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Changing the IP address of a module via the TIA

### Portal

Operating instructions

Version: 1 09/2024

## Instructions: Changing the IP address of a module via TIA Portal

## Prerequisite:

Agile Production Simulation (APS):

- The APS is set up and ready for operation.
- The existing modules are connected in the APS network.
- The new module is connected and connected to the APS via LAN.

Local computer:

- TIA Portal v18 is installed with default settings.
- PLC project file of the module whose IP is to be changed is downloaded.
  - <u>Github link: https://github.com/fischertechnik/Agile-Production-</u> <u>Simulation-24V</u>
- The local computer is connected to the APS network.

A Sollten two modules have the same IP, an error is displayed on the PLC for one of the modules. The PLC of this module is not recognized by the APS.

## Carrying out the IP change of the PLC:

#### Step 1: Open project

- 1. Start TIA Portal.
- 2. Use "**Browse"** to select and open the PLC project file of the new module in the local file system.
- 3. When prompted to specify a **storage location** for the project, navigate to the desired storage location and **select** it.

Vi Siemens				_ ¤ ×
				Totally Integrated Automation PORTAL
Start 崎		Open existing project		
Devices & Streetworks PLC programming PC programming technology Retention & Retention Prive parameterization	<ul> <li>Open existing project</li> <li>Create new project</li> <li>Migrate project</li> <li>Close project</li> </ul>	Recently used Project	Path	Last change
Visualization Online & Diagnostics	Welcome Tour     First-steps	<ul> <li>✓ Activate basic integrity check</li> </ul>		>
	<ul> <li>Installed software</li> <li>Help</li> </ul>	Browse Remove		Open
	🚱 User interface language			
Project view				

#### Step 2: Call up project view

M Siemens - C:\Users\Jars.weiss_om	m-solut\Documents\Automatisierung\tmp_testo	rdner_felix\AIQS\AIQS		_ ¤×
				Totally Integrated Automation PORTAL
Start 崎		First steps		
Devices &	Open existing project	Project: "AIQS" was opened success	fully. Please select the next step	:
	Create new project	Start		
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> Details view	Mesage     Project /     Project /	ow all messages ▼ closed. NQS opened.	c	50 to ? Date Time 17.04.2024 10:30:22 4/17/2024 10:40:38 AM

1. Open the project via "Open the project view".

Step 2.1: Find all visible PLCs (optional)

- Project Edit View Insert Online Options Tools Window Help line 🖉 Go offline 🛔 🖪 🖉 😤 🖃 🛄 🔛 🔣 <earch in project> 👫 📑 📑 🔚 Save project 🛛 🗐 💋 Go online 💋 Extended go online. Project tree 🔊 Go offline Ctrl+M Devices Use only legacy PG/PC communication -Simulation ۲ Stop runtime/simulation Name Download to device AlQS Extended download to device. Add new device Download and reset PLC program Devices & networks Devices a metric of the actual values
   Devices a metric of the actual values Download user program to Memory Card Security settings
   Cross-device function
   Load snapshots as actual values
   Load start values as actual values Upload from device (software) Common data Documentation set
   Upload device as new station (hardware and software)... Backup from online device 🕨 词 Languages & resou Version control inte Hardware detection . Online access Card Reader/USB mem HMI Device maintenance . Accessible devices... Ctrl+U Start CPU Ctrl+Shift+E Stop CPU Ctrl+Shift+O Q Online & diagnostics Ctrl+D Receive alarms
- 1. Click on the "Accessible devices" via the "Online" tab.

2. Type of the PG/PC interface  $\rightarrow$  "Select PN/IE".

#### 3. PG/PC interface → select the network controller/adapter that is

responsible for the connection to the APS network in the PC/laptop used.

4. Start the search by clicking on "Start search".
-> After the search, all PLCs visible in the network are displayed.

		Type of the PG/PC interfa	ce: PN/IE		T
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#### Step 3: Open the properties of the PLC in the project

- 1. **Right-click** on *AIQS* and select "**Properties**...".
  - a. As an alternative to *AIQS*, *DRILL*, *MILL* or *HBW* can also be entered here, depending on which PLC project file was selected.

Name		
▼ AIQS		
Add new device		
Devices & netw	orks	
AlQS [CPU 12 <sup></sup>	Change device	
🕨 🔚 Ungrouped de	- change device	
🕨 📷 Security settir	Open	
Cross-device	Open in new editor	
🕨 📑 Common data	Open block/PLC data type	F7
Documentatie )	( Cut	Ctrl+X
🕨 🐻 Languages & 🛽	Сору	Ctrl+C
Version contr	Paste	Ctrl+V
Online access	C Delete	Del
Card Reader/USB	Rename	F2
1	Go to topology view	
	Go to network view	
-	Compile	
	Complie Download to device	
	Backup from online device	
	Go online	Ctrl+K
	Go offline	Ctrl+M
1	Online & diagnostics	Ctrl+D
	Receive alarms	
10	Snapshot of the actual value	ac .
6	Load snapshots as actual v	alues
	Load start values as actual	values
	Copy snapshots to start valu	ies 🕨
6	Compare	,
	Search in project	Ctrl+F
3	Cross-references	F11
	Call structure	
	Assignment list	
4	Update program	
	Print	Ctrl+P
	Print preview	
	Export CAx data	
5	Export module labeling strip	S
	Add-Ins	
> Details view	Export / Import	•
Portal view	Properties A	lt+Enter

#### Step 4: Find Ethernet settings

1. The **IP address** of the module whose PLC project file was selected in step 1 can be found under "**PROFINET interface (X1)**" for **Ethernet addresses**.

General IO tags Sy	ystem constants Texts	
General	PROFINET interface [X1]	
PROFINET interface [X1]		[
DI 14/DQ 10	General	]
AI 2/AQ 2		
High speed counters (HSC)	Name: PROFINET-Schnittstelle 1	
Pulse generators (PTO/PWM)		
Startup	Author:	
Cycle	Comment:	^
Communication load		
System and clock memory		
SIMATIC Memory Card		$\sim$
Web server		
Multilingual support	Ethernet addresses	
Time of day	Interface networked with	
Protection & Security		
OPC UA	Subnet: Not networked	
Advanced configuration		
Connection resources	Add new subnet	
Overview of addresses		_
Runtime licenses	Internet protocol version 4 (IPv4)	
	Set IP address in the project	
	Sectil address in the project	
	IP address: 192 . 168 . 070	
	Subnet mask: 255 . 255 . 0	
	Use router	
	Router address:	
	U ir address is set directly at the device	



#### Step 5: Customize and adopt IP

1. The possible IP addresses vary depending on the module. Select the IP that matches your module.

MILL#1	opc.tcp://192.168.0.40:4840
MILL #2	opc.tcp://192.168.0.41:4840
MILL #3	opc.tcp://192.168.0.42:4840
MILL #4	opc.tcp://192.168.0.43:4840
MILL #5	opc.tcp://192.168.0.44:4840
DRILL #1	opc.tcp://192.168.0.50:4840
DRILL #2	opc.tcp://192.168.0.51:4840
DRILL #3	opc.tcp://192.168.0.52:4840
DRILL #4	opc.tcp://192.168.0.53:4840
DRILL #5	opc.tcp://192.168.0.54:4840
OVEN #1	opc.tcp://192.168.0.60;4840
OVEN #2	opc.tcp://192.168.0.61:4840
OVEN #3	opc.tcp://192.168.0.62:4840
OVEN #4	opc.tcp://192.168.0.63:4840
OVEN #5	opc.tcp://192.168.0.64:4840
AlQS #1	opc.tcp://192.168.0.70;4840
AlQS #2	opc.tcp://192.168.0.71:4840
AIQS #3	opc.tcp://192.168.0.72:4840
AIQS #4	opc.tcp://192.168.0.73:4840
AIQS #5	opc.tcp://192.168.0.74:4840
HBW #1	opc.tcp://192.168.0.80:4840
HBW #2	opc.tcp://192.168.0.81:4840
HBW #3	opc.tcp://192.168.0.82:4840
DPS (nur 1x)	opc.tcp://192.168.0.90:4840

- 2. Set the "**IP address**" to the value selected from the table above.
- 3. After the corresponding IP has been inserted, confirm by clicking the "**OK**" button to continue.

AIQS [CPU 1215C DC/DC/DC]		×
General IO tags S	System constants Texts	
General  PROFINET interface [X1]  DI 14/DQ 10  A 2/AQ 2  Hick second security: (HC)	PROFINET interface [X1]	- =
High speed counters (HSC)     Pulse generators (PTO/PWM)     Startup     Cycle     Communication load     System and clock memory     SIMATIC Memory Card     Web server	Name: PROFINETSchnittstelle_1 Author: Comment:	
Multilingual support Time of day Protection & Security OPC UA	Ethemet addresses	
<ul> <li>Advanced configuration</li> <li>Connection resources</li> <li>Overview of addresses</li> </ul>	Subnet: Not networked  Add new subnet	
Runtime licenses	Internet protocol version 4 (IPv4)	~
	OK	:el

#### Step 5.1: Save project

1. Save the project using the "Save project" button.



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#### Step 6: Compile project PLC

1. **Right-click** on the module via "**Compile**" and click on "**Hardware and software (only changes)**".

Pr	oject Edit V	íew	Insert	Online	Optio	ns Tools	Window	Help					
	🕴 📑 🛃 Save p	oroje	ct 📑 👌	K 🔟	۵x	5 ± (	± 🖥 🛄	16 🖳		Go online	2	Go offline	å?
	Project tree						П	4					
	Troject acc	1					u.						
	Devices												
	1							<u>1</u>					
	Name							-					
art	▼ AIQS												
5	📑 Add n	ew o	device										
	📩 Devic	es &	networks										
	AlQS	[CPI	Change de		-		Export	Import					
	🕨 🔚 Ungro	I	change de	vice			Exports	in porc					
	Secur		Open Open in no				og Propert	ies Ali	t+Enter				
	Cross		Open block	k/PLC da	ata type	F7							
	Docu		openoide		no gpc.								
	Langi	X	Cut			Ctrl+X							
	Versio	間	Paste			Ctrl+V							
	) 🔚 Online a		Delete			D-I							
	🕨 🣴 Card Rea	x	Pename			E2							
		-	Rename			12							
		5	Go to topo	logy vie	w								
		m	Go to netw	OIK VIE	w								
			Compile	te devi			Hardwa	re and s	oftware	(only change	es)		
			Backup fro	m onlin	le device	. '	Hardwa	re (rehu	ild all)	)			
		1	Go online		ie device	Ctrl+K	Softwar	e (only c	(hanges)				
		2	Go offline			Ctrl+M	Softwar	e (rebuil	ld all)				
		γ.	Online & d	iagnost	tics	Ctrl+D	Softwar	e (reset	memory	reserve)			
			Receive ala	arms						001100		Bar Con	
		邮	Snapshot	of the a	ctual val	lues				110011			
		10	Load snap	shots a	s actual	values							
		B.,	Load start	values	as actua	al values							
			Convenant	shots to	s ctart va	lues b							-

#### Step 7: Transfer the compiled project to the PLC

1. **Right-click** on the module to open the menu and select "**Hardware and** software (only changes)" via "Download to device".



- 2. In the new window, set the values as in **step 2.1:** 
  - a. Type of the PG/PC interface → "Select PN/IE".
  - b. PG/PC interface  $\rightarrow$  select the network controller/adapter that is

responsible for the connection to the APS network in the PC/laptop used.

- 3. In addition, "Show all compatible devices" must be selected.
- 4. Start the search with the "**Start search**" button.

	Device AIQS	evice Device type ! JQS CPU 1215C DC/D		Interface type PN/IE	Address 192.168.0.71	Subnet
		Type of the PG/PC inte PG/PC inte Connection to interface/su 1st gate	rface: rface: ibnet: eway:	PN/IE Killer Wireles Direct at slot '1	s-n/a/ac 1535 Wireless X1'	• Network • •
	Select target Device	device: Device type	Interf	ace type Ad	Show all compatible	devices Target device
1 1	_	-	FINE	En	ter address here	
Flach LED						
Hash LED						Start searc

- 5. **Select** the **PLC to be overwritten** (orange) whose IP address is to be changed.
  - a. The PLC must control the module that corresponds to the loaded project (green).
  - b. The IP address in the orange box is overwritten with the one in the green box
- 6. Once the appropriate PLC has been selected, press the "**Load**" button to continue.

	Device	evice Device type S		nterface type	Address	Subnet	
4	AIQS	CPU 1215C DC/D	1 X1 F	™/IE	192.168.0.71		
		Type of the PG/PC inter	face: 🖳	PN/IE		•	
		PG/PC inter	face: 💹	Killer Wireless	n/a/ac 1535 Wireles	s Network 💌	•
		Connection to interface/su	bnet: Dir	ectatslot'1)	(1)		۲
		1st gate	eway:			<b>v</b>	۲
	Device	Device type	Interface ty	ype Add	Iress	Target device	
ne. — ]	MILL	CPU 1215C DC/D	PN/IE	192	.168.0.40	MILL	
	DRILL	CPU 1215C DC/D	PN/IE	192	.168.0.50	DRILL	
65	AIQS	CPU 1215C DC/D	PN/IE	192	.168.0.70	AIQS	
	HBW	CPU 1215C DC/D	PN/IE	192	.168.0.80	-	
	DPS	CPU 1215C DC/D	PN/IE	192	.168.0.90	-	
Flash LED	DRILL	CPU 1215C DC/D	PN/IE	192	.168.0.130	-	
	-	-	PN/IE	Ent	er address here	-	
						<u>S</u> tart se	earc
nline status informa	tion:				Display only error	messages	
Found accessible	e device drill						
Scan completed.	6 compatible device	s of 6 accessible devices fou	nd.				-
? Retrieving device	information						
Scan and informa	tion retrieval comple	eted.					

7. When the PLC is connected to this TIA Portal for the first time, the following window appears, press "**connect**" to continue.



8. When the "Load Preview" window appears, change the "Stop modules" field from "no action" to "stop", then you can press "Load" to continue.

tatus	1	Target	Message	Action	-
+₩	4	▼ AIQS	Loading will not be performed because preconditions are not met	Load 'AIQS'	
	4	<ul> <li>Protection</li> </ul>	Protection from unauthorized access		
	4		Devices connected to an enterprise network or directly to the internet must be appropriately protected against unauthorized access, e.g. by use of firewalls and network segmentation. For more information about industrial security, please visit http://www.siemens.com/industrialsecurity		
	۸	Stop modules	The modules are stopped for downloading to device.	No action	•
	0	Device configurati	Delete and replace system data in target	Download to device	
	0	Software	Download software to device	Consistent download	
	-				>

- 9. After the charging process has been successfully completed, ensure that the module is restarted.
- 10. Finish the step by clicking on "**Finish**".

tatus	!	Target	Message	Action
<b>₩</b>	<b>v</b>	▼ AIQS	Downloading to device completed without error.	Load 'AIQS'
	0	Start modules	Start modules after downloading to device.	Start module
			III.	

#### Step 8: Checking the IP address

Is the PLC in the network and is it displayed with the new IP address? Perform **step 2.1** again:



1. Click on the "Accessible devices" via the "Online" tab.

2. Type of the PG/PC interface  $\rightarrow$  "Select PN/IE".

#### 3. PG/PC interface → select the network controller/adapter that is

responsible for the connection to the APS network in the PC/laptop used.

4. Start the search by clicking on "**Start search**".

-> After the search, all PLCs visible in the network are displayed.