

# Setup of Profinet for WCU

## Installation

1. When the control is delivered it has no IP-address – the address will be given via DHCP.
2. You can edit the Node address on the Profinet module, either with a programme the PLC provider has, or with a free programme offered on the ANYBUS website. The programme is called "IPconfig-Utility for module TCP/IP Configuration".

Find it here: <https://www.anybus.com/support/file-doc-downloads/anybus-support-tools?orderCode=tools>

### Anybus Support Tools

#### ORDER CODE: TOOLS

Firmware Update Tools Tools needed for upgrading firmware in Anybus products. Using the firmware update tools are always made on your own risk and HMS will not take any liability...

[Product page](#)



File	Version	Size	Download
<b>SOFTWARE</b>			
Firmware Download Tp	2.16.1.1	8.62 MB	Download
Anybus Transport Provider	3.6.1.2	6.77 MB	Download
Anybus Firmware Manager II	1.7.1.1	9.29 MB	Download
IPconfig - Utility for module TCP/IP Configuration	3.1.1.2	1008.64 KB	Download

## File

1. Get the file to CompactCom 40
2. Use file: GSDML-V2.33-Linak-WCU-BASIC-20190411.xml

IMPORTANT: GSDML is developed for Tiaportal not STEP 7, if installed on an old step 7 system, please contact Siemens support.

The file can be downloaded on [linak3p.com](http://linak3p.com).

More information can be found here: <https://www.anybus.com/products/embedded-index/anybus-compactcom-modules/m40-details/anybus-compactcom-m40-module---profinet-irt>

## Profinet module

AB6605

## Setup of data

1. Communication PC to Anybus-Compactcom
  - a. Instance ID = 150
  - b. Data Size = 12 bit (map 6 output word)
  - c. Packet rate 100ms
  - d. Transport type = Point to point
  - e. Data size type = Fixed Size
  - f. Priority = Scheduled
  
2. Communication Anybus-Compactcom to PC
  - a. Instance ID = 100
  - b. Data Size = 12 bit (map 6 input word)
  - c. Packet rate 100ms
  - d. Transport type = Point to point
  - e. Data size type = Fixed Size
  - f. Priority = Scheduled

## Parameter list

Be aware that the bit order can be reversed, depending on the application.

The user has three different commands to control the WCU-BUS control via the Bus module. It is possible to select two different parameter types:

- Mode 0, the parameters are limited.
- Mode 1, all parameters are available.

The memory area is read and written every second.

Command is written in parameter 2

- 0x54 – runs to position
- 0x5A – read parameter (can only be used in mode 1)
- 0x60 – write to parameter (area 15-66), only mode 1
- 0x90 – command reads parameter 6, limited parameter or full pack

Write the required position before start command is given.

Mode 0: Limited parameter

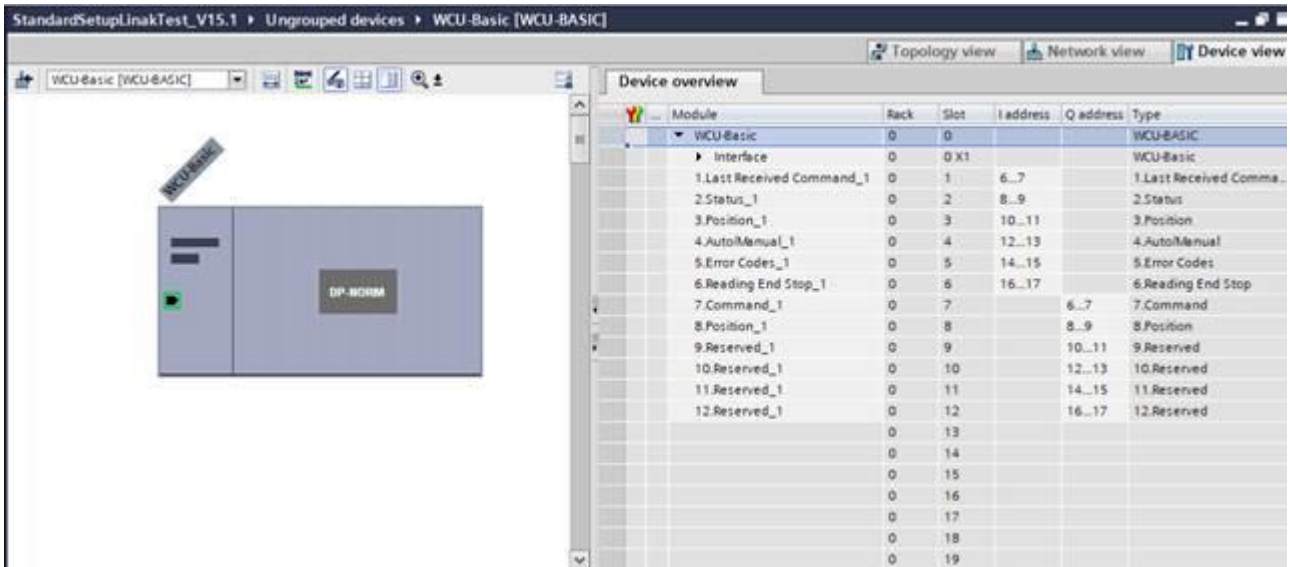
Write word area

Word	Byte	Description
1	1	Command = 54 drive to target (value written in word HEX), 5A reads status value, all parameters can be changed, cannot write until after reading, dangerous to play with. 60 = write value in parameter.
	2	
2	3	Position 0 ... 100
	4	
3	5	Mode 0 = limited parameter, 1 = all parameters.
	6	
4	7	Not in use.
	8	
5	9	Not in use.
	10	
6	11	Not in use.
	12	

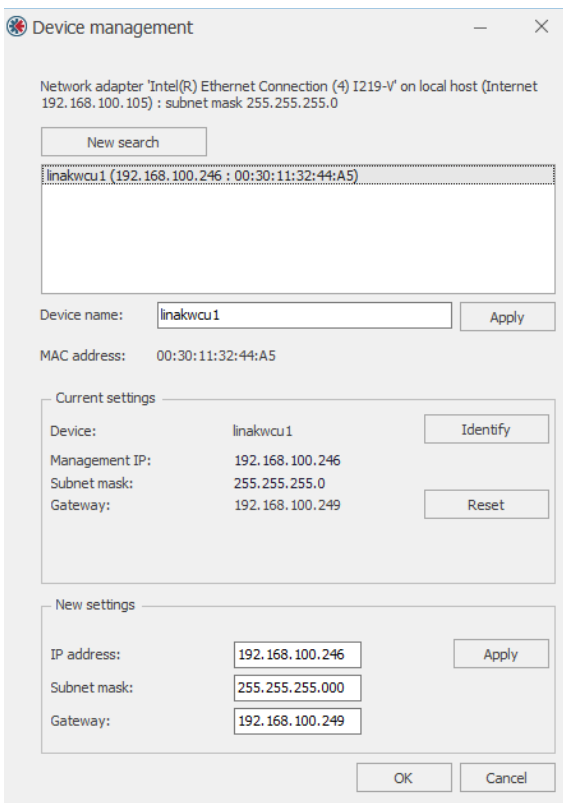
Read word area (input)

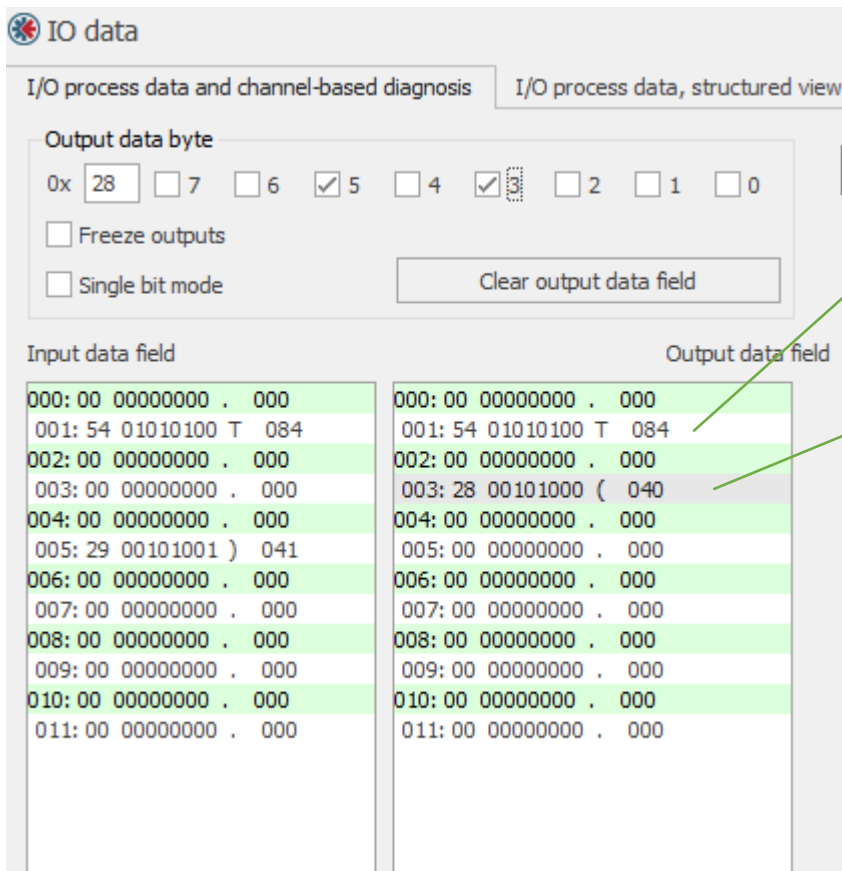
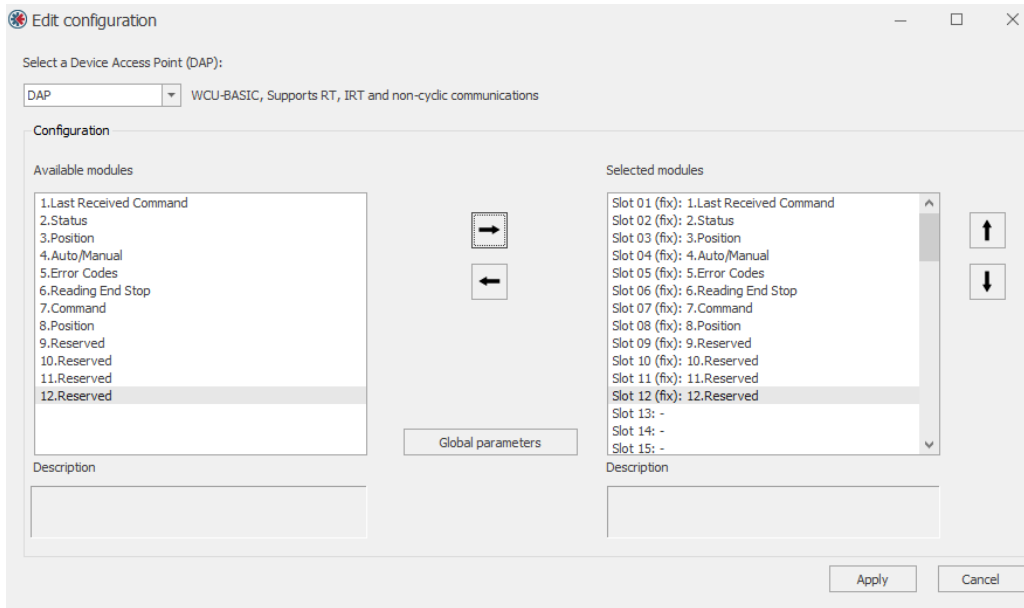
Word	Byte	Description
1	1	Last received command
	2	
2	3	Status: Actuator run, 1 FW, 2 BW, 0 stop
	4	
3	5	Position 0 ... 100
	6	
4	7	Auto 0 / Manual 1
	8	
5	9	Error codes: 1 = overcurrent 2 = fault in power supply 3 = battery failure 4 = timeout 5 = overheating 6 = overvoltage 7 = error sp. See section troubleshooting.
	10	
6	11	Reading end stop: 0 = no limit 1 = atc. back 2 = act. forward
	12	

## Example Setup Profinet Siemens PLC



## Example Anybus Profinet Simulator





Start command

Position command