

Bedienungsanleitung

Version: 1 09/2024

Anleitung: IP-Adresse eines Moduls über TIA-Portal ändern

Voraussetzung:

Agile Production Simulation (APS):

- Die APS ist aufgebaut und betriebsbereit.
- Die bestehenden Module sind im APS-Netzwerk verbunden.
- Das neue Modul ist angeschlossen und mit der APS über LAN verbunden.

Lokaler Rechner:

- TIA-Portal v18 ist mit Standardeinstellungen installiert.
- SPS-Projekt-Datei des Moduls, dessen IP geändert werden soll, heruntergeladen.
 - <u>Github-Link: https://github.com/fischertechnik/Agile-Production-</u> <u>Simulation-24V</u>
- Der lokale Rechner ist mit dem Netzwerk der APS verbunden.

A Sollten zwei Module die selbe IP haben, wird bei einem der Module ein Error auf der SPS angezeigt. Die SPS dieses Moduls wird nicht von der APS erkannt.

Durchführung der IP-Änderung der SPS:

Schritt 1: Projekt öffnen

- 1. TIA Portal starten.
- 2. Über "**Browse**" die SPS-Projekt-Datei des neuen Moduls im lokalen Dateisystem auswählen und öffnen.
- 3. Nach Aufforderung, einen **Speicherort** für das Projekt festzulegen, zum gewünschten Speicherort navigieren und diesen **auswählen**.

Via Siemens				_ ¤ ×
				Totally Integrated Automation PORTAL
Start 🧤		Open existing project		
Devices & Antervorks PLC programming Motion & Antervorks Drive Drive Antervorks Drive Antervorks An	 Open existing project Create new project Migrate project Close project 	Recently used Project	Path	Last change
Visualization Online & Diagnostics	Welcome Tour First-steps	Activate basic integrity check		
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Project view	🚱 User interface language			

Schritt 2: Projektansicht aufrufen

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> Details view				
4. Destada da un	w			Project AIQS opened

1. Über "**Open the project view**" das Projekt öffnen.

Schritt 2.1: Alle sichtbaren SPS finden (optional)

- Project Edit View Insert Online Options Tools Window Help 🌁 🎦 🔒 Save project 🛛 昌 💋 Go onli Ctrl+K line 🖉 Go offline 🛔 🖪 🖪 🧩 🖃 🛄 🔛 🔣 <earch in project> 👫 🔊 Extended go online. 🔊 Go offline Project tree Ctrl+M Devices Use only legacy PG/PC communication 阍 Simulation ۲ Stop runtime/simulation Name Download to device Ctrl+L 🕶 🛅 AIQS Extended download to device. 🌁 Add new device Download and reset PLC program Bevices & networks AlQS [CPU 1215C O
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 Construction of the actual values
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 Canguages & resou
 Backup from online device 🕨 🐻 Languages & resou Version control inte Hardware detection • 🕨 🣴 Card Reader/USB mem HMI Device maintenance . Accessible devices... Ctrl+U Start CPU Ctrl+Shift+E Stop CPU Ctrl+Shift+Q Q. Online & diagnostics Ctrl+D Receive alarms
- 1. Über den Reiter "**Online**" auf die "**Accessible devices**" klicken.

- 2. Type of the PG/PC interface \rightarrow "PN/IE auswählen".
- PG/PC interface → den Netzwerk Controller/Adapter auswählen, der im benutzen PC/Laptop für die Verbindung zum Netzwerk der APS zuständig ist.
- 4. Mit einem Klick auf "**Start search**" die Suche starten.

-> Nach der Suche werden alle im Netzwerk sichtbaren SPS angezeigt.

		Type of the PG/PC interfa	ce: 🖳 PN/IE	PN/IE		
		PG/PC interfa	ce: Please selec	t	•	
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Schritt 3: Eigenschaften der SPS im Projekt öffnen

- 1. Mit einem **Rechtsklick** auf *AIQS* klicken und die "**Properties…**" auswählen.
 - a. Alternativ zur *AIQS* kann hier auch *DRILL*, *MILL* oder *HBW* stehen, je nachdem welche SPS-Projekt-Datei gewählt wurde.

Name		
▼ AIQS		
📑 Add new devi	ce	
📥 Devices & net	works	
🕨 🧃 AIQS [CPU 12	Change device	
🕨 🔛 Ungrouped d	change device	
🔹 🕨 📷 Security settir	Open	
🔹 🕨 🤂 Cross-device	Open in new editor	
🔹 🕨 🧃 Common dati	Open block/PLC data type	F7
🕨 🕨 🛅 Documentatio	∦ Cut	Ctrl+X
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🕨 🛛 🛃 Version contr	🛅 Paste	Ctrl+V
🕨 🔚 Online access	X Delete	Del
🕨 🤄 Card Reader/USB	Rename	F2
	📇 Go to topology view	
	Go to network view	
	Compile	
	Download to device	
	Backup from online device	
	Go online	Ctrl+K
	🖉 Go offline	Ctrl+M
	🗓 Online & diagnostics	Ctrl+D
	Receive alarms	
	Snapshot of the actual value	es
	Load snapshots as actual va	alues
	Load start values as actual	values
	Copy snapshots to start valu	ies 🕨
	Compare	•
	Search in project	Ctrl+F
	× Cross-references	F11
	Call structure	
	Assignment list	
	Supdate program	
	Print	Ctrl+P
	rint preview	
	Export CAx data	
	Export module labeling strip	s
	Add-Ins	
> Details view	Export / Import	•
Portal view	🔍 Properties A	lt+Enter
	·	

Schritt 4: Ethernet-Einstellungen finden

1. Unter "**PROFINET interface (X1)**" findet man bei **Ethernet addresses** die **IP Adresse** des Moduls, dessen SPS-Projekt-Datei in Schritt 1 ausgewählt wurde.

General IO tags Syst	em 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 activity	
Protection & Security	Interface networked with	
OPC UA	Coloria National and	
Advanced configuration	Subnet: Not networked	
Connection resources	Add new subnet	
Overview of addresses		
Runtime licenses	Internet protocol version 4 (IPv4)	
	-	
	 Set IP address in the project 	
	IP address: 192.168.0 .70	
	Subnet mark: 255 255 255 0	
	Subjectiliask. 235.255.0	
	Use router	
	Router address: 0 . 0 . 0 . 0	
	IP address is set directly at the device	
	·	

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Schritt 5: IP anpassen und übernehmen

1. Die möglichen IP-Adressen sind je nach Modul unterschiedlich. Wählen Sie die IP passend zu Ihrem Modul aus.

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
AIQS #1	opc.tcp://192.168.0.70:4840
AIQS #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. Die "IP address" auf den aus der oberen Tabelle gewählten Wert setzen.
- 3. Nachdem die entsprechende IP eingefügt wurde, über den Button "**OK**" bestätigen, um fortzufahren.

AIQS [CPU 1215C DODODC	
General 10 tags	System constants Texts
General IO tags General PROFINE Tinterface [X1] D 114/DQ 10 AI 2/AQ 2 High speed counters (HSC) Pulse generators (PTO/PWM) Startup Cycle Communication load Sustaine and alcologaments	System constants Texts PROFINET interface [X1] General Name: PROFINETSchnittstelle_1 Author: Comment:
Sistem and clock memory SIMATIC Memory Card Web server Multilingual support	
Time of day Protection & Security OPC UA Advanced configuration 	
Connection resources Overview of addresses Runtime licenses	Add new subnet Internet protocol version 4 (IPv4)
	Set IP address in the project IP address: 192.168.0.70 Subnet mask: 255.255.0 Use router Router address: 0.0.0.0 IP address is set directly at the device
	Cancel

Schritt 5.1: Projekt speichern

1. Das Projekt über den Button "Save project" speichern.



Schritt 6: Projekt-SPS kompilieren

1. Per **Rechtsklick** auf das Modul über "**Compile**" auf "**Hardware and software (only changes)**" klicken.

Pr	oject Edit V	iew	Insert On	line	Option	s Tools	Window	Help					
	🕴 📑 📑 Save p	roject	Ж 昌	D (×	רא פי	± 🖥 🔃	16 🛛	l 🖪 🔎	Go online	1	Go offline	<u>å?</u>
	Project tree		1 1					4	1				-
	Tiojectuce	1		_		_		Ì					
	Devices												
	E							👌 📗					
	Name												
Ħ	🔻 🛅 AIQS												
2	📑 Add r	ew de	vice										
	📩 Devic	es&n	etworks										
	AIQS	CPU 1	215C DC/DC	חרן/			Evenent /			1			
	🔹 🕨 🛄 Ungro		hange devic	e			Export	import					
	🕨 🛃 Secu	0	pen				🔍 Properti	es A	lt+Enter				
	🕨 🦗 Cross	0	pen in new e	editor									
	🕨 🤰 Comr	0	pen block/PL	.C data	type	F7							011
	Docu	X C	ut			Ctrl+X							100
	Langi Langi	II C	ору			Ctrl+C				130011			1011
			aste			Ctrl+V				001100			X
	Card Rea	XD	elete			Del				110011			
		Re	aname			F2							
		🚽 G	o to topolog	y view									
		ng d	o to network	view									
		C	ompile			•	Hardwa	re and	software	(only change	es)		
		D	ownload to o	device		•	Hardwa	re (only	y changes)			
		Ba	ackup from o	online	device		Hardwa	re (reb	uild all)				
		9 G	o online			Ctrl+K	Softwar	e (only	changes)				
			o onnine nline & diag	nostice			Softwar	e (rese	t memory	reserve)			
			eceive alarm	is		Cu+D	5010101	c (iese	ememory	leselve)	110		
		10. 0	nanchot of t	a a ctu						110011			
			oad snapsho	ne acti	actual v	alues				003300	4.4.0	04400	1000
			oad start val	ues as	actual	values							
		0	onvenansho	ts to s	tart val	lies 🕨						oforonco	

Schritt 7: Kompiliertes Projekt auf die SPS übertragen

1. Per **Rechtsklick** auf das Modul das Menü öffnen und über "**Download to device**" die "**Hardware and software (only changes)**" auswählen.

Image: Save project Image: Save project	
Project tree	
Devices	
Name	
AlQS	
Add new device Add new device	
Change device Export / Import	
🕨 🙀 Secu Open 🔯 Properties Alt+Enter	
Cross Open in new editor	i annaí
Com Open block/PLC data type F7	11001
Docu X Cut Ctrl+X	
Copy Ctrl+C	10 (
Card Rea Rename F2	
Go to network view	
Compile	1
Download to device), 401
Backup from online device Hardware configuration	
Ø Go online Ctrl+K Software (only changes)	
Go offline Ctrl+M Software (all)	
Ctrl+D	
Shapshot of the actual values	
Load start values as actual values	
Copy snapshots to start values	Compil

- 2. In dem neuen Fenster, die Werte wie in **Schritt 2.1** setzen:
 - a. Type of the PG/PC interface \rightarrow "PN/IE auswählen".
 - b. PG/PC interface → den Netzwerk Controller/Adapter auswählen,

der im benutzen PC/Laptop für die Verbindung zum Netzwerk der APS zuständig ist.

- 3. Zusätzlich muss "Show all compatible devices" ausgewählt sein.
- 4. Mit dem Button "**Start search**" die Suche starten.

vork V ®	192.168.0.71	193	PN/IE	1 11			
vork v @					CPU 1215C DC/D 1 X1		
	n/a/ac 1535 Wireless Netwo	Vireless-n/a/a	PN/IE	erface: erface:	pe of the PG/PC inte PG/PC inte		
▼ ♥ ▼ ♥	'	slot '1 X1'	Directat	ubnet: teway:	ction to interface/su	Coni	
farget device	ess Tar	Address	ace type	Inter	Device type	Device	
-	r address here —	Enter ad		PN/IE	-	-	na. — - <u>—</u>
							Flash LED
<u>Start search</u> sages] Display only error messa	🗌 Dis				:	line status information
s] Display only error mess	Di:				:	Flash LED

- 5. Die **zu überschreibende SPS (orange) auswählen**, deren IP-Adresse geändert werden soll.
 - a. Die SPS muss das Modul steuern, das dem geladenen Projekt (grün) entspricht.
 - b. Die IP-Adresse im orangenen Kasten wird mit der im grünen Kasten überschrieben
- 6. Wenn die passende SPS ausgewählt wurde, drücken auf den Button "**Load**", um fortzufahren.

	Device	Device tree	Clast Inte	where there	Addeese	Cubact		
	AIQS	CPU 1215C DC/D 1 X1		IE	Address 192.168.0.71	Subre	et	
		Type of the PG/PC inter	face: 🖳 PN	I/IE			•	
		PG/PC inter	face: 🛛 🔝 Ki	ller Wireless-	n/a/ac 1535 Wirele	ss Network	- 🖲	
		Connection to interface/sul	bnet: Direc	tatslot'1)	(1)		- 💎	
		1st gate	way:				-	
	Select target de Device	evice: Device type	Interface typ	e Add	Show all compatib ress	Target de	vice	
···· 1	MILL	CPU 1215C DC/D	PN/IE	192	.168.0.40	MILL		
	DRILL	CPU 1215C DC/D	PN/IE	192	.168.0.50	DRILL		
	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> ta	rtsear	
				[Display only erro	ormessages		
ine status informa	tion:							
line status informa Found accessible	tion: device drill							
line status informa Found accessible Scan completed.	tion: device drill 6 compatible device	es of 6 accessible devices fou	nd.					
ine status informa Found accessible Scan completed. Retrieving device	tion: : device drill 6 compatible device information	es of 6 accessible devices fou	nd.					

7. Wenn die SPS das erste Mal mit diesem TIA Portal verbunden wird, erscheint das folgende Fenster, hier auf "**connect**" drücken, um fortzufahren.



 Wenn das Fenster "Load Preview" erscheint, das Feld "Stop modules" von "no action" zu "stop" ändern, dann kann man "Load" drücken um fortzufahren.

tatus	1	Target	Message	Action	
+₩	4	▼ AIQS	Loading will not be performed because preconditions are not met	Load 'AIQS'	
	4	 Protection 	Protection from unauthorized access		
	A		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		
	4	Stop modules	The modules are stopped for downloading to device.	No action	2
	•	Device configurati	Delete and replace system data in target	Download to device	
	0	Software	Download software to device	Consistent download	l
	-				>

- 9. Nachdem der Ladevorgang erfolgreich beendet wurde, sicherstellen, dass das Modul wieder gestartet wird.
- 10. Mit einem Klick auf "**Finish**" den Schritt beenden.

atus	1	Target	Message	Action
1	0	▼ AIQS	Downloading to device completed without error.	Load 'AIQS'
	0	Start modules	Start modules after downloading to device.	Start module
			111	

Schritt 8: Überprüfung der IP-Adresse

Ist die SPS im Netz und wird mit der neuen IP-Adresse angezeigt? **Schritt 2.1** erneut ausführen:



1. Über den Reiter "Online" auf die "Accessible devices" klicken.

- 2. Type of the PG/PC interface \rightarrow "PN/IE auswählen".
- 3. **PG/PC interface** → den **Netzwerk Controller/Adapter auswählen**, der im benutzen PC/Laptop für die Verbindung zum Netzwerk der APS zuständig ist.
- 4. Mit einem Klick auf "Start search" die Suche starten.
 -> Nach der Suche werden alle im Netzwerk sichtbaren SPS angezeigt.