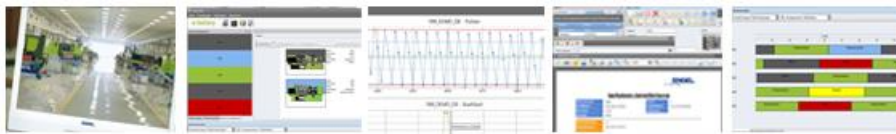


# Installation Guide Euromap63

Version: 20200107



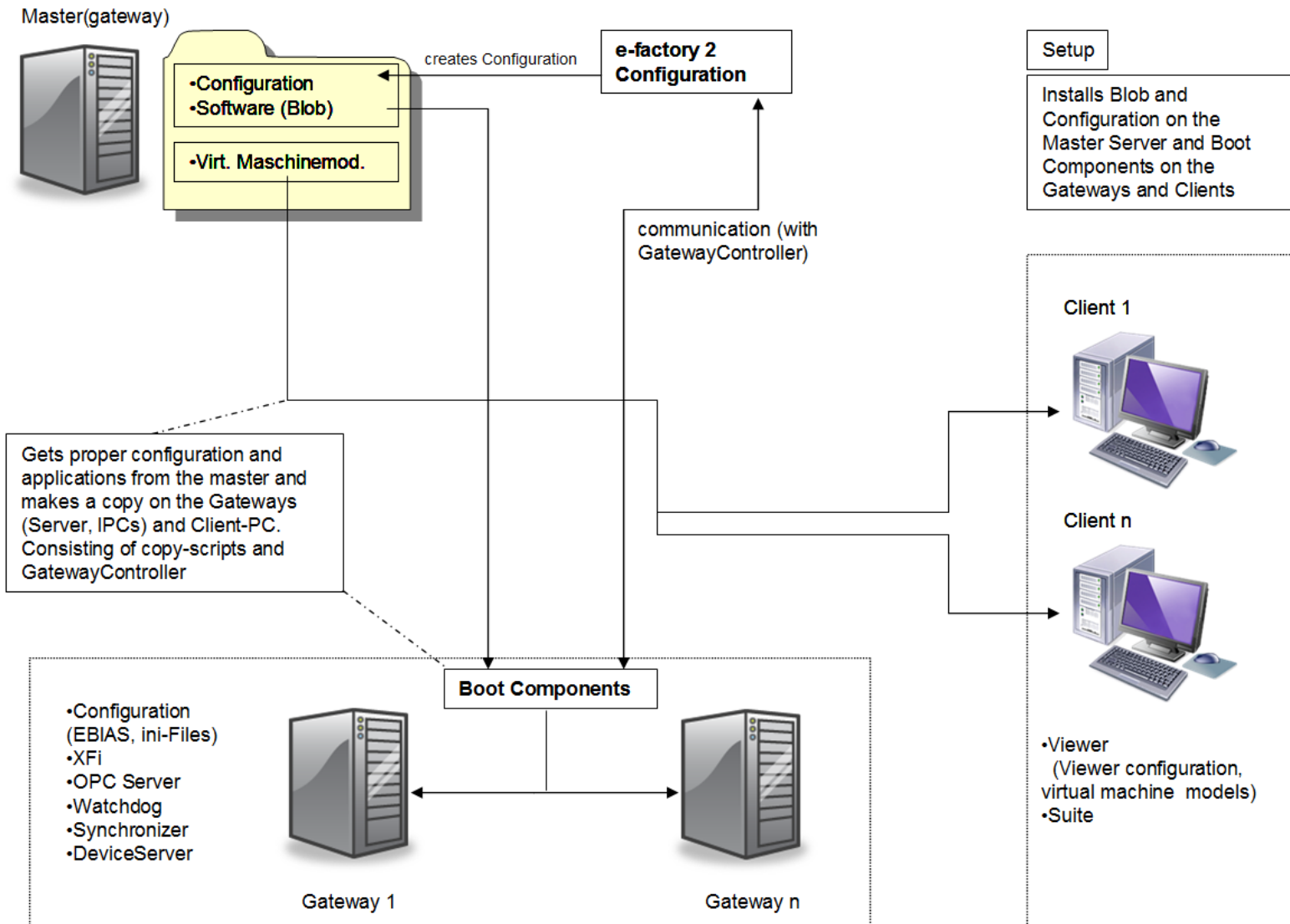
|                                                    |           |
|----------------------------------------------------|-----------|
| <b>1. Introduction</b>                             | <b>1</b>  |
| <b>1.1. Central Configuration and distribution</b> | <b>1</b>  |
| <b>1.2. Architecture</b>                           | <b>2</b>  |
| <b>1.3. Description:</b>                           | <b>2</b>  |
| <b>1.4. Manual usage:</b>                          | <b>2</b>  |
| <b>2. New installation euromap63</b>               | <b>3</b>  |
| <b>3. Add a Gateway to an existing system</b>      | <b>4</b>  |
| <b>4. Update Euromap63</b>                         | <b>5</b>  |
| <b>5. IPC installation</b>                         | <b>6</b>  |
| <b>6. Detailed information</b>                     | <b>7</b>  |
| <b>6.1. Install E63 Interface</b>                  | <b>7</b>  |
| 6.1.1. Master Blob Installation                    | 7         |
| 6.1.2. Gateway Installation                        | 12        |
| <b>6.2. Add Gateway</b>                            | <b>16</b> |
| 6.2.1. Add Gateway – Automatic                     | 17        |
| 6.2.2. Add Gateway – Manual                        | 19        |
| <b>6.3. Installation W&amp;T Redirect</b>          | <b>21</b> |
| <b>6.4. Installation WUtility</b>                  | <b>22</b> |
| <b>6.5. Add Machine</b>                            | <b>24</b> |
| 6.5.1. CC300                                       | 24        |
| 6.5.2. CC200                                       | 30        |
| 6.5.3. Add Machine C100 – TCP/IP                   | 35        |
| 6.5.4. Add machine C100 – Host                     | 40        |
| 6.5.5. Add Machine C100 – PC-Host                  | 45        |
| 6.5.6. Settings COM Server at CC100 TCP/IP – Slip  | 50        |
| 6.5.7. Settings COM Server at CC100 Host/PC-Host   | 56        |
| 6.5.8. Configuration COM-Redirect                  | 59        |
| <b>6.6. Save Configuration</b>                     | <b>64</b> |
| <b>6.7. Perform Update</b>                         | <b>65</b> |
| <b>6.8. Close System</b>                           | <b>69</b> |
| 6.8.1. Close Gateway Controller                    | 69        |
| 6.8.2. Watchdog → Exit and close all XFI's         | 69        |

|                                                                                                             |           |
|-------------------------------------------------------------------------------------------------------------|-----------|
| <b>6.9. Configure IPC IP-address</b>                                                                        | <b>70</b> |
| 6.9.1. Change IP configuration directly via Monitor, USB-Mouse and USB-Keyboard                             | 70        |
| 6.9.2. Change IP configuration remotely                                                                     | 72        |
| 6.9.3. Changing the IP settings considering the "File based write filter" (Directly or with Remote Desktop) | 76        |
| <b>6.10. Check IPC name</b>                                                                                 | <b>80</b> |
| <b>6.11. IPC wiring</b>                                                                                     | <b>83</b> |
| 6.11.1. Company network → backside of the panel                                                             | 83        |
| 6.11.2. Company network → Switch                                                                            | 84        |
| 6.11.3. Switch → Panel                                                                                      | 85        |
| Switch → IPC                                                                                                | 86        |
| 6.11.4. Panel → Cube                                                                                        | 87        |
| 6.11.5. Enter static IP address CC300                                                                       | 88        |
| <b>6.12. Look up machine parameters on CC200 and CC300</b>                                                  | <b>90</b> |
| 6.12.1. Search CC200 parameters:                                                                            | 90        |
| 6.12.2. Search CC300 parameters:                                                                            | 94        |

# 1. Introduction

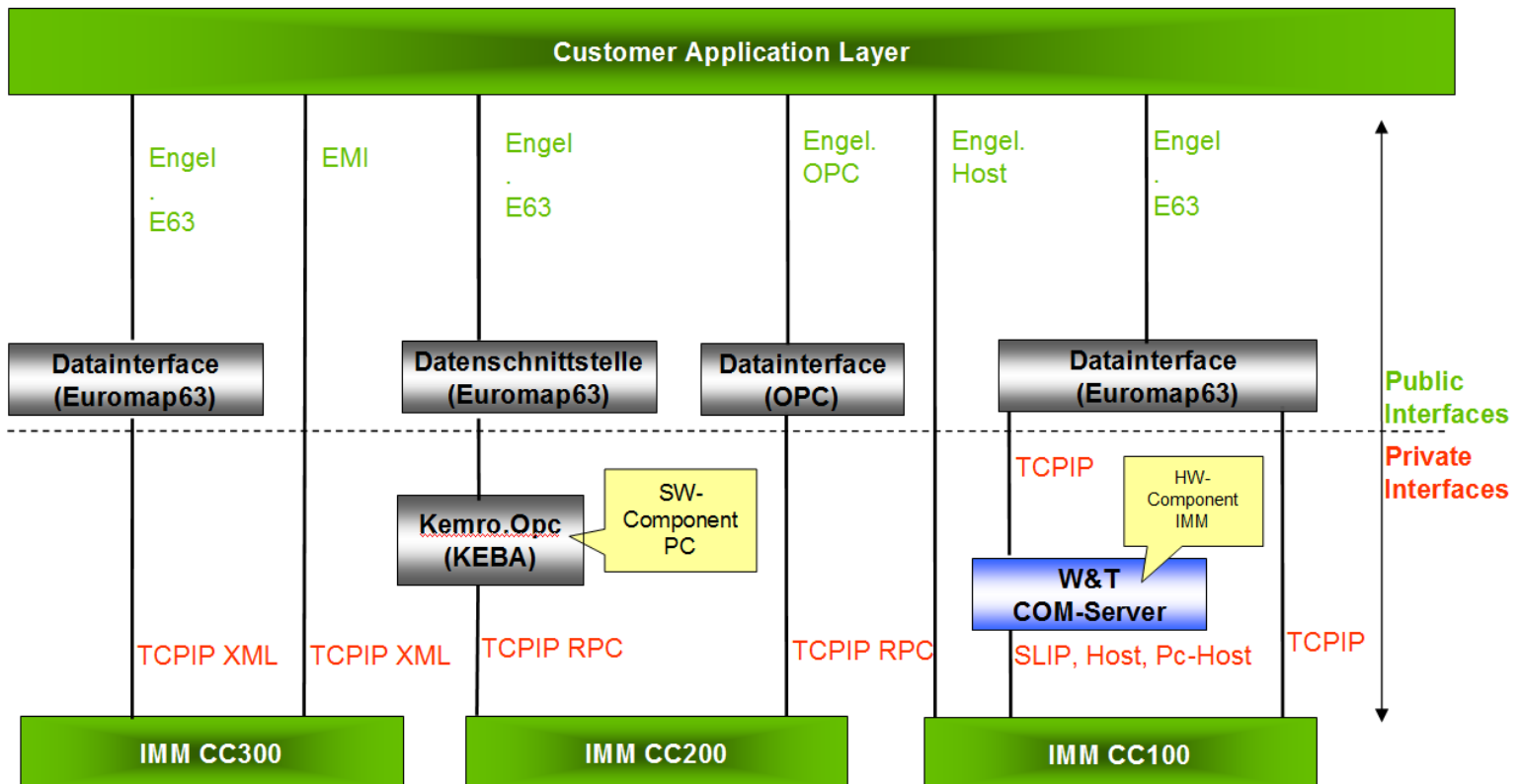
## 1.1. Central Configuration and distribution

### Central configuration and distribution



The central architecture allows us to make the configuration just once. It is saved on the Master server and shared to the Gateways or Clients afterwards. Of course it is also possible to install the system on only one server (single-server installation)

## 1.2. Architecture



## 1.3. Description:

The main architecture is separated in two parts. The communication of the application to the interfaces (Euromap63, OPC) which is shown as the upper green part of the picture and the communication of the interfaces with the machine. This works either directly or over an additional interface (Kemro.Opc, COM-Server) which belongs to the red part of the picture.

Nearby every connection you can see the used protocol. This information is important to integrate the machines to our system.

## 1.4. Manual usage:

The chapters 2, 3, 4 and 5 represent the different use cases for the software. Please pick your relevant topic and follow the instructions.

## 2. New installation euromap63

Note: If you follow the hyperlink to the explanation you can jump back to the guide with the key combination Alt + left (arrow key).

1. [Installation Master Blob](#) (s. a. chapter 6.1.1)
2. [Installation Gateway Server](#) (s. a. chapter 6.1.2)
3. [Scan Gateway](#) (s. a. chapter 6.2)
4. Optional (according machine type)
  - a. [Installation W&T Redirect](#) (with CC100 Host & PC-Host (s. a chapter 6.36.4))
  - b. [Installation WUtility](#) (with CC100 Host & PC-Host or SLIP (s. a chapter 6.4))
  - c. [Add machine CC300](#) (s. a. chapter 6.5.1)
  - d. [Add machine CC200](#) (s. a. chapter 6.5.2)
  - e. [Add machine CC100> TCP/IP](#) (s. a. chapter 6.5.3)
    - i. [With CC100 – SLIP: COM Server configuration](#) (s. a. chapter 6.5.6)
  - f. [Add machine CC100> Host](#) (s. a. chapter 6.5.4)
    - i. [With CC100 – Host: COM Server configuration](#) (s. a. chapter 6.5.7)
    - ii. [With CC100 – Host: config. COM redirect](#) (s. a. chapter 6.5.8)
  - g. [Add machine CC100> PC-Host](#) (s. a. chapter 6.5.5)
    - i. [With CC100 – PC-Host: COM Server configuration](#) (s. a. chapter 6.5.7)
    - ii. [CC100 – PC-Host: config. COM redirect](#) (s. a. chapter 6.5.8)
5. [Save configuration](#) (s. a. chapter 6.6)
6. [Perform update](#) (s. a. chapter 6.7)

### 3. Add a Gateway to an existing system

Note: If you follow the hyperlink to the explanation you can jump back to the guide with the key combination Alt + left (arrow key).

- 1) [Installation Gateway Server](#) (s. a. chapter 6.1.2)
- 2) [Scan Gateway](#) (s. a. chapter 6.2)
- 3) Optional (according machine type)
  - a) [Installation W&T Redirect](#) (with CC100 Host & PC-Host (s. a chapter 6.36.4))
  - b) [Installation WUtility](#) (with CC100 Host & PC-Host or SLIP (s. a chapter 6.4)
  - c) [Add machine CC300](#) (s. a. chapter 6.5.1)
  - d) [Add machine CC200](#) (s. a. chapter 6.5.2)
  - e) [Add machine CC100> TCP/IP](#) (s. a. chapter 6.5.3)
    - i) [With CC100 – SLIP: COM Server configuration](#) (s. a. chapter 6.5.6)
  - f) [Add machine CC100> Host](#) (s. a. chapter 6.5.4)
    - i) [With CC100 – Host: COM Server configuration](#) (s. a. chapter 6.5.7)
    - ii) [With CC100 – Host: config. COM redirect](#) (s. a. chapter 6.5.8)
  - g) [Add machine CC100> PC-Host](#) (s. a. chapter 6.5.5)
    - i) [With CC100 – PC-Host: COM Server configuration](#) (s. a. chapter 6.5.7)
    - ii) [CC100 – PC-Host: config. COM redirect](#) (s. a. chapter 6.5.8)
- 4) [Save configuration](#) (s. a. chapter 6.6)
- 5) [perform update](#) (s. a. chapter 6.7)

## 4. Update Euromap63

Note: If you follow the hyperlink to the explanation you can jump back to the guide with the key combination Alt + left (arrow key).

- 1) [Watchdog → Exit and close all XFI's](#) (s. a. chapter 6.8.2)
- 2) [Close Gateway Controller](#) (s. a. chapter 6.8.1)
- 3) [Install E63 Interface](#) (s. a. chapter 6.1)
- 4) [Save configuration](#) (s. a. chapter 6.6)
- 5) [perform update](#) (s. a. chapter 6.7)



## 5. IPC installation

Note: If you follow the hyperlink to the explanation you can jump back to the guide with the key combination Alt + left (arrow key).

- 1) [IPC wiring](#)
- 2) [Configure IP-address](#)
- 3) [Check IPC name](#)
- 4) [Scan Gateway](#)
- 5) Optional (according machine type)
  - a) [Installation W&T Redirect](#) (with CC100 Host & PC-Host (s. a chapter 6.36.4))
  - b) [Installation WUtility](#) (with CC100 Host & PC-Host or SLIP (s. a chapter 6.4))
  - c) [Add machine CC300](#) (s. a. chapter 6.5.1)
  - d) [Add machine CC200](#) (s. a. chapter 6.5.2)
  - e) [Add machine CC100> TCP/IP](#) (s. a. chapter 6.5.3)
    - i) [With CC100 – SLIP: COM Server configuration](#) (s. a. chapter 6.5.6)
  - f) [Add machine CC100> Host](#) (s. a. chapter 6.5.4)
    - i) [With CC100 – Host: COM Server configuration](#) (s. a. chapter 6.5.7)
    - ii) [With CC100 – Host: config. COM redirect](#) (s. a. chapter 6.5.8)
  - g) [Add machine CC100> PC-Host](#) (s. a. chapter 6.5.5)
    - i) [With CC100 – PC-Host: COM Server configuration](#) (s. a. chapter 6.5.7)
    - ii) [CC100 – PC-Host: config. COM redirect](#) (s. a. chapter 6.5.8)
- 6) [Save configuration](#) (s. a. chapter 6.6)
- 7) [Perform update](#) (s. a. chapter 6.7)

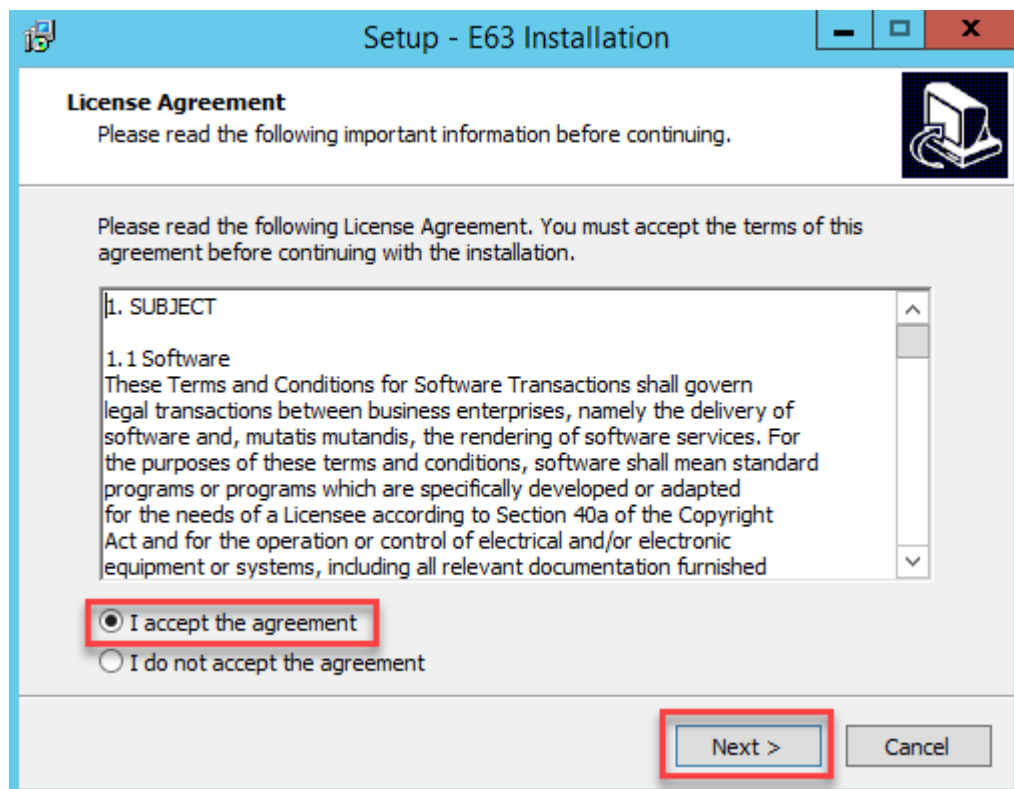
## 6. Detailed information

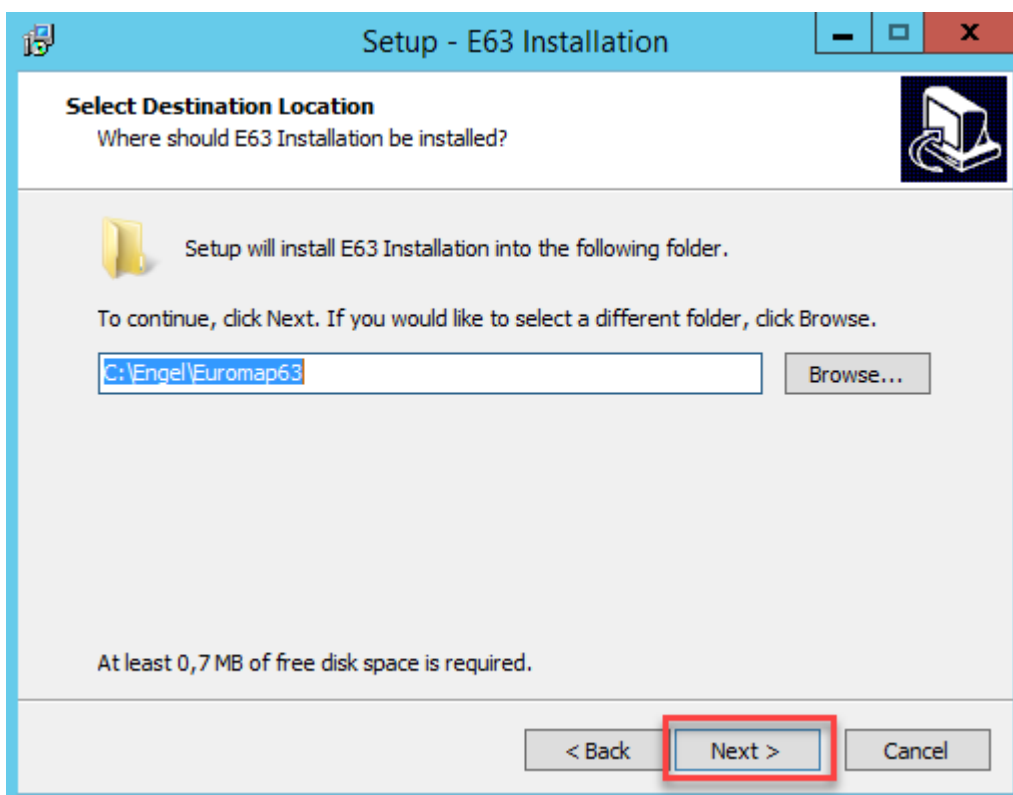
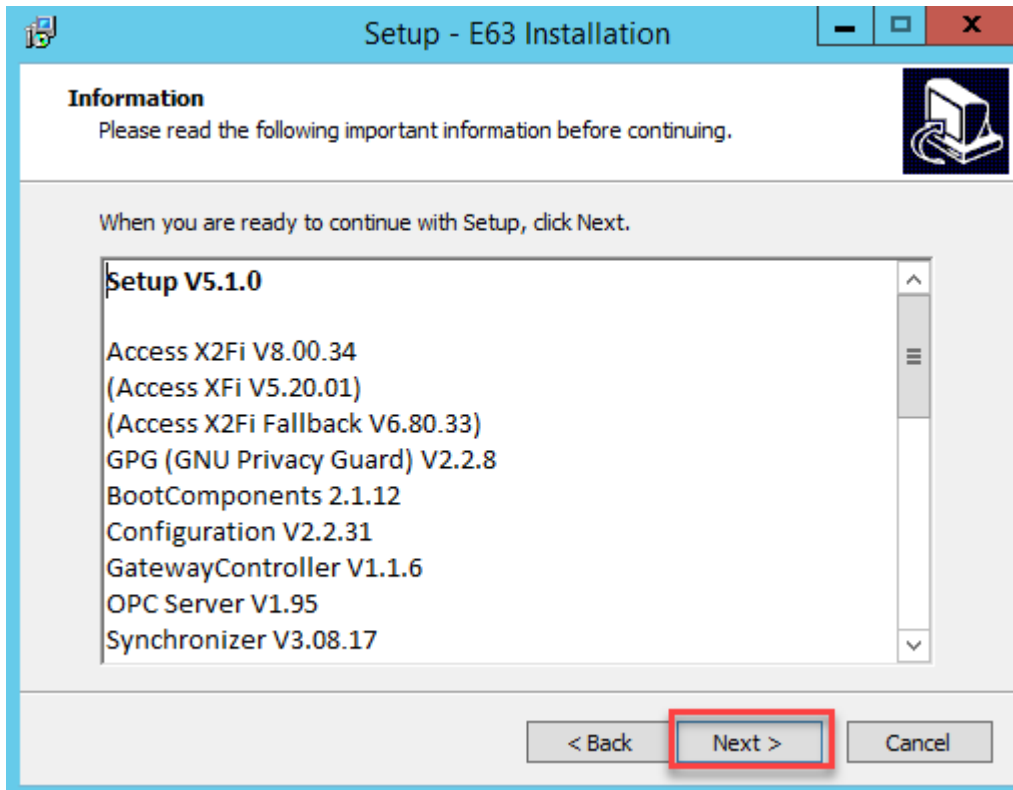
**To get the installation password and to arrange an installation date please contact [service.e-factory@engel.at](mailto:service.e-factory@engel.at) referring to your order number.**

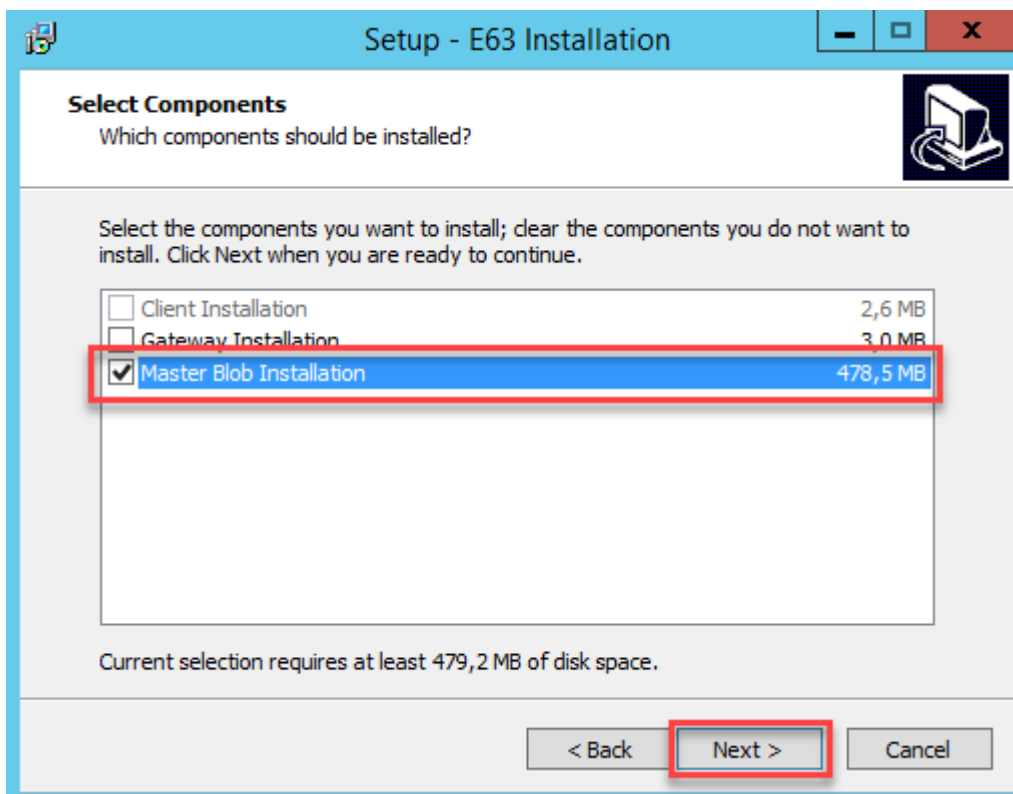
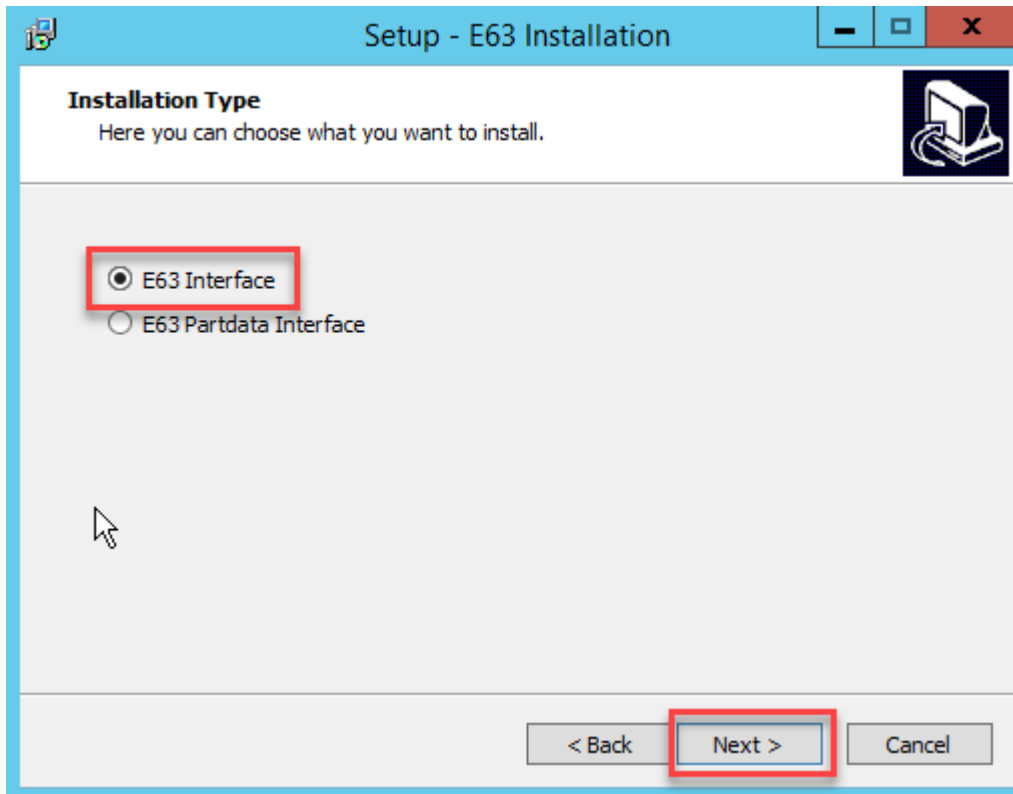
This guide is a single server installation. Therefore the IP addresses and server names are identical in this case.

### 6.1. Install E63 Interface

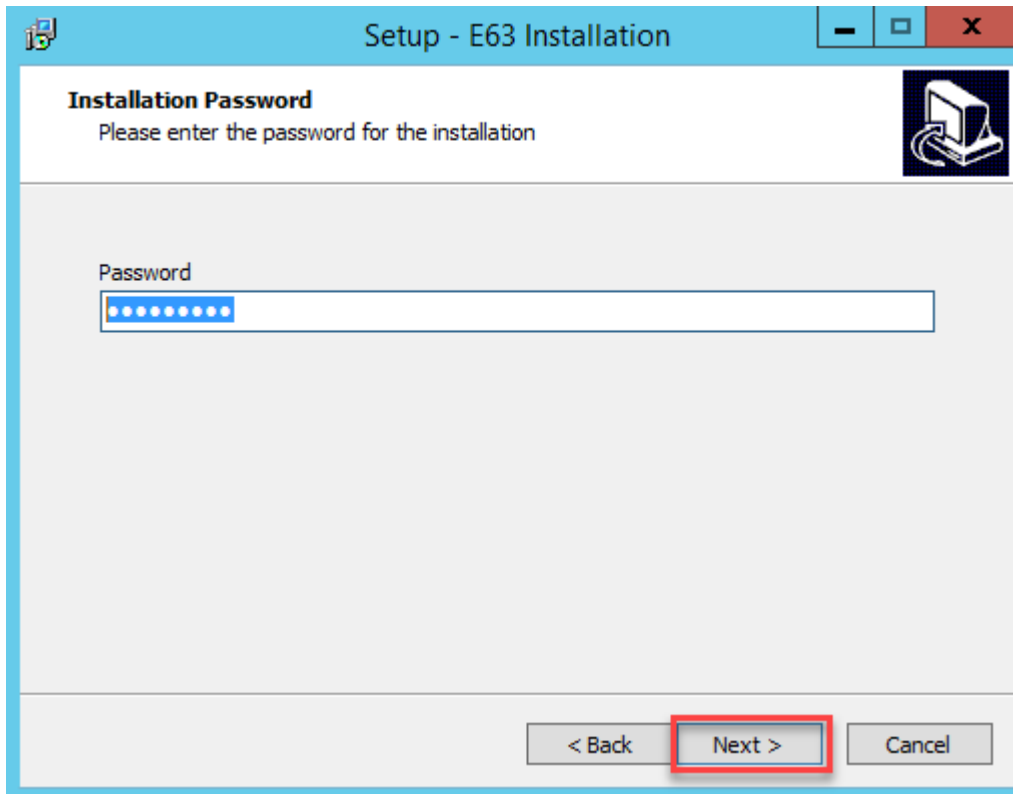
#### 6.1.1. Master Blob Installation



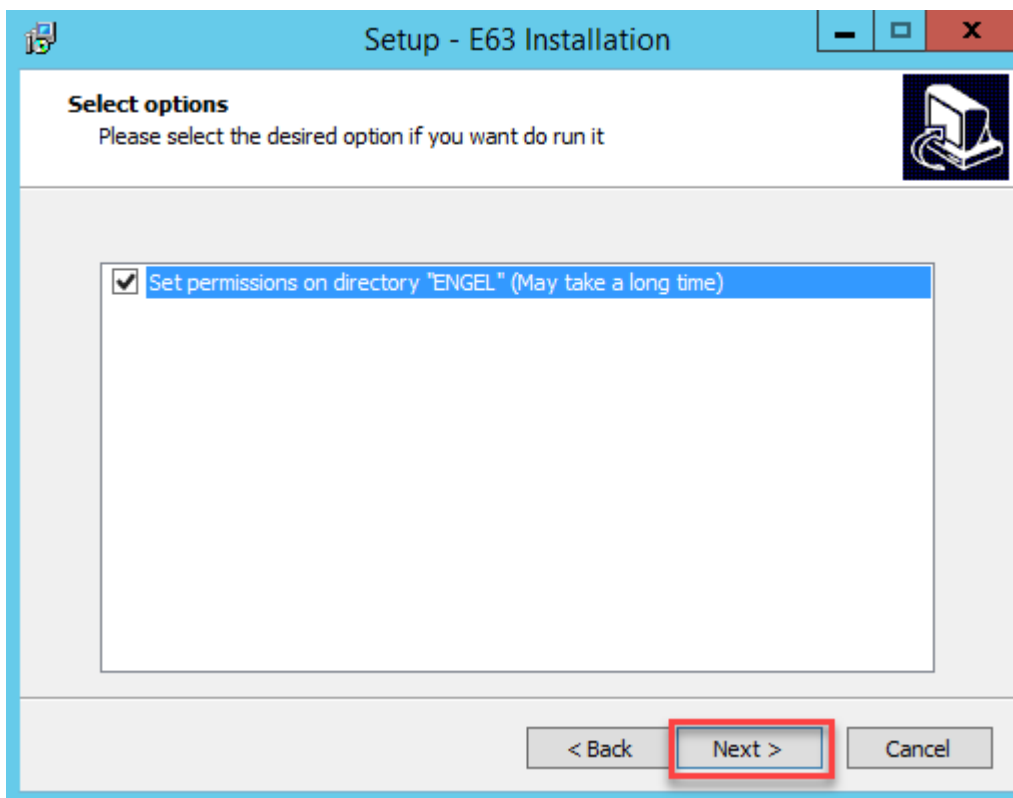


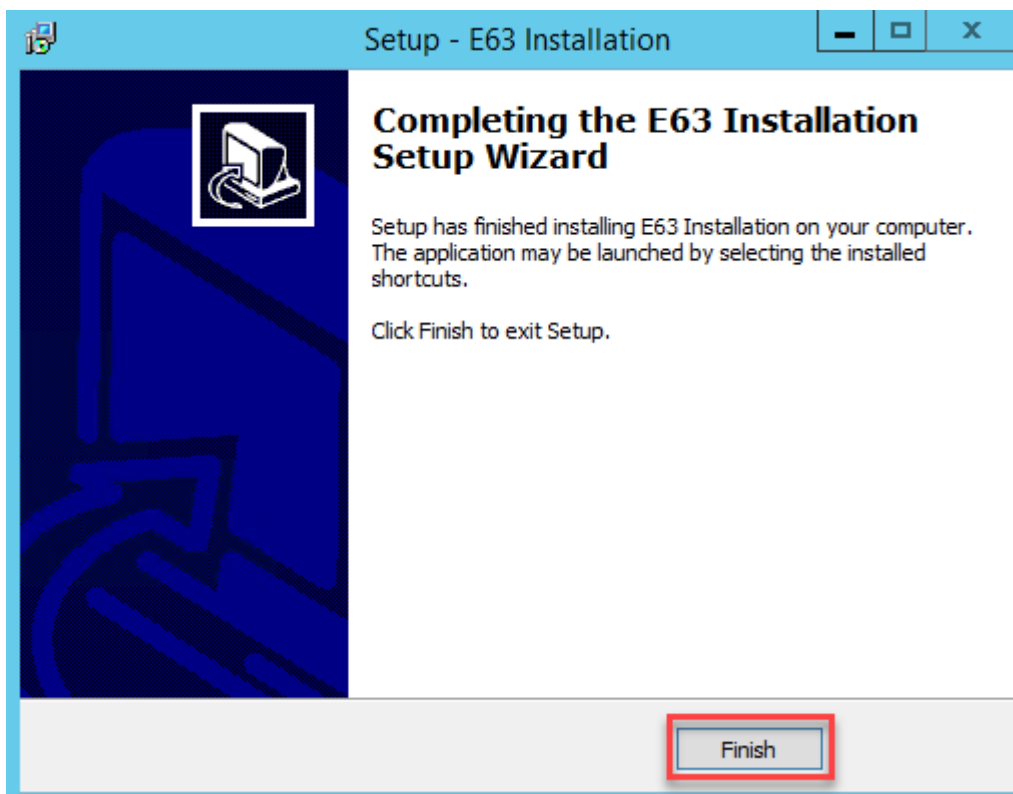
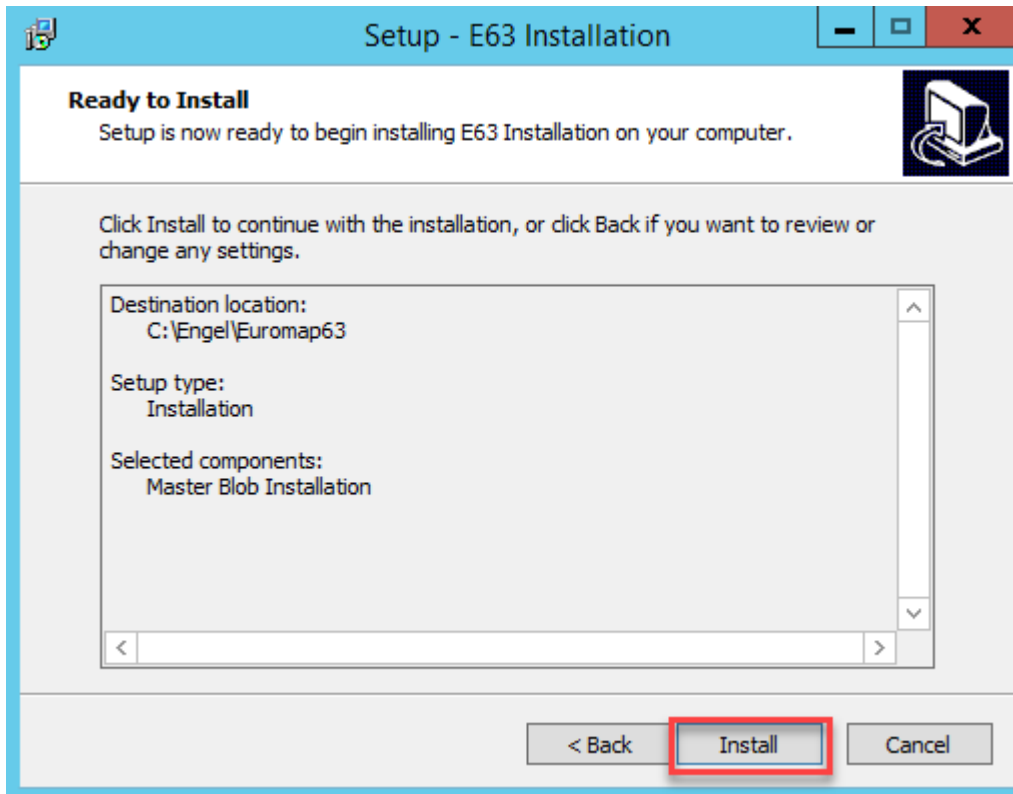


If you want to procedure with the Gateway Installation as well leave both boxes checked.

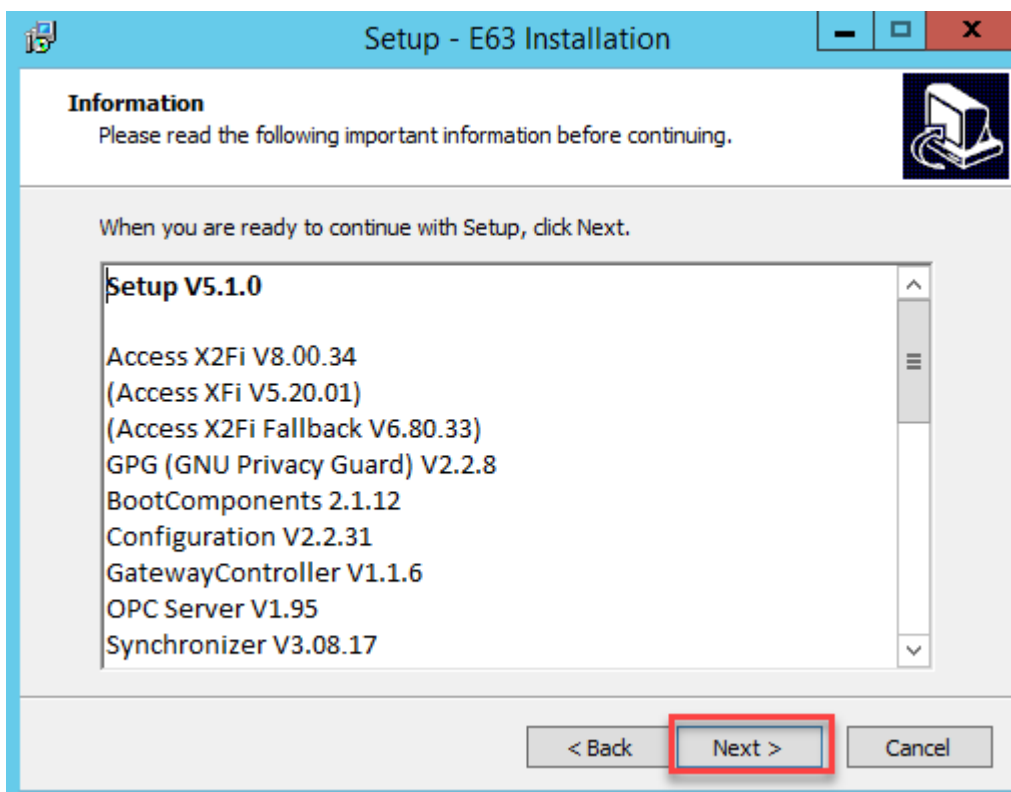
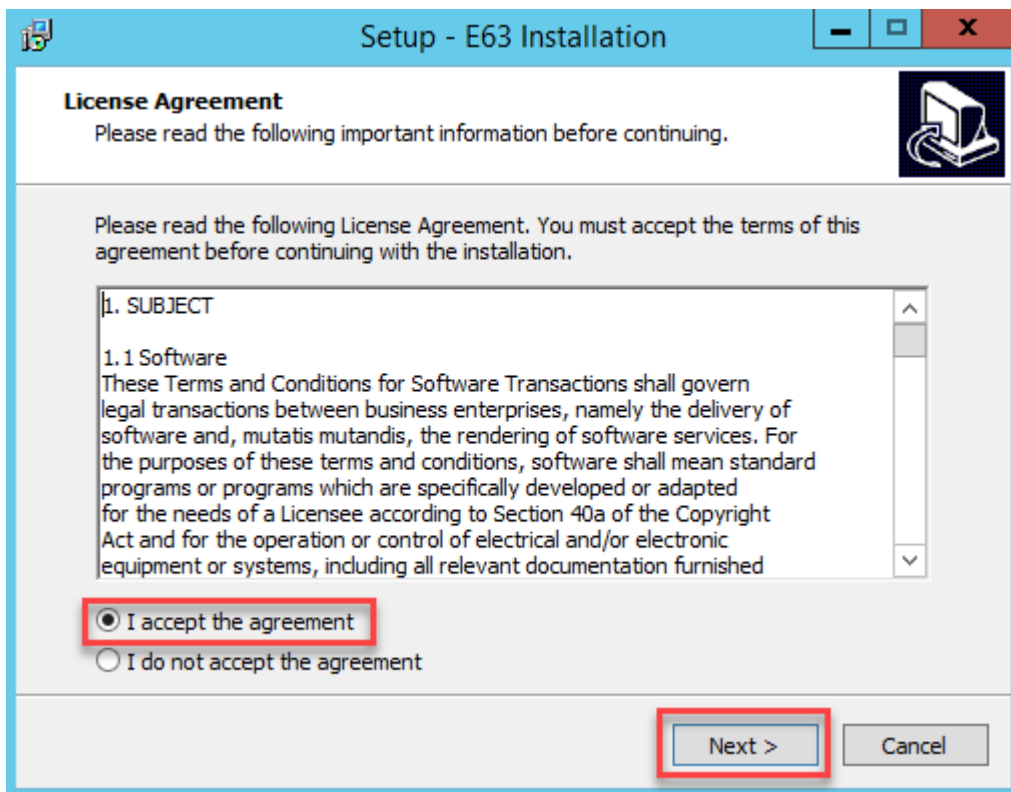


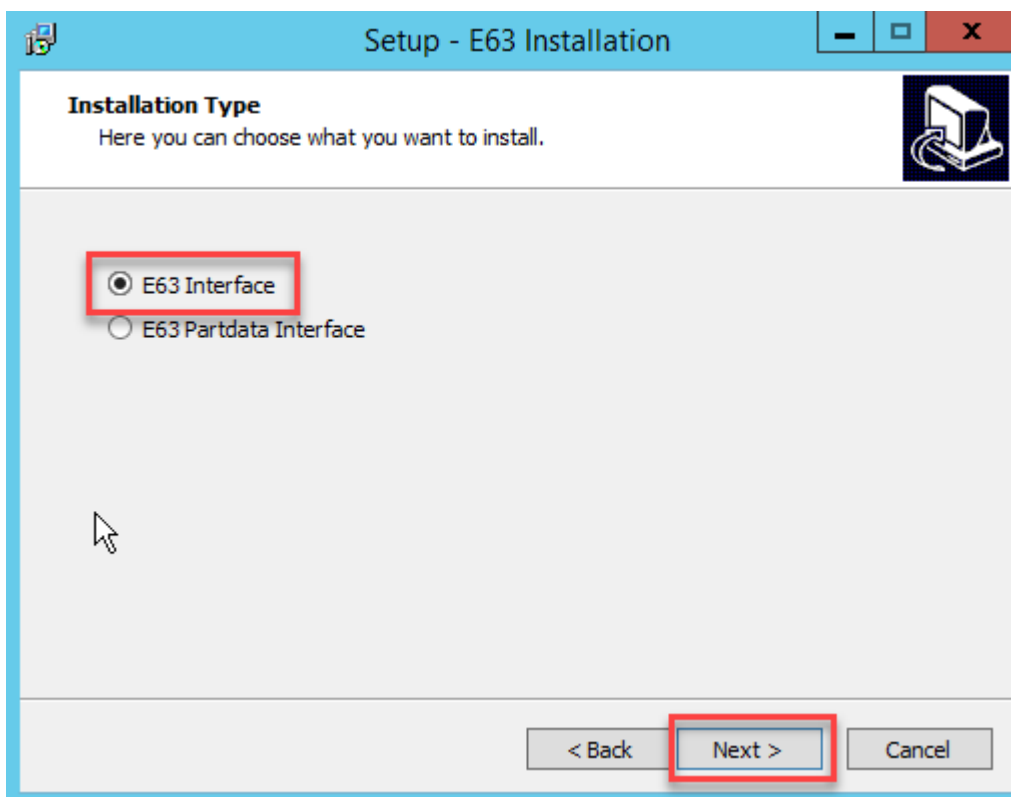
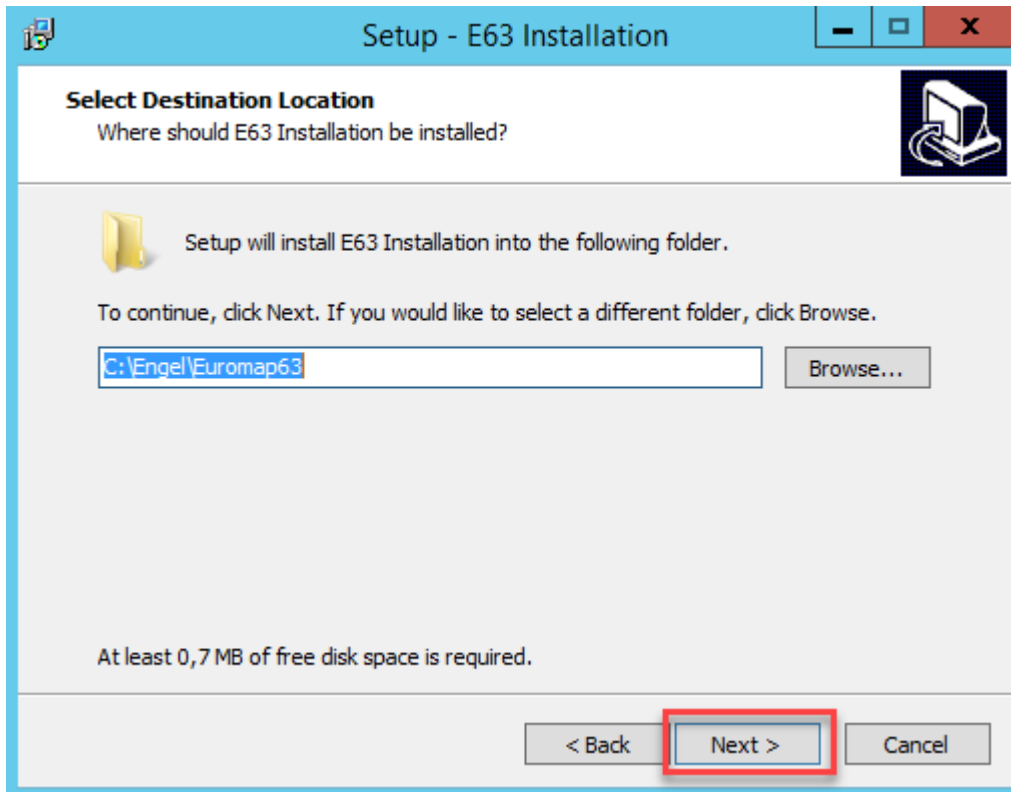
You get your password out of your password-file.  
The Next button will perform no action if the password is wrong.



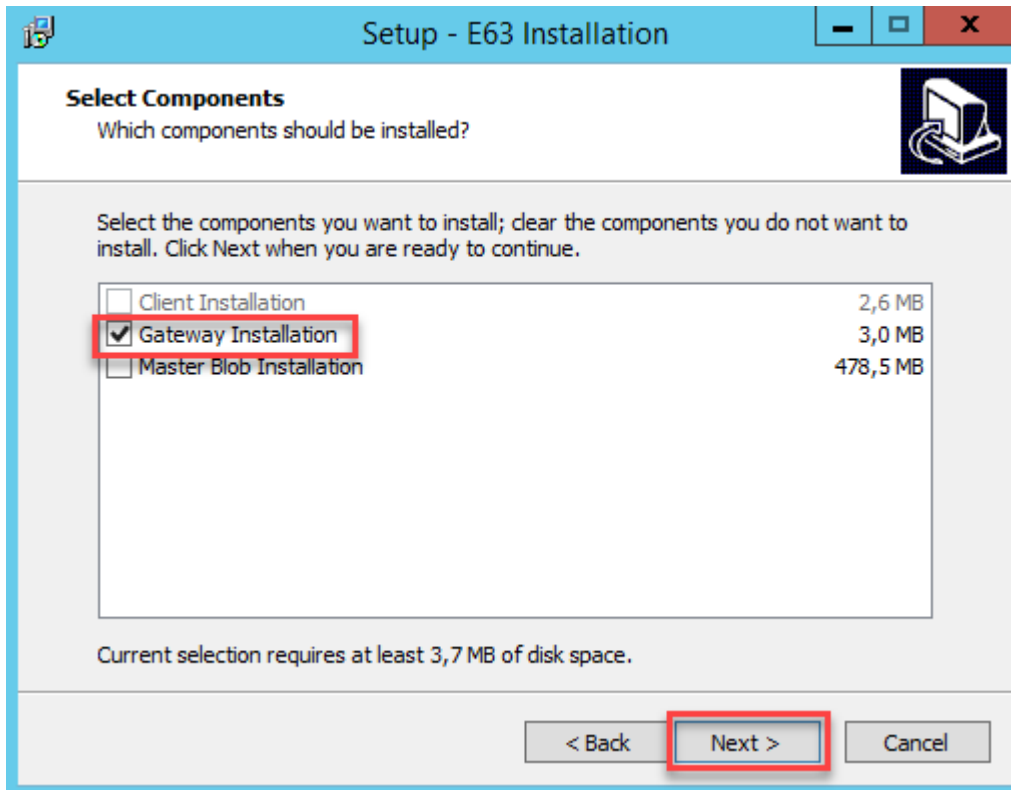


### 6.1.2. Gateway Installation

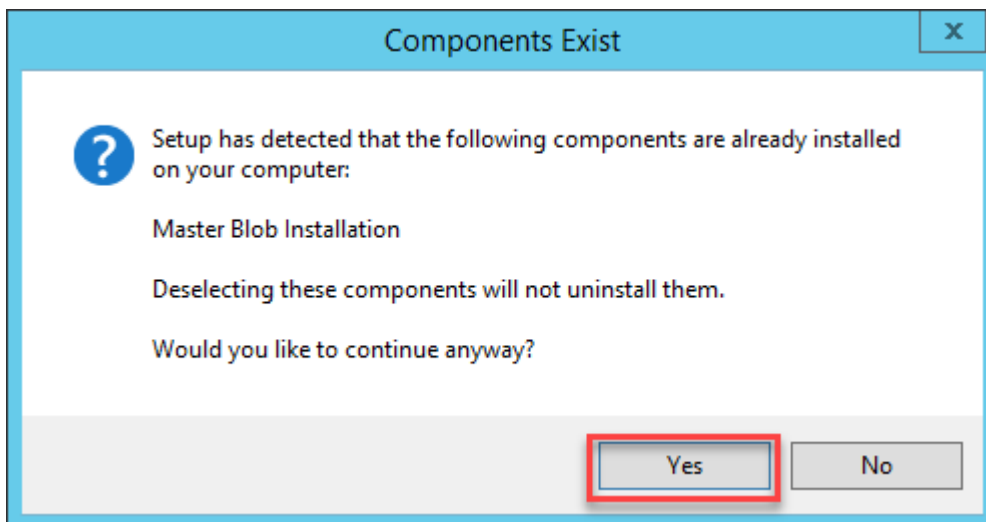




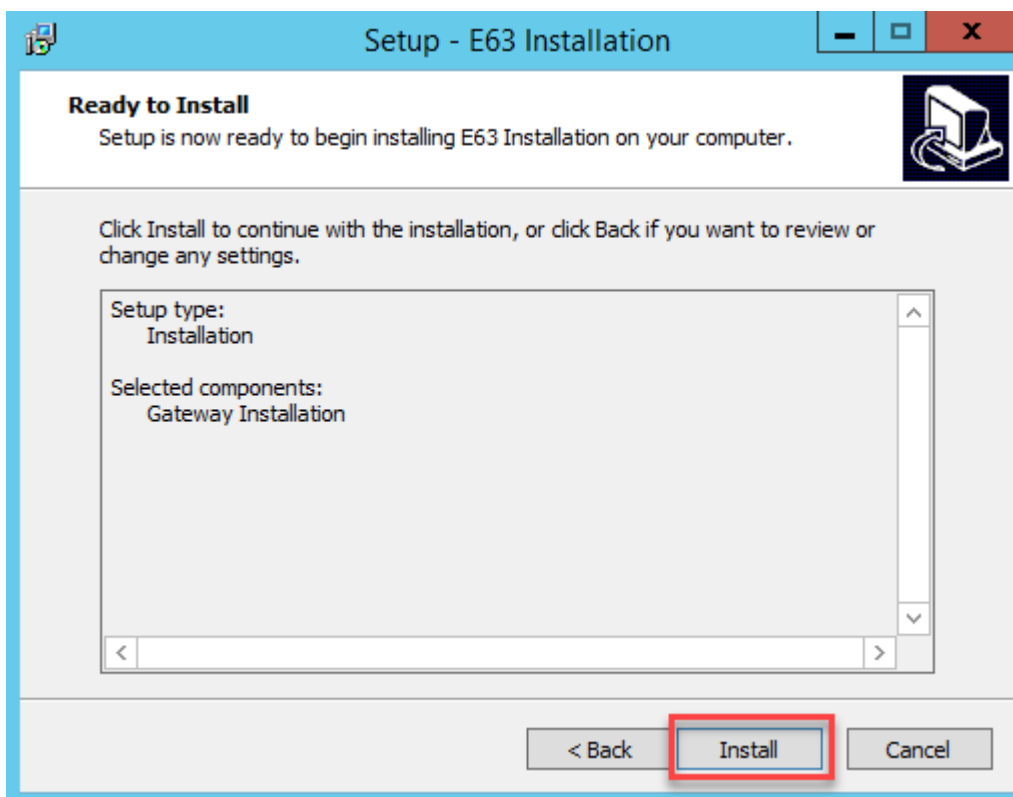
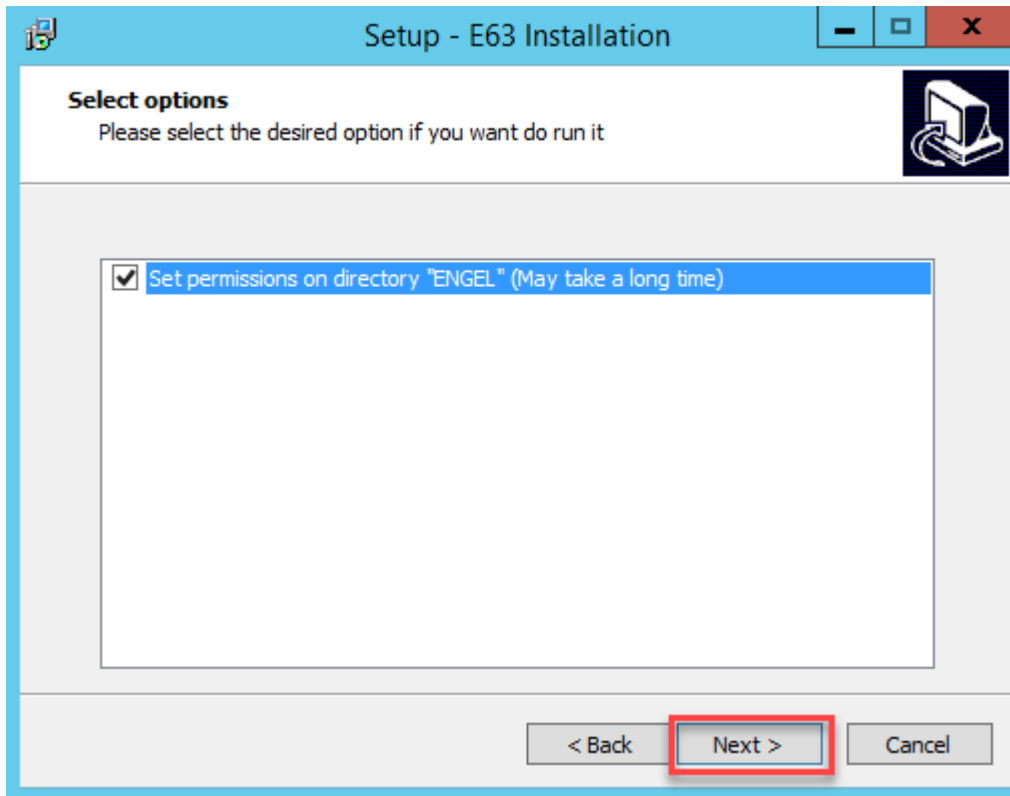


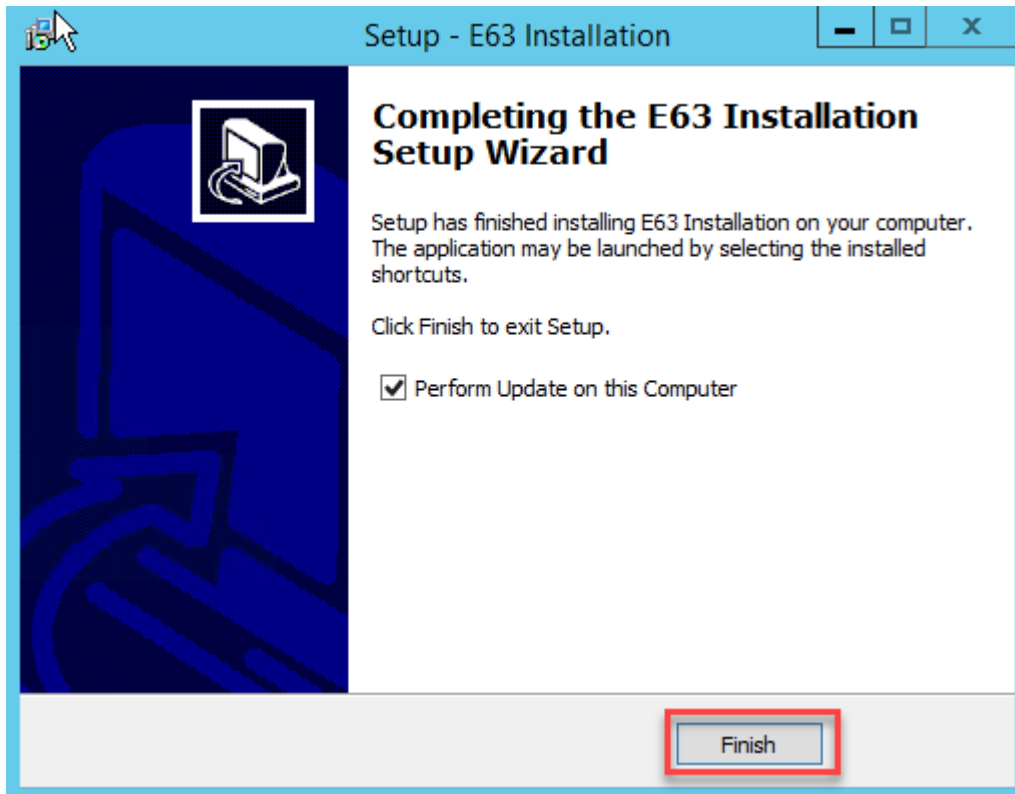


If you want to proceed with the Gateway Installation as well leave both boxes checked.



You only get this message if you continue with the Gateway and Master Blob Installation separately



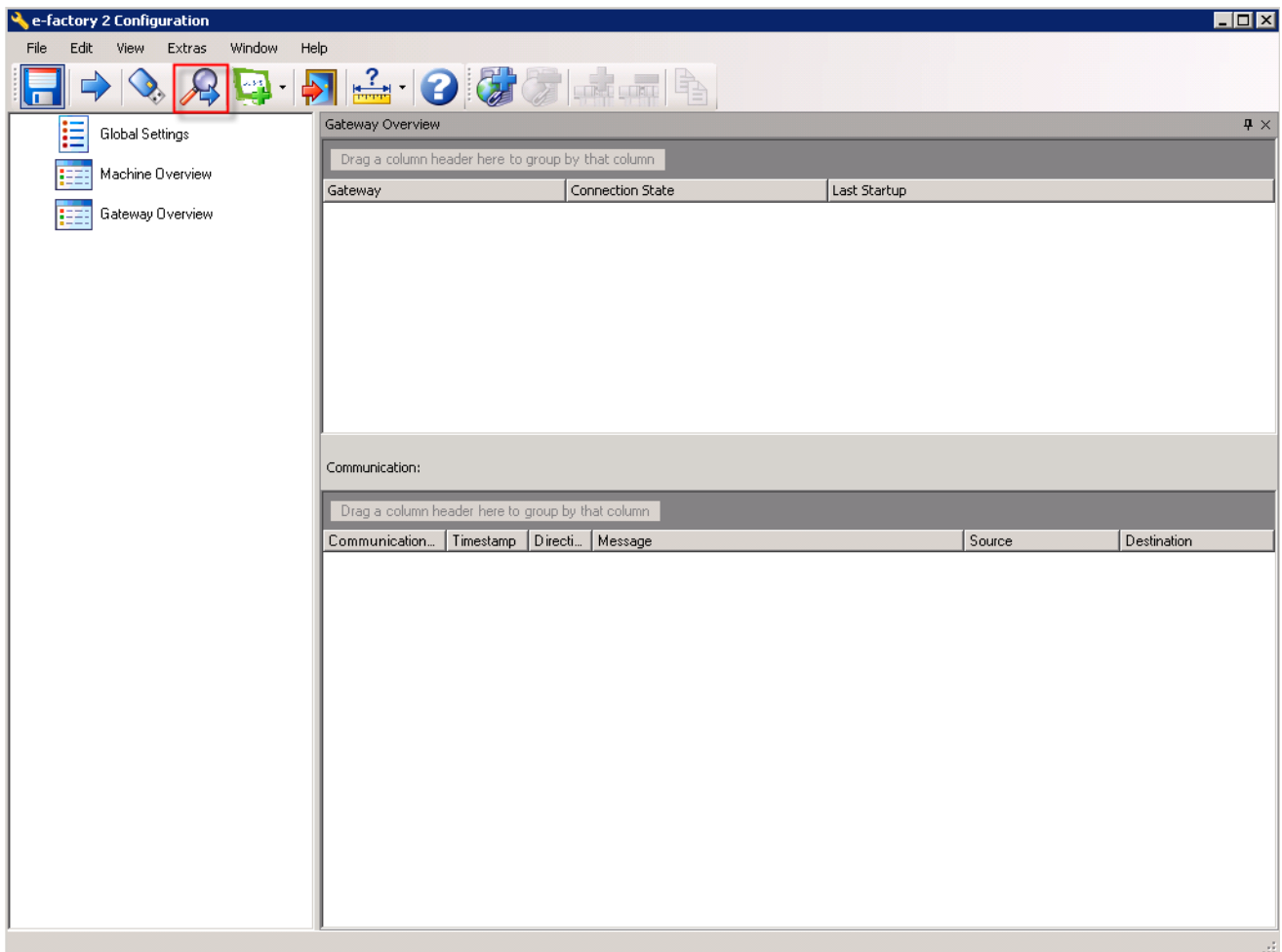


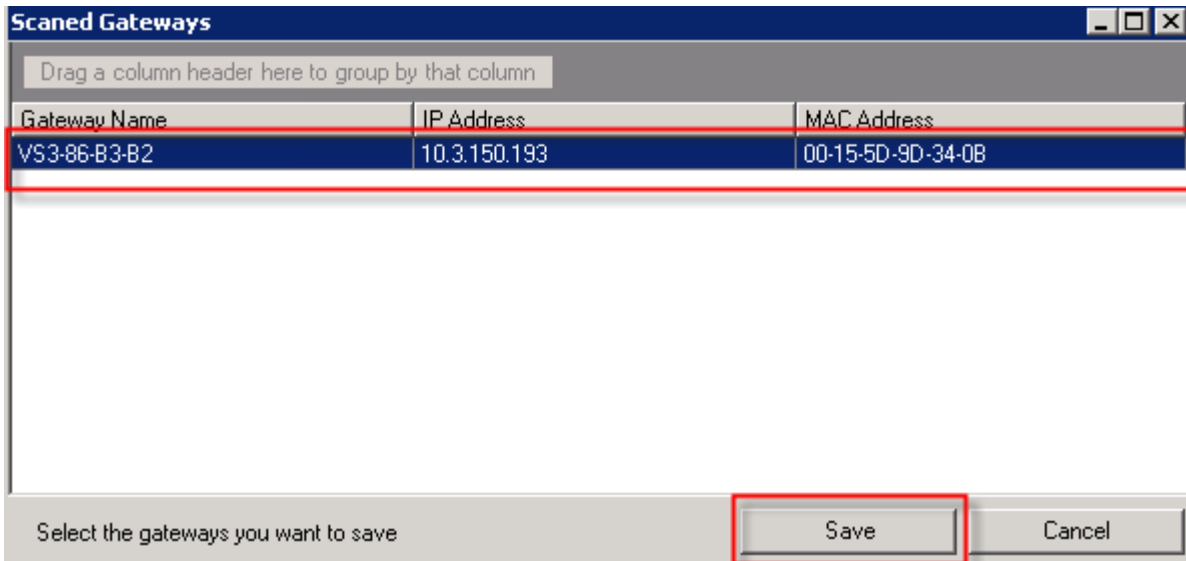
## 6.2. Add Gateway

### 6.2.1. Add Gateway – Automatic

GatewayController.exe must run.

Additionally the server has to be in any network (also in case of Single-Server installation). Otherwise there will be problems when performing the Gateway Scan.



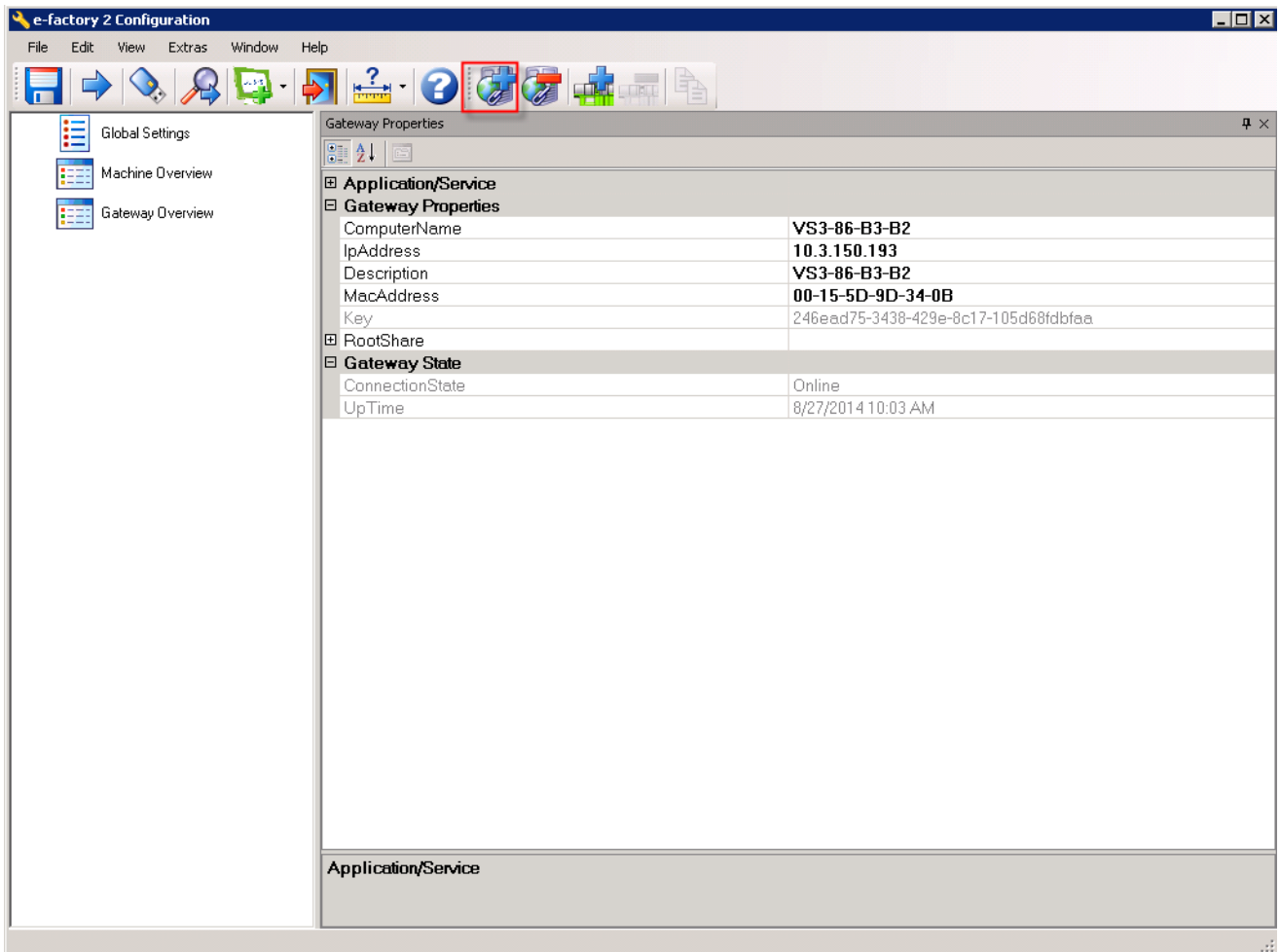


Select the gateway you want to configure and save.

### 6.2.2. Add Gateway – Manual

GatewayController.exe has to run.

Additionally the server has to be in any network (also in case of Single-Server installation). Otherwise there will be problems when performing the Gateway Scan.



**Add Gateway**

Gateway Settings

Computer Name: V53-83-B3-B2

Description: V53-83-B3-B2

Ip Address: 10.3.150.193

Cancel < Back Next > **Finish**

Write Computer name and IP Address of the Gateway server (or IPC) in the dedicated fields.

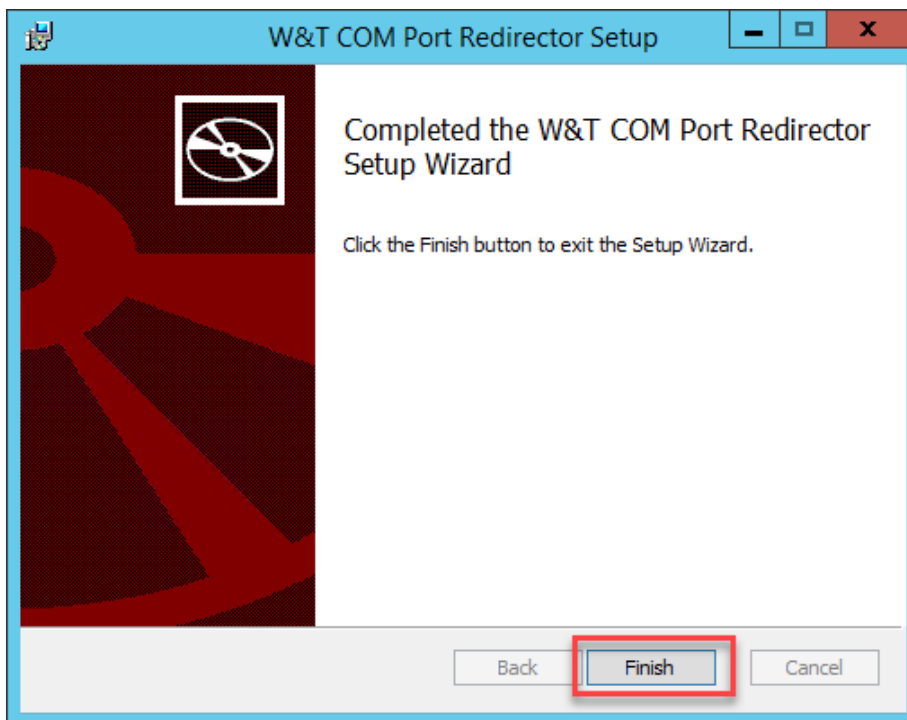
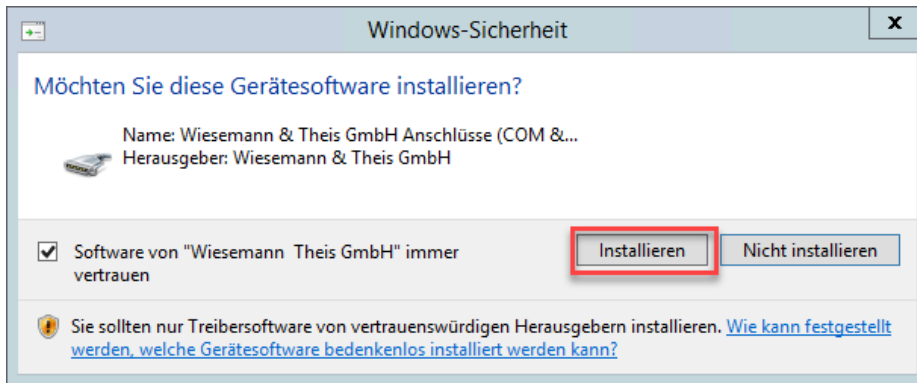
### 6.3. Installation W&T Redirect

To get the setup go to the W&T Download page and download the latest version of the wutility setup. (<https://www.wut.de/e-00111-11-inus-000.php>)

The installation guide is based on the 4.31 Version







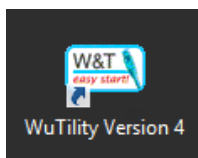
## 6.4. Installation WUTility

To get the setup go to the W&T Download page and download the latest version of the wutility setup. (<https://www.wut.de/e-5www-17-inus-000.php>)

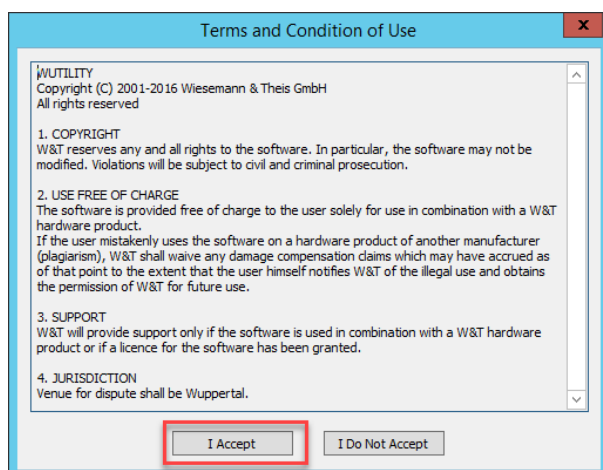
The installation guide is based on the 4.40 Version



Start the WuTility Version 4

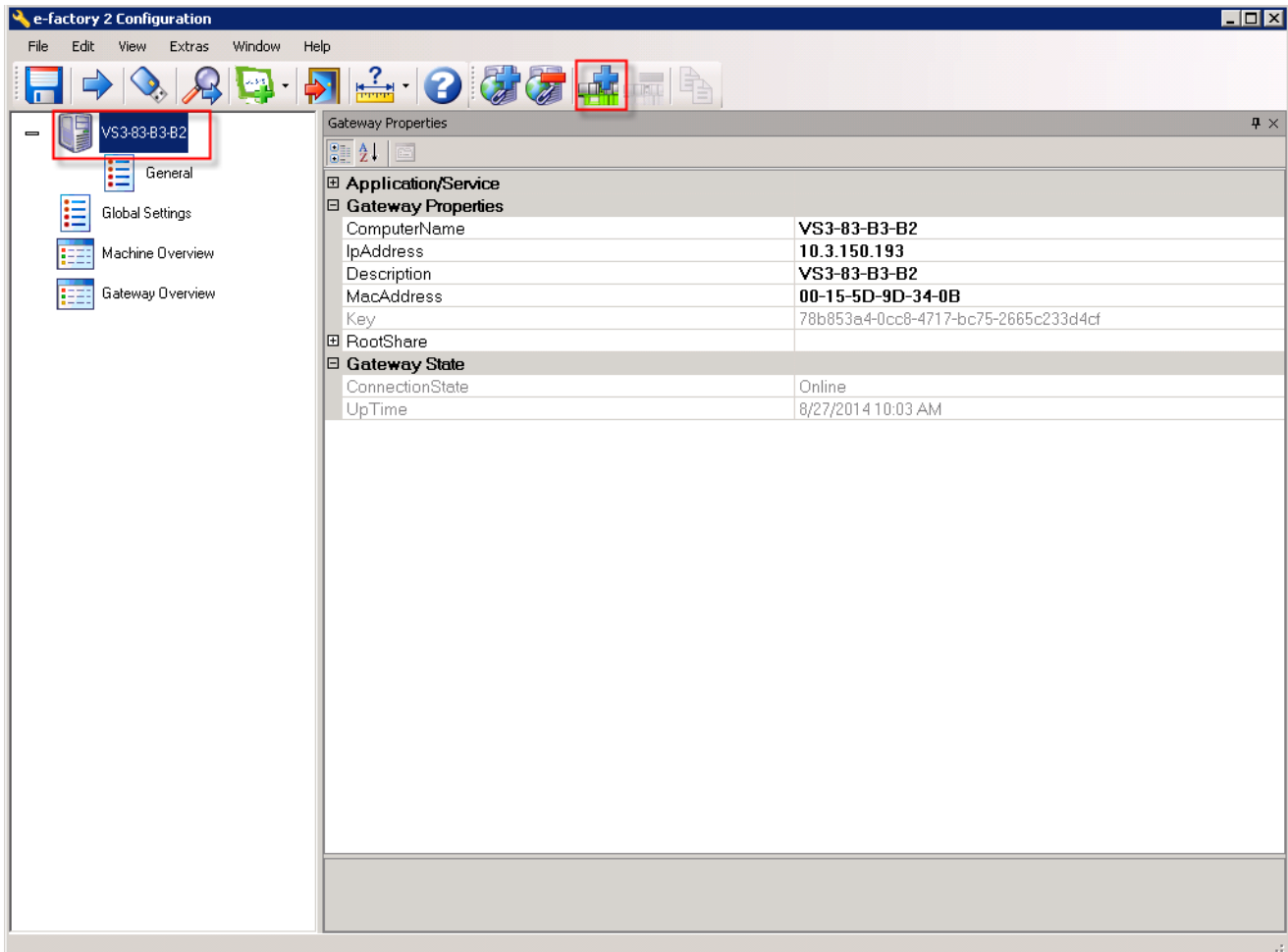


After starting the program:



## 6.5. Add Machine

### 6.5.1. CC300



### Add Machine (ID=212582)

**Add Machine**

Please select the correct machine type and enter a unique Id and a name for the machine. The protocol indicates whether the machine is connected via HOST, PC-HOST or TCP/IP interface. To import machine data press the "Import machine disc" button and select the location to import the data from. To write an INFO file press the "Write INFO file" button and select the path the file should be written to.



**Import Data**

|          |           |
|----------|-----------|
| Type     | CC300     |
| Id       | 212582    |
| Name     | Maschine1 |
| Protocol | TcpIp     |

☒ SSH active

Cancel < Back Next > Finish

ID and Name are examples, activate SSH if needed

## Add Machine (ID=212582)

**Add Machine**

Please insert the IP Address of the machine and if necessary the COM Port and the Baudrate.



**Settings**

|              |                                                                  |                                              |
|--------------|------------------------------------------------------------------|----------------------------------------------|
| IP Address   | <input style="width: 90%;" type="text" value="192.168.156.138"/> |                                              |
| SSH Port     | <input style="width: 90%;" type="text" value="10050"/>           |                                              |
| SSH Password | <input style="width: 90%;" type="password" value="*****"/>       | <input checked="" type="checkbox"/> Hide PWD |

fill in the IP Address (IP address is an example), if you leave SSH checked in the previous window the filled out SSH Port and the SSH Password field will appear. (like you can see in the screenshot above)

Add Machine (ID=212582)

### Add Machine

Please select gateway and station the machine is assigned to.



Assign

Gateway

VS-Martin

▼

Station

1

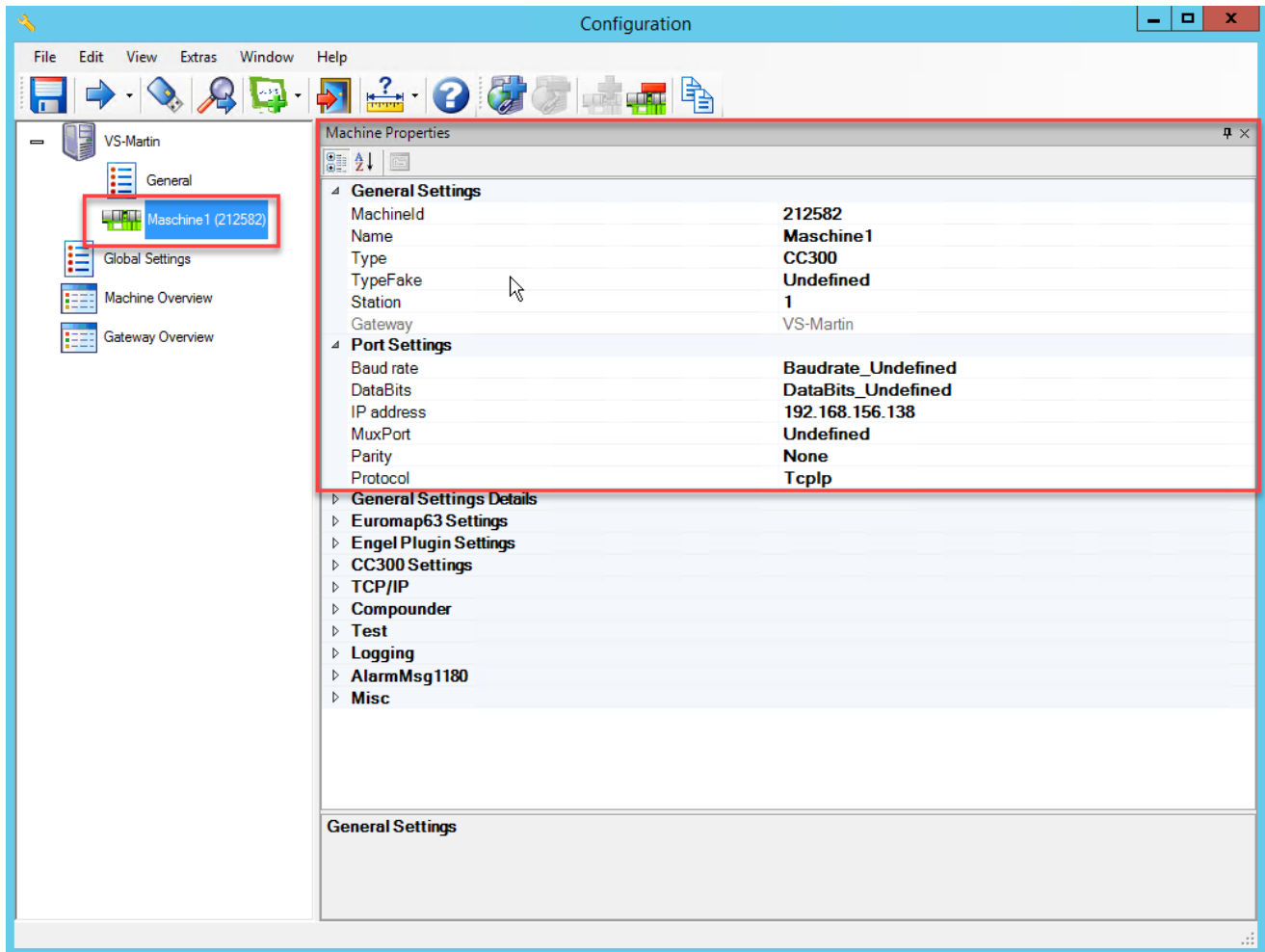
▼

Finish

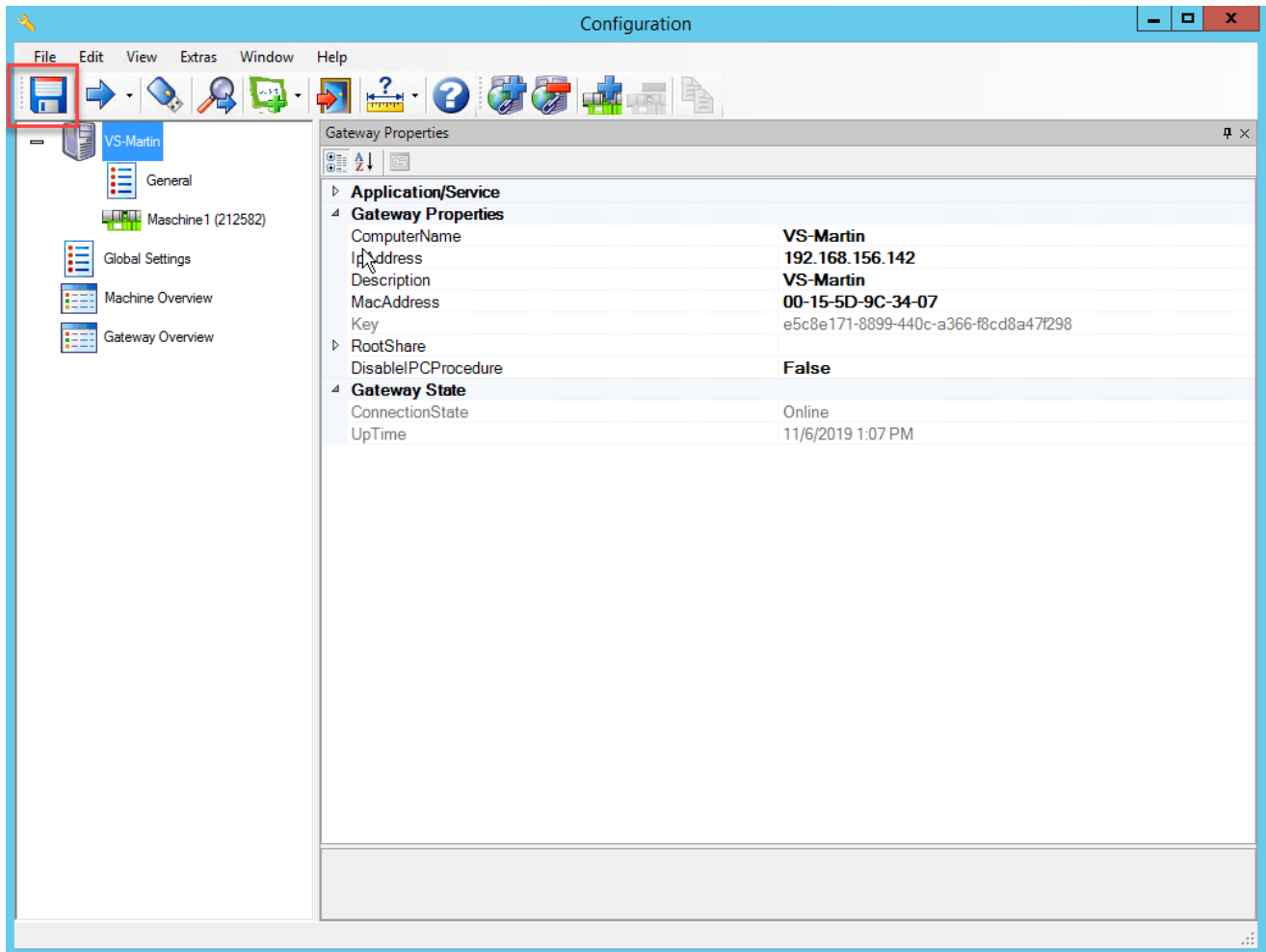
Select the Station where you want to add your Machine  
Station: instance of the File interface

Station 0 means deactivated.

If you have many different machine types, it's recommended to group them to different stations.



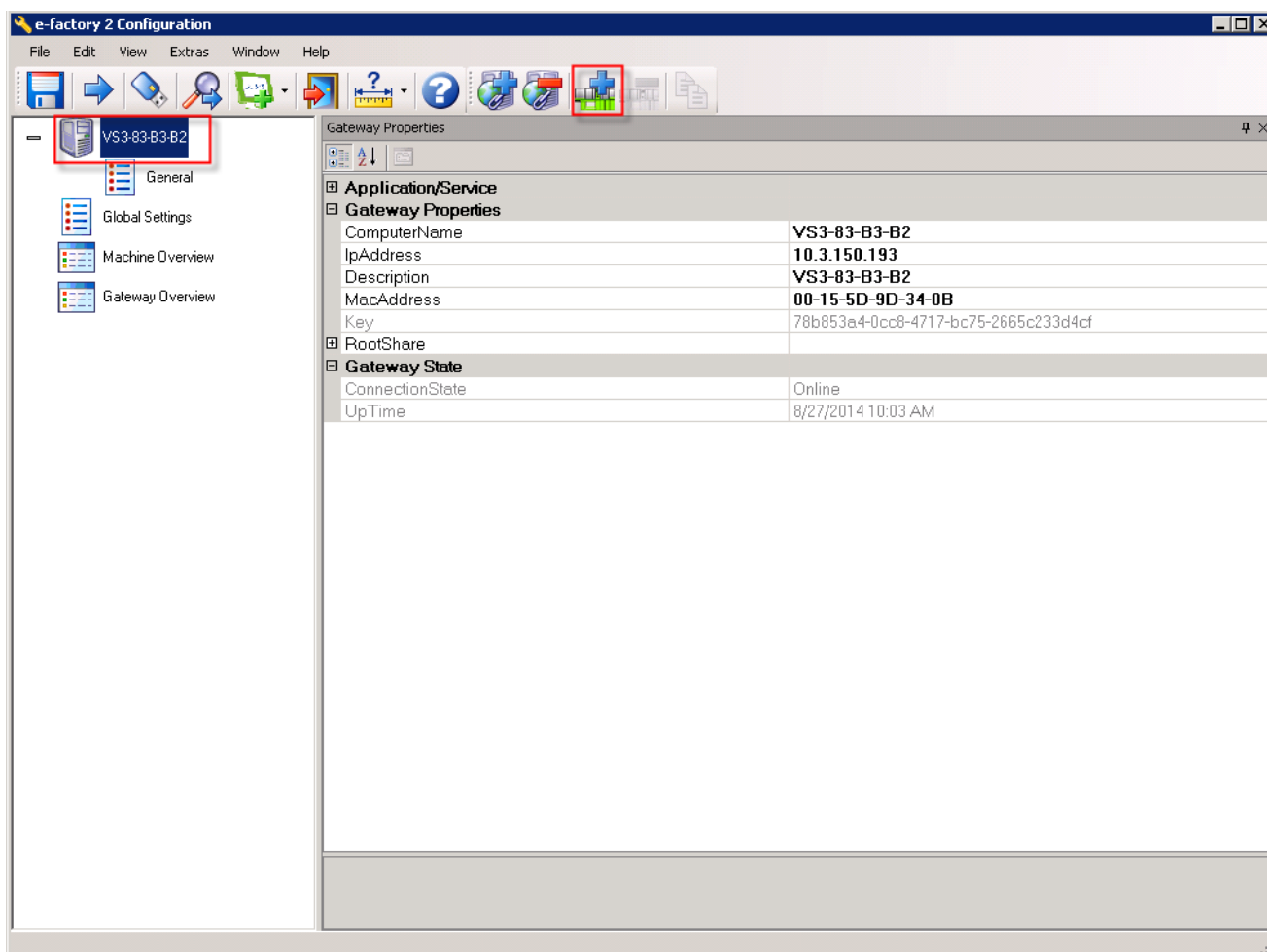
After completing the installation, a new machine should be added under the gateway that has been chosen.



The next step is to [Save configuration \(s. a. chapter 6.6\)](#) and [perform update \(s. a. chapter 6.7\)](#) to start the machine.



## 6.5.2. CC200



## Add Machine (ID=171514)

### Add Machine

Please select the correct machine type and enter a unique Id and a name for the machine. The protocol indicates whether the machine is connected via HOST, PC-HOST or TCP/IP interface. To import machine data press the "Import machine disc" button and select the location to import the data from. To write an INFO file press the "Write INFO file" button and select the path the file should be written to.



Import Data

Type

CC\_EC200

Id

171514

Name

Maschine1

Protocol

TcpIp

Cancel

< Back

Next >

Finish

ID and Name are examples

**Add Machine (ID=171514)**

**Add Machine**

Please insert the IP Adress of the machine and if necessary the COM Port and the Baudrate.



Settings

IP Address

IP Adress is an example

Add Machine (ID=171514)

### Add Machine

Please select gateway and station the machine is assigned to.



Assign

Gateway
V53-83-B3-B2

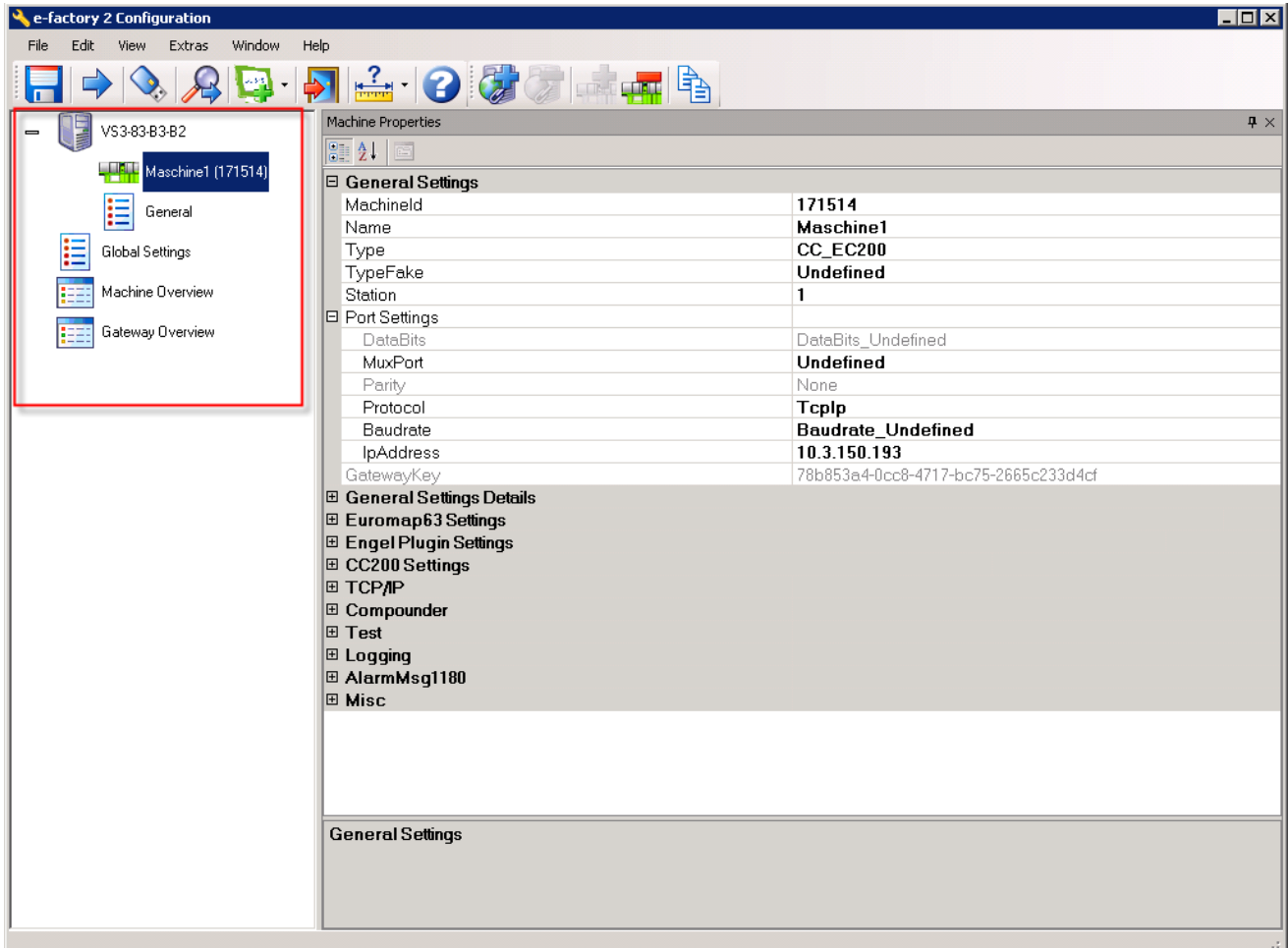
Station
1

Cancel
< Back
Next >
Finish

Select the Station where you want to add your Machine  
Station: instance of the Fileinterface

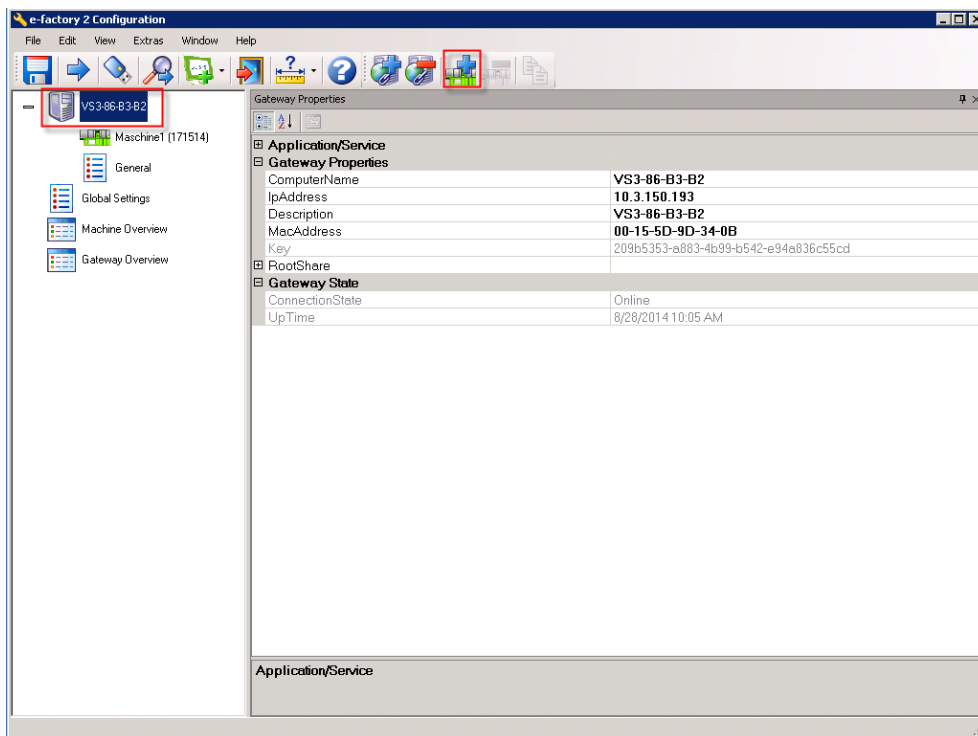
Station 0 means deactivated.

If you have many different machine types, it's recommended to group them to different stations.



The next step is to [Save configuration \(s. a. chapter 6.6\)](#) and [perform update \(s. a. chapter 6.7\)](#) to start the machine.

### 6.5.3. Add Machine C100 – TCP/IP



**Add Machine**

Please select the correct machine type and enter a unique Id and a name for the machine. The protocol indicates whether the machine is connected via HOST, PC-HOST or TCP/IP interface. To import machine data press the "Import machine disc" button and select the location to import the data from. To write an INFO file press the "Write INFO file" button and select the path the file should be written to.



**Import Data**

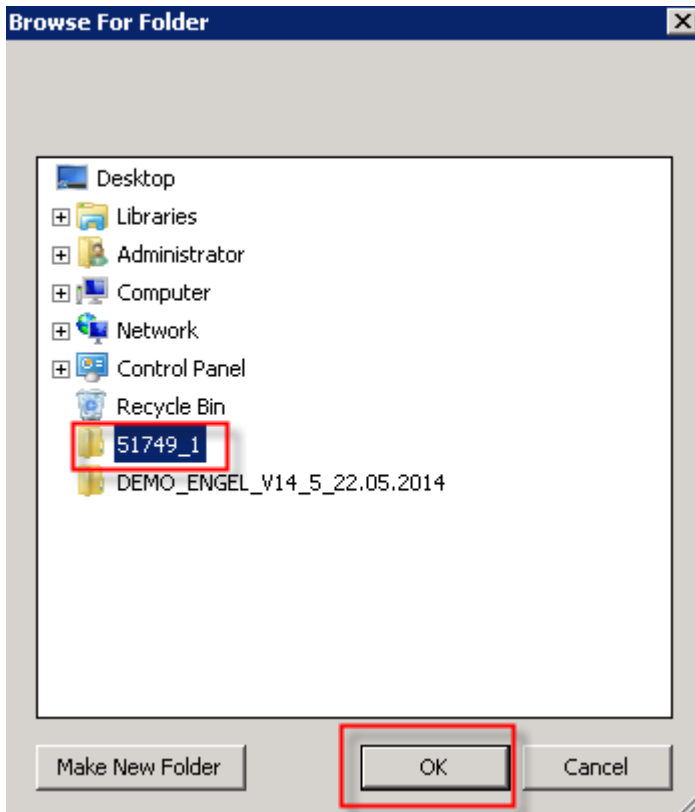
Type:

Id:

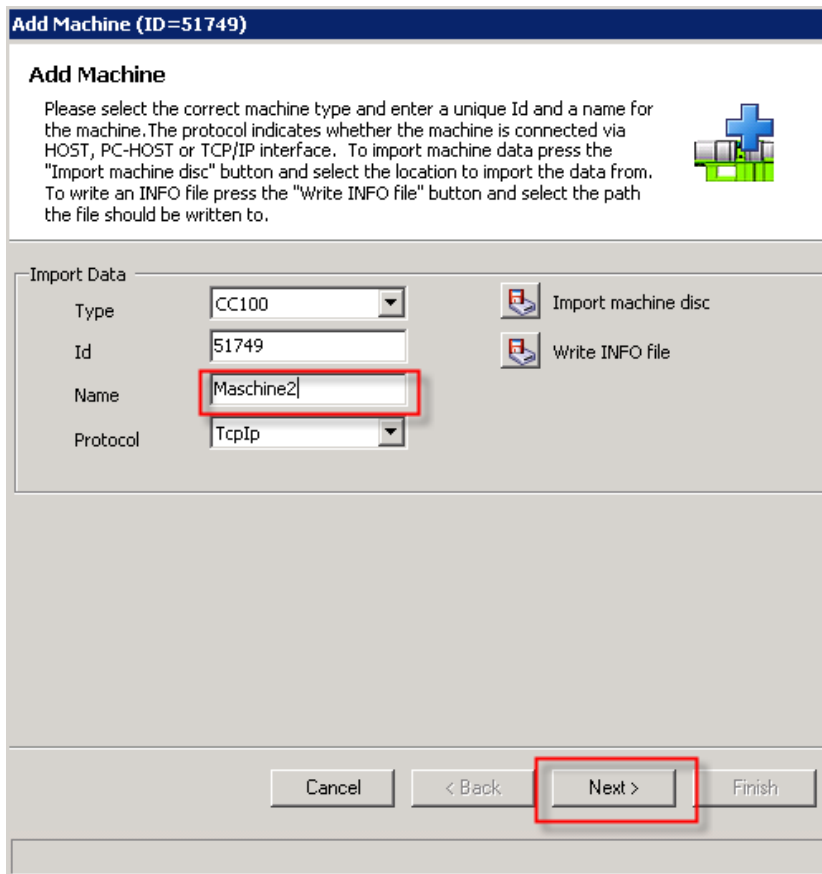
Name:

Protocol:

DO NOT fill out the "Id" field before importing the machine disc.



Select machine disc



Add Machine (ID=51749)

### Add Machine

Please insert the IP Adress of the machine and if necessary the COM Port and the Baudrate.



Settings

IP Address

Cancel
< Back
Next >
Finish

IP Address is an example



Add Machine (ID=51749)

### Add Machine

Please select gateway and station the machine is assigned to.



Assign

Gateway
V53-86-B3-B2

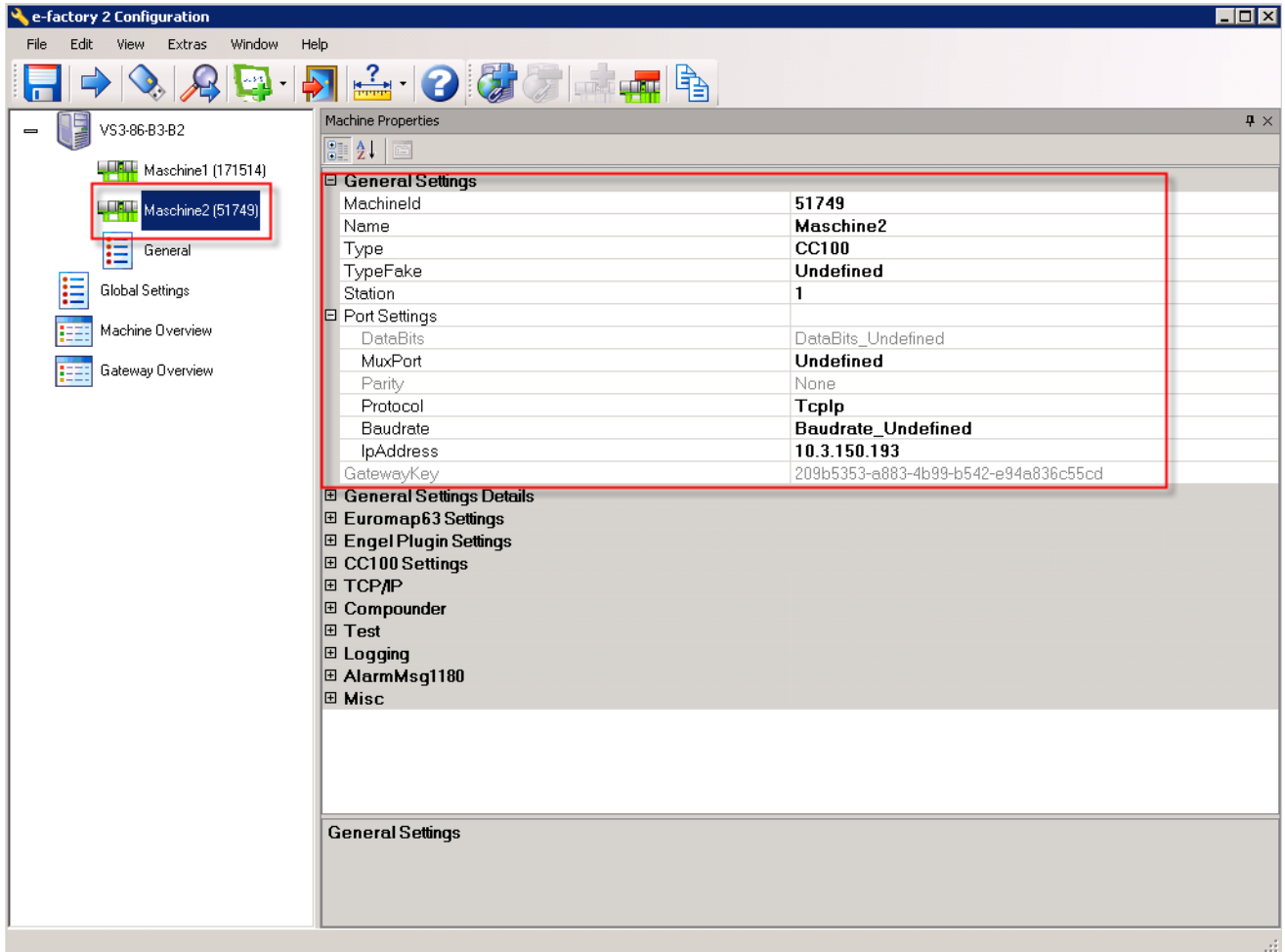
Station
1

Cancel
< Back
Next >
Finish

Select the Station where you want to add your Machine  
Station: instance of the Fileinterface

Station 0 means deactivated.

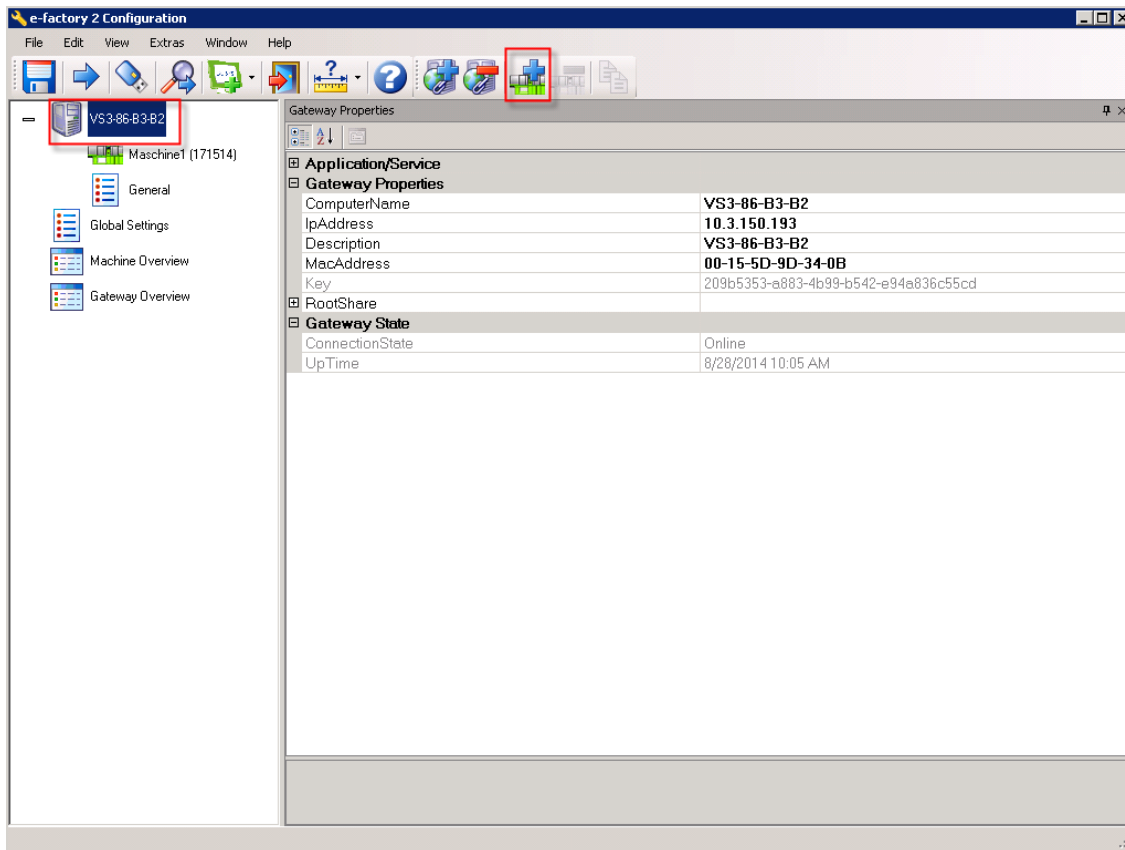
If you have many different machine types, it's recommended to group them to different stations.



The next step is to [Save configuration \(s. a. chapter 6.6\)](#) and [perform update \(s. a. chapter 6.7\)](#) to start the machine.

#### 6.5.4. Add machine C100 – Host

Before adding the C100 Host machine you need to complete the [Installation W&T Redirect \(s. a chapter 6.36.4\)](#) and the [Installation WUtility \(s. a chapter 6.4\)](#) and also complete the [COM-Redirect Configuration \(s. a. chapter 6.5.8\)](#)



**Add Machine**

**Add Machine**

Please select the correct machine type and enter a unique Id and a name for the machine. The protocol indicates whether the machine is connected via HOST, PC-HOST or TCP/IP interface. To import machine data press the "Import machine disc" button and select the location to import the data from. To write an INFO file press the "Write INFO file" button and select the path the file should be written to.



Import Data

|          |       |                                                                                                       |
|----------|-------|-------------------------------------------------------------------------------------------------------|
| Type     | CC100 |  Import machine disc |
| Id       |       |  Write INFO file     |
| Name     |       |                                                                                                       |
| Protocol | Host  |                                                                                                       |

Cancel
< Back
Next >
Finish

**Browse For Folder** X

-  Desktop
-  Libraries
-  Administrator
-  Computer
-  Network
-  Control Panel
-  Recycle Bin
-  51749\_1
-  DEMO\_ENGEL\_V14\_5\_22.05.2014

Make New Folder
OK
Cancel

Select machine disc

**Add Machine (ID=51749)**

**Add Machine**

Please select the correct machine type and enter a unique Id and a name for the machine. The protocol indicates whether the machine is connected via HOST, PC-HOST or TCP/IP interface. To import machine data press the "Import machine disc" button and select the location to import the data from. To write an INFO file press the "Write INFO file" button and select the path the file should be written to.



Import Data

|          |           |                                                                                                       |
|----------|-----------|-------------------------------------------------------------------------------------------------------|
| Type     | CC100     |  Import machine disc |
| Id       | 51749     |  Write INFO file     |
| Name     | Maschine2 |                                                                                                       |
| Protocol | Host      |                                                                                                       |

Cancel < Back **Next >** Finish

**Add Machine (ID=51749)**

**Add Machine**

Please insert the IP Address of the machine and if necessary the COM Port and the Baudrate.



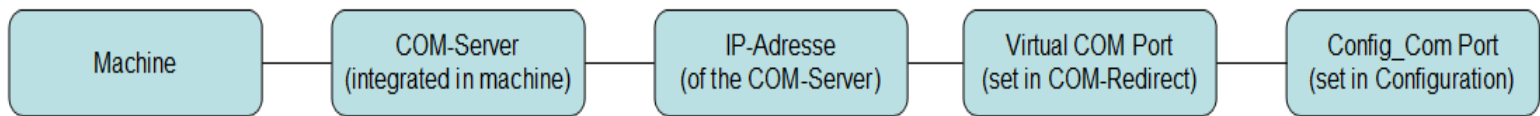
Settings

|            |               |
|------------|---------------|
| IP Address | 10.3.150.193  |
| COM Port   | COM3          |
| Baudrate   | Baudrate_9600 |

Cancel < Back **Next >** Finish

IP address and COM port are examples  
They must be configured at the COM server

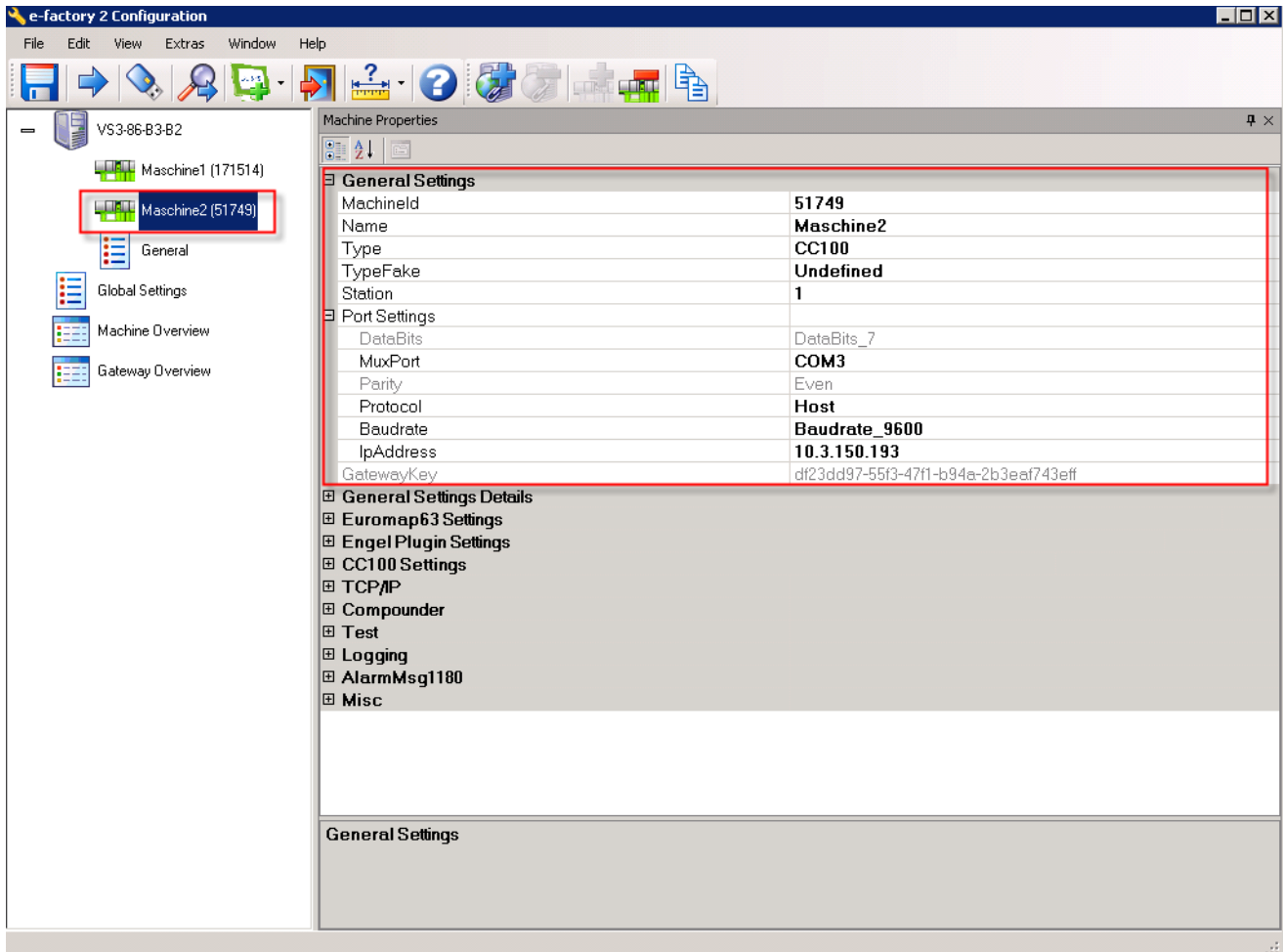
Identification of the communication modules from the server to the machine using a serial COM port:



Select the Station where you want to add your Machine  
Station: instance of the Fileinterface

Station 0 means deactivated.

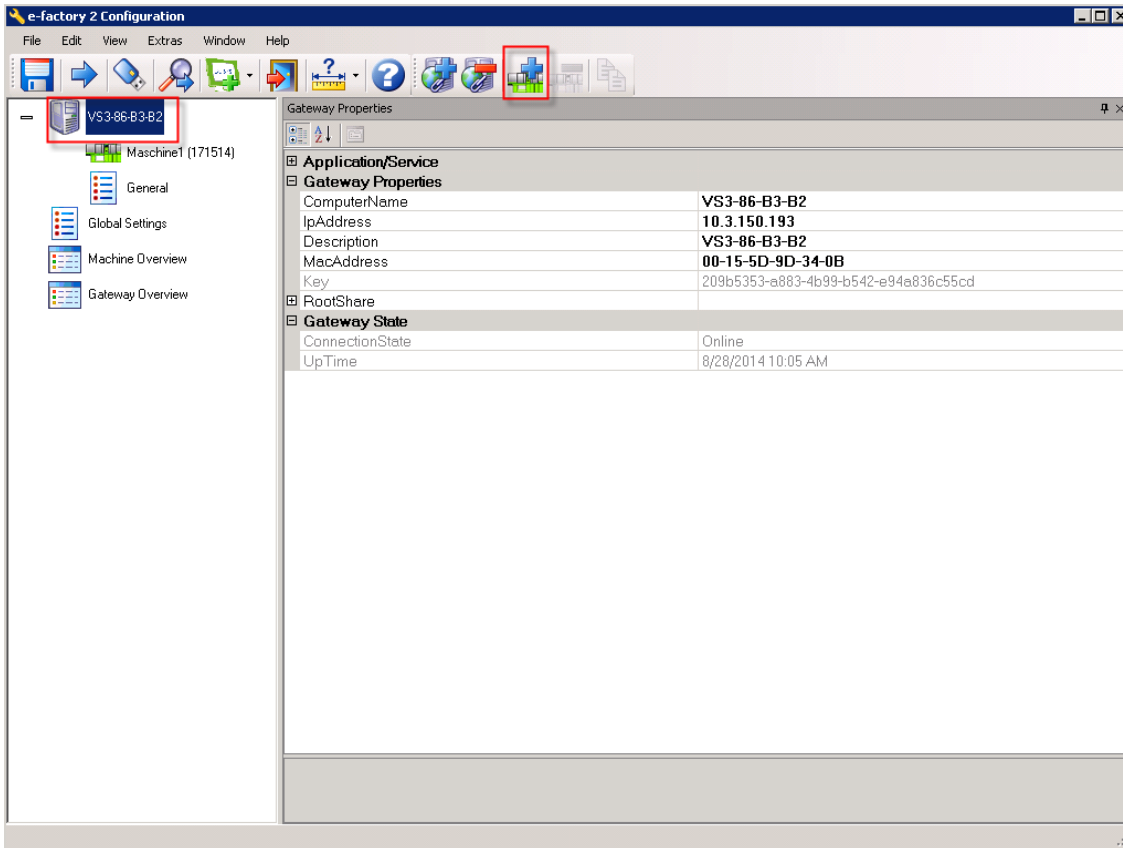
If you have many different machine types, it's recommended to group them to different stations.



The next step is to [Save configuration \(s. a. chapter 6.6\)](#) and [perform update \(s. a. chapter 6.7\)](#) to start the machine.

### 6.5.5. Add Machine C100 – PC-Host

Before adding the C100 Host machine you need to complete the [Installation W&T Redirect \(s. a chapter 6.36.4\)](#) and the [Installation WUtility \(s. a chapter 6.4\)](#) and also complete the [COM-Redirect Configuration \(s. a. chapter 6.5.8\)](#)





### Add Machine

Please select the correct machine type and enter a unique Id and a name for the machine. The protocol indicates whether the machine is connected via HOST, PC-HOST or TCP/IP interface. To import machine data press the "Import machine disc" button and select the location to import the data from. To write an INFO file press the "Write INFO file" button and select the path the file should be written to.

Type: CC100  
Id:   
Name:   
Protocol: Pchost

Import machine disc  
Write INFO file

Cancel < Back Next > Finish

### Browse For Folder

Desktop  
+ Libraries  
+ Administrator  
+ Computer  
+ Network  
+ Control Panel  
Recycle Bin  
51749\_1  
DEMO\_ENGEL\_V14\_5\_22.05.2014

Make New Folder OK Cancel

**Add Machine (ID=51749)**

**Add Machine**

Please select the correct machine type and enter a unique Id and a name for the machine. The protocol indicates whether the machine is connected via HOST, PC-HOST or TCP/IP interface. To import machine data press the "Import machine disc" button and select the location to import the data from. To write an INFO file press the "Write INFO file" button and select the path the file should be written to.



Import Data

|          |           |                                                                                                       |
|----------|-----------|-------------------------------------------------------------------------------------------------------|
| Type     | CC100     |  Import machine disc |
| Id       | 51749     |  Write INFO file     |
| Name     | Maschine2 |                                                                                                       |
| Protocol | PcHost    |                                                                                                       |

Cancel < Back **Next >** Finish

**Add Machine (ID=51749)**

**Add Machine**

Please insert the IP Address of the machine and if necessary the COM Port and the Baudrate.



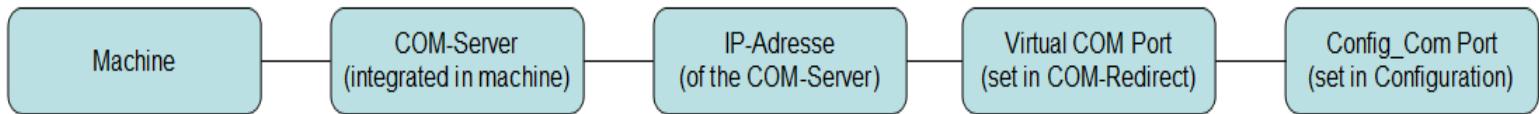
Settings

|            |                |
|------------|----------------|
| IP Address | 10.3.150.193   |
| COM Port   | COM3           |
| Baudrate   | Baudrate_38400 |

Cancel < Back **Next >** Finish

IP address and COM port are examples  
They must be configured at the COM server

Identification of the communication modules from the server to the machine using a serial COM port:



**Add Machine (ID=51749)**

**Add Machine**  
Please select gateway and station the machine is assigned to.

Assign

Gateway: VS3-86-B3-B2

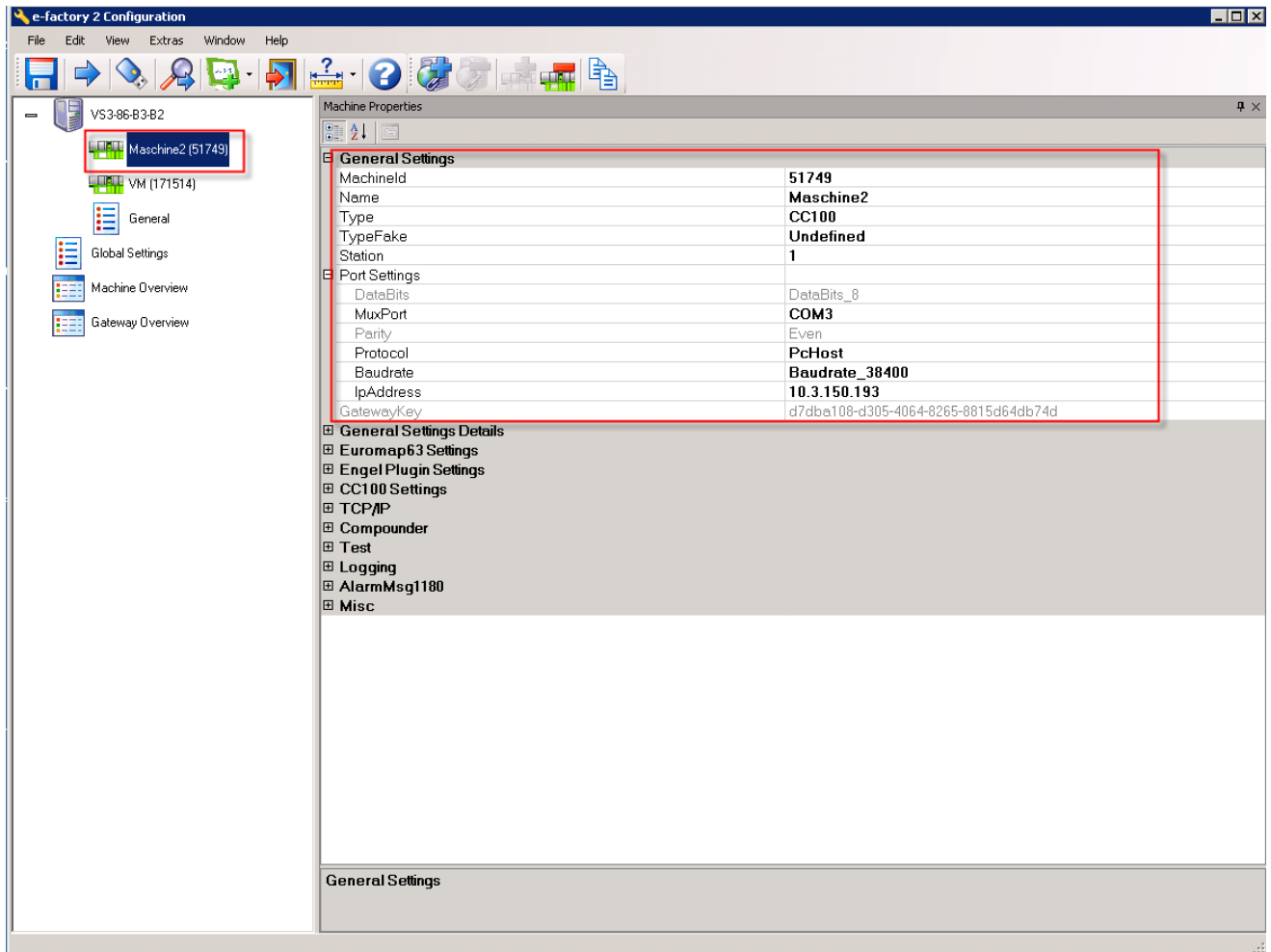
Station: 1

Buttons: Cancel, < Back, Next >, **Finish**

Select the Station where you want to add your Machine  
Station: instance of the Fileinterface

Station 0 means deactivated.

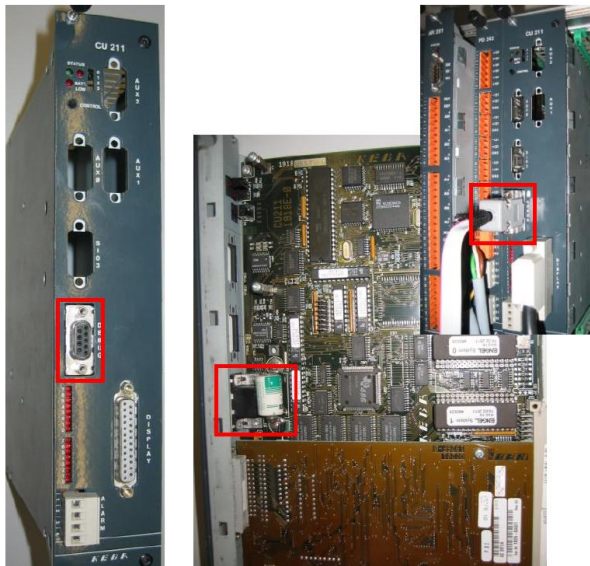
If you have many different machine types, it's recommended to group them to different stations.



The next step is to [Save configuration \(s. a. chapter 6.6\)](#) and [perform update \(s. a. chapter 6.7\)](#) to start the machine.

## 6.5.6. Settings COM Server at CC100 TCP/IP – Slip

### Hardware



- > CU 211
- > debug-connection
- > module SI232



- > Com-Server High Speed
- > RS232/RS422/RS485
- > 10/100BT
- > 24V

### Software – license

- > Under „Setup“ > „License overview“

| License Overview |                             |             |            |                 | - 3 | 2011-02-16 15 20 |
|------------------|-----------------------------|-------------|------------|-----------------|-----|------------------|
| ID               | Funktion                    | Start-Datum | Ende-Datum | optionaler Wert |     |                  |
| 1                | PROZESSDATEN PROTOKOLL      | 2003-04-30  | -          | 0               |     |                  |
| 2                | MICROPLAST                  | 2003-04-30  | -          | 0               |     |                  |
| 3                | MICROFLOW                   | 2003-04-30  | -          | 0               |     |                  |
| 4                | MICROGRAF                   | 2003-04-30  | -          | 0               |     |                  |
| 5                | QUALITÄTSDATENSTATISTIK     | 2003-04-30  | -          | 0               |     |                  |
| 6                | TELESERVICE                 | 2003-04-30  | -          | 0               |     |                  |
| 7                | ENGEL MONITORING SYSTEM     | 2003-04-30  | -          | 0               |     |                  |
| 8                | MAXIMALE SCHLIESSKRAFT      | 2003-04-30  | -          | 450 kN          |     |                  |
| 9                | WOCHENSCHALTUHR             | 2003-04-30  | -          | 0               |     |                  |
| 10               | PROZESSDATEN GRAFIK UND CPC | 2003-04-30  | -          | 0               |     |                  |

- Check if license is active

## Software – RAS-Setup

> Under „Setup“ > „Teleservice“ > „RAS-setup“

| Field                            | Value          |
|----------------------------------|----------------|
| EC/CC100 IP ADDRESS              | 10.3.67.42     |
| EC/CC100 ROUTER IP ADDRESS > RAS | 10.3.67.44     |
| EC/CC100 SUBNET MASK             | 255.255.0.0    |
| RC100 IP ADDRESS KBE             | 192.168.210.12 |
| RAS IP ADDRESS                   | 0.0.0.0        |
| RAS ROUTER IP ADDRESS            | 0.0.0.0        |
| RAS SUBNET MASK                  | 0.0.0.0        |

Start Konfigur. Defaultw. einstellen WERTE AUSS. BEREICH \* [Warning Icon] etc -->

- IP-address of IMM
- IP-address of the COM-Server
- Subnet mask of the network
- Only with CU312 for diagnostic EAT

## Configuration COM-Server

> Configuration of settings

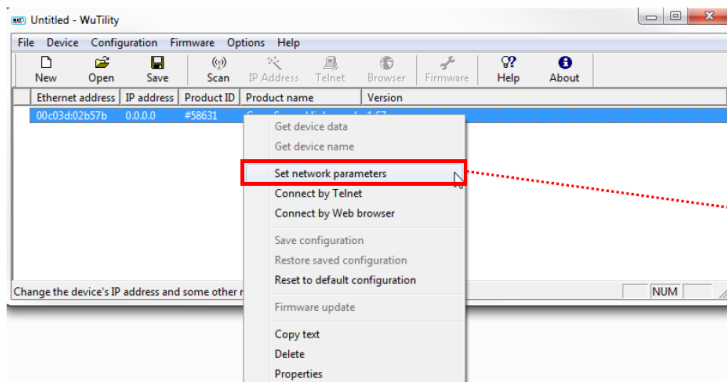
| Ethernet address | IP address | Product ID | Product name         | Version |
|------------------|------------|------------|----------------------|---------|
| 00c03d02b57b     | 0.0.0.0    | #58631     | Com-Server Highspeed | 1.67    |

Ready NUM

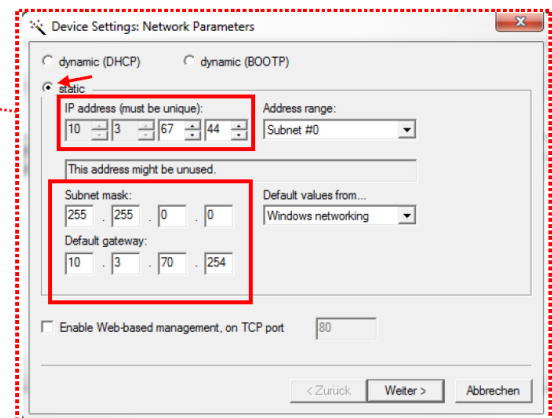
- Scan to identify available COM-Server in the same subnet
- Show the MAC-address but no IP
- Ensure that you will configure the correct COM-server



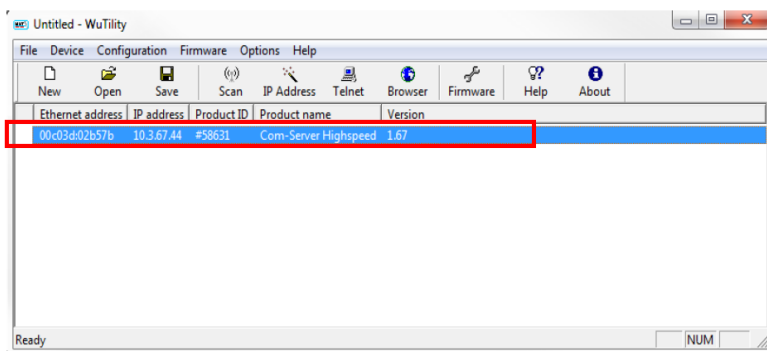
## > Network parameter settings



- IP-address of the COM-Server according to the RAS-Setup

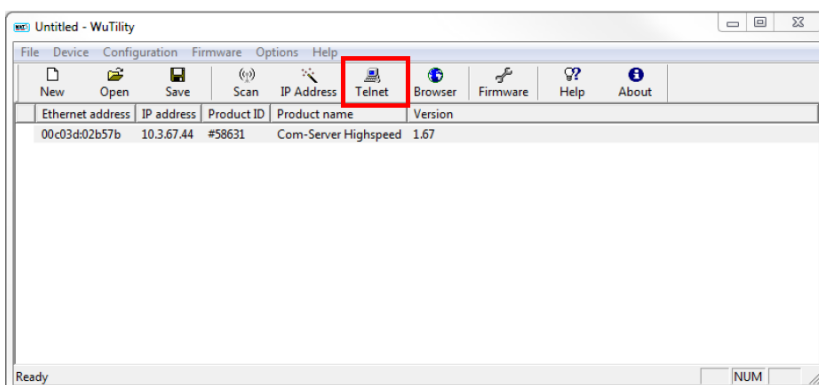


## > Displaying after successfully changing



- It shows you the correct IP-address

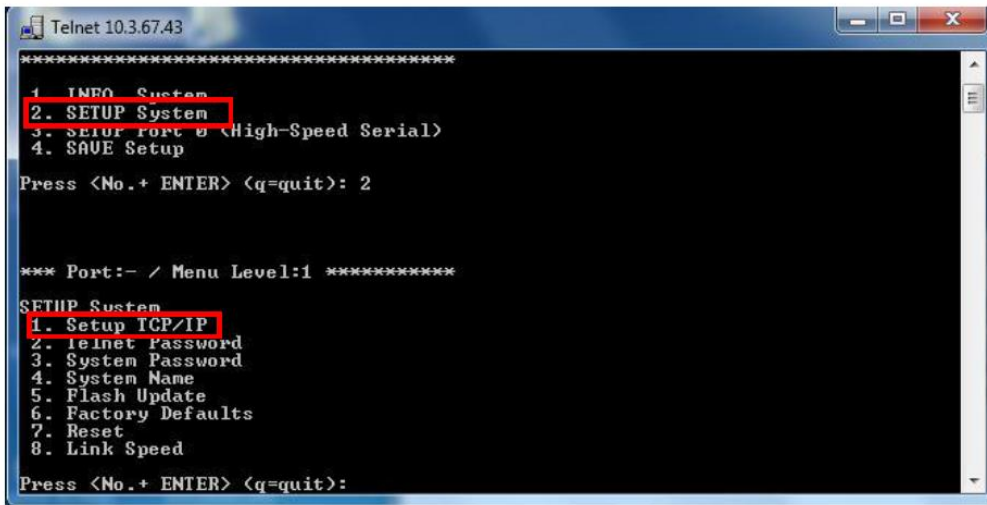
## > Configuration with „Telnet“



- Detail settings for COM-Server

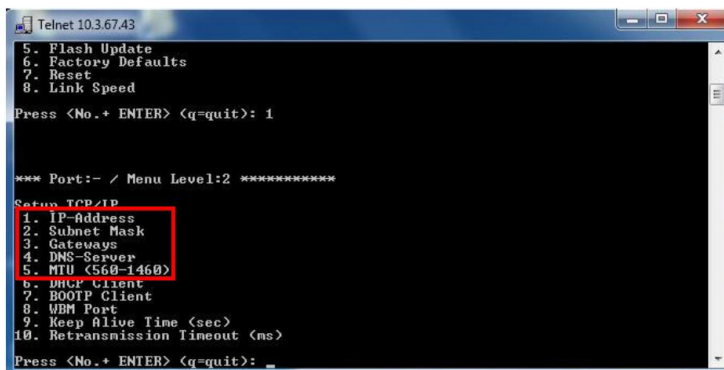


## > Telnet settings



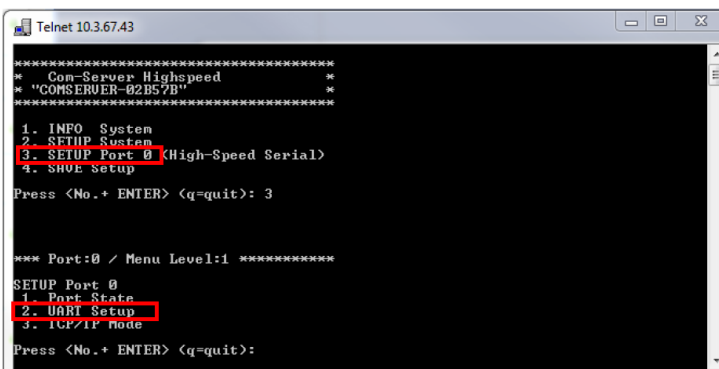
- Setup System
- Setup TCP/IP

## > Telnet „Setup TCP/IP“ settings



- IP-address > should be set already
- Subnet mask > should be set already
- Gateways > should be set already
- MTU(Maximum Transmission Unit) > 1020

## > Telnet settings



- Setup port
- UART Setup (Universal Asynchronous Receiver Transmitter > detailed settings for send and receive of datas



## > Telnet „UART Setup“

```

Telnet 10.3.67.43
*** Port:0 / Menu Level:1 *****
SETUP Port 0
1. Port State
2. UART Setup
3. TCP/IP Mode
Press <No.+ ENTER> <q=quit>: 2

*** Port:0 / Menu Level:2 *****
<9600 N 8 1 H FIFOs OFF>
1. Baud:
2. Parity:
3. Data Bits:
4. Stopbit:
5. Handshake:
6. Receive Buffer <InQueue>:
7. Send/Rec FIFO:
Press <No.+ ENTER> <q=quit>:
  
```

- Baud > 115,2
- Parity > none
- Data Bits > 8
- Stopbit > 1
- Handshake > hardware
- FIFO > ON

## > Telnet settings

```

Telnet 10.3.67.43
*****
* Com-Server Highspeed *
* "COMSERUER-02B57B" *
*****
1. INFO System
2. SETUP System
3. SETUP Port 0 <High-Speed Serial>
4. SHOE Setup
Press <No.+ ENTER> <q=quit>: 3

*** Port:0 / Menu Level:1 *****
SETUP Port 0
1. Port State
2. UART Setup
3. TCP/IP Mode
Press <No.+ ENTER> <q=quit>:
  
```

- Setup port
- TCP/IP mode

## > Telnet „SLIP Router“ settings

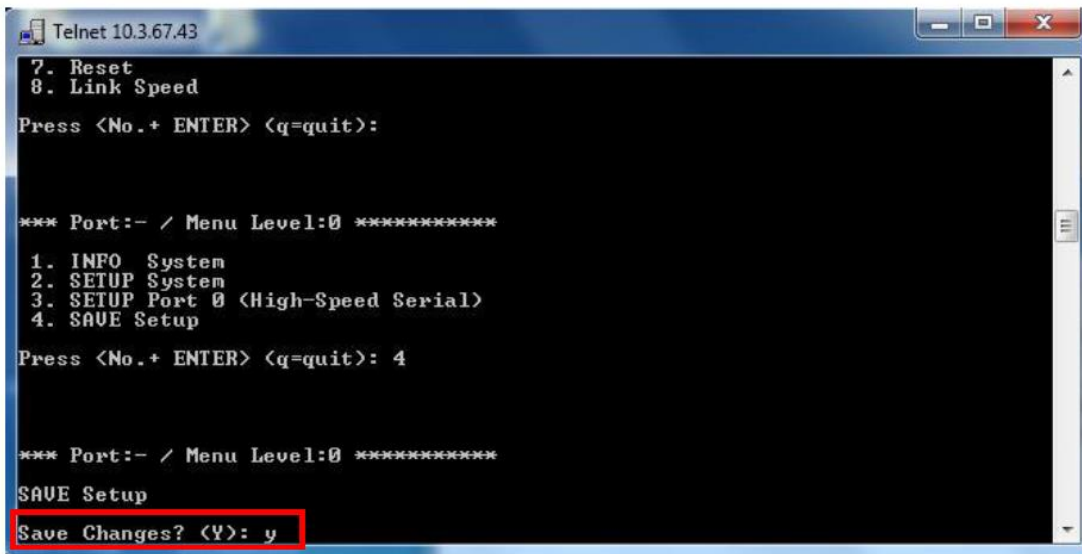
```

Telnet 10.3.67.44
TCP/IP Mode
1. Local Port <TCP/UDP>
2. Control Port <ICP>
3. TCP Client
4. UDP Client
5. Serial Socket Interface
6. Telnet Client
7. FTP Client
8. Box to Box
9. IP-Box Mode
10. SLIP Router
11. System Options
Press <No.+ ENTER> <q=quit>: 10

*** Port:0 / Menu Level:3 *****
SLIP Router
1. Net Address
2. SLIP-Net Routing
Press <No.+ ENTER> <q=quit>:
  
```

- Net Address > setup the IP-address of the machine!
- SLIP-Net Routing > OFF

## > Save configuration



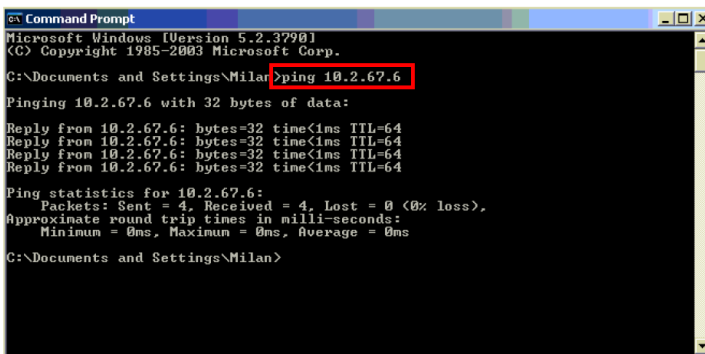
```

Telnet 10.3.67.43
7. Reset
8. Link Speed
Press <No.+ ENTER> <q=quit>:

*** Port:- / Menu Level:0 *****
1. INFO System
2. SETUP System
3. SETUP Port 0 <High-Speed Serial>
4. SAVE Setup
Press <No.+ ENTER> <q=quit>: 4

*** Port:- / Menu Level:0 *****
SAVE Setup
Save Changes? (Y): y
    
```

## > Ping



```

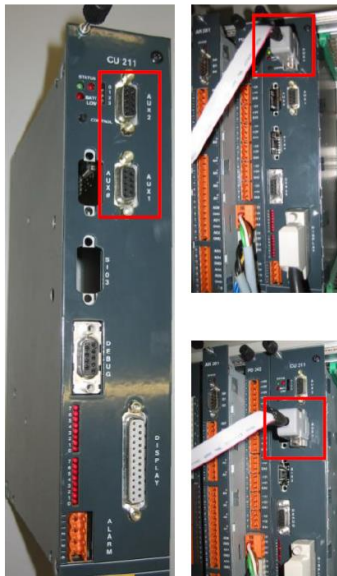
C:\Documents and Settings\Milar>ping 10.2.67.6
Pinging 10.2.67.6 with 32 bytes of data:
Reply from 10.2.67.6: bytes=32 time<1ms TTL=64
Reply from 10.2.67.6: bytes=32 time<1ms TTL=64
Reply from 10.2.67.6: bytes=32 time<1ms TTL=64
Reply from 10.2.67.6: bytes=32 time<1ms TTL=64

Ping statistics for 10.2.67.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\Documents and Settings\Milar>
    
```

- Ping to the address of the COM-Server
- COM-Server is forwarding the network traffic to the machine
- In real you will ping the machine

## 6.5.7. Settings COM Server at CC100 Host/PC-Host

### Hardware



- > CU 211
- > PC-host connection or host connection
- > module SI232



- > Com-Server High Speed
- > RS232/RS422/RS485
- > 10/100BT
- > 24V

### Software

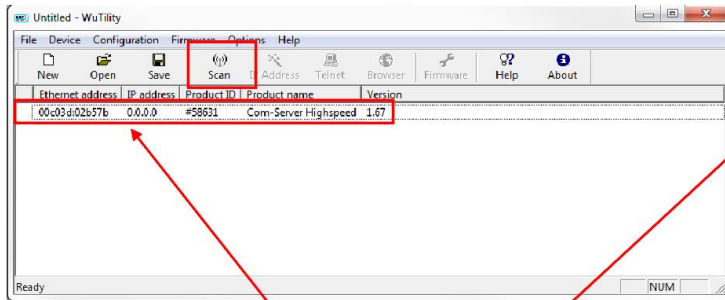
- > Access under „Test and Parameter“ > „SIO-Debugger“

| TEST und PARAMETER |         |          |        |        |          |          |        |       |        |
|--------------------|---------|----------|--------|--------|----------|----------|--------|-------|--------|
| SIO-Debugger       |         |          |        |        |          |          |        |       |        |
| #                  | Name    | Baudrate | In:    | Out:   | Stopbits | Databits | Parity | Incnt | Outcnt |
| 0                  | TEST    | 38400    | 38400  | 38400  | 1        | 8        | no     | 0     | 0      |
| 1                  | Printer | 300      | 9600   | 9600   | 1        | 8        | no     | 0     | 22498  |
| 2                  | KFTC    | 4800     | 4800   | 4800   | 1        | 8        | even   | 1371  | 1195   |
| 3                  | Floppy  | 115200   | 115200 | 115200 | 1        | 8        | even   | 27412 | 64078  |
| 4                  | pc-host | 38400    | 38400  | 38400  | 1        | 8        | even   | 0     | 124    |
| 5                  | host    | 9600     | 9600   | 9600   | 1        | 7        | even   | 0     | 0      |

- PC-host > faster baudrate (standard 38400)
- Host > slower baudrate (standard 9600)

# Configuration COM-Server

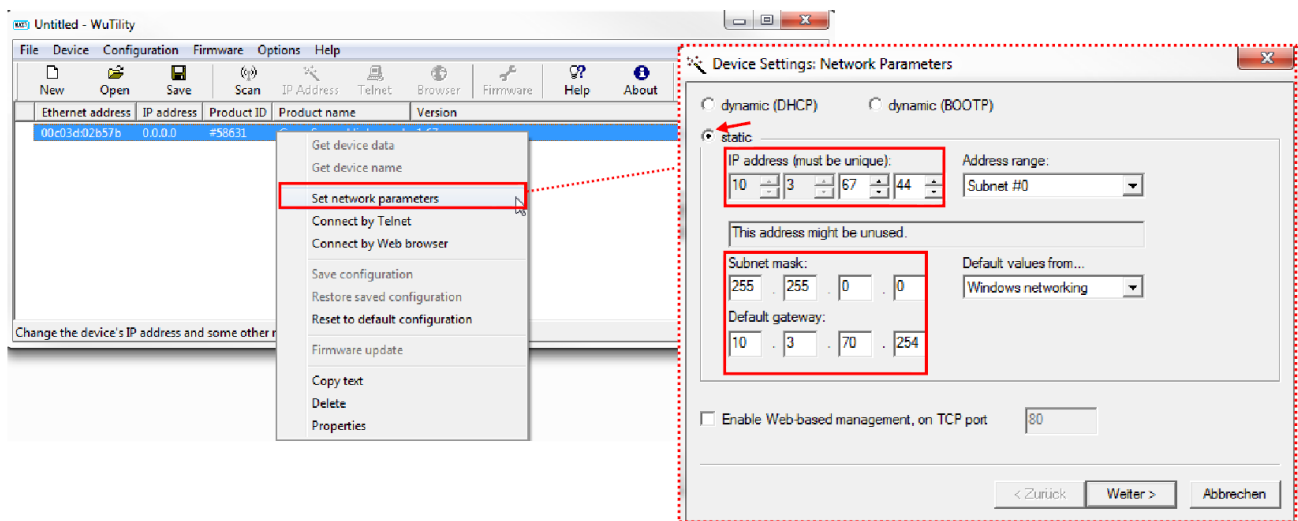
## > Configuration of settings



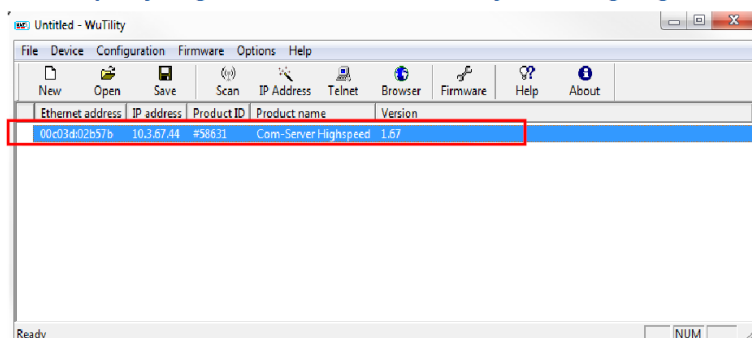
- Scan to identify available COM-Server in the same subnet
- Show the MAC-address but no IP
- Ensure that you will configure the correct COM-server



## > Setup network parameter



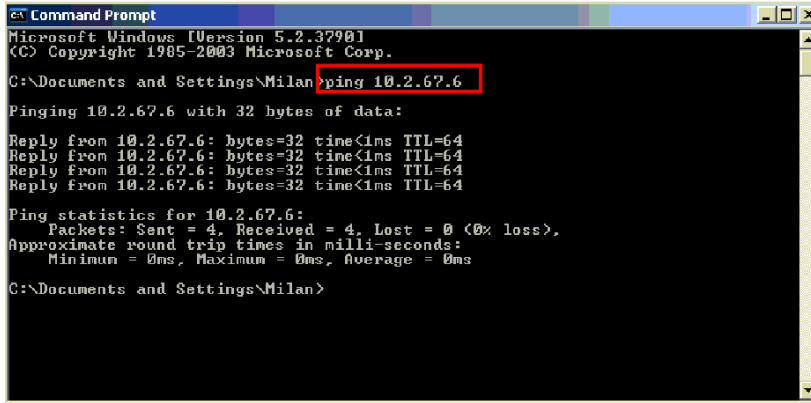
## > Displaying after successfully changing



- It shows you the correct IP-address

## Function test COM-Server

### >Ping



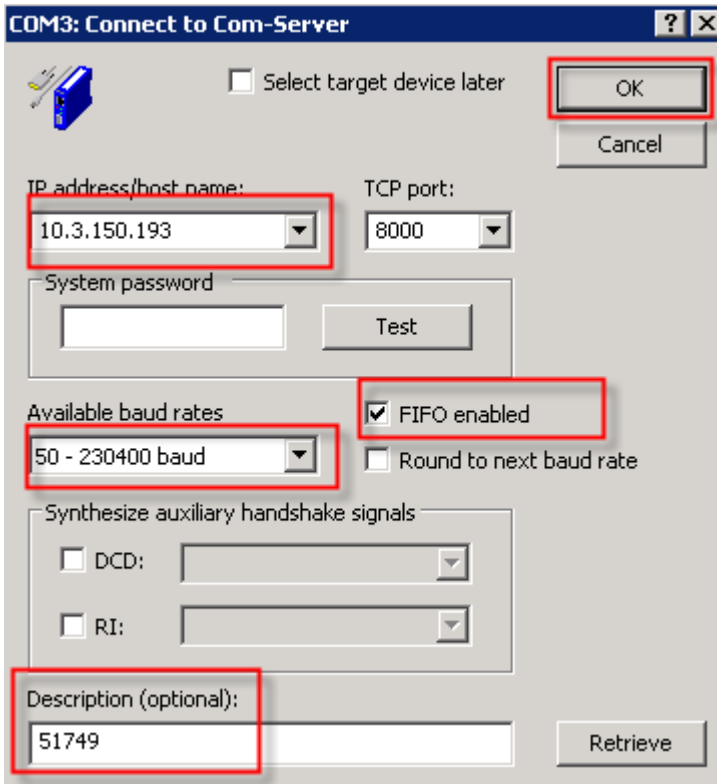
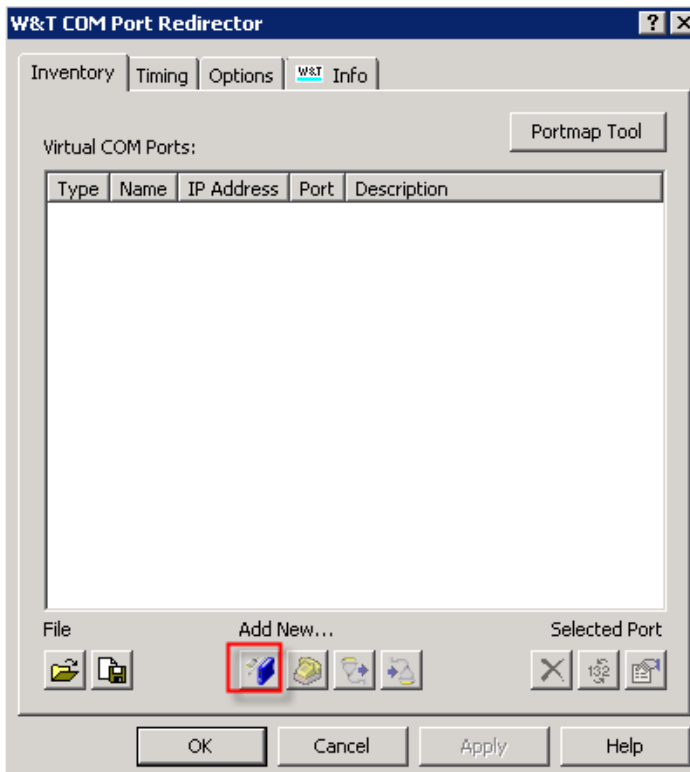
```

C:\Documents and Settings\Milan>ping 10.2.67.6
Pinging 10.2.67.6 with 32 bytes of data:
Reply from 10.2.67.6: bytes=32 time<1ms TTL=64
Reply from 10.2.67.6: bytes=32 time<1ms TTL=64
Reply from 10.2.67.6: bytes=32 time<1ms TTL=64
Reply from 10.2.67.6: bytes=32 time<1ms TTL=64
Ping statistics for 10.2.67.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\Documents and Settings\Milan>
    
```

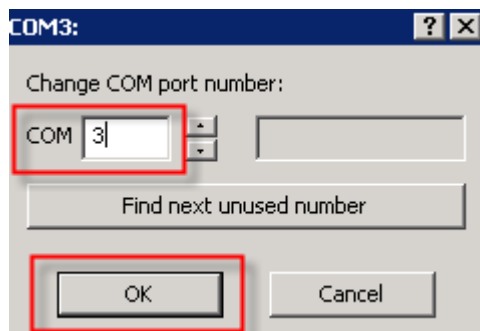
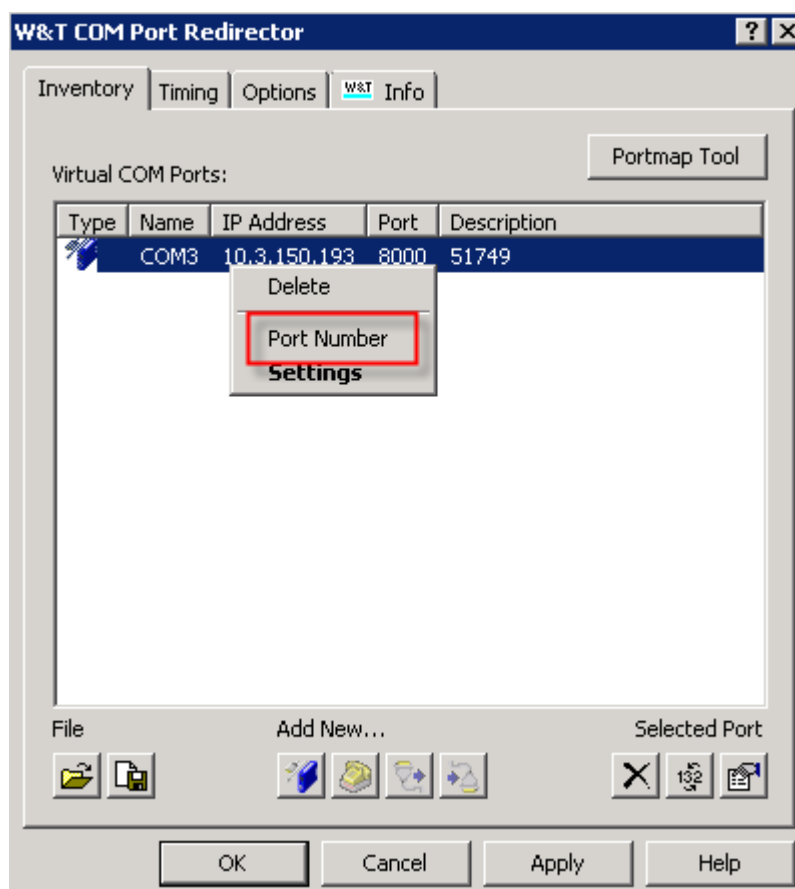
- Reply from... > OK
- Request Timed out > problem

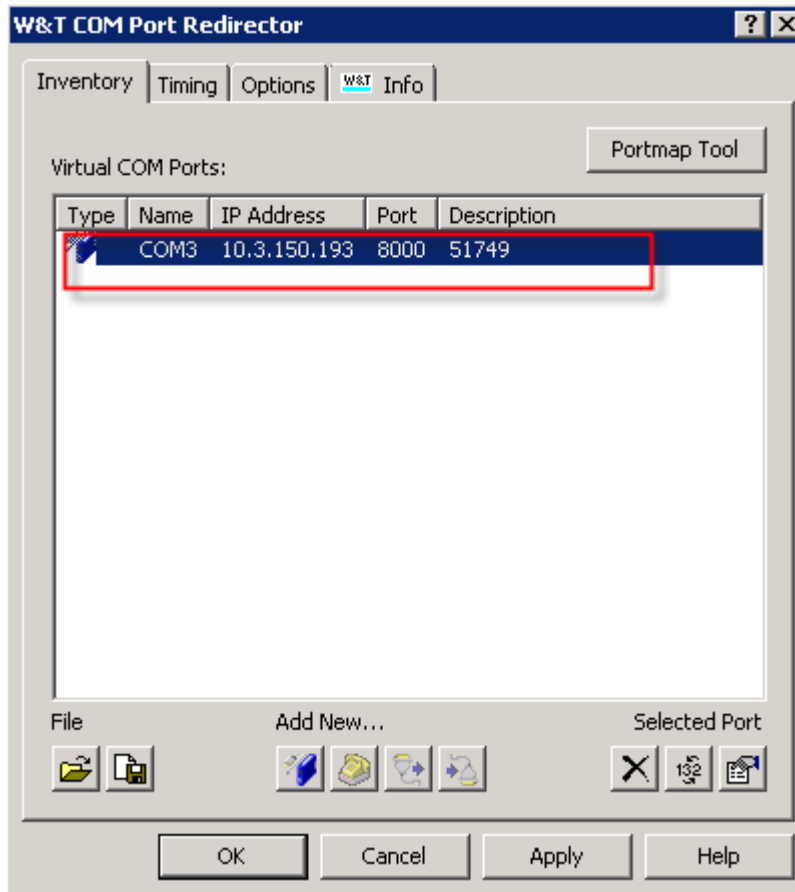
## 6.5.8. Configuration COM-Redirect

(as in Config-Settings)



→ Rechtsklick



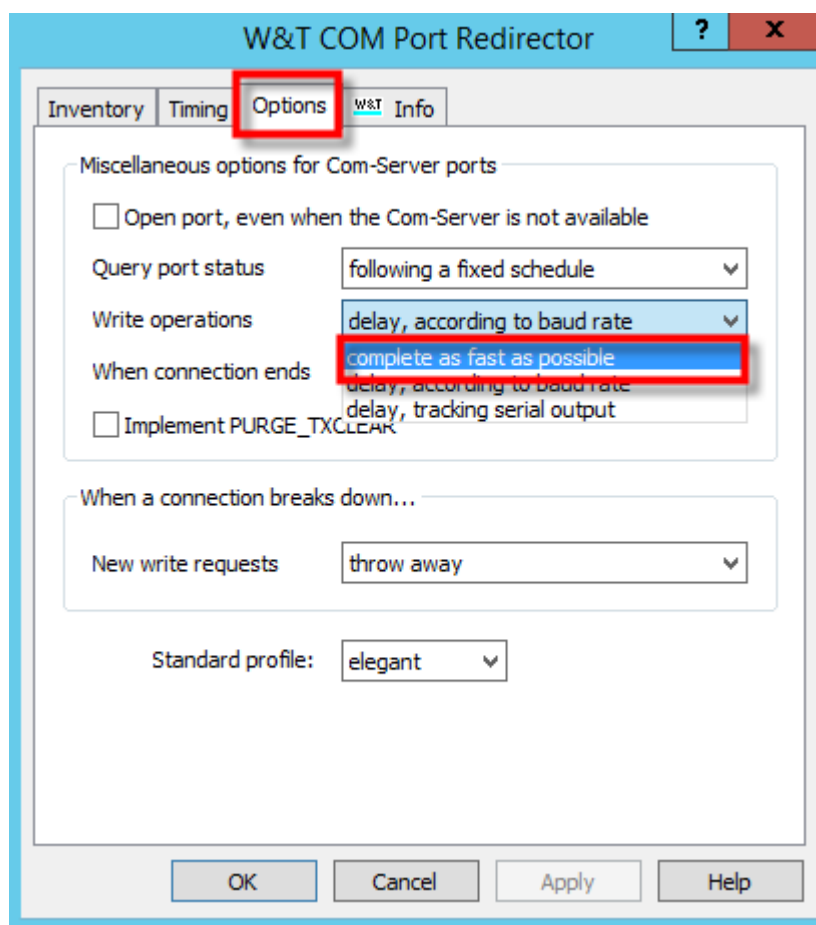


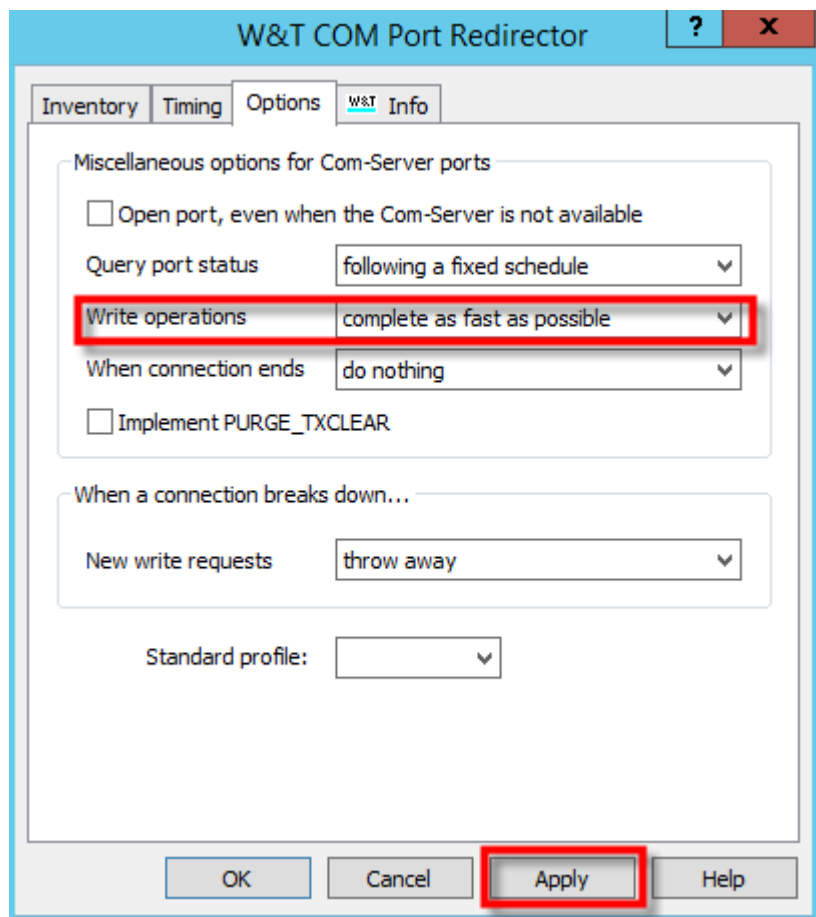


## Version:

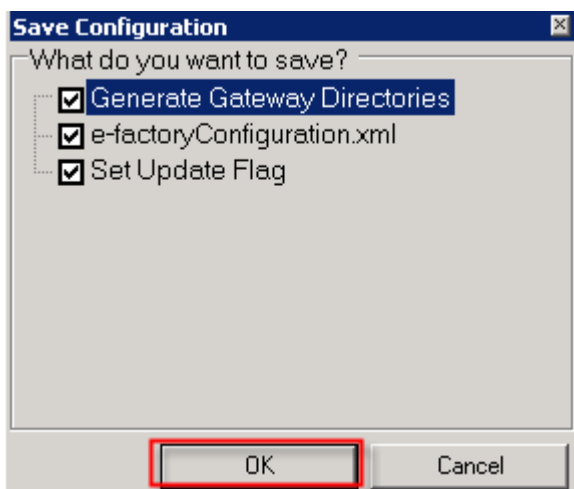
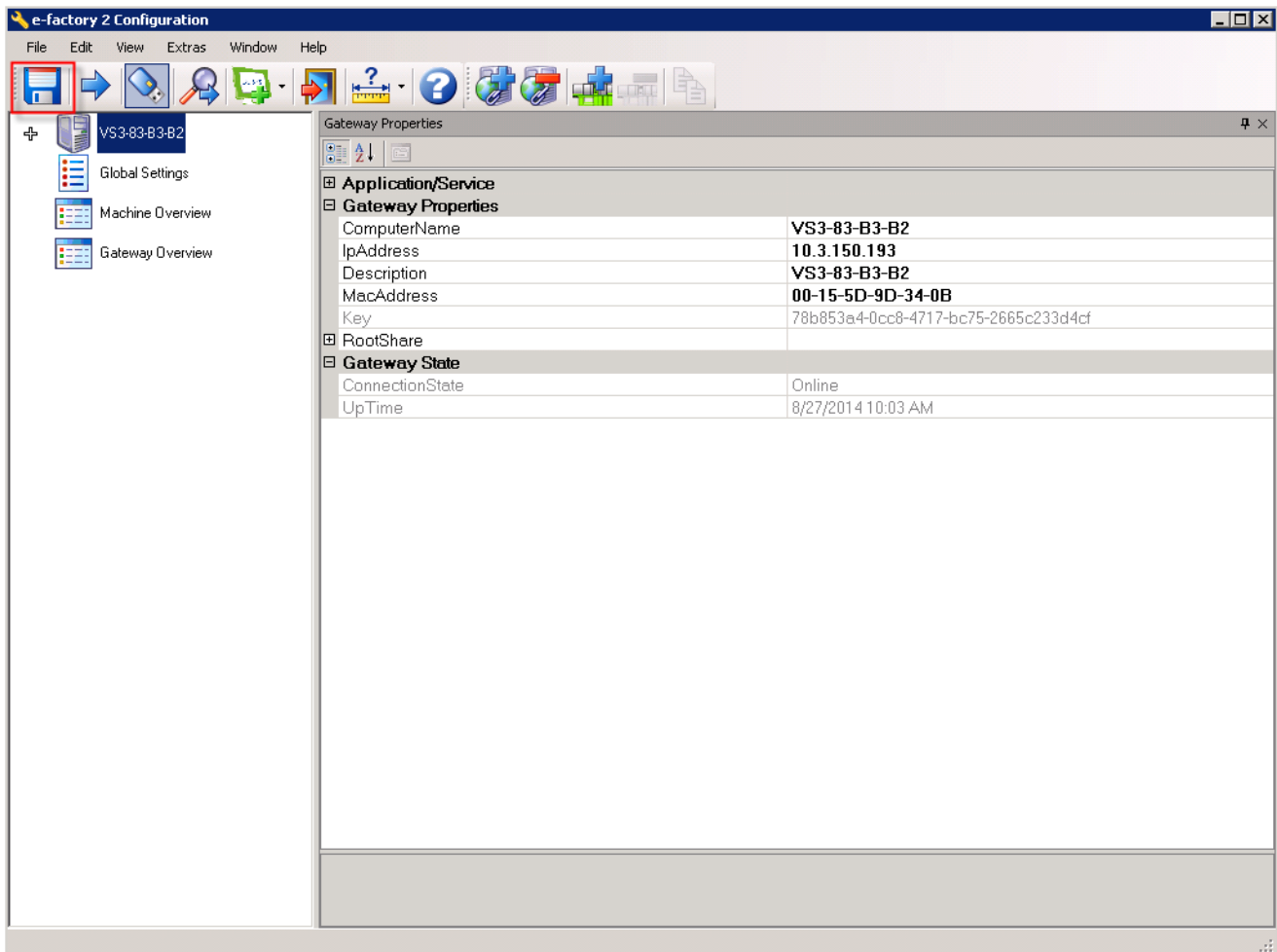
Starting at version 4.12 you have to configure one additional setting because there was a change in the W&T software:

| Date            | Changes and comments                                                                                                                                          | Revisions |                                                  |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------|
| July 24, 2015   | -                                                                                                                                                             | 4.21      | EXE - approx. 8.76MB<br><a href="#">download</a> |
| January 5, 2015 | - Installation optimized<br>- Corrections/additions to the optional tools Companion and Portmap<br>- Setup of virtual COM ports optimized                     | 4.20      | EXE - approx. 8.76MB<br>[on request]             |
| June 30, 2014   | - Serial API: Event handling revised/corrected<br>- Optional baud rate-dependent write delay corrected<br>- Cosmetic corrections in Config tool and Companion | 4.12      | EXE - approx. 8.37MB<br>[on request]             |
| April 30, 2014  | - New setup as *.exe with language option<br>- DNS resolution improved<br>- Rare bluescreen mainly in virtual environments fixed                              | 4.10      | EXE - approx. 8.34MB<br>[on request]             |





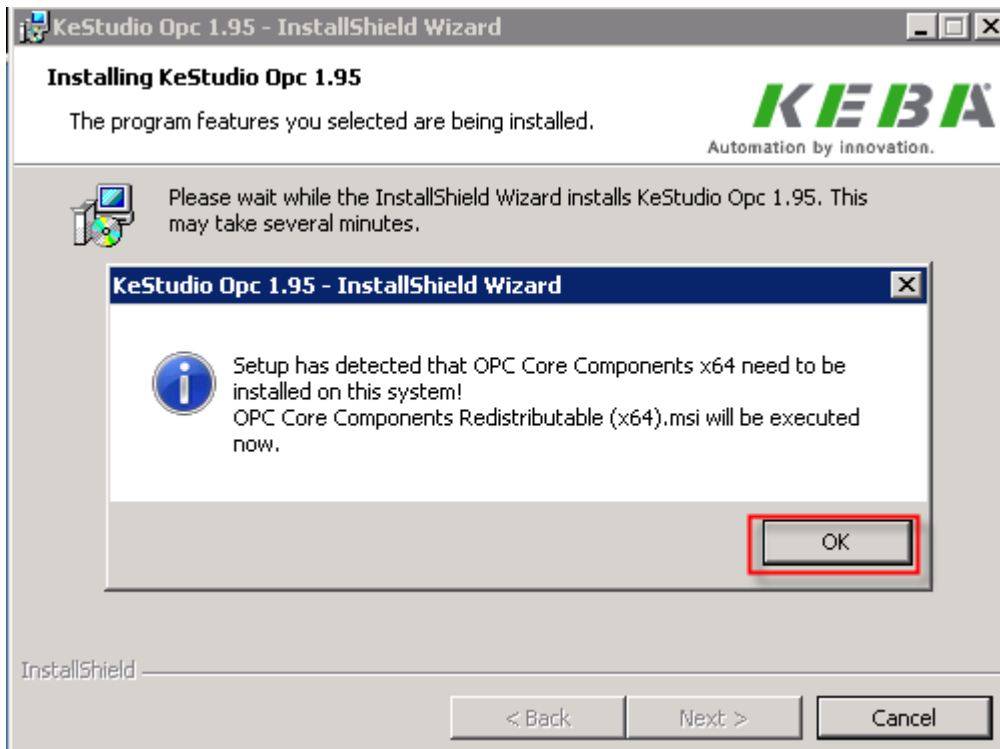
## 6.6. Save Configuration

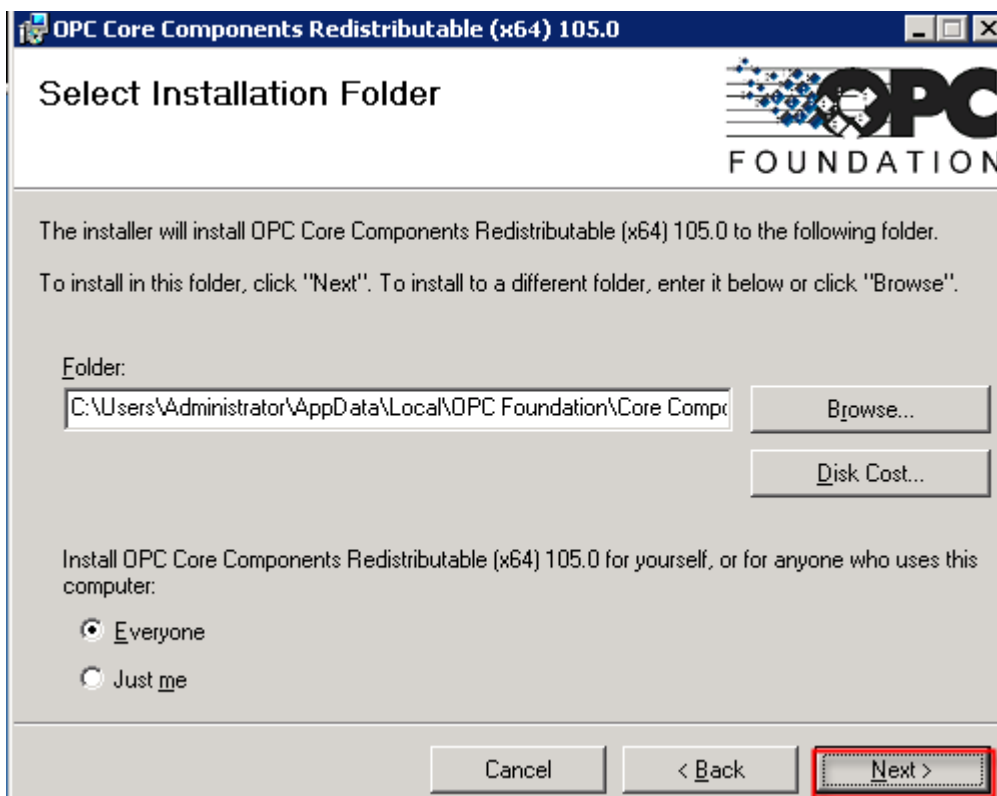
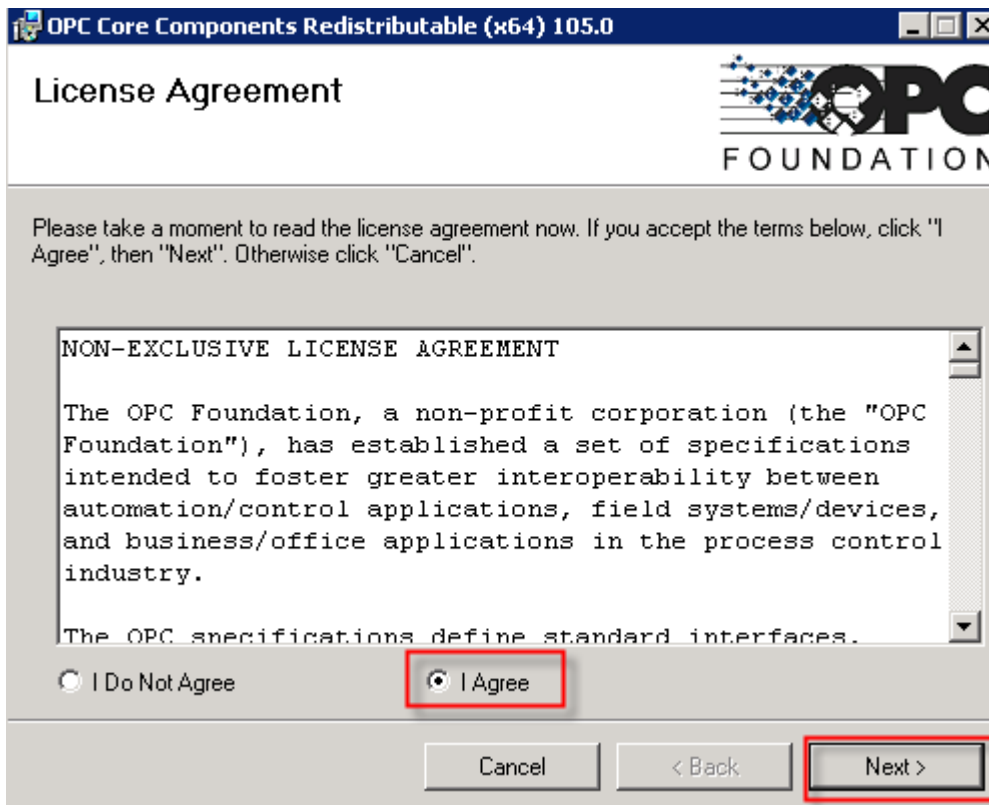


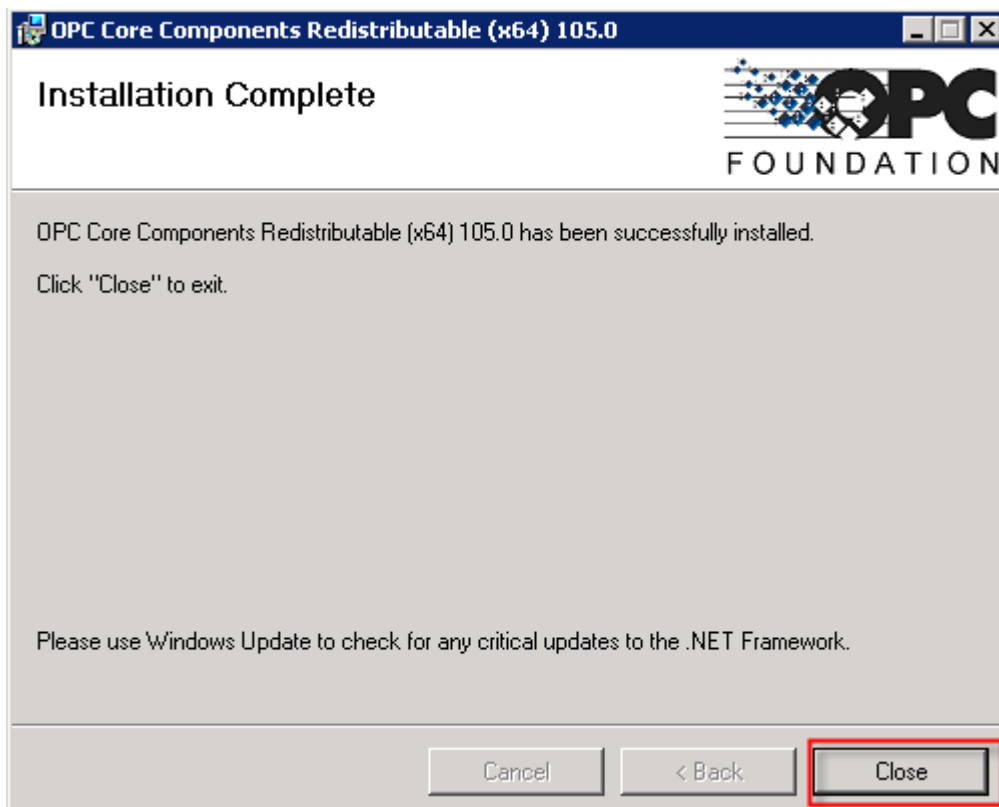
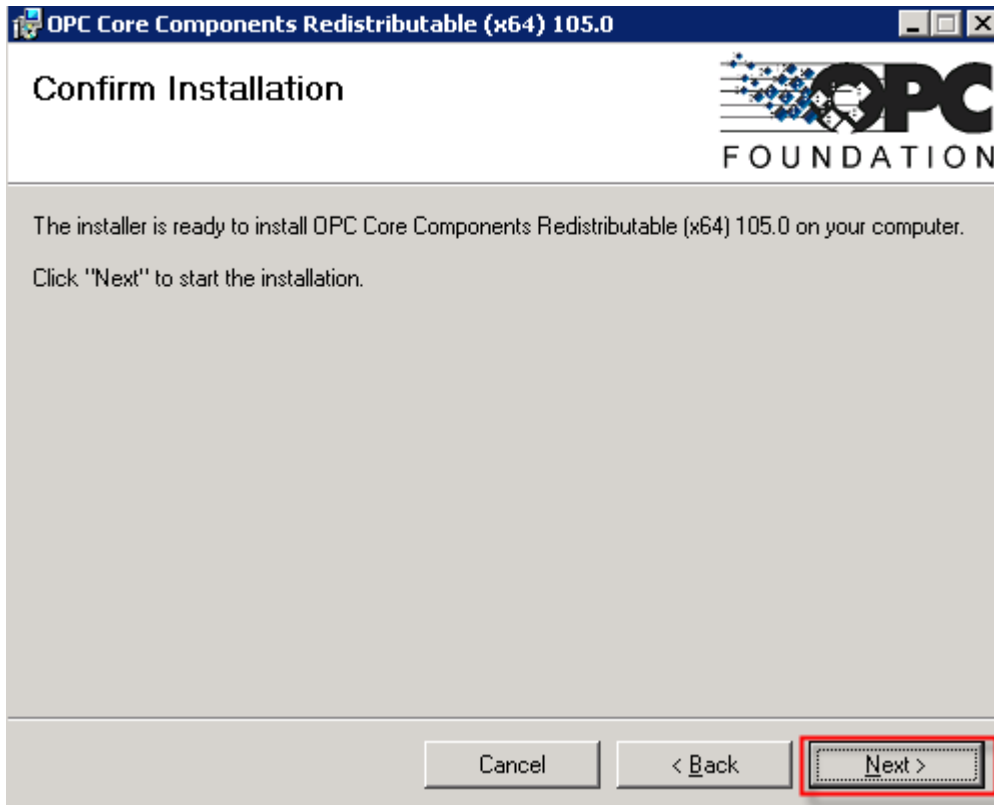
## 6.7. Perform Update

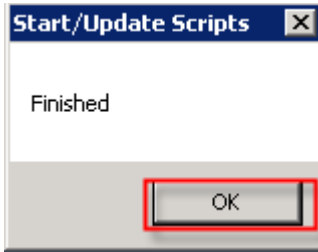


Start update via double-click





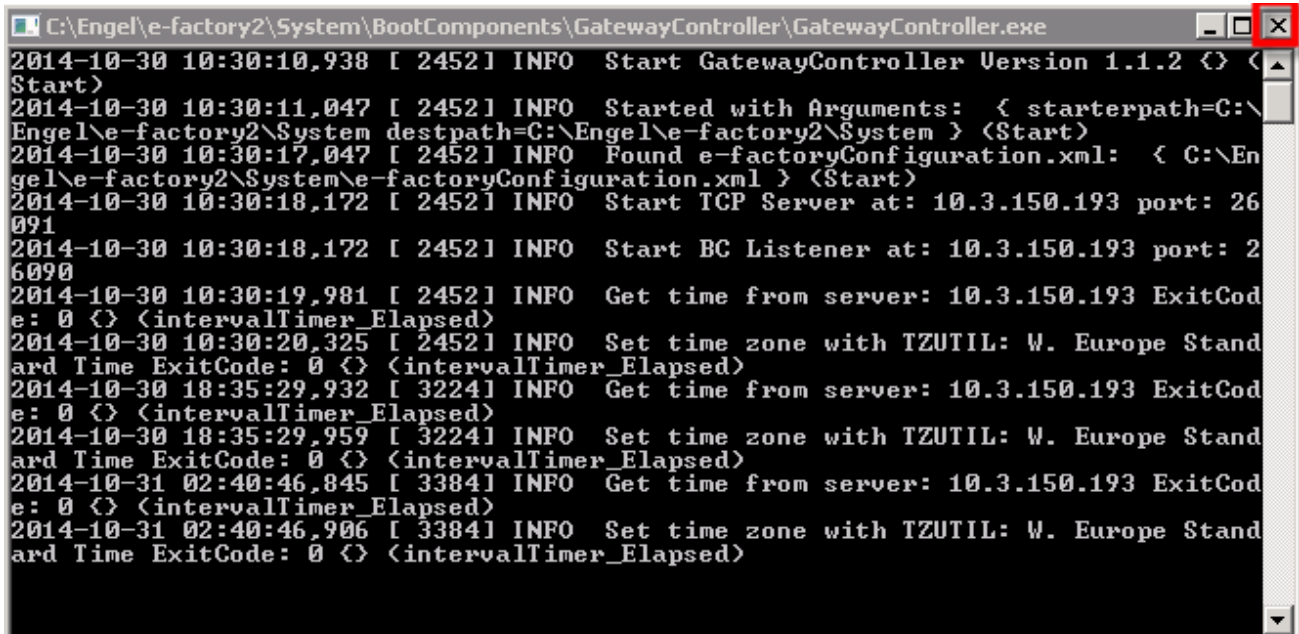




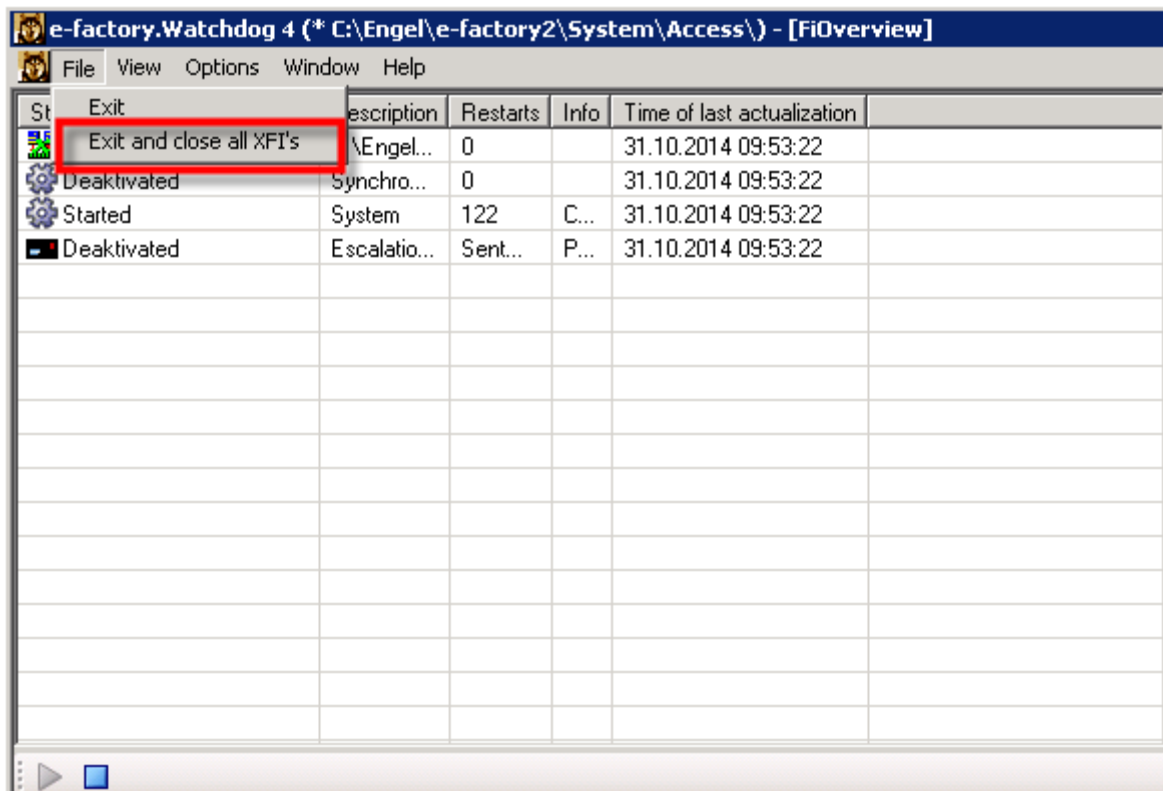
Watchdog, Fileinterfaces and Gateway controller should be started after performing update.

## 6.8. Close System

### 6.8.1. Close Gateway Controller



### 6.8.2. Watchdog → Exit and close all XFI's





## 6.9. Configure IPC IP-address

The configuration of the IP-Address on the IPC is needed, if there is no DHCP server in the network available. This is possible in different ways:

### 6.9.1. Change IP configuration directly via Monitor, USB-Mouse and USB-Keybaord

*Change IP configuration on an Old IPC*

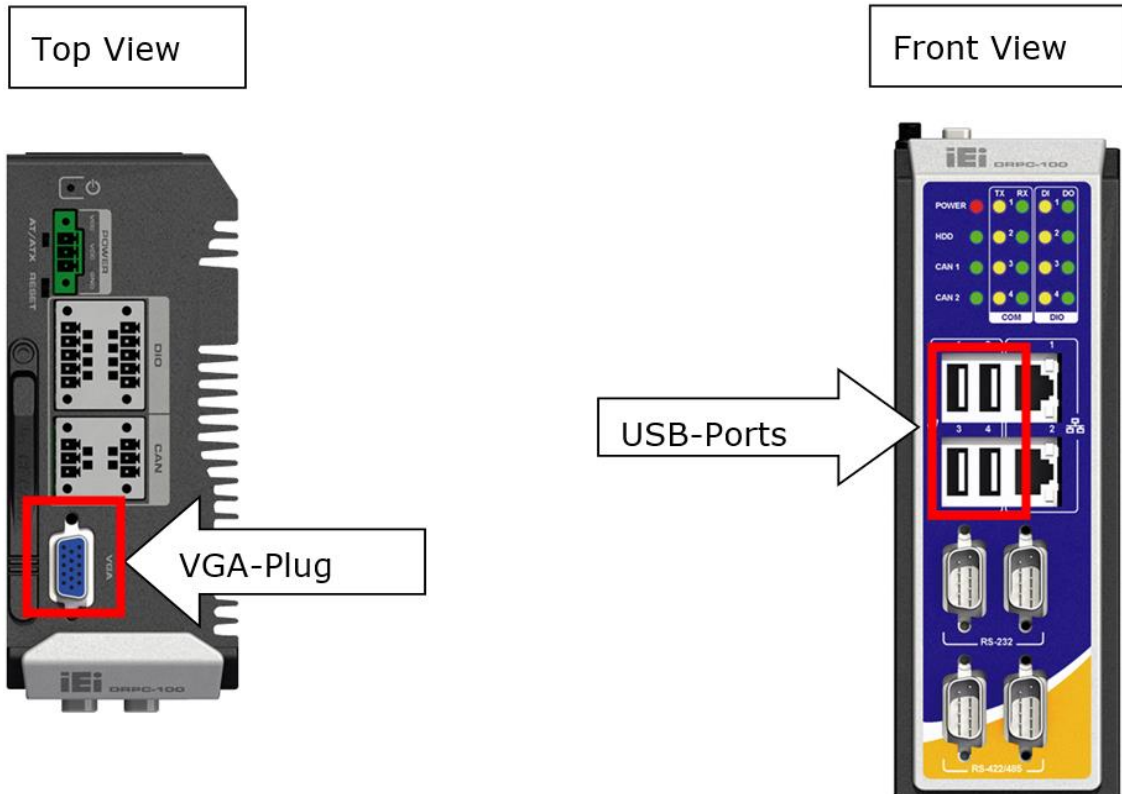
Pull off the cover of the IPC. You will find the VGA-Plug inside to connect the Monitor. Additionally connect the Keyboard and Mouse via USB.



Continue with chapter 6.9.3.

## Change IP configuration on a new IPC

Connect the monitor to the VGA-Plug on top of the IPC. Additionally connect the keyboard and mouse via USB. Keyboard is optional in case of using the virtual keyboard of the Windows Operating System.



Continue with chapter 6.9.3.

### **6.9.2. Change IP configuration remotely**

IPC Standard IP configuration:

The IPC is configured to obtain the IP-Address automatically from a DHCP-Server. If there is no DHCP-Server the IPC tries to get the following alternative address:

**IP-Addresss:     192.168.157.100**  
**Subnetmask:     255.255.255.0**

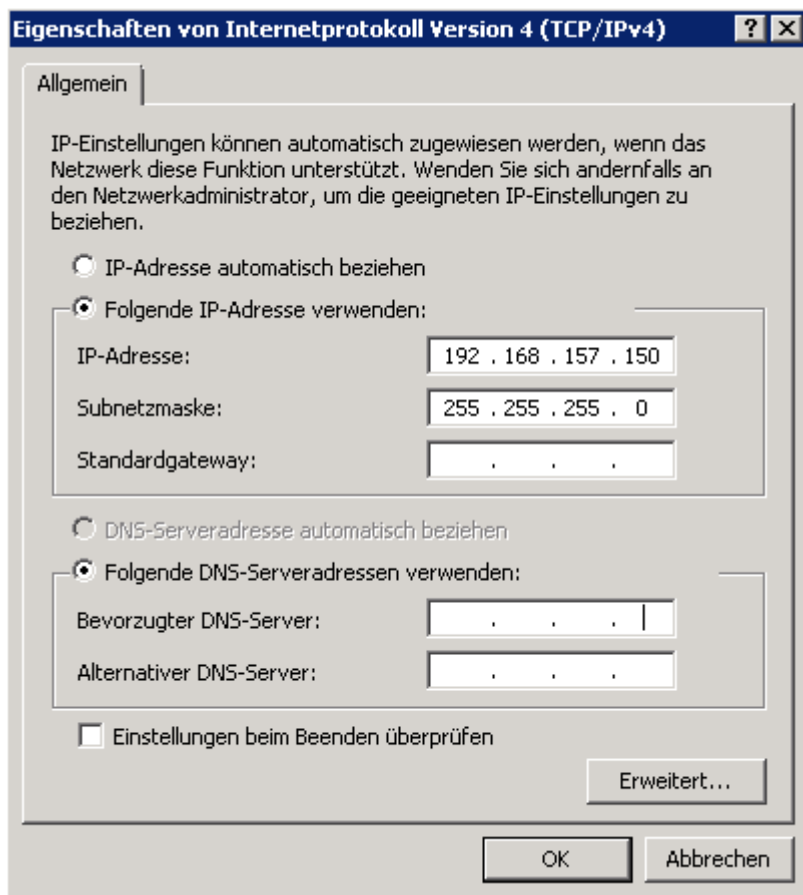
It can take about 2 or 3 minutes until the IPC gets this address after if it has not found a DHCP server. If there are more then one IPC in the subnet, only one IPC will get this address. So it might be a benefit if you connect only one IPC at a time.

**Note: Please be patient to wait the 2 or 3 minutes.**

## Configuration via Service Laptop

In case of temporary laptop you can connect directly to the LAN 2 port of the IPC (that is the free port, because LAN 1 is already connected to the local switch). Afterwards edit the IP-Settings of the Laptop.

Configure settings like this:



Be sure you have an IP-Address in the same subnet as the IPC.  
For example:

|                      |                 |
|----------------------|-----------------|
| IPC IP-Address:      | 192.168.157.100 |
| Notebook IP-Address: | 192.168.157.150 |
| Subnetmaske:         | 255.255.255.0   |

Continue with chapter 6.9.3.

*Configuration via Desktop/Server-Computer in the machine network*

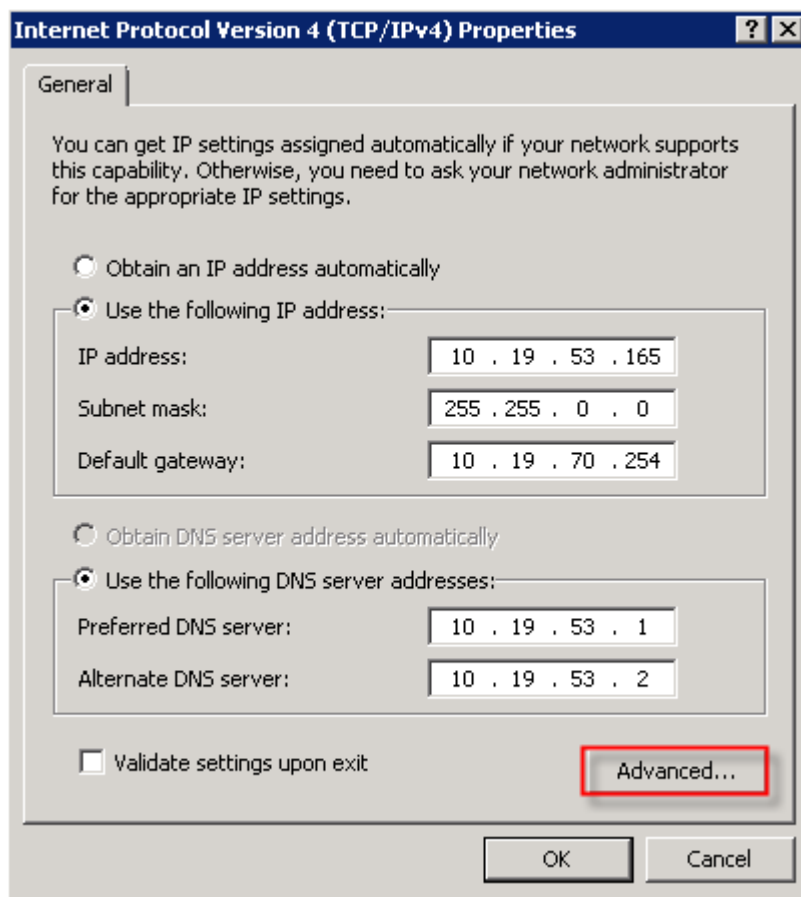
**Note: Cabling between machine, IPC and Desktop/Server-Computer have to be fully completed, to use this option!**

Normally the IPC alternative IP configuration does not match to the local network configuration as the customer uses currently.

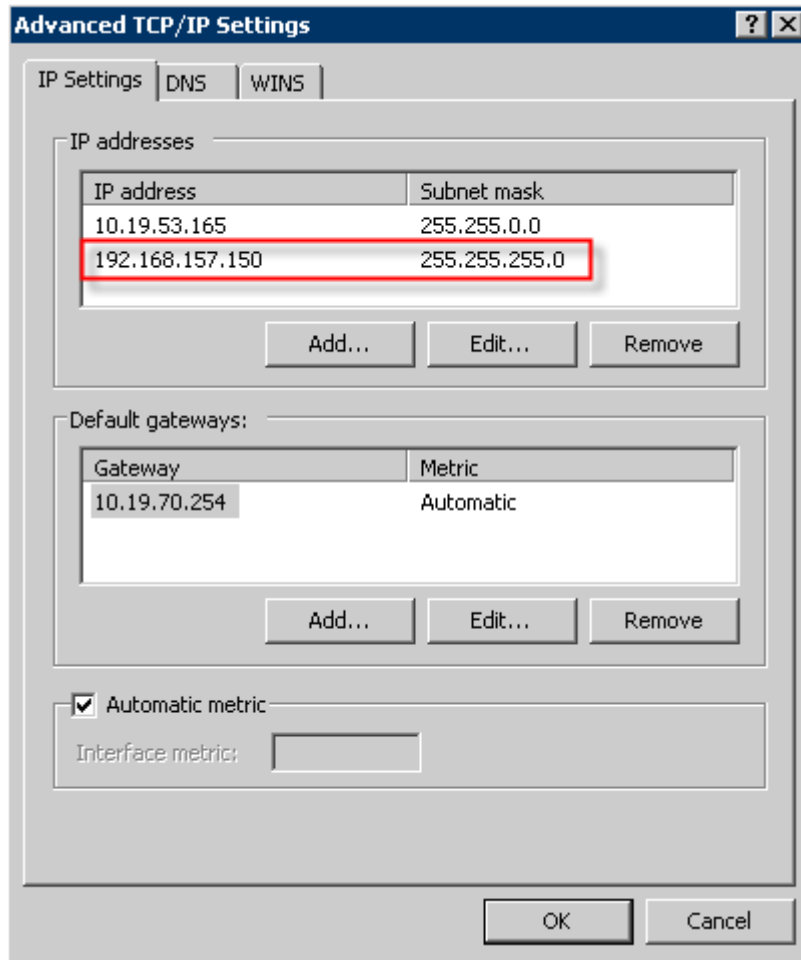
To make it possible nevertheless to communicate with the IPC you have to configure an additional address in the range of the IPC:

Open the properties of the corresponding network adapter to the machine network on the server and edit the IPv4 properties.

Then press the "Advanced..." button.



Then configure an additional address as seen in the screenshot below.



The IP address you specify have to be in the same subnet (192.168.157.x) as the IPC is. (Do not use the IP-Address of the IPC!!!)

After that you should be able to connect to the IPC via Remote Desktop and configure the needed IP-Address.

Continue with chapter 6.9.3.

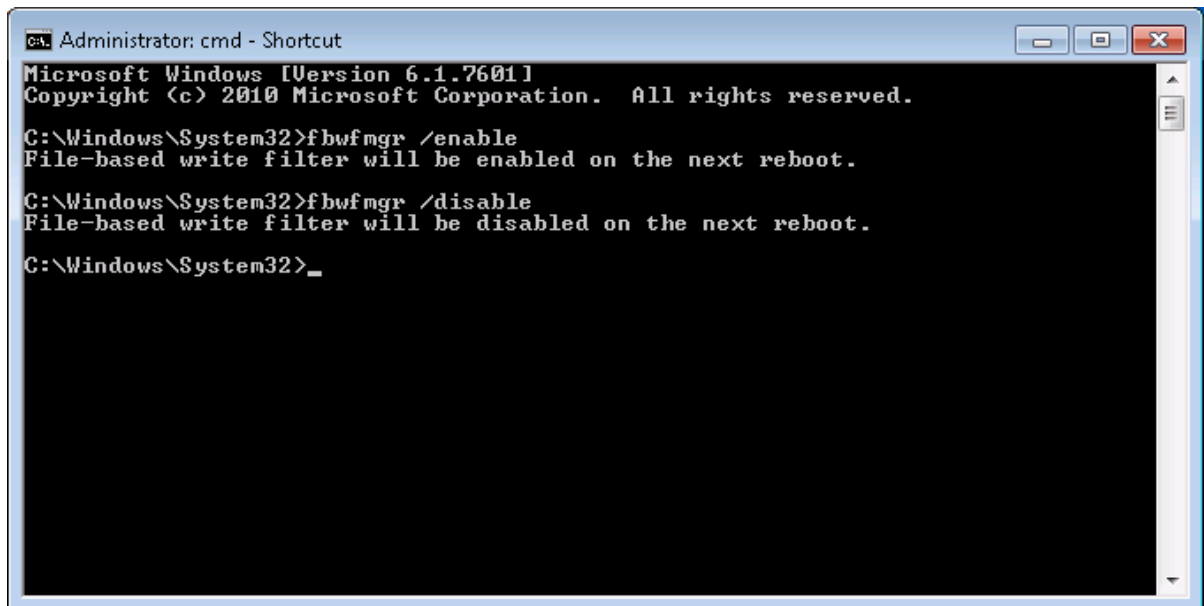
### 6.9.3. Changing the IP settings considering the “File based write filter” (Directly or with Remote Desktop)

*Changing the IP settings on an old IPC*

If you are able to login on the IPC (directly or via Remote Desktop) you have to take care of the “File based write filter” (FBWF) which is activated on the IPC.

If the FBWF is enabled all the changes done on the IPC are lost after a restart. So you have to switch off the FBWF on the IPC to change the IP-Address.

- Deactivate the FBWF on the IPC (enter the command “fbwfmgr /disable” in the command line. (cmd.exe)



```

Administrator: cmd - Shortcut
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2010 Microsoft Corporation. All rights reserved.

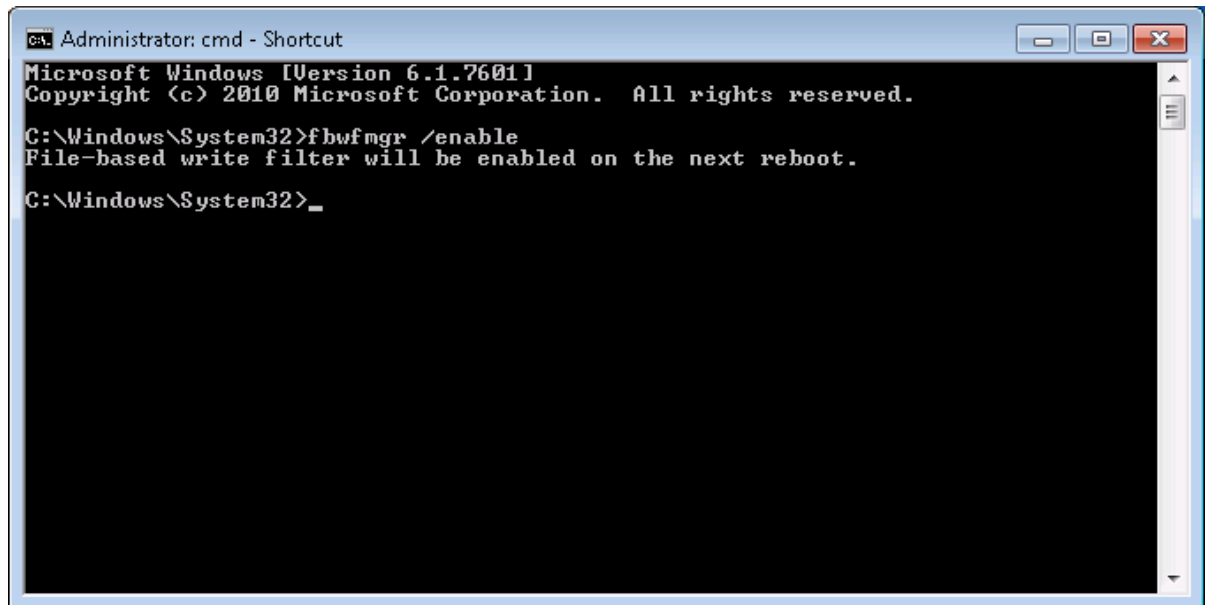
C:\Windows\System32>fbwfmgr /enable
File-based write filter will be enabled on the next reboot.

C:\Windows\System32>fbwfmgr /disable
File-based write filter will be disabled on the next reboot.

C:\Windows\System32>_
  
```

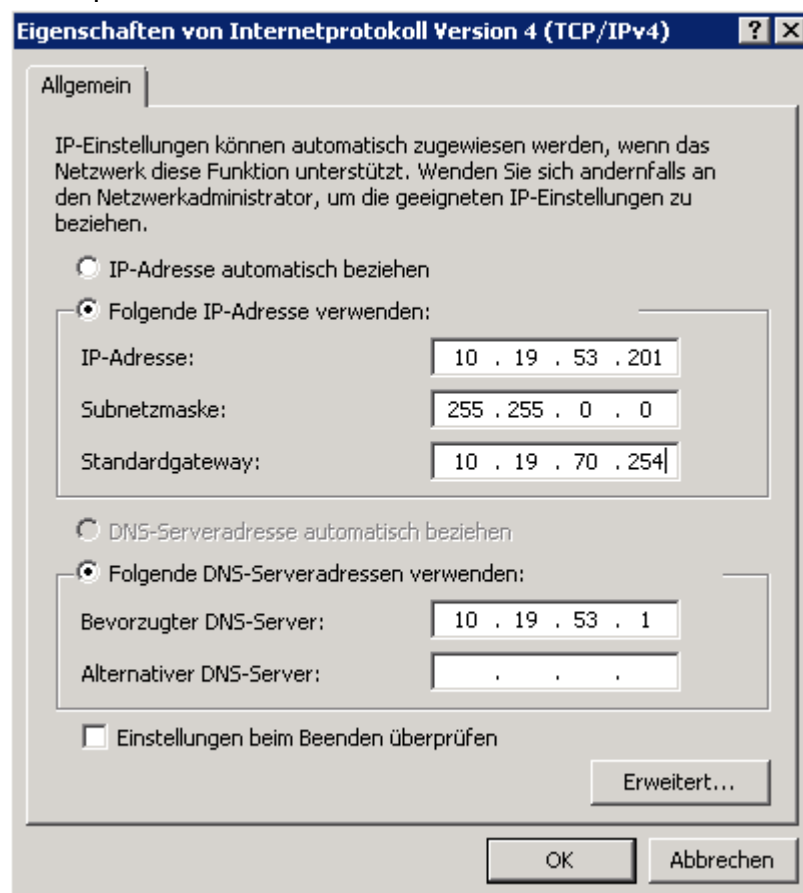
- Restart the IPC (the FBWF is only deactivated after the restart)
- Reconnect to the IPC via Remote Desktop if needed (Take care that the alternative address is not configured immediately, so the IPC is responding after a few minutes)

- Activate the FBWF ("fbwfmgr /enable")



- Set the IP-Address of the IPC to the needed one (If you are connected via Remote desktop, the connection will be lost after that)

Example:



- You can configure/scan the IPC with the "e-factory Configuration" tool now.



## *Changing the IP settings on a new IPC*

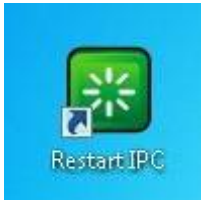
If you are able to login on the IPC (directly or via Remote Desktop) you have to take care of the "File based write filter" (FBWF) which is activated on the IPC.

If the FBWF is enabled all the changes done on the IPC are lost after a restart. So you have to switch off the FBWF on the IPC to change the IP-Address.

- Disable the FBWF via the shortcut shown below



- Restart the IPC via the shortcut shown below (the FBWF is only deactivated after the restart)



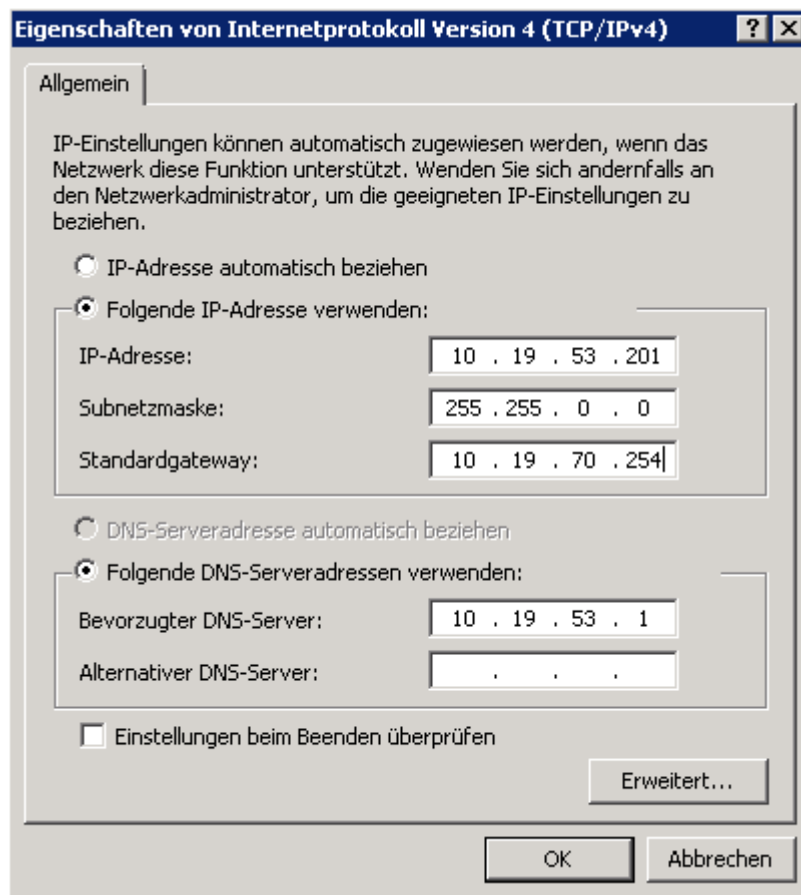
- Reconnect to the IPC via Remote Desktop if needed (Take care that the alternative address is not configured immediately, so the IPC is responding after a few minutes)

- Activate the FBWF via the shortcut shown below



- Set the IP-Address of the IPC to the needed one (If you are connected via Remote desktop, the connection will be lost after that)

Example:

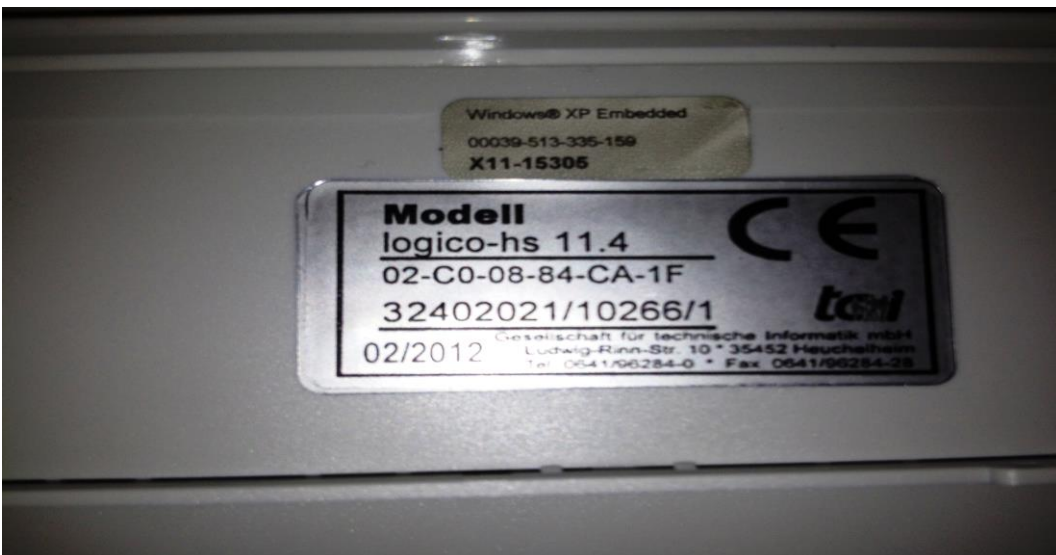


- You can configure/scan the IPC with the "e-factory Configuration" tool now.

## 6.10. Check IPC name

*Check IPC name on an old IPC*

To find the name of the IPC you have to open the service-cover.  
The name is generated like this: "TCI-PC-Last 6 Digits of the MAC-adress"  
Example: "TCI-PC-84-CA-1F"



*Check IPC name on a new IPC*

You can find the name of the IPC on two labels which are on the housing of the IPC.



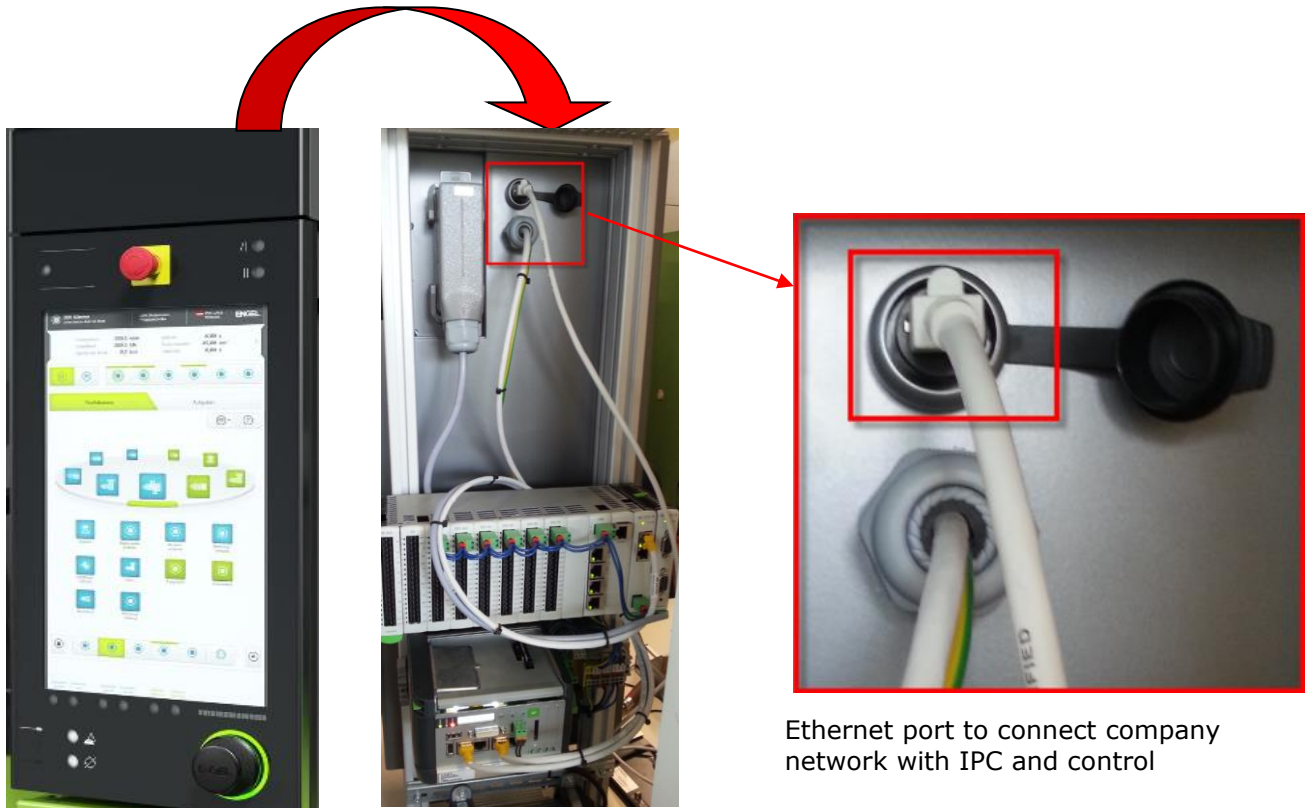


In this case the IPC name is "S04640914".

## 6.11. IPC wiring

### 6.11.1. Company network → backside of the panel

This connection is for the whole machine communication.

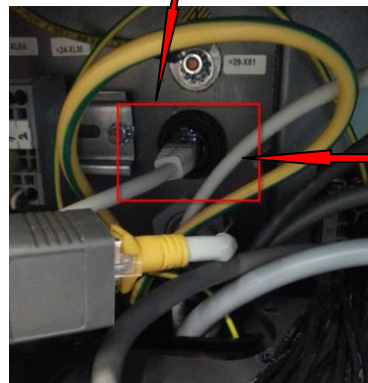
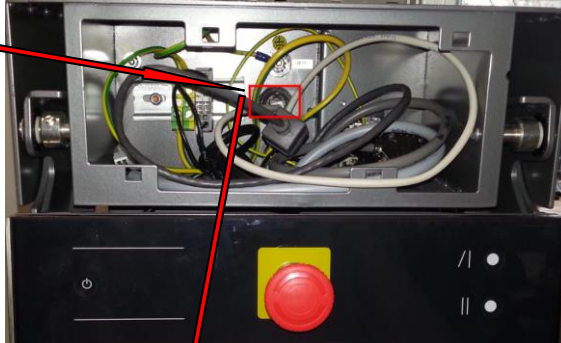




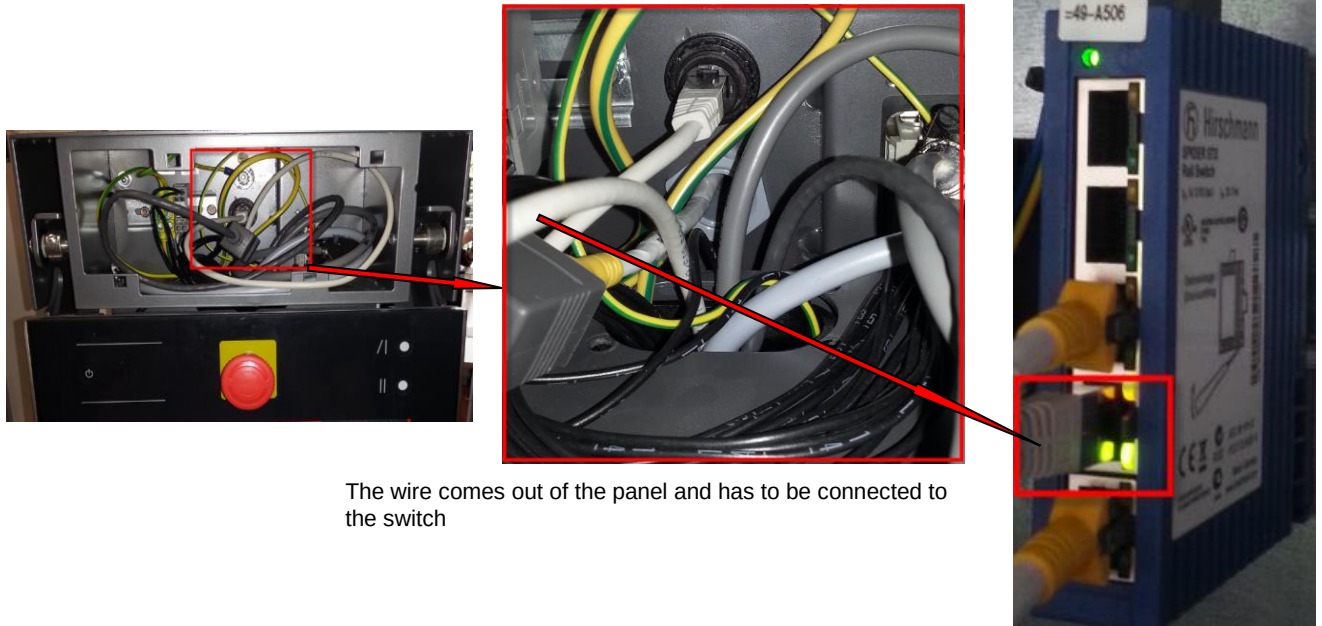
### 6.11.2. Company network → Switch



Connection from the backside of the panel  
to it's front



## 6.11.3. Switch → Panel



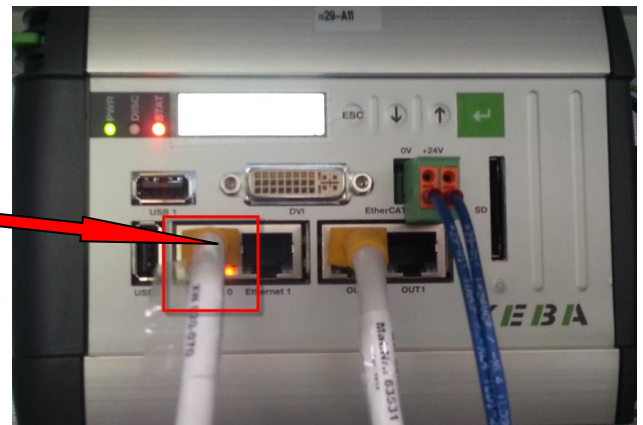
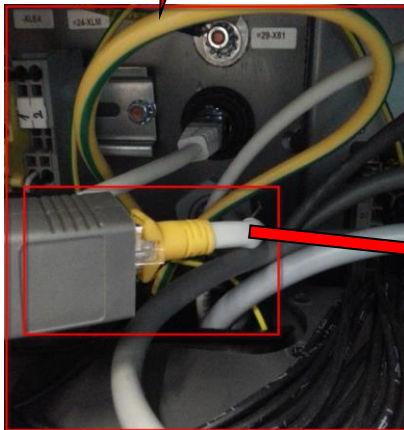
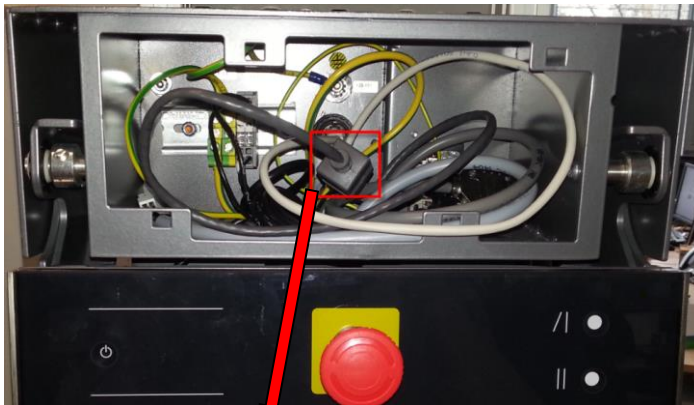


Switch → IPC



#### 6.11.4. Panel → Cube

There is an extra wire because this connection is mandatory for the machine to work.



## 6.11.5. Enter static IP address CC300

The ENGEL CC300 is pre-configured ex works to automatically obtain its IP address from a DHCP server when connecting to the customer network. Since, in case of a direct connection between your notebook/PC and ENGEL CC300, no DHCP server for automatic IP address assignment is available, the IP address must be assigned manually.

The following points describe the procedure for assigning a fixed (static) IP address via the "Maintenance Console".

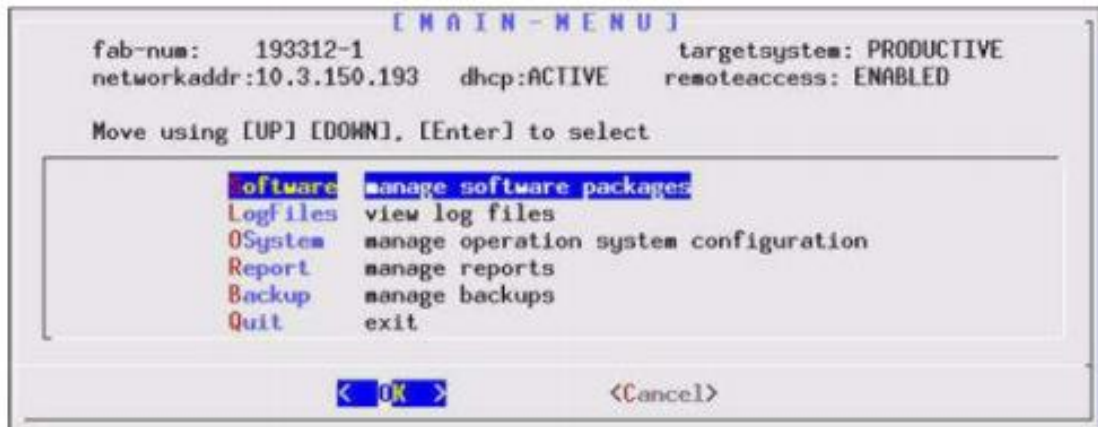
### Information

The IP address assigned to the ENGEL CC300 must be in the same network segment as that of the laptop/PC. This means that the IP address may differ only in the last address segment. In this example, the 10.2.150.100 address was selected for notebook/PC and the 10.2.150.200 address for ENGEL CC300.

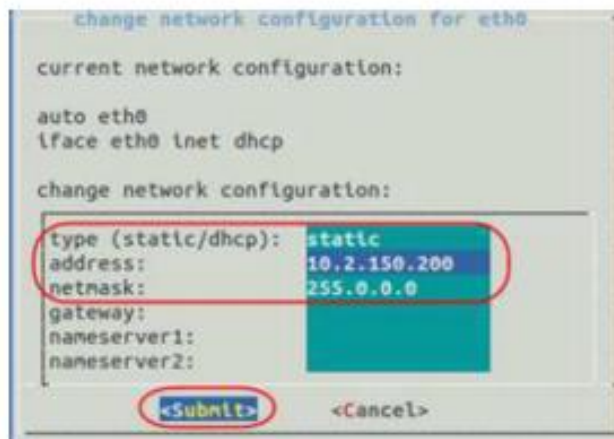
### Change to "Maintenance Console" :

- Tasks
- System settings 
- System administration 

■ Display maintenance console



- OSystem - OK
- Advanced - OK
- CNetConfig - OK
- selecteth0...dhcp - OK
- changetype (static/dhcp) to static
- changeaddress to 10.2.150.200 (for example)
- changenetmask to 255.0.0.0
- submit



- 'take over network configuration?' - Yes

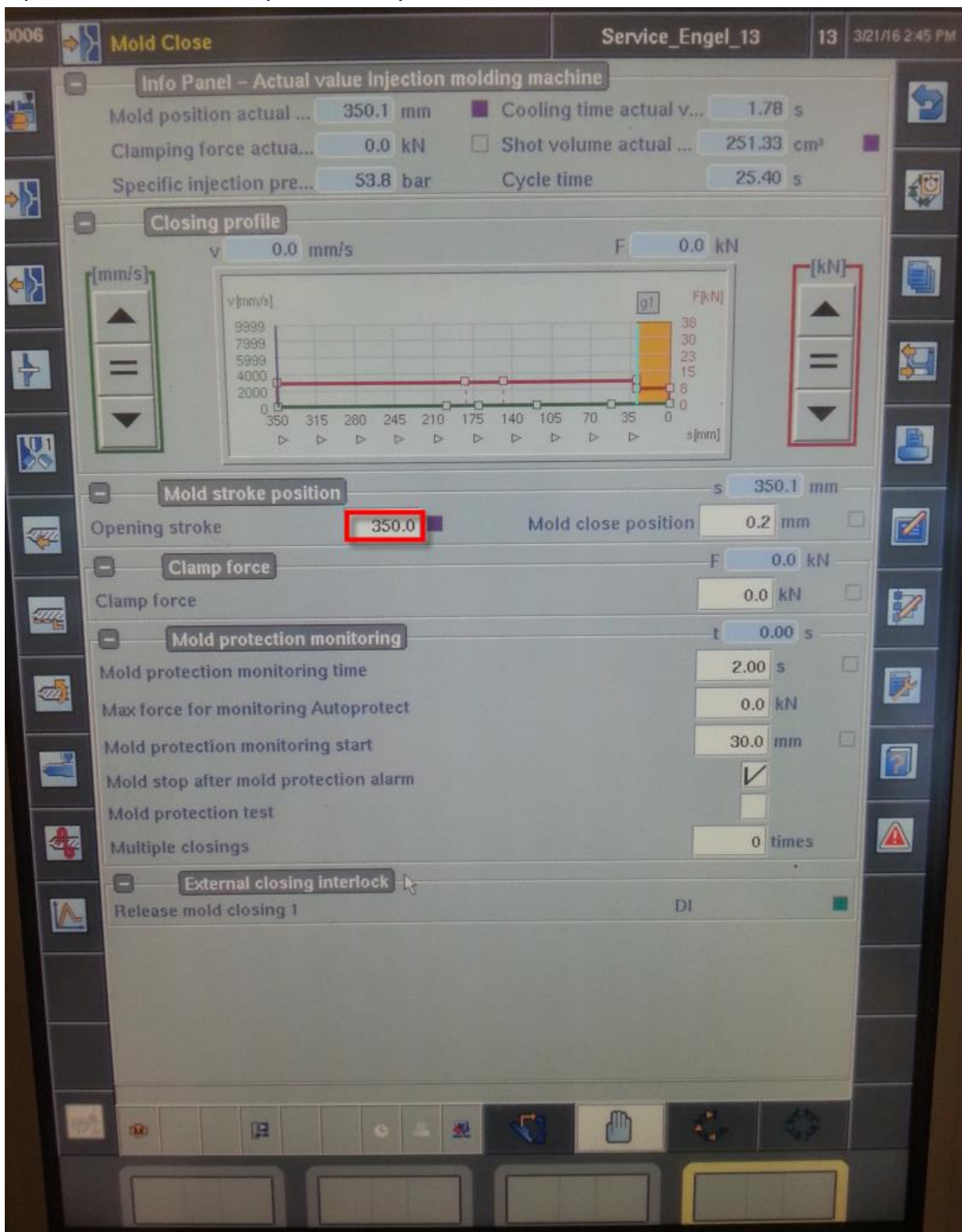


## 6.12. Look up machine parameters on CC200 and CC300

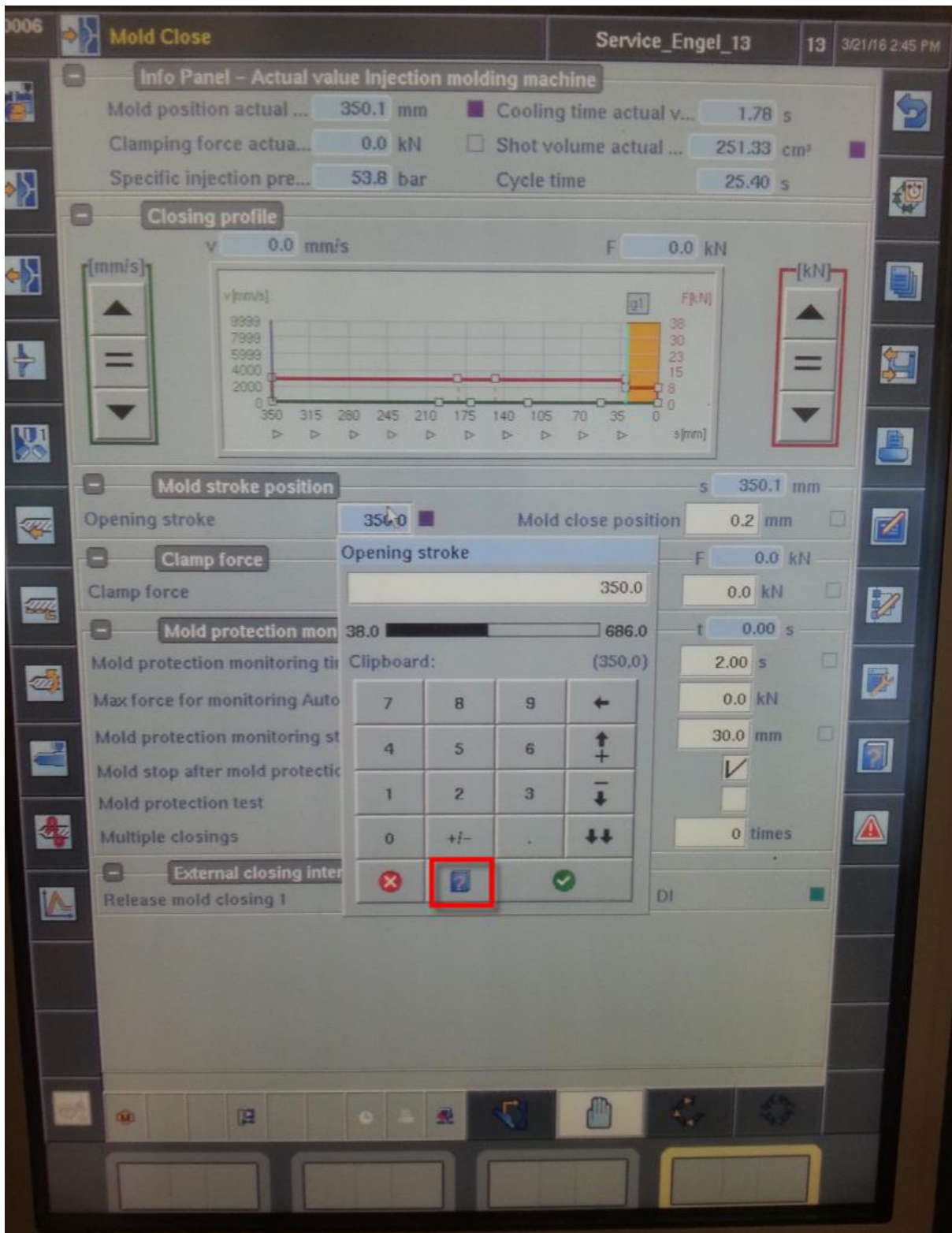
This is a guideline which helps you to find machine parameters on CC200 and CC300. Please consider that you will need an Access Card with Level 13 for this actions.

### 6.12.1. Search CC200 parameters:

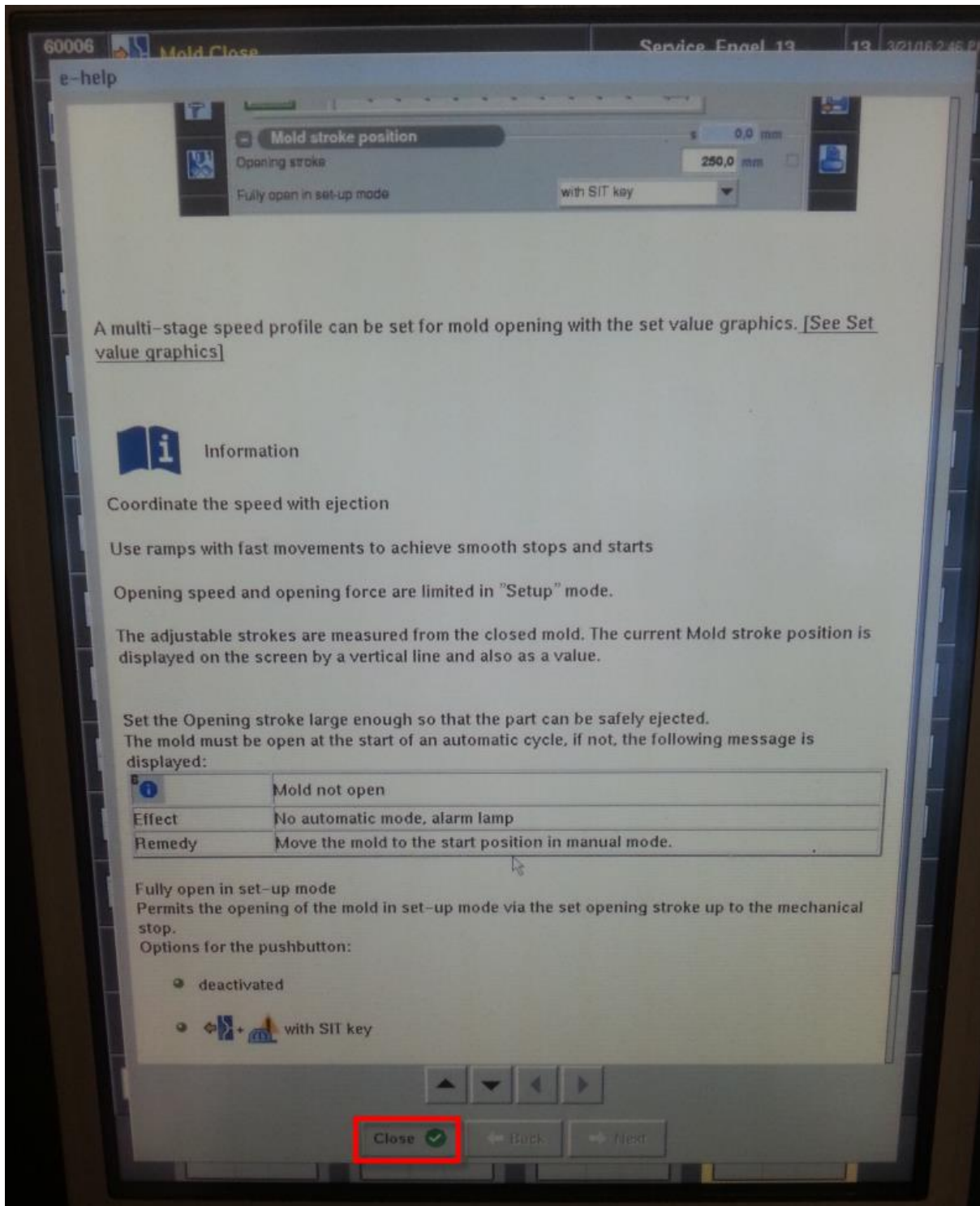
Open the field for the parameter you want to know



Click on the help dialog

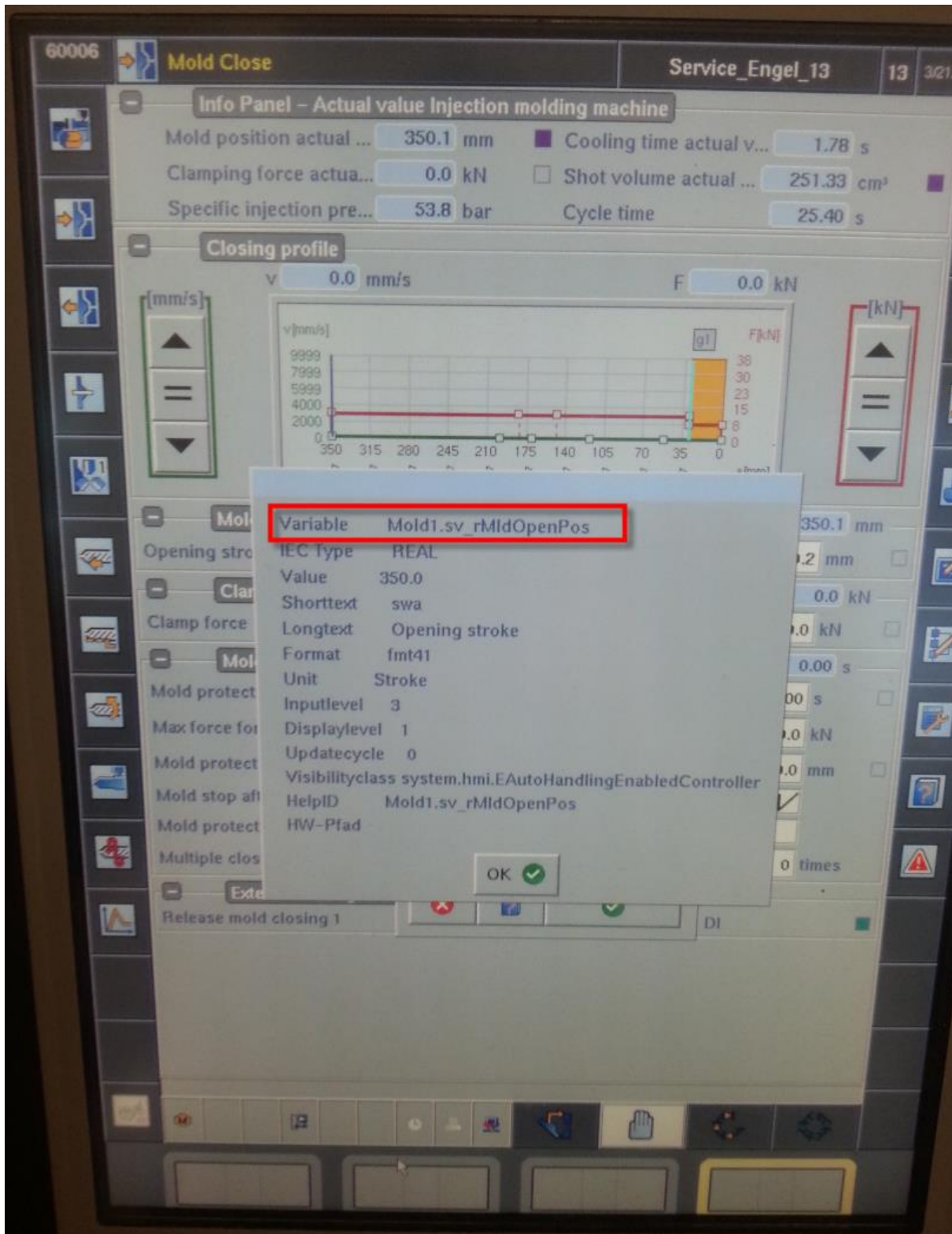


Close the help once it opened





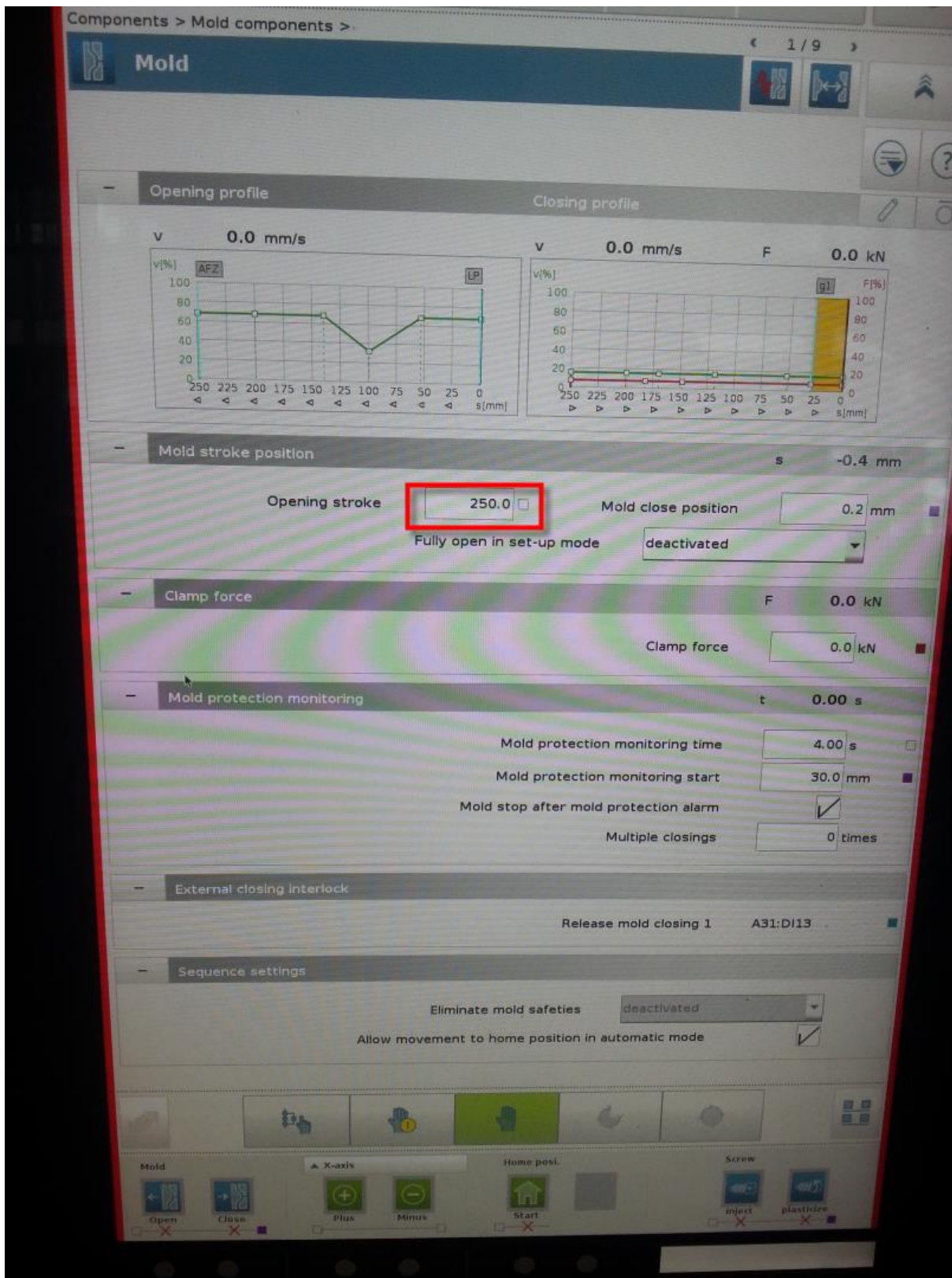
Now you see a dialog with all the parameter details including the Variable name. You can use this parameter name in your euromap63 interface.



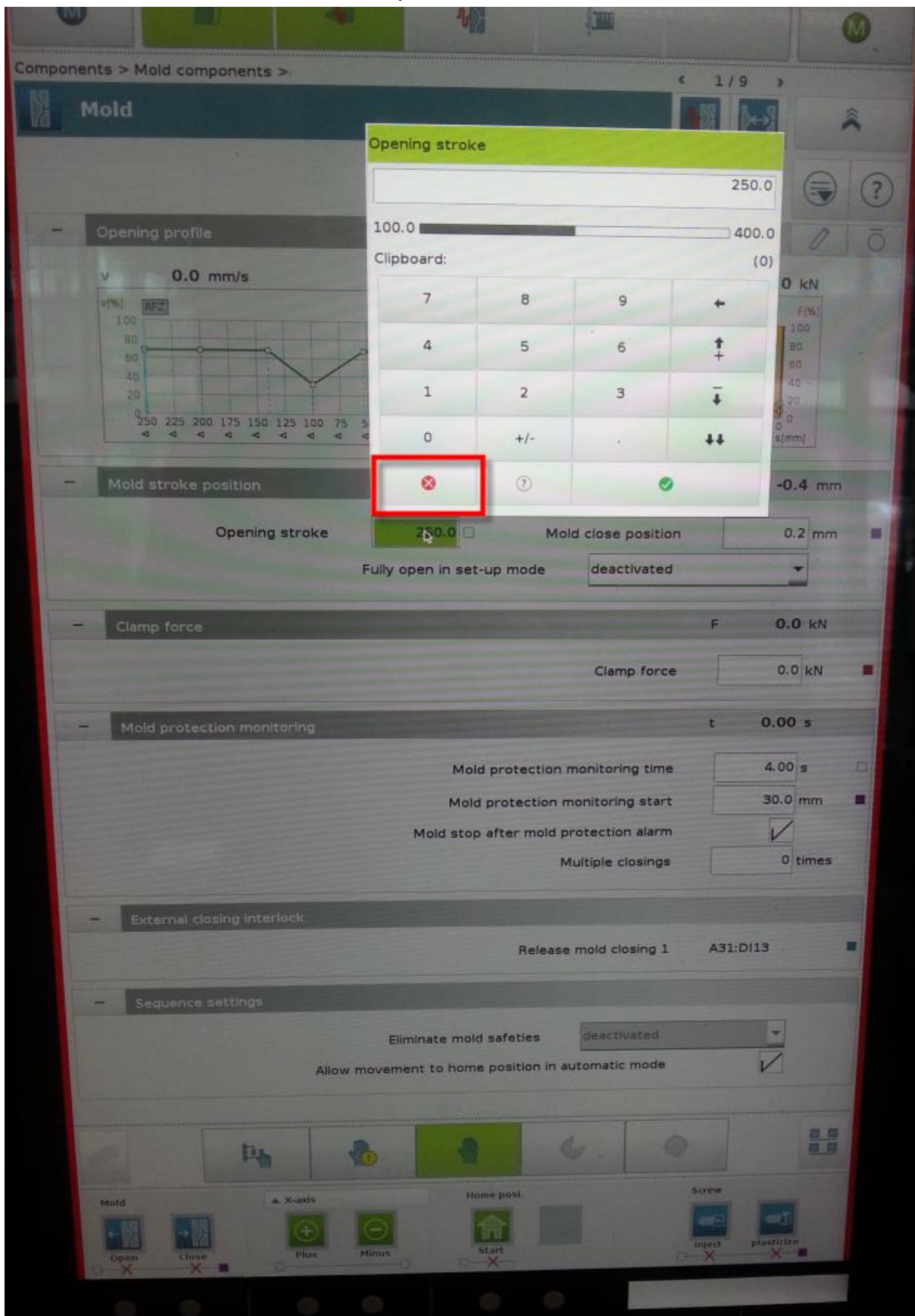


### 6.12.2. Search CC300 parameters:

Open the field for the parameter you want to know.

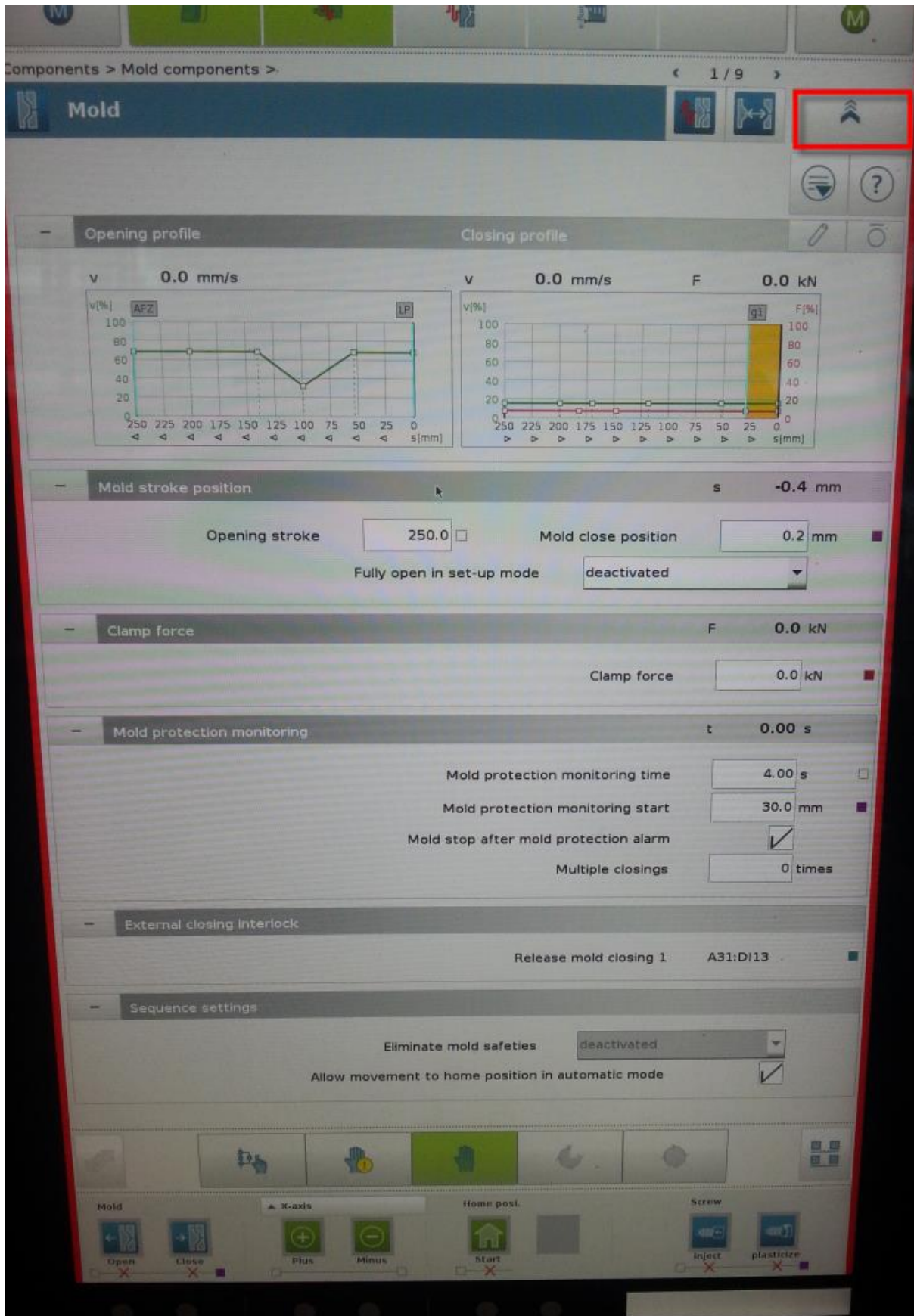


You can close the window once it popped up.  
The Parameter details are in the clipboard now.

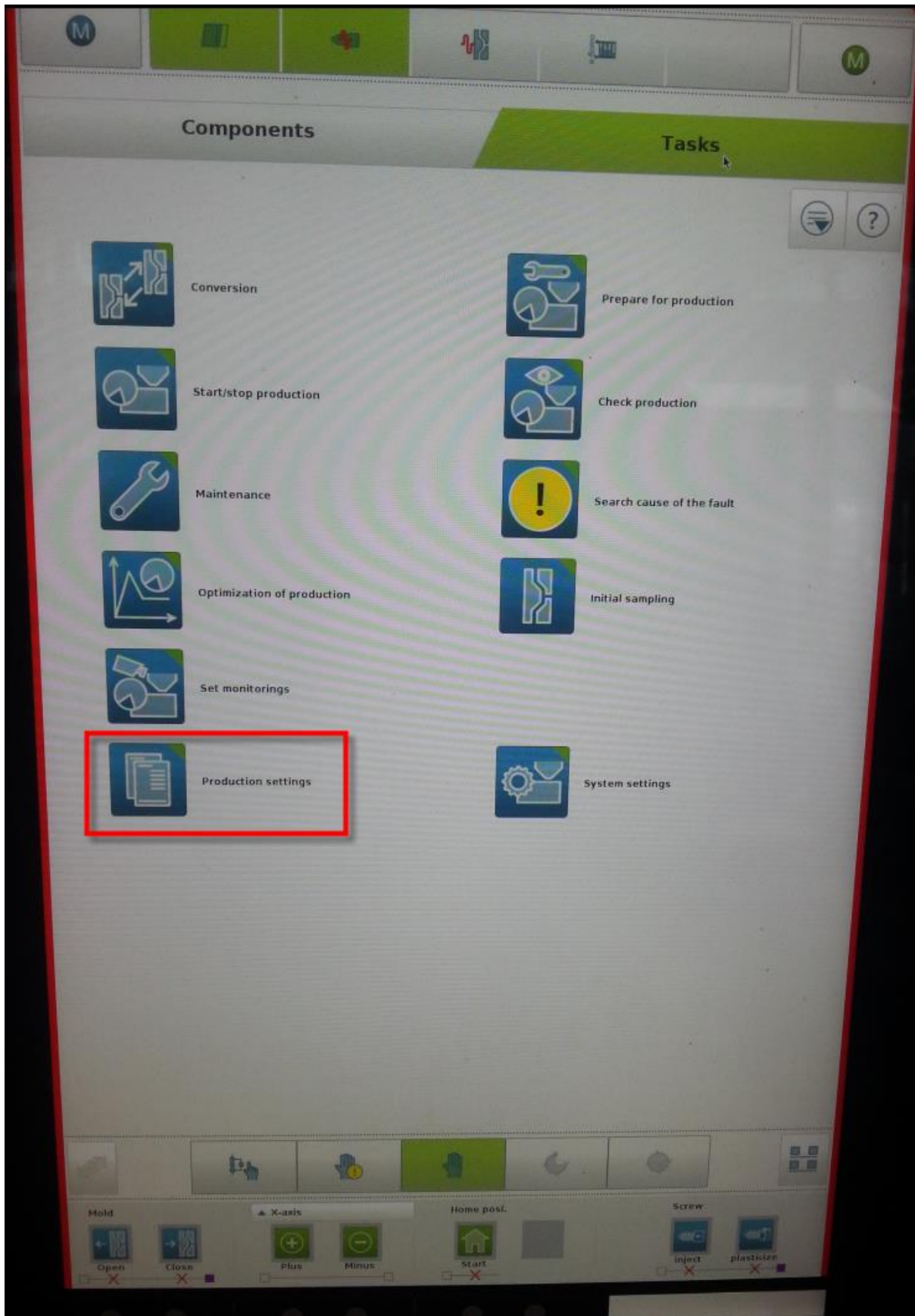




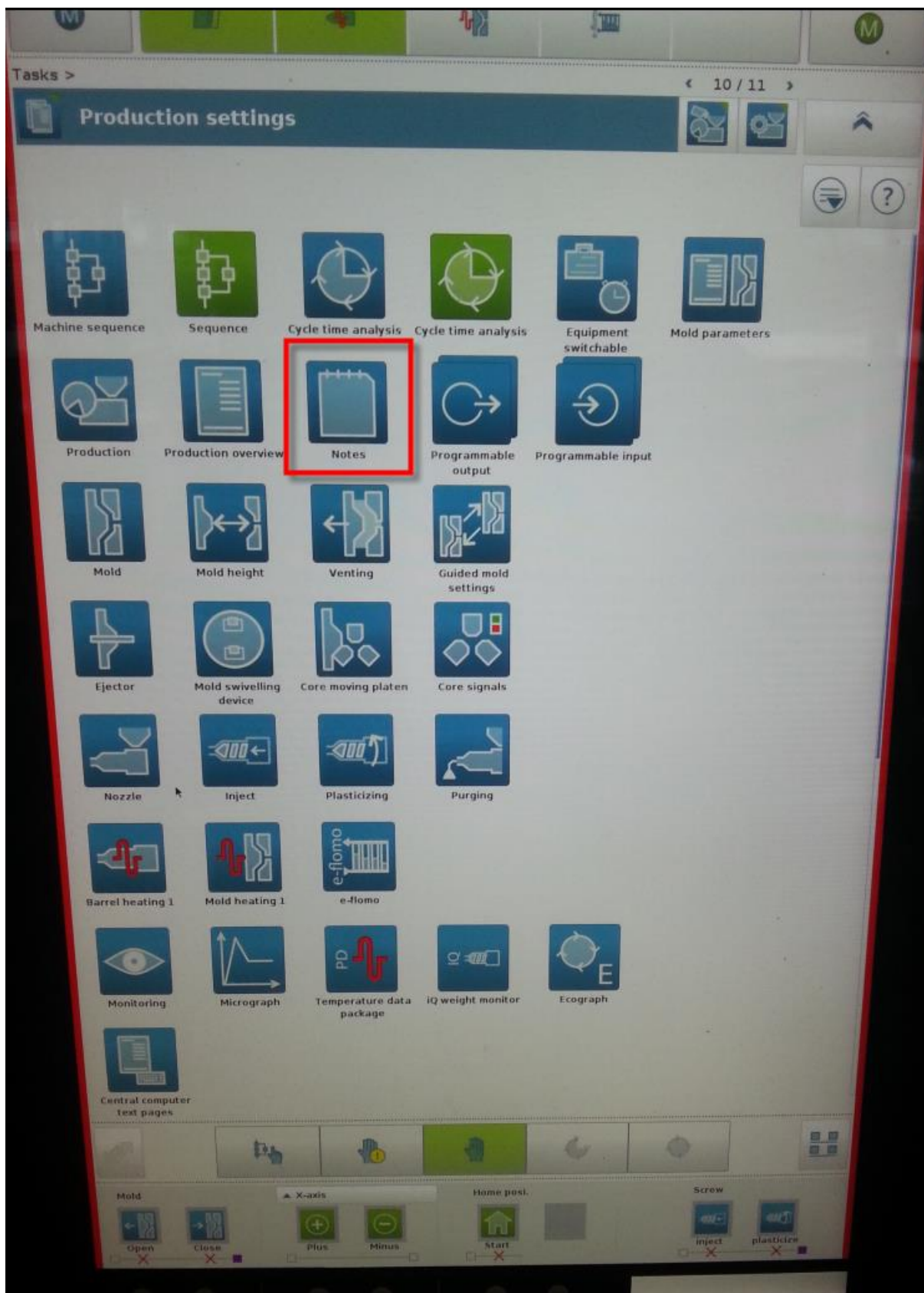
Navigate to the Notepad



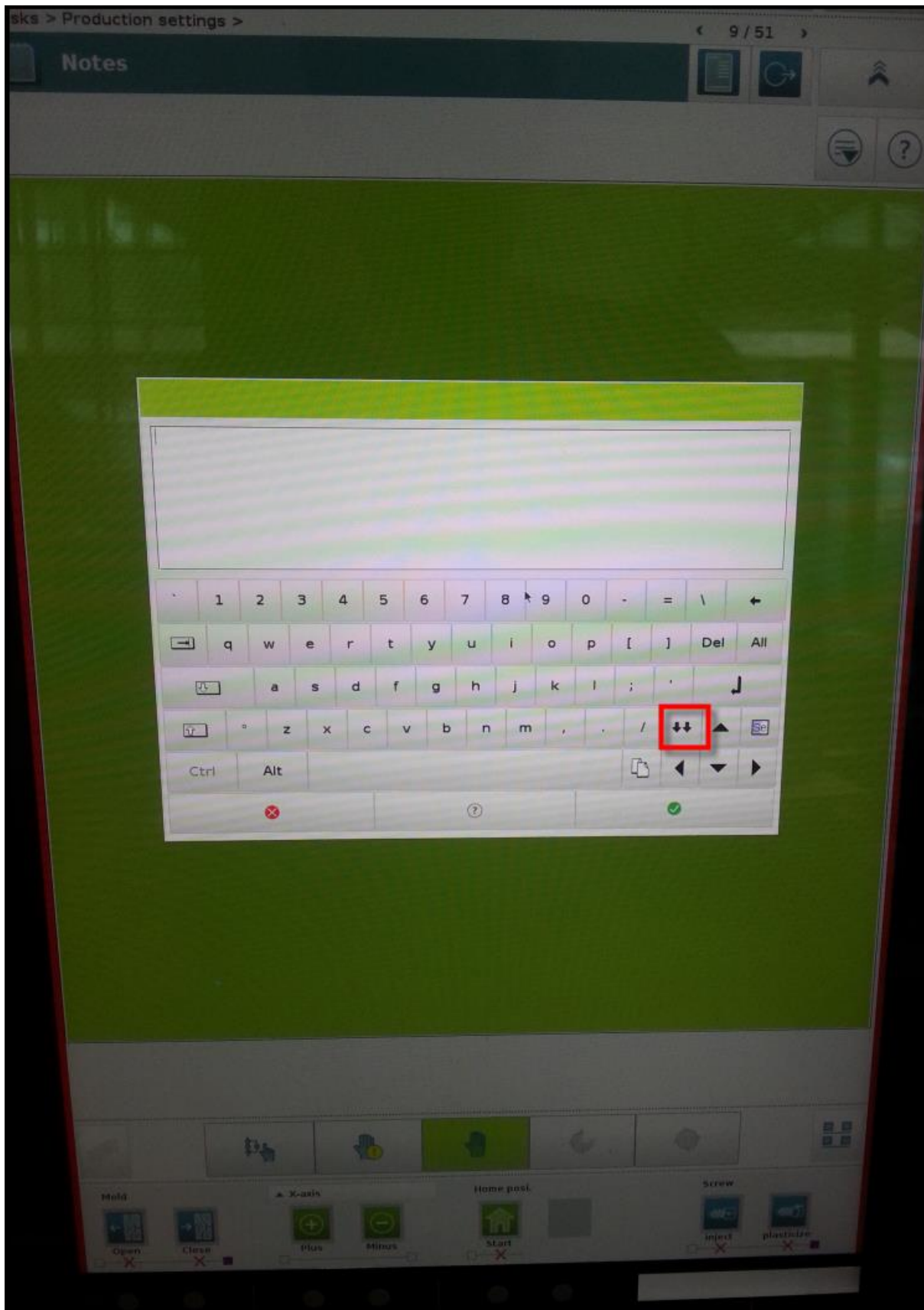




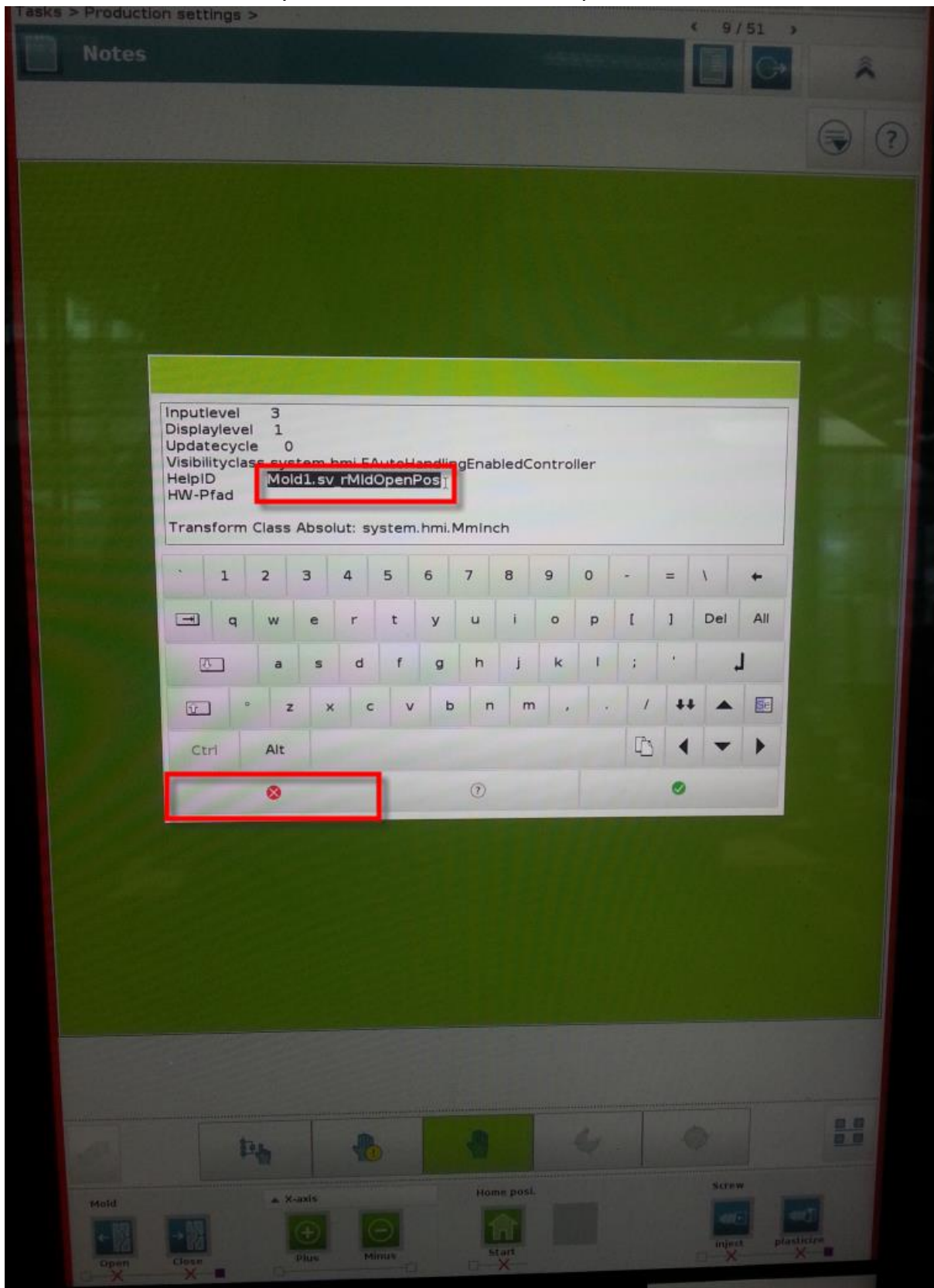




You can paste the parameter details here:

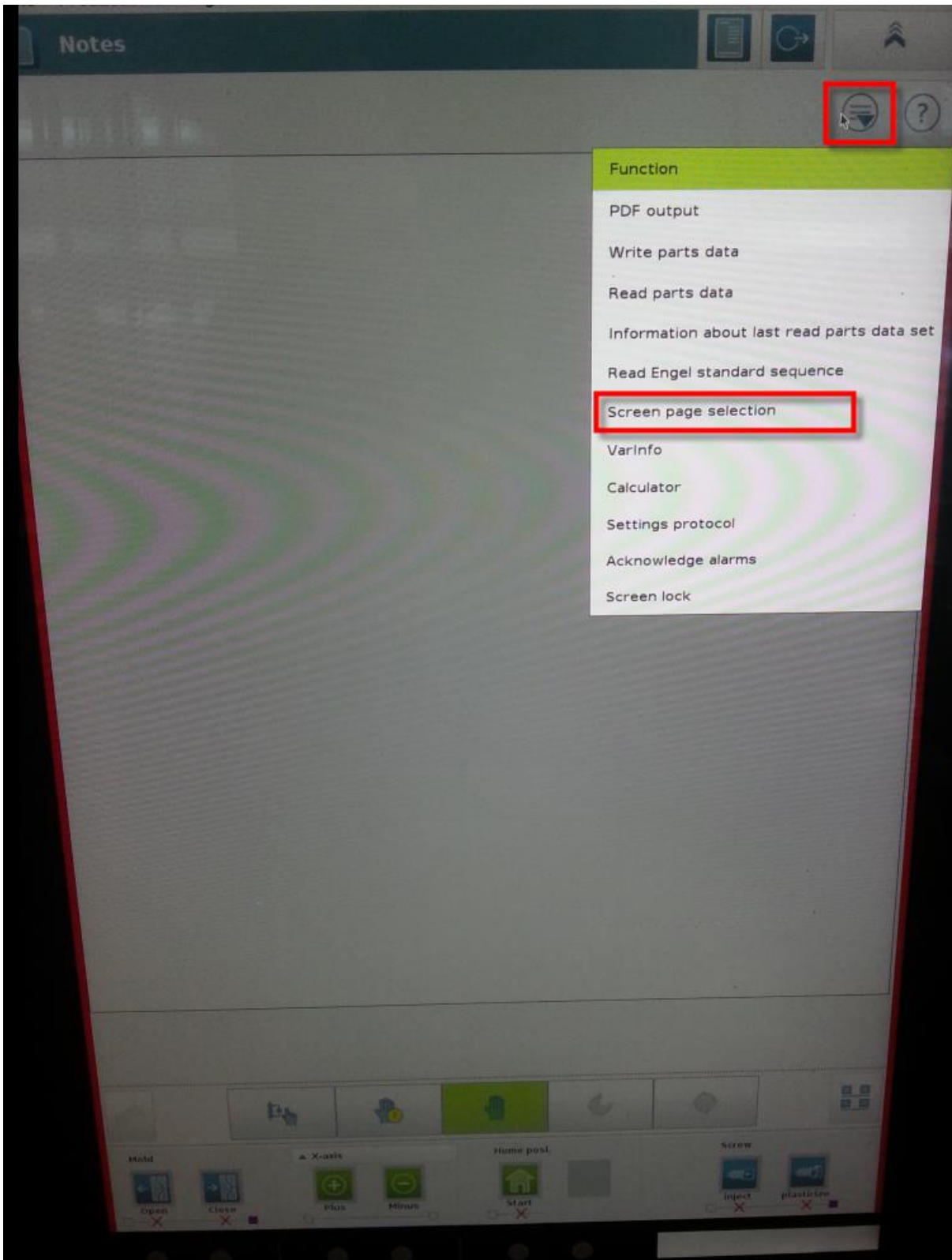


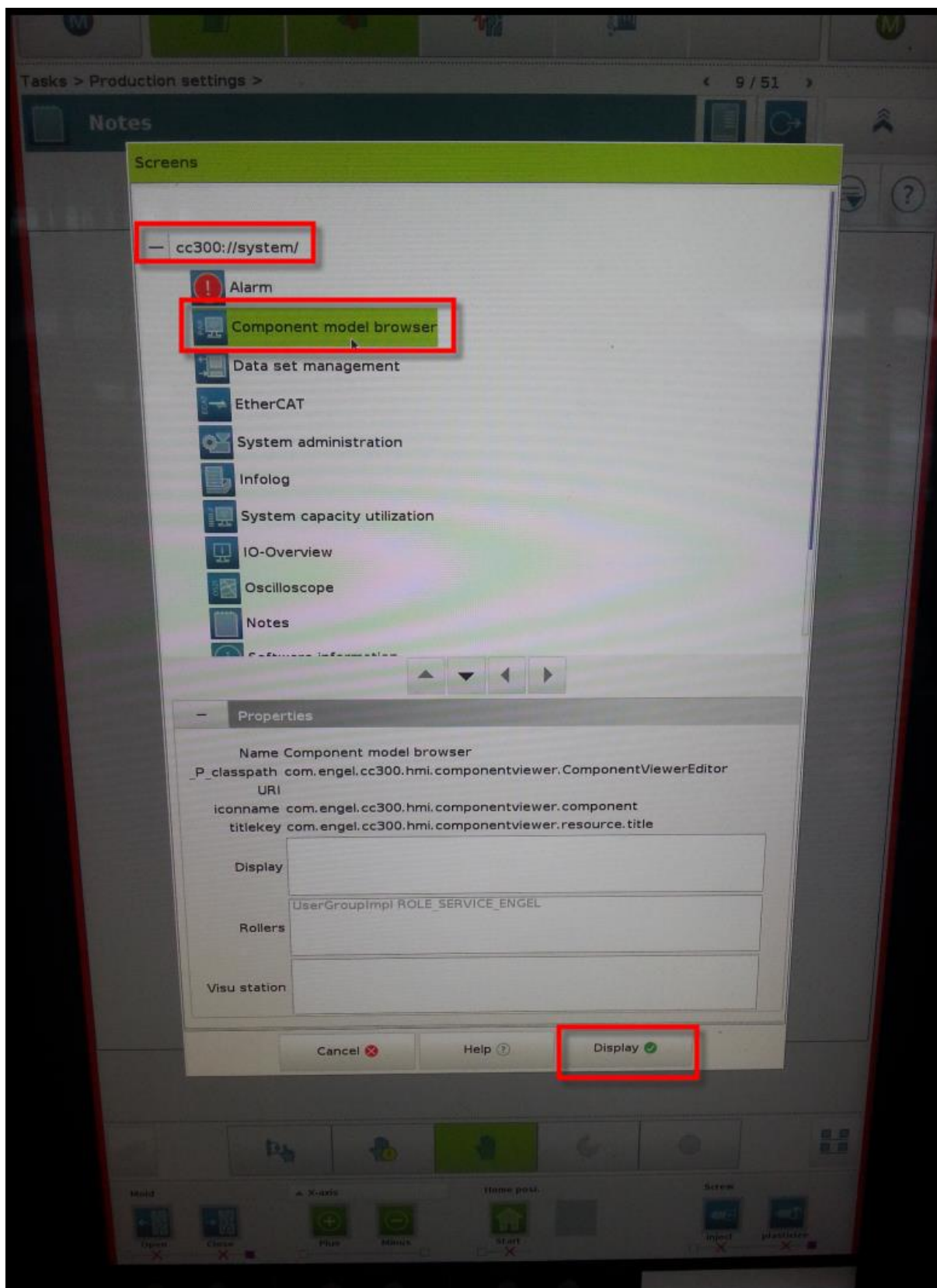
The **helpID** is the text we will need later to find the appropriate parameter. Normally it is automatically in the clipboard but there are some versions where you have to enter it manually so take a note of the helpID now.



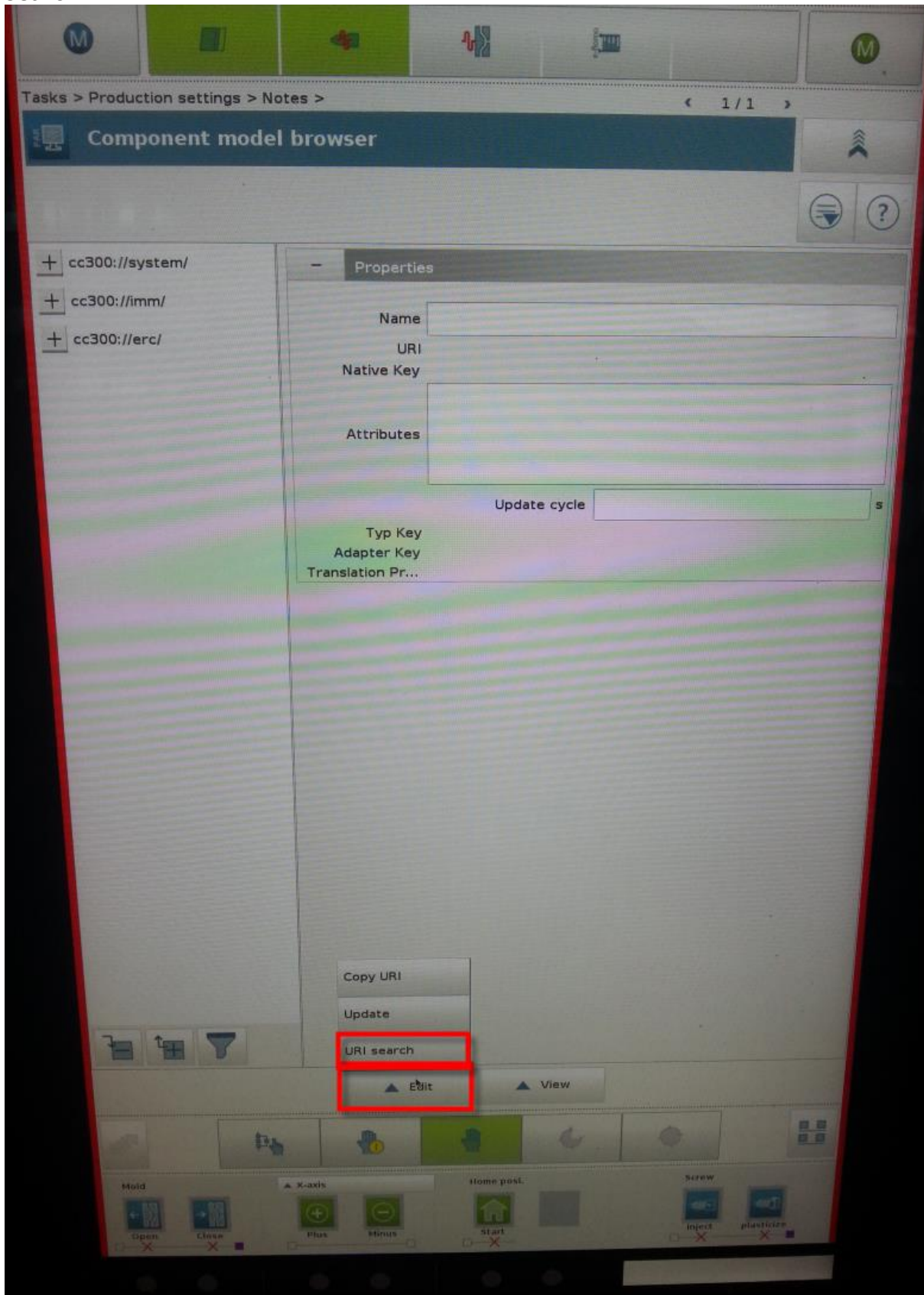


The next step is to open the component model browser:



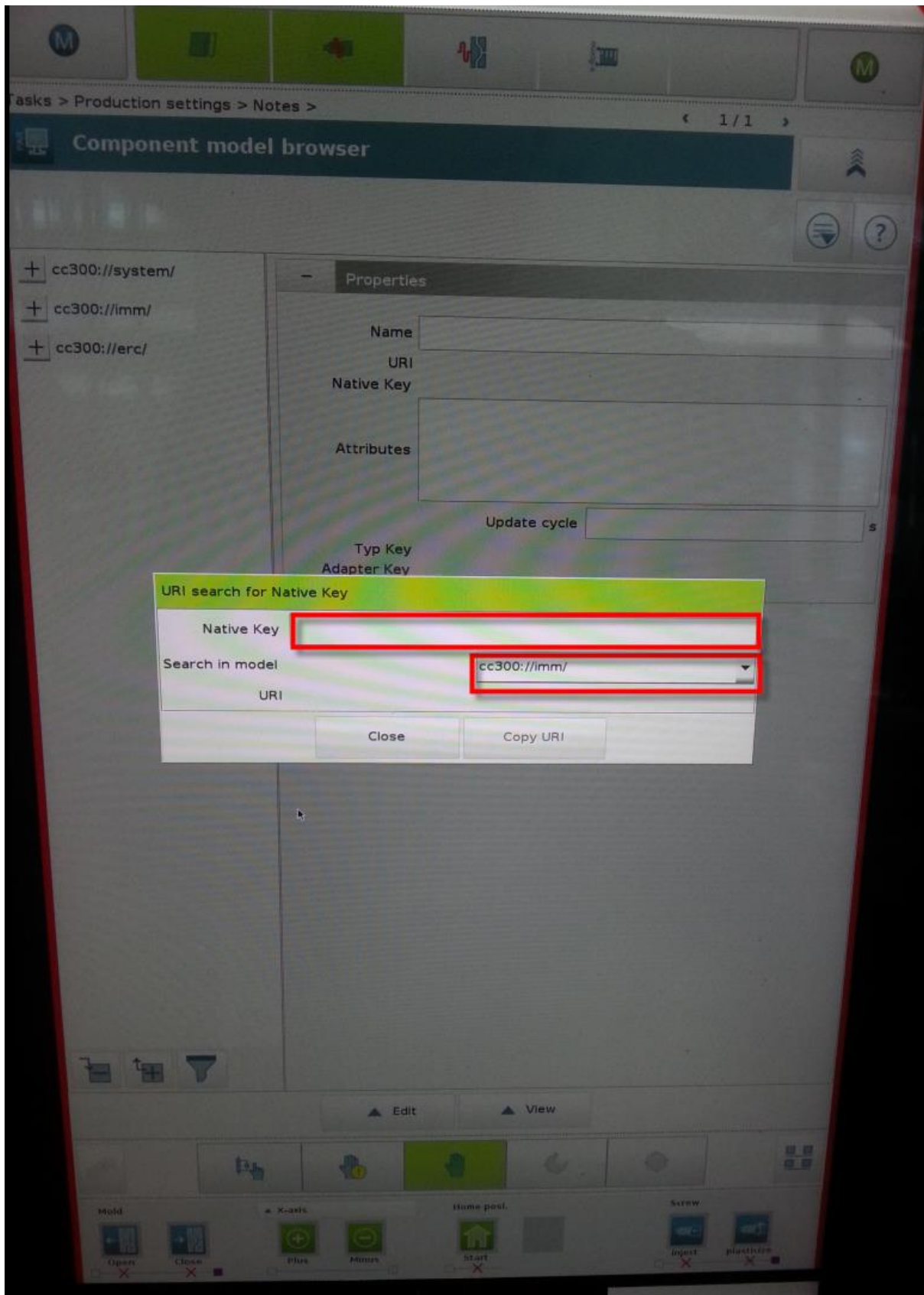


Now inside the component model browser, open the Dialog for the URI search.

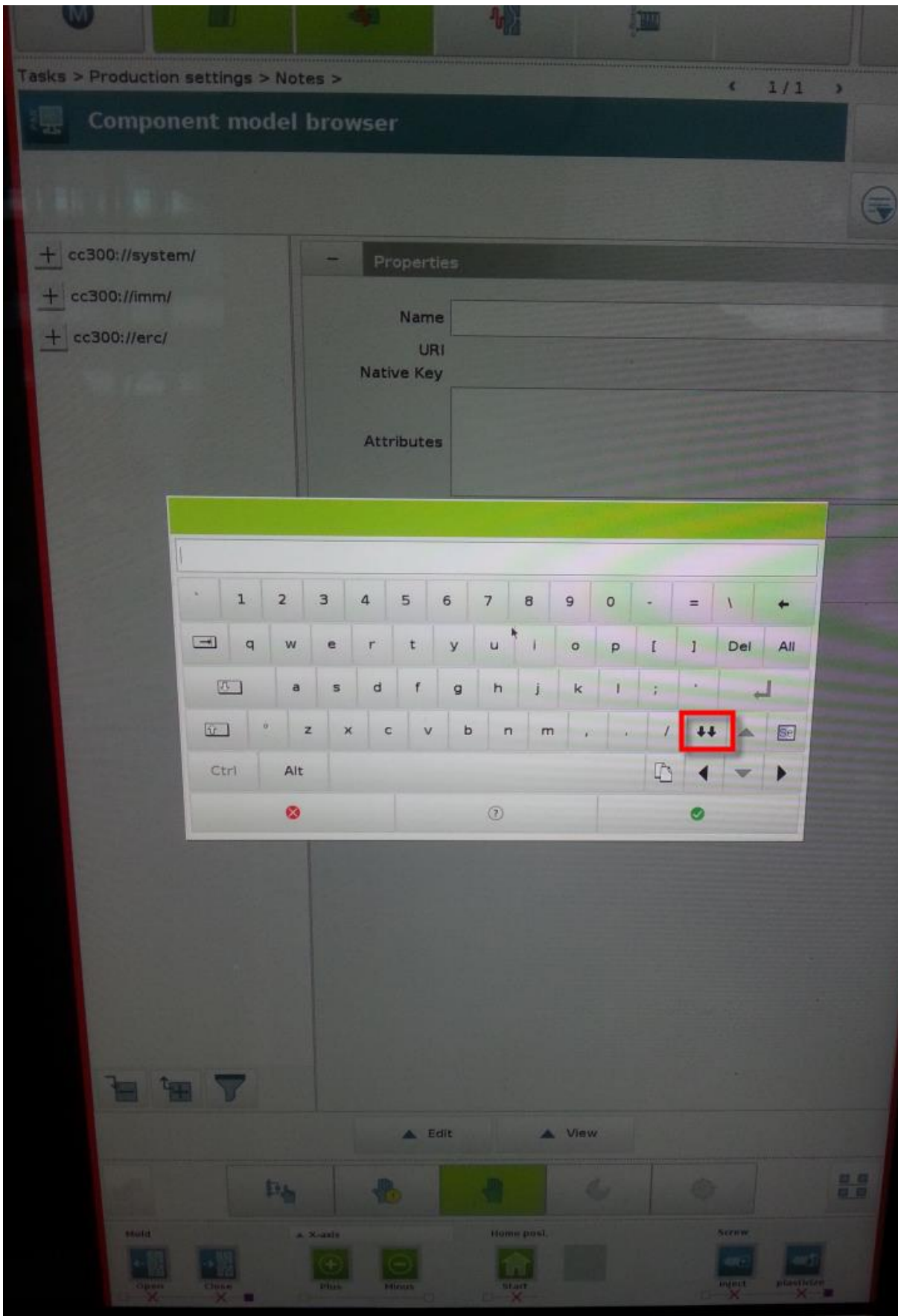


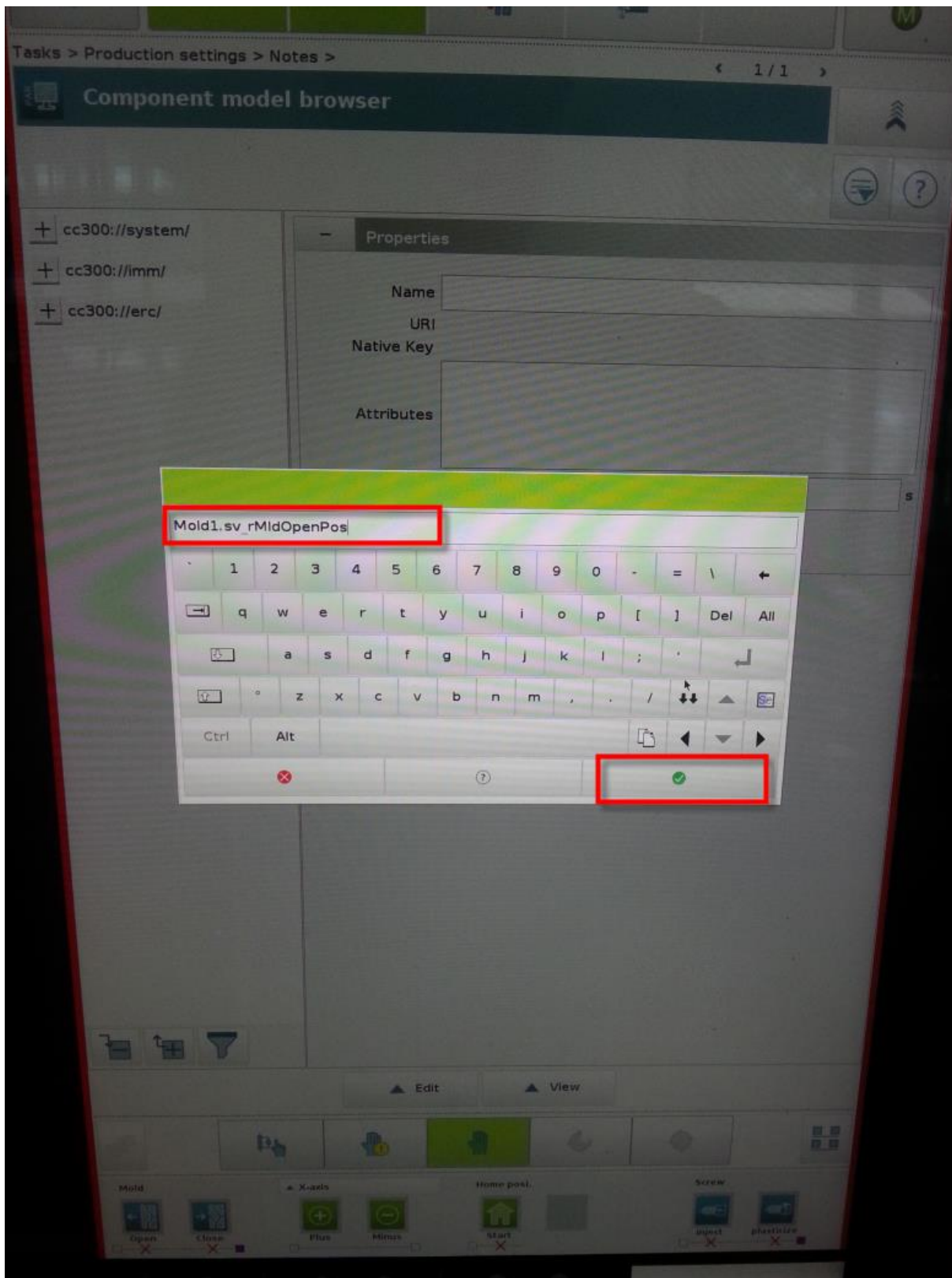


Change the search model to cc300://imm/ and click in the field for the Native key.



Now enter the helpID here. Either you can paste it or you have to write it manually.







Now you see the CC300 parameter which you can use in your euromap63 interface.

