



Operating instruction manual
Hilscher License Manager
Description of software licensing
V1.1.x.x

Hilscher Gesellschaft für Systemautomation mbH
www.hilscher.com

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1 Introduction

1.1 About this document

This manual provides descriptions about the **Hilscher License Manager** program.

By use of the licensing software **Hilscher License Manager**, you can check whether and which licenses are available on your device. Required licenses, you need to order at the the Hilscher customer center or sales department. For licensing, you need to provide a license request by e-mail, fax or phone using the **Hilscher License Manager**. Via a link in the reply e-mail you then can download the license from the server and to activate the license you need to transfer the license file to your device.



Important:

Before the actual licensing process comprising the steps

- license request by e-mail, fax or phone,
 - download the license from the server and
 - Transmission of the license to the device (activation),
- you must order the license chargeable at the Hilscher customer center or sales department using the part number .
-

1.1.1 Online help

The **Hilscher License Manager** contains an integrated online help facility.

- To open the online help, click on **Help** or press **F1**.

1.1.2 List of revisions

Index	Date	Version	Component	Revisions
1	14-04-08	V1.0.x.x	Hilscher.LicenseManager	All sections created.
2	15-03-09	V1.0.x.x	Hilscher.LicenseManager	Descriptions to the license request for the upgrade for the "PROFINET IO event detection" added. Revision concerning the separation of the steps 1. Ordering the license at the customer center (commercial management) and 2. Software licensing (license request, downloaded from the server and activating in the device).

Table 1: List of revisions

1.1.3 Conventions in this manual

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

Notes



Important:

<important note you must follow to avoid malfunction>



Note:

<general note>



<note where to find further information>

Instructions

1. Operation purpose
2. Operation purpose
 - Instruction

Results

↻ Intermediate result

⇒ Final result

Within this manual the positions ① to ②⑦ refer to the **Hilscher License Manager** pane, as shown in figure *Hilscher License Manager* in section *Overview* [▶ page 10].

The positions ① to ⑨ refer to the figure *Example: E-Mail License request (example netANALYZER)* in section *by E-Mail* [▶ page 20] respectively to the figure *Example: netX License Order Form (example netANALYZER)* in section *By fax or phone* [▶ page 21].

1.2 Legal notes

1.2.1 Copyright

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1.2.2 Important notes

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

We reserve the right to change our products and their specification as well as related user manuals, accompanying texts and documentation at all times and without advance notice, without obligation to report the change. Changes will be included in future manuals and do not constitute any obligations. There is no entitlement to revisions of delivered documents. The manual delivered with the product applies.

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

1.2.3 Exclusion of liability

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

It is strictly prohibited to use the software in the following areas:

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

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

1.2.4 Warranty

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

1.2.5 Export regulations

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

1.2.6 Registered trademarks

Windows® XP, Windows® Vista, Windows® 7 and Windows® 8 are registered trademarks of Microsoft Corporation.

EtherCAT® is a registered trademark and a patented technology of Beckhoff Automation GmbH, Verl, Federal Republic of Germany, formerly Elektro Beckhoff GmbH.

PROFINET® is a registered trademark of PROFIBUS & PROFINET International (PI), Karlsruhe.

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

1.3 System and software requirements

For the **Hilscher License Manager** program the system and software requirements listed below are valid:

System requirements

- Free disk space: approx. 3.5 MByte
- DVD ROM drive
- RAM: min. 512 MByte, recommended 1024 MByte
- Graphic resolution: min. 1024 x 768 pixel
- Keyboard and Mouse

Restriction

Touch screen is not supported.

Software requirements

Operating system:

- Microsoft Windows® XP with Service Pack 3
- Microsoft Windows® Vista with Service Pack 2
- Microsoft Windows® 7
- Microsoft Windows® 8

Additional software requirements:

- Microsoft .NET Framework 4.0 (*dotNetFx40_Full_x86_x64.exe*)
- Administrator privilege required for installation
- The driver for your device must be installed.

1.4 Install Hilscher License Manager

The setup for the **Hilscher License Manager** program is provided on the product DVD with the software and the documentation for your device.



For a detailed description of how to install the **Hilscher License Manager** program, refer to the installation instructions **Software installation** for your device.



Note:

The product DVD for your device is included in the scope of delivery for your device. Updates to the product DVD, you can download as a ZIP file from the page www.hilscher.com (under **Products** directly with information about your product) .

For installation, follow these basic steps:

- Insert product DVD (if available) or double click the *.exe file in the root directory of the DVD.
- In the autostart menu select **Install Software**.
- In the installation dialog for the **Hilscher License Manager** program select **Install**.
- Check **I accept the terms in the License agreement**.
- Click **Apply**.
- Alle Applikationen schließen und Abfrage mit **OK** beantworten.
- Answer Windows safety query by **Yes**.
- The installation runs.
- Click **Finish**.

2 Hilscher License Manager

2.1 Overview

➤ Open the **Hilscher License Manager** via **Start**.

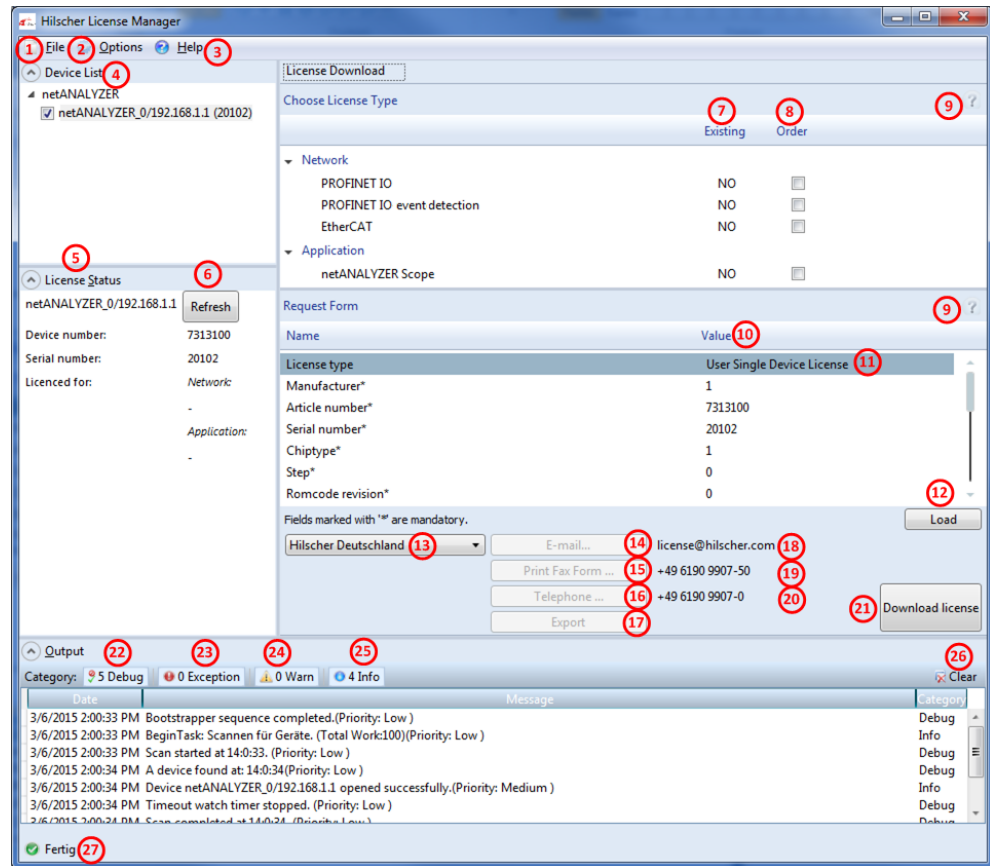


Figure 1: Hilscher License Manager (Example netANALYZER)

In the **Hilscher License Manager** pane you can:

- ① exit the **Hilscher License Manager** program,
- ② change the user interface language,
- ③, ⑨ access **Help** and **Info**,
- ④ select your device,
- ⑤, ⑥ read the license status or manually read it from the device,
- ⑦ verify, which licenses are present in the device,
- ⑧ to ⑳ Set license request by e-mail, fax or phone,
- ㉑ Transfer license to the device,
- ㉒ to ㉔ Display, filter or delete messages,
- ㉕ read the status of the Hilscher license manager.

2.2 Which licenses are present in the device?

In the **Hilscher License Manager** window under **Device List** you can select your device and under **License Status** you can check, which licenses are already present in your device.

To determine which licenses exist in the device and which one you need to order in addition,

1. First select the device and
2. then verify the license status and the license type.

2.2.1 Selecting the device

In the **Hilscher License Manager** window under **Device List** you can select the device.

- Under **Device List** ④ select the device.

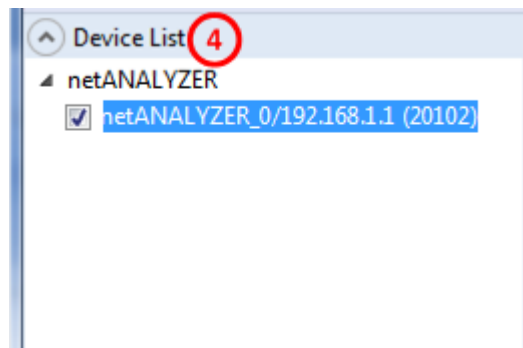


Figure 2: Device List (Example netANALYZER)

- In the **Hilscher License Manager** window, all details under **License Status**, **License Type** or **Request Form** will appear depending on the selected device (display of device-related data).

2.2.2 Verifying license status and license type

In the **Hilscher License Manager** window you can verify, which licenses are activated in the selected device.

License status

Under **License Status** ⁵ only those licenses are displayed which are existent in the selected device.

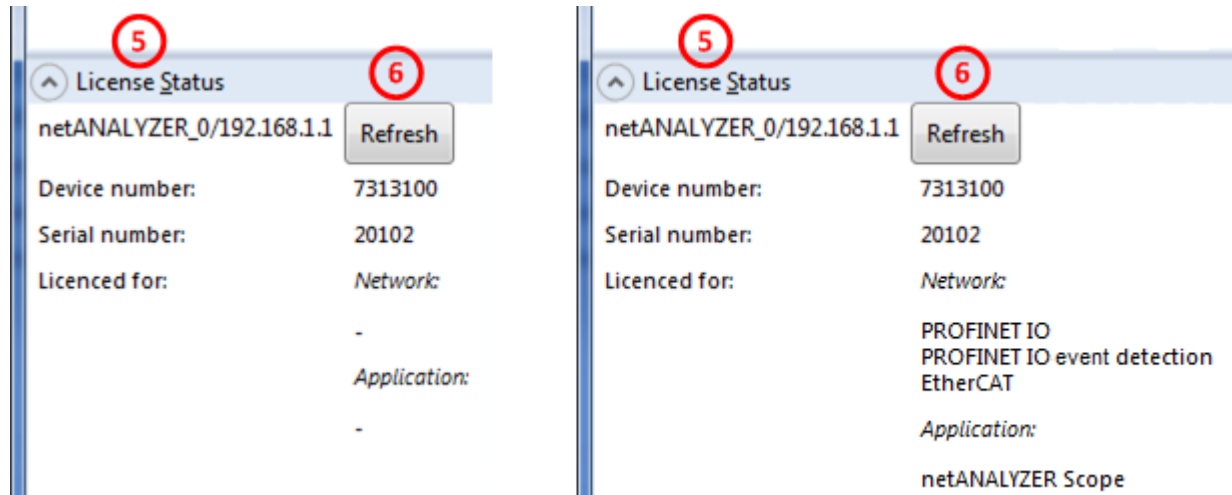


Figure 3: License Status (Exmaple netANALYZER: Left side - no license loaded, Right side - licenses loaded)

The following ordering data are read from the device and displayed under **License Status**:

- Name for the device
- Article number (Part number)
- Serial number
- Licenses for networks
The licenses listed under *Networks* are licenses for software components of the analysis software netANALYZER Scope responsible for PROFINET and EtherCAT protocol-specific data interpretation.
- Licenses for applications
The license 'netANALYZER Scope' is the license for the analysis software 'netANALYZER Scope'.

Via **Refresh** ⁶ you can read out the license status data from the device newly.

License type

Under Choose **License Type** > **Existing** ⁷ you also can verify which licenses are existent in the device:

Choose License Type			⁷ Existing	⁸ Order
▼ Network				
	PROFINET IO	NO		☐
	PROFINET IO event detection	NO		☐
	EtherCAT	NO		☐
▼ Application				
	netANALYZER Scope	NO		☐

Figure 4: License Type (Exmaple netANALYZER, no license loaded)

Choose License Type			⁷ Existing	⁸ Order
▼ Network				
	PROFINET IO	YES		☐
	PROFINET IO event detection	NO		☐
	EtherCAT	YES		☐
▼ Application				
	netANALYZER Scope	YES		☐

Figure 5: License Type (Exmaple netANALYZER, licenses loaded)

The column **Existing** ⁷ indicates which licenses are present in the device.

Yes = License is present in the device.

No = License is not present in the device.

Available licenses

For recording and analyzing data using the netANALYZER hardware (card or portable device) together with the analysis software netANALYZER Scope the licenses listed below are available:

- **Software licenses for networks**
PROFINET IO for recording and analyzing data from PROFINET networks,
PROFINET IO event detection for recording and analyzing the time course of the PROFINET IO events from PROFINET networks (for earlier netANALYZER Scope license packages available as an additional upgrade),
EtherCAT for recording and analyzing data from EtherCAT networks.
- **Licenses for applications**
netANALYZER Scope for recording and analyzing data from EtherCAT and PROFINET networks.

2.3 How do I request my license?

To get your license you need to send a license request (or licensing request). Proceed as follows:

1. Select the required licenses (refer to *Selecting license* [▶ page 14]).
2. Fill out the request form (refer to section Fill out request form).
3. Submit license request, (refer to section *Submitting license request* [▶ page 19]).



Note:

The software licenses for your device you need to acquire. When ordering a license you are liable to pay costs.

2.3.1 Selecting licenses

For your netANALYZER hardware (card or portable device) together with the analysis software netANALYZER Scope you need software licenses for *Networks* and / or *Applications*. In the window **Hilscher License Manager** under **License Type** you can select those licenses.

	Existing	Order
Network		
PROFINET IO	NO	☐
PROFINET IO event detection	NO	☐
EtherCAT	NO	☐
Application		
netANALYZER Scope	NO	☐

Figure 6: License Type (Example netANALYZER, no license loaded)

1. Selecting licenses for networks:

➤ Under **Network** > **Order** ⑧ check the licenses you need for networks.

Currently are available:

- PROFINET IO
- PROFINET IO event detection
- EtherCAT

2. Selecting licenses for applications:

➤ Under **Application** > **Order** ⑧ check the licenses you need for applications.

Currently is available:

- neANALYZER Scope

2.3.2 Selecting upgrade



Note:

Currently for earlier netANALYZER Scope licenses the license for **PROFINET IO event detection** is provided as an upgrade.

If and which licenses are present in your device you can see in the window **Hilscher License Manager** you at the right side under **License Type**.

- If a license already exists in your device, this is indicated in the column **Existing** ⁷ with **YES**.
- If a single license available for netANALYZER Scope is not yet present in your device, this is indicated in the column **Existing** ⁷ with **NO**.

Choose License Type		
	⁷ Existing	⁸ Order
▼ Network		
PROFINET IO	YES	☐
PROFINET IO event detection	NO	☒
EtherCAT	YES	☐
▼ Application		
netANALYZER Scope	YES	☐

Figure 7: License Type (Example netANALYZER, several licenses loaded)

- If you want to order an upgraded license or you want to submit the license request for the upgrade, compare in the window **Hilscher License Manager** under **License Type**,
 - the types of licenses which already exist in your device (in the column **Existing**: **YES** value)
 - to those you are still missing (in the column **Existing**: **NO** value).
- To request for the delivery of the license upgrade, check the missing license type in the column **Order** ⁸ and continue with the steps for your license request.



Note:

If you are not sure which licenses you need to select, set all checkmarks in the **Order** ⁸ column.

2.3.3 Fill out request form

1. Device Information
The *Device information* required for the request are read out from the device and automatically filled into the order form.
2. License type and address data
 - Under **Request Form** you must enter the license type and the address data (refer to section *License type and address data* [▶ page 16]).

2.3.3.1 Data from the device

The following data are read from the device and displayed under **Request Form**:

- Manufacturer
- Article number (Part number)
- Serial number
- Chiptype
- Step (chip revision)
- Romcode revision
- Checksum (checksum of the device data)

The fields in the column **Value** ¹⁰ which can not be edited show the data read from the device:

Request Form ?	
Name	Value ¹⁰
Manufacturer*	1
Article number*	7313100
Serial number*	20102
Chiptype*	1
Step*	0
Romcode revision*	0
Checksum*	B

Figure 8: Request Form, please fill out / Device Data (Exmaple netANALYZER)

These data read from the device automatically appear in the request form for your license request.

2.3.3.2 License type and address data

For your license request you must enter the following data to the **Hilscher License Manager** pane:

1. License Type

Request Form	
Name	Value 10
License type	User Single Device License 11
Manufacturer*	User Single Device License

Figure 9: Request form, please fill out / License type

- Select the license type under **Request Form, please fill out > Value 10**.
- 2. Mandatory fields in the request form (editable fields):
 - Enter all mandatory fields under **Request Form, please fill out > Value 10** (in the figure marked with*).
 - First name
 - Surname
 - E Mail* (address, to which the license download link shall be send.)
 - Telephone
 - Company
 - Address
 - Country
 - City, State, Zip

Request Form	
Name	Value 10
First name*	John
Surname*	Doe
E-Mail*	user@doe.com
Telephone*	0011 223344-55
Fax	0011 223344-100
Customer number	123456789
Company*	Doe Example LTD
Address*	Chicago Street 3000
Country*	United States
City, State, Zip*	Detroit, MI 48777
Order number	987654321
Value added tax identification number	test
Fields marked with '*' are mandatory.	
Load 12	

Figure 10: Request form, please fill out / Mandatory data

- 3. Optional information in the request (editable fields):
 - Under **Request Form, please fill out > Value 10** enter all fields for the additional data, which are not mandatory.
 - Fax
 - Customer Number

- Order Number
 - Value added tax identification number
4. Load:
- Click **Load**  to download the license information data stored in an XML file. (The data must have been saved before via **Export** .)

2.3.4 Submitting license request

**Note:**

You must acquire the software license for your device at the Hilscher customer center or sales department. When ordering a license you are liable to pay costs.

In the **Hilscher Licens Manager** window you must induce that your license request is sent. Therefore:

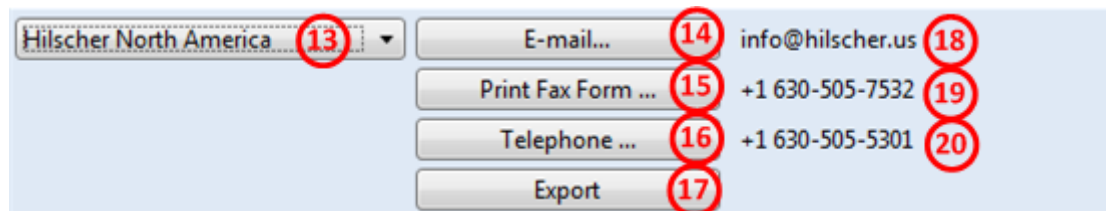


Figure 11: Selecting the subsidiary / forwarding license request / contacts

1. Select the *subsidiary* (13) to which your license request should be sent.
2. Sending the license request:
 - by **E-Mail** (14),
 - or by **fax** (15)
or by **phone** (16),
 - or in a **file** (17).

The **Contact Data** of the selected subsidiary are displayed under the positions (18), (19) and (20).

2.3.4.1 by E-Mail

You can submit your license request by e-mail.

➤ Click **E-mail...** ⁽¹⁴⁾.

⇒ The E-mail **License request** opens:

The screenshot shows an email composition window titled 'License request'. The left pane contains the email header and body. The right pane shows a summary of the license request data.

Email Header:

- To: ^(a) info@hilscher.us
- Cc:
- Subject: License request
- Attachments: LicenseRequest_f62f7738-f91c-4b59-b3db-1d501492e23a.xml (5 KB) ^(b)

Email Body:

```
=====
netX License Order
=====

Company: Hilscher North America, Inc. (c)

Address: Suite 100, 2443 Warrenville RoadLisle, IL 60532USA
Fax: +1 630-505-7532

Licensee Information (d)
-----
First Name: John
Surname: Doe
e-Mail: user@doe.com
Telephone: 0011 223344-55
Fax: 0011 223344-100
Customer Number: 123456789
Company: Doe LTD
Address: Chicago Street 3000
Country: United States
City Zip: Detroit, MI 48777
Order Number: 987654321
Tax Ident. Number: test
```

Summary Pane (Right):

- License Type ^(e): User Single Device License
- Device Information ^(f):
 - Manufacturer: 1
 - Device Number: 7311100
 - Serial Number: 20021
 - Chip Type: 1
 - Step: 0
 - Romcode Revision: 0
 - License Flags 1: 0
 - License Flags 2: 0
- Ordered Licenses ^(g):
 - Network:
 - > PROFINET IO
 - > PROFINET IO event detection
 - > EtherCat
 - Application:
 - > netANALYZER Scope

Figure 12: Example: e-mail license request (example netANALYZER)

The e-mail **License request** contains:

- the **e-mail adresse** of the selected subsidiary **of the licensor** ^(a),
 - the automatically generated **XML file** ^(b) with a summary info of the **data for the license request** (example: *LicenseRequest_9c6cd407-1258-4d2d-9254-98b5d2f2cd6d.xml*)
 - the **address** of the selected subsidiary **of the Licensor** ^(c),
 - the **data of the licensee** ^(d),
 - the **License Type** ^(e),
 - the **Device Data** ^(f),
 - the data about the **requested licenses** ^(g).
- Forwarding the e-mail **License request**.
- ⇒ The license request by e-mail is complete.

2.3.4.2 By fax or phone

You can submit your license request by fax or phone.

➤ Click **Print Fax Form** ¹⁵ or **Telephone...** ¹⁶.

⇒ The summary of the **data for the license request** is opened in a browser window. For example:

LicenseRequest_ba0f3547-905d-45ac-8a12-b42aabf1349c.xml

netX License Order Form

Hilscher North America, Inc.
Suite 100, 2443 Warrenville Road

Lisle, IL 60532 ^c
USA
fax: +1 630-505-7532

Licensee Information ^d

<i>First Name:</i>	<i>John</i>
<i>Surname:</i>	<i>Doe</i>
<i>e-Mail:</i>	<i>user@doe.com</i>
<i>Telephone:</i>	<i>0011 223344-55</i>
<i>Fax:</i>	<i>0011 223344-100</i>
<i>Customer No:</i>	<i>123456789</i>
<i>Company:</i>	<i>Doe LTD</i>
<i>Address:</i>	<i>Chicago Street 3000</i>
<i>Country:</i>	<i>United States</i>
<i>City Zip:</i>	<i>Detroit, MI 48777</i>
<i>Order Number:</i>	<i>987654321</i>
<i>Tax Ident. Number:</i>	<i>test</i>

License Type ^e

User Single Device License

Device Information ^f

<i>Manufacturer:</i>	<i>1</i>
<i>Device Number:</i>	<i>7311100</i>
<i>Serial Number:</i>	<i>20021</i>
<i>Chip Type:</i>	<i>1</i>
<i>Step:</i>	<i>0</i>
<i>Romcode Revision:</i>	<i>0</i>
<i>License Flags 1:</i>	<i>0</i>
<i>License Flags 2:</i>	<i>0</i>

Ordered Licenses ^g

Network

- PROFINET IO
- PROFINET IO event detection
- EtherCAT

Application

- netANALYZER SCOPE

Date: _____

Signature: _____

Figure 13: Example: netX License Order Form (example netANALYZER)

**Note:**

If your browser does not display the data for the license request, check the safety settings of your system.

The form contains:

- the **address** of the selected subsidiary **of the Licensor** ^(c),
 - the **data of the licensee** ^(d),
 - the **License Type** ^(e),
 - the **Device information** ^(f),
 - the data about the **requested licenses** ^(g).
- Print the data form, sign it and send it by fax.
 - Use the Fax number ⁽¹⁹⁾, which is displayed after the subsidiary was selected in the **Hilscher License Manager** pane.

Or

- Keep ready the data form and communicate the order data via telephone.
 - Use the telephone number ⁽²⁰⁾, which is displayed after the subsidiary was selected in the **Hilscher License Manager** pane.
- ⇒ The license request by fax or phone is complete.

2.3.4.3 Via file export

If you are working on a process computer without e-mail client, you can export your data for the license request to a file, save the file to a removable disk and submit your license request manually via e-mail from a different PC.

- Click **Export License Request...** ⁽²⁰⁾.
 - The window **Browse For Folder** is displayed.
 - Choose for or create a new folder on a removable disk.
 - Save the automatically generated **XML file** (example: *[Name].xml*) with a summary info of the **request data** to this folder.
 - Send this file from a PC with an e-mail client manually via e-mail.
 - Therefore use an e-mail address, which is displayed after the subsidiary was selected in the **Hilscher License Manager** pane (see position ⁽¹⁴⁾ in figure *Selecting the subsidiary / forwarding license request / contact data* [▶ page 19]).
- ⇒ The license request by file export is complete.

2.4 How to get the license and transfer it to the device

**Note:**

License files can only be delivered via e-mail. The e-mail contains a link to download the license file.

On your license request, you will receive an e-mail with a **link to download the license file**. This link leads to a server PC on which the license file is provided. Using the received link you must save the license file on your PC and then transfer the license to your device. If your e-mail client is on another PC as the PC your device is connected to, you must save the license file for example, on a USB storage device.

**Note:**

The license is stored in the hardware. Your application must have access to the license information stored in your device in order you can use the full functional range of your licensed software.

How to proceed

1. Save the license file to a PC or a disk.
 - Click to the **Link to download the License File** in the e-mail.
 - Save the license file *.nxl to a PC or a removable disk.
2. Download the license file to the device.
 - Respectively connect the removable disk with the license file to the PC, which is connected to your device.
 - Click **Download License** ²¹ in the **License** pane in the configuration software.
 - The File selection window **Open** is displayed.
 - Therein select the license file *.nxl.

The name of the license file is as follows: *[current number]_[device number]_[serial number]_[acronym software application]_[acronym protocol1]_[acronym protocol2].nxl* (for example 0001_7311100_20021_PS_ECAT_PN.nxl)

- Click **Open**.
- The license file is transferred to the device.
- ⇒ After this the license is present in the device and is activated with the next device reset.
- To check whether the license has been activated, follow the steps in section *Which Licenses are present in the device?* [► page 11].

2.5 Options, help and info

2.5.1 User interface language

You can switch the user interface language from English (United States) to German (Germany).

- Therefore select under **Options > Language** the entry **Deutsch (Deutschland)**.

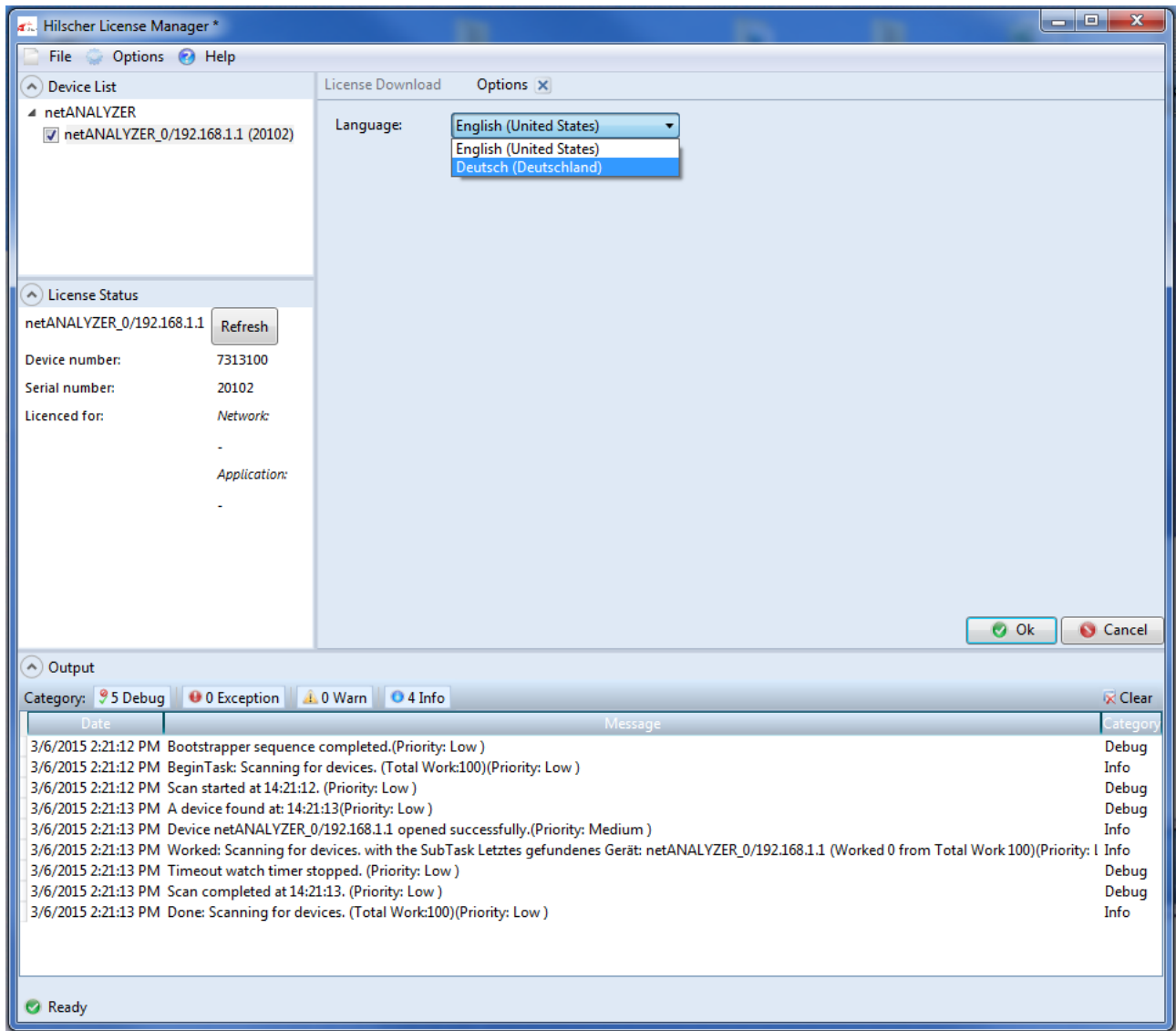


Figure 14: Hilscher License Manager > Options > Language

- Click **Ok**.
- ⇒ The user interface is displayed in the German language.



Note:

If not all elements of the user interface are displayed in the new language, close the **Hilscher License Manager** and open it again .

2.5.2 Help

The **Hilscher License Manager** program contains a built-in online help. To view the online help,

- click in the **Hilscher License Manager** window, click **Help > View Help**.
- ⇒ The online help is displayed.
- or press **F1**.
- ⇒ The online help for the page viewed appears.

2.5.3 About Hilscher License Manager



Figure 15: About Hilscher License Manager

In the dialog **About Hilscher License Manager** you find the **Hilscher License Manager Version** ① and you can access to the following windows:

- **Hilscher License Manager License Agreement** ②
- **Hilscher License Manager Support Information** ③
- **System Information** ④

In the system information (also known as msinfo32.exe) details appear about the hardware configuration of the computer, the computer components and the software, including drivers. For more information, refer to? > **Help Topics** in the **System Information** window.

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Glossary

EtherCAT	Ethernet for Control Automation Technology: communication system for Industrial Ethernet designed and developed by Beckhoff Automation GmbH, Verl, Germany
netANALYZER Scope	intelligent high level analysis software for recording and analyzing EtherCAT and PROFINET networks together with the netANALYZER hardware (card or portable device)
PROFINET	communication system for Industrial Ethernet designed and developed by PROFIBUS & PROFINET International (PI), which uses some mechanisms similar to those of the PROFIBUS field bus
PROFINET IO	PROFINET IO (Input - Output) has been created for the connection of remote peripheral to a controller
PROFINET IO event detection	parameter, which represents the events occurring at a given time on the bus. These are four types of events: alarm events, DCE RPC events, DCP events (ident request and ident OK) and other events, including predominantly missing frames.

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