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#### 1. Introduction

The purpose of this document is to describe how to use the ABB IP configuration tool/plugin. This tool/plugin can be used to scan Ethernet network and find configured and unconfigured Ethernet adapter modules (FENA-x1/FPNO-21/FMBT-21/FBIP-21/FEIP-21 and AC500 PLC) present in the network. It also allows to write or modify the IP address configuration of the Ethernet adapter modules found.

### 2. Installation (2 options)

## 2.2 Integrated in Automation Builder software

No separate installation is needed. After opening of Automation Builder software, it can be launched and used from the menu, select *Tools* >>*IP-Configuration* 

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Automation Builder 2.2 - Premium         Ele Edit View Project Online Debug Tools W         Pair Control         Pair Contro	indow <u>H</u> elp ▶ ■   ➡ ●	[EC6 1850					- 0	× ₹
Scan	AB	B Net con	fig protocol (e.g. fi amic Configuration	or AC500 PLC, ( Protocol (DCP)	CI52x-MODTCP de	vices and ABB Drives)		
(MAC) address 00-1C-01-02-60-27 00-1C-01-0A-C7-F/	Device FENA-21 A FPNO-21	Port	Serial number 06110087 08200016	Device ID 0x111 0x111	IP Address 0.0.0.0 192.168.0.20	Config. IP Address 0.0.0.0 192.168.0.20	Device Type Device Device	
Constraints of the second	2 responses		Last build: 📀 0 🤅	) 0 Precomp	pile: 🗸	Project user: (n	obody)	<b>(</b> )

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2.3 Standalone installation from Automation Builder installer

Under <u>www.abb.com/automationbuilder</u> select download Automation Builder option. After downloading the Automation Builder installer exe file, launch it to start the installation manager (installation requires internet access as installation data is downloaded during setup). Installation manager provides features for installation of Automation Builder software, but also for some additional tools, as IP configuration tool.

From the start page, Under Advanced Installer options, select *Install Additional Tools* >> *IP Configuration Tool* to be installed and click Download and install.



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Data download and installation start, when the complete installation is realized click on Finish to close the wizard.



3. IP Configuration Tool use

First, establish Ethernet connection between your PC and the Drive's Ethernet network. <u>Note that</u>: sometimes need to check the windows or your third partly firewall in order to allow IP Configuration tool to receive the responses from the IPConfig scan.

### 3.2 Open the IP Configuration Tool

Launch IP Configuration Tool from Automation Builder if you use the integrated option, see paragraph 2.2 or launch it from the shortcut automatically created on the desktop.



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🕮 IP-Configuratio	on							·	×
File Help Scan		ABE	Net config protocol inet Dynamic Config	(e.g. for AC500	) PLC, CI52x-MOI (DCP)	DTCP devices and ABB D	hives) erCAT		
(MAC) address	Device	Port	Serial number	Device ID	IP Address	Config. IP Address	Device Type		

#### 3.3 Scanning Ethernet network

To detect drives Ethernet adapter modules, select the option ABB Net config protocol and then Click on Scan button to launch the devices search...

🗰 IP-Configuration							×
File Help Scan	ABB Net config protocol ( Profinet Dynamic Configur	e.g. for AC500 ation Protocol	PLC, CI52x-MOI (DCP)	DTCP devices and ABB D	hives) erCAT		
(MAC) address Device	Start scanning for devices	Device ID	IP Address	Config. IP Address	Device Type		
Sv.							

The drives Ethernet adapter modules present in the network appear on the results list. The configured and unconfigured adapter modules are shown.

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3.4 Rewriting the IP configuration of Ethernet adapter modules Possible to configure new IP settings or just modify existing IP settings.

3.4.1 After scanning the Ethernet network and find Ethernet adapter modules, on the results list Click to select the adapter module whose IP address configuration need to be modified.

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File Help										
Scan		ABE	B Net conf finet Dyna	ig protocol (e.g. for mic Configuration Pr	AC500 PLC, CIS rotocol (DCP)	52x-MODTCP devic	es and ABB Drives)			
(MAC) address	[	)evice	Port	Serial number	Device ID	IP Address	Config. IP Address	Device Type		
00-1C-01-02-60-	27 F	ENA-21		06110087	0x111	0.0.0.0	0.0.0.0	Device		
		Period and a second second				and the local data and the second second	100 100 0 00			
Scan finished, receiv	++A F ed 2 respo <b>I=061</b>	PNO-21	, ID=0	08200016 (x1(31)	0x111	192.168.0.20	192.168.0.20	Device	J	
Scan finished, receiv FENA-21 [SN New configuration DHCP	ed 2 respo I=061	PNO-21	, ID=0	08200016 x1[3]	0x111	192.168.0.20	192.168.0.20	Device	J	
Can finished, receiv  Can finished, receiv  Can finished, receiv  Can finished, receiv  Can figuration  DHCP  address	ed 2 respo I=061	PNO-21	, ID=0	08200016 ×1(31)	0x111	192.168.0.20	Blink-timeout (s):		J	
Scan finished, receiv FENA-21 [SN New configuration DHCP P address	ed 2 respo I=061	PNO-21 mses 10087 0.	, ID=0	08200016 (x 1(3 1))	0x111	192.168.0.20	Blink-timeout (s):	10 1	]	
Can finished, receiv Scan finished, receiv FENA-21 [SN Vew configuration DHCP P address Subnet mask Gtd. gateway	ed 2 respondent for the format of the format oo the format oo the format oo the format	PNO-21 pnses 10087 0 . 0 . 0 .	, ID=0	08200016 x 1(3 1) 0 0 Send Co	0x111	192.168.0.20	Blink-timeout (s): Blink-interval (s): Blink	10 1	J 	

3.4.2 After selecting adapter module, its current IP settings are displayed below the list and can be edited for modification.

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3.4.3 IP settings can be modified now, IP address, Subnet mask, Gateway... DHCP could be selected or not, without selection means that the adapter module uses a static IP address

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Scan	AB	B Net cont finet Dyna	fig protocol (e.g. for mic Configuration P	AC500 PLC, CI rotocol (DCP)	52x-MODTCP devic	ces and ABB Drives)				
(MAC) address	Device	Port	Serial number	Device ID	IP Address	Config. IP Address	Device Type			
00-1C-01-02-60-2	7 FENA-21		06110087	0x111	0.0.0.0	0.0.0.0	Device			
00.10.01.04.07	A FPNO-21		08200016	0.111	192 169 0 20	192 168 0 20	Device			
Scan finished, receive	d 2 responses =06110087	, ID=0	)x111]		132.100.0.20					
Scan finished, receive FENA-21 [SN New configuration	d 2 responses =06110087	', ID=0	bx111]		132.100.0.20					
Scan finished, receive FENA-21 [SN New configuration DHCP P address	d 2 responses =06110087	', ID=0	<b>bx111]</b>		132.100.0.20	Blink timeout (s):	10			
Scan finished, receive FENA-21 [SN New configuration DHCP P address	d 2 responses =06110087 192 . 168 . 2 <u>45</u> . 255 .	0 255	15	oficeuration	132.100.0.20	Blink-timeout (s):	10 1			
Scan finished, receive FENA-21 [SN New configuration DHCP P address	d 2 responses =06110087 192 . 168 . 2§5 . 255 . 0 . 0 .	0 . 255 . 0 .	00200010 00200010 00200010 00200010 00200010	nfiguration	132.100.0.20	Blink-timeout (s): Blink-interval (s): Blink				

# 3.4.4 Send the new configuration to the corresponding adapter module by clicking on Send Configuration button and wait for the result message.

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File Help									
Scan	AB	B Net con finet Dyna	ig protocol (e.g. for mic Configuration Pr	AC500 PLC, CIS rotocol (DCP)	52x-MODTCP devic	ces and ABB Drives)			
(MAC) address	Device	Port	Serial number	Device ID	IP Address	Config. IP Address	Device Type		
00-1C-01-02-60-2	27 FENA-21		06110087	0x111	0.0.0.0	0.0.00	Device		
00-1C-01-0A-C7-	FA FPNO-21		08200016	0x111	192.168.0.20	192.168.0.20	Device		
Vew configuration									
P address	100 100	0	15			Rlink timeout (s):	10		
P address	192 . 168 .	0.	15			Blink-timeout (s):	10		
P address	192 . 168 . 255 . 255 .	0. 255.	15	nfiguration		Blink-timeout (s): Blink-interval (s):	10 1		
Paddress	192 . 168 . 255 . 255 . 0 . 0 .	0. 255. 0.	15 0 Send Ca	nfiguration	ration to selected	Blink-timeout (s): Blink-interval (s):	10		

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3.4.5 A successful operation message should appear (text message + colour identification) under the list as well as the new configured IP address in column Config. IP Address.

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File Help									
Scan	ABE	B Net cont finet Dyna	ig protocol (e.g. for mic Configuration Pr	AC500 PLC, CI otocol (DCP)	52x-MODTCP devic	ces and ABB Drives)			
(MAC) address	Device	Port	Serial number	Device ID	IP Address	Config. IP Address	Device Type		
00-1C-01-02-60-27	FENA-21		06110087	0x111	0.0.0.0	192.168.0.15	Device		
00-1C-01-0A-C7-FA	FPNO-21		08200016	0x111	192.168.0.20	192.163.0.20	Device		
Send succeded									
FENA-21 [SN=0	6110087	, ID=0	x111]						
New configuration									
DHCP									
IP address 192	. 168 .	0.	15						
Subnet mask 255	j . 255 .	255 .	0 Send Cor	ofiguration					
Std. gateway 0	. 0 .	0.	0	ingeretion					
Link mode Auto			~						

3.4.6 To validate and confirm the taking account of changes in adapter module, click again on Scan button and then verify the columns IP Address and Config. IP Address, same addresses are shown.

🗰 IP-Configuration										×
File Help										
Scan	[	ABB Net	config proto )ynamic Con	col (e.g. for figuration Pi	AC500 PLC, CI5 rotocol (DCP)	2x-MODTCP devic	es and ABB Drives)			
(MAC) address	Dev	ice Po	ort Seria	l number	Device ID	IP Address	Config. IP Address	Device Type		
00-1C-01-02-60-	27 FEN	A-21	0611	0087	0x111	192.168.0.15	192.168.0.15	Device		
00-1C-01-0A-C7	-FA FPN	0-21	0820	0016	0x111	192.168.0.20	192.168.0.20	Device		
New configuration DHCP IP address	1 192 . 1(	58 . O	. 15							
Subnet mask	255 . 25	55 . 255	. 0	Send Co	nfiguration					
Std. gateway	0.0	).0	. 0							
Link mode A	uto		~							
-										