operational, this means, firmware and configuration must already be loaded on the PC Card cifX.
- The device driver (cifX device driver) must be installed and started.
- The server program (cifX TCP/IP server) must be started.

The cifX TCP/IP server program is on the Communication Solutions DVD in the directory *Tools* \ *cifXTCPServer* \ and has the name *cifXTCPServer.exe*. The program must not be installed, but needs only be executed.

3 cifX Device Driver

3.1 SystemRequirements

In order to download the product DVD, you need an Internet access.

The system requirements listed below are valid for the cifX Device Driver:

- PC with 586-, Pentium® processor or higher
- Windows[®] XP, Windows[®] Vista (32-Bit) SP2, Windows[®] 7 (32- and 64-Bit) SP1, Windows[®] 8 (32- and 64-Bit), Windows[®] 10 (32- and 64-Bit)
- Administrator privilege is required for installation and to configure the driver
- Free disk space: min. 100 MByte
- USB (optional)
- PC card cifX

3.2 Installation Overview

3.2.1 Installation Sequence

First, install the cifX Device Driver and afterwards your device hardware.



Note: Uninstall a previous Version of the Driver

If you have already installed a previous version of the cifX Device Driver than first uninstall this.

You can uninstall the cifX Device Driver via **Start > Settings > Control Panel > Add or Remove Programs > cifX Device Driver Vx.x.x.x** and click **Remove**.

1. Install the Driver



Important: Install the cifX Device Driver only by help of the cifX Device Driver Setup.



Note: You need administrator privileges for the cifX Device Driver installation!

The cifX Device Driver Setup installation automatically detects your Windows operating system and installs the corresponding driver. Follow the installation instruction on the screen. A detailed description can be found in this manual in the sections *Installation under Windows XP* (Software First) page 20, Installation under Windows 7 (Software First) page 26 and Installation under Windows 8 (Software First) page 30.

2. Install the Hardware

3. Check the Installation

After you have completed the installation of the cifX Device Driver and the device hardware, you can use the Windows Device Manager to check the correct installation and if the hardware is detected by the driver.



Note: The device hardware still has to be configured.



For further details refer to the operating instruction manual **cifX Device Driver, Installation and Operation for Windows XP/Vista/7/8/10** on the **Communication Solutions DVD**.

3.2.2 Where the Driver Setup is to be found?

You can find the installation program *cifX Device Driver Setup.exe* on your product CD or DVD, which you can download from the website <u>http://www.hilscher.com</u> (under products, directly on the product information). Or you can download the installation program directly from the Hilscher website.

Medium	Name/Address	Directory / Menu Item
CD / DVD	NXDRV-WIN CD	Vinstallation
as ZIP file	Communication Solutions DVD	\Driver and Toolkit\Device Driver (NXDRV-WIN)\Installation
Web	www.hilscher.com	Support > Download

Table 3: Where the Driver Setup is to be found?

3.2.3 General Notes



Note: For Windows[®] XP/Vista/7/8/10 the cifX Device Driver setup detects if the 32 bit driver or the 64 bit driver are to be installed.

- For 32 bit systems the name cifX Device Driver (x86) is displayed and
- for 64 bit systems the name cifX Device Driver (x64) is displayed.

3.3 Installation under Windows XP (Software First)

Requirement

The following steps describe the installation of the cifX Device Driver for Windows[®] XP via the cifX Device Driver Setup if the device hardware is not installed yet.

Installation Steps

- 1. Close all application programs on the system and download the Communication Solutions DVD as a ZIP-file to the local hard disk of your PC and unpack it.
- 2. Double-click the Communication-Solutions.exe file in the root directory of the DVD to open the Autostart menu.
- ✤ The startup screen Communication Solutions is displayed.

	Installation Guide	
	Install SYCON.net Configuration Software	Com and a second
	Discumentation	A CONTRACTOR OF THE PARTY OF TH
1	Install city (nat IACK Davise Driver	Cor Manager
₽	Install USP Diagnosis Driver	
	Install USB SPM Driver	
	Start netHOST for Remote access	
	Install Slave Configuration Software	
	Driver-Toolkit for Programmers	all a sheet
	/ animaly / cono	N
		15

Figure 6: Start the Installation for the cifX Device Driver

- On the Autostart menu, select Drivers, Software and Tools > Install cifX / netJACK Device Driver.
- ✤ The language of the graphical user interface of the cifX Device Driver setup is selected automatically for *German*, *French* and *English* and for all the other languages the graphical user interface is in *English*.
- ✤ The License Agreement pane is displayed.



Figure 7: cifX Device Driver-Setup - License Agreement

- 3. Check I accept the terms in the License Agreement.
- Click Install.
- ✤ The cifX Device Driver installation is started.

🙀 cifX Device Driver (x86) 1.3.0.0 Setup	_ 🗆 🛛
Installing cifX Device Driver (x86) 1.3.0.0	
Please wait while the Setup Wizard installs cifX Device Driver (x86) 1.3.0.0.	
Status:	
(**************************************	
<u>B</u> ack <u>N</u> ext	Cancel

Figure 8: cifX Device Driver Installation is running

✤ Then the Completed the cifX Device Driver Setup Wizard pane is displayed.



Figure 9: cifX Device Driver Installation is completed

- Click Finish.
- 4. Now shut down your PC and install your device hardware.

You need to perform the installation of the device hardware according to the specifications given in the user manual for your device.



Important: For the hardware installation, you must observe all safety precautions and warnings in the user manual.

5. Restart the PC.



Note: When the installation of the cifX Device Driver and of the device hardware is complete, you need to restart your PC, to activate the current configuration of the device driver.

Note for Windows XP: After executing the cifX Device Driver setup the installation files of cifX Device Driver are backuped in the driver directory. If you have installed your devices hardware and restarted the PC system, Windows will detect the new hardware and asks you via the **Found New Hardware Wizard** to perform final installation steps. To complete the installation of the cifX Device Driver, for Windows XP, you must run the wizard manually, as described hereafter. Using the wizard, then the physical installation of your device is performed, during which various driver installation files will be copied from the driver directory into the Windows directory.

How to run the Wizard for Windows XP manually:

After you have executed the cifX Device Driver setup and installed the device hardware or restarted the PC, for Windows XP the Found New Hardware Wizard appears:



Figure 10: Found New Hardware Wizard: Select 'No, not this time'

- Select No, not this time.
- Click Next.

Found New Hardware Wizard
Image: state of the state
< <u>B</u> ack <u>N</u> ext> Cancel

Figure 11: Found New Hardware Wizard: Select 'Install the software automatically'

- > Select Install the software automatically [Recommended].
- > Then click Next.
- ♣ Windows copies the driver installation files to the Windows directory.



Figure 12: Found New Hardware Wizard: Software is installed

✤ Then the **Finish** pane appears:



Figure 13: Found New Hardware Wizard: Click 'Finish'

- > Click Finish.
- ✤ The Installation of the cifX Device Driver is complete and the cifX Device Driver is ready for operation.

3.4 Installation under Windows XP (Hardware First)

Requirement

The following steps describe the installation of the cifX Device Driver for Windows[®] XP, when the hardware installation is already complete.



Note: If the hardware gets installed at the PC before the cifX Device Driver installation has been done, the Windows[®] Found New Hardware Wizard is started and the operating system Windows[®] asks for the driver.

Preparation

The installation of the device hardware you need to perform according to the specifications given in the user manual for your device.



Important: For the hardware installation, you must observe all safety precautions and warnings in the user manual.

Installation Steps

To install the cifX Device Driver proceed as described hereafter:

- 1. After the installation of the device hardware restart your PC.
- ⇒ Windows[®] XP recognizes the PCI based device hardware automatically.
- ⇒ The message Found New Hardware is displayed.



Figure 14: Found New Hardware (Example for PC card cifX)

- 2. Close the Found New Hardware message.
- 3. Now install the cifX Device Driver via the *cifX Device Driver Setup.exe* file.



Note: After you have completed the installation of the device hardware and of the cifX Device Driver, you need to restart your PC.

✤ After the restart the PC automatically detect your netX based device hardware and the cifX Device Driver is started.

3.5 Installation under Windows 7 (Software First)

Requirement

The following steps describe the installation of the **cifX Device Driver** for Windows[®] VISTA and Windows[®] 7 via the cifX Device Driver Setup if the device hardware is not yet installed.

Installation Steps

- 1. Close all application programs on the system and download the Communication Solutions DVD as a ZIP-file to the local hard disk of your PC and unpack it.
- 2. Double-click the Communication-Solutions.exe file in the root directory of the DVD to open the Autostart menu.
- ✤ The startup screen Communication Solutions is displayed.

	Installation Guide	
	Documentation	Comments of the second
	Drivers Software and Tools	and the second second
	Install cifX / netJACK Device Driver	Con Marriell
1	Install USB Diagnosis Driver	
	Install USB SPM Driver	
	Start netHOST for Remote access	
	Install Slave Configuration Software	
	Driver-Toolkit for Programmers	a didda a 1
	Auxiliary Tools	
		herCAT. TEtherivet/IP

Figure 15: Start the Installation for the cifX Device Driver

- 3. Start the driver setup.
- On the Autostart menu, select Drivers, Software and Tools > Install cifX / netJACK Device Driver.
- Or start the driver setup by double-clicking on the *cifX Device Driver* Setup.exe (in the directory ... \Driver and Toolkit\Device Driver (NXDRV-WIN)\Installation) or alternatively by right-click and Run as Administrator.



Note: Reduce the number of Windows[®] security requests by running the driver setup as administrator. You also need administrator rights to uninstall the software.

👸 cifX Device Driv	/er Se	tup	
driver_history		Open	k
	۲	Run as administrator	L
		Troubleshoot compatibility	L
	K	Auf Viren untersuchen	L
		Always available offline	L
		Restore previous versions	l
		Send to	l
		Cut	L
		Сору	L
		Create shortcut	L
		Delete	
		Rename	
		Properties	

Figure 16: Running cifX Device Driver Setup.exe as administrator

- When you start the driver setups as an administrator, a Windows[®] security request appears. Click Yes.
- ✤ The License Agreement pane is displayed.



Figure 17: cifX Device Driver Setup - License Agreement

- 4. Check I accept the terms in the License Agreement.
- Click Install.
- If Windows[®] displays during installation a security request, answer it with Install.
- ✤ The cifX Device Driver installation is started.



Figure 18: cifX Device Driver Installation is running

➡ The Completed the cifX Device Driver Setup Wizard pane is displayed.



Figure 19: cifX Device Driver Installation is completed

Click Finish.

5. Shut down your PC and install your device hardware.

Perform the installation of the device hardware according to the specifications in the user manual of your device.



Important: Obey all safety and warning instructions for the hardware installation in the user manual!

6. Restart the PC.

 \rightarrow

Note: When the installation of the cifX Device Driver and of the device hardware is complete, you need to restart your PC, to activate the current configuration of the device driver.

✤ After restart, the PC automatically detects your netX based device hardware, and the cifX Device Driver is started.

3.6 Installation under Windows 7 (Hardware First)

Requirement

The following steps describe the installation of the cifX Device Driver for Windows[®] VISTA and Windows[®] 7, when the hardware installation is already complete.



Note: If the hardware gets installed at the PC before the cifX Device Driver installation has been done, the Windows[®] Found New Hardware Wizard is started and the operating system Windows[®] asks for the driver.

Preparation

The installation of the device hardware you need to perform according to the specifications given in the user manual for your device.



Important: For the hardware installation, you must observe all safety precautions and warnings in the user manual.

Installation Steps

To install the cifX Device Driver proceed as described hereafter:

- 1. After the installation of the device hardware restart your PC.
- ➡ Windows[®] VISTA respectively Windows[®] 7 recognize the PCI based device hardware automatically.
- The message **Device driver software was not successfully installed** is displayed.



Figure 20: Device Driver Software was not successfully installed

- 2. Close the **Device driver software was not successfully installed** message.
- 3. Now install the cifX Device Driver via the *cifX Device Driver Setup.exe* file.



Note: After you have completed the installation of the device hardware and of the cifX Device Driver, you need to restart your PC.

P→ After the restart the PC automatically detect your netX based device hardware and the cifX Device Driver is started.

3.7 Installation under Windows 8 (Software First)

Requirement

The following steps describe the installation of the **cifX Device Driver** for Windows[®] 8 via the cifX Device Driver Setup if the device hardware is not yet installed.

Installation Steps

- 1. Close all application programs on the system and download the Communication Solutions DVD as a ZIP-file to the local hard disk of your PC and unpack it.
- 2. Double-click the Communication-Solutions.exe file in the root directory of the DVD to open the Autostart menu.
- ♣ The startup screen **Communication Solutions** is displayed.

	Installation Guide	
	Documentation	1000mm
	Drivers Software and Tools	and the second second
L.	Install cifX / netJACK Device Driver	De Marrie
1	Install USB Diagnosis Driver	
	Install USB SPM Driver	
	Start netHOST for Remote access	
	Install Slave Configuration Software	and the second s
	Driver-Toolkit for Programmers	A A A A A A A
	Auxiliary Tools	
	CANODER CC-Link DeviceNet	EtherCAT EtherNet/IP

Figure 21: Start the Installation for the cifX Device Driver

- 3. Start the driver setup.
- On the Autostart menu, select Drivers, Software and Tools > Install cifX / netJACK Device Driver.
- Or start the driver setup by double-clicking on the *cifX Device Driver* Setup.exe (in the directory ... \Driver and Toolkit\Device Driver (NXDRV-WIN)\Installation) or alternatively by right-click and Run as Administrator.



Note: Reduce the number of Windows[®] security requests by running the driver setup as administrator. You also need administrator rights to uninstall the software.

👸 cifX Device Driver	Setur		N	Application	12,271 KB
🗒 cifX Device Driver		Open	И	Windows Installer	5,671 KB
👸 cifX Device Driver		Pin to Start	М	Windows Installer	6,461 KB
	0	Run as administrator			
		Troubleshoot compatibility			
		Always available offline			
		Restore previous versions			
		Send to +			
		Cut			
		Сору			
		Create shortcut			
		Delete			
		Rename			
		Properties			

Figure 22: Running cifX Device Driver Setup.exe as administrator

- When you start the driver setups as an administrator, a Windows[®] security request appears. Click Yes.
- ✤ The License Agreement pane is displayed.



Figure 23: cifX Device Driver Setup - License Agreement

- 4. Check I accept the terms in the License Agreement.
- Click Install.
- 5. If Windows $^{\ensuremath{\text{e}}}$ displays during installation a security request, answer it with **Install**.
- ✤ The cifX Device Driver installation is started.



Figure 24: cifX Device Driver Installation is running

➡ The Completed the cifX Device Driver Setup Wizard pane is displayed.



Figure 25: Installation for cifX Device Driver completed

Click Finish.

6. Shut down your PC and install your device hardware.

Perform the installation of the device hardware according to the specifications in the user manual of your device.



Important: Obey all safety and warning instructions for the hardware installation in the user manual!

7. Restart the PC.

 \rightarrow

Note: When the installation of the cifX Device Driver and of the device hardware is complete, you need to restart your PC, to activate the current configuration of the device driver.

✤ After restart, the PC automatically detects your netX based device hardware, and the cifX Device Driver is started.

3.8 Installation under Windows 8 (Hardware First)

Requirement

The following steps describe the installation of the cifX Device Driver for Windows[®] 8, when the hardware installation is already complete.



Note: If the hardware gets installed at the PC before the cifX Device Driver installation has been done, the Windows[®] **Found New Hardware Wizard** is started and the operating system Windows[®] asks for the driver.

Preparation

The installation of the device hardware you need to perform according to the specifications given in the user manual for your device.



Important: For the hardware installation, you must observe all safety precautions and warnings in the user manual.

Installation Steps

To install the cifX Device Driver proceed as described hereafter:

- 1. After the installation of the device hardware restart your PC.
- ⇒ Windows[®] 8 recognizes the PCI based device hardware automatically.
- 2. Now install the cifX Device Driver via the *cifX Device Driver Setup.exe* file.



Note: After you have completed the installation of the device hardware and of the cifX Device Driver, you need to restart your PC.

After the restart the PC automatically detect your netX based device hardware and the cifX Device Driver is started.

3.9 Installation under Windows 10 (Software First)

Requirement

The following steps describe the installation of the **cifX Device Driver** for Windows[®] 10 via the cifX Device Driver Setup if the device hardware is not yet installed.

Installation Steps

- Close all application programs on the system and download the Communication Solutions DVD as a ZIP-file to the local hard disk of your PC and unpack it.
- 2. Double-click the Communication-Solutions.exe file in the root directory of the DVD to open the Autostart menu.
- ✤ The startup screen Communication Solutions is displayed.

1.	notall EVCON pat Configuration Software	
	Documentation	100mm
E	Drivers Software and Tools	1 Contraction difference
	Install citX / net IACK Device Driver	Correction of the second
P	Install USB Diagnosis Driver	
	Install USB SPM Driver	
	Start netHOST for Remote access	
	Install Slave Configuration Software	
	Driver-Toolkit for Programmers	Att A IN
	Auxiliary Tools	
	North Contraction of the Contrac	

Figure 26: Start the Installation for the cifX Device Driver

- 3. Start the driver setup.
- On the Autostart menu, select Drivers, Software and Tools > Install cifX / netJACK Device Driver.
- Or start the driver setup by double-clicking on the *cifX Device Driver* Setup.exe (in the directory ... \Driver and Toolkit\Device Driver (NXDRV-WIN)\Installation) or alternatively by right-click and Run as Administrator.



Note: Reduce the number of Windows[®] security requests by running the driver setup as administrator. You also need administrator rights to uninstall the software.

1

👸 cifX Device	Drive	or Sotup	2/10/2016 12-24 DM	Application	
👸 cifX Devic		Open			
🛃 cifX Devic	•	Run as administrator			
		Troubleshoot compatibility			
		Pin to Start			
		7-Zip			>
		CRC SHA			>
		Führen Sie die Überprüfung	mit Windows Defende	er durch	
	K	Auf Viren untersuchen			
	K	In die Quarantäne verschieb	en		
		Pin to taskbar			
		Restore previous versions			
		Send to			>
		Cut			
		Сору			
		Create shortcut			
		Delete			
		Rename			
	_	Properties			

Figure 27: Running cifX Device Driver Setup.exe as administrator

- When you start the driver setups as an administrator, a Windows[®] security request appears. Click Yes.
- ✤ The License Agreement pane is displayed.



Figure 28: cifX Device Driver Setup - License Agreement

- 4. Check I accept the terms in the License Agreement.
- Click Install.
- If Windows[®] displays during installation a security request, answer it \triangleright with Install.
- [№] The cifX Device Driver installation is started.



Figure 29: cifX Device Driver Installation is running

✤ The Completed the cifX Device Driver Setup Wizard pane is displayed.



Figure 30: cifX Device Driver Installation is completed

- > Click Finish.
- 5. Shut down your PC and install your device hardware.

Perform the installation of the device hardware according to the specifications in the user manual of your device.



Important: Obey all safety and warning instructions for the hardware installation in the user manual!

6. Restart the PC.



Note: When the installation of the cifX Device Driver and of the device hardware is complete, you need to restart your PC, to activate the current configuration of the device driver.

✤ After restart, the PC automatically detects your netX based device hardware, and the cifX Device Driver is started.
3.10 Installation under Windows 10 (Hardware First)

Requirement

The following steps describe the installation of the cifX Device Driver for Windows[®] 10, when the hardware installation is already complete.



Note: If the hardware gets installed at the PC before the cifX Device Driver installation has been done, the Windows[®] **Found New Hardware Wizard** is started and the operating system Windows[®] asks for the driver.

Preparation

The installation of the device hardware you need to perform according to the specifications given in the user manual for your device.



Important: For the hardware installation, you must observe all safety precautions and warnings in the user manual.

Installation Steps

To install the cifX Device Driver proceed as described hereafter:

- 1. After the installation of the device hardware restart your PC.
- ⇒ Windows[®] 10 recognizes the PCI based device hardware automatically.
- 2. Now install the cifX Device Driver via the *cifX Device Driver Setup.exe* file.



Note: After you have completed the installation of the device hardware and of the cifX Device Driver, you need to restart your PC.

After the restart the PC automatically detect your netX based device hardware and the cifX Device Driver is started.

3.11 Checking the Driver Installation under Windows XP

When the installation of the cifX Device Driver and installation of the device hardware are complete, check in the Device Manager whether your netX based device hardware is installed properly. Do the following steps:

- 1. Open the Device Manager.
- Select Start > Settings > Control Panel.
- > Double click on the icon **System**.
- ✤ The System Properties pane is displayed.

System Properties
System Restore Automatic Updates Remote General Computer Name Hardware Advanced
Device Manager The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device. Device Manager
Drivers Driver Signing lets you make sure that installed drivers are compatible with Windows. Windows Update lets you set up how Windows connects to Windows Update for drivers. Driver Signing Windows Update
Hardware Profiles Hardware profiles provide a way for you to set up and store different hardware configurations.
Hardware Profiles
OK Cancel Apply

Figure 31: System Properties

- Click on Device Manager.
- ✤ The Device Manager starts.
- 2. Check, whether the Windows[®] Device Manager display shows the correct name for your device.

Example: This example shows the name **CIFx Communication Interface** > **cifX PCI/PCIe Device** for the PC card cifX





3.12 Checking the Driver Installation under Windows 7

When the installation of the cifX Device Driver and the device hardware are complete, check in the Device Manager, whether your netX based device hardware is installed correctly. Do the following steps:

1. Open Start



- 2. Search and start the Device Manager
- > Enter **Device Manager** into the search field.

Control Panel (3)
🚔 Device Manager
🖶 View devices and printers
🚔 Update device drivers
₽ See more results
Device Manager × Shut down +

Figure 32: Control Panel

- Click on Device Manager.
- ✤ The Device Manager starts.
- 3. Check, whether the Windows[®] Device Manager display shows the correct name for your device.

Example: This example shows the name **cifX Communication Interface** > **cifX PCI/PCIe Device** for the PC card cifX

cifX Communication Interface

 Image: CifX PCI/PCIe Device

 \rightarrow

3.13 Checking the Driver Installation under Windows 8

When the installation of the cifX Device Driver and the device hardware are complete, check in the Device Manager, whether your netX based device hardware is installed correctly. Do the following steps:

- Start User 🔍 e \sim 0 22 **I**ÎI 2 20 :-) \cap 4 **a**
- 1. Open Windows® 8 Start Screen.

Figure 33: Startbildschirm Windows 8

- 2. Search and start the Device Manager.
- Press the keys [Win] and [F].
- > Select Settings.
- > Enter **Device Manager** into the search field.

2			Dev
🔅 Devices	Devices and Printers System Device Manager	Manage audi	
Add device	Device Manager	AutoPlay	P Apps
Add Bluetooth device	View devices and printers	Sound	Settings
Rename device	Change device installation settings	Set up USB g	Files
Remove device	Find and fix problems with devices	Install option	Finance
Install device software on metered Internet connections	View network computers and devices	Save backup History	C Internet Explorer
HomeGroup	Change default settings for media or devices	Show or hide taskbar	Mail
Sync your settings	Start or stop using AutoPlay for all media and devices	Set up iSCSI i	Maps
Check for updates	Update device drivers	Media stream	Music
			News

Figure 34: Search and start the Device Manager

- Click on Device Manager.
- ✤ The Device Manager starts.
- 3. Check, whether the Windows[®] Device Manager display shows the correct name for your device.

Example: This example shows the name **cifX Communication Interface** > **cifX PCI/PCIe Device** for the PC card cifX

cifX Communication Interface
 cifX PCI/PCIe Device



3.14 Checking the Driver Installation under Windows 10

When the installation of the cifX Device Driver and the device hardware are complete, check in the Device Manager, whether your netX based device hardware is installed correctly. Do the following steps:

- R Alles auf einen Blick Spiele und mehr 閫 (0) Mail ¢ Calendar e Muci Movies & TV e $\overline{}$ O Microsoft Edg Sonniq 15° d__ Recently added Berlin Phone Com A OneDrive N \square File Explore Skype vid eNot 🔅 Settings () Power 三 All apps I'm Cortana. Ask me anything. []] е 3
- 1. Open Windows® 10 Start Screen.

Figure 35: Startbildschirm Windows 10

- 2. Search and start the Device Manager.
- Select Settings.
- Enter Device Manager into the search field.



Figure 36: Search and start the Device Manager

Click on Device Manager.

- [₽] The Device Manager starts.
- 3. Check, whether the Windows[®] Device Manager display shows the correct name for your device.

Example: This example shows the name **cifX Communication Interface** > **cifX PCI/PCIe Device** for the PC card cifX

cifX Communication Interface
 cifX PCI/PCIe Device



3.15 Uninstalling under Windows XP

Requirement



Note: You need administrator privileges Windows[®] XP to uninstall the cifX Device Driver software from your PC.

Steps for Uninstalling

To uninstall the cifX Device Driver proceed as follows:

- 1. Select Start > Settings > Control Panel.
- Select the symbol Add or Remove Program from the list and double click Add or Remove Program.
- The Add or Remove Program pane is displayed.

🐻 Add or Re	nove Programs				X
5	Currently installed programs:	Show up <u>d</u> ates	Sort by: Name		*
Change or Remove	🛌 cifX Device Driver (x86) 1.3.0.0		Size	<u>5,32 MB</u>	^
Programs	Click here for support information.		Used	<u>rarely</u>	
			Last Used On		
Add New	To remove this program from your computer, click Remo	ove.		Remove	
Programs	۲		Size	205.00MB	
F	24		Size	29.63MB	
Add/Remove	17		Size	0.88MB	=
<u>W</u> indows Components	5		Size	98.56MB	
	聞 Entries from other 電	programs	Size	3.83MB	
Set Program Access and					
Defaults			Size	18.86MB	
	R. C.		Size	13.16MB	
	15		Size	185.00MB	
	15		Size	6.30MB	
	15		Size	169.00MB	
	13		Size	37.52MB	*

Figure 37: "Software" Pane

- 2. Click on the cifX Device Driver entry.
- > Click on **Remove**.
- The security message Add or Remove Programs is displayed.



Figure 38:Message "Software"

- Click on Yes.
- ✤ The cifX Device Driver is uninstalled from your PC.

cifX Device Driver (x86) 1.3.0.0
Cancel

Figure 39: cifX Device Driver is uninstalled

3. Restart your PC.

3.16 Uninstalling under Windows 7

Requirements



Note: You need administrator privileges under Windows[®] VISTA and Windows[®] 7 to uninstall the cifX Device Driver software from your PC.

Steps for Uninstalling

To uninstall the cifX Device Driver, proceed as follows:

1. Open Start

 \triangleright



- 2. Search and start the Device Manager.
- > Enter **Device Manager** into the search field.

Control Panel (3)
🚔 Device Manager
low View devices and printers
🚔 Update device drivers
₽ See more results
Device Manager × Shut down +

Figure 40: Control Panel

- Click on Device Manager.
- ✤ The Device Manager starts.
- 3. Uninstall the cifX Device Driver.
- Right click in the Device Manager on the entry of your device.
- Click on **Properties**.



Figure 41: Device Manager (Example for PC card cifX)

₽	Device	Properties >	General is	displaye	ed.
---	--------	--------------	------------	----------	-----

cifX PCI/PCIe Device Properties				
General	Driver Details	Resources		
	cifX PCI/PCIe De	vice		
	Device type:	cifX Communication Interface		
	Manufacturer:	Hilscher GmbH		
	Location:	PCI bus 2, device 2, function 0		
Device status This device is working properly.				
			Ŧ	
OK Cancel				

Figure 42: Device Properties > General (Example for PC card cifX)

- Select the Driver tab.
- ✤ ... Device Properties > Driver is displayed.

cifX PCI/PCIe Device Properties			
General Driver Details	Resources		
cifX PCI/PCIe [Device		
Driver Provider:	Hilscher GmbH		
Driver Date:	2/18/2016		
Driver Version:	1.3.0.0		
Digital Signer:	Hilscher Gesellschaft fuer Systemautomation mbH		
Driver Details	To view details about the driver files.		
Update Driver	To update the driver software for this device.		
Roll Back Driver	If the device fails after updating the driver, roll back to the previously installed driver.		
<u>D</u> isable	Disables the selected device.		
<u>U</u> ninstall	To uninstall the driver (Advanced).		
	OK Cancel		

Figure 43: Device Properties > Driver(Example for PC card cifX)

- Select Uninstall.
- ⇒ Confirm Device Uninstall is displayed.

Co	nfirm Device Uninstall
4	cifX PCI/PCIe Device
ľ	Naming: You are about to uninstall this device from your system.
	Delete the driver software for this device.
	OK Cancel

Figure 44: Confirm Device Uninstall (Example for PC card cifX)

- > Check Delete the driver software for this device.
- Click **OK**.
- ✤ The cifX Device Driver for this device gets uninstalled.
- 4. Repeat step 1 to 3 for other devices if necessary.

Then uninstall the entry for the cifX Device Driver from the list **Uninstall or change programs**.

5. Open Start



- Click on Start
- 6. Uninstall program.

> Enter **Uninstall a program** into the search field.

₽\$	
Control Panel (7) Curinstall a program Uninstall a padoet Programs and Features Uninstall a program Programs and Features Change or remove a program Manage browser add-ons Preview, delete, or show and hide fonts	
\wp See more results	
uninst × Shut down →	

Figure 45: Control Panel > Uninstall a program

- Click on **Device Manager**.
- ⇒ **Uninstall or change a program** is displayed.

Control Panel +	Programs Programs and Features	← └ ▲ ▲ ◆ Search Programs and Features ♀
Control Panel Home View installed updates Turn Windows features on or off Install a program from the network	Uninstall or change a program To uninstall a program, select it from the list and then Organize Uninstall Repair Name	click Uninstall, Change, or Repair.
	LifX Device Drive Uninstall	Hilscher Gesellschaft fuer Syste
	Repair	1000
	Entries from other prog	grams
	•	•
	Hilscher Gesellschaft fuer Systemautomat	Product version: 1.3.0.0 Size:

Figure 46: Uninstall or change a program > Uninstall

- 7. Uninstalling cifX Device Driver.
- Rightclick on the cifX Device Driver entry.
- Click on **Uninstall**.
- ♣ The **Programs and Features** is displayed.



Figure 47: Programs and Features

- Click on Yes.
- ✤ The cifX Device Driver is uninstalled from your PC.

Windows Installer	
Preparing to remove	
	Cancel

Figure 48: Windows Installer



Figure 49: Unistalling cifX Device Driver

✤ The cifX Device Driver pane is closed and the uninstall procedure is completed.

3.17 Uninstalling under Windows 8

Requirements



Note: You need administrator privileges under Windows[®] 8 to uninstall the cifX Device Driver software from your PC.

Steps for Uninstalling

To uninstall the cifX Device Driver, proceed as follows:

1. Open Windows[®] 8 Start Screen.



Figure 50: Start Screen Windows 8

- 2. Search and start the Device Manager.
- Press the keys [Win] and [F].
- > Select Settings.
- > Enter **Device Manager** into the search field.



Figure 51: Search and start the Device Manager

- Click on Device Manager.
- ✤ The Device Manager starts.
- 3. Uninstall the cifX Device Driver.
- Right click in the Device Manager on the entry of your device.
- > Click on **Properties**.



Figure 52: Device Manager (Example for PC card cifX)

⇒ ... Device Properties > General is displayed.

cifX PCI/PCIe Device Properties					
General	Driver Details	Events Resources			
2	cifX PCI/PCIe D	evice			
	Device type:	cifX Communication Interface			
	Manufacturer:	Hilscher GmbH			
	Location:	PCI bus 4, device 2, function 0			
- Devic	e status device is working	properly.	< >		
		OK	Cance	4	

Figure 53: Device Properties > General (Example for PC card cifX)

- Select the **Driver** tab.
- → ... Device Properties > Driver is displayed.

cifX PC	CI/PCIe Device Properties		
General Driver Details	Events Resources		
cifX PCI/PCIe [Device		
Driver Provider:	Hilscher GmbH		
Driver Date:	2/18/2016		
Driver Version:	1.3.0.0		
Digital Signer: Hilscher Gesellschaft fuer Systemautomation mbH			
Driver Details	To view details about the driver files.		
U <u>p</u> date Driver	To update the driver software for this device.		
<u>R</u> oll Back Driver	If the device fails after updating the driver, roll back to the previously installed driver.		
<u>D</u> isable	Disables the selected device.		
<u>U</u> ninstall	To uninstall the driver (Advanced).		
	OK Cancel		

Figure 54: Device Properties > Driver (Example for PC card cifX)

- Select Uninstall.
- ⇒ Confirm Device Uninstall is displayed.

Confirm Device Uninstall
cifX PCI/PCle Device
Warning: You are about to uninstall this device from your system.
Delete the driver software for this device.
OK Cancel

Figure 55: Confirm Device Uninstall (Example for PC card cifX)

- > Check Delete the driver software for this device.
- Click OK.
- ✤ The cifX Device Driver for this device gets uninstalled.
- 4. Repeat step 1 to 3 for other devices if necessary.

Then uninstall the entry for the cifX Device Driver from the list **Uninstall or change programs**.

- 5. Open Windows® 8 Start Screen.
- Press the keys [Ctrl] and [ESC].
- 6. Uninstall program.
- Press the keys [Win] and [F].
- > Select Settings.

> Enter **Uninstall a program** into the search field.

	Unin
Consistant a program	Apps
Uninstall a gadget	Settings
Programs and Features	
Change or remove a program	Files
Manage browser add-ons	Finance
Preview, delete, or show and hide fonts	C Internet Explorer
	Mail
	Maps
	G Music
	News

Figure 56: Uninstall a program

Click on Uninstall a program.

⇒ Uninstall or change a program is displayed.

F	Control Panel\All Control Panel Items\Programs	and Features	- • ×
🗲 🔿 🗸 👔 « All Contr	ol Panel Items	✓ C Search Programs and	d Features 🔎
<u>File Edit View T</u> ools <u>H</u> elp			
Control Panel Home View installed updates Turn Windows features on or off	Uninstall or change a program To uninstall a program, select it from the list and then	ı click Uninstall, Change, or Repair.	8 @
		D. L.C. Law	
	Name	Publisher Hilscher Gesellschaft fuer System	Installed On
	Entries from other prog	grams	
	<		>
	Hilscher Gesellschaft fuer Systemautoma	a Product version: 1.3.0.0 Size:	

Figure 57: Uninstall or change a program > Uninstall

- 7. Uninstalling cifX Device Driver.
- Rightclick on the cifX Device Driver entry.
- > Click on Uninstall.
- ✤ The Programs and Features is displayed.



Figure 58: Programs and Features

- Click on Yes.
- ✤ The cifX Device Driver is uninstalled from your PC.

cifX Device Driver (x64) 1.3.0.0					
Preparing to remove	Cancel				

Figure 59: Windows Installer

cifX Device Driver (x64) 1.3.0.0)
Please wait while Windows configures cifX Device [Driver (x64) 1.2.x.x
	Cancel

Figure 60: Unistalling cifX Device Driver

⇒ The cifX Device Driver pane is closed and the uninstall procedure is completed.

3.18 Uninstalling under Windows 10

Requirements



Note: You need administrator privileges under Windows[®] 10 to uninstall the cifX Device Driver software from your PC.

Steps for Uninstalling

To uninstall the cifX Device Driver, proceed as follows:

1. Open Windows[®] 10 Start Screen.



Figure 61: Start Screen Windows 8

- 2. Search and start the Device Manager.
- > Select **Settings**.
- > Enter **Device Manager** into the search field.

Settings		- 0
SEARCH RESULTS	device	
Connected device settings		
Cortana & Search settings		
Enroll in device management (MDM)		
Privacy settings for other devices		
Add a language to this device		
Add or remove devices		
Choose what happens when the device switches tablet mode on or off		
Connect your device to your work or school cloud domain		
Connect your device to your work or school domain		
Disconnect your device from your work or school		
Make Windows more touch-friendly when using your device as a tablet		
Sevices and Printers		
Change device installation settings		
Sevice Manager		
Populate device drivers		
Find and fix problems with devices		

Figure 62: Search and start the Device Manager

- Click on Device Manager.
- ✤ The Device Manager starts.
- 3. Uninstall the cifX Device Driver.
- Right click in the Device Manager on the entry of your device.
- > Click on **Properties**.



Figure 63: Device Manager (Example for PC card cifX)

⇒ ... Device Properties > General is displayed.

cifX PCI/F	PCIe De	vice Prop	erties	2			×
General	Driver	Details	Events	Resource	s		
	cifX PC	CI/PCIe D	evice				
	Device	type:	cifX C	Communicati	ion Interface		
	Manufa	acturer:	Hilsch	ner GmbH			
	Locatio	on:	PCI b	us 2, device	e 0, function 0		
- Devic This	e status device is	working	properly.			^	
						~	
				[ОК	Cancel	

Figure 64: Device Properties > General (Example for PC card cifX)

- Select the **Driver** tab.
- ⇒ ... Device Properties > Driver is displayed.

cifX PCI/PCIe Device Properties				×		
General	Driver	Details	Events	Resources	•	
	cifX PC	I/PCle D	evice			
	Driver I	Provider:	Hilsch	er GmbH		
	Driver [Date:	2/18/	2016		
	Driver \	Version:	1.3.0.	0		
	Digital	Signer:	Hilsch mbH	er Gesellscł	naft fuer System	automation
Drįv	ver Detail	s	To view	details abou	t the driver files	L.
Upd	ate Drive	r	To updat	e the driver	software for this	s device.
<u>R</u> oll	Roll Back Driver If the device fails after updating the driver, roll back to the previously installed driver.			driver, roll er.		
	<u>D</u> isable		Disables the selected device.			
L	<u>J</u> ninstall		To unins	tall the drive	e <mark>r (Advanced)</mark> .	
					ОК	Cancel

Figure 65: Device Properties > Driver (Example for PC card cifX)

- Select Uninstall.
- ✤ Confirm Device Uninstall is displayed.

Confirm	Device Uninstall		×	
	cifX PCI/PCIe Device			
Warning: You are about to uninstall this device from your system.				
✓ Delet	e the driver software for t	this device.		
		ОК	Cancel	

Figure 66: Confirm Device Uninstall (Example for PC card cifX)

- > Check Delete the driver software for this device.
- ➢ Click OK.
- ✤ The cifX Device Driver for this device gets uninstalled.
- 4. Uninstall the cifX Device Driver entry from the Uninstall or change programs list.
- > Select Settings.
- > Enter **Uninstall a program** into the search field.

settings			- 1	
SEARCH	H RESULTS	Progr		_
C Defa	ult app settings			
to Add	or remove programs			
Apps	& features			
Choo	use a default app for each protocol			
Choo	ose a default app for each type of file			
Progr	rams and Features			
G Chan	ige or remove a program			
instal	II a program from the network			
Run p	programs made for previous versions of Windows			
S Feed	back settings			
Allow	v an app through Windows Firewall			
See v	which processes start up automatically when you start lows			
> Turn	Windows features on or off			
01				

Figure 67: Uninstall a program

- > Click on **Uninstall a program**.
- [™] Uninstall or change a program is displayed.

Programs and Features		-	цх
🗧 🔶 🕤 🛧 👩 > Control F	Panel > Programs > Programs and Features	✓ ♂ Search Programs an	d Features 🔎
Control Panel Home	Uninstall or change a program		
View installed updates	To uninstall a program select it from the list and the	an click Uninstall, Change, or Rena	ir.
Turn Windows features on or	to uninstanta program, select it from the list and the	en ellek offinistall, enange, of Kepa	
off	Organize 🕶 Uninstall Repair		:== - ?
nstall a program from the network	Name	Publisher	Installed On
	and the second second	No.	
	cifX Device Driver (x64) 1.3.0.0	Ullashan Carallashaft fuer Syste	e 4/10/2017
		Jninstall	
	, F	lepair	
	and the second second		
		the second second	
	Contraction of the second second		
	and the second se		
	N Uilachan Carallachath fuar Custamaratan	- D I 1200	,
	Hilscher Gesellschaft füer Systemauton	na Product version: 1.3.0.0 Size: 14.6 MB	

Figure 68: Uninstall or change a program > Uninstall cifX Device Driver entry

- Rightclick on the cifX Device Driver entry.
- Click on Uninstall.
- The **Programs and Features request** is displayed.



Figure 69: Programs and Features

- Click on Yes.
- ✤ The cifX Device Driver entry is uninstalled from your PC.

cifX Device Driver (x64) 1.3.0.0
Please wait while Windows configures cifX Device Driver (x64) 1.3.0.0

Figure 70: Unistalling cifX Device Driver

✤ The cifX Device Driver pane is closed and the uninstall procedure is completed.

4 USB Driver

4.1 SystemRequirements

The system requirements listed below are valid for the USB Driver:

- PC with 586-, Pentium[®] processor or higher
- Windows[®] XP, Windows[®] Vista (32-Bit) SP2, Windows[®] 7 (32- and 64-Bit) SP1, Windows[®] 8 (32- and 64-Bit), Windows[®] 10 (32- and 64-Bit)
- Administrator privilege is required during installation
- USB (optional)
- In order to download the product DVD, you need an Internet access.

4.2 Installation Overview

The installation of the USB driver as driver for the diagnosis interface is only required for the PC cards cifX which are equipped with an USB interface

- Compact PCI (CIFX80),
- PCI-104 (CIFX 104C),
- PC/104 (CIFX 104)

and for the PC cards cifX equipped with the assembly interface diagnostic (AIFX-DIAG)

- PCI-104 (CIFX 104C\F) and
- PC/104 (CIFX 104\F).

Install the USB Driver if the USB interface shall be used for diagnosis purposes. The USB driver is required, if SYCON.net or netX Configuration Tool shall be used for diagnosis via the USB interface. For PC cards cifX PC/104 the USB interface can also be used to download the firmware or the configuration.

Note:

- 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 PC card cifX to your PC via USB cable ("software first" principle).



Important: As you can use the USB diagnostic interface of the PC card cifX, you must have completed the firmware download to the PC card cifX. When you connect the PC card cifX to the PC via USB cable, Windows can identify the appropriate USB driver only if a firmware is running on the PC card cifX. Details on how to download the firmware you will find in the online help of your configuration system.

 After installing the USB driver and connecting your PC card cifX via USB cable, check in the Windows Device Manager if the driver has been correctly installed and if Windows recognizes the connected PC card cifX.

4.3 Installation under Windows XP

Requirement

The following steps describe the installation of the USB driver under Windows[®] XP if no USB driver for the PC card cifX is installed.

Installation Steps

- 1. Close all application programs on the system and download the Communication Solutions DVD as a ZIP-file to the local hard disk of your PC and unpack it.
- 2. Double-click the Communication-Solutions.exe file in the root directory of the DVD to open the Autostart menu.
- ✤ The startup screen Communication Solutions is displayed.

	Installation Guide Install SYCON.net Configuration Software	
	Documentation	A DESCRIPTION OF THE PARTY OF T
	Install sit/ unst IACK Device Driver	Cor Marca
		A A A A A A A A A A A A A A A A A A A
P	Install USB SPM Driver	
	Start netHOST for Remote access	
	Install Slave Configuration Software	
	Driver-Toolkit for Programmers	Hilling West
	Auxiliary Tools	
		C. C

Figure 71: Start Screen Communication Solutions - Install USB Driver

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



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

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



Figure 72: Device Driver Installation Wizard – Start Screen

- 3. Start the installation.
- Click Next.
- \Rightarrow The installation of the USB drivers is started.

Device Driver Installation Wizard
The drivers are now installing
Dease wait while the drivers install. This may take some time to complete.
< Back Next > Cancel

Figure 73: Device Driver Installation Wizard – Driver Are Installing

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



Figure 74: 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 PC card cifX to a PC via USB cable for the first time.

> Install all further software components required.

Install the PC card cifX as specified in the user manual and mount the USB cable to the PC card cifX and to an USB port on the PC.



Note: When you connect the PC card cifX to the PC via USB cable, Windows can identify the appropriate USB driver only if a firmware is running on the PC card cifX.

- 4. Complete the installation in the Found New Hardware Wizard.
- ✤ When you have installed the PC card cifX, mounted the USB cable and restarted the PC, the Found New Hardware Wizard starts:



Figure 75: Found New Hardware Wizard – USB Driver (1)

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

Found New Hardware Wiza	ard
	This wizard helps you install software for: Hilscher citX What do you want the wizard to do? () Install the software automatically [Recommended] () Install from a list or specific location (Advanced) Click Next to continue.
	< <u>B</u> ack <u>N</u> ext> Cancel

Figure 76: 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.

Found New Hardware Wizard	
Please wait while the wizard installs th	e software
Hilscher citX	
Ď	 ✓
Setting a system restore poi case your system needs to t	nt and backing up old files in be restored in the future.
	< <u>B</u> ack <u>N</u> ext > Cancel

Figure 77: Found New Hardware Wizard – USB Driver (3)

⇒ The Completing the Found New Hardware Wizard window appears:

Found New Hardware Wiz	ard
	Completing the Found New Hardware Wizard
	The wizard has finished installing the software for:
491	Hilscher citX
	Click Finish to close the wizard.
	< <u>B</u> ack Finish Cancel

Figure 78: Found New Hardware Wizard – USB Driver (4)

- > Click Finish.
- ✤ The installation of the USB driver is now complete.

- 5. Check in the Device Manager if your PC card cifX is installed correctly.
- Open the Windows Device Manager (Desktop symbol My Computer,, right click Properties, window System Properties, tab Hardware, button Device Manager).
- Check if the view of your Device Manager corresponds to the marked area in the view hereafter.



Figure 79: Display of USB Connection in Device Manager

4.4 Installation under Windows 7

Requirement

The following steps describe the installation of the USB driver under Windows[®] 7 if no USB driver for the PC card cifX is installed.

Installation Steps

- 1. Close all application programs on the system and download the Communication Solutions DVD as a ZIP-file to the local hard disk of your PC and unpack it.
- 2. Double-click the Communication-Solutions.exe file in the root directory of the DVD to open the Autostart menu.
- ✤ The startup screen Communication Solutions is displayed.

	Installation Guide Install SYCON.net Configuration Software	and the second second
	Documentation	Carrier
- 1	Drivers, Software and Tools	
	Install cifX / netJACK Device Driver	
►	Install USB Diagnosis Driver	
	Install USB SPM Driver	
	Start netHOST for Remote access	
	Install Slave Configuration Software	
	Driver-Toolkit for Programmers	A A AMANA SEA
	Auxiliary Tools	
		a

Figure 80: Start Screen Communication Solutions – Install USB Driver

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



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

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



Figure 81: Device Driver Installation Wizard – Start Screen

- 3. Start the installation.
- Click Next.
- ✤ The installation of the USB drivers is started.

Device Driver Installation Wizard	
The drivers are now installing	
Please wait while the drivers install. This may take some time to complete.	
< <u>B</u> ack <u>N</u> ext > Cance	el

Figure 82: Device Driver Installation Wizard – Driver Are Installing

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



Figure 83: Device Driver Installation Wizard – Installation Completed

- Solick 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 PC card cifX 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.

- Install all further software components required.
- Install the PC card cifX as specified in the user manual and mount the USB cable to the PC card cifX and to an USB port on the PC.



Note: When you connect the PC card cifX to the PC via USB cable, Windows can identify the appropriate USB driver only if a firmware is running on the PC card cifX.

- 4. Check in the Device Manager if your PC card cifX is installed correctly.
- Open the Windows Device Manager (select Start, enter "Device Manager" to the search field, click on Device Manager).
- Check if the view of your Device Manager corresponds to the marked area in the view hereafter.

🚔 Device Manager	- • •
<u>F</u> ile <u>A</u> ction <u>V</u> iew <u>H</u> elp	
🗢 🔿 📧 🖾 🔽 🖬 😺 🞼 😽 🚱	
⊿ 📲 im01win7	
🔋 👰 CIF Communication Interface	
🔈 🚛 Computer	
Disk drives	
Display adapters	
DVD/CD-ROM drives	
Floppy disk drives	
Floppy drive controllers	
👂 🧤 Human Interface Devices	
IDE ATA/ATAPI controllers	
⊳ · ─── Keyboards	
Mice and other pointing devices	
▷ Monitors	
Network adapters	
Other devices	
▲ Ports (COM & LPT)	
ECP-Druckeranschluss (LP11)	
Hilscher citX (COM3)	
Processors	
Sound, video and game controllers	
Iniversal Serial Rus controllers	

Figure 84: Display of USB Connection in Device Manager

4.5 Installation under Windows 8

Requirement

The following steps describe the installation of the USB driver under Windows[®] 8 if no USB driver for the PC card cifX is installed.

Installation Steps

- 1. Close all application programs on the system and download the Communication Solutions DVD as a ZIP-file to the local hard disk of your PC and unpack it.
- 2. Double-click the Communication-Solutions.exe file in the root directory of the DVD to open the Autostart menu.
- ✤ The startup screen Communication Solutions is displayed.

Documentation Drivers, Software and Tools Install citX / netJACK Device Driver Install USB Diagnosis Driver Install USB SPM Driver Start netHOST for Remote access	
Drivers, Software and Tools Install citX / netJACK Device Driver Install USB Diagnosis Driver Install USB SPM Driver Start netHOST for Remote access	
Install citX / netJACK Device Driver Install USB Diagnosis Driver Install USB SPM Driver Start netHOST for Remote access	
Install USB Diagnosis Driver Install USB SPM Driver Start netHOST for Remote access	
Install USB SPM Driver Start netHOST for Remote access	Rill Martin Martin
Start netHOST for Remote access	A A A A A A A A A A A A A A A A A A A
Install Slave Configuration Software	
Driver-Toolkit for Programmers	with a real
Auxiliary Tools	
	1
	1

Figure 85: Start Screen Communication Solutions – Install USB Driver

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



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

Dev	vice Driver Installation Wizard
0.0.1.1.0.1.0.1	Welcome to the Device Driver Installation Wizard!
12	This wizard helps you install the software drivers that some computers devices need in order to work.
CASILIA CONTRACTOR	
01010010111011001101010	To continue, click Next.
	< Back Next > Cancel

Figure 86: Device Driver Installation Wizard – Start Screen

- 3. Start the installation.
- Click Next.
- \Rightarrow The installation of the USB drivers is started.

Device Driver Installation Wizard
The drivers are now installing
Please wait while the drivers install. This may take some time to complete.
< <u>B</u> ack <u>N</u> ext > Cancel

Figure 87: Device Driver Installation Wizard – Driver Are Installing

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



Figure 88: Device Driver Installation Wizard – Installation Completed

- Solick Finish.
- [№] The installation of the USB driver is completed.
- Note: By completing the **Device Driver Installation Wizard**, the installation process under Windows 8 is practically finished. When you connect the PC card cifX 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.

- Install all further software components required.
- Install the PC card cifX as specified in the user manual and mount the USB cable to the PC card cifX and to an USB port on the PC.



Note: When you connect the PC card cifX to the PC via USB cable, Windows can identify the appropriate USB driver only if a firmware is running on the PC card cifX.

- 4. Check in the Device Manager if your PC card cifX is installed correctly.
- Open the Windows Device Manager (open Windows[®] 8 start screen, press the [Win] and [F] keys, select Settings, enter "Device Manager" to the search field, click on Device Manager).
- Check if the view of your Device Manager corresponds to the marked area in the view hereafter.

- 🖤 Hilscher cifX (COM3)

Figure 89: Display of USB Connection in Device Manager

4.6 Installation under Windows 10

Requirement

The following steps describe the installation of the USB driver under Windows[®] 10 if no USB driver for the PC card cifX is installed.

Installation Steps

- 1. Close all application programs on the system and download the Communication Solutions DVD as a ZIP-file to the local hard disk of your PC and unpack it.
- 2. Double-click the Communication-Solutions.exe file in the root directory of the DVD to open the Autostart menu.
- ✤ The startup screen Communication Solutions is displayed.

Documentation Drivers, Software and Tools Install citX / netJACK Device Driver Install USB Diagnosis Driver Install USB SPM Driver Start netHOST for Remote access	
Drivers, Software and Tools Install citX / netJACK Device Driver Install USB Diagnosis Driver Install USB SPM Driver Start netHOST for Remote access	
Install citX / netJACK Device Driver Install USB Diagnosis Driver Install USB SPM Driver Start netHOST for Remote access	
Install USB Diagnosis Driver Install USB SPM Driver Start netHOST for Remote access	
Install USB SPM Driver Start netHOST for Remote access	Rill Martin Martin
Start netHOST for Remote access	A A A A A A A A A A A A A A A A A A A
Install Slave Configuration Software	
Driver-Toolkit for Programmers	with a real
Auxiliary Tools	
	1
	1

Figure 90: Start Screen Communication Solutions – Install USB Driver

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



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

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



Figure 91: Device Driver Installation Wizard - Start Screen

- 3. Start the installation.
- Click Next.
- If Windows[®] displays during installation a security request, answer it with Install.
- \Rightarrow The installation of the USB drivers is started.
- After installation, the Completing the Device Installation Wizard window appears:



Figure 92: Device Driver Installation Wizard – Installation Completed

✤ Click Finish.

✤ The installation of the USB driver is completed.

 \rightarrow

Note: By completing the **Device Driver Installation Wizard**, the installation process under Windows 10 is practically finished. When you connect the PC card cifX 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 10):



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.

- Install all further software components required.
- Install the PC card cifX as specified in the user manual and mount the USB cable to the PC card cifX and to an USB port on the PC.



Note: When you connect the PC card cifX to the PC via USB cable, Windows can identify the appropriate USB driver only if a firmware is running on the PC card cifX.

- 4. Check in the Device Manager if your PC card cifX is installed correctly.
- Open the Windows Device Manager (open Windows[®] 10 start screen, select Settings, enter "Device Manager" to the search field, click on Device Manager).
- Check if the view of your Device Manager corresponds to the marked area in the view hereafter.

💭 Hilscher cifX (COM3)

Figure 93: Display of USB Connection in Device Manager

4.7 Uninstalling under Windows XP

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

- 1. Open Add or Remove Programs window.
- > In the Start menu of Windows XP, select Control Panel.
- > In the Control Panel, double-click Add or Remove Programs.
- ⇒ The Add or Remove Programs window opens:

🐻 Add or Re	nove Programs			
5	Currently installed programs:	Show up <u>d</u> ates	Sort by: Name	~
Change or Remove	₩		Size	27.75MB
	Entries from other	programs	bize	2.07MD
	MB ^R		Size	335.00MB
Programs			Size	2.16MB
-	2		Size	10.31MB
<u> </u>	13		Size	22.42MB
Add/Remove <u>W</u> indows	3090		Size	0.82MB
Components	Q		Size	3.69MB
			Size	0.16MB
Set Program	í ^j		Size	2.91MB
Access and	N		Size	228.00MB
Deraults	8		Size	7.42MB
	💐 Windows Driver Package - Hilsche	er GmbH (hilusbser) Po	rts (12/21/2012	6.0.9.0)
	<u>Click here for support information.</u>			
	To change this program or remove it fro Change/Remove.	om your computer, click	Chang	e/Remove
	💐 Windows Driver Package - Hilscher Gmb)H (libusb0) libusb-win32 de	evices (12/20/2012	1.2.4.0)
	💐 Windows Driver Package - Hilscher Gmb	H (net×10ser) Ports (10/0	01/2012 6.0.7.0)	~

Figure 94: Add or Remove Programs

- 2. Uninstall driver packages.
- Select Windows Driver Package Hilscher GmbH (hilusbser) Ports entry.
- > Click Change/Remove.
- \Rightarrow A security question appears:



Figure 95: Acknowledge Uninstall

- Click Yes.
- ✤ The USB driver package is removed from your PC.

Repeat this procedure for the remaining driver packages Windows Driver Package – Hilscher GmbH (libusb0) [...] devices and Windows Driver Package – Hilscher GmbH (netx10ser) Ports.

4.8 Uninstalling under Windows 7

If you want to uninstall the USB drivers under Windows 7, proceed as follows:

- 1. Open Uninstall or change a program window.
- Select Start.
- > Enter "Uninstall a program" into the search field.
- > Click on **Uninstall or change a program**.
- ⇒ The Uninstall or change a program window opens:



Figure 96: Uninstall or Change a Program

- 2. 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 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.

4.9 Uninstalling under Windows 8

If you want to uninstall the USB drivers under Windows 8, proceed as follows:

- 1. Open Programs and Features window.
- > Open the Windows[®] 8 start screen.
- Press the [Win] and [F] keys
- > Select Settings.
- > Enter "Uninstall a program" into the search field.
- > Click on **Programs and Features**.
- ✤ The Programs and Features window opens:



Figure 98: Uninstall or Change a Program

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

Uninstall Driver Package	
All devices using this driver will be removed. Do you wish to continue?	
<u>Y</u> es <u>N</u> o	

Figure 99: Acknowledge Uninstall

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

4.10 Uninstalling under Windows 10

If you want to uninstall the USB drivers under Windows 10, proceed as follows:

- 1. Open Programs and Features window.
- > Open the Windows[®] 10 start screen.
- Select Settings.
- Enter "Uninstall a program" into the search field.
- > Click on **Programs and Features**.
- The Uninstall or Change a Program window opens:

USB Driver

82/194

Programs and Features					- 0	×
← → · ↑ 1 of a control P	Panel > Programs > Programs and Features			✓ Ö Searc	h Programs and Features	P
Control Panel Home View installed updates	Uninstall or change a program To uninstall a program, select it from the list and then click Unir	istall, Change, or Repair.				
off	Organize 🔻 Uninstall/Change					?
network	Name 22 Malan Araba (Araba) 24 Antoine Araba (Araba) 25 Malan (Araba) 26 Manandan (Cala) 27 Mananda (Cala) 28 Mananda (Cala) 29 Mananda (Cala) 20 Mananda (Cala) 20 Mananda (Cala)	Publisher Iger Factor Holden Upstern Incorporated Helden Opstechtet New Softwa- Househan Karpensty Leit Hill Kanansia Leit	Installed On	Size	Version	
	 Windows Driver Package - Hilscher GmbH (hilusbser) Ports (0 	History GmbH	4/3/2017	943 MB 1945 MB 211 GB	09/18/2015 6.0.16.0	
	Windows Driver Package - Hilscher GmbH (libusb0) libusb-win Windows Driver Package - Hilscher GmbH (netx10ser) Ports (0	Hilscher GmbH Hilscher GmbH	4/3/2017 4/3/2017	212408 412408 512408 512408	09/18/2014 1.2.10.0 07/15/2013 6.0.9.0	
	Hilscher GmbH Product version: 09/18/2015 6.0.16.0)				

Figure 100: Uninstall or Change a Program

- 2. 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 101: 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.

5.1 System Requirements

The system requirements listed below are valid for the configuration software **SYCON.net for netX**:

In order to download the product DVD, you need an Internet access.

- 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 (optional)
- 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.

5.2 Installation under Windows XP

Requirement



Note: You need administrator privileges under Windows[®] XP to install the configuration software SYCON.net on your PCdevice.

Note: If an older version of SYCON.net is already installed on your system, uninstall it first before you install the new version.

Preparation

To start the installation for the configuration software SYCON.net:

- Close all application programs on the system and download the Communication Solutions DVD as a ZIP-file to the local hard disk of your PC and unpack it.
- 2. Double-click the Communication-Solutions.exe file in the root directory of the DVD to open the Autostart menu.
- [№] The startup screen **Communication Solutions** is displayed.

	Installation Guide	
►	Install SYCON.net Configuration Softwa	are Roman
	Documentation	A DECEMBER AND A DECEMBER

Figure 102: Start the Installation for the SYCON.net Configuration Software

Click on Install SYCON.net Configuration Software.

Or:

- Open on the unzipped Communication Solutions DVD the directory [drive letter]:\Software\SYCONnet\ and start the SYCONnet netX setup.exe file by a double-click.
- [™] The SYCON.net installation setup is started.

Installation Steps

To install the configuration software SYCON.net:

3. Choose language for the setup

Wählen	Sie eine Setup-Sprache aus	X
2	Wählen Sie die Sprache dieser Installation aus der unten aufgeführten Auswahl aus.	
	English (United States)	
	OK Abbrechen	

Figure 103: SYCON.net Setup Language

- Select the language for the setup.
- Click on OK.
- 4. Continue installation
- Click on Next > to continue the installation.



Figure 104: SYCON.net Installation Information

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



Figure 105: Notes about major Changes in SYCON.net

- Read the note about major changes in SYCON.net carefully.
- > Select I read the information, when you have read them.
- Click on Next > to continue the installation.
- 6. Accept license agreement

😸 SYCON. net for netX - InstallShield Wizard	×
License Agreement Please read the following license agreement carefully.	
HILSCHER SOFTWARE LICENSE AGREEMENT	
This document is a legally valid contract between you and Hilscher Gesellschaft für Systemautomation mbH ("Hilscher").	_
Please read through this License Agreement carefully before installing and using the software. By installing the software and using it, whether in whole or in part, you accept all of the provisions of this Agreement.	
If you decline to accept these terms and conditions, please do not install the software. Instead, return it to us or the retailer from which you purchased it for a refund of the purchase price.	
I accept the terms in the license agreement	
O I do not accept the terms in the license agreement	
InstallShield	
< <u>B</u> ack <u>N</u> ext > Cancel	

Figure 106: SYCON.net License Agreement

- Select I accept the terms in the license agreement, when you agree to it.
- Click on Next > to continue the installation.

7. Enter user information

👹 SYCON.net for netX - InstallShield Wizard	
Customer Information	4.
Please enter your information.	
User Name:	
User Nhme	
Organization:	
Organization	
InstallShield	
< <u>B</u> ack Ne	xt > Cancel

Figure 107: SYCON.net Customer Information

- Enter the user name and the name of the organization.
- Click on Next > to continue the installation.

8. Select setup type



Figure 108: SYCON.net Setup Type

- Select Complete when you want to install the complete software.
- Click on Next > to continue the installation.

9. Installation

뤻 SYCON.net for netX - InstallShield Wizard	
Ready to Install the Program The wizard is ready to begin installation.	1
Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cance exit the wizard.	al to
InstallShield	ncel

Figure 109: SYCON.net Start Installation

- Click on **Install** to do the installation now.
- \Rightarrow The components are installed. This will take several minutes.

🛃 SYCON.	net for netX - InstallShield Wizard
Installing The prog	SYCON.net for netX ram features you selected are being installed.
13	Please wait while the InstallShield Wizard installs SYCON.net for netX. This may take several minutes. Status:
InstallShield —	< <u>B</u> ack Next > Cancel

Figure 110: SYCON.net Installation Status

10. Finish installation



Figure 111: SYCON.net Installation Finish

- Click on Finish
- SYCON.net is installed and can be started via Start > System Configurator SYCON.net > SYCON.net.

5.3 Installation under Windows 7

Requirement



Note: You need administrator privileges under Windows[®] 7 to install the configuration software **SYCON.net** on your PCdevice.

Note: If an older version of SYCON.net is already installed on your system, uninstall it first before you install the new version.

Preparation

To start the installation for the configuration software SYCON.net:

- Close all application programs on the system and download the Communication Solutions DVD as a ZIP-file to the local hard disk of your PC and unpack it.
- 2. Double-click the Communication-Solutions.exe file in the root directory of the DVD to open the Autostart menu.
- [™] The startup screen **Communication Solutions** is displayed.

	Installation Guide	
►	Install SYCON.net Configuration Software	
	Documentation	1
		(a) (a)

Figure 112: Start the Installation for the SYCON.net Configuration Software

> Click on Install SYCON.net Configuration Software.

Or:

- Open on the unzipped Communication Solutions DVD the directory [drive letter]:\Software\SYCONnet\ and start the SYCONnet netX setup.exe file by a double-click.
- [₽] The SYCON.net installation setup is started.
- > Answer the Windows[®] security question with **Yes**.

Or

 \rightarrow

Note: Reduce the number of Windows[®] safety questions by running the setup via **Run as Administrator**. You also need administrator rights to uninstall the software.

Right click on the SYCONnet netX setup.exe file and then click Run as Administrator.



Figure 113: SYCONnet netX setup.exe - Run as Administrator

Answer the Windows[®] security question with Yes.

Installation Steps

To install the configuration software SYCON.net:

3. Choose Language for the setup

Choose S	etup Language					
Select the language for this installation from the choices below.						
	Englisch (USA)					
	OK Cancel					

Figure 114: SYCON.net Setup Language

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

Preparing to install screen opens.



Figure 115: Preparing to Install SYCON.net

- 4. Continue installation
- Click on Next > to continue the installation.



Figure 116: SYCON.net Installation Information

影 SYCON.net for netX - InstallShield Wizard х Important Information Please read the followinig information carefully. . Notes about major changes in SYCON.net V1.400 Please read these notes carefully, since they contain important information about major changes in SYCON.net. Concerns gateway devices netTAP NT 151 Gateway devices netTAP NT 151 require SYCON.net version 1.400 (or higher) for configuration I read the information I have not read the information yet InstallShield < <u>B</u>ack Next > Cancel

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

Figure 117: Notes About Major Changes in SYCON.net

- Read the note about major changes in SYCON.net carefully.
- Select I read the information, when you have read them.
- Click on Next > to continue the installation.
- 6. Accept license agreement

B SYCON.net for netX - InstallShield Wizard	×			
License Agreement Please read the following license agreement carefully.	22			
HILSCHER SOFTWARE LICENSE AGREEMENT This document is a legally valid contract between you and Hilscher Gesellschaft für Sustamautomation mbH ("Hilscher")	^			
Please read through this License Agreement carefully before installing and using the software. By installing the software and using it, whether in whole or in part, you accept all of the provisions of this Agreement.				
If you decline to accept these terms and conditions, please do not install the software Instead, return it to us or the retailer from which you purchased it for a refund of the purchase price.				
 I accept the terms in the license agreementi I do not accept the terms in the license agreement 				
InstallShield < <u>Back</u> Next >	Cancel			

Figure 118: SYCON.net License Agreement

- Select I accept the terms in the license agreement, when you agree to it.
- Click on Next > to continue the installation.

	7.	Enter	user	inform	atior
--	----	-------	------	--------	-------

B SYCON.net for netX - InstallShield Wizard	X
Customer Information	4.
Please enter your information.	
<u>U</u> ser Name:	
User Name	
Organization:	
Organization	
InstallShield	
< <u>B</u> ack	Next > Cancel

Figure 119: SYCON.net Customer Information

- > Enter the user name and the name of the organization.
- Click on Next > to continue the installation.
- 8. Select setup type

BYCON.net for	netX - InstallShield Wizard					
Setup Type Choose the setup type that best suits your needs.						
Please select a	setup type.					
© Complete	All program features will be installed. (Requires the most disk space.)					
Custom	Choose which program features you want installed and where they will be installed. Recommended for advanced users.					
InstallShield	< Back Next > Cancel					

Figure 120: SYCON.net Setup Type

- Select **Complete** when you want to install the complete software.
- Click on Next > to continue the installation.

9. Installation

BYCON.net for netX - InstallShield Wizard	J
Ready to Install the Program The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.	
InstallShield Cancel	_

Figure 121: SYCON.net Start Installation

> Click on **Install** to do the installation now.

✤ The components are installed. This will take several minutes.

늻 SYCON.n	et for netX - InstallShield Wizard					
Installing SYCON.net for netX The program features you selected are being installed.						
Please wait while the InstallShield Wizard installs SYCON.net for netX. This may take several minutes.						
	Status:					
	Copying new files					
InstallShield						
u istalistillelu -	< <u>B</u> ack <u>N</u> ext > Cancel					

Figure 122: SYCON.net Installation Status

10. Finish installation

BYCON.net for netX - InstallShield Wizard					
	InstallShield Wizard Completed				
1	The InstallShield Wizard has successfully installed SYCON.net for netX. Click Finish to exit the wizard.				
	< Back Finish Cancel				

Figure 123: SYCON.net Installation Finish

- Click on Finish
- ⇒ SYCON.net is installed and can be started via Start > All Programs > SYCON.net System Configurator > SYCON.net.

5.4 Installation under Windows 8

Requirement



Note: You need administrator privileges under Windows[®] 8 to install the configuration software SYCON.net on your PCdevice.

Note: If an older version of SYCON.net is already installed on your system, uninstall it first before you install the new version.

Preparation

To start the installation for the configuration software SYCON.net:

- Close all application programs on the system and download the Communication Solutions DVD as a ZIP-file to the local hard disk of your PC and unpack it.
- 2. Double-click the Communication-Solutions.exe file in the root directory of the DVD to open the Autostart menu.
- ⇒ The startup screen **Communication Solutions** is displayed.

Communication Solutions
Installation Guide
Install SYCON net Configuration Software
Documentation
Drivers, Software and Tools

Figure 124: Start the Installation for the SYCON.net Configuration Software

Click on Install SYCON.net Configuration Software.

Or:

- Open on the unzipped Communication Solutions DVD the directory [drive letter]:\Software\SYCONnet\ and start the SYCONnet netX setup.exe file by a double-click.
- ✤ The SYCON.net installation setup is started.
- > Answer the Windows[®] security question with **Yes**.

Or

 \rightarrow

Note: Reduce the number of Windows[®] safety questions by running the setup via **Run as Administrator**. You also need administrator rights to uninstall the software.

Right click on the SYCONnet netX setup.exe file and then click Run as Administrator.



Figure 125: SYCONnet netX setup.exe - Run as Administrator

> Answer the Windows[®] security question with **Yes**.

Installation Steps

To install the configuration software SYCON.net:

3. Choose Language for the setup

	Choose Setup Language				
Select the language for this installation from the choices below.					
	English (United States)				
	OK Cancel				

Figure 126: SYCON.net Setup Language

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

[№] **Preparing to install** screen opens.



Figure 127: Preparing to Install SYCON.net

- 4. Continue installation
- Click on Next > to continue the installation.



Figure 128: SYCON.net Installation Information

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



Figure 129: Notes About Major Changes in SYCON.net

- Read the note about major changes in SYCON.net carefully.
- > Select I read the information, when you have read them.
- Click on Next > to continue the installation.
- 6. Accept license agreement

B SYCON.net for netX - InstallShield Wizard						
License Agreement Please read the following license agreement carefully.						
HILSCHER SOFTWARE LICENSE AGREEMENT						
This document is a legally valid contract between you and Hilscher Gesellschaft für Systemautomation mbH ("Hilscher").						
Please read through this License Agreement carefully before installing and using the software. By installing the software and using it, whether in whole or in part, you accept all of the provisions of this Agreement.						
If you decline to accept these terms and conditions, please do not install the software. Instead, return it to us or the retailer from which you purchased it for a refund of the purchase price.						
• accept the terms in the license agreement						
O I do not accept the terms in the license agreement						
InstallShield						
< <u>B</u> ack <u>N</u> ext > Cancel						

Figure 130: SYCON.net License Agreement

- Select I accept the terms in the license agreement, when you agree to it.
- Click on Next > to continue the installation.

7. Enter user information

10	SYCON.net for netX - InstallShi	eld Wizard ×
Customer Info Please enter yo	rmation our information.	
<u>U</u> ser Name:		
Organization:		_
InstallShield	< Back	Next > Cancel

Figure 131: SYCON.net Customer Information

- > Enter the user name and the name of the organization.
- Click on Next > to continue the installation.
- 8. Select setup type

1	SYCON.net for netX - InstallShield Wizard
Setup Type Choose the se	etup type that best suits your needs.
Please select	a setup type.
• Complete	All program features will be installed. (Requires the most disk space.)
○ Cu <u>s</u> tom	Choose which program features you want installed and where they will be installed. Recommended for advanced users.
InstallShield	< <u>B</u> ack <u>N</u> ext > Cancel

Figure 132: SYCON.net Setup Type

- > Select **Complete** when you want to install the complete software.
- Click on Next > to continue the installation.

9. Installation

岁 SYCON.net for netX - InstallShield Wizard	×
Ready to Install the Program The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back. exit the wizard.	Click Cancel to
ToetallShield	
< <u>B</u> ack <u>Install</u>	Cancel

Figure 133: SYCON.net Start Installation

Click on Install to do the installation now.

✤ The components are installed. This will take several minutes.

B	SYCON.net for netX - InstallShield Wizard 🛛 – 🗖 🗙				
Installing The pro <u>c</u>	SYCON.net for netX gram features you selected are being installed.				
P	Please wait while the InstallShield Wizard installs SYCON.net for netX. This may take several minutes.				
	Status: Copying new files				
InstallShield -					
	< <u>B</u> ack <u>N</u> ext > <u>Cancel</u>				

Figure 134: SYCON.net Installation Status

10. Finish installation



Figure 135: SYCON.net Installation Finish

- Click on Finish
- ⇒ SYCON.net is installed and can be started via Start > All Programs > SYCON.net System Configurator > SYCON.net.

5.5 Installation under Windows 10

Requirement



Note: You need administrator privileges under Windows[®] 10 to install the configuration software SYCON.net on your PCdevice.

Note: If an older version of SYCON.net is already installed on your system, uninstall it first before you install the new version.

Preparation

To start the installation for the configuration software SYCON.net:

- Close all application programs on the system and download the Communication Solutions DVD as a ZIP-file to the local hard disk of your PC and unpack it.
- 2. Double-click the Communication-Solutions.exe file in the root directory of the DVD to open the Autostart menu.
- [™] The startup screen **Communication Solutions** is displayed.

	Communication Solutions	0110101
	Installation Guide	
⊳	Install SYCON net Configuration Software	
	Documentation	1
	Drivers, Software and Tools	

Figure 136: Start the Installation for the SYCON.net Configuration Software

> Click on Install SYCON.net Configuration Software.

Or:

- Open on the unzipped Communication Solutions DVD the directory [drive letter]:\Software\SYCONnet\ and start the SYCONnet netX setup.exe file by a double-click.
- ✤ The SYCON.net installation setup is started.
- > Answer the Windows[®] security question with **Yes**.

Or

ta:

>

Note: Reduce the number of Windows[®] safety questions by running the setup via **Run as Administrator**. You also need administrator rights to uninstall the software.

Right click on the SYCONnet netX setup.exe file and then click Run as Administrator.

DotNetFX40		4/10/2017 9:15 AM	File folder	
SYCON.net		4/10/2017 9:15 AM	File folder	
SYCONnet n	- VI	10/C/201C 2 27 DM	A P P	
	Open			
	💡 Run as administra	tor		
	Troubleshoot con	npatibility		
	Pin to Start			
	7-Zip			\rightarrow
	CRC SHA			\rightarrow
	Führen Sie die Üb	erprüfung mit Windows Defe	nder durch	
	Auf Marson			
	Auf viren untersu	cnen		
	In die Quarantäne	verschieben		
	Pin to taskbar			
	Restore previous	versions		
	Send to			>
	Cut			
	Сору			
	Create shortcut			
	Delete			
	Rename			
	Properties			



> Answer the Windows[®] security question with **Yes**.

Installation Steps

To install the configuration software SYCON.net:

3. Choose Language for the setup

Choose	Setup Language	×
Z	Select the language for this installation from the choices below	
	English (United States) \sim	
	OK Abbrechen	

Figure 138: SYCON.net Setup Language

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





Figure 139: Preparing to Install SYCON.net

- 4. Continue installation
- Click on Next > to continue the installation.



Figure 140: SYCON.net Installation Information

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



Figure 141: Notes About Major Changes in SYCON.net

- Read the note about major changes in SYCON.net carefully.
- Select I read the information, when you have read them.
- Click on Next > to continue the installation.
- 6. Accept license agreement



Figure 142: SYCON.net License Agreement

- Select I accept the terms in the license agreement, when you agree to it.
- Click on Next > to continue the installation.

7.	Enter	user	inform	nation

影 SYCON.net for netX - InstallShield W	'izard		×
Customer Information			
Please enter your information.			
<u>U</u> ser Name:			
1			
Organization:			
InstallShield			
	< <u>B</u> ack	<u>N</u> ext >	Cancel

Figure 143: SYCON.net Customer Information

- > Enter the user name and the name of the organization.
- Click on Next > to continue the installation.
- 8. Select setup type

늻 SYCON.net for	netX - InstallShield Wizard	×
Setup Type Choose the set	up type that best suits your needs.	
Please select a	setup type.	
• <u>Complete</u>	All program features will be installed. (Requires the most disk space.)	
Cu <u>s</u> tom	Choose which program features you want installed and where they will be installed. Recommended for advanced users.	
InstallShield	< <u>B</u> ack Install Cancel	

Figure 144: SYCON.net Setup Type

- Select **Complete** when you want to install the complete software.
- > Click on **Next** > to continue the installation.
9. Installation

BYCON.net for netX - InstallShield Wizard	X
Ready to Install the Program	4
The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your in exit the wizard.	stallation settings, click Back. Click Cancel to
InstallShield	Provide the second secon
<	Eack Install Cancel

Figure 145: SYCON.net Start Installation

> Click on **Install** to do the installation now.

[™] The components are installed. This will take several minutes.



Figure 146: SYCON.net Installation Status

10. Finish installation

BYCON.net for netX - Install	Shield Wizard X
	InstallShield Wizard Completed
4	The InstallShield Wizard has successfully installed SYCON.net for netX. Click Finish to exit the wizard.
	< Back Finish Cancel

Figure 147: SYCON.net Installation Finish

- Click on Finish
- SYCON.net is installed and can be started via Start > All Programs > SYCON.net System Configurator > SYCON.net.

5.6 Uninstalling under Windows XP

Requirements



Note: You need administrator privileges under Windows[®] XP to uninstall the configuration software SYCON.net from your PCdevice.

Preparation

In order to uninstall the configuration software SYCON.net:

Close all application programs.



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

Steps for Uninstalling

1. First start the control panel of Microsoft Windows XP®.



Figure 148: Windows Control Panel - Add or Remove Programs

- > Double click on Add or Remove Programs in order to open the list.
- The window **Add or Remove Programs** for changing and removing Windows programs opens.

🐻 Add or Re	move Programs				
5	Currently installed programs:	Show up <u>d</u> ates	Sort by: Name		*
Change or	177 		5100	0120110	~
Programs	15		Size	6.68MB	
	1 <mark>6</mark>		Size	10.20MB	
	۲		Size	27.75MB	
Add <u>N</u> ew Programs	MB ^{al}		Size	335.00MB	
riogramo	Fntries from other proc	irams	Size	2.16MB	
		, and	Size	1.69MB	
Add/Remove	15		Size	0.20MB	
Components	Æ		Size	10.31MB	
	13		Size	10.13MB	
	a		Size	3.69MB	
Set Program Access and			Size	0.16MB	
Defaults	SYCON.net for netX		Size	244.00MB	
	Click here for support information.		Used	<u>rarely</u>	
	To change this program or remove it from your computer, click	k Change or Remove.	Change	Remove	
	X		Size	7.42MB	
	i号				
			Size	0.55MB	~

Figure 149: Windows – Add or Remove Programs

- > Now search for the entry for **SYCON.net**.
- Click on Remove > to start the uninstalling.
- At first, a confirmation dialog appears:

Add or l	Remove Programs 🛛 🕅
2	Are you sure you want to remove SYCON.net for netX from your computer?
	Yes No

Figure 150: SYCON.net Confirmation Dialog

- Click on Yes in order to perform the uninstalling.
- ✤ Now SYCON.net is being uninstalled. This may take some minutes.

SYCON.net for netX
Please wait while Windows configures SYCON.net for netX
Gathering required information
Cancel

Figure 151: SYCON.net Uninstalling Progress

Nait until SYCON.net has been uninstalled and thus been removed from the PCdevice.

5.7 Uninstalling under Windows 7

Requirements



Note: You need administrator privileges under Windows[®] 7 to uninstall the configuration software SYCON.net from your PCdevice.

Preparation

In order to uninstall the configuration software SYCON.net:

Close all application programs.



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

Steps for Uninstalling

1. Open Start



Figure 152: Start > Control Panel

Click on Control Panel.



⇒ The window Adjust your computer's settings is displayed.

Figure 153: Window Adjust your Computer's Settings

- 2. Click on Uninstall program.
- ⇒ The window Uninstall or change programs is displayed.



Figure 154: Control Panel - Uninstall or Change Programs

- 3. Uninstalling SYCON.net.
- > Now search for the entry for **SYCON.net**.
- Right click on SYCON.net for netX.
- In the context menu click on Uninstall to start the uninstalling.
- At first, a confirmation dialog appears:



Figure 155: Programs and Features

- Click on Yes in order to perform the uninstalling.
- ✤ Preparing to remove:

Windows Installer	
Preparing to remove	
	Cancel

Figure 156: Windows Installer - Preparing to Remove

- A Windows[®] safety questions appears.
- > Answer the Windows[®] security question with **Yes**.
- ✤ Now SYCON.net is being uninstalled. This may take some minutes.



Figure 157: SYCON.net Uninstalling Progress

✤ Wait until SYCON.net has been uninstalled and thus been removed from the PCdevice.

5.8 Uninstalling under Windows 8

Requirements



Note: You need administrator privileges under Windows[®] 7 to uninstall the configuration software SYCON.net from your PC device.

Preparation

In order to uninstall the configuration software SYCON.net:

Close all application programs.



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

Steps for Uninstalling

- 1. Open Windows[®] 8 Start Screen.
- Press the keys [Ctrl] and [ESC].



Figure 158: Start Screen Windows 8

- Press the keys [Win] and [F].
- Select **Settings**.
- > Enter Uninstall a program into the search field.



Figure 159: Uninstall a program

- 2. Click on Uninstall program.
- ♣ The window Uninstall or change programs is displayed.

	Programs and Features						
۲	🕘 🚽 🛧 📷 🕨 Control P	anel	✓ C Search Programs and F	eatures	P		
	Control Panel Home Uninstall or change a program						
0	Turn Windows features on or	To uninstall a program, select it from the list a	ind then click Uninstall, Change, of Kep	oair.			
Ŭ	off	Organize 🕶 Uninstall Change Repair		-	(?)		
	Install a program from the network	Name	Publisher	Installed	l On	s	
		System Requirements Lab for Intel	Husdawg, LLC			Т	
		SYCON.net for netX					
		Ca Change					
		A Repair					
		Entries from other program	ns				
		٢				>	
		Hilscher GmbH Product version: Help link:	http://www.hilscher.com				

Figure 160: Control Panel - Uninstall or Change Programs

- 3. Uninstalling SYCON.net.
- > Now search for the entry for **SYCON.net**.
- Right click on SYCON.net for netX.
- In the context menu click on Uninstall to start the uninstalling.
- At first, a confirmation dialog appears:



Figure 161: Programs and Features

- Click on Yes in order to perform the uninstalling.
- ✤ Preparing to remove:

SYCON.net for netX
Preparing to remove
Cancel

Figure 162: Windows Installer - Preparing to Remove

- A Windows[®] safety questions appears.
- > Answer the Windows[®] security question with **Yes**.

✤ Now SYCON.net is being uninstalled. This may take some minutes.



Figure 163: SYCON.net Uninstalling Progress

✤ Wait until SYCON.net has been uninstalled and thus been removed from the PCdevice.

5.9 Uninstalling under Windows 10

Requirements



Note: You need administrator privileges under Windows[®] 10 to uninstall the configuration software SYCON.net from your PC device.

Preparation

In order to uninstall the configuration software SYCON.net:

Close all application programs.



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

Steps for Uninstalling

1. Open Windows® 10 Start Screen.

8		Alles auf einen Blicl	k		Spiele und mehr		
Most used		Calendar	We spea	ik Yahoo	£3.	Groove Music	Movies & TV
-		C Microsoft Edge	Photos	O	89		192
Recently added		Sonnig 15° ^{19°} 6°			竇		
OneDrive		Berlin	Phone Compa	1	0	Z	1
ᇑ File Explorer 한 Settings		Store	Skype video			OneNote	Get Office
() Power							
記 All apps							
I'm Cortana. Ask me an	ything.		() ()	ø		

Figure 164: Start Screen Windows 10

- > Select Settings.
- > Enter **Uninstall a program** into the search field.

SYCON.net

120/194

-	-				
←	S	ettings		-	×
ঞ	S	EARCH RESULTS	Progr		×
٤	ŝ	Default app settings			
Ę	ŝ	Add or remove programs			
Ę	ŝ	Apps & features			
Ę	ŝ	Choose a default app for each protocol			
ş	ŝ	Choose a default app for each type of file			
I	ল	Programs and Features			
	ন্থ	Change or remove a program			
	ল	Install a program from the network			
I	ল	Run programs made for previous versions of Windows			
٤	ŝ	Feedback settings			
	2	Allow an app through Windows Firewall			
4	9	See which processes start up automatically when you start Windows			
I	ল	Turn Windows features on or off			

Figure 165: Uninstall a program

2. Click on Uninstall program.



Programs and Features					— C]	Х
← → × ↑ ፬ → Control P	anel > Programs > Programs and Features			v Č Se	earch Programs and Feat	ures	P
Control Panel Home View installed updates 👽 Turn Windows features on or	Uninstall or change a program To uninstall a program, select it from the list and the	en click Uninstall, Change, or Repair.					
off	Organize 🔻 Uninstall Change Repair				= = = = = =	•	?
Install a program from the network	Name	Publisher	Installed On	Size	Version		
	 Filip Triticianii Induite Arabia Hander TC - Endenit Respondy Despiration Results, TRiticiani Hyperi Respondy Despiration Results, TRiticiani Hyperi Respiration Results, Triticiani Hyperi Induite Stackas Clinit phil sej Filadite Maintenance Results Filadity Philip Maintenance Results Filadity Maintenance Results Filadity Maintenance Results Filadity Philip Maintenance Results 	igan Bastar Adalah Upitanan incarporatad Mittime Heinitechtif fein Belten Daumster Karpendipfich Miccosoft Corporation Heinite Heinite Histopine Belter Corporation Heinigene Bester Corporation Heinigene Bester Corporation	L/10/0877 4/30/2977 4/30/2977 4/30/2017 5/30/2017 5/30/2017 4/3/2017 5/30/2017 5/30/2017 5/30/2017 5/30/2017 5/30/2017	4.13 68 41,3 68 102 68 203 68 203 68 204 88 204 88	11.10 1.000 1.0005 1.0005 1.0005 1.0007 1		
	Hilscher GmbH Product version: 1.400. Help link: http://	Support link: www.hilscher.c Update information:	http://www.h	ilscher.c Size: ilscher.c	337 MB		
	- PVI						

Figure 166: Control Panel - Uninstall or Change Programs

- 3. Uninstalling SYCON.net.
- > Now search for the entry for **SYCON.net**.
- Right click on SYCON.net for netX.
- In the context menu click on Uninstall to start the uninstalling.
- ✤ At first, a confirmation dialog appears:



Figure 167: Programs and Features

- Click on Yes in order to perform the uninstalling.
- ✤ Preparing to remove:

SYCON.net for netX	
Preparing to remove	
	Cancel

Figure 168: Windows Installer - Preparing to Remove

- A Windows[®] safety questions appears.
- > Answer the Windows[®] security question with **Yes**.
- ✤ Now SYCON.net is being uninstalled. This may take some minutes.



Figure 169: SYCON.net Uninstalling Progress

✤ Wait until SYCON.net has been uninstalled and thus been removed from the PCdevice.

6 netX Configuration Tool

6.1 System Requirements

The system requirements listed below are valid for the Slave configuration tool **netX Configuration Tool**:

- PC with 586-, Pentium[®] processor or higher
- Windows[®] XP, Windows[®] Vista (32-Bit) SP2, Windows[®] 7 (32- and 64-Bit) SP1, Windows[®] 8 (32- and 64-Bit), Windows[®] 10 (32- and 64-Bit)
- Administrator privilege required for installation
- Free space on hard disk: 50 MByte
- USB (optional)
- RAM: min. 256 MByte
- Graphics resolution: min 1024 x 768 pixels
- Keyboard and mouse
- In order to download the product DVD, you need an Internet access.

6.2 Online Help

The netX Configuration Tool contains an integrated online help facility.



A description of the user interface of the configuration program netX Configuration Tool and for configuration and diagnosis of Slave devices cifX, comX and netJACK using this tool, see the Operating Instruction Manual netX Configuration Tool, Configuration of Hilscher netX based Slave Devices (available as online help in netX Configuration Tool)

To open the online help in netX Configuration Tool, click on Help or press the F1 key.

6.3 Installation under Windows XP

Requirement

First install the cifX Device Driver and then start the netX Configuration Tool setup program.



Note: You need administrator privileges under Windows[®] XP to install the Slave configuration tool netX Configuration Tool on your PC.

Note: If an older version of netX Configuration Tool is already installed on your system, uninstall it first before you install the new version.

Preparation

- 1. Close all application programs on the system and download the Communication Solutions DVD as a ZIP-file to the local hard disk of your PC and unpack it.
- 2. Double-click the Communication-Solutions.exe file in the root directory of the DVD to open the Autostart menu.
- ♣ The startup screen **Communication Solutions** is displayed.



Figure 170: Start the Installation for the Slave Configuration Tool netX Configuration Tool

Click on Drivers, Software and Tools > Install Slave Configuration Software.

Or:

- Open on the Communication Solutions DVD the directory [drive letter]:\Tools\Slave Configuration Tool\ and start the netXConfigurationUtility_Setup.exe file by a double click.
- ✤ The netX Configuration Tool installation setup is started.



Figure 171: netX Setup and Configuration

Installation Steps

- 3. netX Configuration Tool Setup Wizard
- ♣ The **netX Configuration Tool Setup Wizard** is displayed.

🕫 netX Configuration Tool V1.x
Welcome to the netX Configuration Tool V1.x Setup Wizard
The installer will guide you through the steps required to install netX Configuration Tool V1.x on your computer.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel < Back Next>

Figure 172: netX Configuration Tool Setup Wizard

Click on Next.

- 4. Select Installation Folder
- ⇒ Select Installation Folder is displayed.

🕏 netX Configuration Tool V1.x
Select Installation Folder
The installer will install netX Configuration Tool $\forall 1.x$ to the following folder.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Eolder: C\Programme\Hilscher GmbH\netX Configuration Tool V1.x \ Browse Disk Cost
Install netX Configuration Tool $\forall 1.x$ for yourself, or for anyone who uses this computer:
⊙ Everyone
O Just <u>m</u> e
Cancel < Back Next>

Figure 173: netX Configuration Tool Setup Wizard

- Click on Next, to install the folder indicated under Folder.
 Or:
- To install a different folder, enter under Folder a different folder and click on Next.

Or:

- > To install a different folder, click on **Browse**.
- ✤ Browse for Folder is displayed.

r Folder 🛛 🔀
netX Configuration Tool V1.x
C\Programme\Hilscher GmbH\netX Configuration Tool V1.x \
OK Cancel

Figure 174: Browse for Folder

Select a folder and click on **OK**.

- 5. Check Disk Space
- Click on **Disk Cost**, to check which drive provides the required space for the installation.

d netX Configura	tion Tool V1.x	Disk Space	×
The list below includes th each drive's available ar	to, along with		
Volume	Disk Size	Available	Required 🔼
(A:	0KB	0KB	0KB
C:	58GB	42GB	28MB 🗧
D:	68GB	45GB	OKB
I III E:	100GB	17GB	ОКВ 📃
, ₽F:	40GB	11GB	0KB
🖵 🖵 G:	90GB	11GB	0KB
_ ⊋ H:	80GB	20GB	0KB
Q 1:	40GB	2473MB	OKB 🥁
	100CB	10CB	
<			2
			ОК

Figure 175: Disk Space

- Check the disk space of the drives and close the **Disk Space** window via **OK**.
- 6. Starting Installation

🕏 netX Configuration Tool V	1.x		
Confirm Installation			hilscher Estimation
The installer is ready to install netX Config Click "Next" to start the installation.	guration Tool ∨1.x	on your computer.	
	Cancel	< <u>B</u> ack	<u>N</u> ext >

Figure 176: Confirm Installation

- Click on Next, to start the installation.
- 7. Installation Progress
- [™] netX Configuration Tool is being installed.



Figure 177: netX Configuration Tool - Installation Progress

- > Wait until the installation has been completed.
- 8. Installation Complete
- ✤ The netX Configuration Tool installation is complete.

🕏 netX Configuration	Tool V1.x	
Installation Complet	le	
netX Configuration Tool V1.x Click "Close" to exit.	has been successfully installed.	
	Cancel	< Back Close

Figure 178: netX Configuration Tool - Installation complete

- > Click on **Close**, to finish the installation.
- ♣ netX Configuration Tool is installed and can be started via Start > Programs > Hilscher GmbH > netX Configuration Tool.

6.4 Installation under Windows 7

Requirement

First install the cifX Device Driver and then start the netX Configuration Tool setup program.



Note: You need administrator privileges under Windows[®] 7 to install the Slave configuration tool netX Configuration Tool on your PC.

Note: If an older version of netX Configuration Tool is already installed on your system, uninstall it first before you install the new version.

Preparation

- Close all application programs on the system and download the Communication Solutions DVD as a ZIP-file to the local hard disk of your PC and unpack it.
- 2. Double-click the Communication-Solutions.exe file in the root directory of the DVD to open the Autostart menu.
- ♣ The startup screen **Communication Solutions** is displayed.



Figure 179: Start the Installation for the Slave Configuration Tool netX Configuration Tool

Click on Drivers, Software and Tools > Install Slave Configuration Software.

Or:

Open on the Communication Solutions DVD the directory [drive letter]:\Tools\Slave Configuration Tool\ and start the netXConfigurationUtility_Setup.exe file by a double-click.



Note: Reduce the number of Windows[®] safety questions by running the setup via **Run as Administrator**. You also need administrator rights to uninstall the software.

Right click on the SYCONnet netX setup.exe file and then click on Run as Administrator.



Figure 180: SYCONnet netX setup.exe - Run as Administrator

- > Answer the Windows[®] security question with **Yes**.
- ✤ The netX Configuration Tool installation setup is started.



Figure 181: netX Setup and Configuration

Installation Steps

- 3. netX Configuration Tool Setup Wizard
- The **netX Configuration Tool Setup Wizard** is displayed.

Welcome to the net? Setup Wizard	< Configuration ⁻	Fool V1.x	Ische MPETENCE
The installer will guide you through your computer.) the steps required to instal	netX Configuration Tool V1	.x on

Figure 182: netX Configuration Tool Setup Wizard

- Click on Next.
- 4. Select Installation Folder
- Select Installation Folder is displayed.



Figure 183: netX Configuration Tool Setup Wizard

Click on Next, to install the folder indicated under Folder.

Or:

To install a different folder, enter under Folder a different folder and click on Next.

Or:

- > To install a different folder, click on **Browse**.
- >> Browse for Folder is displayed.



Figure 184: Browse for Folder

- Select a folder and click on OK.
- > Answer the Windows[®] security question with **Yes**.
- 5. Check Disk Space
- Click on **Disk Cost**, to check which drive provides the required space for the installation.

H netX Configuration Tool V1.x Disk Space					
The list below includes each drive's available a	the drives you can install netX C and required disk space.	Configuration Tool V1.3	K to, along with		
Volume	Disk Size	Available	Required		
(A:	OKB	0KB	0KB		
O C:	292GB	265GB	28MB		
D:	292GB	285GB	OKB		
•	m		4		
			ОК		

Figure 185: Disk Space

Check the disk space of the drives and close the **Disk Space** window via **OK**.

Confirm Installation

The installer is ready to install netX Configuration Tool V1.x

Output

6. Starting Installation



- > Click on **Next**, to start the installation.
- 7. Installation Progress
- ✤ netX Configuration Tool is being installed.

netX Configuration Tool \	/1.x 000	
Installing netX Co V1.x	nfiguration Tool	Companyed and a sector
netX Configuration Tool V1.x	is being installed.	
Please wait		
	Cancel	< <u>B</u> ack <u>N</u> ext >

Cancel

< <u>B</u>ack

<u>N</u>ext >

Figure 187: netX Configuration Tool - Installation Progress

Wait until the installation has been completed.

- 8. Installation Complete
- ✤ The netX Configuration Tool installation is complete.

netX Configuration Tool V	1.x	
Installation Comple	ete	
netX Configuration Tool V1.x Click "Close" to exit.	has been successfully installed.	
	Cancel < Ba	ck Close

Figure 188: netX Configuration Tool - Installation complete

- Click on **Close**, to finish the installation.
- NetX Configuration Tool is installed and can be started via Start > All Programs > Hilscher GmbH > netX Configuration Tool.

6.5 Installation under Windows 8

Requirement

First install the cifX Device Driver and then start the netX Configuration Tool setup program.



Note: You need administrator privileges under Windows[®] 8 to install the Slave configuration tool netX Configuration Tool on your PC.

Note: If an older version of netX Configuration Tool is already installed on your system, uninstall it first before you install the new version.

Preparation

- Close all application programs on the system and download the Communication Solutions DVD as a ZIP-file to the local hard disk of your PC and unpack it.
- 2. Double-click the Communication-Solutions.exe file in the root directory of the DVD to open the Autostart menu.
- ✤ The startup screen Communication Solutions is displayed.

SYCON.net Configuration Software				A Side
				L ROMAN
entation		1555	. 157.	Carlo and and and
Software and Loois		1	alle	
II CITA / THEDACK Device Driver		all.	11411	100
II USB Diagnosis Driver		(Alle	Adding the	
notuceT for Remote access		AREA		
Il Slove Configuration Software				
r Stave Configuration Soltware		(Lease		with a way
ion Toole				
aly rools				A CONTRACTOR
				0
	Software and Tools II clfX / neUACK Device Driver II USB Diagnosis Driver II USB SPM Driver netHOST for Remote access II Slave Configuration Software r-Toolkit for Programmers ary Tools	Software and Tools II clfX / netJACK Device Driver II USB Diagnosis Driver II USB SPM Driver netHOST for Remote access II Slave Configuration Software r-Toolkit for Programmers ary Tools	Software and Tools II clfX / netJACK Device Driver II USB Diagnosis Driver II USB SPM Driver netHOST for Remote access II Slave Configuration Software r-Toolkit for Programmers any Tools	Software and Tools II clfX / netJACK Device Driver II USB Diagnosis Driver II USB SPM Driver netHOST for Remote access II Slave Configuration Software r-Toolkit for Programmers any Tools

Figure 189: Start the Installation for the Slave Configuration Tool netX Configuration Tool

Click on Drivers, Software and Tools > Install Slave Configuration Software.

Or:

Open on the Communication Solutions DVD the directory [drive letter]:\Tools\Slave Configuration Tool\ and start the netXConfigurationUtility_Setup.exe file by a double-click.



Note: Reduce the number of Windows[®] safety questions by running the setup via **Run as Administrator**. You also need administrator rights to uninstall the software.

Right click on the SYCONnet netX setup.exe file and then click on Run as Administrator.



Figure 190: SYCONnet netX setup.exe - Run as Administrator

- > Answer the Windows[®] security question with **Yes**.
- ✤ The netX Configuration Tool installation setup is started.



Figure 191: netX Setup and Configuration

Installation Steps

- 3. netX Configuration Tool Setup Wizard
- The **netX Configuration Tool Setup Wizard** is displayed.

₿	netX Configuration Tool V1.x		×
Welcome to Setup Wiza	o the netX Configuration Tool V1.× ard	COMPACT NO.	Cher TENCE IN NICATION
The installer will gu your computer.	uide you through the steps required to install netX Configuration	Tool∨1.x o	n
WARNING: This o Unauthorized dupl or criminal penaltie	computer program is protected by copyright law and international lication or distribution of this program, or any portion of it, may res as, and will be prosecuted to the maximum extent possible under	l treaties. sult in severe the law.	: civil
	Cancel < Back	Next	>

Figure 192: netX Configuration Tool Setup Wizard

- Click on Next.
- 4. Select Installation Folder
- Select Installation Folder is displayed.



Figure 193: netX Configuration Tool Setup Wizard

Click on **Next**, to install the folder indicated under **Folder**.

Or:

To install a different folder, enter under Folder a different folder and click on Next.

Or:

- > To install a different folder, click on **Browse**.
- [№] Browse for Folder is displayed.



Figure 194: Browse for Folder

- Select a folder and click on OK.
- > Answer the Windows[®] security question with **Yes**.
- 5. Check Disk Space
- Click on **Disk Cost**, to check which drive provides the required space for the installation.

ë	netX Configu	ration Tool V1	.x Disk Spac	e ×
The list below i each drive's av	ncludes the drives you vailable and required d	i can install netX Co isk space.	nfiguration Tool V1.x	to, along with
Volume	Disk Size	Available	Required	Difference
A :	0KB	0KB	0KB	0KB
	194GB	170GB	37MB	170GB
🗇 D:	270GB	270GB	0KB	270GB
				OK

Figure 195: Disk Space

Check the disk space of the drives and close the **Disk Space** window via **OK**.

₿	netX Configuration Tool V1.x	- 🗆 🗙
Confirm	Installation	ESCHOR EMPETENCE IN
The installer Click "Next"	is ready to install netX Configuration Tool V1.x on your computer. to start the installation.	
	Cancel < <u>B</u> ack	Next >

6. Starting Installation

Figure 196: Confirm Installation

- > Click on **Next**, to start the installation.
- 7. Installation Progress
- P→ netX Configuration Tool is being installed.

1 1 1	netX Configuration Tool V1.x	- 🗆 🗙
Installir V1.x	ng netX Configuration Tool	COMPETENCE IN
netX Configu	uration Tool V1.x is being installed.	
Please wa	sit	
	Cancel < Back	<u>N</u> ext >

Figure 197: netX Configuration Tool - Installation Progress

> Wait until the installation has been completed.

- 8. Installation Complete
- ✤ The netX Configuration Tool installation is complete.

1	netX Configuration Tool V1.x	- 🗆 🗙
Installa	ation Complete	Competence in
netX Config Click ''Close	uration Tool V1.x has been successfully installed. " to exit.	
	Cancel < <u>B</u> ack	Close

Figure 198: netX Configuration Tool - Installation complete

- > Click on **Close**, to finish the installation.
- NetX Configuration Tool is installed and can be started via Start > All Programs > Hilscher GmbH > netX Configuration Tool.

6.6 Installation under Windows 10

Requirement

First install the cifX Device Driver and then start the netX Configuration Tool setup program.



Note: You need administrator privileges under Windows[®] 10 to install the Slave configuration tool netX Configuration Tool on your PC.

Note: If an older version of netX Configuration Tool is already installed on your system, uninstall it first before you install the new version.

Preparation

- Close all application programs on the system and download the Communication Solutions DVD as a ZIP-file to the local hard disk of your PC and unpack it.
- 2. Double-click the Communication-Solutions.exe file in the root directory of the DVD to open the Autostart menu.
- ♣ The startup screen **Communication Solutions** is displayed.

(Installation Guide Install SYCON.net Configuration Software	
	Documentation	, and an and an
	Drivers, Software and Tools	Core Manager
	Install CIX / netJACK Device Driver	
	Install USB Diagnosis Driver	
	Check part UCCT for Demote access	
	Statt HetHUST for Remote access	
1	Driver Toolkit for Programmere	Hills of Hills
	Auxilian Toole	
	Auxiliary roots	N N
		0

Figure 199: Start the Installation for the Slave Configuration Tool netX Configuration Tool

Click on Drivers, Software and Tools > Install Slave Configuration Software.

Or:

Open on the Communication Solutions DVD the directory [drive letter]:\Tools\Slave Configuration Tool\ and start the netXConfigurationUtility_Setup.exe file by a double-click.



Note: Reduce the number of Windows[®] safety questions by running the setup via **Run as Administrator**. You also need administrator rights to uninstall the software.

Right click on the SYCONnet netX setup.exe file and then click on Run as Administrator.

netXConfigurationUtility_Setup		
	Open	
	💡 Run as administrator	
	Troubleshoot compatibility	- 1
	Pin to Start	
	7-Zip	>
	CRC SHA	>
	Fuhren Sie die Überprufung mit Windows Defender durch	
	K Auf Viren untersuchen	-
	🎉 In die Quarantäne verschieben	
	Pin to taskbar	
	Restore previous versions	
	Send to	>
	Cut	
	Сору	
	Create shortcut	
	Delete	
	Rename	
	Properties	

Figure 200: SYCONnet netX setup.exe - Run as Administrator

- > Answer the Windows[®] security question with **Yes**.
- ✤ The netX Configuration Tool installation setup is started.



Figure 201: netX Setup and Configuration

Installation Steps

- 3. netX Configuration Tool Setup Wizard
- The netX Configuration Tool Setup Wizard is displayed.



Figure 202: netX Configuration Tool Setup Wizard

- Click on Next.
- 4. Select Installation Folder
- Select Installation Folder is displayed.



Figure 203: netX Configuration Tool Setup Wizard

Click on **Next**, to install the folder indicated under **Folder**.

Or:

To install a different folder, enter under Folder a different folder and click on Next.

Or:

- > To install a different folder, click on **Browse**.
- [™] Browse for Folder is displayed.



<u>B</u> rowse:	📸 netX Configuration Tool V1. 🔍 🖌 🖆
<u>F</u> older:	C:\Program Files (x86)\Hilscher GmbH\netX Configuration Tool V1
	OK Cancel

Figure 204: Browse for Folder

- Select a folder and click on **OK**.
- > Answer the Windows[®] security question with **Yes**.
- 5. Check Disk Space
- Click on **Disk Cost**, to check which drive provides the required space for the installation.

netX Configuration Tool					
The list below includes the drives you can install netX Configuration Tool and the state to, along with each drive's available and required disk space.					
Volume	Disk Size	Available	Required	Difference	
■A:	OKB	0KB	0KB	0KB	
C:	194GB	170GB	37MB	170GB	
💷 D:	270GB	270GB	OKB	270GB	
				OK	

Figure 205: Disk Space

Check the disk space of the drives and close the **Disk Space** window via **OK**.

6. Starting Installation

😸 netX Configuration Tool 👘 👘 🦳 —		×
Confirm Installation	hils COMM	
The installer is ready to install netX Configuration Tool 💶 📰 on your computer.		
Click "Next" to start the installation.		
Cancel < <u>B</u> ack	<u>N</u> ext	>

Figure 206: Confirm Installation

- Click on **Next**, to start the installation.
- 7. Installation Progress
- P→ netX Configuration Tool is being installed.

岃 netX Configuration Tool	-		×
Installing netX Configuration Tool		hils	
netX Configuration Tool 17 page is being installed.			
Please wait		_	
Cancel	<u>B</u> ack	<u>N</u> ext	>

Figure 207: netX Configuration Tool - Installation Progress

> Wait until the installation has been completed.
- 8. Installation Complete
- ✤ The netX Configuration Tool installation is complete.

netX Configuration Tool			-		×
Installation Complete					che
netX Configuration Tool 🐂 💶 has b	een successfully insta	led.			
Click "Close" to exit.					
	Cancel	< <u>B</u> ack	C	<u>C</u> lose	9

Figure 208: netX Configuration Tool - Installation complete

- Click on **Close**, to finish the installation.
- NetX Configuration Tool is installed and can be started via Start > All Programs > Hilscher GmbH > netX Configuration Tool.

6.7 Uninstalling under Windows XP

Requirements



Note: You need administrator privileges under Windows[®] XP to uninstall the Slave configuration tool netX Configuration Tool from your PC.

Preparation

In order to uninstall the Slave configuration tool netX Configuration Tool:

Close all application programs.

Steps for Uninstalling

1. First start the control panel of Microsoft Windows XP®.



Figure 209: Windows Control Panel - Add or Remove Programs

> Double click on Add or Remove Programs in order to open the list.

✤ The window Add or Remove Programs for changing and removing Windows programs opens.

🐻 Add or Rei	nove Programs		
	Currently installed programs:	Sort by: Name	*
C <u>h</u> ange or Remove Programs	C.	Size	6.68MB
	स अव	Size	10.20MB 27.75MB
Add <u>N</u> ew Programs	15'	Size	335.00MB
-	B Entries from other programs	Size	2.16MB
<u> </u>	<u></u>	Size	1.69MB
Add/Remove Windows	50 50	Size	0.20MB
Components		Size	10.31MB
	a	Size	10.13MB
		Size	3.69MB
Set Program Access and	ä	Size	0.16MB
Deraults	Թ netX Configuration Tool V1.x	Size	<u>15,63 MB</u>
	Click here for support information.	Used	rarely
	To change this program or remove it from your computer, click Change or Remove.	Change	Remove
	23	Size	7.42MB
		Size	0.55MB 🐱

Figure 210: Windows – Add or Remove Programs

- Now search for the entry for netX Configuration Tool.
- Click on **Remove >** to start the uninstalling.
- At first, a confirmation box for safety purposes appears:

	X
?	Are you sure you want to remove netX Configuration Tool V.x from your computer?
	<u>Y</u> es <u>N</u> o

Figure 211: netX Configuration Tool Confirmation Box

- > Click on **Yes** in order to perform the uninstalling.
- Now netX Configuration Tool is being uninstalled. This may take some minutes.

netX Configuration Tool V1.x
Cancel

Figure 212: netX Configuration Tool Uninstalling Progress

Nait until netX Configuration Tool has been uninstalled and thus been removed from the PC.

6.8 Uninstalling under Windows 7

Requirements



Note: You need administrator privileges under Windows[®] 7 to uninstall the Slave configuration tool netX Configuration Tool from your PC.

Preparation

In order to uninstall the Slave configuration tool netX Configuration Tool:

Close all application programs.

Steps for Uninstalling

1. Open Start



Figure 213: Start > Control Panel

Click on Control Panel.



♣ The window **Adjust your computer's settings** is displayed.

Figure 214: Window Adjust your Computer's Settings

- 2. Click on Uninstall program.
- ⇒ The window Uninstall or change programs is displayed.

G → 🖾 → Control Panel →	Programs Programs and Features	▼ 4 9	Search Programs o	and Features	Q
Control Panel Home View installed updates 😵 Turn Windows features on or	Uninstall or change a program To uninstall a program, select it from the list and	then click U	Ininstall, Change, or	Repair.	
off	Organize 🕶 Uninstall Change Repair			· ·	• 🕡
Install a program from the network	Name	Publi	sher	Inst	talled On
	Entries from other pro	ograms		10/ 22/ 23/ 25/ 23/ 23/ 23/ 23/ 23/ 23/	11/2011 08/2011 09/2011 08/2011 08/2011 09/2011 09/2011 09/2011 09/2011
	netX Configuration Tool V1.x	Hiles	har GmbH	30/	11/2011
	POT	Unin	stall	29/	11/2011
		Char	ige ir	23/	09/2011
		кера			
	Hilscher GmbH Product version: 1. Help link: www.	hilscher.com	n		F

Figure 215: Control Panel - Uninstall or Change Programs

- 3. Uninstalling netX Configuration Tool.
- Now search for the entry for netX Configuration Tool.
- Right click on netX Configuration Tool.
- > In the context menu click on **Uninstall** to start the uninstalling.

At first, a confirmation dialog appears:



Figure 216: Programs and Features

> Click on **Yes** in order to perform the uninstalling.

✤ Preparing to remove:

Windows Installer	
Preparing to remove	
	Cancel

Figure 217: Windows Installer - Preparing to remove

- A Windows[®] safety questions appears.
- Click in the Windows[®] security question on Yes.
- Now netX Configuration Tool is being uninstalled. This may take some minutes.



Figure 218: netX Configuration Tool Uninstalling Progress

✤ Wait until netX Configuration Tool has been uninstalled and thus been removed from the PC.

6.9 Uninstalling under Windows 8

Requirements



Note: You need administrator privileges under Windows[®] 8 to uninstall the Slave configuration tool netX Configuration Tool from your PC.

Preparation

In order to uninstall the Slave configuration tool netX Configuration Tool:

Close all application programs.

Steps for Uninstalling

- 1. Open Windows® 8 Start Screen.
- Press the keys [Ctrl] and [ESC].



Figure 219: Start Screen Windows 8

- Press the keys [Win] and [F].
- > Select Settings.
- > Enter **Uninstall a program** into the search field.



Figure 220: Uninstall a program

- 2. Click on Uninstall program.
- The window Uninstall or change programs is displayed.



Figure 221: Control Panel - Uninstall or Change Programs

- 3. Uninstalling netX Configuration Tool.
- Now search for the entry for netX Configuration Tool.
- Right click on netX Configuration Tool.
- In the context menu click on Uninstall to start the uninstalling.
- ✤ At first, a confirmation dialog appears:



Figure 222: Programs and Features

- Click on Yes in order to perform the uninstalling.
- ✤ Preparing to remove:

netX Configuration Tool
Preparing to remove
Cancel

Figure 223: Windows Installer - Preparing to remove

- A Windows[®] safety questions appears.
- Click in the Windows[®] security question on Yes.
- $\ensuremath{\mathfrak{I}}$ Now netX Configuration Tool is being uninstalled. This may take some minutes.



Figure 224: netX Configuration Tool Uninstalling Progress

✤ Wait until netX Configuration Tool has been uninstalled and thus been removed from the PC.

6.10 Uninstalling under Windows 10

Requirements



Note: You need administrator privileges under Windows[®] 10 to uninstall the Slave configuration tool netX Configuration Tool from your PC.

Preparation

In order to uninstall the Slave configuration tool netX Configuration Tool:

Close all application programs.

Steps for Uninstalling

1. Open Windows[®] 10 Start Screen.



Figure 225: Start Screen Windows 10

- Select Settings.
- > Enter **Uninstall a program** into the search field.

netX Configuration Tool

	5			
← s	ettings		-	×
ស៊្លែ ទ	EARCH RESULTS	Progr		\times
ૼૢૼૺૺ	Default app settings			
्ट्रि	Add or remove programs			
ૼૢૼૺ૱	Apps & features			
्रि	Choose a default app for each protocol			
्रि	Choose a default app for each type of file			
õ	Programs and Features			
à	Change or remove a program 🔓			
õ	Install a program from the network			
õ	Run programs made for previous versions of Windows			
ද්ටු	Feedback settings			
1	Allow an app through Windows Firewall			
	See which processes start up automatically when you start Windows			
S	Turn Windows features on or off			

Figure 226: Uninstall a program

2. Click on Uninstall program.

Programs and Features _ П Х → ✓ ↑ 0 > Control Panel → Programs → Programs and Features ✓ ♂ Search Programs and Features *P* Control Panel Home Uninstall or change a program View installed updates To uninstall a program, select it from the list and then click Uninstall, Change, or Repair. 💗 Turn Windows features on or off = • ? Organize 🕶 Uninstall Change Repair Install a program from the Name Publisher Installed On Size Version network 8z 1/0/07 4/0/08 10:00 ipe finites A Adulta Auroland Resider (DC - Deutsch 4/3/2017 4148 040300 Adulta Systems in provided 🖕 MITOLAG DAAR OM 1.5 MI Weather Department from System 1, 1972/117 102.000 10000 1/1/100 Gaucita (34.0 Sec. Ast 10108 (0010) 🖗 Caperais Calendri Causty, 1945, Madeus 1.1.1 10.66 10.655 Country Lab. Kapendylak U2/2016 Al Kapendylak U2/2017 HoseKCorportion U2/2017 Hadia U/4/2017 Kaparity Incesty Cantor 'O Statement System 203 MB 103 AP ALL REPORTS 😆 Manadia Mandara (2003) pala dag 2012/08/07/17 🖏 Filmattin Administrativa Mendian Statis. 1.3 (0.1) 20.01 (21.1 Hilscher GmbH 4/3/2017 17.9 MB netX Configuration Tool Natiogues Bastic Corporation 57/07/07 Velangens Bastic Corporation 5/19/087 PORCEARE RECEIPT IS Served Council (2018) DOM: NO SACRETAGE Chingson PhONNET 10 Hit Controller 2014 11110 1001/0001000 Volume DOOPLand/EDContributer Velopera Brokis Corporation L'ANDER NAME LOOPLINGS. Totopera Distric Corporation 1/10/007 E Stangers (NCOV), estimations CARE LINELTON DATE: Hilscher GmbH Product version: 1.09.00 Support link: www.hilscher.com Comments: netX Configuration Tool netx Size: 17.9 MB Help link: www.hilscher.com Figure 227: Control Panel - Uninstall or Change Programs

The window Uninstall or change programs is displayed.

- 3. Uninstalling netX Configuration Tool.
- Now search for the entry for netX Configuration Tool.
- Right click on netX Configuration Tool.
- > In the context menu click on **Uninstall** to start the uninstalling.
- ✤ At first, a confirmation dialog appears:



Figure 228: Programs and Features

- Click on Yes in order to perform the uninstalling.
- ✤ Preparing to remove:

netX Configuration Tool	
Preparing to remove	
	Cancel

Figure 229: Windows Installer - Preparing to remove

- A Windows[®] safety questions appears.
- > Click in the Windows[®] security question on **Yes**.
- Now netX Configuration Tool is being uninstalled. This may take some minutes.



Figure 230: netX Configuration Tool Uninstalling Progress

✤ Wait until netX Configuration Tool has been uninstalled and thus been removed from the PC.

7 PC Cards cifX PC/104 (ISA)

7.1 SystemRequirements



Note: To operate a **PC Card cifX PC/104 (ISA)** in a PC, the PC has to provide a free ISA memory area of 16 Kbyte in the memory range C0000 to FBFFF. If the PC card cifX should be operated with interrupt, then the PC must provide additionally a free ISA interrupt.

7.2 Installation under Windows XP

Requirements

The cifX Device Driver was already installed on the used PC. If this is not the case yet, then run the setup program cifX Device Driver Setup.exe. This setup program installs the driver and the required INF files.



Note: To operate a PC Card cifX PC/104 (ISA) in a PC, the PC has to provide a free ISA memory area of 16 Kbyte in the memory range C0000 to FBFFF. If the PC card cifX should be operated with interrupt, then the PC has to provide additionally a free ISA interrupt.

Installation steps

Do the following steps to install a PC Card cifX PC/104 (ISA), e. g. to reserve the memory range and if necessary one interrupt at the operating system for the PC card cifX:

- 1. Start the Hardware Wizard
- Click Start > Settings > Control Panel.
- > Then click Add Hardware.



Click Next >.



- 2. Hardware Wizard
- Select Yes, I have already connected the hardware.
- Click Next >.
- Move the scroll bar to the bottom to display the end of the list Installed Hardware.
- Select Add a new hardware device.

Add Hardware Wizard	
The following hardware is already installed on your computer	A
From the list below, select an installed hardware device, then click Next to check properties or troubleshoot a problem you might be having. To add hardware not shown in the list, click "Add a new hardware device."	
Installed hardware:	
😋 USB Root Hub	^
👻 USB Root Hub	
et USB Root Hub	
ter USB Composite Device	
Add a new hardware device	v
< <u>B</u> ack <u>N</u> ext >	Cancel

- Click Next >.
- Select Install the hardware that I manually select from a list (Advanced).

Add Hardware Wizard
The wizard can help you install other hardware
The wizard can search for other hardware and automatically install it for you. Or, if you know exactly which hardware model you want to install, you can select it from a list.
What do you want the wizard to do?
Search for and install the hardware automatically (Recommended)
Install the hardware that I manually select from a list (Advanced)
< <u>B</u> ack <u>N</u> ext > Cancel

- ➢ Click Next >.
- Select Show All Devices.

Add Hardware Wizard	
From the list below, select the type of hardware you are installing	2
If you do not see the hardware category you want, click Show All Devices. Common <u>h</u> ardware types:	
Show All Devices Image: Display adapters IDE ATA/ATAPI controllers IDE ATA/ATAPI controllers IDE ATA/ATAPI controllers IDE ATA/ATAPI controllers Imaging devices Infrared devices Infrared devices Imaging devices Infrared devices Image: Natwork adapters Image: Natwork adapters	
< <u>B</u> ack <u>N</u> ext > Cancel)

- Click Next >.
- Select from the list of **Manufacturer** > **Hilscher GmbH**.
- Then select from the list of Model > cifX ISA (16kB).



- Click Next >.
- 3. Install
- Click Next >.

Add Hardware Wizard			
The wizard	is ready to install your hardware		
Hardware	e to install:		
	ci⊠ISA (16kB)		
To start in	istalling your new hardware, click Next.		
	<u> < B</u>	ack <u>N</u> ext >	Cancel

- ✤ The cifX Device Driver is installed.
- 4. Finish or change resources
- If the PC Card cifX PC/104 is jumpered for memory address D0000 and no interrupt jumper is set on the PC card cifX (polling), then click Finish.



- If you have clicked on Finish, then restart the PC.
- If the PC Card cifX PC/104 is jumpered for a memory address other than D0000 and no interrupt jumper is set on the PC card cifX (polling), then click View of change resources for this hardware (Advanced). Continue with section Select Memory Address for polling (Basic Configuration 0001) on page 161.
- If the PC card cifX is to be used with interrupt, then click View of change resources for this hardware (Advanced). Continue with section Select Memory Address and interrupt (Basic Configuration 0002) on page 164.

Select Memory Address for polling (Basic Configuration 0001)

Click Set Configuration Manually.



- > At Settings based on select Basic configuration 0001.
- Select **Memory Range**.

Add Hardware Wizard Properties 🛛 🕐 🗙			
Resources			
citX ISA (16kB)			
<u>R</u> esource settings:			
Resource type Setting			
Memory Range ?			
Setting based on: Basic configuration 0	001 🔽		
Use automatic set	ings Change Setting		
Conflicting device list:			
No conflicts.			
	OK Cancel		

- > Click Change Settings.
- Set the memory address: e. g. address E0000.

Edit Memory Range 🛛 🛛 🔀		
Enter the memory range you would like to set for this device.		
will be automatically selected, or you may select a range using the up and down arrows.		
This resource is assigned to the following child device(s):		
Value: 000E0000 - 000E3FFF 🛟		
Conflict information		
The setting you have chosen does not conflict with any other devices.		
No devices are conflicting.		
OK Cancel		

- > Click OK.
- ₹

Add Hardware Wizard Properties 🛛 🔹 🛛 🔀			
Resources			
ciiX ISA (16kB)			
<u>R</u> esource settings:			
Resource type	Setting		
Memory Range	000E0000 - 000E3FFF		
Setting <u>b</u> ased on: [Basic configuration 0001	.	
Conflicting device list	:		
No conflicts.		~	
	ОК С.	ancel	

- Click **OK**.
- > Click Finish.



Restart the PC.

Select Memory Address and interrupt (Basic Configuration 0002)

Add Hardware Wizard Properties 🛛 ? 🗙		
Resources		
cifX ISA (16kB)		
<u>R</u> esource settings: This device isn't using any resources because it has a problem.		
Set Configuration Manually		
OK Cancel		

> Click Set Configuration Manually.

> At Settings based on select Basic configuration 0002.

Add Hardware Wizard Properties	? ×
Resources	
citX ISA (16kB)	
<u>R</u> esource settings:	
Resource type Setting	
Memory Range ?	
Setting based on: Basic configuration 0002	~
Use automatic settings	ng
Conflicting device list:	
No conflicts.	^
	~
ОКС	ancel

> Select Memory Range.

- Click Change Settings.
- Set the memory address: e. g. address E0000.

Edit Memory Range 🔹 💽		
Enter the memory range you would like to set for this device.		
You may either enter a specific range and the nearest valid range will be automatically selected, or you may select a range using the up and down arrows.		
This resource is assigned to the following child device(s):		
Value: 000E0000 - 000E3FFF		
The setting you have chosen does not conflict with any other devices.		
No devices are conflicting.		
OK Cancel		

- ➢ Click OK.
- Select IRQ.

Add Hardware Wizard Properties 🔹 🛛 🔀			
Resources			
cifX ISA (16kB)			
Resource settings:			
Resource type Setting			
Memory Range 000E0000 - 000E3FFF			
Setting <u>b</u> ased on: Basic configuration 0002			
Use automatic settings			
Conflicting device list:			
No conflicts.			
OK Cancel			

- > Click Change Settings.
- Set the interrupt number: e. g. interrupt 11.

Edit Interrupt Request 🛛 🕐 🔀			
Enter the interrupt request you would like to set for this device.			
You may either enter a specific value and the nearest valid value will be automatically selected, or you may select a value using the up and down arrows.			
This resource is assigned to the following child device(s):			
Value: 11			
The setting you have chosen does not conflict with any other devices.			
No devices are conflicting.			
OK Cancel			

- Click OK.
- ₽

Add Hardware Wizard Properties 🔹 🥐 🗙		
Resources		
citX ISA (16kB)		
Resource settings:		
Resource type Setting		
Memory Range 000E0000 - 000E3FFF		
Setting <u>b</u> ased on: Basic configuration 0002		
Use automatic settings		
OK Cancel		

- > Click OK.
- > Click Finish.



Restart the PC.

Check in the Device Manager if the PC Card cifX PC/104 (ISA) is installed properly

- Open the Device Manager: Desktop symbol My Computer > right mouse button Properties > Tab Hardware > button Device Manager.
- Check if the display in the Device Manager shows cifX ISA (16kB).

CIFx Communication Interface

If an exclamation mark is shown with cifX ISA (16kB).

- If an exclamation mark is shown with cifX ISA (16kB), then either a resource conflict exists or the requested resources are not available.
- Select from the context menu on cifX ISA (16kB) > Properties.
- Select the tab Resources.
- Change the setting for the memory range respectively the interrupt with Set Configuration Manually, as described in section Select Memory Address for polling (Basic Configuration 0001) on page 161 or in section Select Memory Address and interrupt (Basic Configuration 0002) on page 164.

7.3 Installation under Windows 7

Requirements

The cifX Device Driver was already installed on the used PC. If this is not the case yet, then run the setup program cifX Device Driver Setup.exe. This setup program installs the driver and the required INF files.



Note: To operate a PC Card cifX PC/104 (ISA) in a PC, the PC has to provide a free ISA memory area of 16 Kbyte in the memory range C0000 to FBFFF. If the PC card cifX should be operated with interrupt, then the PC has to provide additionally a free ISA interrupt.

Installation steps

Do the following steps to install a PC Card cifX PC/104 (ISA), e. g. to reserve the memory range and if necessary one interrupt at the operating system for the card:

1. Open Start





- 2. Search and start the Device Manager.
- > Enter **Device Manager** into the search field.
- ₽

 \triangleright



- Click on Device Manager.
- ✤ The Device Manager starts.

- 3. Add legacy hardware
- In the Device manager click on the any element of the tree, e. g. select the top element of the tree.
- Select from the menu **Action > Add legacy hardware**.

📇 De	🚽 Device Manager 📃 🕞 💌				
File	File Action View Help				
<pre></pre>		Scan for hardware changes			
4		Add legacy hardware			
		Help			
		Display adapters DVD/CD-ROM drives Floppy disk drives Floppy drive controllers IDE ATA/ATAPI controllers Mice and other pointing devices Monitors Network adapters Ports (COM & LPT) System devices			
, Add a	legac	y (non Plug and Play) device to the cor	mputer.		

- ✤ The Hardware Wizard starts.
- 4. Hardware Wizard
- > Click Next >.



Select Install the hardware that I manually select from a list (Advanced).

Add Hardware		
The wizard can help you install other hardware		
The wizard can search for other hardware and automatically install it for you. Or, if you know exactly which hardware model you want to install, you can select it from a list.		
What do you want the wizard to do?		
Search for and install the hardware automatically (Recommended)		
Install the hardware that I manually select from a list (Advanced)		
< <u>B</u> ack Next > Cancel		

- Click Next >.
- > Select Show All Devices.

Add Hardware	
From the list below, select the type of hardware you are installing	
If you do not see the hardware category you want, click Show All Devices.	
Common <u>h</u> ardware types:	
Show All Devices	•
No. 10 Sector Se	=
IDE ATA/ATAPI controllers	
📾 IEEE 1284.4 compatible printer	
📾 IEEE 1284.4 devices	
🖗 IEEE 1394 Bus host controllers	
The second secon	
Infrared devices	
Stender Extender 🔜 📟	Ŧ
< <u>B</u> ack <u>N</u> ext >	Cancel

➢ Click Next >.

- > Wait until Windows[®] has created the device list. This can take a while.
- Select from the list of **Manufacturer** > **Hilscher GmbH**.
- > Then select from the list of **Model** > **cifX ISA (16kB)**.

Add Hardware			
Select the device driver you want to install for this hardware.			
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.			
Manufacturer Model Hauppauge Computer Works! Image: Compatibility of the state			
Tell me why driver signing is important < Back			

- Click Next >.
- Click Next >.

Add Hardware	
The wizard is ready to install your hardware	
Hardware to install:	
cifX ISA (16kB)	
To start installing your new hardware, click Next.	
	< <u>Back</u> <u>N</u> ext > Cancel

- 5. Install
- > If the Windows[®] Security asks, then click Install.



- ✤ The cifX Device Driver is installed.
- 6. Finish or change resources.
- If the PC Card cifX PC/104 is jumpered for memory address D0000 and no interrupt jumper is set on the PC card cifX (polling), then click Finish.

Add Hardware					
	Completing the Add Hardware Wizard				
	The following hardware was installed: ifX ISA (16kB) The software for this device is now installed, but may not work correctly. Windows cannot determine the settings for this device. Consult the documentation that came with this device and use the Resource tab to set the configuration. (Code 34)				
	View or change resources for this hardware (Advanced)				
	< Back Finish Cancel				

- If you have clicked on Finish, then restart the PC.
- If the PC Card cifX PC/104 is jumpered for a memory address other than D0000 and no interrupt jumper is set on the PC card cifX (polling), then click View of change resources for this hardware (Advanced). Continue with section Select Memory Address for polling (Basic Configuration 0001) on page 173.
- If the PC Card cifX PC/104 is to be used with interrupt, then click View of change resources for this hardware (Advanced). Continue with section Select Memory Address and interrupt (Basic Configuration 0002) on page 175.

Select Memory Address for polling (Basic Configuration 0001)

Click Set Configuration Manually.

Add Hardware Properties	? 🗙
Resources	
cifX ISA (16kB)	
Resource settings:	
This device isn't using any resources because it has a problem.	
Set Configuration N	lanually
OK	Cancel

- > Uncheck Use automatic settings.
- > At Settings based on select Basic configuration 0001.
- Select Memory Range.

Add Hardware Properties
Resources
cifX ISA (16kB)
Resource settings:
Resource type Setting
Memory Range ?
Setting based on: Basic configuration 0001
Use automatic settings
Conflicting device list:
No conflicts.
-
OK Cancel

> Click Change Settings.

Set the memory address: e. g. address E0000.



₹

Add Hardware Properties
Resources
cifX ISA (16kB)
Resource settings:
Resource type Setting
Memory Range 000E0000 - 000E3FFF
Setting based on: Basic configuration 0001
Use automatic settings
Conflicting device list:
No conflicts.
OK Cancel

➢ Click OK.

> Click Finish.



Restart the PC.

Select Memory Address and interrupt (Basic Configuration 0002)

> Click Set Configuration Manually.



- > Uncheck **Use automatic settings**.
- > At Settings based on select Basic configuration 0002.
- Select Memory Range.

Add Hardware Properties
Resources
cifX ISA (16kB)
Resource settings:
Resource type Setting
Memory Range ?
Setting <u>b</u> ased on: Basic configuration 0002
Use automatic settings
Conflicting device list:
No conflicts.
OK Cancel

- > Click Change Settings.
- > Set the memory address: e. g. address E0000.



Click **OK**.

> Select **IRQ**.

Add Hardware Properties
Resources
ofX ISA (16kB)
Resource settings:
Resource type Setting
Memory Range 000E0000 - 000E3FFF
Setting based on: Basic configuration 0002
Use automatic settings
Conflicting device list:
No conflicts.
OK Cancel

- Click Change Settings.
- > Set the interrupt number: e. g. interrupt 11.

Edit Interrupt Request					
Enter the interrupt request you would like to set for this device.					
You may either enter a specific value and the nearest valid value will be automatically selected, or you may select a value using the up and down arrows.					
This resource is assigned to the following child device(s):					
Value: 11					
devices.					
No devices are conflicting.					
ОК	Cancel				

> Click OK.

Add Hardware Properties
Resources
cifX ISA (16kB)
Resource settings:
Resource type Setting
Memory Range 000E0000 - 000E3FFF IRQ 0x000000B (11)
Setting based on: Basic configuration 0002
Use automatic settings
THO CONTINUES.
OK Cancel

- Click OK.
- > Click Finish.



Restart the PC.

Check in the Device Manager if the PC Card cifX PC/104 (ISA) is installed properly

- > Open the **Device Manager**.
- > Check if the display in the **Device Manager** shows cifX ISA (16kB).

▲ ♀ cifX Communication Interface ♀ cifX ISA (16kB)

If an exclamation mark is shown with cifX ISA (16kB).

- If an exclamation mark is shown with cifX ISA (16kB), then either a resource conflict exists or the requested resources are not available.
- Select from the context menu on cifX ISA (16kB) > Properties.
- Select the tab **Resources**.
- Change the setting for the memory range respectively the interrupt with Set Configuration Manually, as described in section Select Memory Address for polling (Basic Configuration 0001) on page 173 or in section Select Memory Address and interrupt (Basic Configuration 0002) on page 175.

8 Hardware Settings

8.1 Slot Number (Card ID)

Only for: CIFX 50-DP, CIFX 50-CO, CIFX 50-DN, CIFX 50-CC, CIFX 50-CP, CIFX 50E-DP, CIFX 50E-CO, CIFX 50E-DN, CIFX 50E-CC, CIFX 50E-CP and CIFX 50-2ASM.

This section describes how the **Slot Number (Card ID)** is displayed in the cifX Device Driver setup program and in the configuration software SYCON.net.

8.1.1 cifX Device Driver Setup

Precondition: Previously a **Slot Number (Card ID)** between 1 and 9 has been set at the PC Card cifX (refer to User Manual *PC Cards cifX PCI, PCIe, Low Profile PCIe / PCI (CIFX 50), PCI Express (CIFX 50E), Low Profile PCI Express (CIFX 70E, CIFX 100EH)* section *Rotary Switch for Slot Number (Card ID)*).

The description below uses for Slot Number (Card ID) the value "1".

- 1. Open the cifX Setup program in the control panel.
- Select Start > Control Panel.
- Double click on the cifX Setup symbol.
- ✤ The cifX Driver setup program starts.
- 2. Select cifX.
- Select under **Device List > Active Devices** the entry **cifX0** or **cifX1**.
- ⇒ The field Slot Number shows the Slot Number (Card ID) for the PC Card cifX. Here the Slot Number (Card ID) has the value "1".

🌆 cifX Driver Setup	Utility					
<u>File D</u> evice D <u>r</u> iver <u>?</u>						
Device List 📃						
About → Active Devices → cifX0 CH#0 CH#1 CH#2 CH#3 CH#4	Slot Number: Device Number: Serial Number: <u>A</u> lias:	1 1251100 20007		Base Address: Interrupt Number: Use Interrupt: Enable DMA: NDIS Support:	0×FE8F0000 0 П	
CH#5 CH#0 CH#1 CH#2 CH#3 CH#4 CH#5	Use loadable Mo	dules:			Select <u>Fi</u> le	
DevNr/SN SlotNr			ОК	Cancel	Apply	Help

Figure 231: Slot Number (Card ID) in the cifX Device Driver Setup
Oder:

- 3. Switch to SlotNr presentation.
- > Click under **Device List** on **SlotNr**.
- Click under Device List on Slot 1.

🏜 cifX Driver Setup	Utility				
<u>File D</u> evice D <u>r</u> iver <u>?</u>					
Device List 📃					
Slot 1	Slot Number: 1		Use Interrupt:	Γ	
CH#1	<u>A</u> lias:		Enable <u>D</u> MA:		
СН#2 🗧	_ ,		NDIS Support:	Г	
CH#3	Current Devices:				
CH#4	Device	DevNr	SerNr Phy	sAddr	
CH#5	cifX0	1250100	21204 0×F	E7F0000	
🔄 Slot 2					
CH#0					
CH#1					
CH#2					
CH#3					
CH#4	Use loadable Modules	. –			
CH#5					
	rcX base firmware			Select <u>Fi</u> le	
		<i>,</i>			
CH#1					
CH#3					
DevNr/SN SlotNr					
			OK Cancel	Apply	Help

Figure 232: Slot Number (Card ID) in the cifX Device Driver Setup, "SlotNr" selected

8.1.2 SYCON.net

In the **Device Assignment** in the column **Slot number** the **Slot-Nummer** (Card ID) is displayed preset at the PC Card cifX via the Rotary Switch Slot Number (Card ID).

The indication **n/a** means that no **Slot-Nummer (Card ID)** exists. This occurs if the PC Card cifX is not equipped with a **Rotary Switch Slot Number (Card ID)** or for PC Cards cifX equipped with a **Rotary Switch Slot Number (Card ID)** if the rotary switch is set to the value 0 (zero).

Device	Hardware Port 0/1/2/3	Slot number	Serial number	Driver	Channel Protocol	Access path
CIFX 50-DP	-/-/PROFIBUS/-	n/a	20031	CIFX Device Driver	PROFIBUS-DP Master	\cifX3_Ch0
CIFX 50-DP	-/-/PROFIBUS/-	1	20148	CIFX Device Driver	PROFIBUS-DP Master	\cifX0_Ch0

Finner 000, Ola (Numerican	(Os well ID) in the Cost of in the second in the second se	0-4
Figure 233: Slot Number	Card ID) in the Configuration	Software SYCON.net.
0		

Parameter	Meaning	Range of Value / Value
Slot number	Shows the Slot Number (Card ID) preset at the PC Card cifX via the Rotary Switch Slot Number (Card ID).	1 to 9, n/a
	The indication n/a means that no Slot-Nummer (Card ID) exists. This occurs if the PC Card cifX is not equipped with a Rotary Switch Slot Number (Card ID) or for PC Cards cifX equipped with a Rotary Switch Slot Number (Card ID) if the rotary switch is set to the value 0 (zero).	

Table 4: Slot Number (Card ID) in the Configuration Software SYCON.net.

8.2 "DMA Mode"

This section describes how to activate the **DMA Mode** in the cifX Device Driver setup program.

Case 1: Previously a **Slot Number (Card ID)** between 1 and 9 has been set at the PC Card cifX (refer to User Manual *PC Cards cifX*, section *Rotary Switch for Slot Number (Card ID)*).

Case 2: Previously the **Slot Number (Card ID)** value 0 has been set at the PC Card cifX or the PC Card cifX is not equipped with a **Rotary Switch Slot Number (Card ID)**.

The description below refers to case 1 and uses for **Slot Number (Card ID)** the value "1".

- 1. Switch to **SlotNr** presentation.
- Click under Device List on SlotNr.
- Click under Device List on Slot 1.
- 2. Activate DMA Mode.
- > Check Enable DMA.

b cifX Driver Setup	Utility				_ 🗆 🗙
<u>File D</u> evice D <u>r</u> iver <u>?</u>					
Device List					
Slot 1	Slot Number: 1		Use Inter	rupt: 🔲	
CH#0	Óliaca			DMA M	
	Wilds:		chable i	<u>D</u> MA: I X	
CH#2	Current Devices:		NDIS Sup	port:	
CH#3	Device	DevNr	SerNr	PhysAddr	-
CH#5	cifX0	1250100	21204	0×FE7F0000	-
🔄 Slot 2					
CH#0					
CH#1					
CH#2					
CH#3					
CH#4	Use loadable Modules				
CH#5					
	rcX base firmware			Select <u>F</u> ile	
CH#1					-
CH#2					
CH#3 🕑					
DevNr/SN SlotNr					
,					
			OK Cance	Apply	Help

Figure 234: Activating DMA Mode in the cifX Device Driver Setup

- 3. Apply Settings
- Click Apply
- Դ The DMA Mode is activated.

9 PC Settings

9.1 Windows Power Management PC Cards cifX PCI Express

Part No.]	PC Card cifX	Part No.
1251.100		CIFX 90E-DP\F	1291.410
1251.105		CIFX 90E-DP\MR\F	1291.412
1251.410		CIFX 90E-DP\ET\F	1291.414
1251.500		CIFX 90E-DP\MR\ET\F	1291.416
1251.510		CIFX 90E-CO\F	1291.500
1253.630		CIFX 90E-CO\MR\F	1291.502
1251.740		CIFX 90E-CO\ET\F	1291.504
1.259.100		CIFX 90E-CO\MR\ET\F	1291.506
1.259.103		CIFX 90E-DN\F	1291.510
9016.090		CIFX 90E-DN\MR\F	1291.512
1.259.410		CIFX 90E-DN\ET\F	1291.514
1.259.413		CIFX 90E-DN\MR\ET\F	1291.516
1.259.500			
1.259.503			
1.259.510			
1.259.513			
	Part No. 1251.100 1251.105 1251.410 1251.500 1251.510 1253.630 1251.740 1.259.100 1.259.103 9016.090 1.259.410 1.259.410 1.259.500 1.259.500 1.259.500 1.259.510	Part No.1251.1001251.1051251.4101251.5001251.5101253.6301251.7401.259.1001.259.1039016.0901.259.4101.259.4131.259.5001.259.5031.259.5101.259.513	Part No. PC Card cifX 1251.100 CIFX 90E-DP\F 1251.105 CIFX 90E-DP\MR\F 1251.410 CIFX 90E-DP\MR\F 1251.500 CIFX 90E-DP\MR\ET\F 1251.510 CIFX 90E-CO\F 1253.630 CIFX 90E-CO\MR\F 1251.740 CIFX 90E-CO\MR\F 1259.103 CIFX 90E-CO\MR\ET\F 1.259.103 CIFX 90E-CO\MR\F 9016.090 CIFX 90E-DN\MR\F 1.259.410 CIFX 90E-DN\MR\F 1.259.500 CIFX 90E-DN\MR\ET\F 1.259.503 CIFX 90E-DN\MR\ET\F 1.259.510 CIFX 90E-DN\MR\ET\F

Settings to the Microsoft Windows power management only affect the PC cards cifX PCI Express, as listed in the following table:

Table 5: PC Cards cifX PCI Express



Important: If you install a PC card cifX PCI Express (see *Table 5: PC Cards cifX PCI Express*), you <u>always</u> must disable the Microsoft Windows "Link State Power Management". Otherwise, it cannot be excluded that your PC freezes during the PC card cifX PCI Express is in operation.

Shut off Windows Power Management

- 1. Select Start > Control Panel.
- ♣ The window Adjust your computer's settings appears:



Figure 235: Click 'Hardware and Sound'

- 2. Click Hardware and Sound.
- ✤ The window Hardware and Sound appears:



Figure 236: Click 'Change when the computer sleeps'

- 3. Under Power Options click Change when the computer sleeps.
- ✤ The window Change when the computer sleeps appears:



Figure 237: Click 'Change advanced power settings'

- 4. Click Change advanced power settings.
- ✤ The window Power Options > Advances settings:

Power Options
Advanced settings
Select the power plan that you want to customize, and then choose settings that reflect how you want your computer to manage power.
Change settings that are currently unavailable
Balanced [Active]
 Wireless Adapter Settings Sleep USB settings Power buttons and lid PCI Express Link State Power Management Setting: Moderate power savings Processor power management Display Multimedia settings
<u>R</u> estore plan defaults
OK Cancel Apply

Figure 238: Click 'Change settings that are currently unavailable'

- 5. Click Change settings that are currently unavailable.
- 6. Scroll down until PCI Express > Link State Power Management appears.

7. For Link State Power Management select the setting ,Off'.



Figure 239: Set ,Link State Power Management' to 'Off'

8. Apply the changed settings by OK.

10 Appendix

10.1 List of Figures

Figure 1: System Overview cifX and SYCON.net	13
Figure 2: System Overview cifX and SYCON.net	14
Figure 3: System Overview cifX and netX Configuration Tool	15
Figure 4: System Overview cifX (Master) and Remote Connection via Ethernet	16
Figure 5: System Overview cifX (Slave) and Remote Connection via Ethernet	17
Figure 6: Start the Installation for the cifX Device Driver	20
Figure 7: cifX Device Driver-Setup - License Agreement	21
Figure 8: cifX Device Driver Installation is running	21
Figure 9: cifX Device Driver Installation is completed	22
Figure 10: Found New Hardware Wizard: Select 'No, not this time'	23
Figure 11: Found New Hardware Wizard: Select 'Install the software automatically'	23
Figure 12: Found New Hardware Wizard: Software is installed	24
Figure 13: Found New Hardware Wizard: Click 'Finish'	24
Figure 14: Found New Hardware (Example for PC card cifX)	25
Figure 15: Start the Installation for the cifX Device Driver	26
Figure 16: Running cifX Device Driver Setup.exe as administrator	27
Figure 17: cifX Device Driver Setup - License Agreement	27
Figure 18: cifX Device Driver Installation is running	28
Figure 19: cifX Device Driver Installation is completed	28
Figure 20: Device Driver Software was not successfully installed	29
Figure 21: Start the Installation for the cifX Device Driver	30
Figure 22: Running cifX Device Driver Setup.exe as administrator	31
Figure 23: cifX Device Driver Setup - License Agreement	31
Figure 24: cifX Device Driver Installation is running	32
Figure 25: Installation for cifX Device Driver completed	32
Figure 26: Start the Installation for the cifX Device Driver	34
Figure 27: Running cifX Device Driver Setup.exe as administrator	35
Figure 28: cifX Device Driver Setup - License Agreement	35
Figure 29: cifX Device Driver Installation is running	36
Figure 30: cifX Device Driver Installation is completed	36
Figure 31: System Properties	38
Figure 32: Control Panel	39
Figure 33: Startbildschirm Windows 8	40
Figure 34: Search and start the Device Manager	40
Figure 35: Startbildschirm Windows 10	41
Figure 36: Search and start the Device Manager	41
Figure 37: "Software" Pane	43
Figure 38:Message "Software"	44
Figure 39: cifX Device Driver is uninstalled	44
Figure 40: Control Panel	45
Figure 41: Device Manager (Example for PC card cifX)	46
Figure 42: Device Properties > General (Example for PC card cifX)	46
Figure 43: Device Properties > Driver(Example for PC card cifX)	47
Figure 44: Confirm Device Uninstall (Example for PC card cifX)	47
Figure 45: Control Panel > Uninstall a program	48
Figure 46: Uninstall or change a program > Uninstall	48
Figure 47: Programs and Features	49
Figure 48: Windows Installer	49
-	

187/194

Appendix	188/194
Figure 49: Unistalling cifX Device Driver	49
Figure 50: Start Screen Windows 8	50
Figure 51: Search and start the Device Manager	50
Figure 52: Device Manager (Example for PC card cifX)	51
Figure 53: Device Properties > General (Example for PC card cifX)	51
Figure 54: Device Properties > Driver (Example for PC card cifX)	52
Figure 55: Confirm Device Uninstall (Example for PC card cifX)	52
Figure 56: Uninstall a program	53
Figure 57: Uninstall or change a program > Uninstall	53
Figure 58: Programs and Features	54
Figure 59: Windows Installer	54
Figure 60: Unistalling cifX Device Driver	54
Figure 61: Start Screen Windows 8	55
Figure 62: Search and start the Device Manager	56
Figure 63: Device Manager (Example for PC card cifX)	56
Figure 64: Device Properties > General (Example for PC card cifX)	57
Figure 65: Device Properties > Driver (Example for PC card cifX)	57
Figure 66: Confirm Device Uninstall (Example for PC card cifX)	58
Figure 67: Uninstall a program	58
Figure 68: Uninstall or change a program > Uninstall cifX Device Driver entry	59
Figure 69: Programs and Features	59
Figure 70: Unistalling cifX Device Driver	59
Figure 71: Start Screen Communication Solutions – Install USB Driver	62
Figure 72: Device Driver Installation Wizard – Start Screen	63
Figure 73: Device Driver Installation Wizard – Driver Are Installing	63
Figure 74: Device Driver Installation Wizard – Installation Completed	64
Figure 75: Found New Hardware Wizard – USB Driver (1)	65
Figure 76: Found New Hardware Wizard – USB Driver (2)	65
Figure 77: Found New Hardware Wizard – USB Driver (3)	66
Figure 78: Found New Hardware Wizard – USB Driver (4)	66
Figure 79: Display of USB Connection in Device Manager	67
Figure 80: Start Screen Communication Solutions – Install USB Driver	68
Figure 81: Device Driver Installation Wizard – Start Screen	69
Figure 82: Device Driver Installation Wizard – Driver Are Installing	69
Figure 83: Device Driver Installation Wizard – Installation Completed	70
Figure 84: Display of USB Connection in Device Manager	71
Figure 85: Start Screen Communication Solutions – Install USB Driver	72
Figure 86: Device Driver Installation Wizard – Start Screen	73
Figure 87: Device Driver Installation Wizard – Driver Are Installing	73
Figure 88: Device Driver Installation Wizard – Installation Completed	74
Figure 89: Display of USB Connection in Device Manager	74
Figure 90: Start Screen Communication Solutions – Install USB Driver	75
Figure 91: Device Driver Installation Wizard – Start Screen	76
Figure 92: Device Driver Installation Wizard – Installation Completed	76
Figure 93: Display of USB Connection in Device Manager	77
Figure 94: Add or Remove Programs	78
Figure 95: Acknowledge Uninstall	78
Figure 96: Uninstall or Change a Program	79
Figure 97: Acknowledge Uninstall	80
Figure 98: Uninstall or Change a Program	81
Figure 99: Acknowledge Uninstall	81
Figure 100: Uninstall or Change a Program	82
Figure 101: Acknowledge Uninstall	82

Appendix	189/194
Figure 102: Start the Installation for the SYCON.net Configuration Software	84
Figure 103: SYCON.net Setup Language	85
Figure 104: SYCON.net Installation Information	85
Figure 105: Notes about major Changes in SYCON.net	86
Figure 106: SYCON.net License Agreement	86
Figure 107: SYCON.net Customer Information	87
Figure 108: SYCON.net Setup Type	87
Figure 109: SYCON.net Start Installation	88
Figure 110: SYCON.net Installation Status	88
Figure 111: SYCON.net Installation Finish	89
Figure 112: Start the Installation for the SYCON.net Configuration Software	90
Figure 113: SYCONnet netX setup.exe - Run as Administrator	91
Figure 114: SYCON.net Setup Language	91
Figure 115: Preparing to Install SYCON.net	92
Figure 116: SYCON.net Installation Information	92
Figure 117: Notes About Major Changes in SYCON.net	93
Figure 118: SYCON.net License Agreement	93
Figure 119: SYCON.net Customer Information	94
Figure 120: SYCON.net Setup Type	94
Figure 121: SYCON.net Start Installation	95
Figure 122: SYCON.net Installation Status	95
Figure 123: SYCON.net Installation Finish	96
Figure 124: Start the Installation for the SYCON.net Configuration Software	97
Figure 125: SYCONnet netX setup.exe - Run as Administrator	98
Figure 126: SYCON.net Setup Language	98
Figure 127: Preparing to Install SYCON.net	99
Figure 128: SYCON.net Installation Information	99
Figure 129: Notes About Major Changes in SYCON.net	100
Figure 130: SYCON.net License Agreement	100
Figure 131: SYCON.net Customer Information	101
Figure 132: SYCON.net Setup Type	101
Figure 133: SYCON.net Start Installation	102
Figure 134: SYCON.net Installation Status	102
Figure 135: SYCON.net Installation Finish	103
Figure 136: Start the Installation for the SYCON.net Configuration Software	104
Figure 137: SYCONnet netX setup.exe - Run as Administrator	105
Figure 138: SYCON.net Setup Language	105
Figure 139: Preparing to Install SYCON.net	106
Figure 140: SYCON.net Installation Information	106
Figure 141: Notes About Major Changes in SYCON.net	107
Figure 142: SYCON.net License Agreement	107
Figure 143: SYCON.net Customer Information	108
Figure 144: SYCON.net Setup Type	108
Figure 145: SYCON.net Start Installation	109
Figure 146: SYCON.net Installation Status	109
Figure 147: SYCON.net Installation Finish	110
Figure 148: Windows Control Panel - Add or Remove Programs	111
Figure 149: Windows – Add or Remove Programs	112
Figure 150: SYCON.net Confirmation Dialog	112
Figure 151: SYCON.net Uninstalling Progress	112
Figure 152: Start > Control Panel	113
Figure 153: Window Adjust your Computer's Settings	114
Figure 154: Control Panel - Uninstall or Change Programs	114

Appendix	190/194
Figure 155: Programs and Features	115
Figure 156: Windows Installer - Preparing to Remove	115
Figure 157: SYCON.net Uninstalling Progress	115
Figure 158: Start Screen Windows 8	116
Figure 159: Uninstall a program	116
Figure 160: Control Panel - Uninstall or Change Programs	117
Figure 161: Programs and Features	117
Figure 162: Windows Installer - Preparing to Remove	117
Figure 163: SYCON.net Uninstalling Progress	118
Figure 164: Start Screen Windows 10	119
Figure 165: Uninstall a program	120
Figure 166: Control Panel - Uninstall or Change Programs	120
Figure 167: Programs and Features	121
Figure 168: Windows Installer - Preparing to Remove	121
Figure 169: SYCON.net Uninstalling Progress	121
Figure 170: Start the Installation for the Slave Configuration Tool netX Configuration Tool	123
Figure 171: netX Setup and Configuration	124
Figure 172: netX Configuration Tool Setup Wizard	124
Figure 173: netX Configuration Tool Setup Wizard	125
Figure 174: Browse for Folder	125
Figure 175: Disk Space	126
Figure 176: Confirm Installation	126
Figure 177: netX Configuration Tool - Installation Progress	120
Figure 178: netX Configuration Tool - Installation complete	127
Figure 179: Start the Installation for the Slave Configuration Tool netX Configuration Tool	127
Figure 180: SYCONnet netX setup exe - Run as Administrator	120
Figure 181: netX Setup and Configuration	120
Figure 182: netX Configuration Tool Setup Wizard	120
Figure 183: netX Configuration Tool Setup Wizard	130
Figure 184: Browse for Folder	131
Figure 185: Disk Space	131
Figure 186: Confirm Installation	132
Figure 187: netX Configuration Tool - Installation Progress	132
Figure 188: netX Configuration Tool - Installation complete	132
Figure 189: Start the Installation for the Slave Configuration Tool netX Configuration Tool	134
Figure 190: SYCONnet netX setup exe - Run as Administrator	135
Figure 191: netX Setup and Configuration	135
Figure 192: netX Configuration Tool Setup Wizard	136
Figure 193: netX Configuration Tool Setup Wizard	136
Figure 194: Browse for Folder	137
Figure 195: Disk Space	137
Figure 196: Confirm Installation	137
Figure 190: Dominin Installation	138
Figure 198: netX Configuration Tool - Installation complete	130
Figure 199: Start the Installation for the Slave Configuration Tool netX Configuration Tool	140
Figure 200: SYCONnet netX setup exe - Run as Administrator	140
Figure 201: netX Setup and Configuration	141
Figure 202: netX Configuration Tool Setup Wizard	141
Figure 203: netX Configuration Tool Setup Wizard	1/2
Figure 204: Browse for Folder	142
Figure 205: Disk Snace	143
Figure 206: Confirm Installation	143
Figure 200. Configuration Tool - Installation Progress	144
rigare 201. herz coningulation 1001 - installation Progress	144

Appendix	191/194
Figure 208: netX Configuration Tool - Installation complete	145
Figure 209: Windows Control Panel - Add or Remove Programs	146
Figure 210: Windows – Add or Remove Programs	147
Figure 211: netX Configuration Tool Confirmation Box	147
Figure 212: netX Configuration Tool Uninstalling Progress	147
Figure 213: Start > Control Panel	148
Figure 214: Window Adjust your Computer's Settings	149
Figure 215: Control Panel - Uninstall or Change Programs	149
Figure 216: Programs and Features	150
Figure 217: Windows Installer - Preparing to remove	150
Figure 218: netX Configuration Tool Uninstalling Progress	150
Figure 219: Start Screen Windows 8	151
Figure 220: Uninstall a program	151
Figure 221: Control Panel - Uninstall or Change Programs	152
Figure 222: Programs and Features	152
Figure 223: Windows Installer - Preparing to remove	152
Figure 224: netX Configuration Tool Uninstalling Progress	153
Figure 225: Start Screen Windows 10	154
Figure 226: Uninstall a program	155
Figure 227: Control Panel - Uninstall or Change Programs	155
Figure 228: Programs and Features	156
Figure 229: Windows Installer - Preparing to remove	156
Figure 230: netX Configuration Tool Uninstalling Progress	156
Figure 231: Slot Number (Card ID) in the cifX Device Driver Setup	180
Figure 232: Slot Number (Card ID) in the cifX Device Driver Setup, "SlotNr" selected	181
Figure 233: Slot Number (Card ID) in the Configuration Software SYCON.net.	181
Figure 234: Activating DMA Mode in the cifX Device Driver Setup	182
Figure 235: Click 'Hardware and Sound'	184
Figure 236: Click 'Change when the computer sleeps'	184
Figure 237: Click 'Change advanced power settings'	185
Figure 238: Click 'Change settings that are currently unavailable'	185
Figure 239: Set ,Link State Power Management' to 'Off'	186

10.2 List of Tables

Table 1: List of Revisions	5
Table 2: Reference on Driver and Software Table 3: Where the Driver Setup is to be found?	6 19
Table 5: PC Cards cifX PCI Express	183

10.3 Glossary

cifX

Communication InterFace based on netX

cifX TCP/IP Server

cifX TCP Server.exe

Program for the remote diagnostics via Ethernet.

Name: cifX TCP/IP Server for SYCON.net

User Interface: TCP/IP Server for cifX

netX

networX on chip, Hilscher network communication controllers

netX Configuration Tool

The netX Configuration Tool allows users to operate cifX or netX based devices in different networks. Its graphical user interface serves as a configuration tool for the installation, configuration and diagnosis of the devices.

PC Card cifX

Communication Interfaces of the cifX product family of Hilscher on the basis of the communication controller netX 100:

for the Real-Time Ethernet systems

- EtherCAT
- EtherNet/IP
- Open-Modbus/TCP
- POWERLINK
- PROFINET IO
- Sercos
- VARAN

- and for the fieldbus systems
- PROFIBUS DP
- PROFIBUS MPI
- CANopen
- DeviceNet
- AS-Interface
- CC-Link

as Communication Interface netX with PCI Bus

- PCI (CIFX50),
- PCI Express (CIFX 50E),
- Low Profile PCI Express (CIFX 70E, CIFX 100EH-RE\CUBE*),
- Compact PCI (CIFX80),
- Mini PCI (CIFX90),
- Mini PCI Express (CIFX 90E),
- PCI-104 (CIFX 104C)

and as Communication Interface netX with ISA Bus

PC/104 (CIFX 104).

*only Real-Time Ethernet

Real-Time Ethernet (Industrial Ethernet) is an extension of the Ethernet networking technology for industrial purposes with very good real-time features and performance. There is a variety of different Real-Time Ethernet systems on the market which are incompatible with each other. The most important systems of these are

- EtherCAT
- EtherNet/IP
- Ethernet POWERLINK
- Open Modbus/TCP
- PROFINET
- Sercos
- VARAN

TCP/IP

Transport Control Protocol/Internet Protocol connection-orientated, secure transfer protocol as basis for the Internet-protocols

10.4 Contacts

Headquarters

Germany

Hilscher Gesellschaft für Systemautomation mbH Rheinstrasse 15 65795 Hattersheim Phone: +49 (0) 6190 9907-0 Fax: +49 (0) 6190 9907-50 E-Mail: info@hilscher.com

Support Phone: +49 (0) 6190 9907-99 E-Mail: de.support@hilscher.com

Subsidiaries

China

Hilscher Systemautomation (Shanghai) Co. Ltd. 200010 Shanghai Phone: +86 (0) 21-6355-5161 E-Mail: info@hilscher.cn

Support

Phone: +86 (0) 21-6355-5161 E-Mail: <u>cn.support@hilscher.com</u>

France

Hilscher France S.a.r.l. 69500 Bron Phone: +33 (0) 4 72 37 98 40 E-Mail: info@hilscher.fr

Support

Phone: +33 (0) 4 72 37 98 40 E-Mail: <u>fr.support@hilscher.com</u>

India

Hilscher India Pvt. Ltd. Pune, Delhi, Mumbai Phone: +91 8888 750 777 E-Mail: <u>info@hilscher.in</u>

Italy

Hilscher Italia S.r.I. 20090 Vimodrone (MI) Phone: +39 02 25007068 E-Mail: <u>info@hilscher.it</u>

Support Phone: +39 02 25007068 E-Mail: <u>it.support@hilscher.com</u>

Japan

Hilscher Japan KK Tokyo, 160-0022 Phone: +81 (0) 3-5362-0521 E-Mail: info@hilscher.jp

Support

Phone: +81 (0) 3-5362-0521 E-Mail: jp.support@hilscher.com

Korea

Hilscher Korea Inc. Seongnam, Gyeonggi, 463-400 Phone: +82 (0) 31-789-3715 E-Mail: info@hilscher.kr

Switzerland

Hilscher Swiss GmbH 4500 Solothurn Phone: +41 (0) 32 623 6633 E-Mail: <u>info@hilscher.ch</u>

Support Phone: +49 (0) 6190 9907-99

E-Mail: <u>ch.support@hilscher.com</u>

USA

Hilscher North America, Inc. Lisle, IL 60532 Phone: +1 630-505-5301 E-Mail: info@hilscher.us

Support

Phone: +1 630-505-5301 E-Mail: <u>us.support@hilscher.com</u>