



**Training Manual**  
**EtherNet/IP Scanner**  
**CIFX, COMX and netJACK - Configuration and Testing - Step by Step**

**Hilscher Gesellschaft für Systemautomation mbH**  
**[www.hilscher.com](http://www.hilscher.com)**

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# 1 Introduction

## 1.1 About this Training Manual

This document provides step-by-step instructions on how to commission and configure an EtherNet/IP Scanner (master) by using the *SYCON.net* configuration software. How to read input data and how to write output data by using the I/O monitor is described for the *SYCON.net* configuration software and the *cifX Test* auxiliary tool.

The procedures are exemplified by using a *cifX* PC card. They can, however, also be applied to the *comX* and *netJACK* communication modules.

## 1.2 Required Hardware and Software

Prerequisite for the described commissioning and configuration example is a proper installation of all necessary hardware and software components.

For the example given in this document, you need the following components:

### Hardware

- 1 x PC with standard equipment: monitor, keyboard, mouse, DVD drive, PCI slot
- 1 x CIFS 50-RE acting as Real-Time Ethernet master (requires master license)
- 1 x NXIO 50-RE Real-Time Ethernet slave with power supply unit
- 1 x CIFS 50-RE acting as Real-Time Ethernet slave
- 2 x Ethernet cable (CAT5)

### Software

- *SYCON.net* configuration software
- Driver for *cifX* PC card (*cifX Device Driver*)
- Auxiliary tools *cifX Test* and *cifX Setup* (included in the *cifX Device Driver* installation)
- *Ethernet Device Configuration* (included in the *SYCON.net* installation)



For details about how to install the necessary hardware and software components, please refer to the user manual of the respective product.

## 1.3 List of Revisions

Index	Date	Chapter	Revision
2	2012-11-23	all	created

## 2 General Procedure

Set up network	1.1	Create new project in <b>SYCON.net</b> .	<i>Note:</i> <i>Hardware has not been assigned yet.</i> <i>Firmware has not been loaded yet.</i> <i>Network has not been configured yet.</i>
	1.2	Insert Hilscher master device in network (e. g. <b>CIFX 50-RE</b> ).	
	1.3	If a non-Hilscher device is used as slave: import device description file first. Add slave to network (e. g. <b>NXIO 50-RE</b> ).	
	1.4	If a full-scale Hilscher slave device is used (e. g. <b>CIFX 50-RE</b> ), add also a Stand-Alone Slave.	
Assign hardware and load Firmware	2.1	Open <b>Configuration window</b> for <b>master</b> device.	<i>Note:</i> <i>Hardware has been assigned.</i> <i>Firmware has been loaded.</i> <i>Network has not been configured yet.</i>
	2.2	<b>Select driver</b> for access to the master device. Internal device driver → select CIFX Device Driver. External via Serial, USB or TCP/IP → select netX Driver.	
	2.3	Scan for connected hardware and <b>assign device</b> .	
	2.4	If PC cards are used: <b>Select and load Firmware</b> .	
Configure slave	3.1	Open <b>Configuration window</b> for <b>slave</b> device.	<i>Note:</i> <i>Slave has been configured in network.</i> <i>Real IP address has been set for slave by rotary switch.</i>
	3.2	Configure <b>Address</b> (e. g IP address). If a non-Hilscher slave is used: set real IP address, e. g. by rotary switch.	
	3.3	Configure <b>I/O data</b> , i.e. modules and lengths.	
Configure Hilscher Stand-Alone Slave	4.1	Open <b>Configuration window</b> for <b>Stand-Alone Slave</b> .	<i>Note:</i> <i>Hardware has been assigned to full-scale slave, firmware has been loaded and real IP address has been set.</i>
	4.2	<b>Assign hardware and load firmware</b> .	
	4.3	Configure <b>address, I/O data</b> . These must match the network configuration. <b>Set real IP address of the Hilscher slave device.</b> (e. g. by SYCON.net or Ethernet Device Configuration, etc.)	
	4.4	<b>Download configuration</b> to Stand-Alone Slave.	
Configure master	5.1	Open <b>Configuration window</b> for <b>master</b> .	<i>Note:</i> <i>Network has been completely configured and can be used.</i>
	5.2	Configure <b>Scanner address</b> , e. g. enter IP address.	
	5.3	Configure <b>IP addresses</b> of the slaves. These must match the real IP addresses of the slaves.	
	5.4	Configure <b>I/O data</b> . These must match the settings of the slaves.	
	5.5	Configure <b>Quick Connect</b> .	
	5.6	Configure <b>master and further settings</b> .	
	5.7	<b>Download configuration</b> to master.	
Diagnosis	6.1	Establish connection to master and open <b>Diagnosis</b> dialog.	<i>Note:</i> <i>Payload data is exchanged.</i>
	6.2	Use <b>General Diagnosis</b> to check state of the network.	
	6.3	Use <b>I/O Monitor</b> to test the communication.	
	6.4	Use <b>cifX Test</b> auxiliary tool to test the communication.	

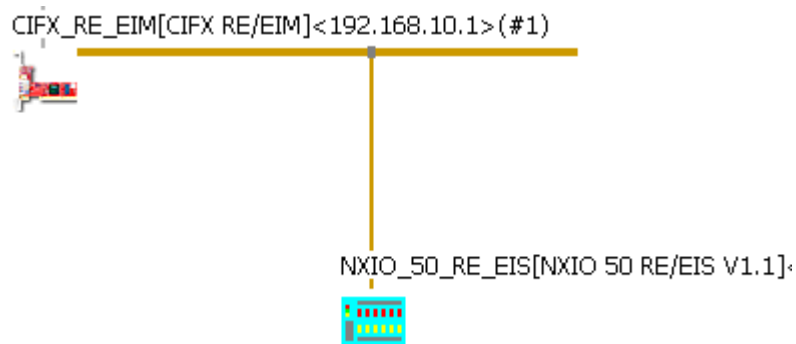
## 3 Network Setups

### 3.1 Setup 1: CIFX 50-RE with NXIO 50-RE

Setup 1 is a network consisting of a master and one slave.

**Master:** CIFX 50-RE\ML by Hilscher  
(flexible Real-Time Ethernet PCI card)

**Slave 1:** NXIO 50-RE by Hilscher  
(simple Real-Time Ethernet test slave)



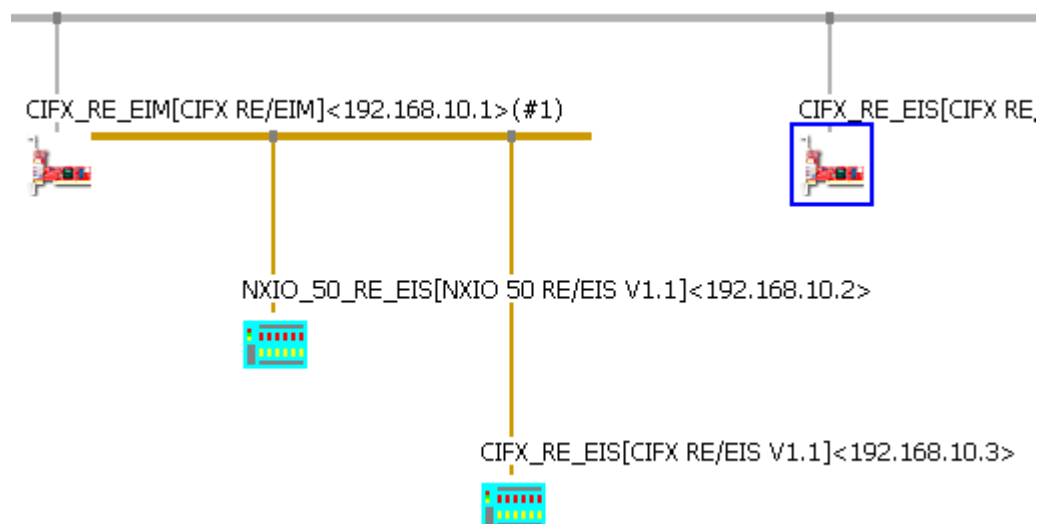
### 3.2 Setup 2: CIFX 50-RE Added as Second Slave

Setup 2 is a network consisting of a master and two slaves.

**Master:** CIFX 50-RE\ML by Hilscher  
(flexible Real-Time Ethernet PCI card)

**Slave 1:** NXIO 50-RE by Hilscher  
(simple Real-Time Ethernet test slave)

**Slave 2:** CIFX 50-RE by Hilscher  
(flexible Real-Time Ethernet PCI card)

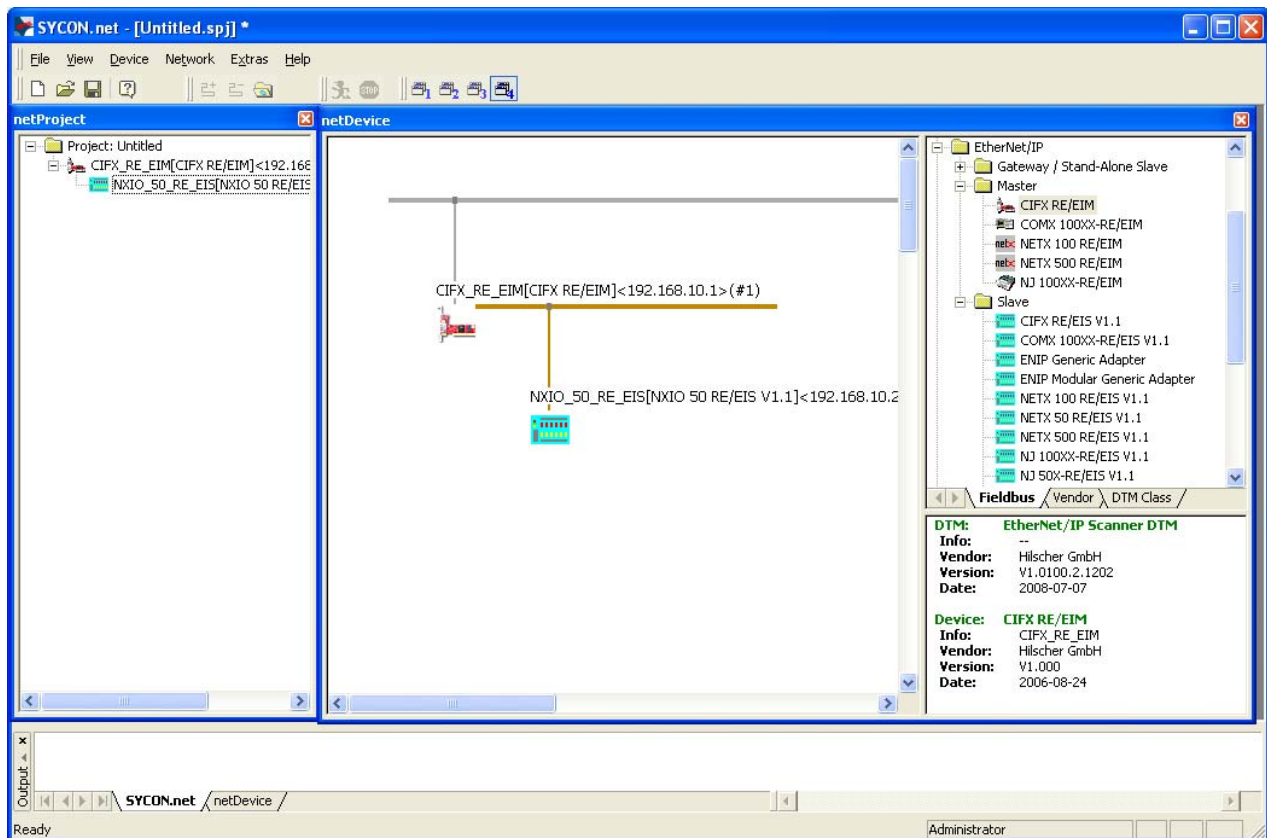


## 4 Step-By-Step Configuration

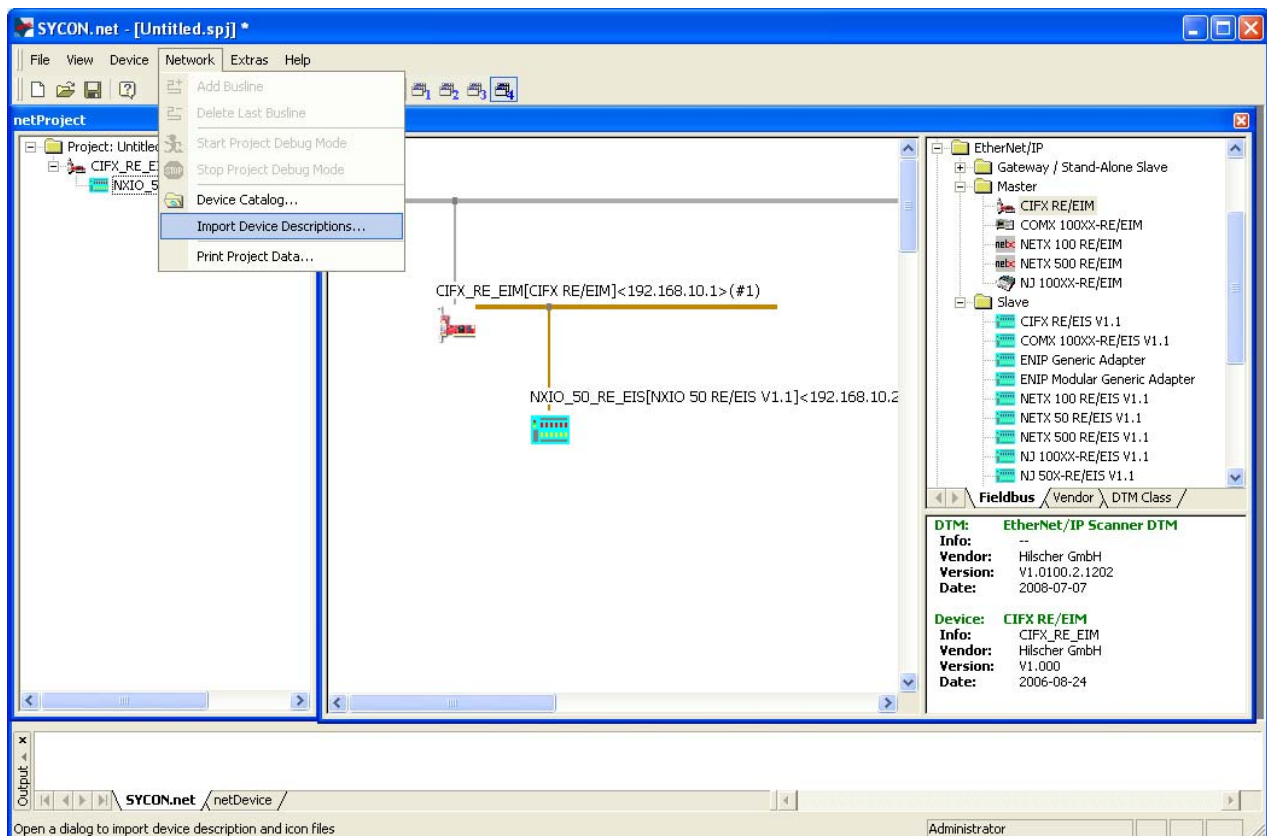
### 4.1 Setup 1: CIFS 50-RE with NXIO 50-RE

#### 4.1.1 Set Up Network

1. Create a new project in SYCON.net.
  - In SYCON.net, choose **File > New**.
2. Insert Hilscher EtherNet/IP Scanner device in network.
  - Select a **CIFS RE/EIM** from the **Device Catalog (Master)** and drag and drop it onto the upper line.
3. Add EtherNet/IP Adapter device to network.
  - Select a **NXIO 50-RE** from the **Device Catalog (Slave)** and drag and drop it onto the EtherNet/IP network line.

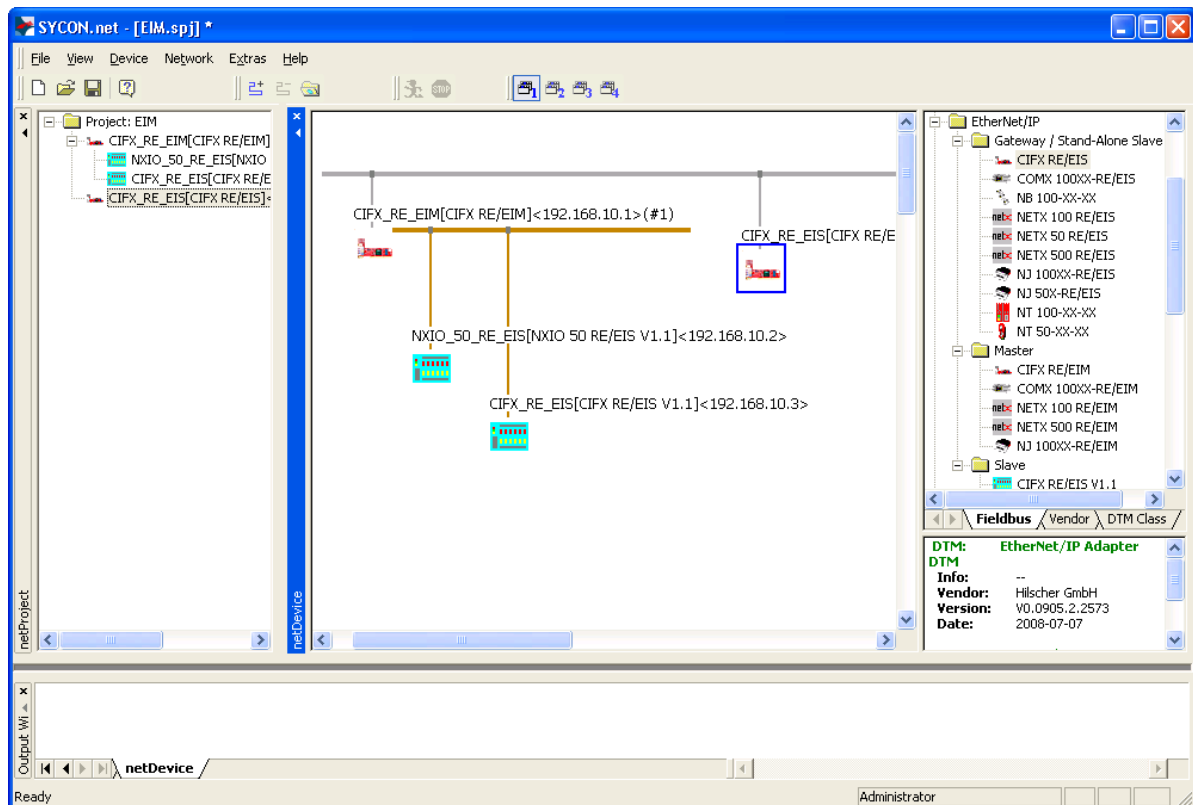


- If EtherNet/IP Adapter devices of other manufacturers are used, a device description file has to be imported first, so that this slave device will be displayed in the **Device Catalog**.
- To import the device description file, choose **Network > Import Device Descriptions...** in SYCON.net.



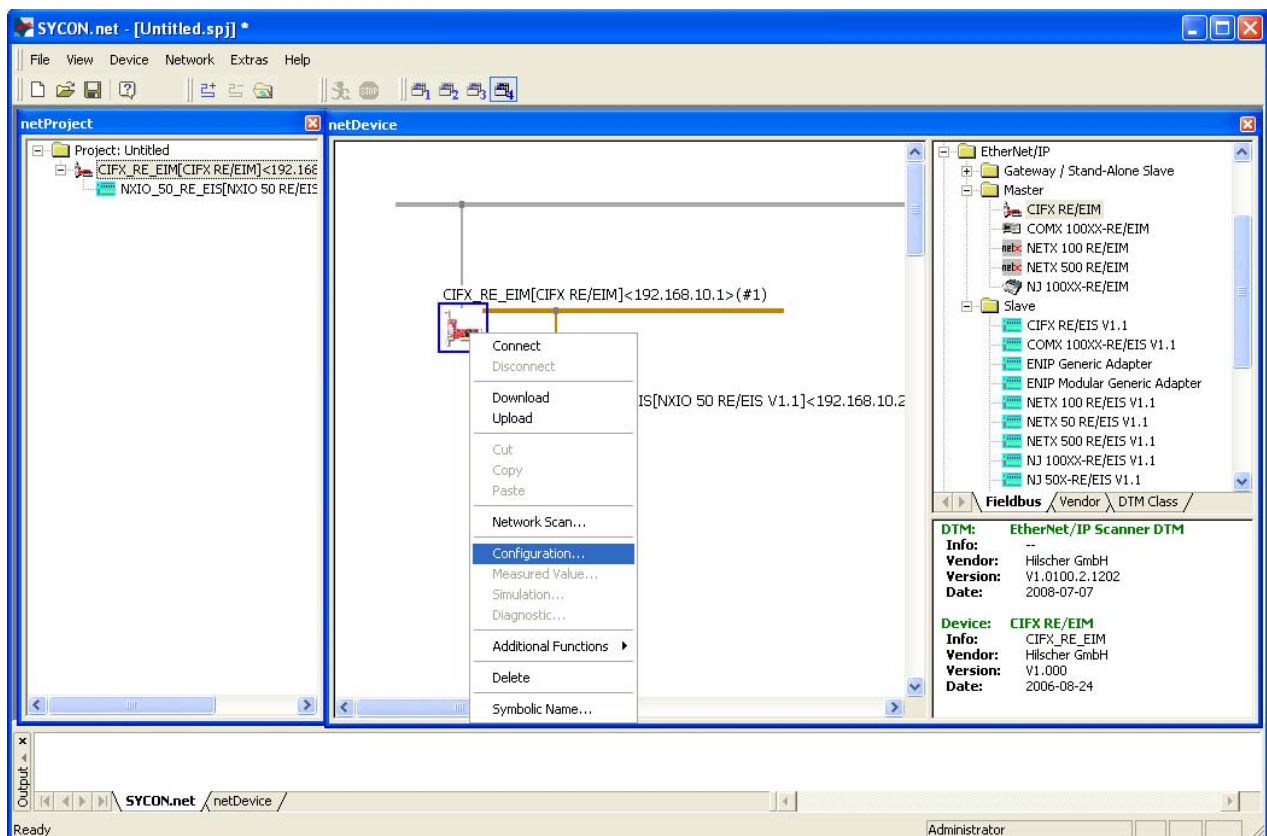
**Note:** Skip the following step, because it does not need to be performed for Setup 1.

4. If a full-scale Hilscher EtherNet/IP Adapter device is used, place also the corresponding Stand-Alone Slave in the network.
  - Select a **CIFX RE/EIS** from the **Device Catalog (Gateway/Stand-Alone-Slave)** and drag and drop it onto the EtherNet/IP network line.



#### 4.1.2 Assign Hardware and Load Firmware

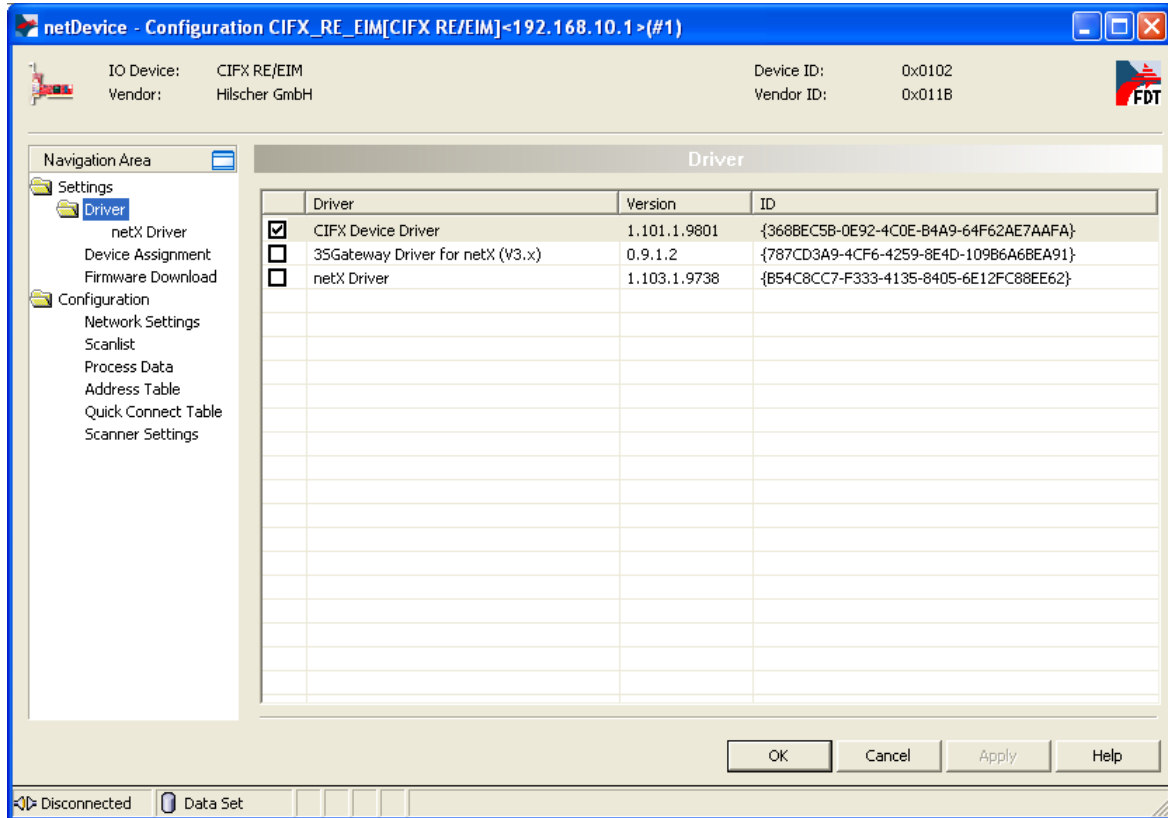
1. Open Configuration window for **CIFS RE/EIM** master.
  - Right-click on the master device to open the context menu, then choose **Configuration...**



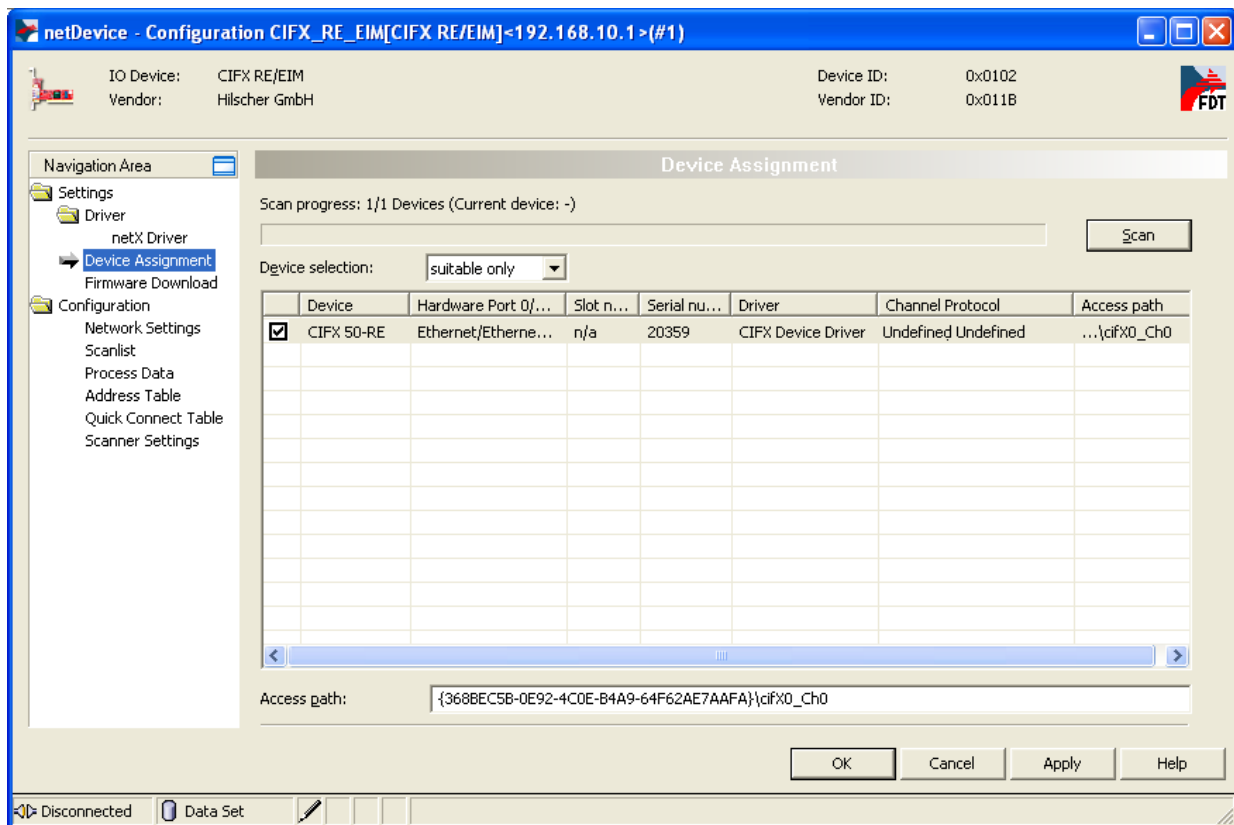


2. Select driver for accessing the master device.
  - In the **Navigation Area**, choose **Settings** > **Driver** and select the appropriate driver.

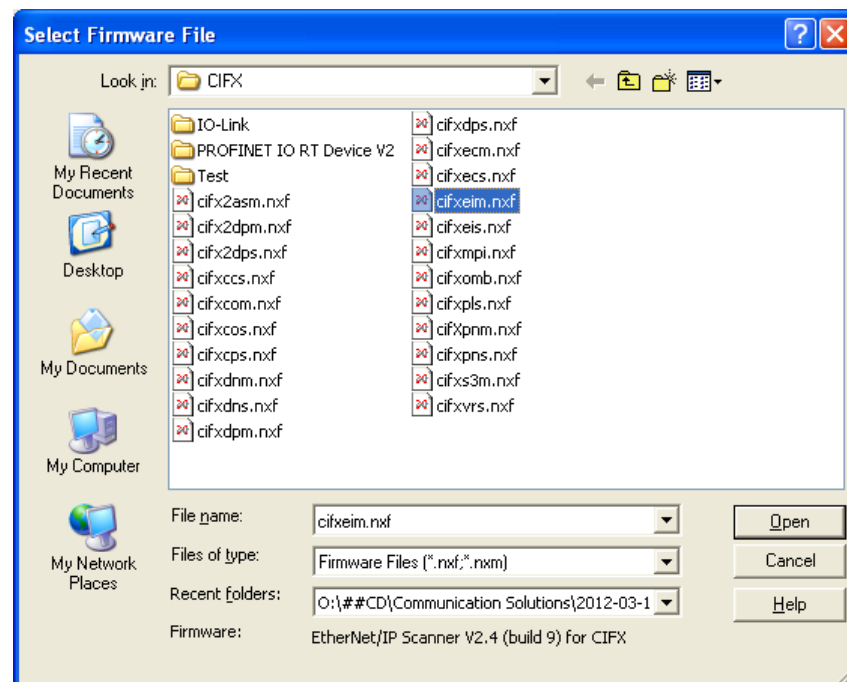
In case of access via RS-232, USB or TCP/IP – i. e. via netX Driver – additional configurations are possible under **Settings** > **Driver** > **netX Driver**.

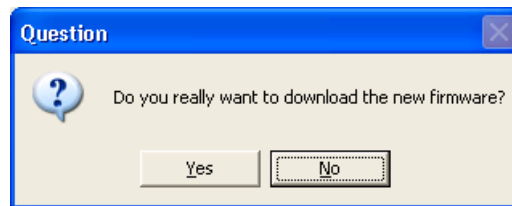


3. Scan for connected hardware and assign device.
  - In the **Navigation Area**, choose **Settings** > **Device Assignment** and scan for available Hilscher devices. Click **Scan** button.
  - Choose the **CIFX 50-RE** device by activating the check box ☒.

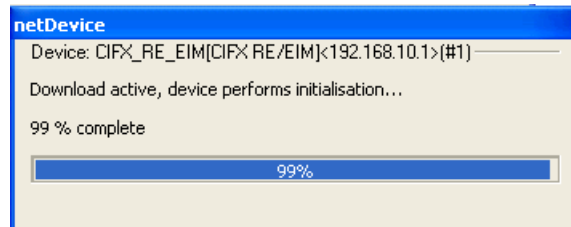


4. In case of PC cards: Select and load firmware.
  - In the **Navigation Area**, choose **Settings > Firmware Download**, then select the appropriate firmware: **cifxeim.nxf**.
  - Click **Open** button to load firmware into the PC card.





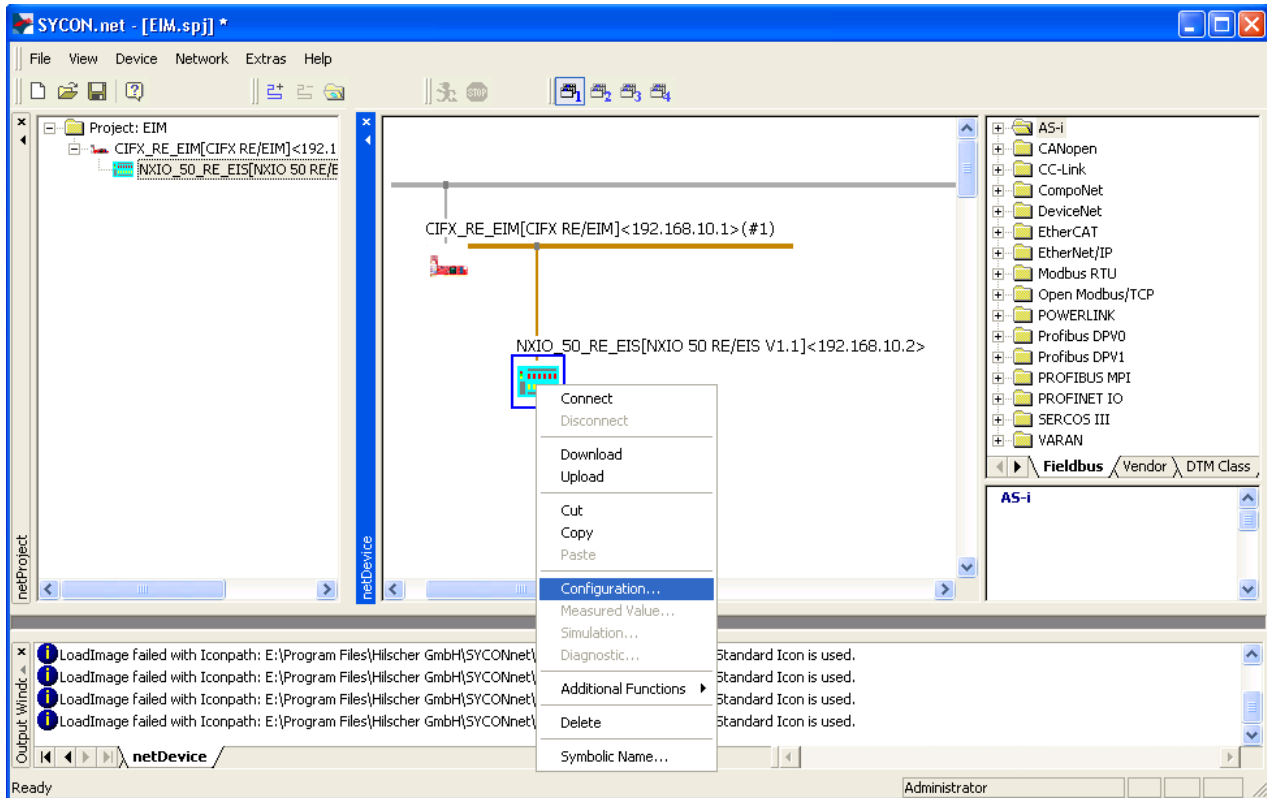
- Click **Yes** button to start the download.



**Note:** Click **OK** to finally confirm the assignment of the PC card and the download of the firmware.

### 4.1.3 Configure Slave

1. Open Configuration window for **NXIO 50-RE** slave.
  - Right-click on the slave device to open the context menu and choose **Configuration**.



2. Configure address.
  - **Set the real IP address of the NXIO 50-RE either via DHCP server (rotary switch at NXIO) or by using the Ethernet Device Configuration tool (e. g. 192.169.19.2). You will find details about this on the following pages.**



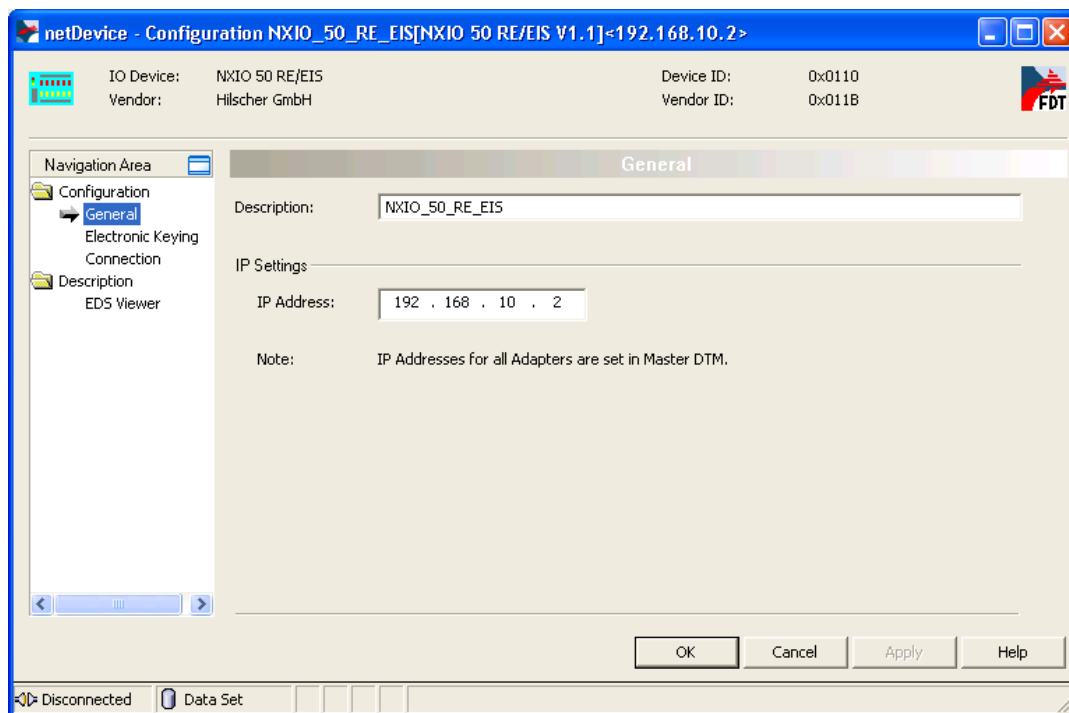
**Note:** The IP address of the NXIO 50-RE in the network which is displayed under **Configuration > General** can be adjusted via the master.



**Note:** In EtherNet/IP, unequivocal addressing takes place via the IP address. The IP address can either be set permanently by the user, or it can be received from a DHCP server.

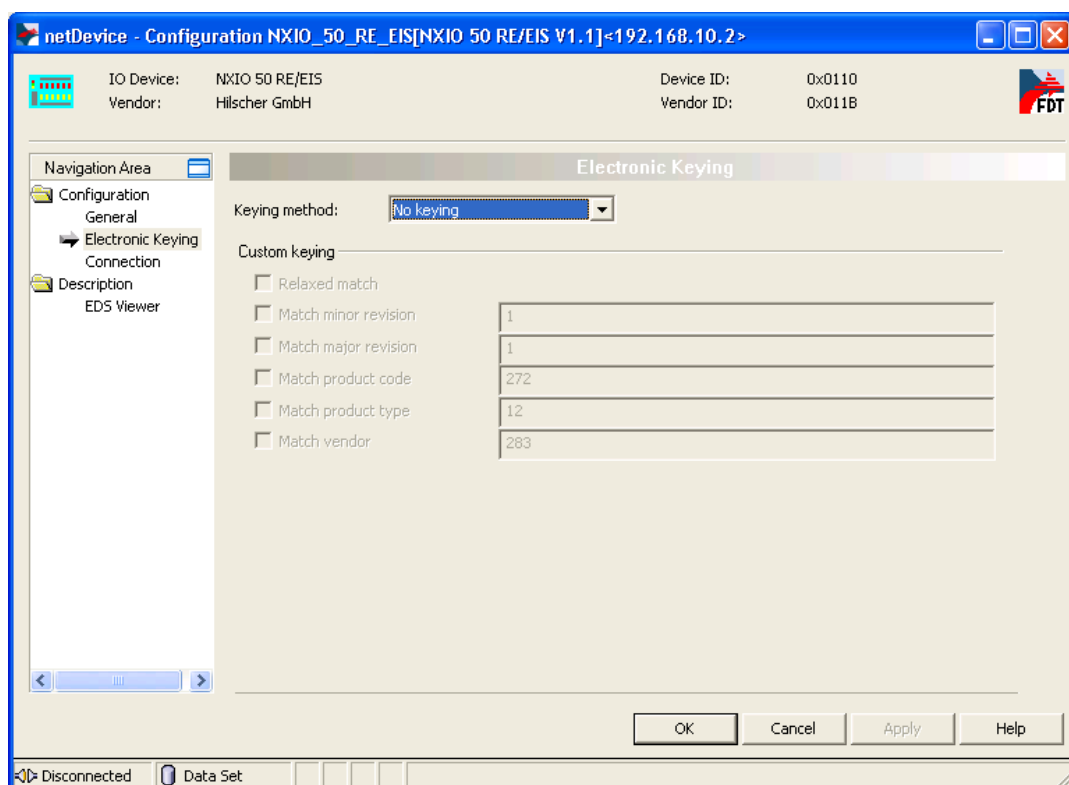


**Note:** The real IP addresses of Hilscher slaves are set via Stand-Alone Slave or by using the Ethernet Device Configuration tool.



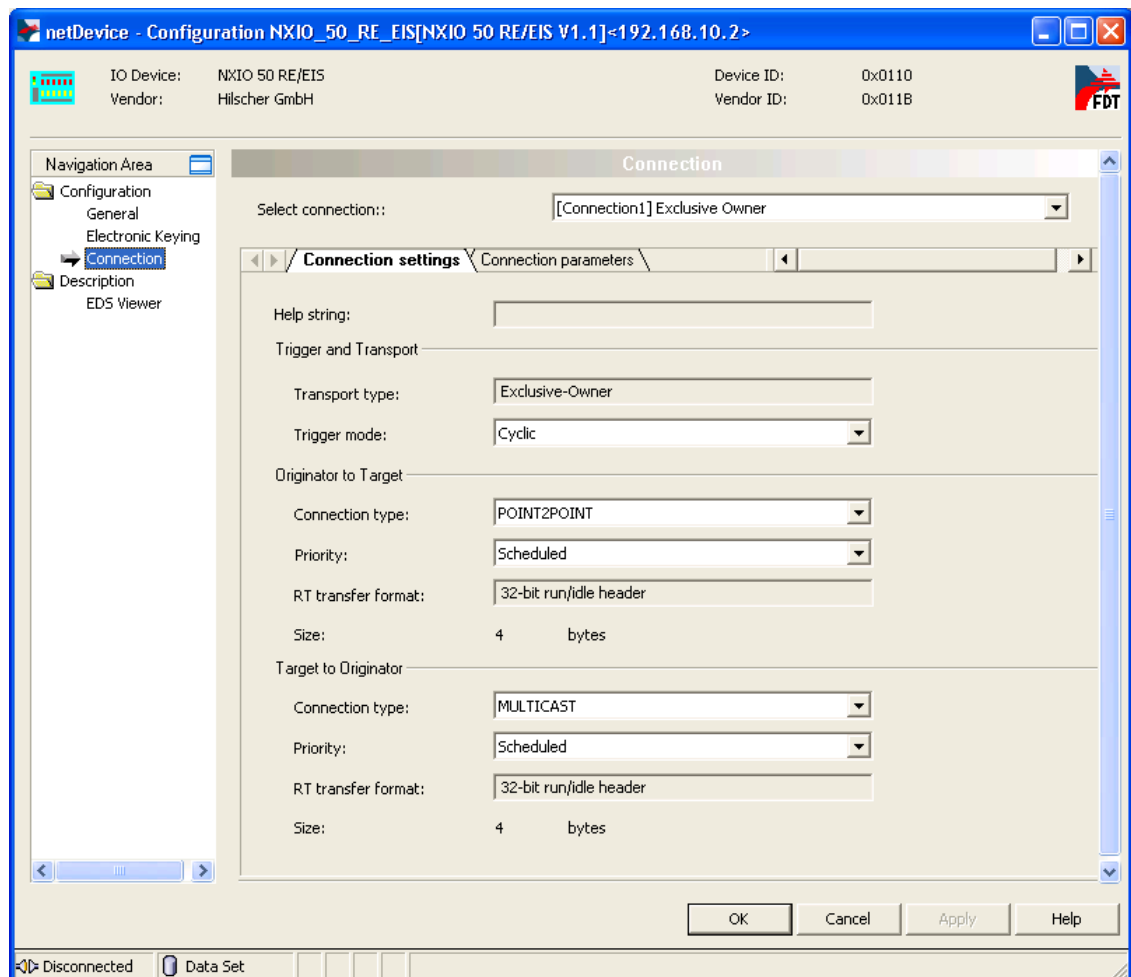
Configure Keying.

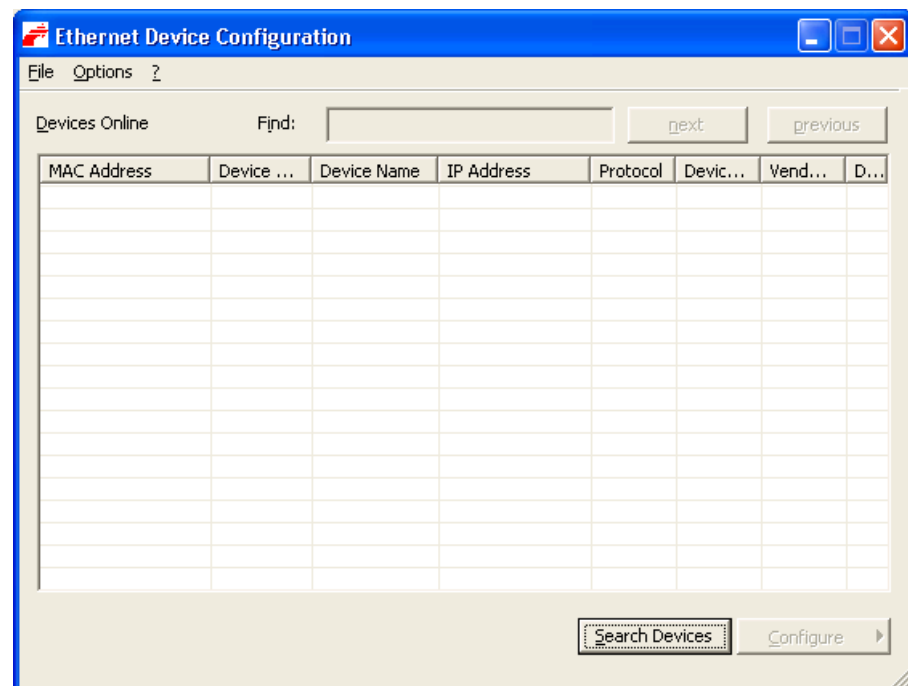
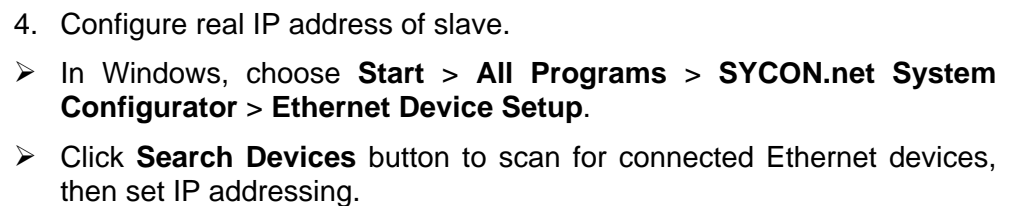
- In the **Navigation Area**, choose **Configuration > Electronic Keying**, then select Keying Method or disable Keying.

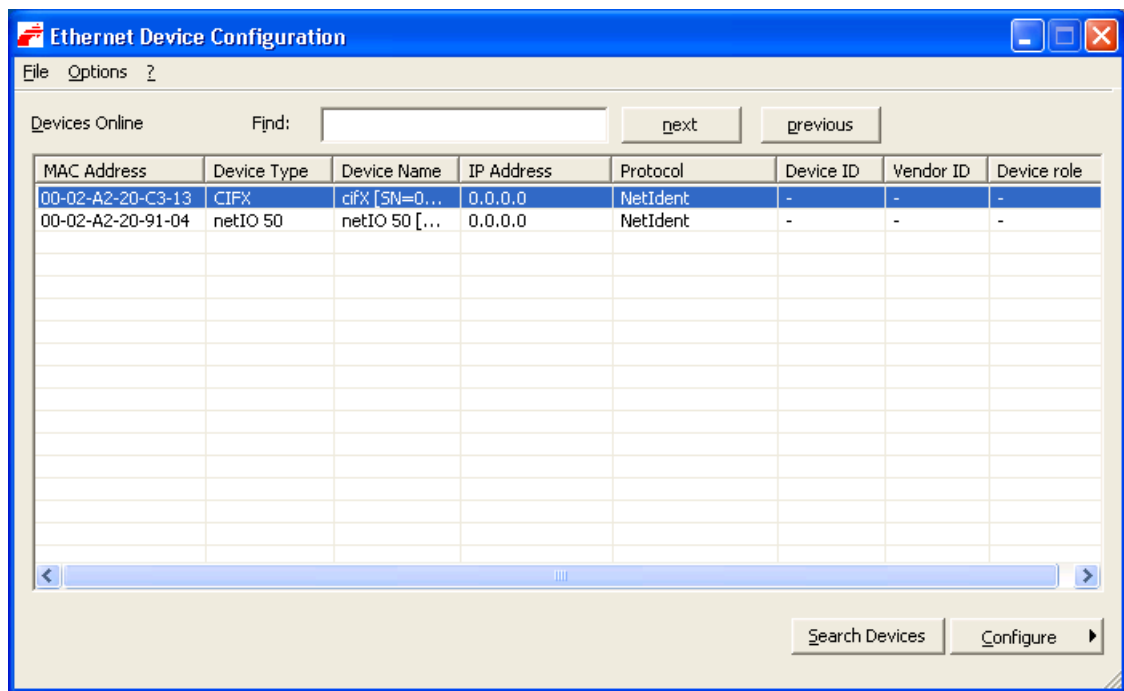


### 3. Configure I/O Data.

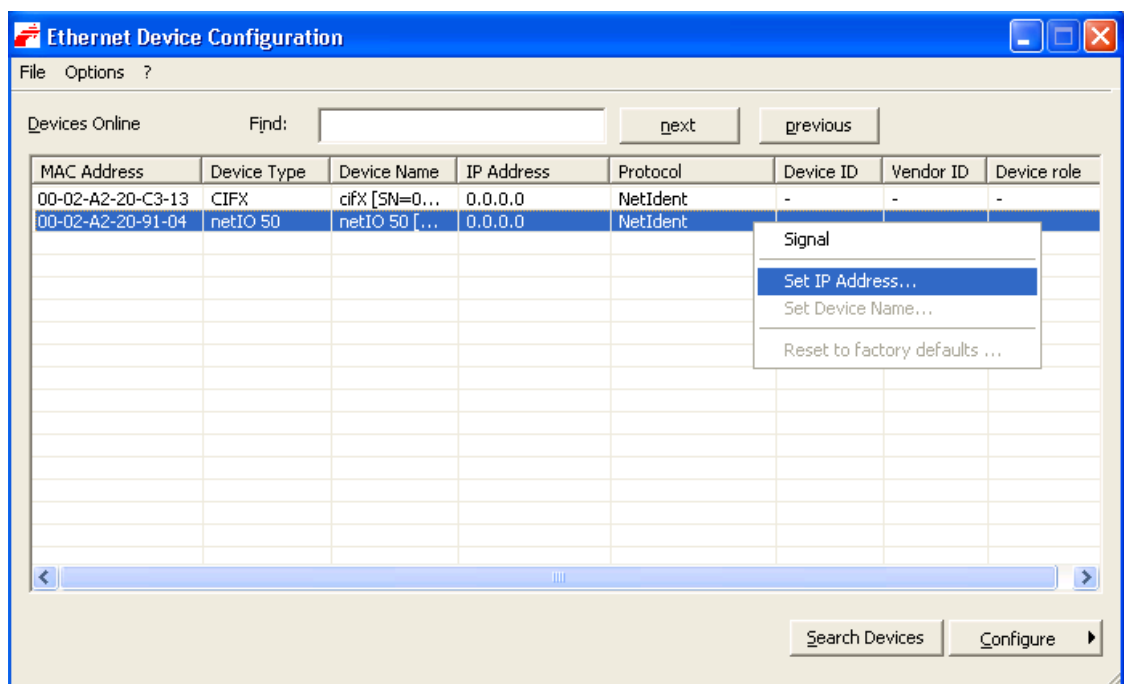
The connections and I/O Data which are displayed under **Configuration > Connection** are preconfigured for the NXIO 50-RE. Only the quantity of the I/O data can be changed between 1 and 4 bytes. Keep the length at 4 bytes.



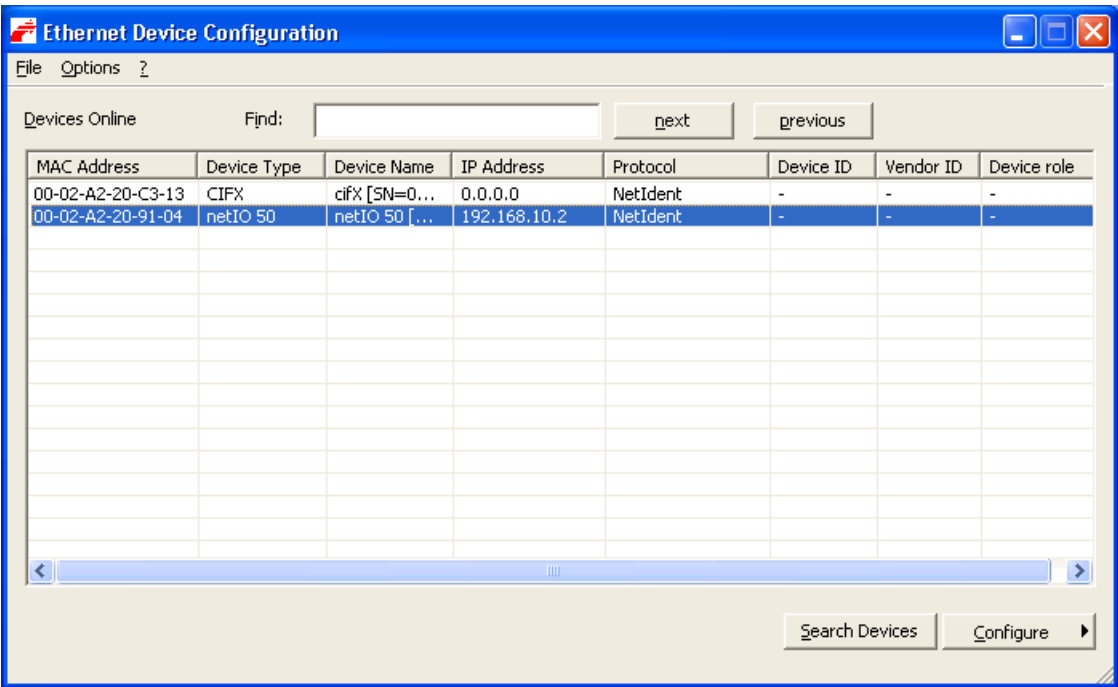
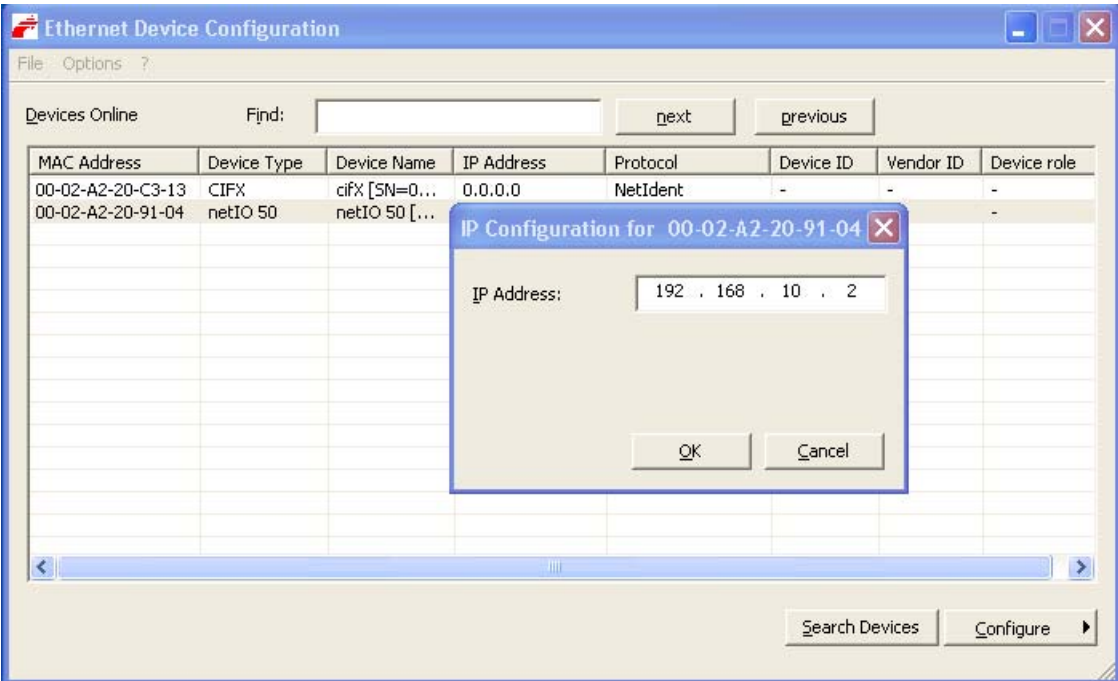




- Select the relevant Ethernet device, then right-click on the device to open the context menu. In the context menu, choose **Set IP Address...**







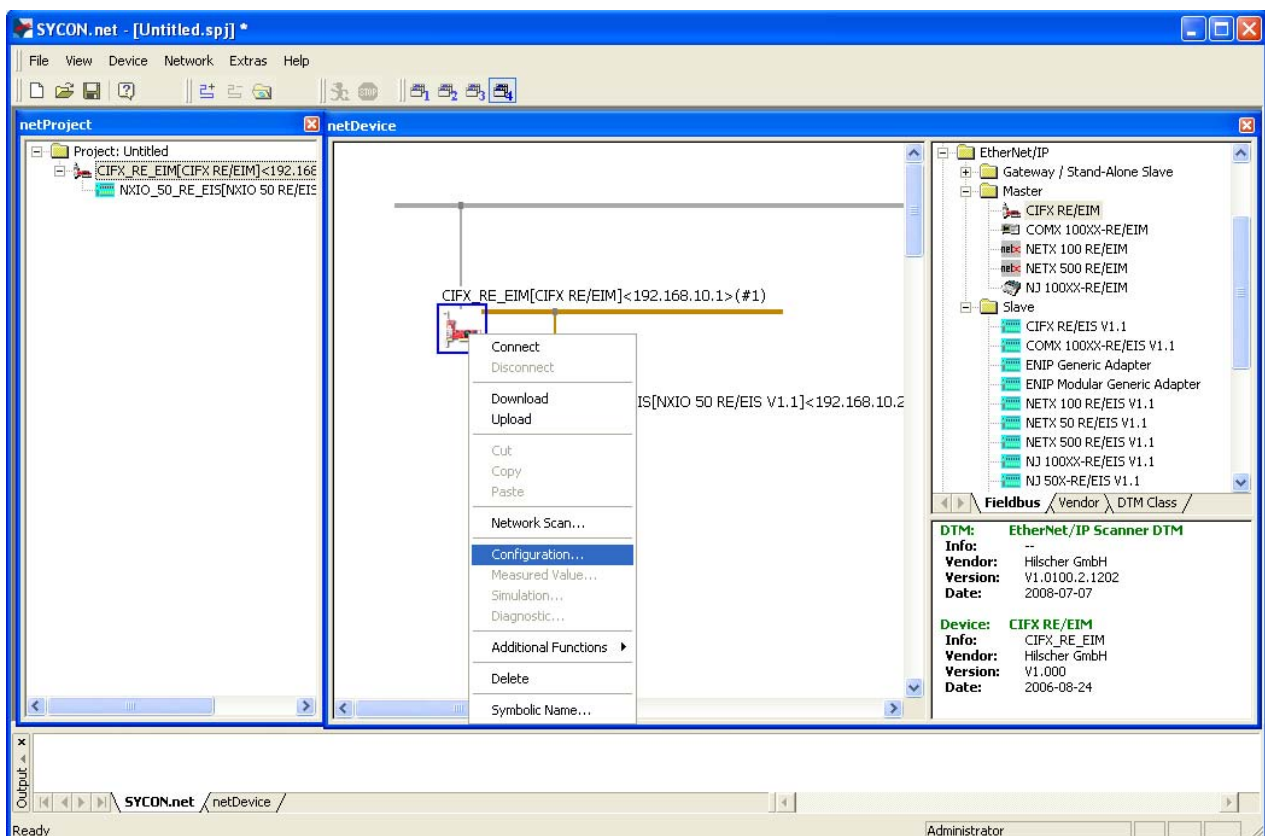
### 4.1.4 Configure Hilscher Stand-Alone Slave



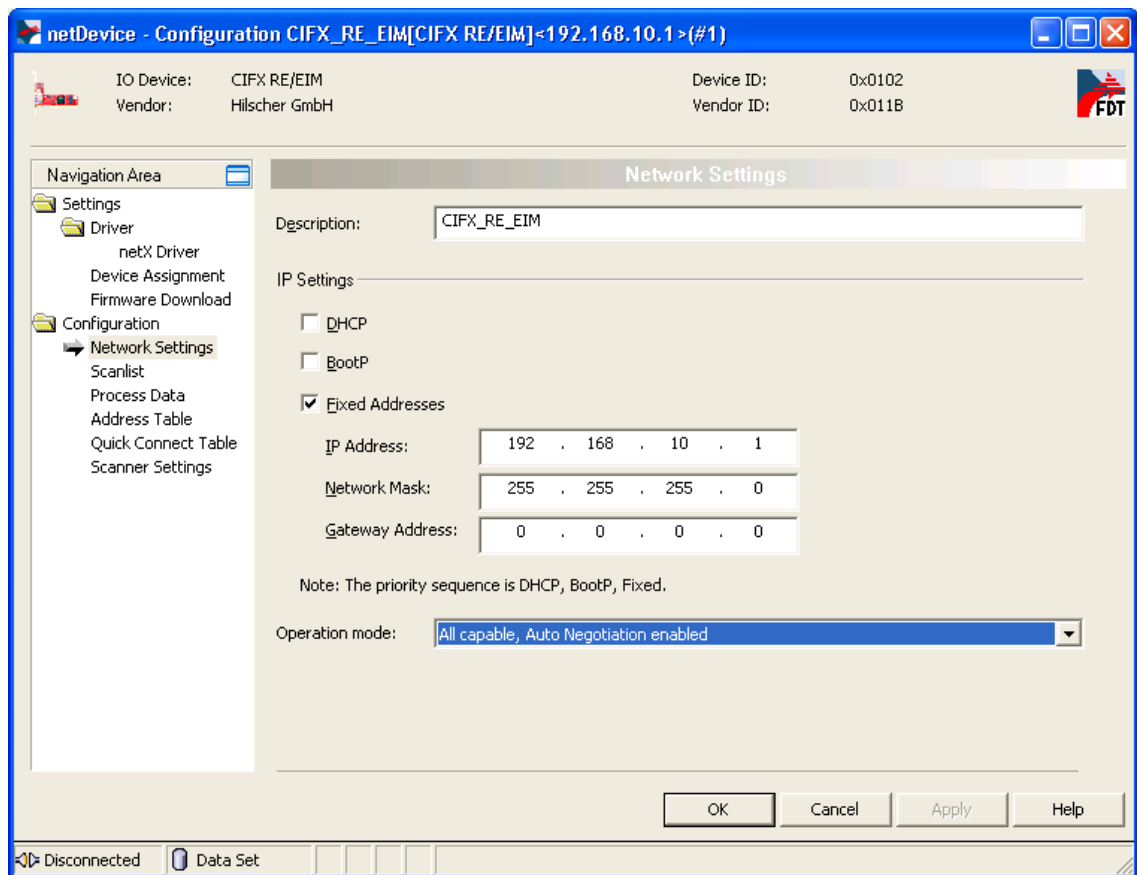
**Note:** It is not necessary to configure a Hilscher Stand-Alone Slave for this example.

### 4.1.5 Configure Master

1. Open Configuration window for **CIFX RE/EIM** master.
  - Right-click on the master device to open the context menu, then choose **Configuration**.



2. Configure Scanner address.
  - In the **Navigation Area**, choose **Configuration > Network Settings**, then set the IP addressing, e. g. by setting a fixed address.

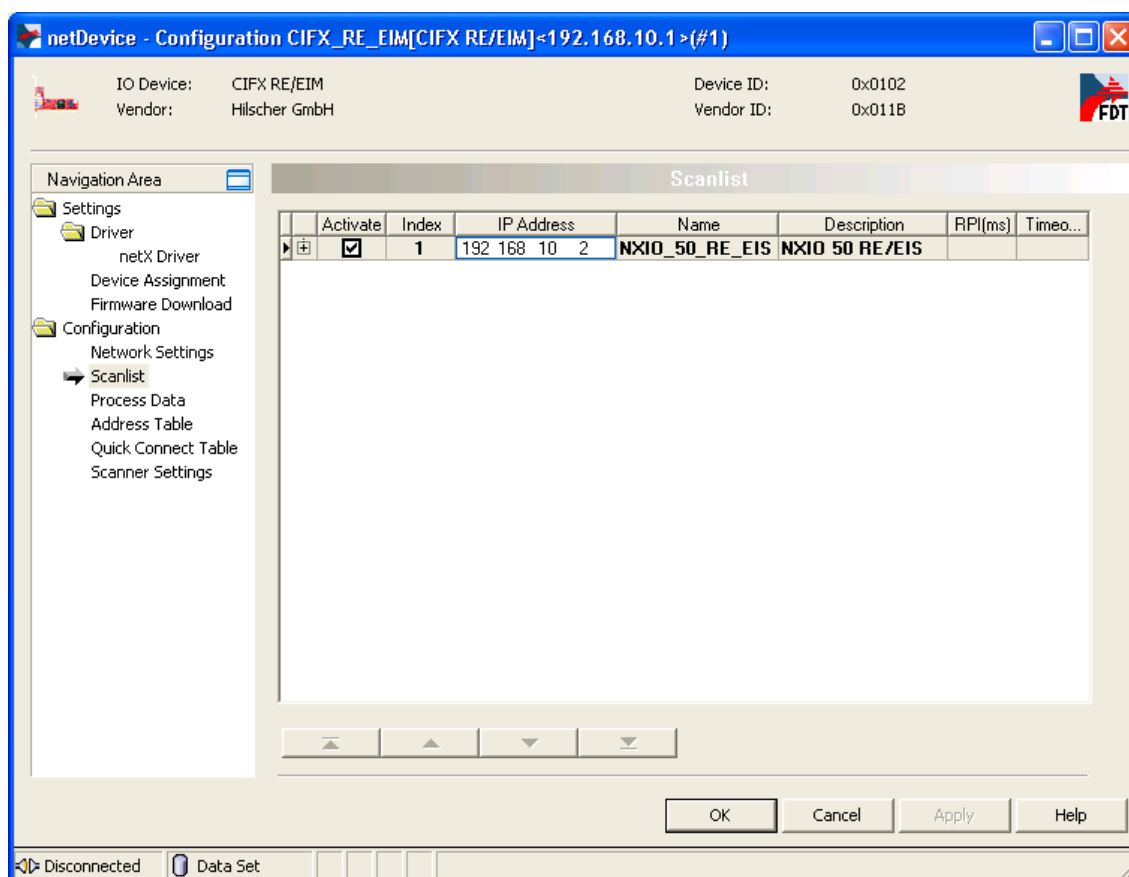


### 3. Configure IP address of slave.

- In the **Navigation Area**, choose **Configuration > Scanlist**, then set the IP address of the slave.
- In the **Scanlist** window, activate the slaves with which the master shall communicate.

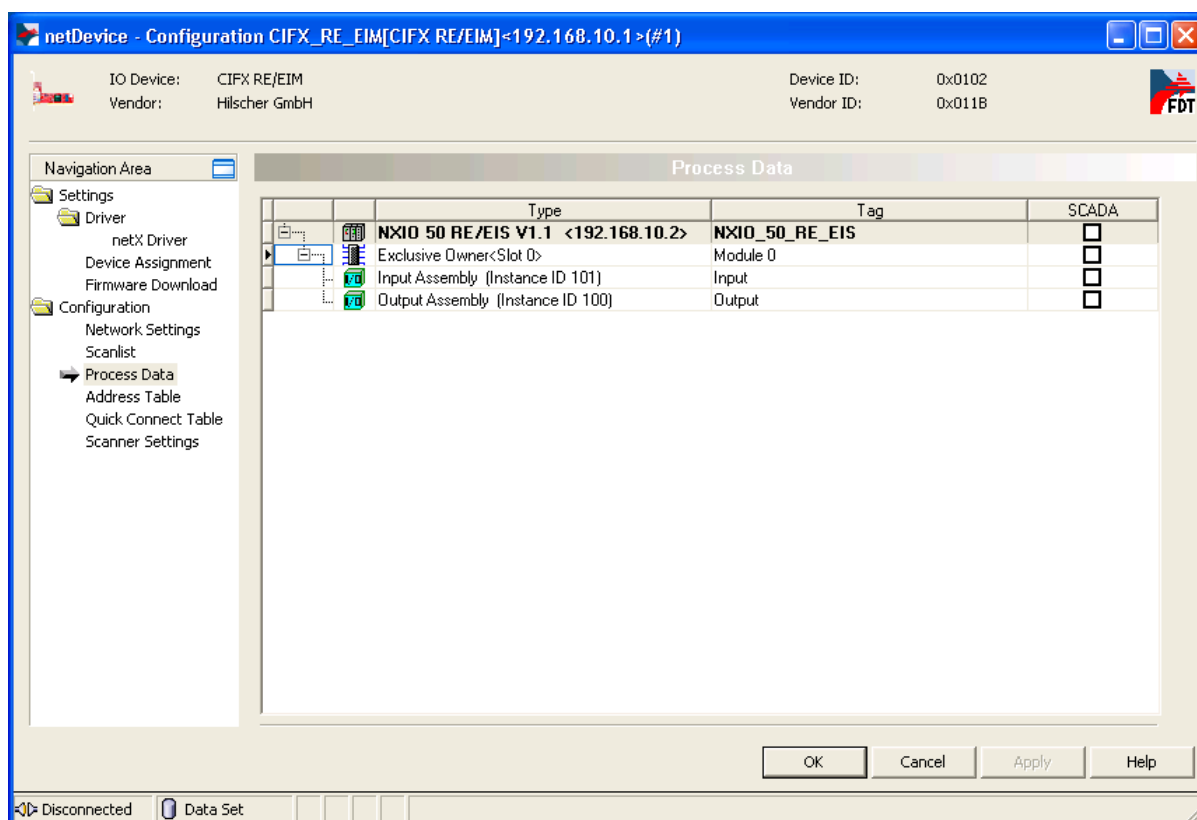


**Note:** The IP address of the slave must be identical with the set real IP address. The NXIO 50-RE can receive its address either from a DHCP server (rotary switch at NXIO) or it can be set by using the Ethernet Device Configuration tool.

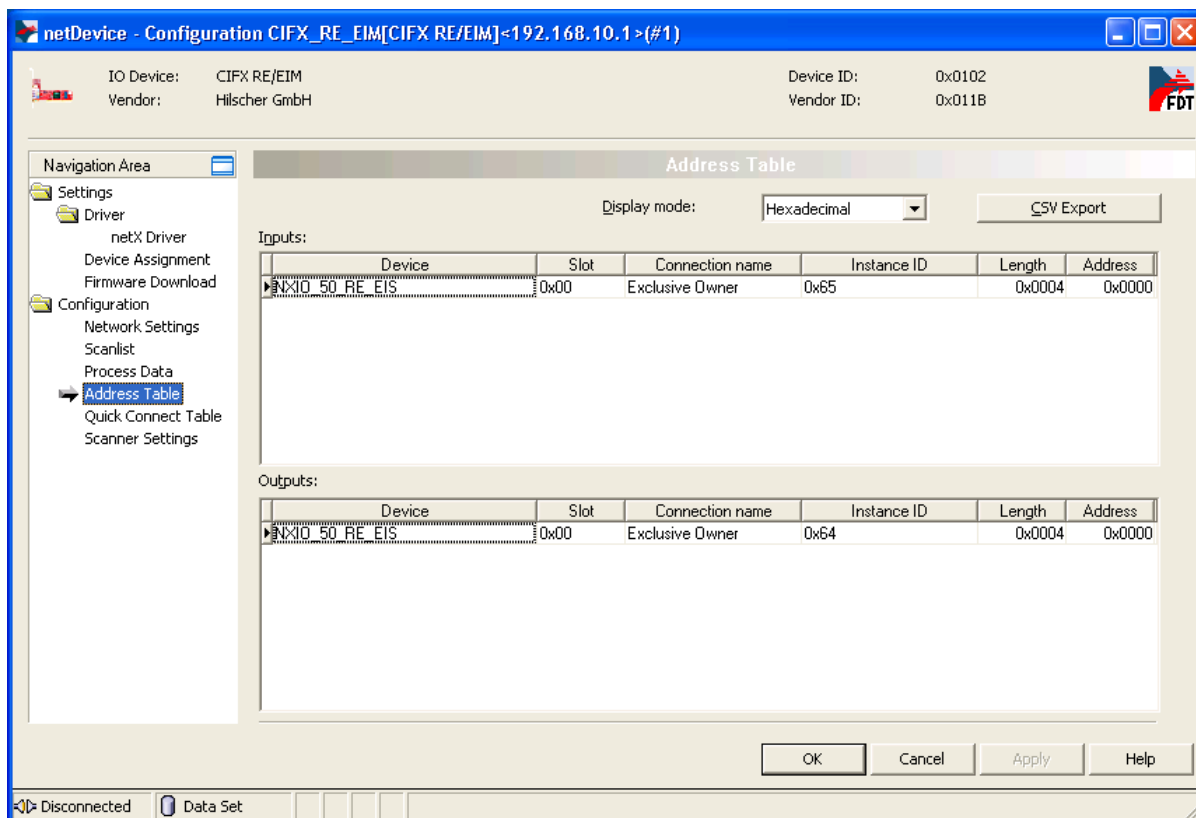


#### 4. Configure I/O data.

- In the **Navigation Area**, choose **Configuration > Process Data** to display the mapping of the input and output data.

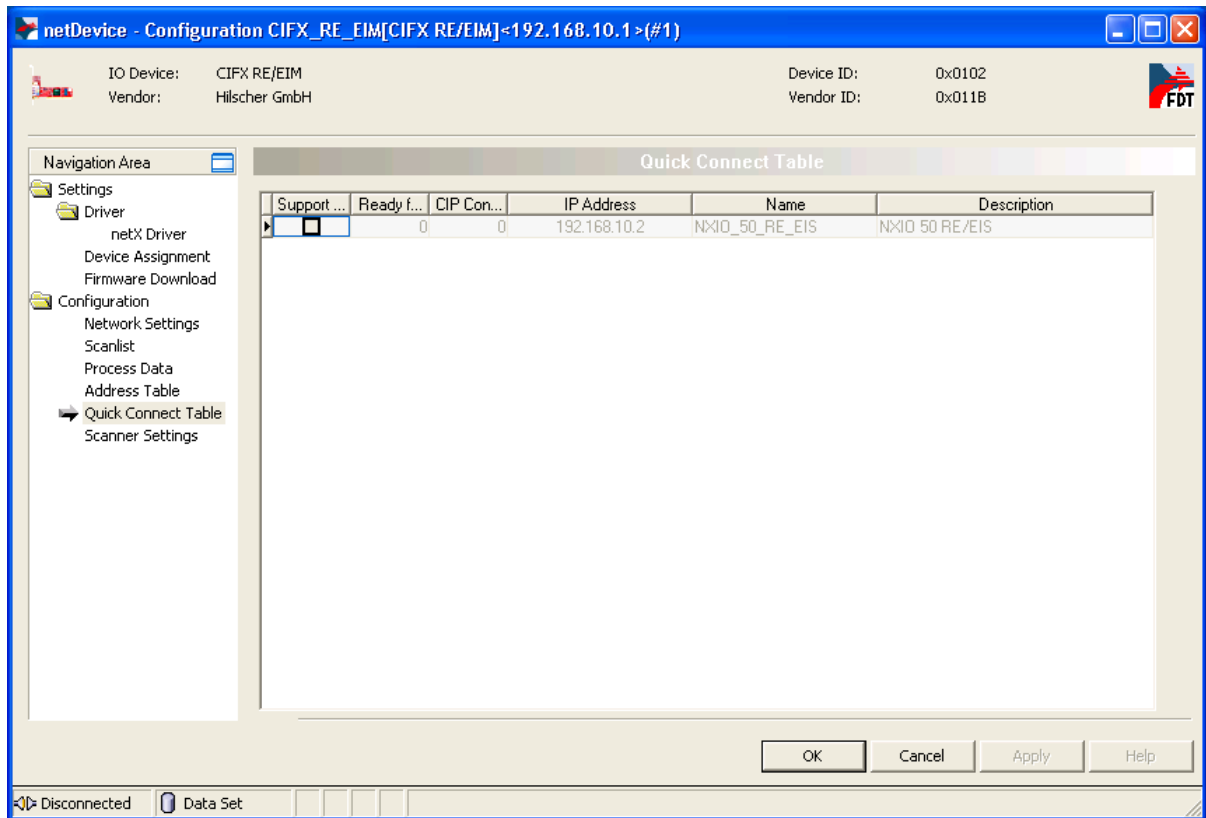


- In the **Navigation Area**, choose **Configuration > Address Table** to display the length and instance of the input and output data.



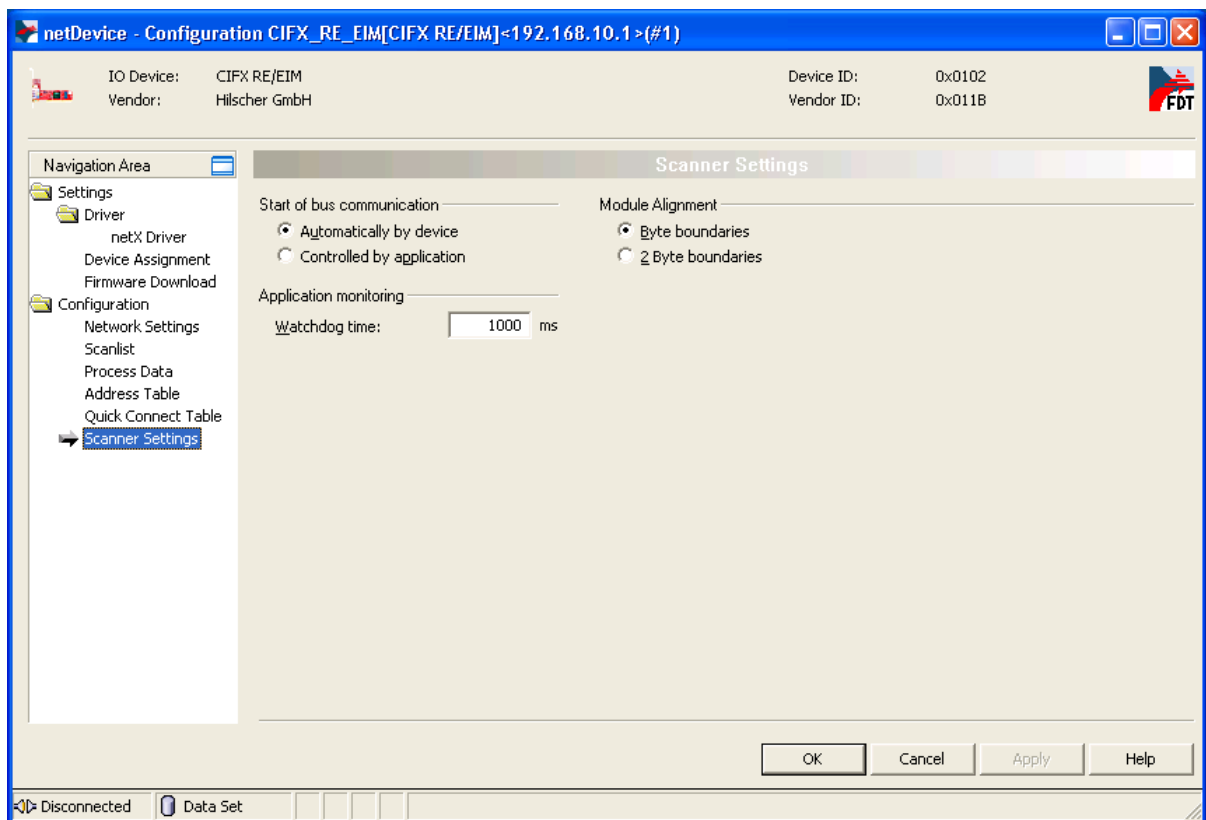
##### 5. Configure Quick Connect.

- Under **Configuration > Quick Connect Table**, there are no settings to be made.



6. Configure master settings.

➤ Under **Configuration > Scanner Settings**, use the default settings.

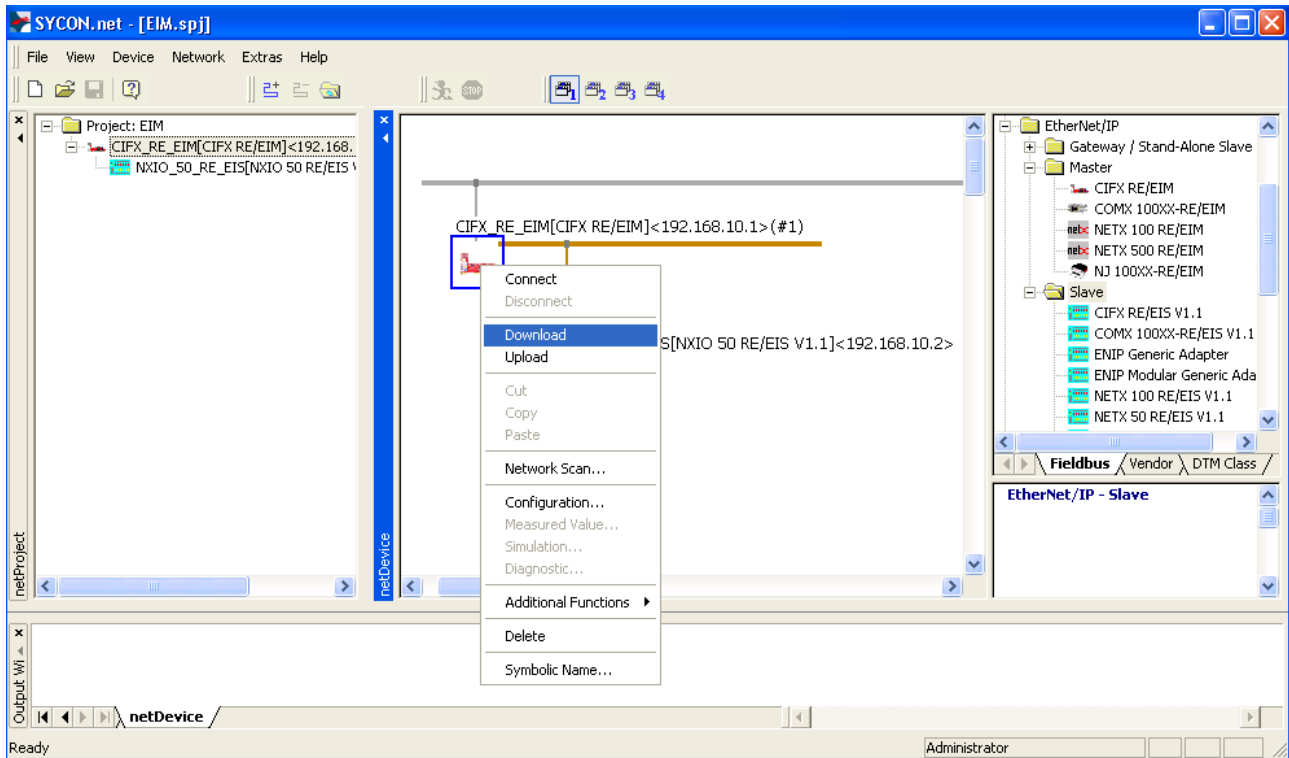


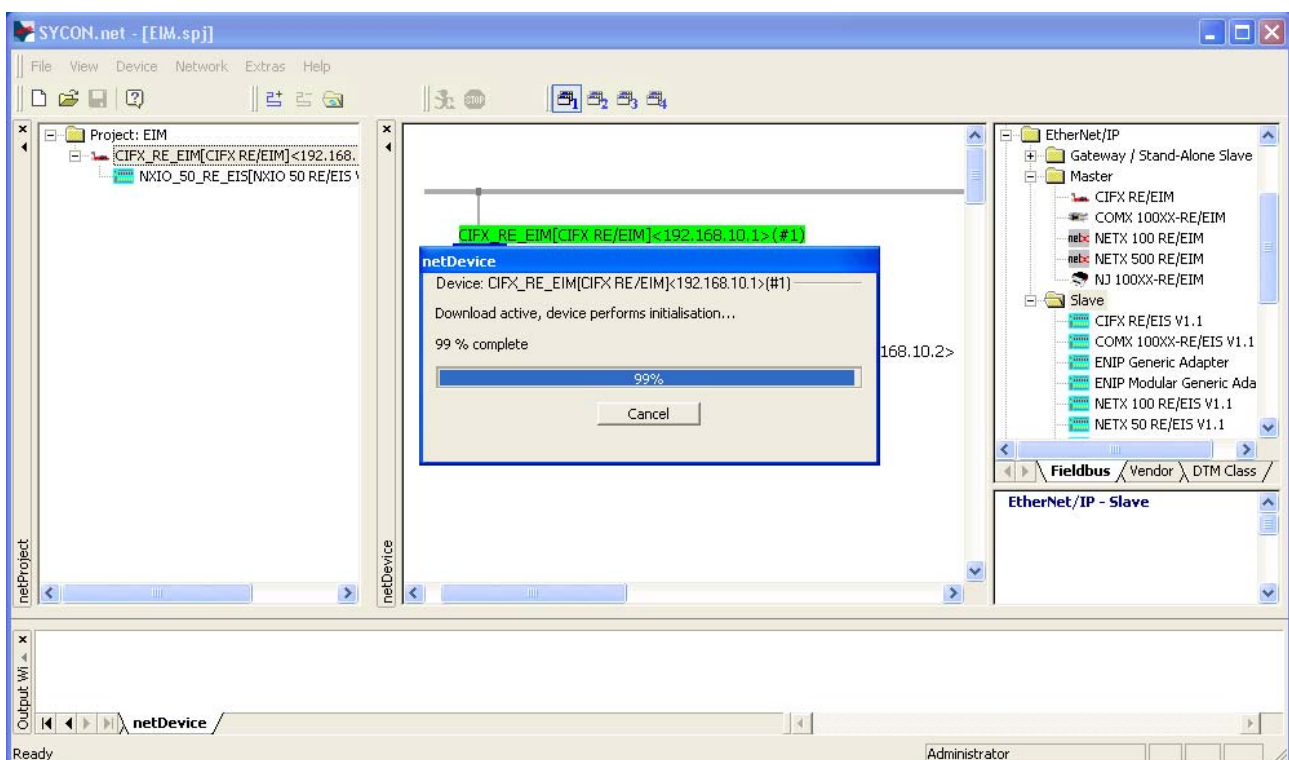
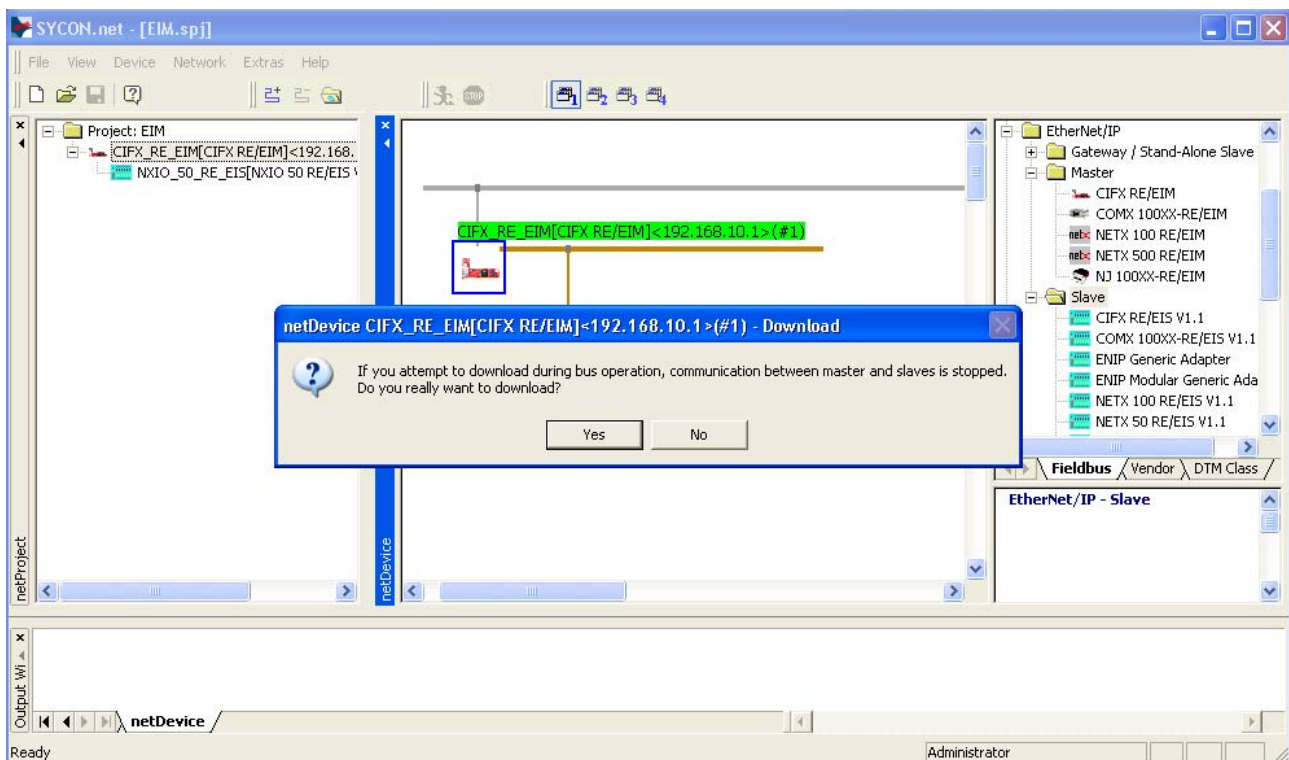
## 7. Download configuration to master.

- Right-click on the master device to open the context menu, then choose **Download**.



**Note:** After downloading the configuration, SYCON.net is connected to the master device for diagnostic purposes. The green highlighted display indicates an active connection to the master.







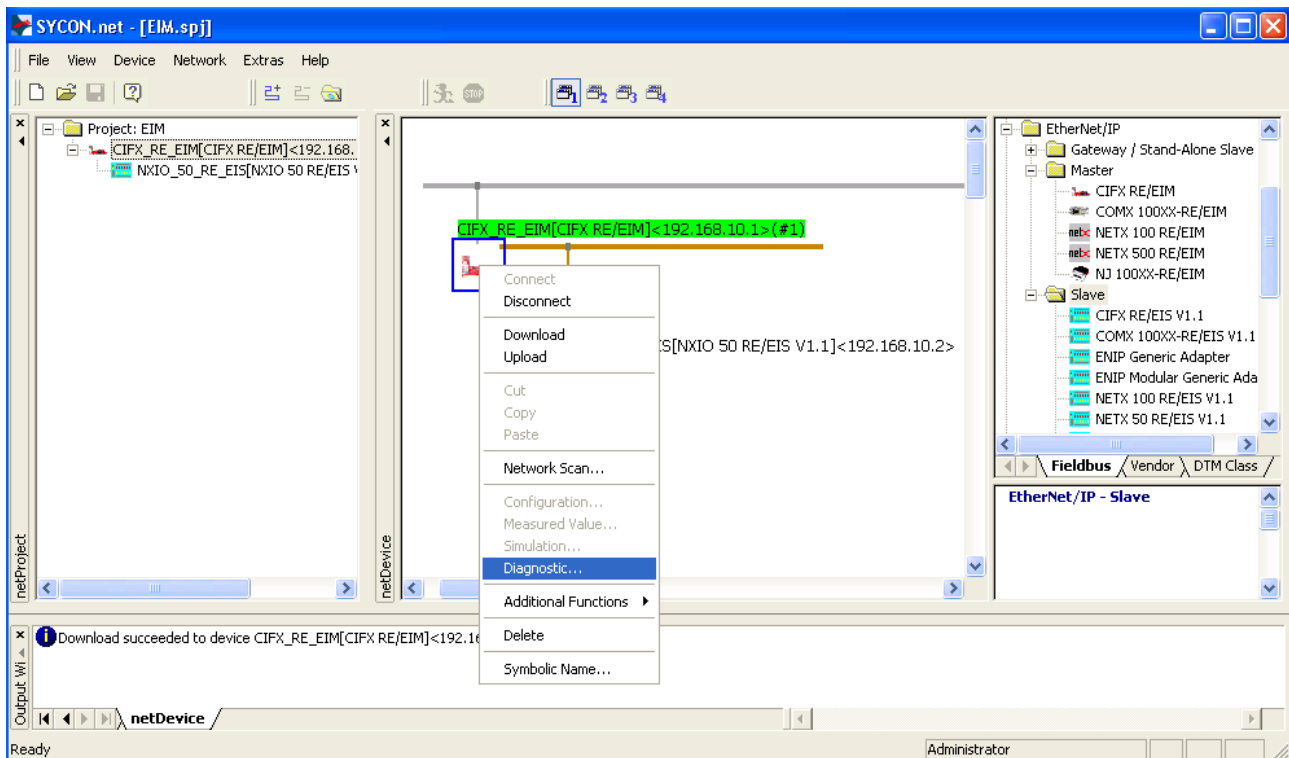
## 4.1.6 Diagnosis and Testing

### Diagnosis and testing with SYCON.net

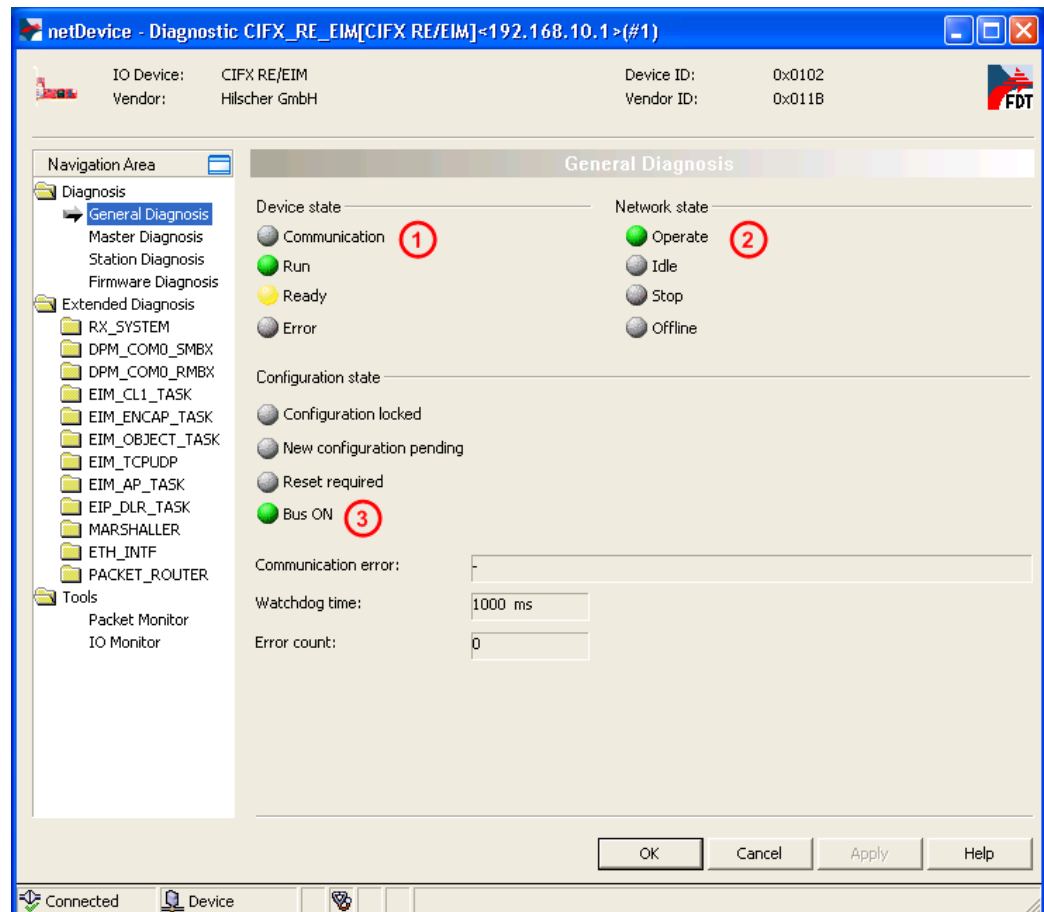
1. Connect with master and open diagnosis window for **CIFX RE/EIM**.
  - Right-click on the master device to open the context menu, then choose **Diagnostic...**



**Note:** After downloading the configuration, SYCON.net is automatically connected to the master device. If SYCON.net is not connected, right-click on the master device to open the context menu, then choose **Connect**.

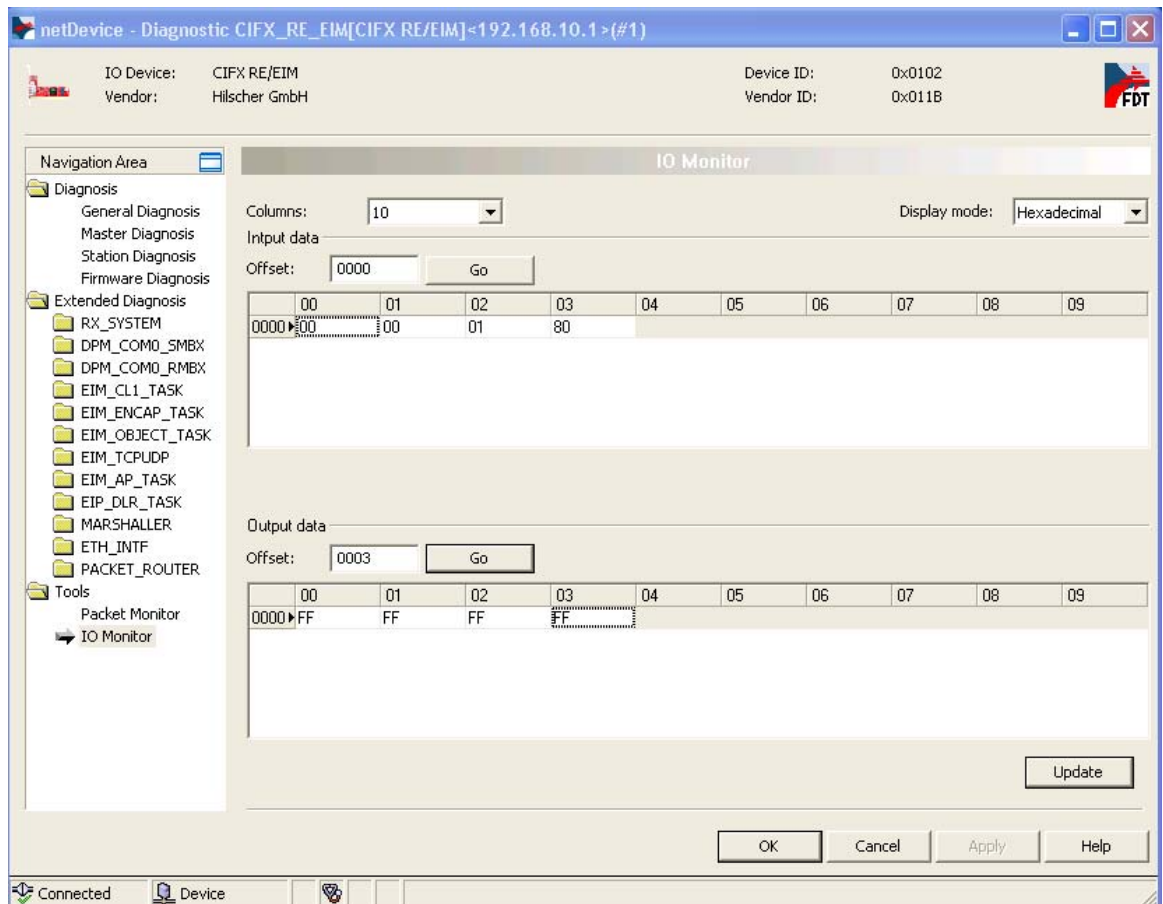


2. Check state of the network in **General Diagnosis** window.
  - In the **Navigation Area**, choose **Diagnosis > General Diagnosis**.
  - Check if there is a green light for **Device state > Communication** ①, **Network state > Operate** ② and **Configuration state > Bus ON** ③. This indicates a functioning communication.



3. Use IO Monitor to test the communication.
  - In the **Navigation Area**, choose **Tools > IO Monitor**.
  - Enter output data, then click **Update** button.

The input data area displays the received input data.



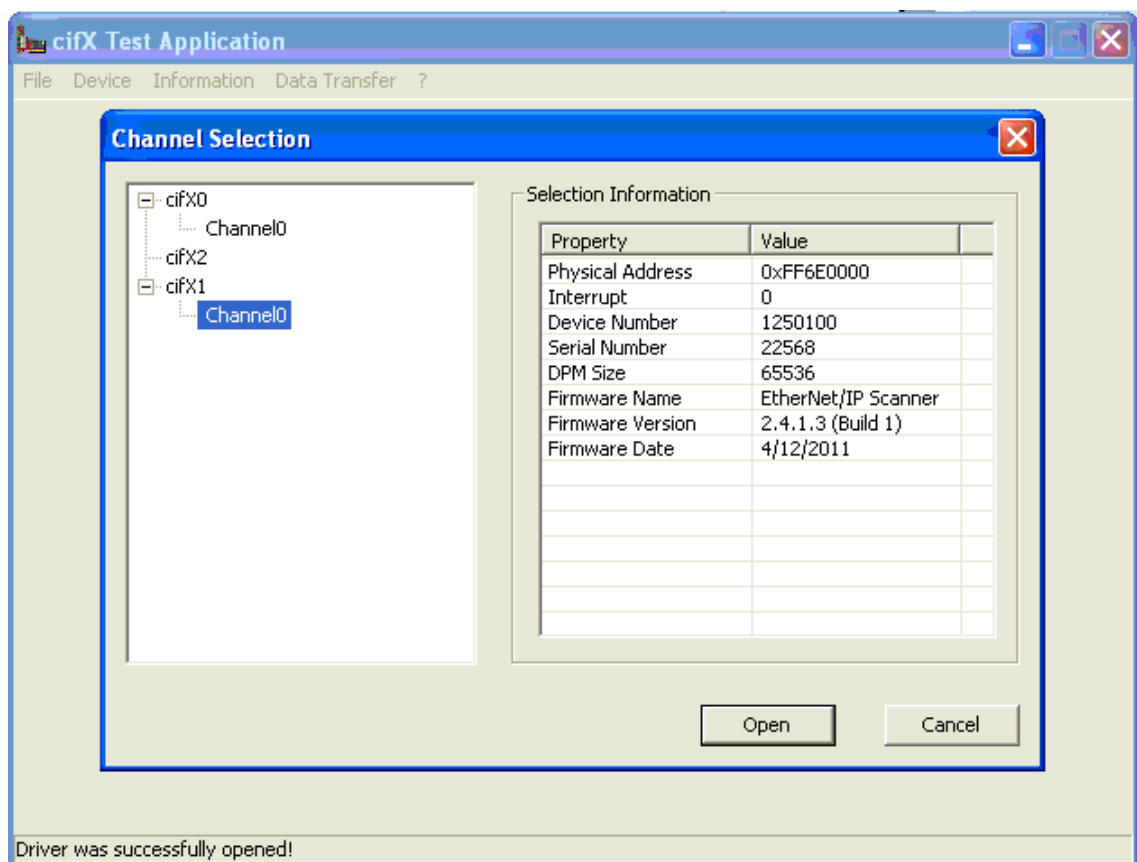
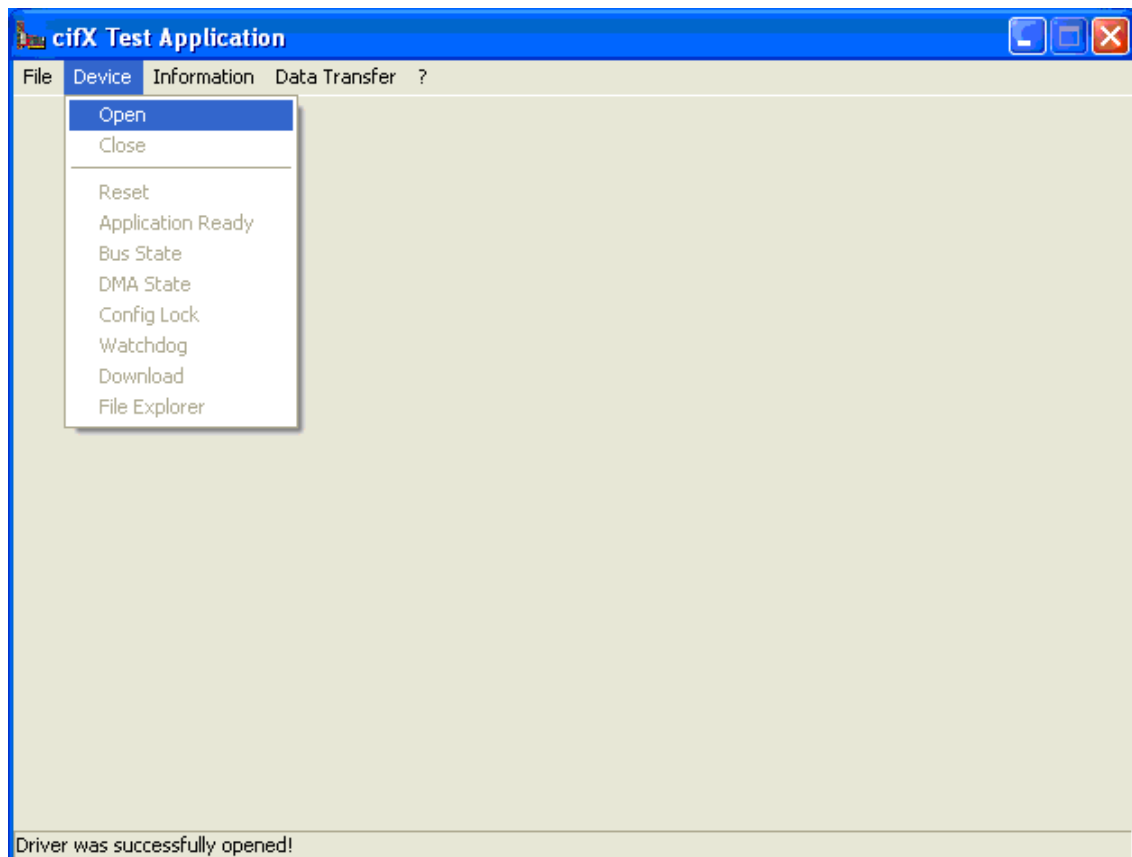
### Diagnosis and testing with cifX Test

4. Start cifX Test auxiliary tool.
  - In Windows, choose **Start > Control Panel > cifX Test**.
5. Establish connection to Hilscher device.
  - In the menu, choose **Device > Open**.
  - Select **cifX > Channel0**.



**Note:** If you open the cifX level, you can see and use all functions concerning the PC card, e. g. licenses.

If you open **cifX > Channel0**, you can see and use all functions concerning the communication channel, e. g. I/O data.

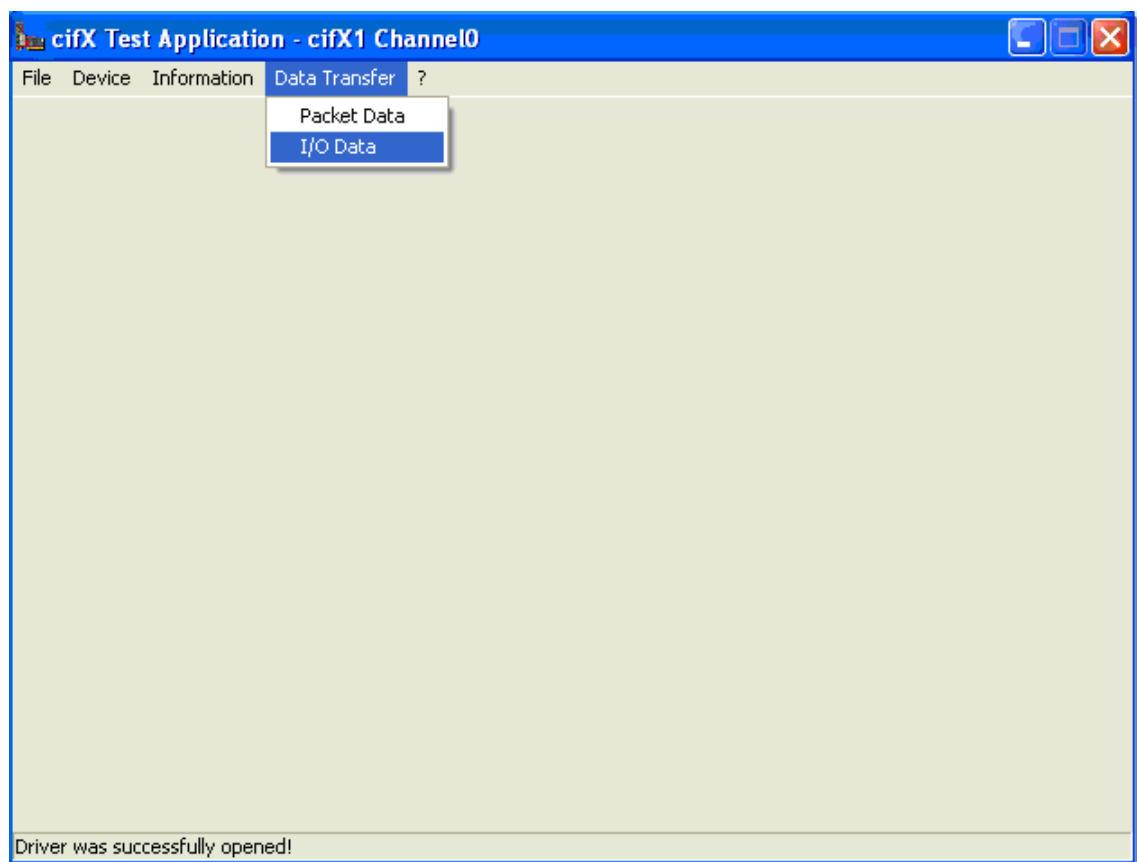


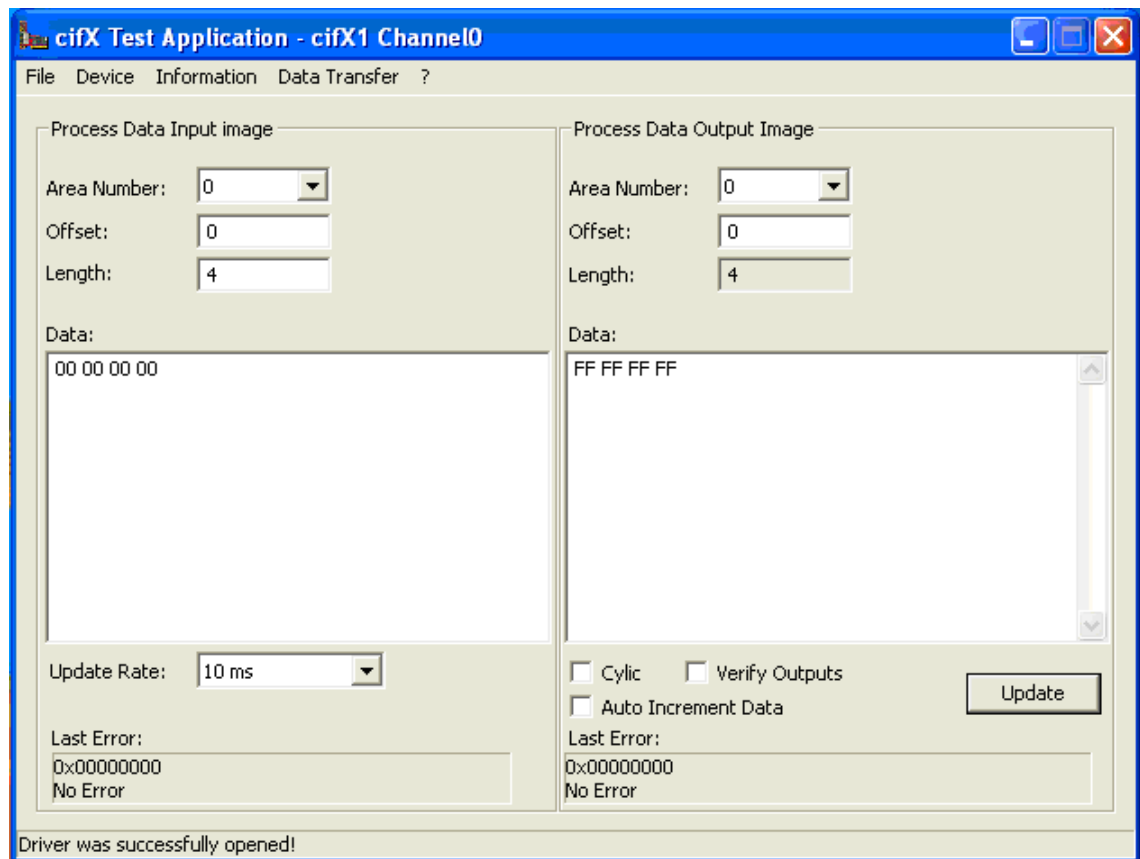
6. I/O data exchange.

- In the menu, choose **Data Transfer > I/O Data**.
- Set output data, then click **Update**,  
e. g. FF FF FF FF.
- Data is transferred to the NXIO 50-RE and displayed by LED.
- Enter the length of the input data to be displayed in the cifX Test auxiliary tool, e. g. "4".
- Use the buttons on the NXIO 50-RE device to create new data, then watch the incoming data in the cifX Test auxiliary tool.



**Note:** Observe the data length. It must comply with the configuration.  
With the output data, you can use **cyclic** and **auto increment**.



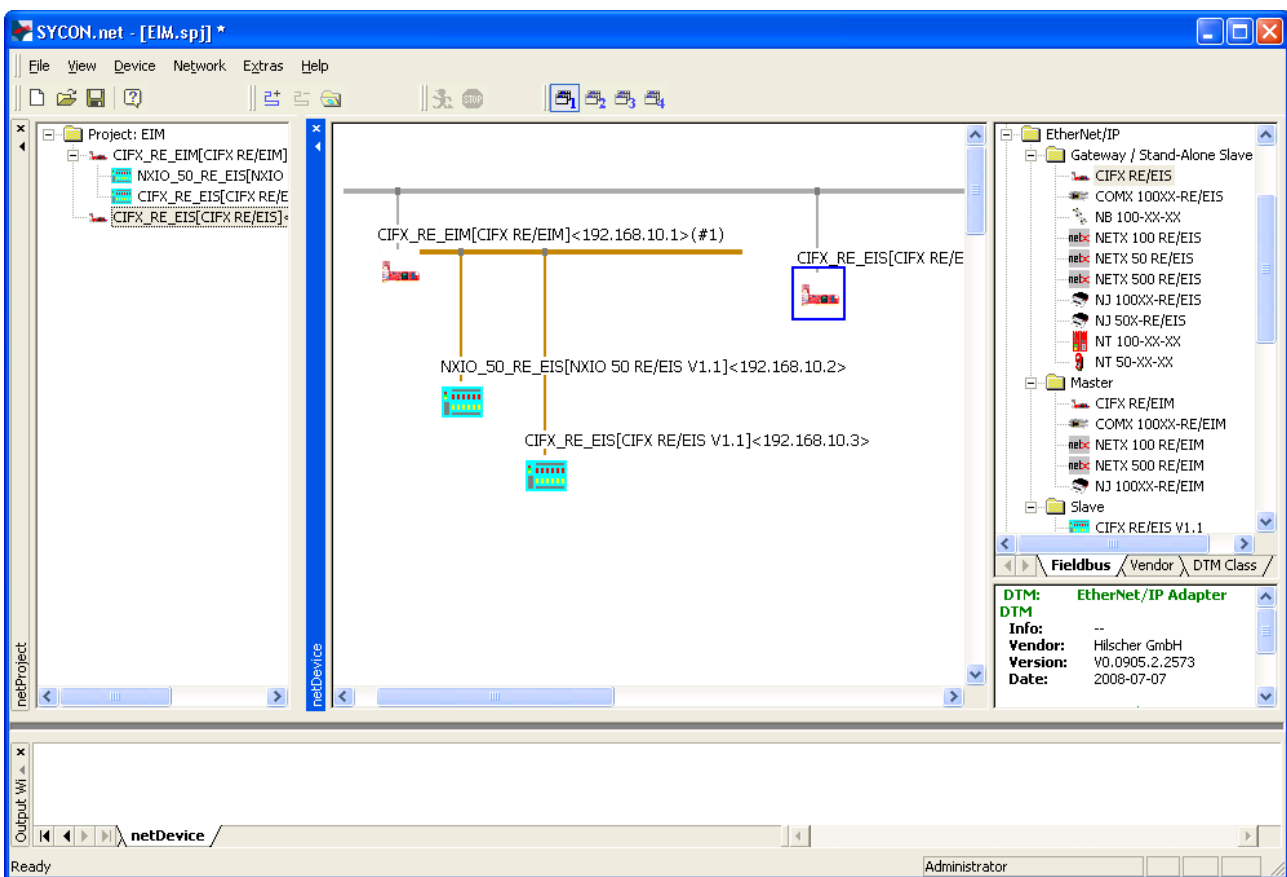


## 4.2 Setup 2: CIFX 50-RE Added as Second Slave

The following steps describe – on the basis of Setup 1 – how to integrate a CIFX 50-RE as second slave into the setup.

### 4.2.1 Set Up Network

1. Add EtherNet/IP Adapter device to network.
  - Select a **CIFX RE/EIS** from the **Device Catalog (Slave)** and drag and drop it onto the EtherNet/IP network line.
2. cifX RE/EIS is a full-scale EtherNet/IP Adapter device, thus the corresponding Stand-Alone Slave has to be positioned in the network.
  - Select a **CIFX RE/EIS** from the **Device Catalog (Gateway/Stand-Alone-Slave)** and drag and drop it onto the upper line.



### 4.2.2 Assign Hardware and Load Firmware



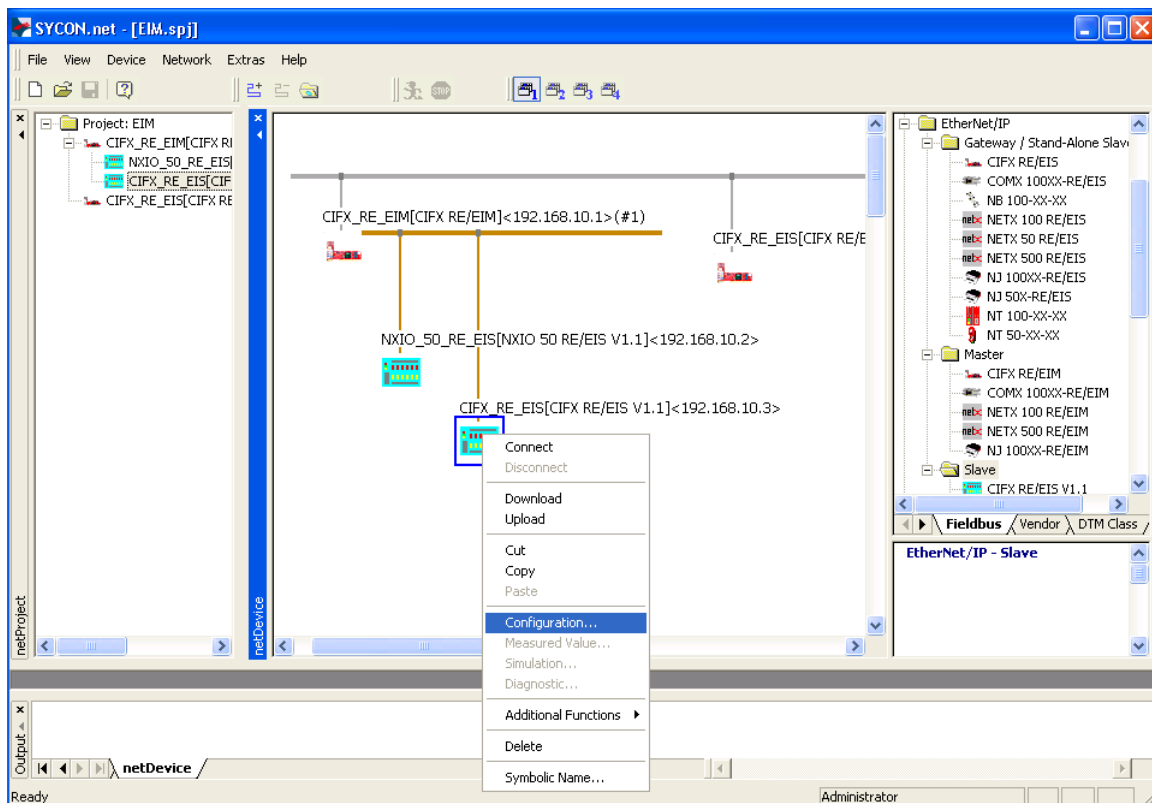
**Note:** Hardware assignment and firmware download for the master CIFX RE/EIM have already been carried out during configuration of Setup 1.

### 4.2.3 Configure Slave



**Note:** Configuration of the NXIO 50-RE has already been carried out during configuration of Setup 1.  
What now has to be done, is to configure the second PC card as slave CIFX RE/EIS.

1. Open Configuration window for **CIFX RE/EIS** slave.
  - Right-click on the slave device to open the context menu and choose **Configuration**.



2. Configure address.
  - **The real IP address of the CIFX RE/EIS is set via Stand-Alone Slave**, e. g. 192.169.19.3.



**Note:** The IP address of the CIFX RE/EIS in the network configuration, which is displayed under **Configuration > General**, can be adjusted via the master.

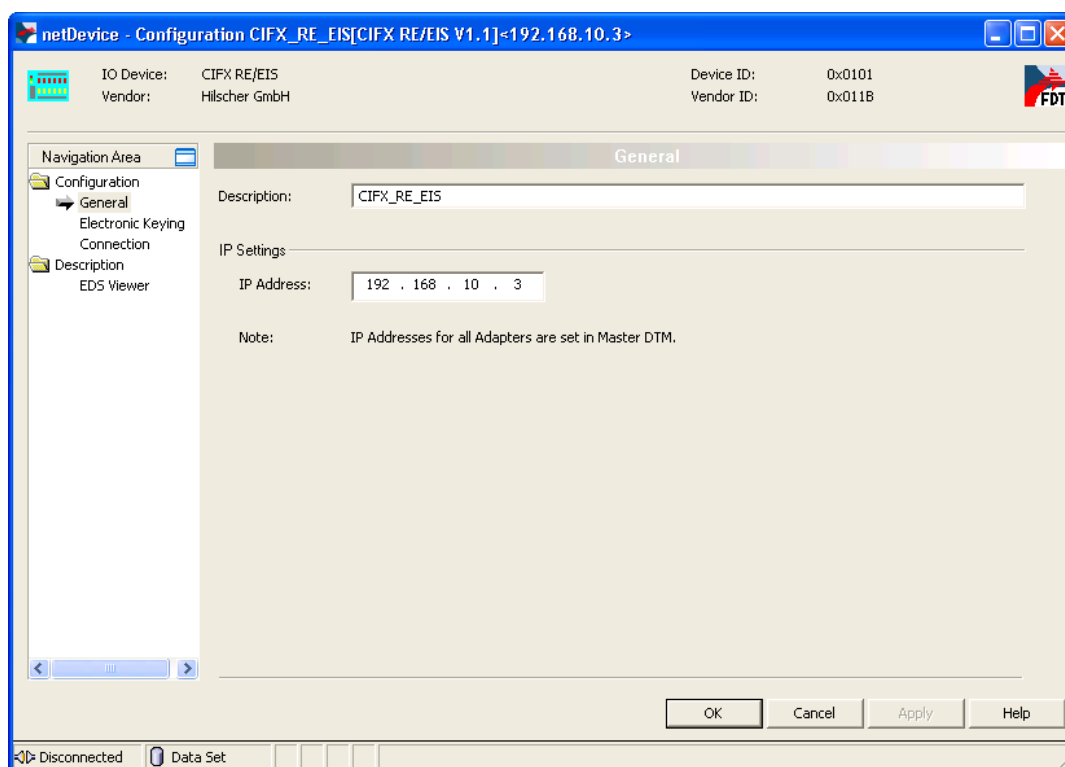


**Note:** In EtherNet/IP, unequivocal addressing takes place via the IP address. The IP address can either be set permanently by the user or can be received from a DHCP server.



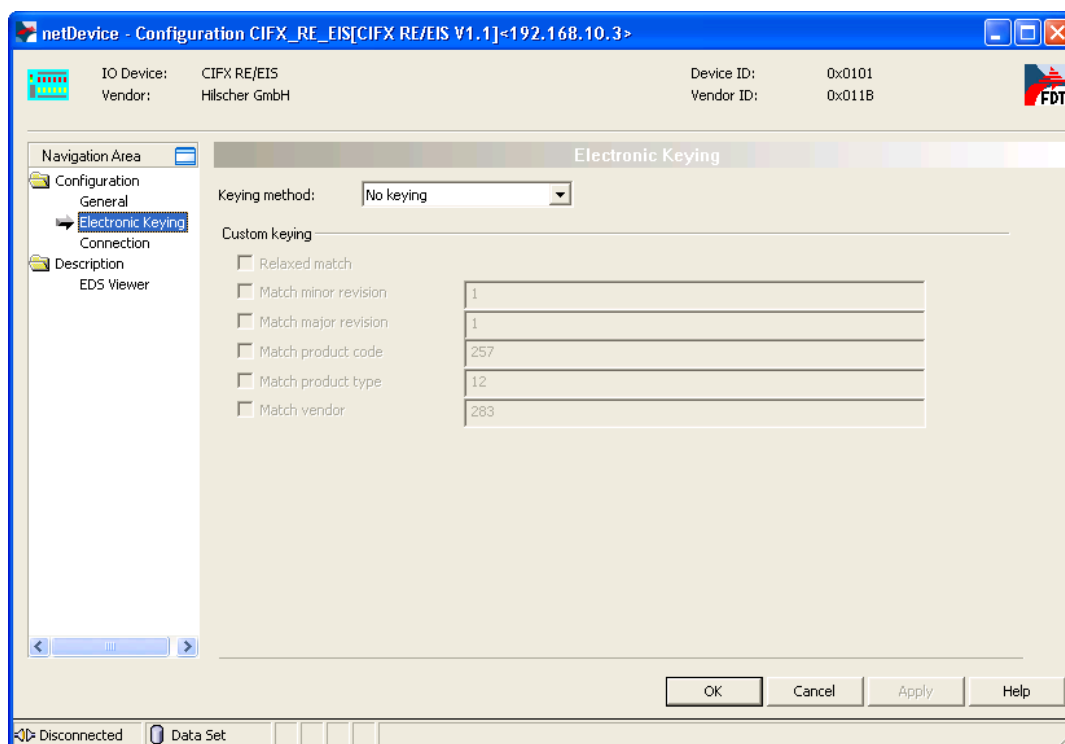
**Note:** The real IP addresses of Hilscher slaves are set via Stand-Alone Slave or by using the Ethernet Device Configuration tool.





### Configure Keying.

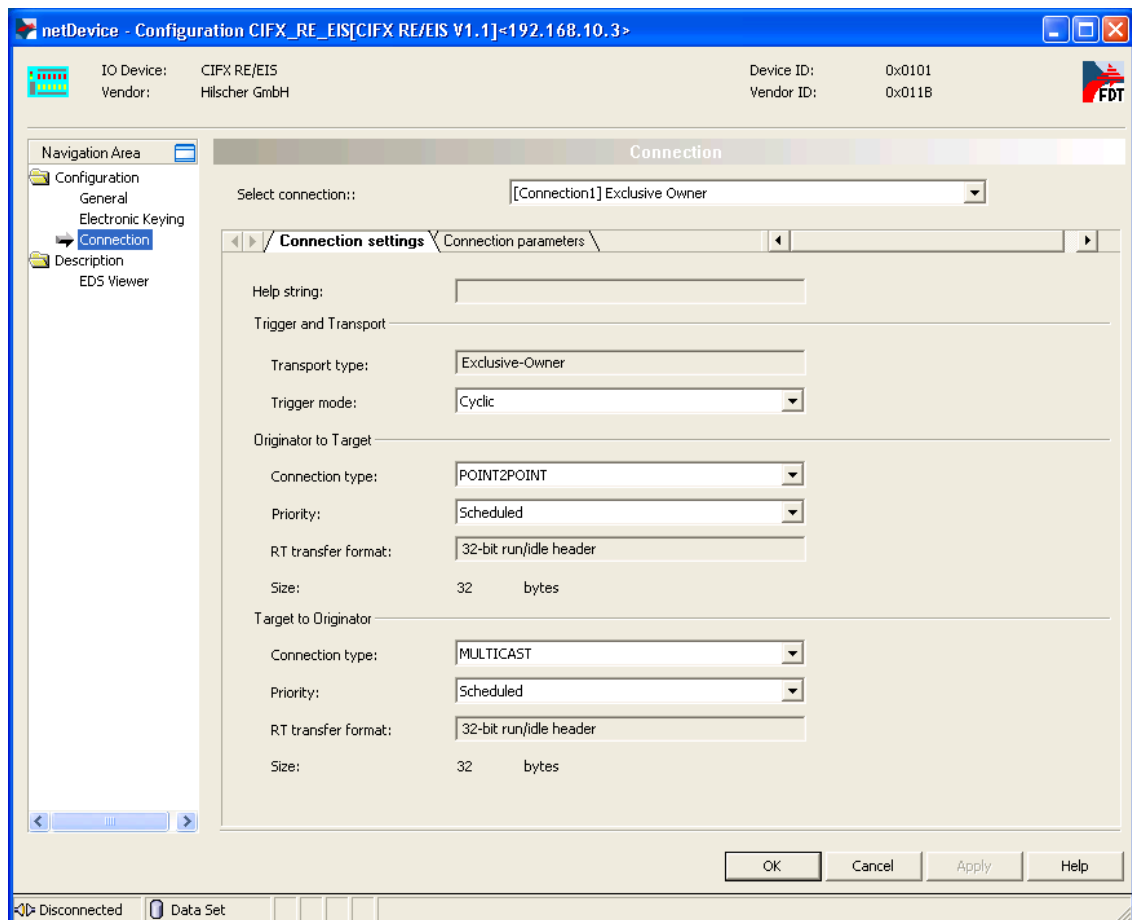
- In the **Navigation Area**, choose **Configuration > Electronic Keying**, then select Keying Method or disable Keying.

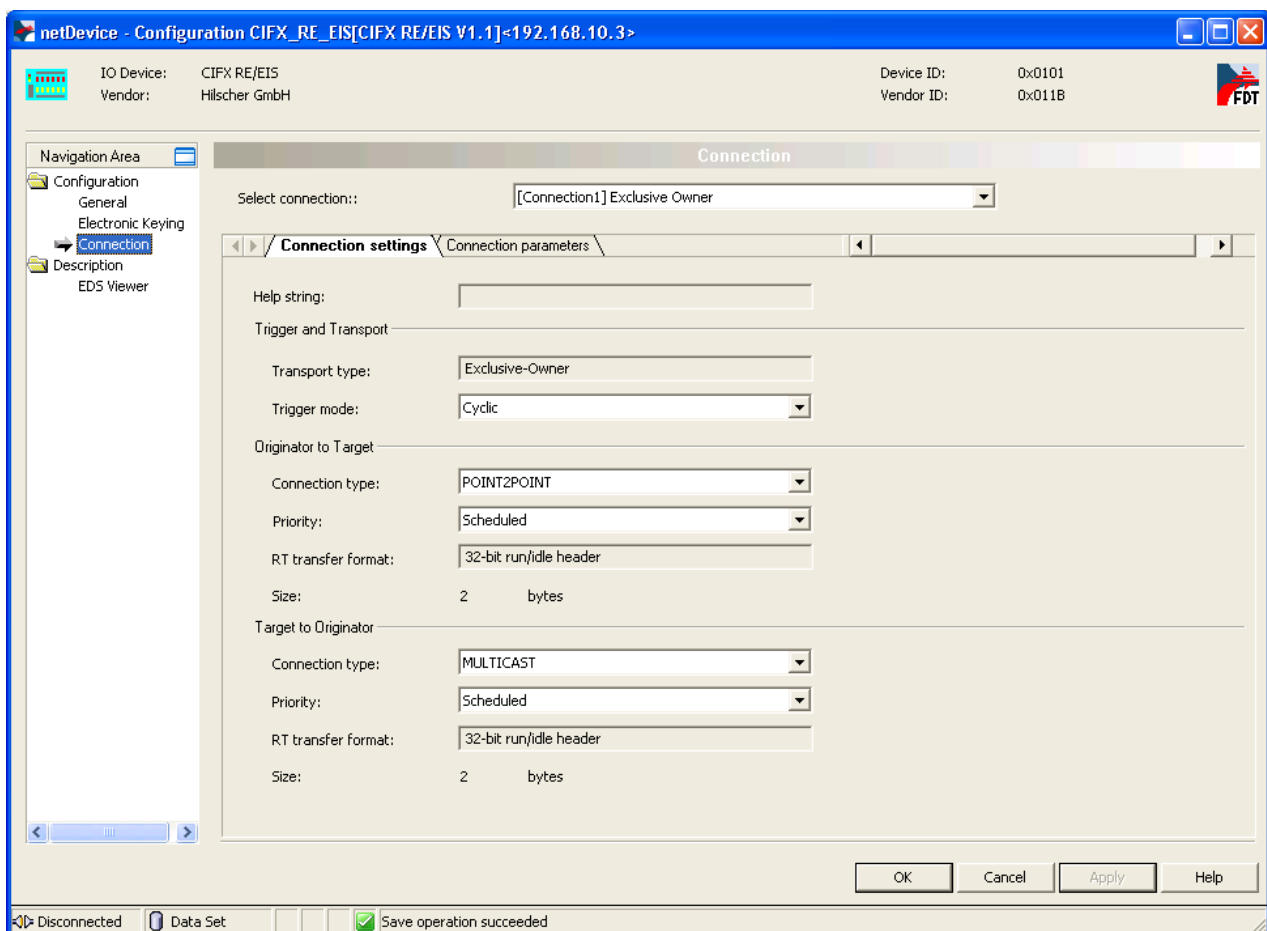
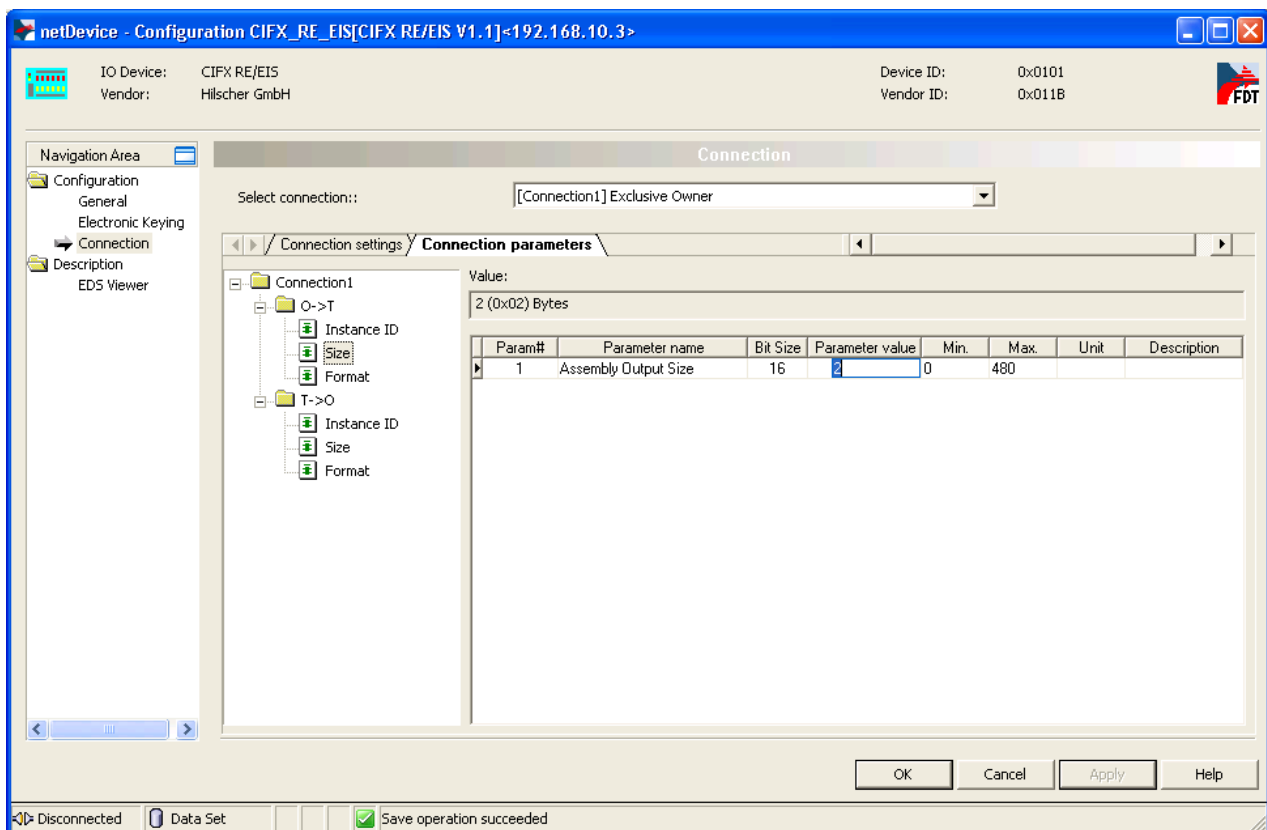


### 3. Configure I/O Data.

I/O data for the CIFX RE/EIS can be freely configured, there are no pre-settings.

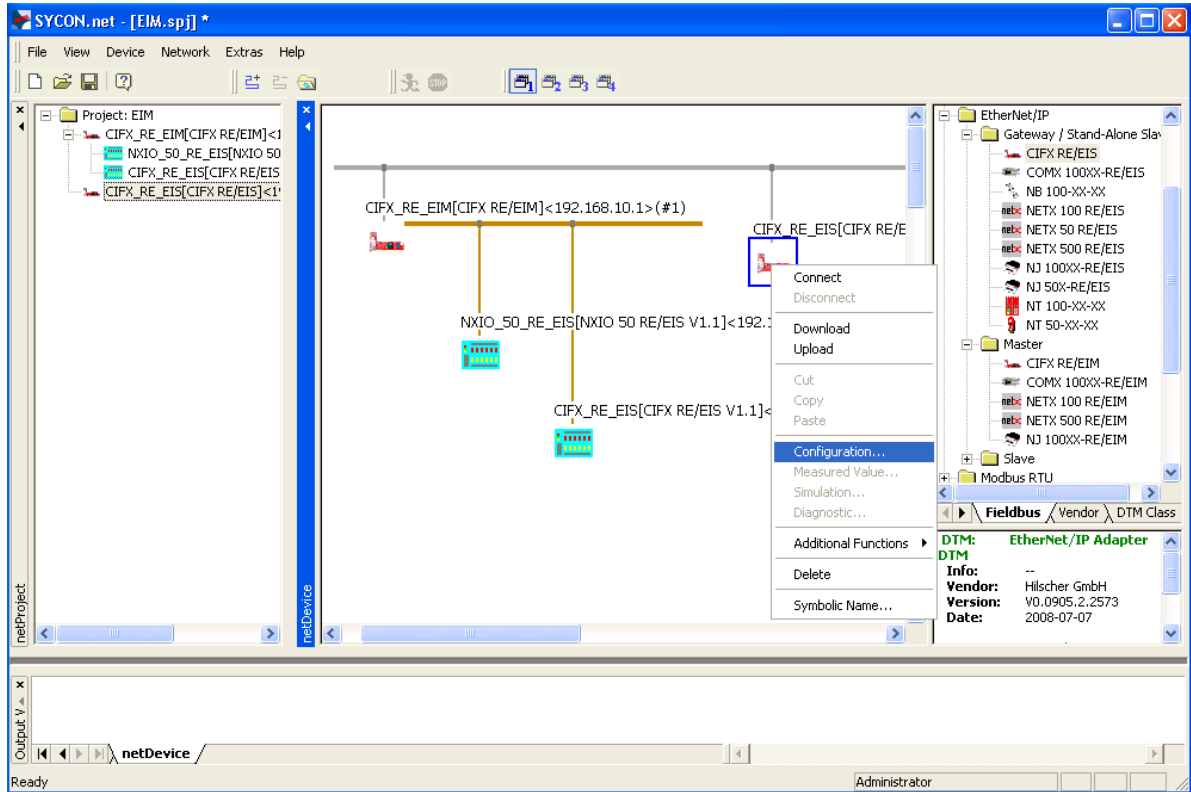
- In the **Navigation Area**, choose **Configuration > Connection**, then configure connections and I/O data for CIFX RE/EIS.





## 4.2.4 Configure Hilscher Stand-Alone Slave

1. Open Configuration window for **CIFX RE/EIS** slave.
  - Right-click on the slave device to open the context menu and choose **Configuration...**

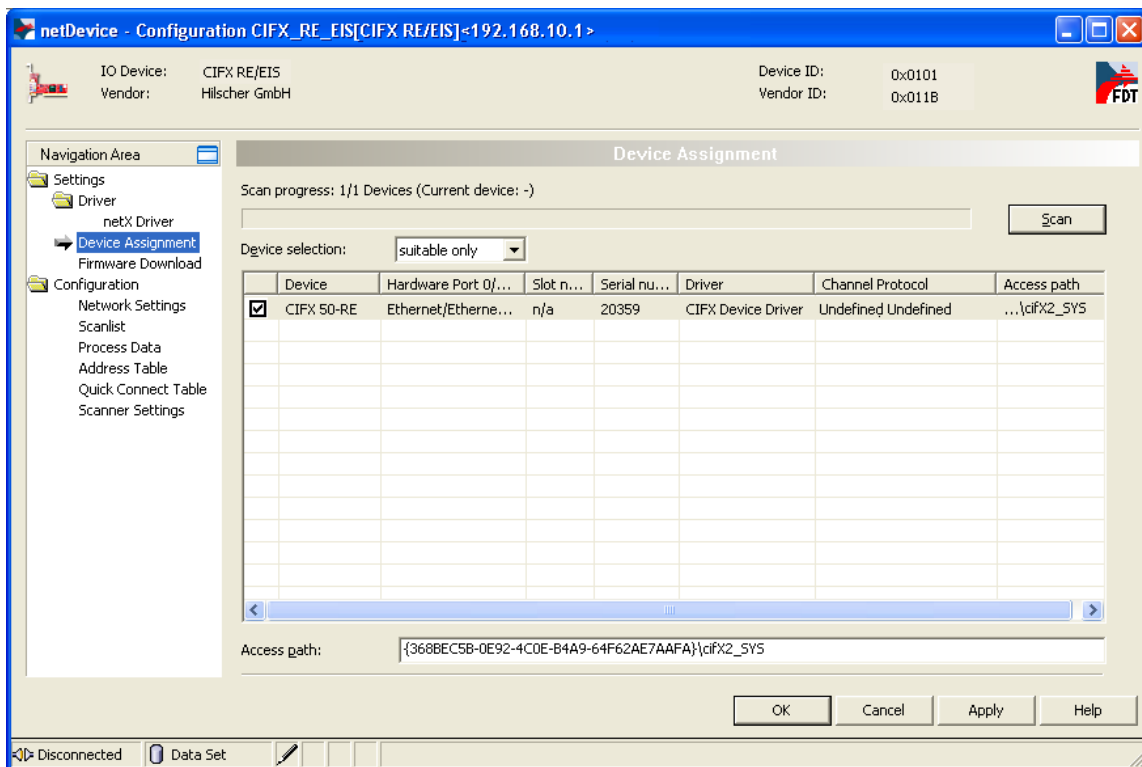


2. Select driver for accessing the slave device.
  - In the **Navigation Area**, choose **Settings > Driver** and select the appropriate driver.

In case of access via RS-232, USB or TCP/IP – i. e. via netX Driver – additional configurations are possible under **Settings > Driver > netX Driver**.

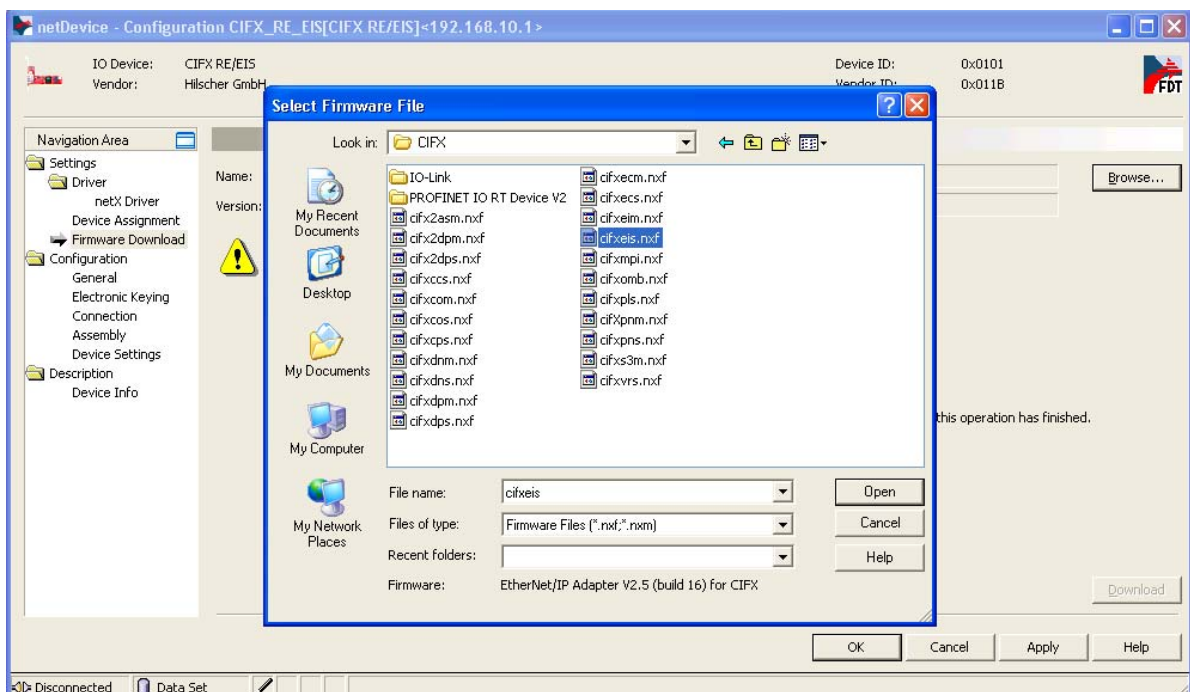


- In the **Navigation Area**, choose **Settings > Device Assignment** and scan for available Hilscher devices. Click **Scan** button.
- Choose the **CIFX 50-RE** by activating the check box ☒.



4. In case of PC cards: Select and load firmware.

- In the **Navigation Area**, choose **Settings > Firmware Download**, then select the appropriate firmware: **cifxeis.nxf**.
- Click **Open** button to load firmware into the hardware.



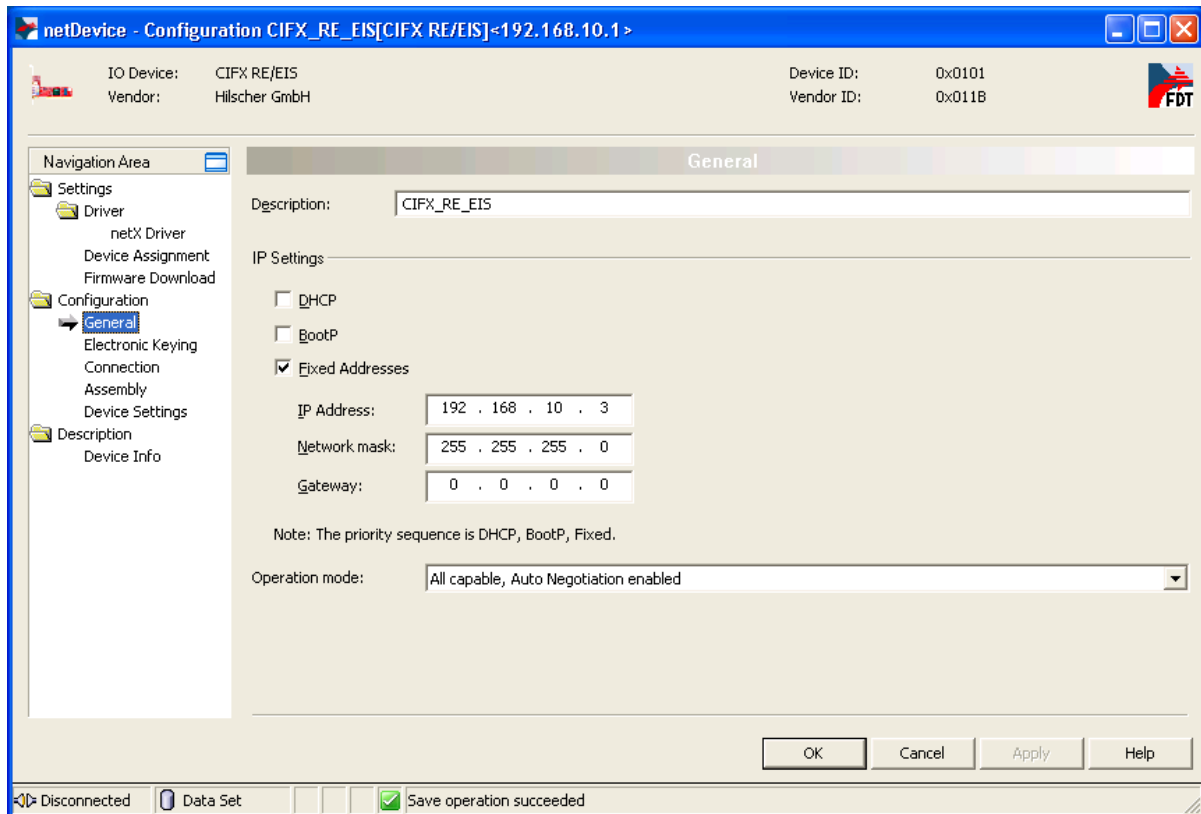


**Note:** Click **OK** to finally confirm the assignment of the PC card and the download of the firmware.

##### 5. Configure slave settings.

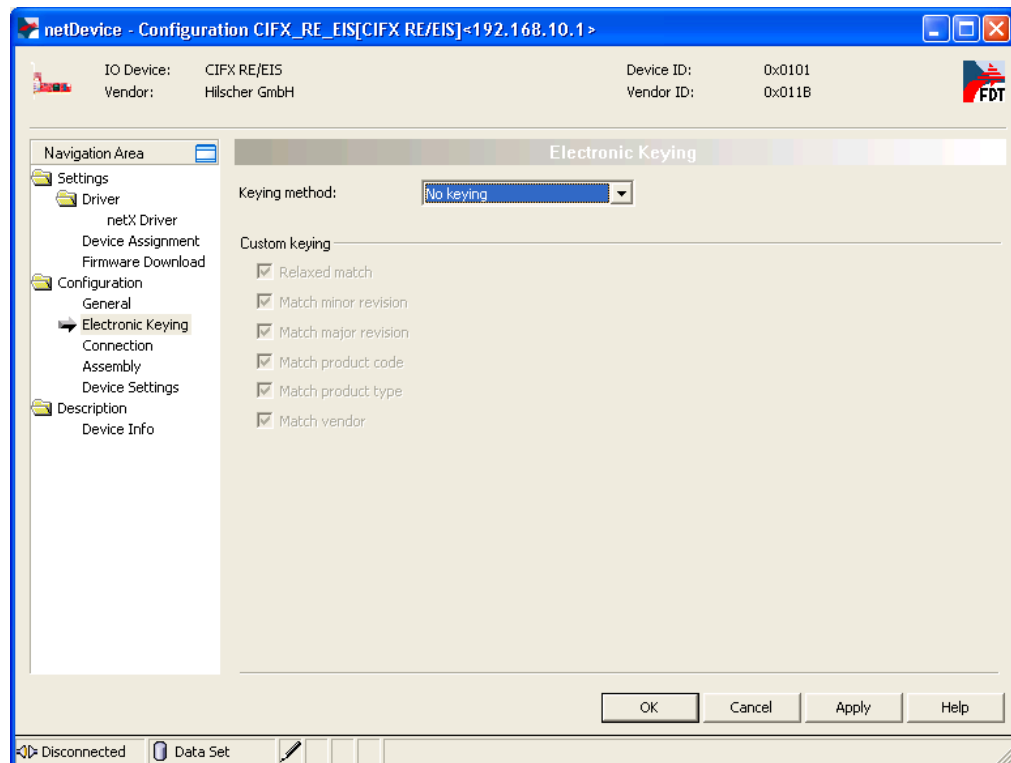
- In the **Navigation Area**, choose **Configuration > General**, then set the real IP address of the slave device.

The address must match the slave station name and the network configuration.



##### Configure Keying.

- In the **Navigation Area**, choose **Configuration > Electronic Keying**, then select Keying Method or disable Keying.



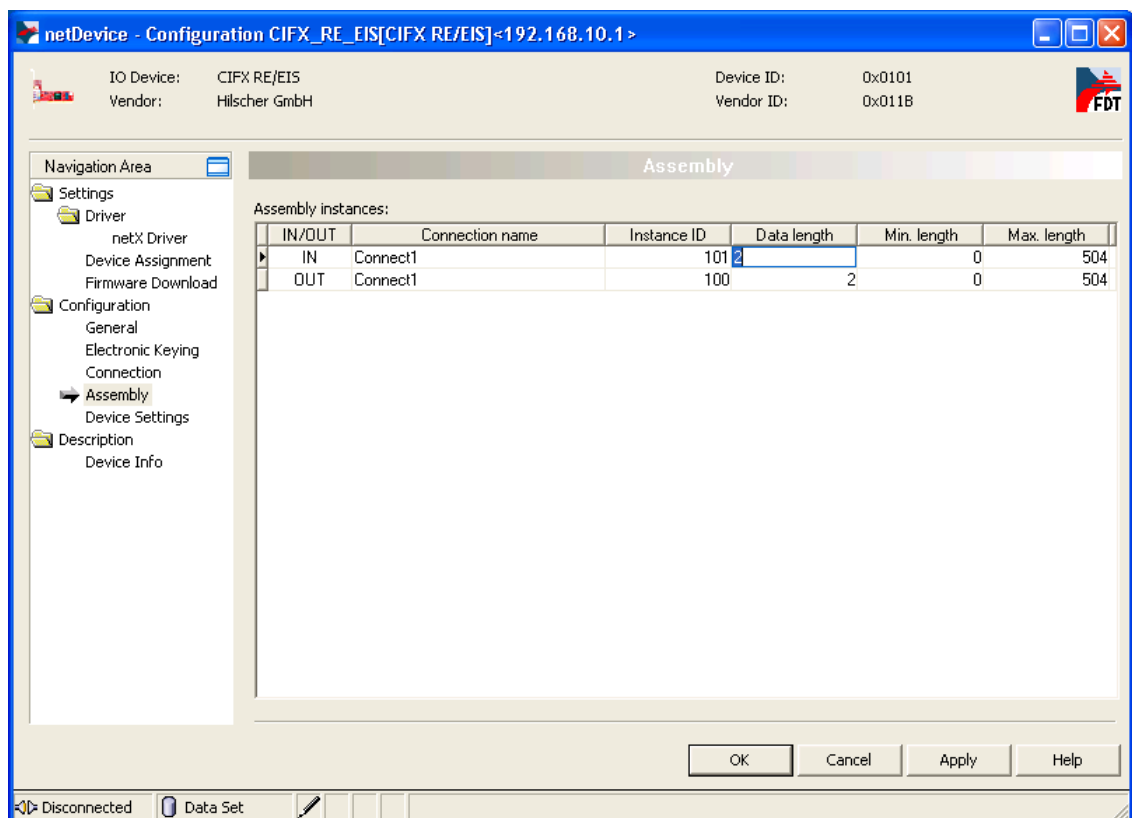
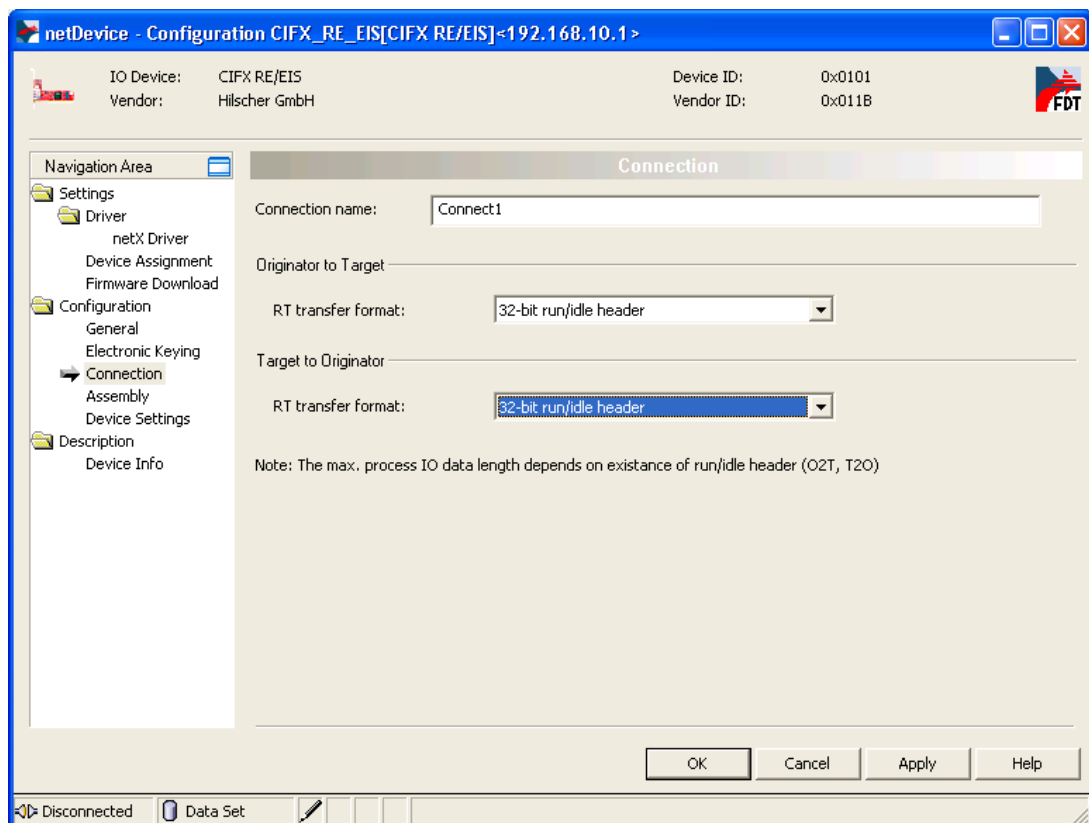
### 3. Configure I/O Data.

- In the **Navigation Area**, choose **Configuration > Connection**, then set the wanted connection (e. g. 32-bit run/idle header).
- I/O data for the CIFS RE/EIS can be freely configured, there are no pre-settings.

In the **Navigation Area**, choose **Configuration > Assembly**, then set the wanted I/O data, e. g. 2 byte input and 2 byte output.

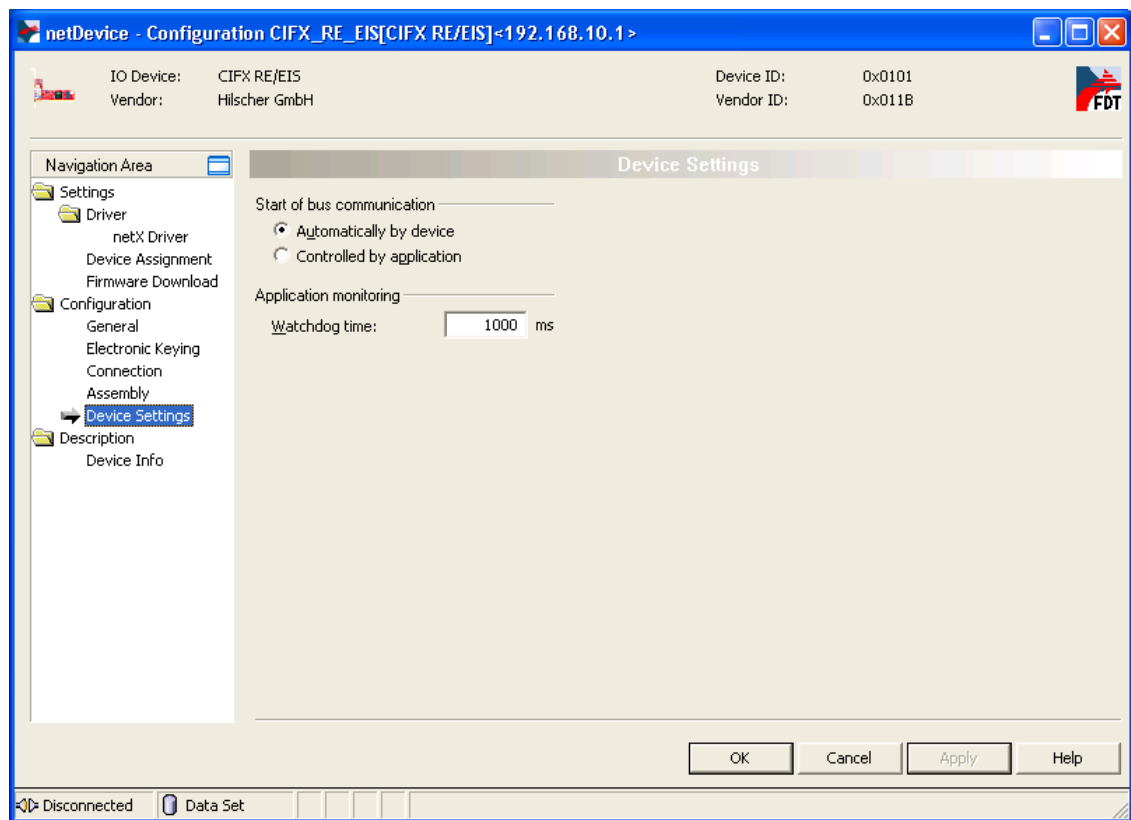
Make sure that these match the slave I/O data of the network configuration.





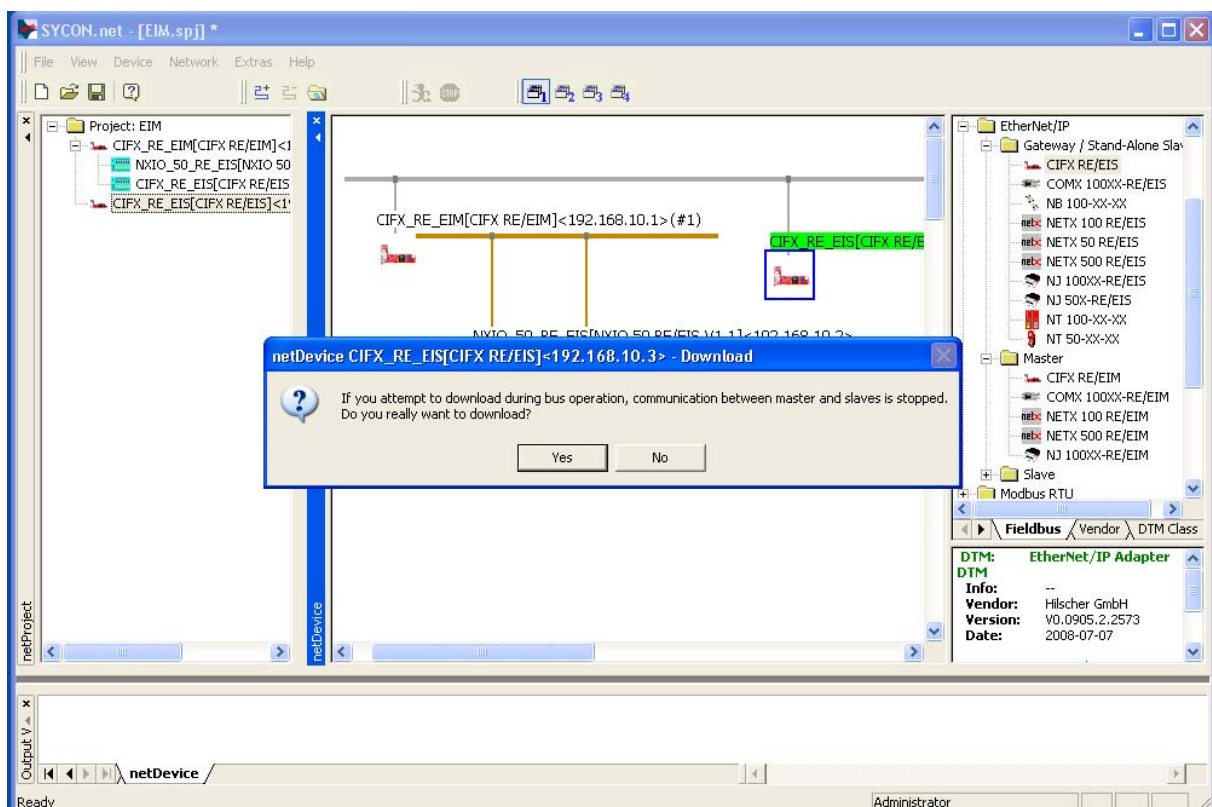
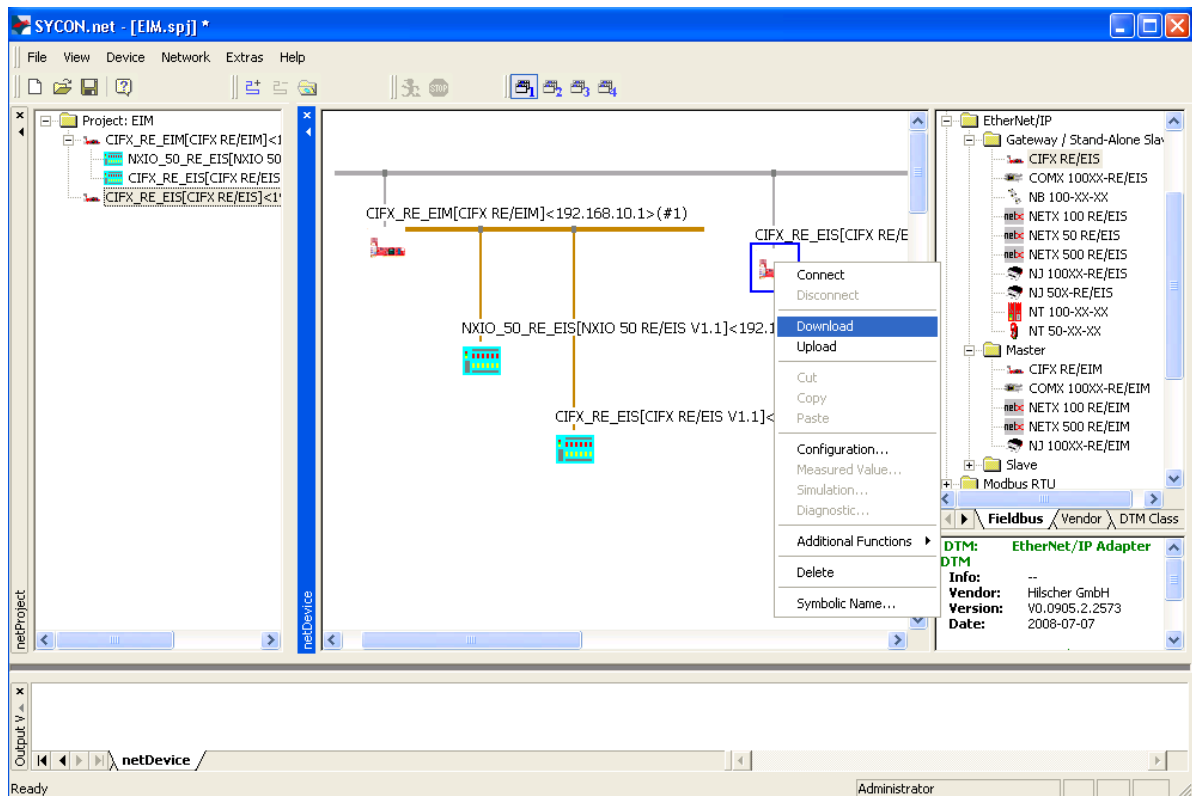
4. Configure device settings.

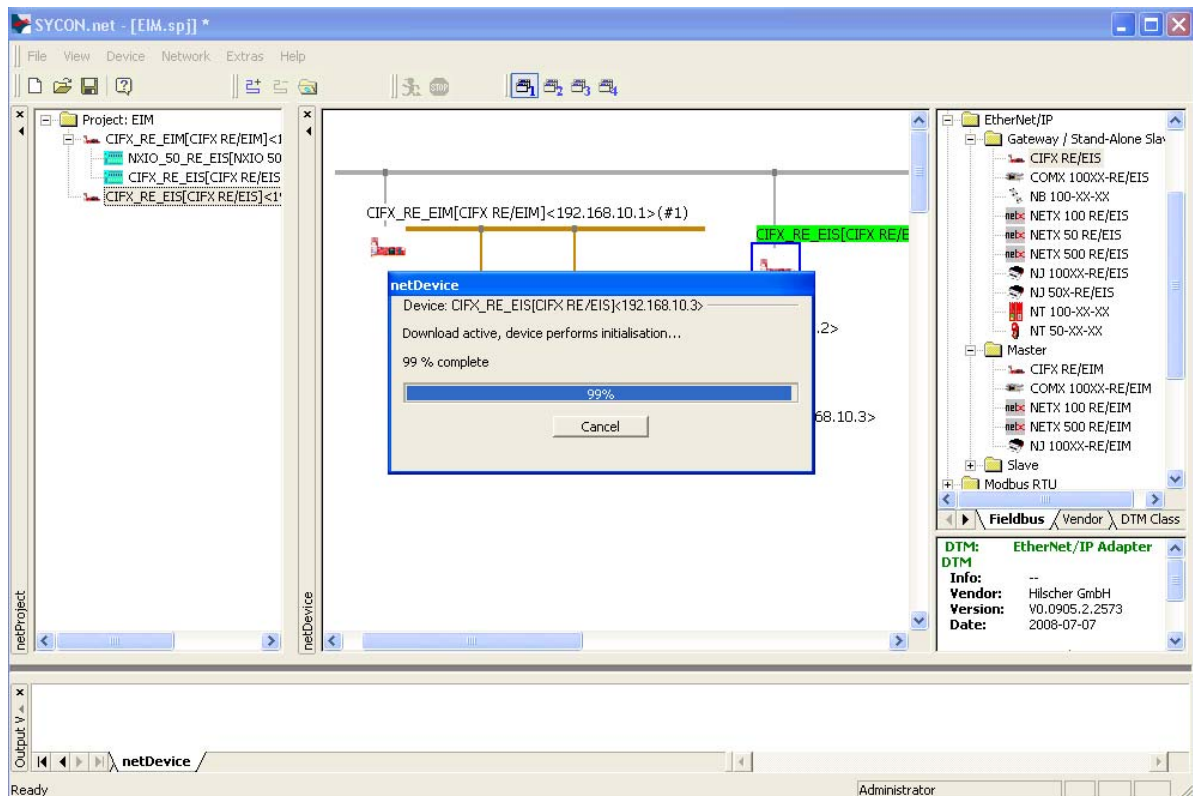
- Under **Configuration > Device Settings**, use the default settings.



5. Download configuration to Stand-Alone Slave

- Right-click on the Stand-Alone Slave device to open the context menu, then choose **Download**.



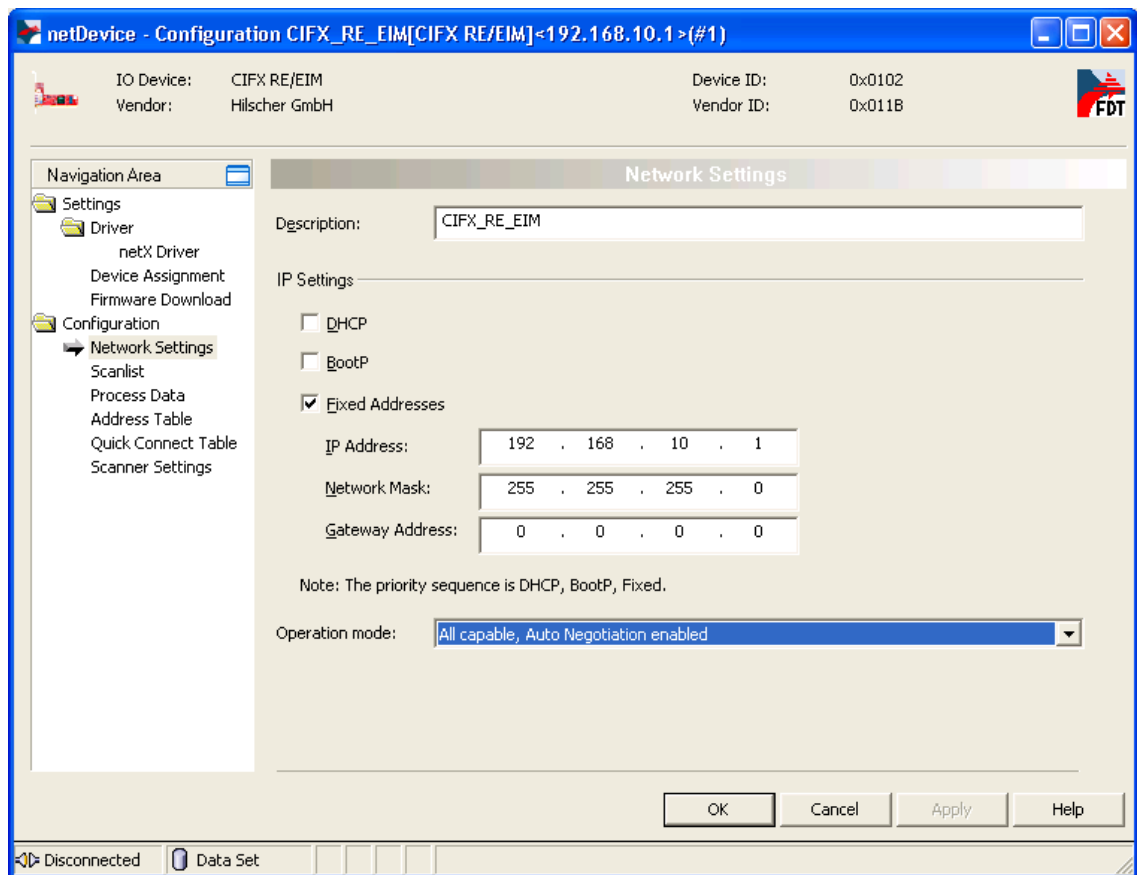


## 4.2.5 Configure Master



**Note:** The basic configuration of the CIFX RE/EIM and the NXIO 50-RE has already been carried out during configuration of Setup 1: CIFX 50-RE with NXIO 50-RE.

1. Open Configuration window for **CIFX RE/EIM** master.
  - Right-click on the master device to open the context menu, then choose **Configuration...**
2. Configure Scanner.
  - In the **Navigation Area**, choose **Configuration > Network Settings**, then set the IP addressing.

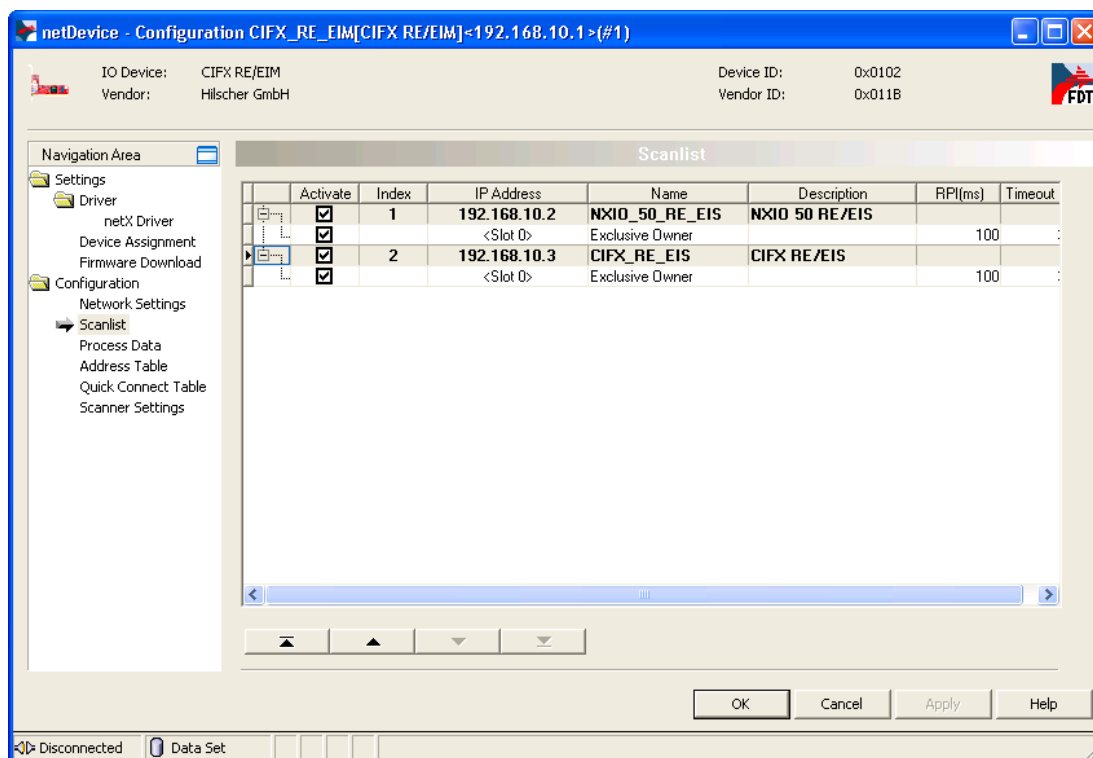


### 3. Configure IP address of slave.

- In the **Navigation Area**, choose **Configuration > Scanlist**, then set the IP address of the slave.
- In the **Scanlist** window, activate the slaves with which the master shall communicate.

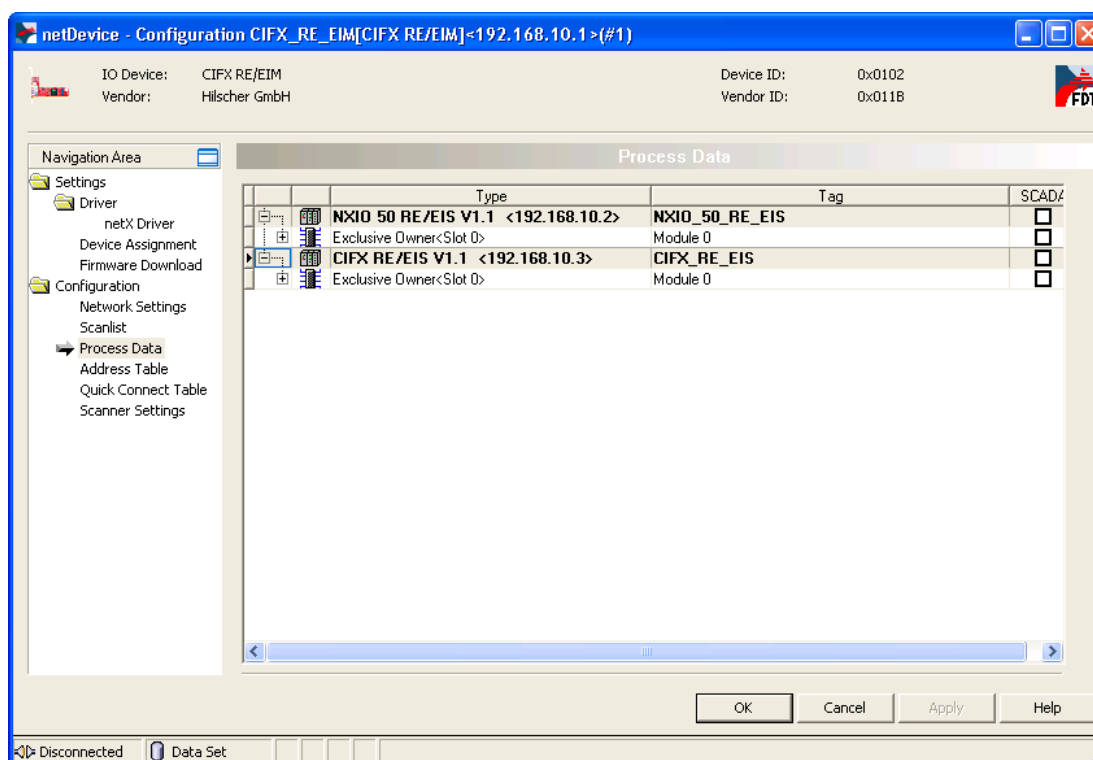


**Note:** The IP address of the slave must be identical with the set real IP address. The NXIO 50-RE can receive its address either from a DHCP server (rotary switch at NXIO) or it can be set by using the Ethernet Device Configuration tool.

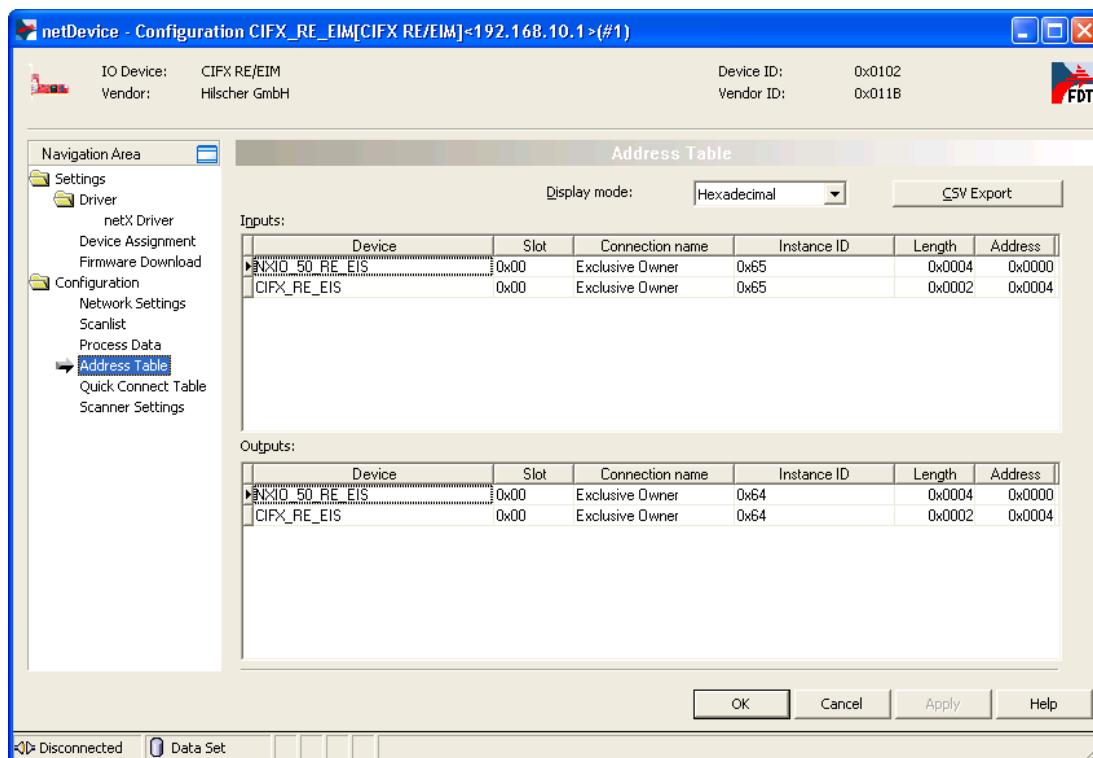


#### 4. Configure I/O data.

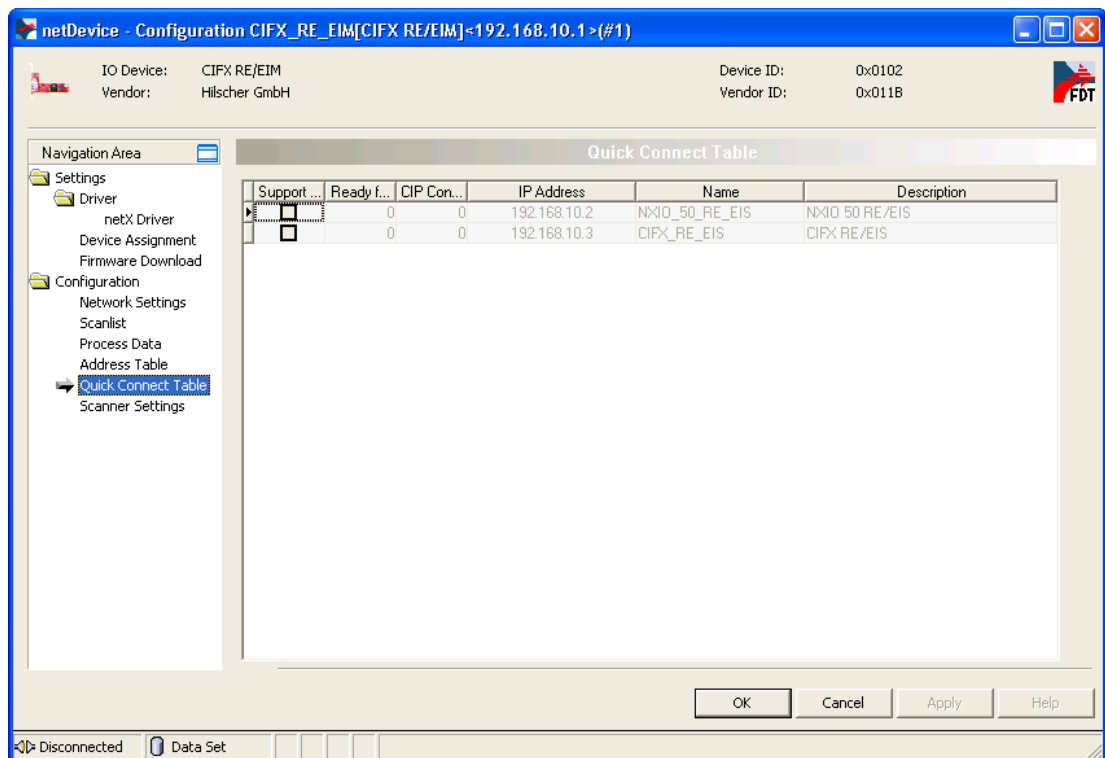
- In the **Navigation Area**, choose **Configuration > Process Data** to display the mapping of the input and output data.



- In the **Navigation Area**, choose **Configuration > Address Table** to display the length and instance of the input and output data.

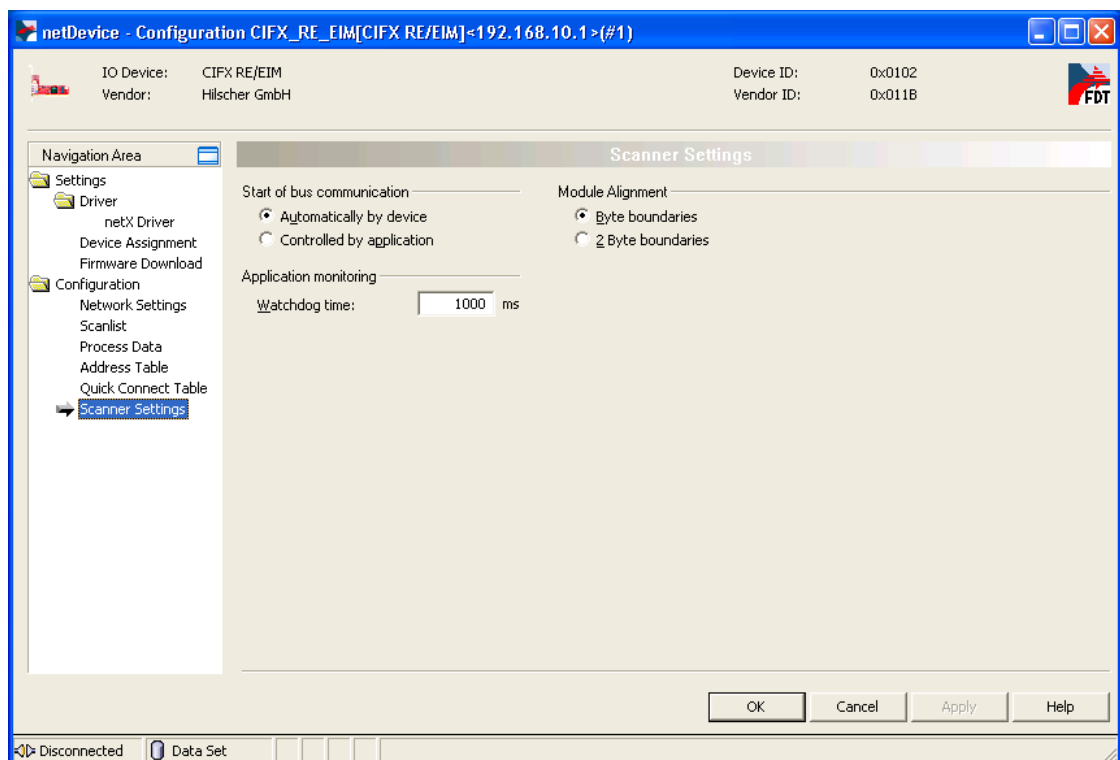


5. Configure Quick Connect.
- Under **Configuration > Quick Connect Table**, there are no settings to be made.



6. Configure master settings.

➤ Under **Configuration > Scanner Settings**, use the default-settings.



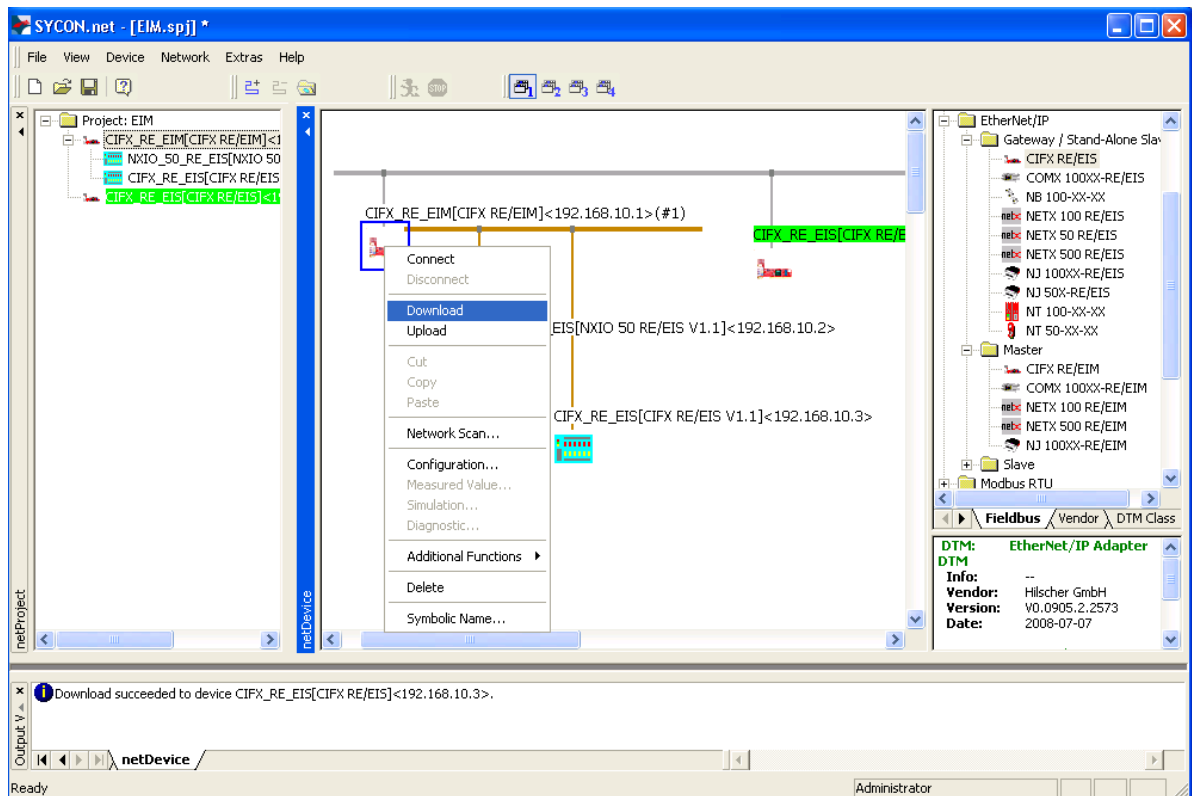


7. Download configuration to master.

- Right-click on the master device to open the context menu, then choose **Download**.



**Note:** After downloading the configuration, SYCON.net is connected to the master device for diagnostic purposes. The green highlighted display indicates an active connection to the master.



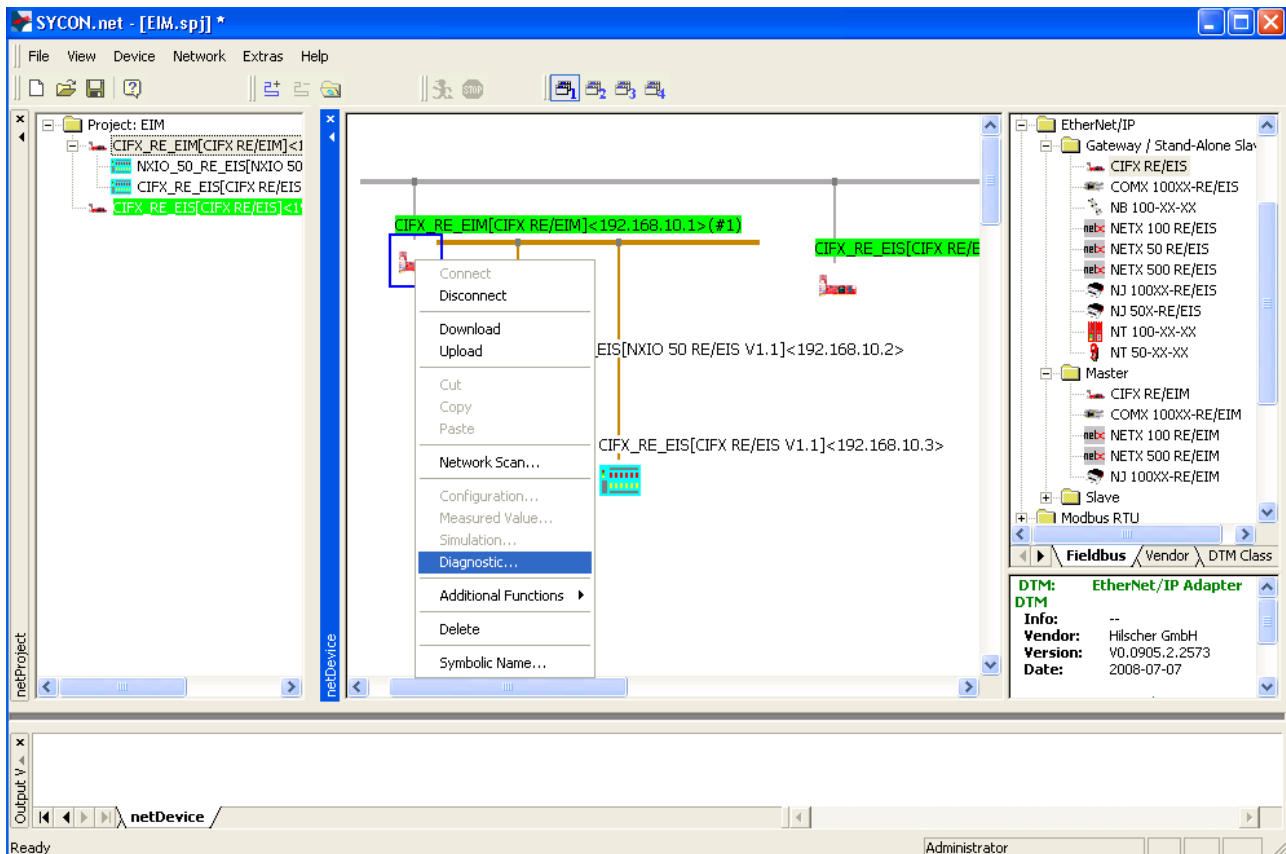
## 4.2.6 Diagnosis and Testing

### Diagnosis and testing with SYCON.net

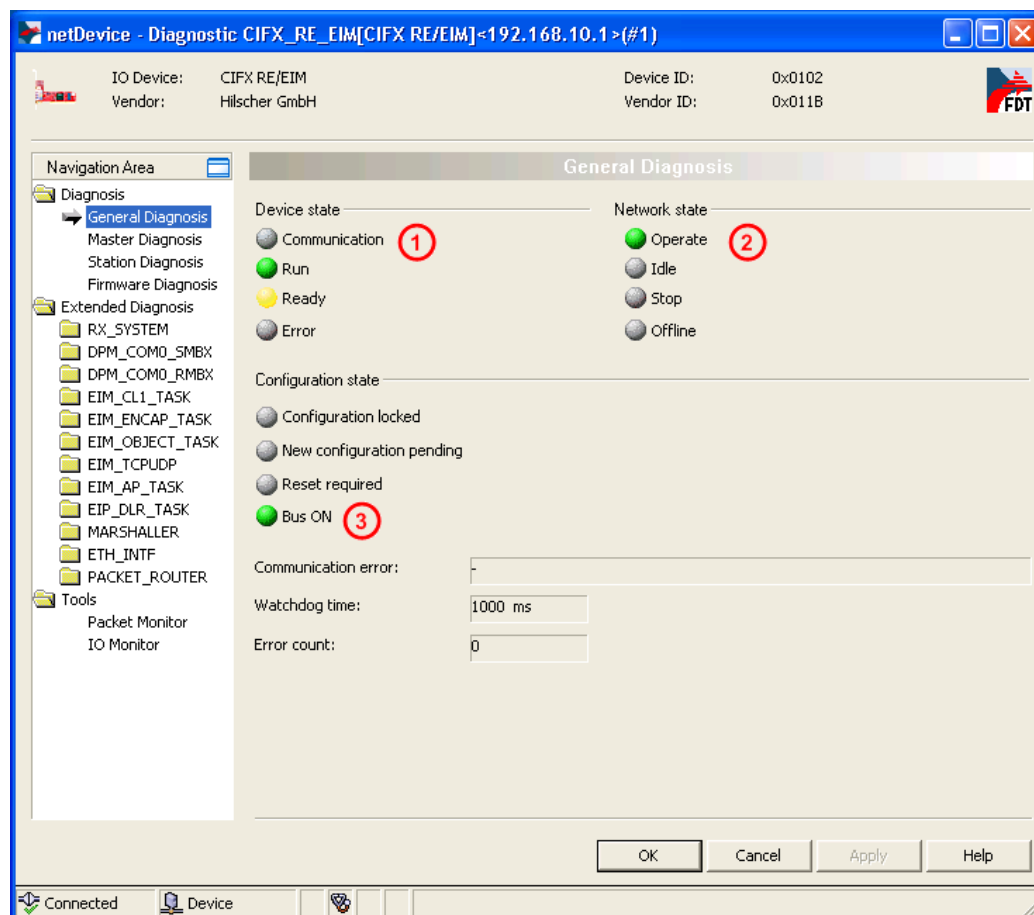
1. Connect with master and open diagnosis window for **CIFX RE/EIM**.
  - Right-click on the master device to open the context menu, then choose **Diagnostic...**



**Note:** After downloading the configuration, SYCON.net is automatically connected to the master device. If SYCON.net is not connected, right-click on the master device to open the context menu, then choose **Connect**.



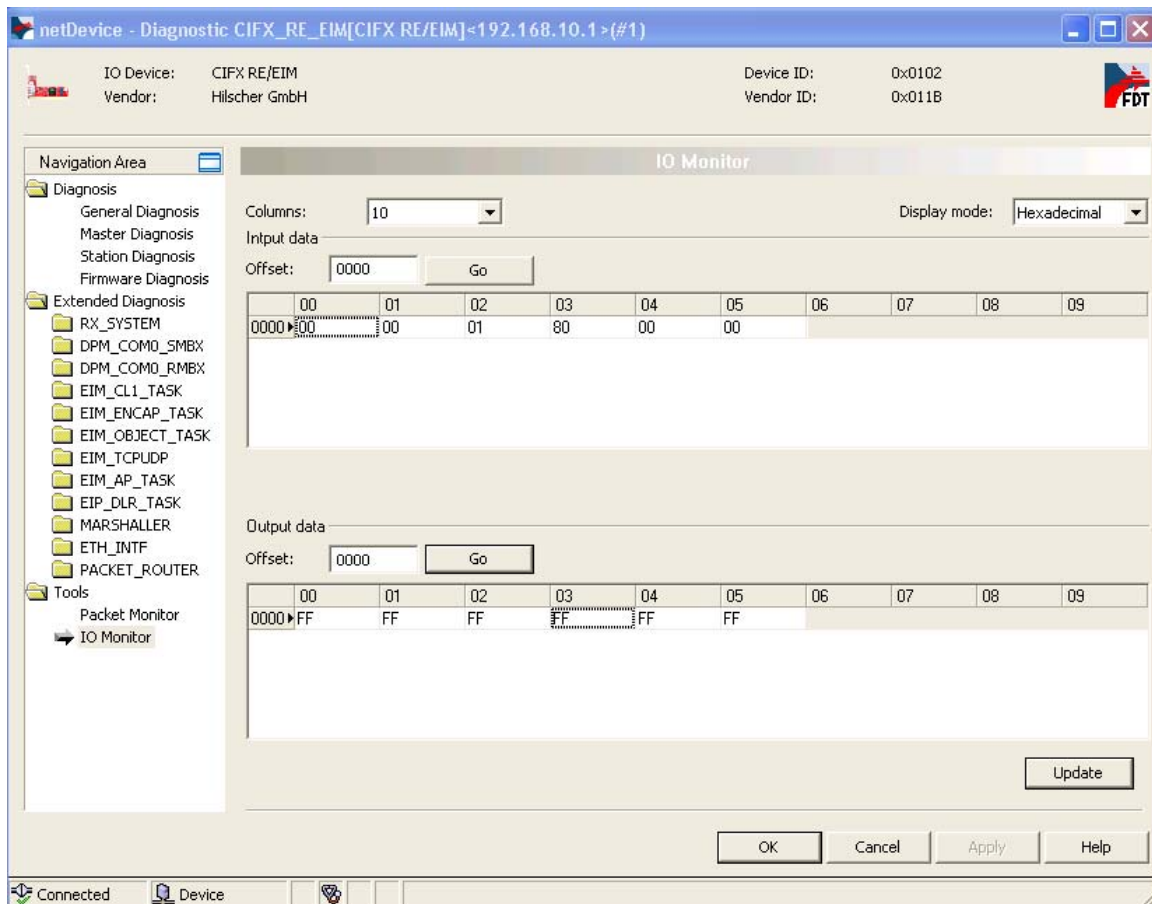
2. Check state of the network in **General Diagnosis** window.
  - In the **Navigation Area**, choose **Diagnosis > General Diagnosis**.
  - Check if there is a green light for **Device state > Communication** ①, **Network state > Operate** ② and **Configuration state > Bus ON** ③. This indicates a functioning communication.



3. Use IO Monitor to test the communication.

- In the **Navigation Area**, choose **Tools > IO Monitor**.
- Enter output data, then click **Update** button.

The input data area displays the received input data.



### Diagnosis and testing with cifX Test

#### 4. Start cifX Test auxiliary tool.

- In Windows, choose **Start > Control Panel > cifX Test**.

#### 5. Open the Hilscher device to which you want to establish a connection.

- In the menu, choose **Device > Open**.
- Select **cifX > Channel0**.  
Open the EtherNet/IP slave card.

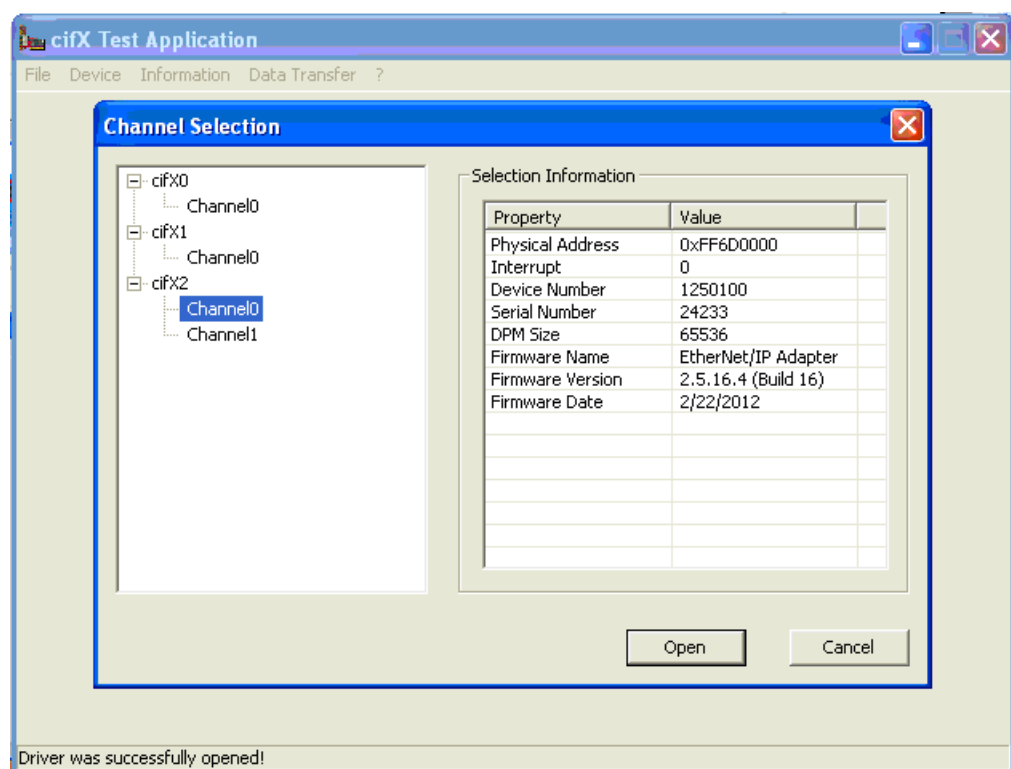
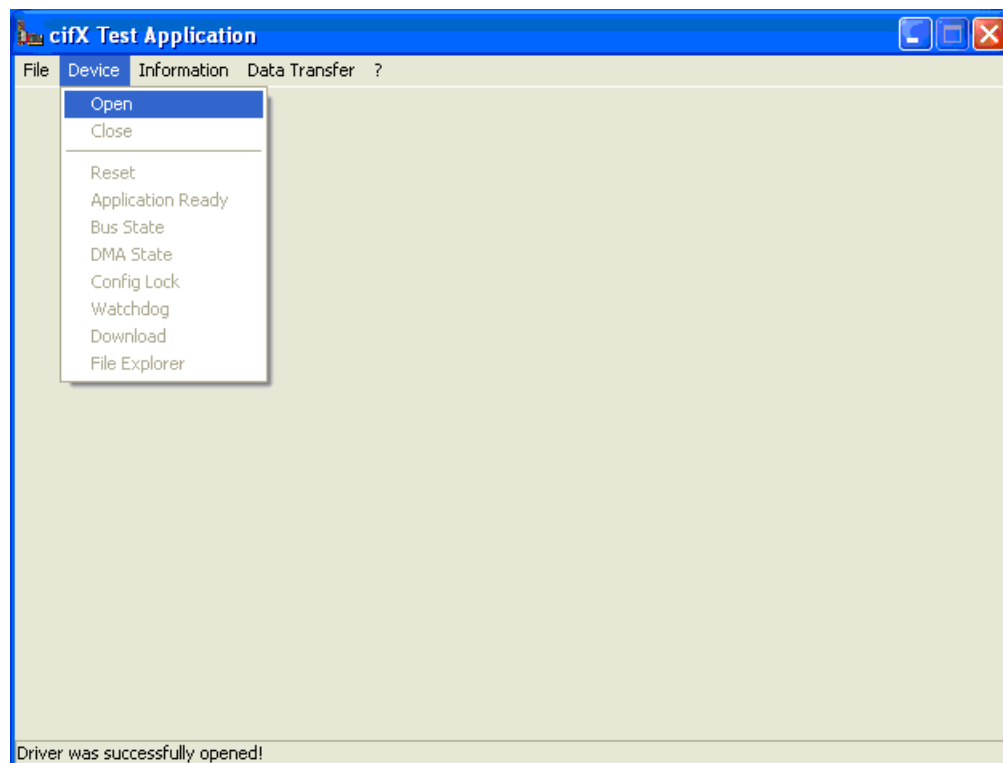


**Note:** If you open the cifX level, you can see and use all functions concerning the PC card, e. g. licenses.

If you open **cifX > Channel0**, you can see and use all functions concerning the communication channel, e. g. I/O data.



**Note:** You can run several instances of the cifX Test application simultaneously. Thus you can connect to the master (CIFX RE/EIM) and the slave (CIFX RE/EIS) at the same time, and exchange data between the two devices.

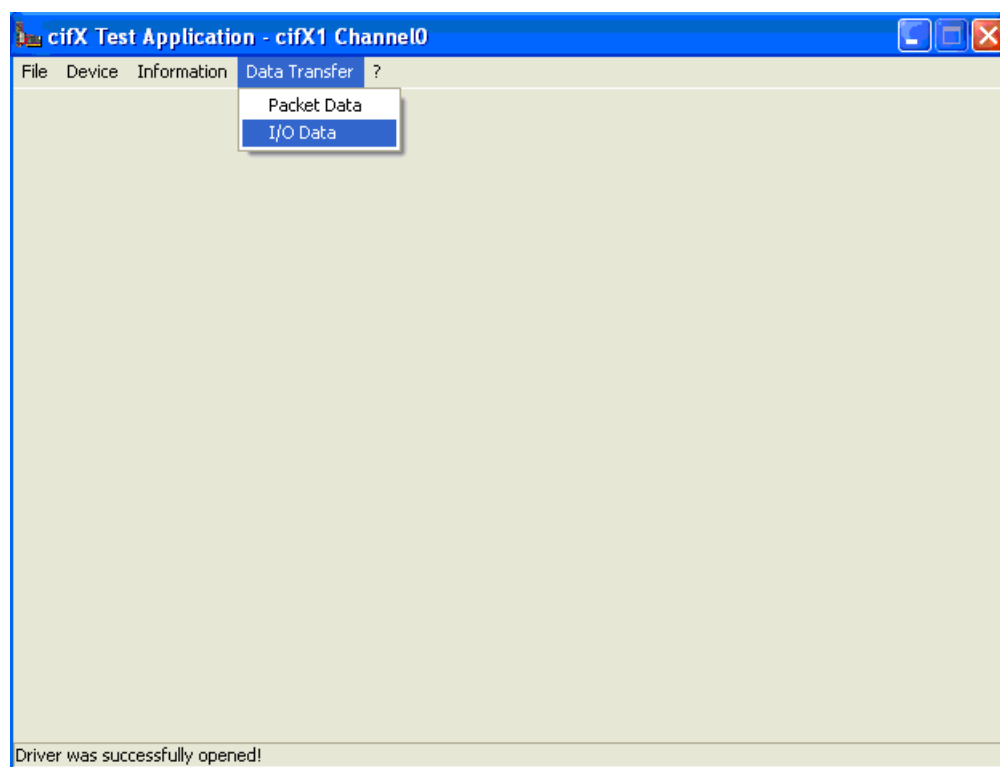


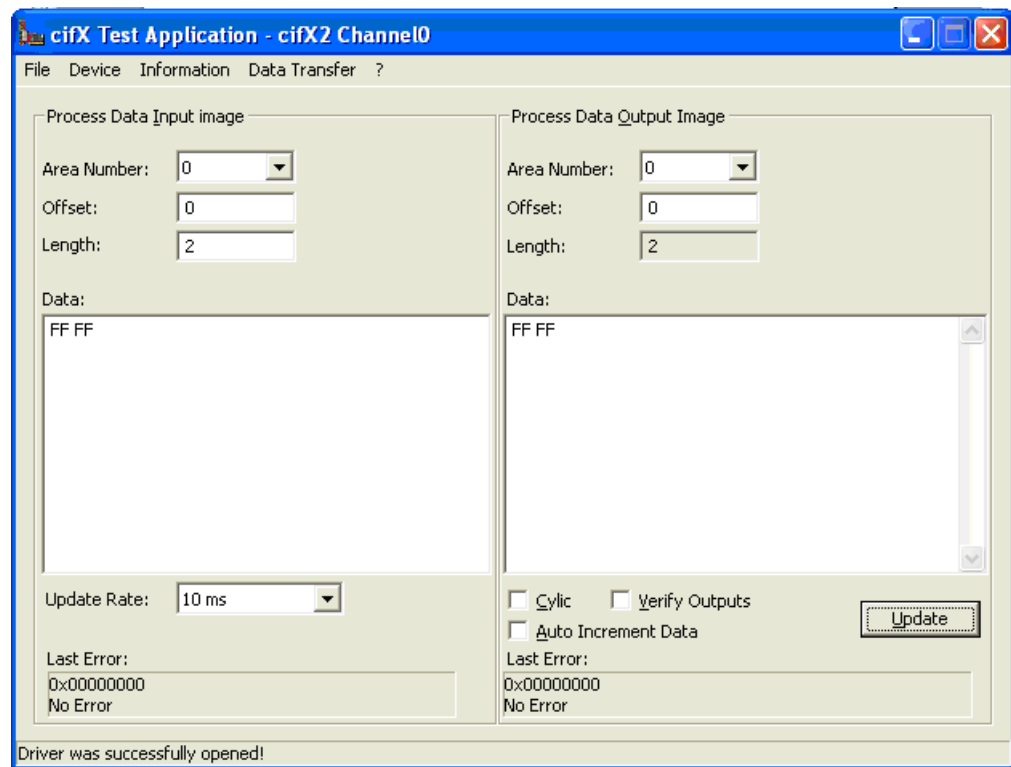
6. I/O data exchange.

- In the menu, choose **Data Transfer > I/O Data**.
- Set output data, then click **Update**,  
e. g. FF FF FF FF.
- Data is transferred to the CIFS RE/EIS and sent to the master via  
Ethernet/IP network.
- Enter the length of the input data to be displayed in the cifX Test  
auxiliary tool, e. g. "2".
- Send data from the master (e. g. via I/O Monitor or cifX Test), then use  
the cifX Test auxiliary tool to watch the data incoming at the slave.



**Note:** Observe the data length. It must comply with the configuration.  
With the output data, you can try **cyclic** and **auto increment**.





## 5 Tips and Tricks

### 5.1 Checking, Setting and Reordering a License

1. Check license, reorder license and set license.
- Right-click on the master device to open the context menu, then choose **Additional Functions > License**.

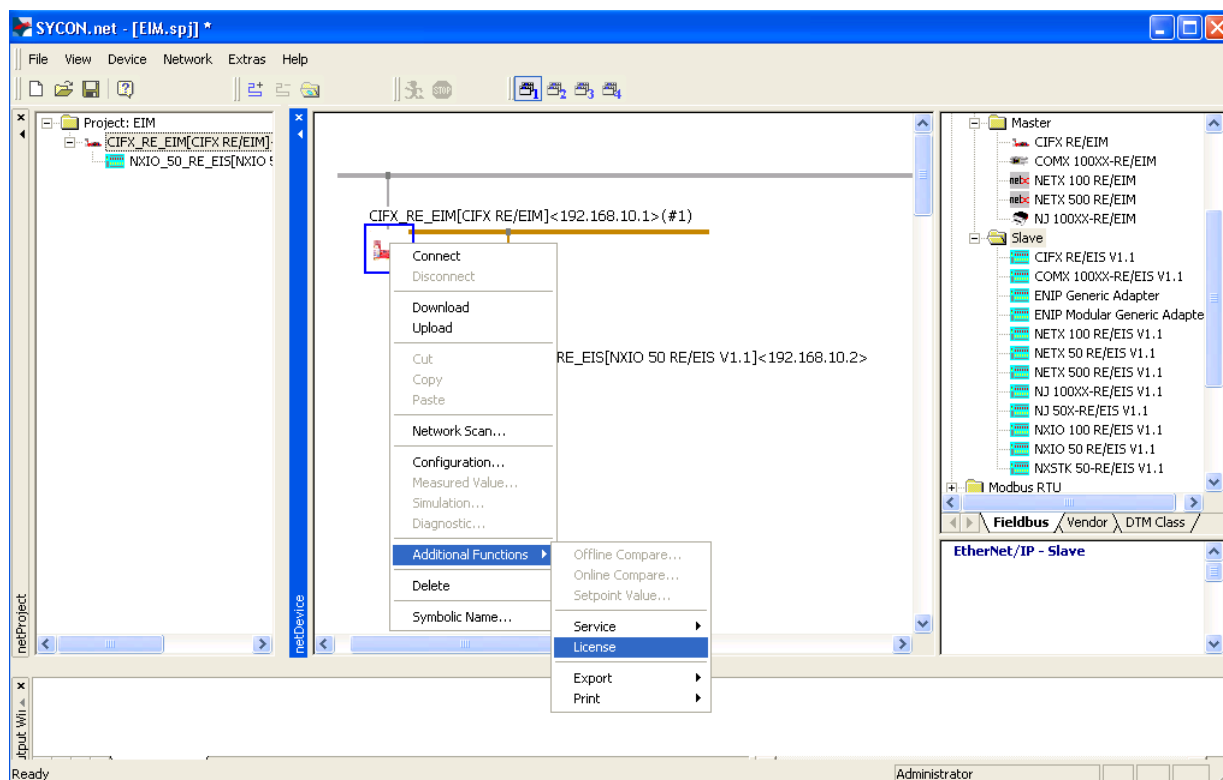


**Note:** To use this function, make sure that SYCON.net is **not** connected to the master for diagnostic purposes. You possibly have to disconnect. To do so, right-click on the master device to open the context menu, then choose **Disconnect**.



**Note:** Licenses can easily be reordered by simply exporting the filled-in form and handing it over to Hilscher, as if in an ordinary ordering process. Use the **Export License Request...** button for this.

A license is delivered as a license file with the ending **.nxi**. It can be transferred to the device from the same dialog sheet by clicking the **Download License** button.





netDevice - License CIFX\_RE\_EIM[CIFX RE/EIM]-192.168.10.1>{#1}

License Type

	Existing	Order
<b>Master protocols</b>		
One General Master License	NO	<input type="checkbox"/>
Two General Master Licenses	NO	<input type="checkbox"/>
PROFIBUS Master	YES	<input type="checkbox"/>
CANopen Master	YES	<input type="checkbox"/>
DeviceNet Master	YES	<input type="checkbox"/>
AS-Interface Master	YES	<input type="checkbox"/>
PROFINET IRT Controller	YES	<input type="checkbox"/>

Request Form, please fill out

Name	Value
License type	User Single Device License
Manufacturer*	0x0001
Article number*	1250100
Serial number*	20359
Chiptype*	0x00000001
Step*	0x00000000
Romcode revision*	0x00000000

Fields marked with "\*" are mandatory.

Hilscher Germany

E-mail... license@hilscher.com

Print Fax Form... +49 6190 9907-50

Telephone... +49 6190 9907-0

Export License Request...

Download License

Close Help

## 5.2 Setting IP Addresses of EtherNet/IP Devices

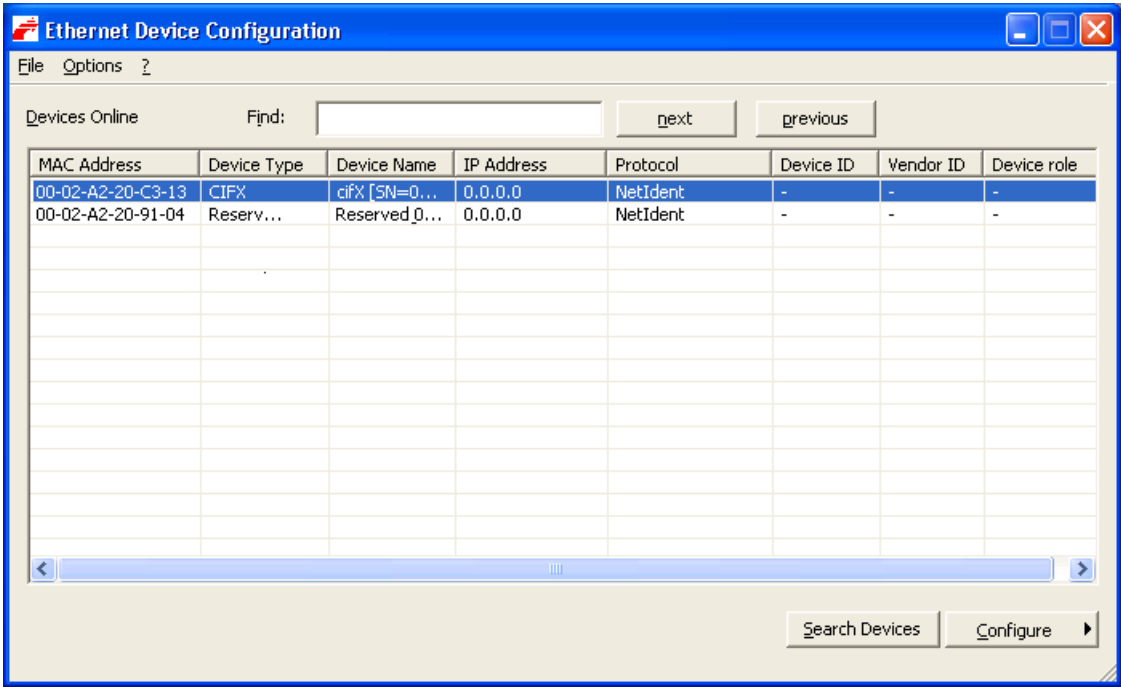
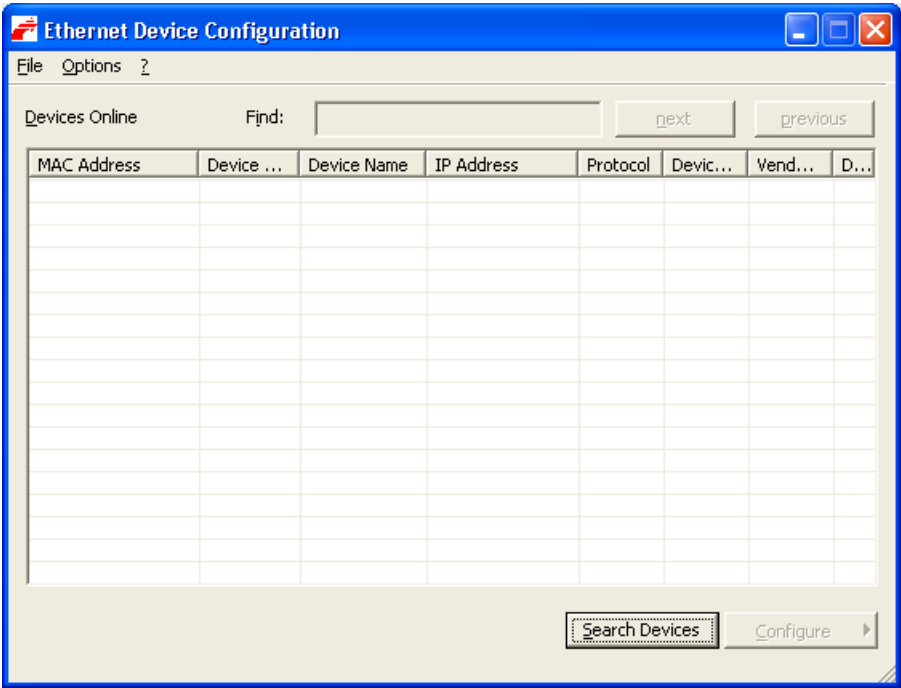
### By using Ethernet Device Configuration auxiliary tool

1. Start Ethernet Device Configuration.
  - In Windows, choose **Start > All Programs > SYCON.net System Configurator > Ethernet Device Setup**.
  - Click **Search Devices** button to scan for connected Ethernet devices and set station names and IP addressing.

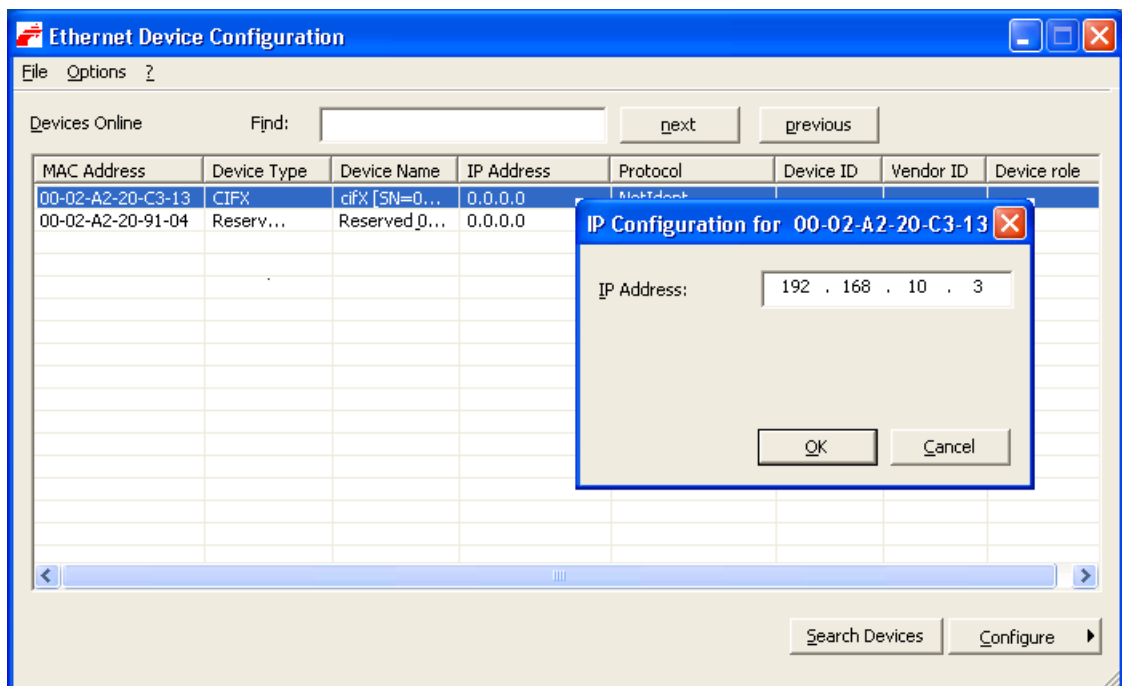


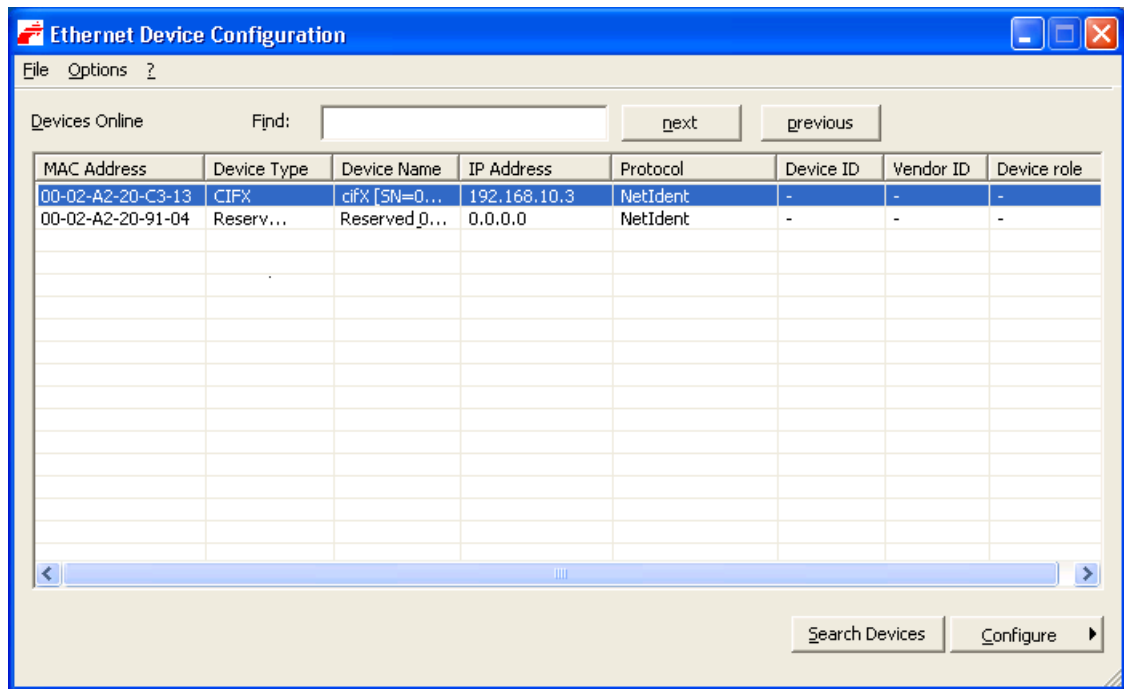
**Note:** The Ethernet devices must be connected to your network adapter card via a suitable cable.

- Click **Search Devices** button to scan for connected Ethernet devices and set the IP addressing.



- [illegible]





**Note:** With the **Signal** option, PROFINET devices can be identified by a flashing light.

## 6 Contacts

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