



Setup-Manual AZD Driver with PROFINET Interface

- SIMATIC S7-1200, S7-1500
Manufactured by Siemens AG

Setup with TIA Portal

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- (1) Before using these instructions, it is the responsibility of the system manufacturer to observe the specifications of the individual components and the basic safety precautions. Only a qualified electrician or an electrically trained person, under the supervision of a qualified electrician, should carry out the installation and wiring of the individual components. It is imperative that the appropriate safety devices are used! (LS FI / RCD). Before starting work, it is essential to determine that there is no live voltage connected and to guarantee this remains the case for the duration of the work.
- (2) In order to set up the system safely, please be sure to observe the safety instructions contained in the instructions for the individual products and refer to the respective products. You will always find these in the instructions under “Safety Precautions” or “Safety Instructions”.
- (3) The system manufacturer is obliged to comply with the norms or national standards of the components of the machine.
- (4) Redistribution of this document or parts of this document is not permitted without the consent of Oriental Motor (Europa) GmbH.
- (5) The information and versions of the software contained in this document are current as of November 15th. The information in this document is not updated regularly and is subject to change without notice.
- (6) This document serves only as an example for orientation during initial commissioning. Oriental Motor (Europa) GmbH assumes no liability for the functionality of the program or any consequences or damage caused by programs created with the help of this example program.

■ Products

- **PROFINET** compatible Version of the AZ series with AC or DC power supply
- * Product knowledge of the AZ series is helpful during setup.

■ Preparation

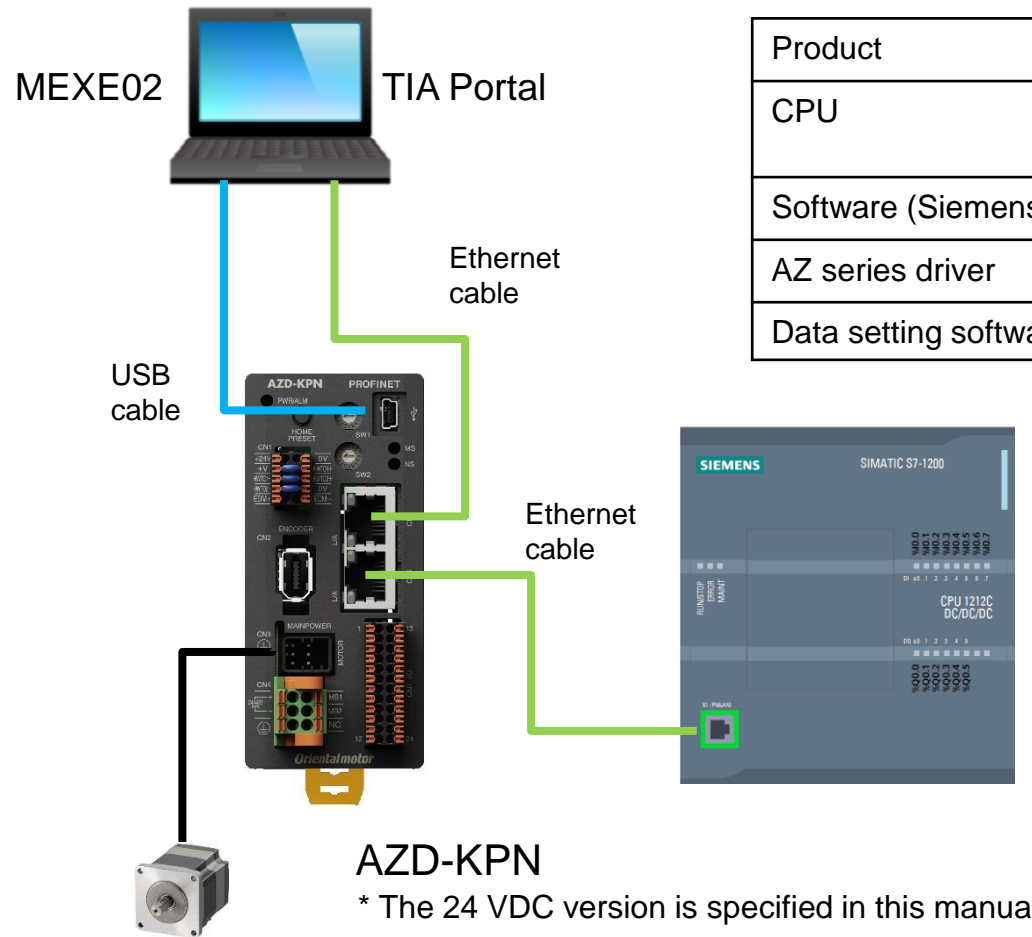
Please have a copy of the operating instructions for reference.

The latest version can be downloaded from the Oriental Motor homepage.

①	HM-60252	AZ-Series Function Edition (E)
②	HM-60411	AZ-Series Operation Manual (E) PROFINET



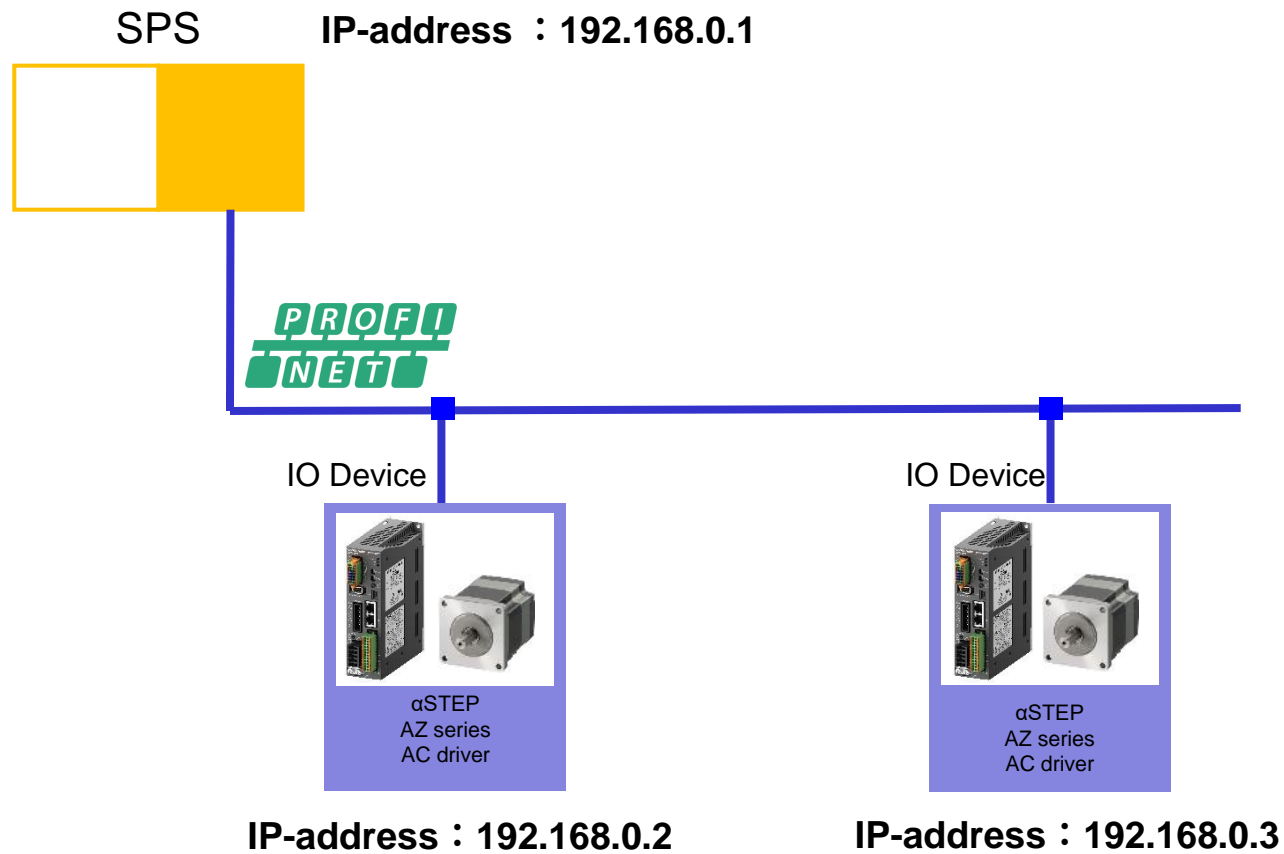
**AZ series
PROFINET compatible driver**



Product	Model	Version
CPU	SIMATIC S7-1200 6ES7 212-1AE40-0XB0(Siemens)	Ver4.2
Software (Siemens)	TIA Portal	V15.1
AZ series driver	AZD-KPN	24 VDC
Data setting software	MEXE02	Ver 4.4.0.0

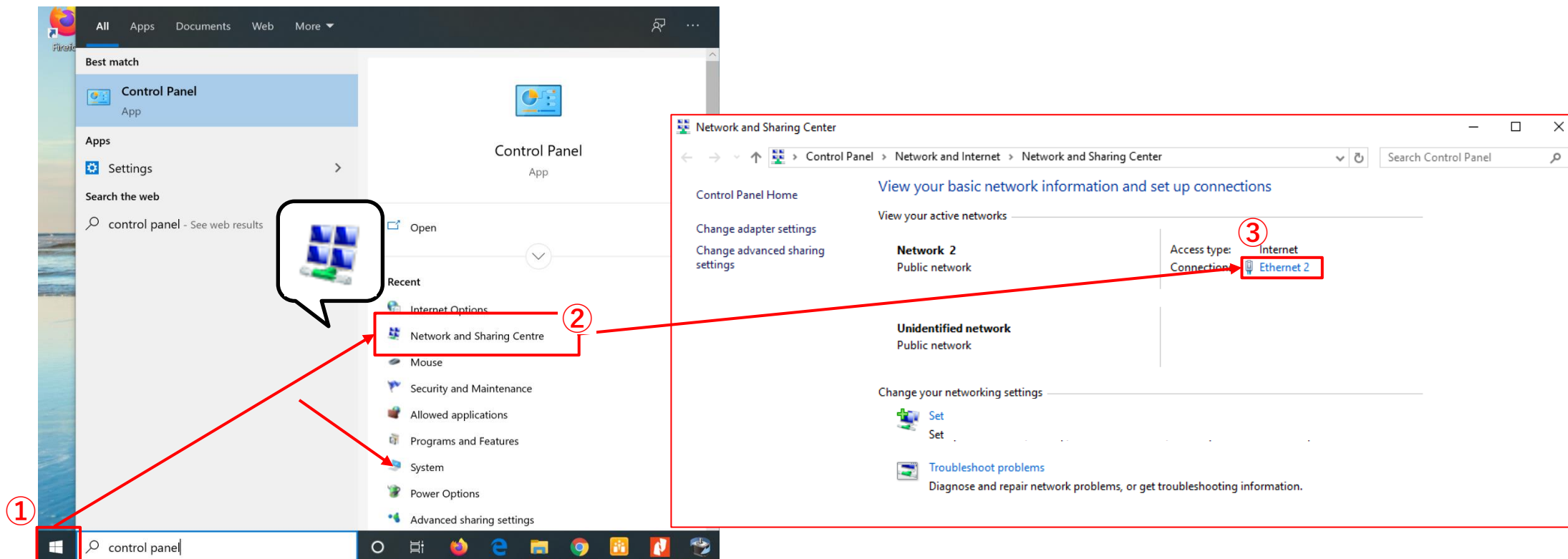
Note:

Each IP address may only be used once in a network.



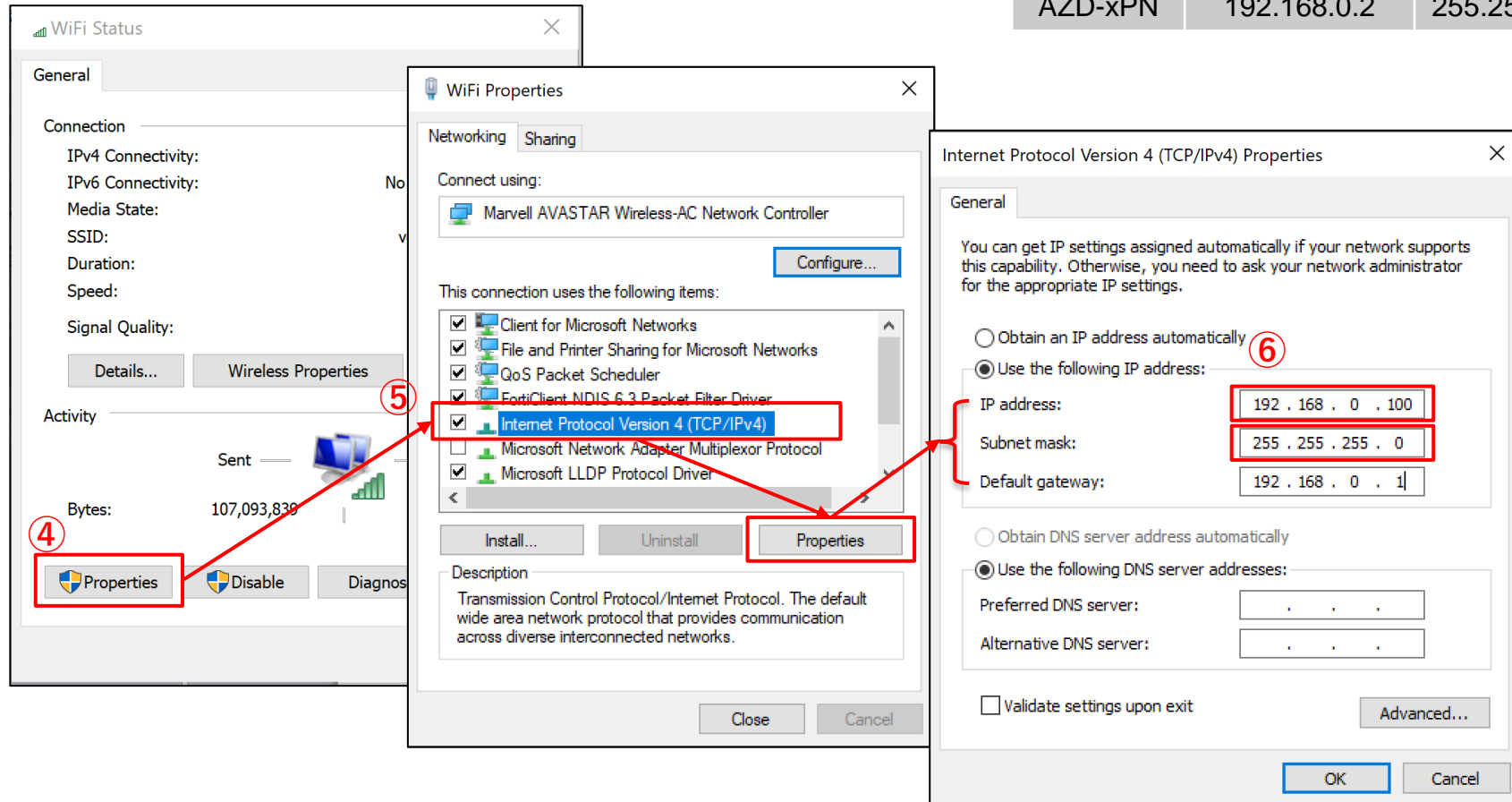
Change the setting of the IP address to be used:

- ① Click the Windows button in the lower left corner of the taskbar
Search for “control panel”
- ② Click on [Network and Sharing Centre].
- ③ Click on [Ethernet] of the network, connected to the PLC.



- ④ Click on [Properties].
- ⑤ After selecting [Internet Protocol Version 4 (TCP / IPv4)], click [Properties].
- ⑥ Set the IP address and the subnet mask.
In this manual, the IP address is “192.168.0.100”.
Set the subnet mask to “255.255.255.0”.

Device	IP address	Subnet mask
PC	192.168.0.100	255.255.255.0
SPS	192.168.0.1	255.255.255.0
AZD-xPN	192.168.0.2	255.255.255.0



A GSD file is a configuration file that configures communication settings for PROFINET devices. Please download the GSD file from our website in advance.
<https://www.orientalmotor.de/>

orientalmotor.eu/Downloads/

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GSD File AZD-CPN	Download	6 KB	XML
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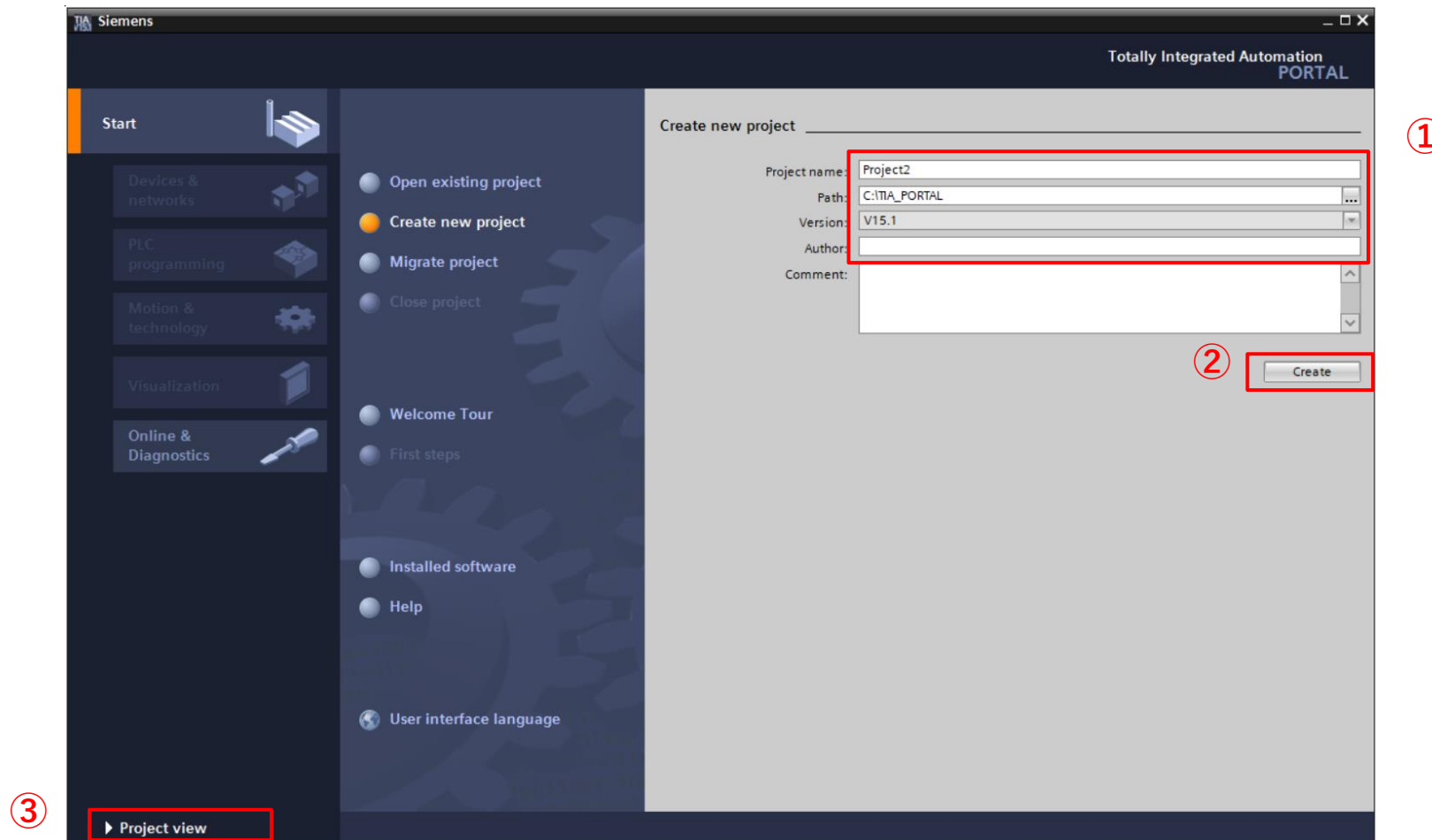
Best fit drive system.
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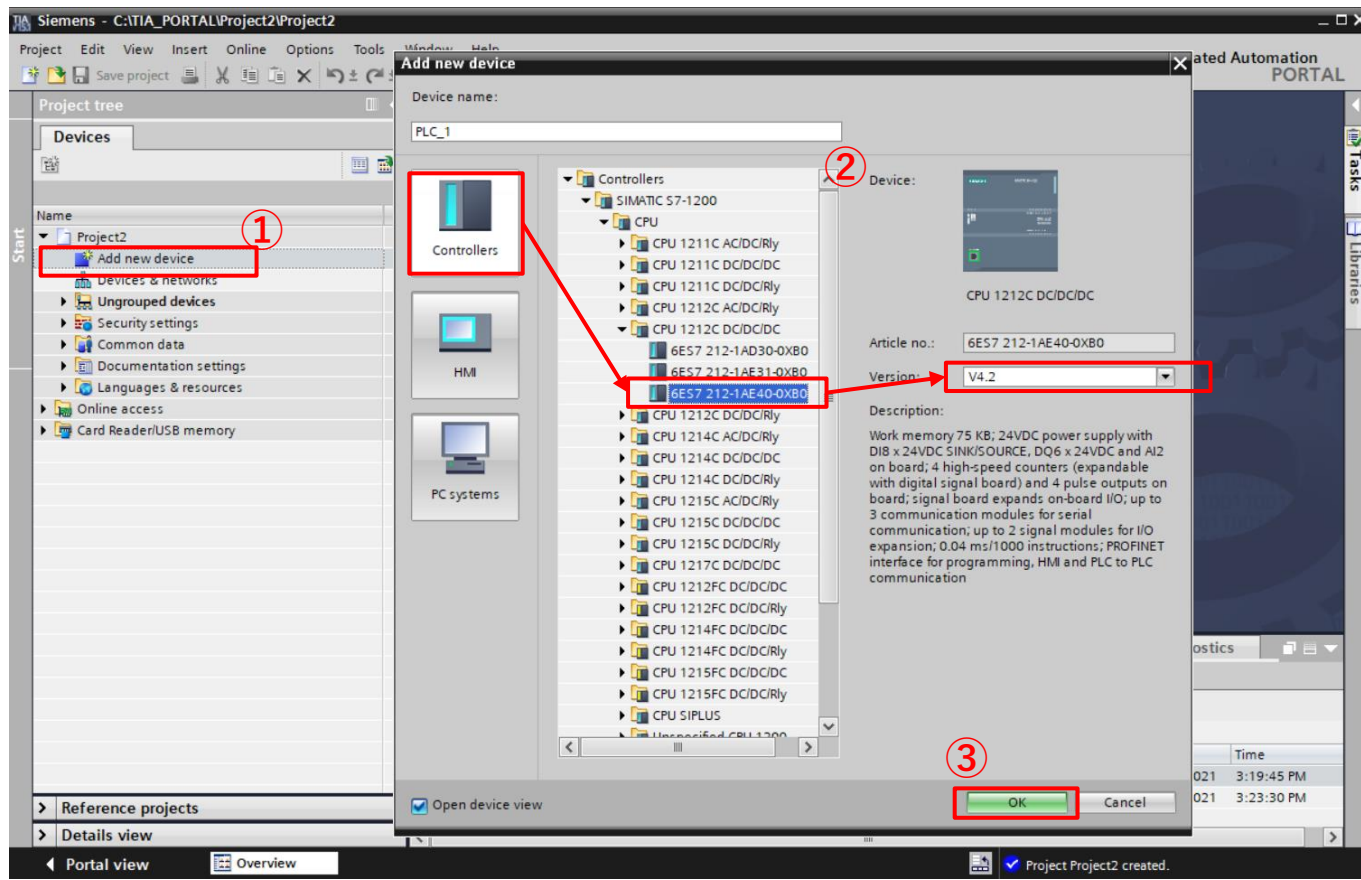
AZD-CPN	230 VAC Version
AZD-KPN	24/48 VDC Version

* Files differ depending on the version.

Start the TIA Portal:

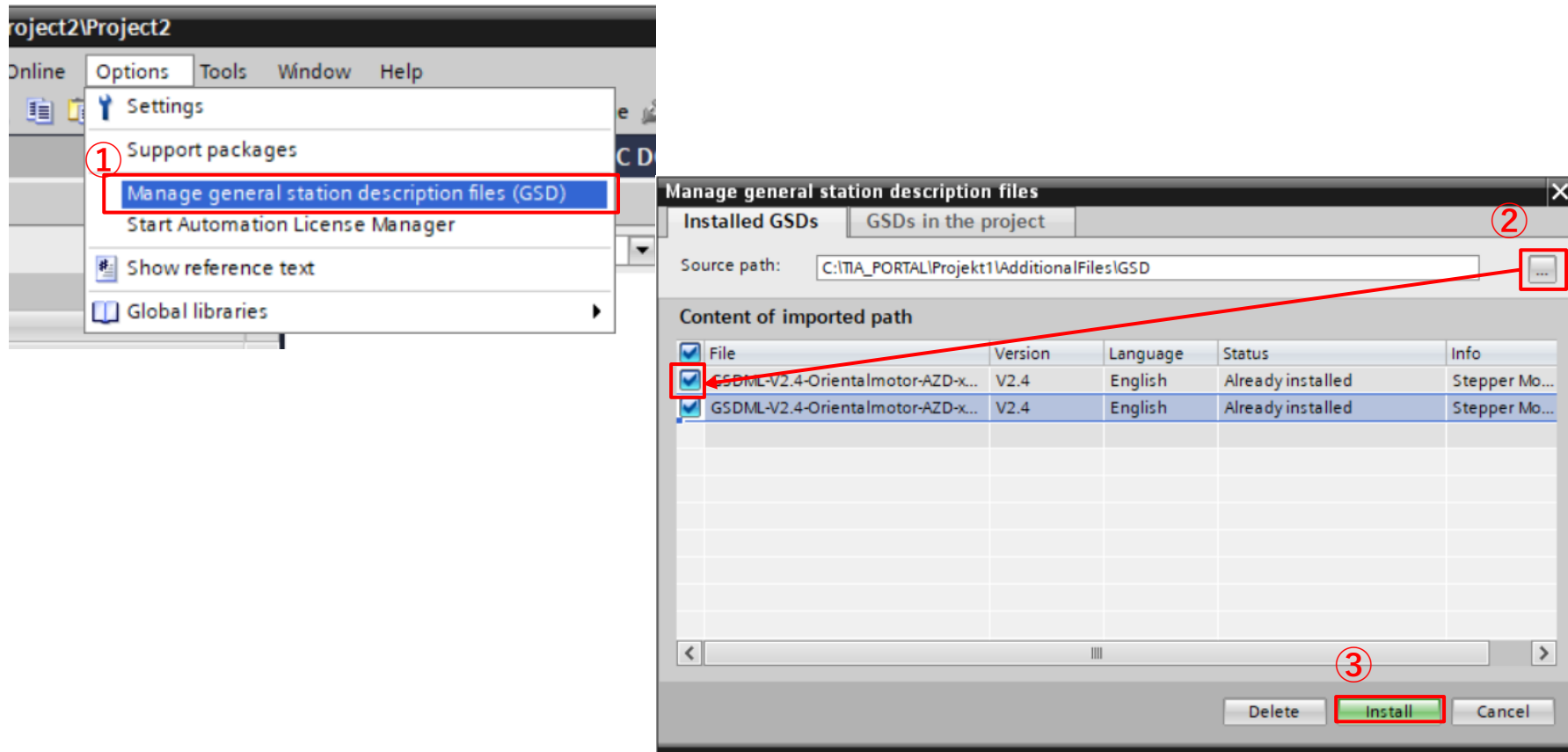
- ① Define the project name, the path and the author.
- ② Click on [Create].
- ③ Click on [Project view].





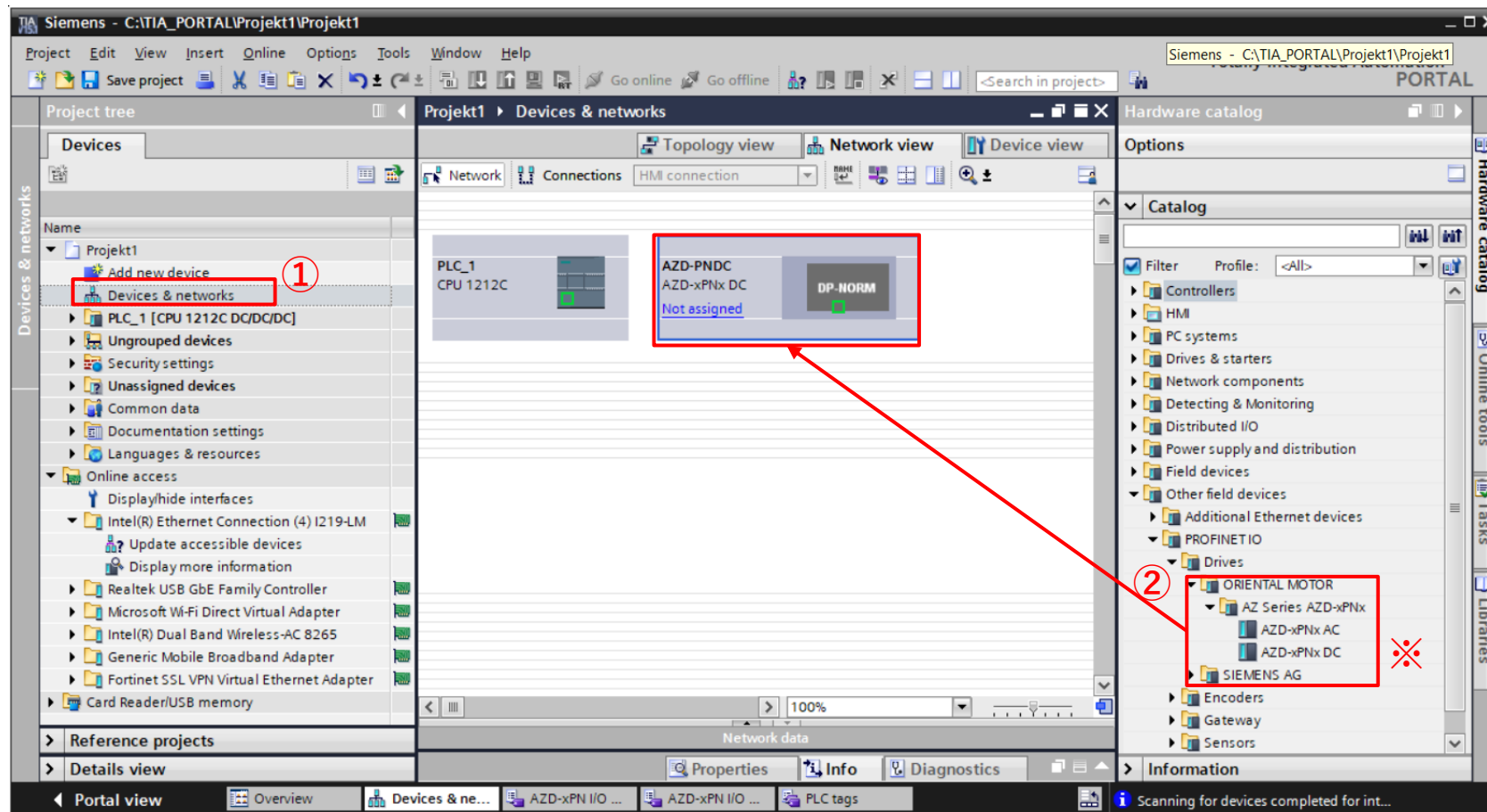
Install the downloaded GSD file for the desired driver.

- ① Click on [Options> Manage general station description (GSD)].
- ② Select the folder in which the GSD file is to be saved and tick the check box for the GSD files to be installed.
- ③ Click on [Install].



Add the driver installed under “Install the GSD file”:

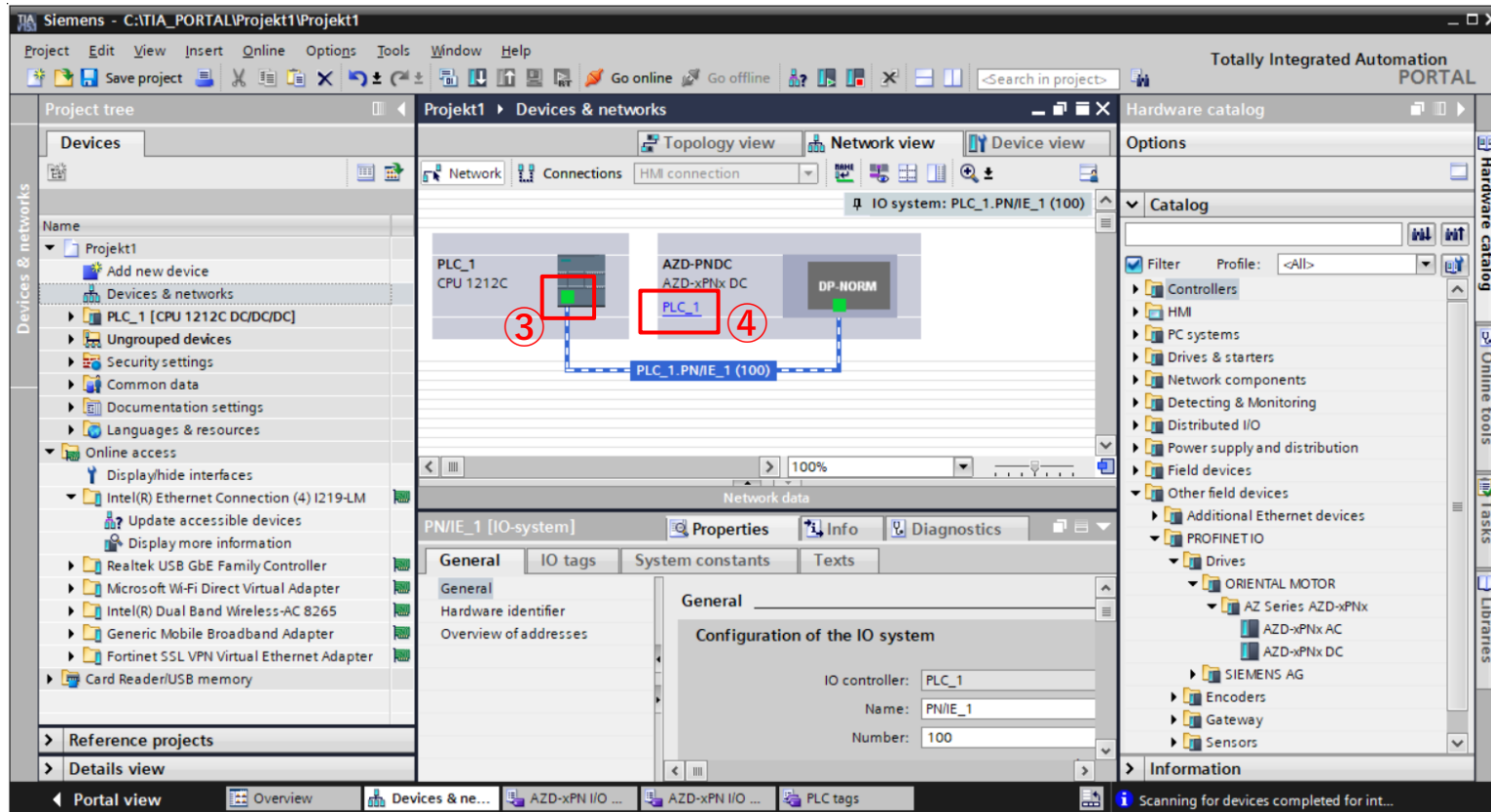
- ① Double-click on [Devices & networks].
- ② In the [Catalog] directory, double-click the driver you want to use and add the driver. Place it in any position.



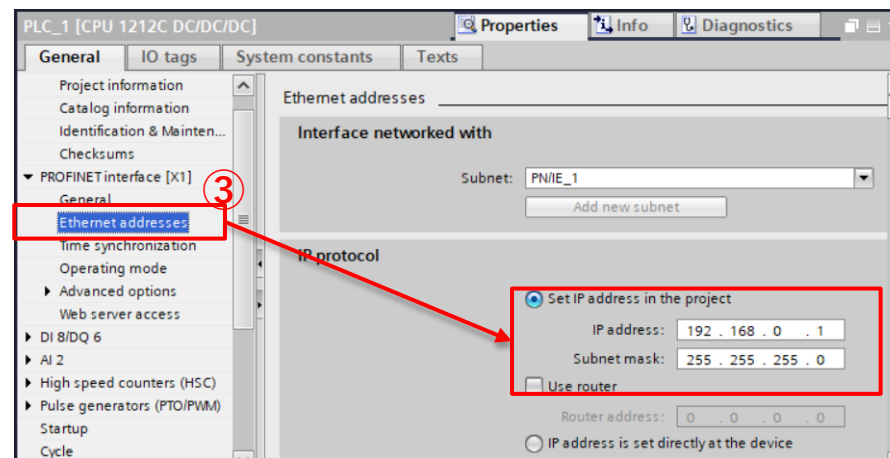
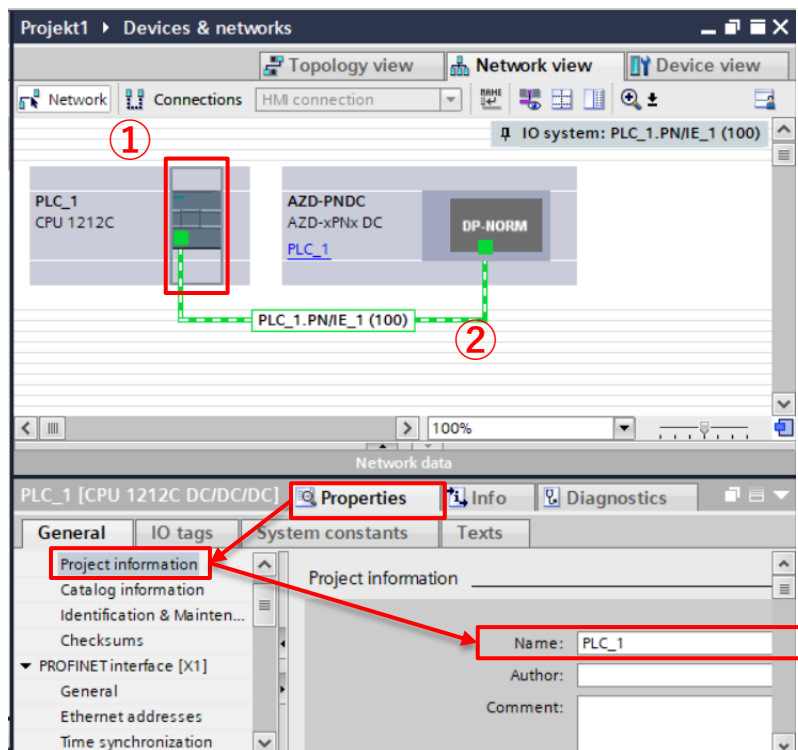
✘ Both AC and DC GSD files are installed.

Specify the driver's connection destination:

- ③ Drag a connection from the PLC “PLC_1” to the AZD-xPNx driver.
- ④ When the connection has been established, the driver AZD-xPNx is assigned to the PLC “PLC_1”.



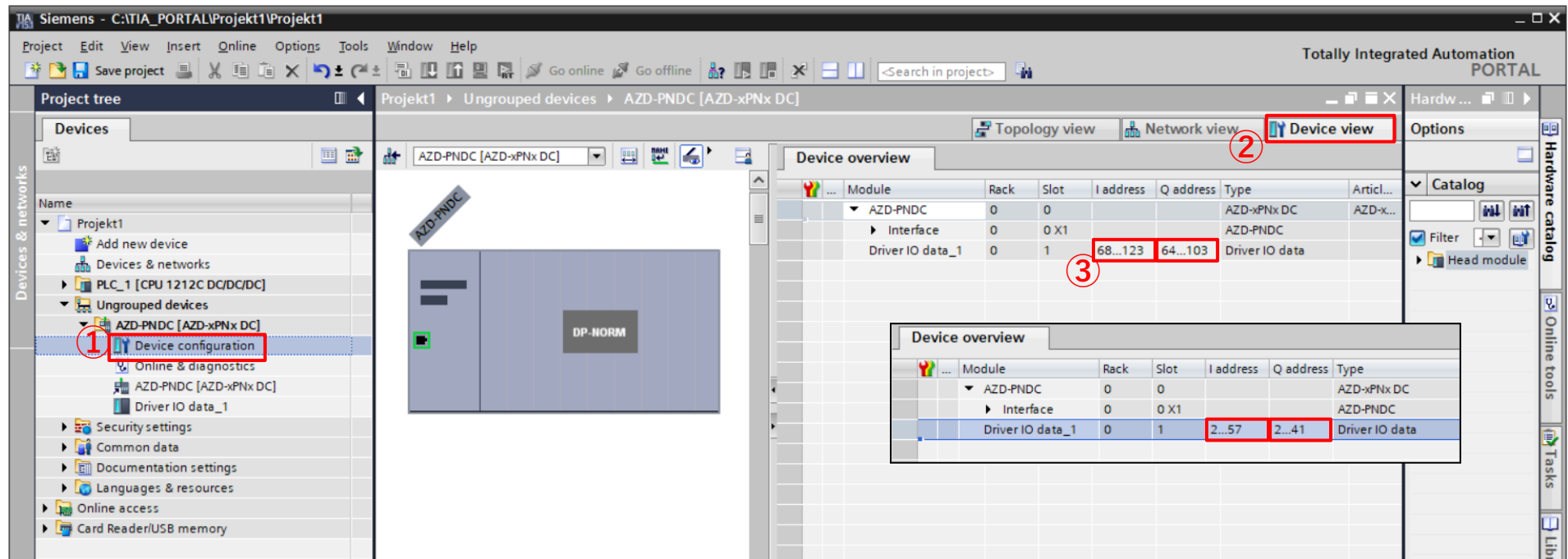
- ① Click on the PLC in the red frame.
- ② Click on [Properties> General> Project Information] and change the name to any name. “PLC_1” is assigned in this manual.
- ③ Set the IP address and the subnet mask under [PROFINET interface> Ethernet addresses]. In this manual the IP address: 192.168.0.1 and the subnet mask: 255.255.255.0 are defined. Also, change the name, IP address, and subnet mask on the driver side to match.



Parameter	PLC	Driver
Name	PLC_1	AZD-PNDC
IP address	192.168.0.1	192.168.0.2
Subnet mask	255.255.255.0	255.255.255.0

Ladder diagrams use variables, also called “tags”, to control devices. The address of the I / O device must be assigned to these tags. To do this, set the start address of the driver here:

- ① Double-click on [Ungrouped devices> AZD-PNDC> Device configuration].
- ② Display the tab [Device view> Device overview].
- ③ Check the input address (I address) and the output address (O address).
In this manual, both the I address and the O address are set to “2”.



Create a tag that will be assigned to a register address:

- ④ Double-click on [PLC tags> Add new tag table] to create a tag table and assign a name. Here: “AZD-xPN I/O Register”
- ⑤ Double-click on the created variable table to create the desired variables.

The screenshot shows the 'AZD-xPN I/O Register' configuration window. The 'Data type' is set to 'Word' and the 'Address' is '%QW2'. A dialog box is open for setting the 'Operand identifier' to 'Q'. The 'Operand type' is 'W' and the 'Address' is '2'.

Data type	Format
Bool	1 [Bit]
Word	2 [Byte]
Dword	4 [Byte]

Operand identifier	Description
Q	PLC output (Input to the driver)
I	PLC input (Output from the driver)
M	Internal PLC flag

Create the tags for the output registers:

Device overview						
Module	Rack	Slot	I address	Q address	Type	
AZD-PNDC	0	0			AZD-xPNx DC	
Interface	0	0 X1			AZD-PNDC	
Driver IO data_1	0	1	2...57	2...41	Driver IO data	

Information on the type to be set under [Data type] can be found in the following table:

2 [Byte] for “Word”

4 [Byte] for “DWord”

Byte	Size (byte)	Description
0,1	2	Remote I/O (R-IN)
2,3	2	Operation data number selection
4,5	2	Fixed I/O (IN)
6,7	2	Direct data operation operation type
8~11	4	Direct data operation position
12~15	4	Direct data operation speed
16~19	4	Direct data operation starting/changing rate
20~23	4	Direct data operation stopping deceleration
24,25	2	Direct data operation operation current
26,27	2	Direct data operation forward destination
28,29	2	Reserved
30,31	2	Read Parameter ID
32,33	2	Write request
34,35	2	Write parameter ID
36~39	4	Write data

Projekt1 > PLC_1 [CPU 1212C DC/DC/DC] > PLC tags >			
AZD-xPN I/O Register			
	Name	Data type	Address
1	RemoteIO_IN	Word	%QW2
2	OperNumSel	Word	%QW4
3	FixedIO_IN	Word	%QW6
4	DDO_Type	Word	%QW8
5	DDO_Pos	DWord	%QD10
6	DDO_Vel	DWord	%QD14
7	DDO_Acc	DWord	%QD18
8	DDO_Dec	DWord	%QD22
9	DDO_Crnt	Word	%QW26
10	DDO_Trans	Word	%QW28
11	Reserved_Q	Word	%QW30
12	ReadPrmID	Word	%QW32
13	WriteReq	Word	%QW34
14	WritePrmID	Word	%QW36
15	WriteData	DWord	%QD38

I/O Data output (Master → Driver)

Tags: Output Data

Continued on next page

Create the tags for the input registers:

The image shows a 'Device overview' table and an 'AZD-xPN I/O Register' table. Red boxes and arrows highlight specific data points. In the 'Device overview' table, the 'I address' for 'Driver IO data_1' is '2...57'. In the 'AZD-xPN I/O Register' table, 'RemoteIO_OUT' is at address '%IW2' and 'CmdPos' is at address '%ID18'. A separate table on the right lists I/O data output details.

Module	Rack	Slot	I address	Q address	Type
AZD-PNDC	0	0			AZD-xPNx DC
Interface	0	0 X1			AZD-PNDC
Driver IO data_1	0	1	2...57	...41	Driver IO data

Name	Data type	Address
RemoteIO_OUT	Word	%IW2
OperNumSel_R	Word	%IW4
FixedIO_OUT	Word	%IW6
PresentAlm	Word	%IW8
FeedbackPos	DWord	%ID10
FeedbackVel	DWord	%ID14
CmdPos	DWord	%ID18
Torque	Word	%IW22
OpCmt	Word	%IW24
Information	DWord	%ID26
Reserved_I(1)	WChar	%IW30
ReadPrmID_R	Word	%IW32
RW_Status	Word	%IW34
WritePrmID_R	Word	%IW36
ReadData	DWord	%ID38
Monitor0	DWord	%ID42
Monitor1	DWord	%ID46
Monitor2	DWord	%ID50
Monitor3	DWord	%ID54

Byte	Size (byte)	Description
0,1	2	Remote I/O (R-OUT)
2,3	2	Op.data Nr. Selection_R
4,5	2	Fixed I/O (OUT)
6,7	2	Present Alarm
8~11	4	Feedback Position
12~15	4	Feedback Speed (Hz)
16~19	4	Command Position
20,21	2	Torque monitor
22,23	2	CST operating current
24~27	4	Information
28,29	2	Reserved
30,31	2	Read parameter ID_R
32,33	2	Read/write status
34,35	2	Write parameter ID_R
36~39	4	Read data
40~43	4	Assignable monitor 0
44~47	4	Assignable monitor 1
48~51	4	Assignable monitor 2
52~55	4	Assignable monitor 3

Tags: Input Data

I/O Data output (Driver → Master)

You can also create variables bit by bit, this is useful for controlling signals:

When creating bit-by-bit variables, pay attention to the placement of the bits in the addresses.

The image shows a screenshot of the SIMATIC Manager interface. On the left, the 'AZD-xPN I/O Register' table lists various PLC tags. A red box highlights the 'FixedIO_IN' tag, which is a Word variable at address %QW6. In the center, the 'AZD-xPN I/O Bit Order' table lists bit addresses and their corresponding names and data types. A red box highlights the bit order for address %Q6.0 to %Q6.7. On the right, a detailed bit-by-bit table shows the bit addresses, bit numbers, names, and descriptions for the I/O data output (Master to Driver). A red box highlights the bit-by-bit tags for bits 0 through 15.

Byte	Bit	Name	Description
5	0	FW-JOG	Execute JOG operation in the forward direction.
	1	RV-JOG	Execute JOG operation in the reverse direction.
	2	Reserved	A value is disregarded.
	3	START	Execute stored data operation.
	4	ZHOME	Execute high-speed return-to-home operation.
6	5	STOP	Stop the motor.
	6	FREE	shut off the motor current to remove the motor excitation. In the case of an electromagnetic brake motor, the electromagnetic brake is released.
	7	ALM-RST	Reset the alarm being generated presently.
4	8	TRIG	Execute direct data operation.
	9	TRIG-MODE	Set the judgment level for the TRIG. 0: Start at ON edge 1: Start at ON level
	10	ETO-CLR	Release the ETO-mode.
	11	Reserved	A value is disregarded.
	12	FW-JOG-P	Execute inching operation in the forward dir.
	13	RV-JOG-P	Execute inching operation in the reverse dir.
	14	FW-POS	Execute continuous operation in the forward dir.
	15	RV-POS	Execute continuous operation in the reverse dir.

Register based tags

Bit-by-bit tags

I/O Data output (Master → Driver)

Define variables to control the internal PLC flags.
The following internal flag are used in the test mode.

	Name	Data type	Address	Retain	Acces...	Writa...	Visibl...
1	MI_BIT0	Bool	%MO.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	MI_BIT1	Bool	%MO.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	MI_BIT2	Bool	%MO.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	MI_BIT3	Bool	%MO.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Data type	Format
Bool	1 [Bit]
Word	2 [Byte]
Dword	4 [Byte]

Operand identifier	Description
Q	PLC output (Input to the driver)
I	PLC input (Output from the driver)
M	Internal PLC flag

Control of the motor with PROFINET communication.

1) Operation by I / O control

Control of the fixed I / O and remote I / O signals with PROFINET IO via bits.

In this manual, [FW-POS] for continuous operation and the stop signal [STOP] are controlled via the network.

Output signals can be assigned via a branch in order to display the status.

2) Operation by DDO

Control with the “Direct Data Operation” registers with PROFINET IO.

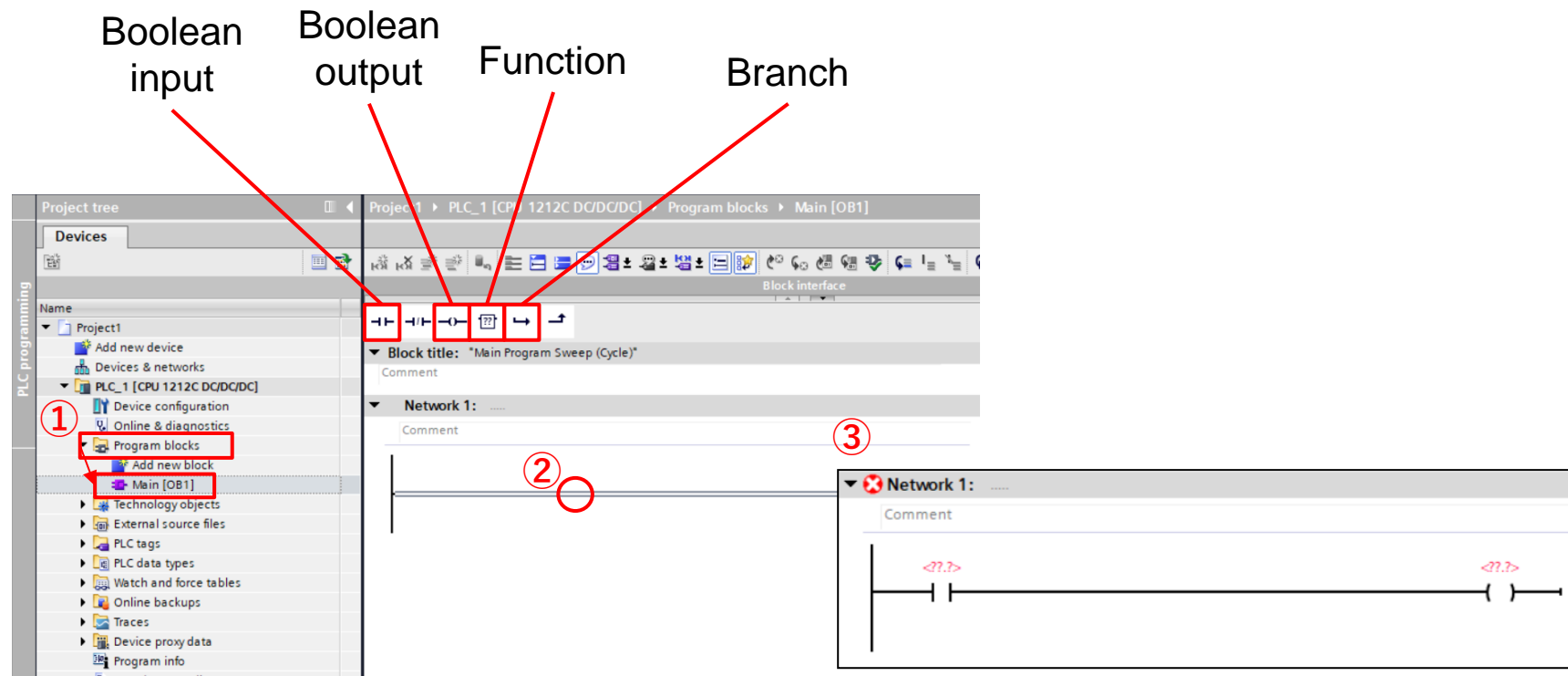
The motor is controlled by the signals [TRIG] and [TRIG-MODE].

This manual explains the process from setting the operating data to starting operation.

It is also possible to start the process just by updating a value.

1) Create a network that uses I / O functions.

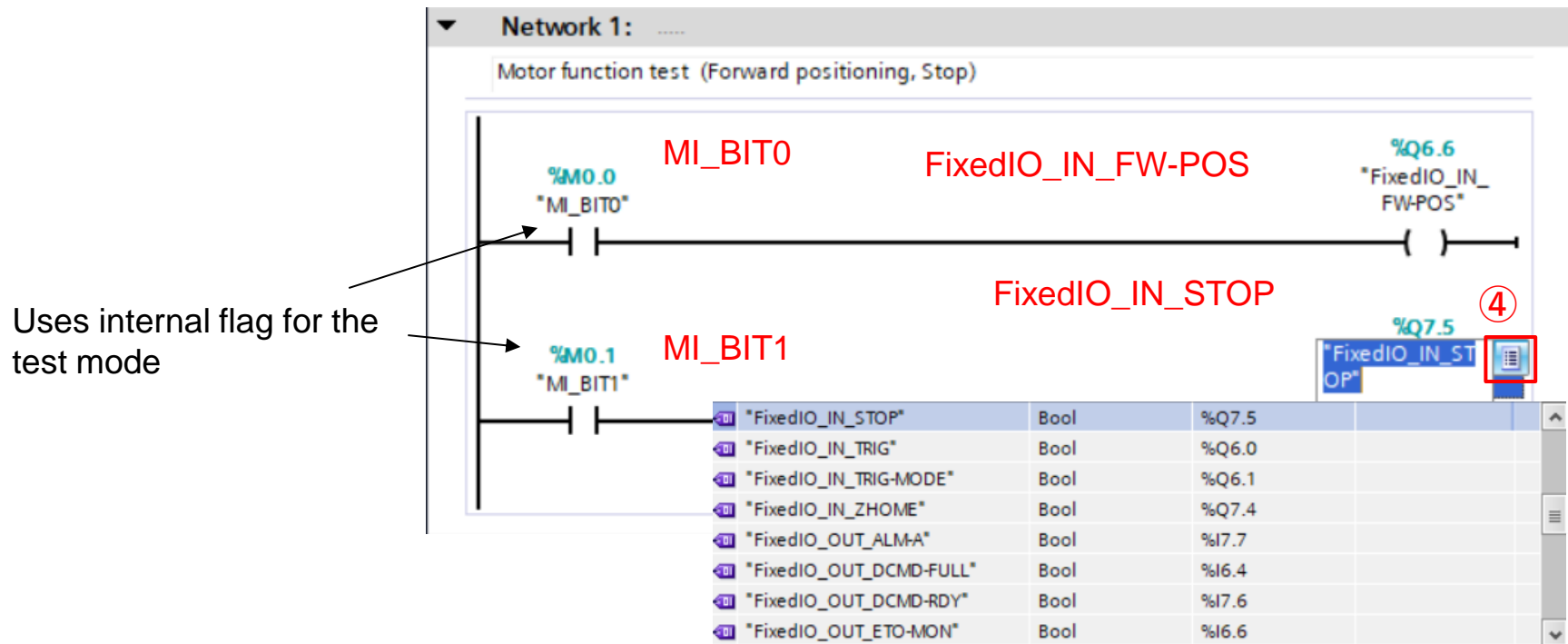
- ① Double-click on [Program blocks> Main [OB1]].
- ② Click on the point where you want to place the components in “Network 1”.
- ③ Click on the desired Boolean component to place it there.



Assign the tags created on page 19 to the branches of the ladder diagram:

- ④ Double-click on the component's <??.?> And click on the symbol displayed to show the list of variables.

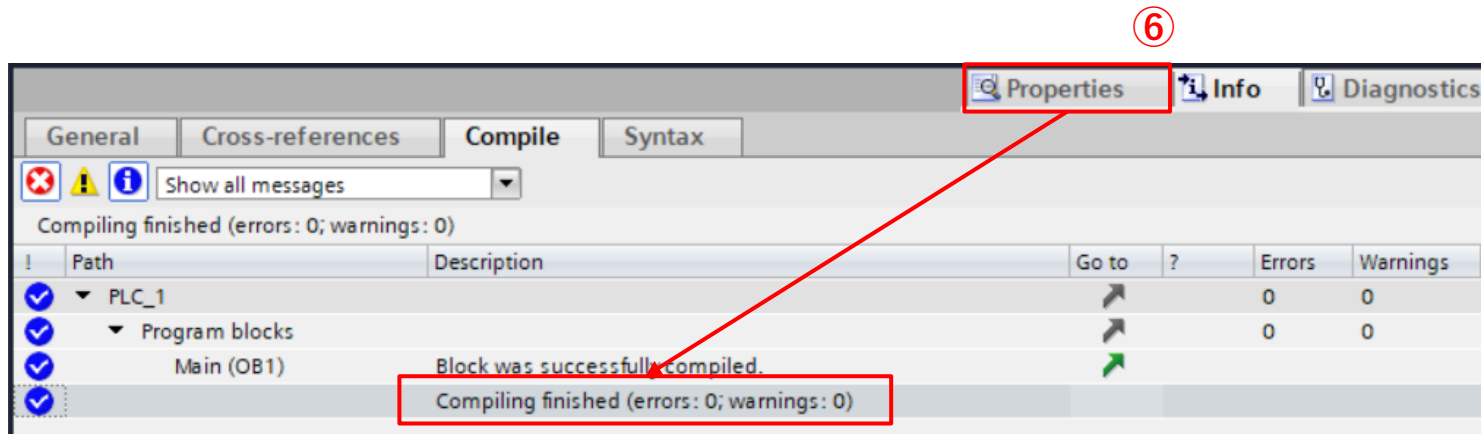
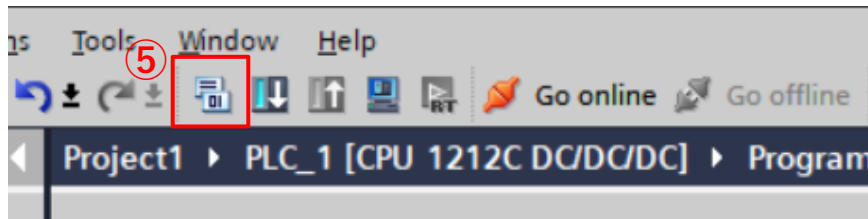
Select the tags from the list - as shown in the following figure:



See pages 16 to 20 to learn how to set tags.

Compile the created ladder diagram:

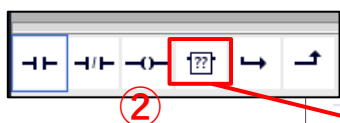
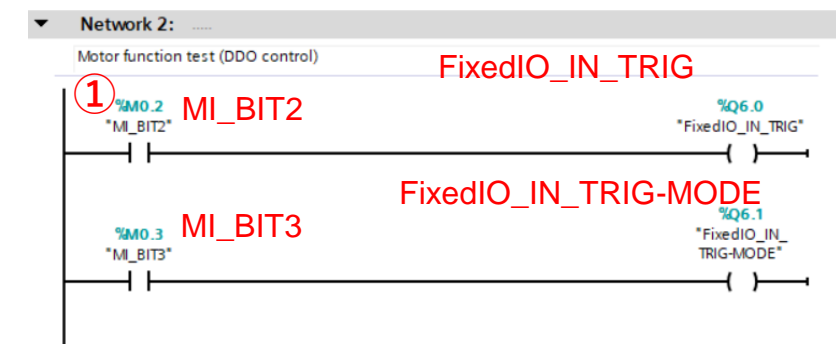
- ⑤ Click on [Compile].
- ⑥ If the compiling completes successfully, the message “Compiling finished (errors: 0; warnings: 0)” will be shown
Check the displayed content for errors.



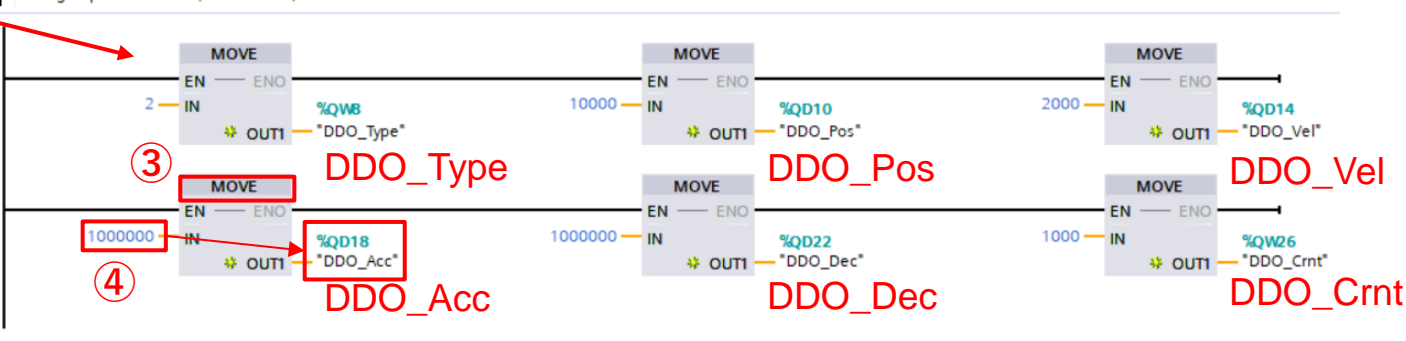
2) Create a branch for DDO operation:

- ① Create a branch in “Network 2” as in the previous example I / O branch. To set the travel data, use “MOVE” to output the input values.
- ② Click on [Empty box] to place it on the branch in “Network 3”.
- ③ Double click on the placed [Empty box] “??” and enter “MOVE”. (6 times)
- ④ Set the values and tags that correspond to the following table for the input (IN) and the output (OUT1) of each MOVE block.
- ⑤ Compile using the same procedure as on page 24.

Name	Tag(OUT1)	Value (IN)	Remarks
Operation type	DDO_Type	2	Incremental (based on FB)
Target Position	DDO_Pos	10000	[step]
Speed	DDO_Vel	2000	[Hz]
Acceleration	DDO_Acc	1000000	[0.001kHz/s]
Deceleration	DDO_Dec	1000000	[0.001kHz/s]
Operation Current	DDO_Crnt	1000	[0.1%]



Please refer to the instruction manual for more information



Configure the communication settings for the device to be used:

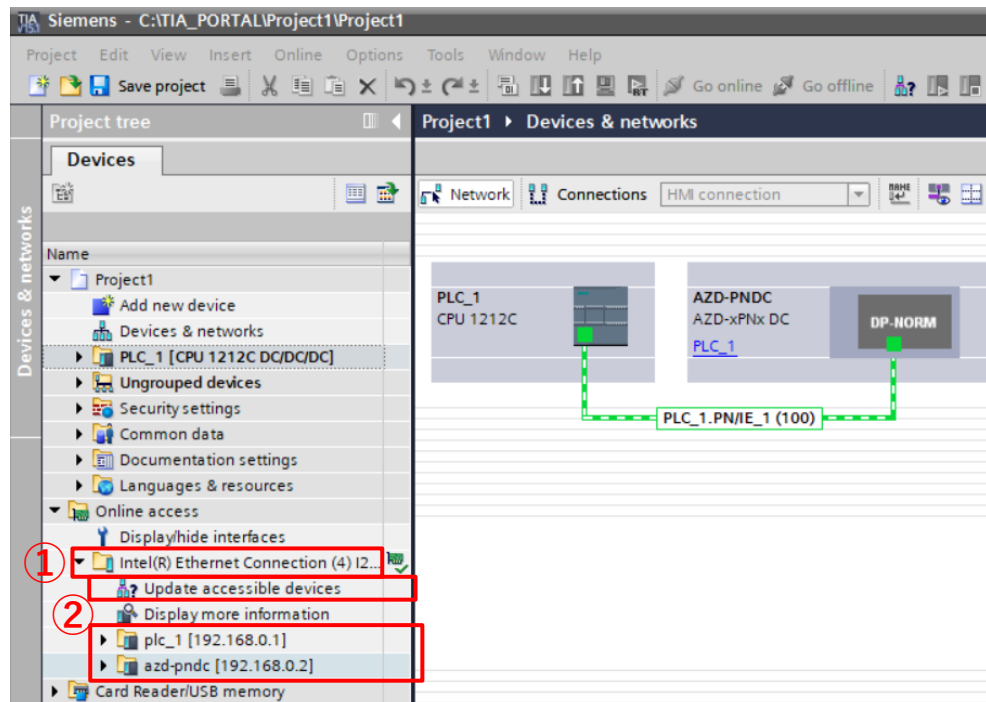
The device connected to the Ethernet cable is displayed in the menu.

- ① Open [Online access] and open the folder for the Ethernet connection that is connected to the device. In this manual, open [Intel (R) Ethernet Connection (4) I1219-LM].
- ② Double-click on [Update accessible devices] to find the detected devices.

They are displayed as [New Device [xx-xx-xx-xx-xx-xx]].

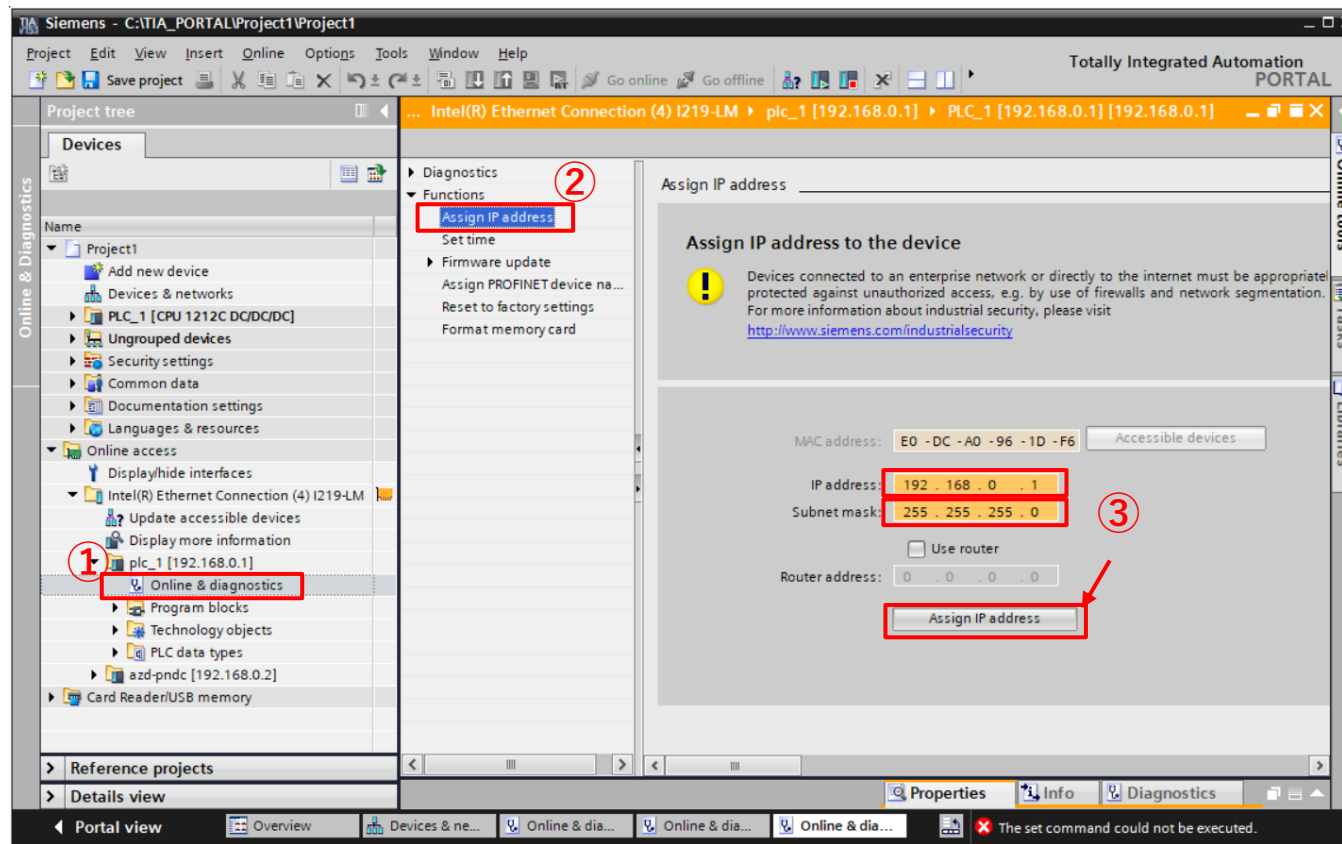
[xx -...] is the MAC address, which is different for each device.

If communication settings have already been configured, the device name and IP address are displayed.



Set the driver's IP address:

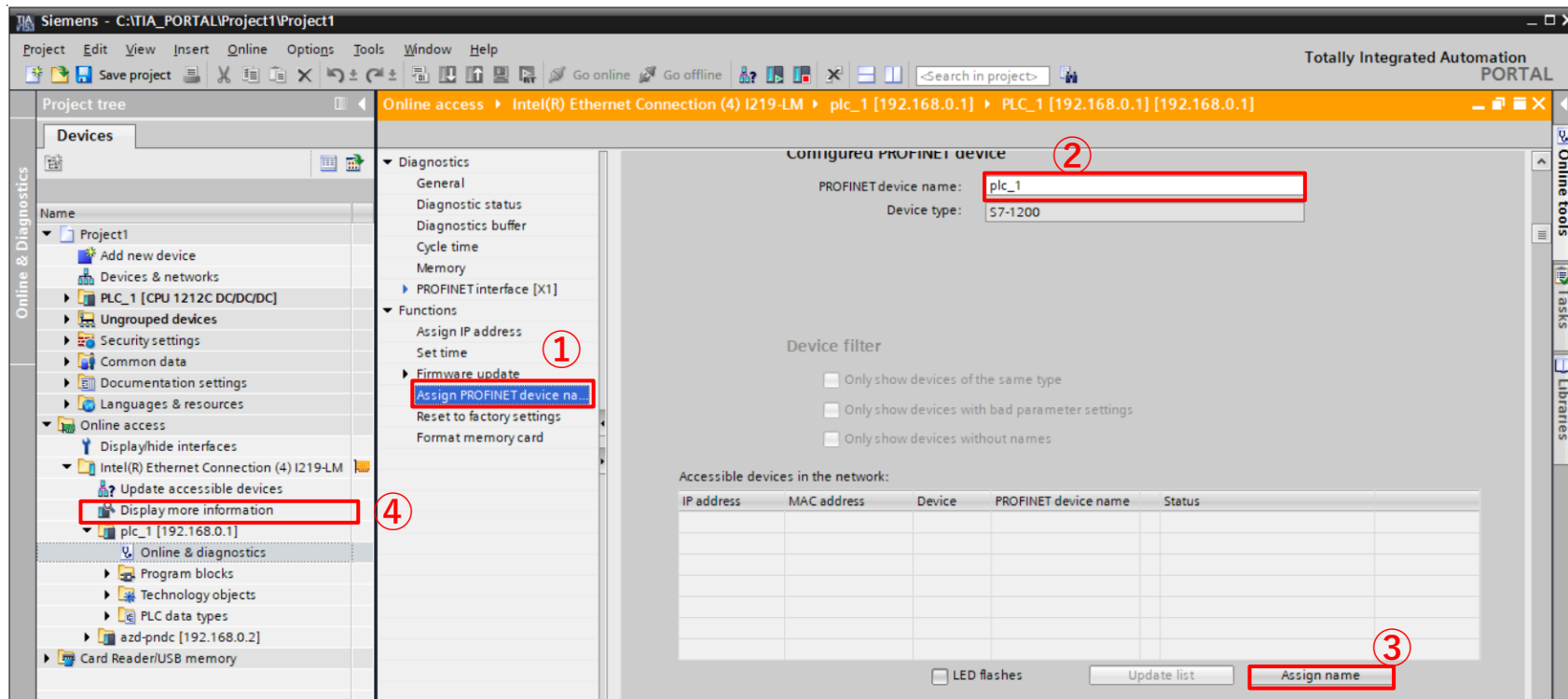
- ① Double-click on PLC (here: plc_1) and then [Device> Online & diagnostics].
- ② Click on [Functions> Assign IP address].
- ③ Specify the IP address and subnet mask specified on page 14 and click on [Assign IP address]. ❌



❌ If the IP address has already been set in the PLC, you may not be able to change it.

Set the device name:

- ① Click on [Functions> Assign PROFINET device name].
- ② Set the device name. “PROFINET device name” can only be assigned in lower case letters.
Set “PLC_1” - from page 14 - as “plc_1”.
- ③ Click on [Assign name].
- ④ Set the IP address and the device name for the driver in the same way.



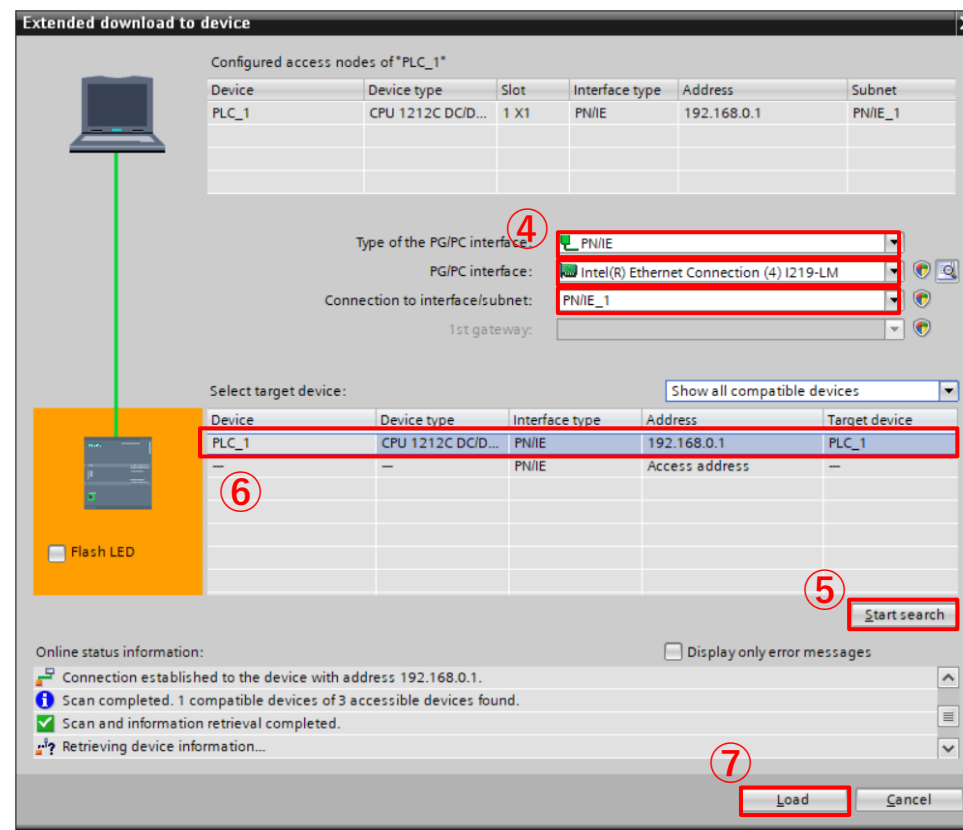
Load the created project into the PLC:

- ① Check the items to be confirmed before downloading.
- ② Click on “PLC_1” to download it.
- ③ Click on [Download to device].

The screenshot shows the Siemens TIA Portal interface. On the left, the 'Project tree' shows the 'Devices & networks' folder expanded, with 'PLC_1 [CPU 1212C DC/DC/DC]' selected and highlighted by a red box and a circled '2'. The main workspace shows a network diagram with a 'PLC_1 CPU 1212C' device connected to an 'AZD-PNDC' device via a 'PLC_1.PN/IE_1 (100)' connection. A red box and circled '1' are placed over the PLC_1 device. In the top toolbar, the 'Download to device' icon (a downward arrow) is highlighted with a red box and a circled '3'.

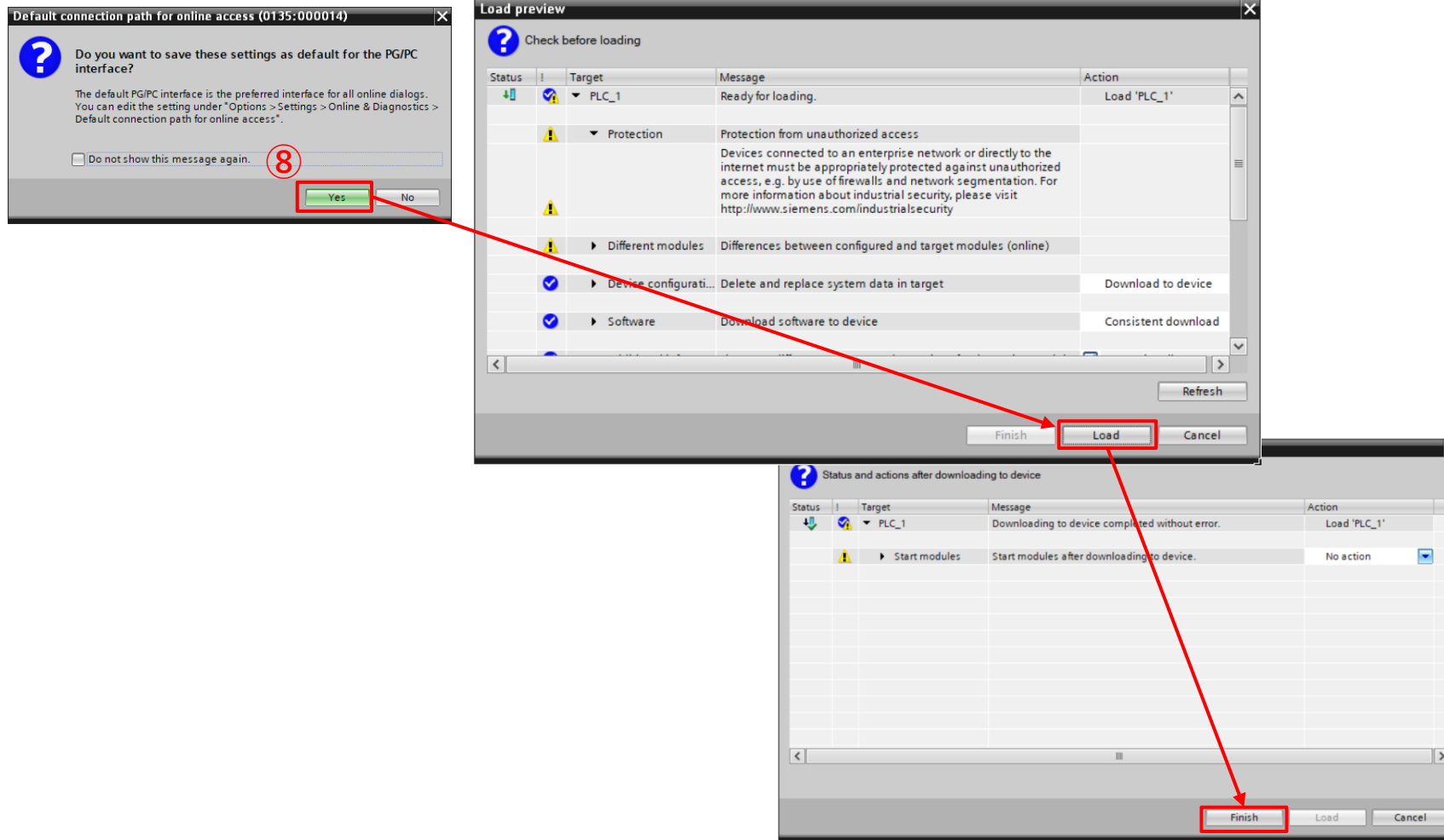
Checklist	Ref.
Are the IP addresses of the PC, PLC and driver set to 192.168.0.x?	P.6-7 P.14,27
Have the correct connections been used for the devices? Be careful with PLCs with multiple connections.	P.13
Do the PROFINET device names specified in the project and on the devices match?	P.14,28

- ④ The [Extended download] window opens.
Please set each item using the following table.
- ⑤ Click on [Start Search].
- ⑥ Select the target PLC for loading.
- ⑦ Click on [Load].
The confirmation screen will be displayed.



Settings	Set values
[Type of PG/PC interface]	PN/IE
[PG/PC interface]	Please select the interface according to your environment This manual uses [Intel (R) Ethernet Connection I219-LM].
[Connection to Interface/Subnet]	PN / IE_1 Select the communication name connected on page 13.

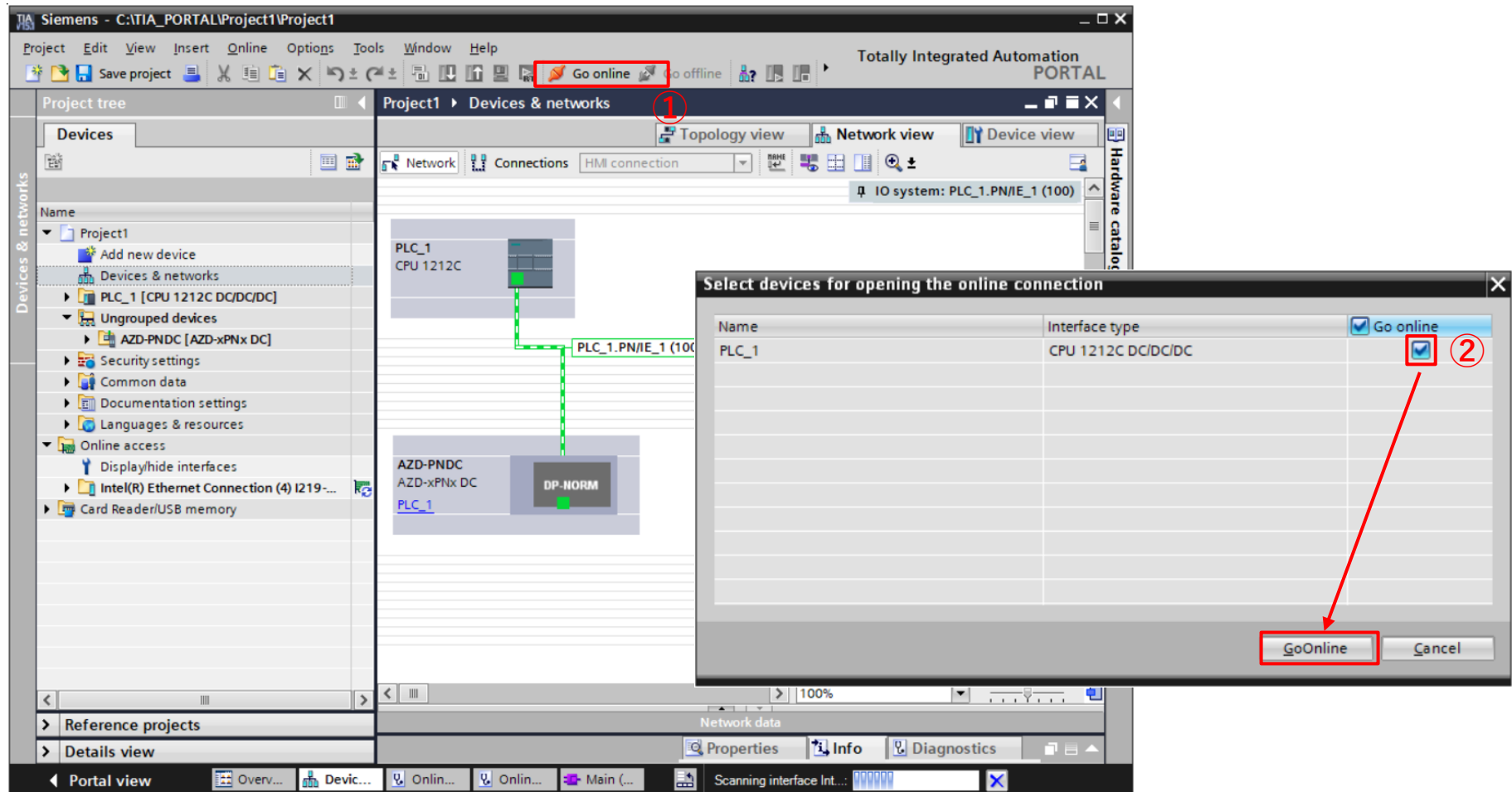
⑧ Click on the confirmation screen as shown below to complete the download.



The project download is now complete.

Establish an online connection with the PLC for test operation:

- ① Click on [Go online].
- ② Check if the device is online and click [GoOnline].

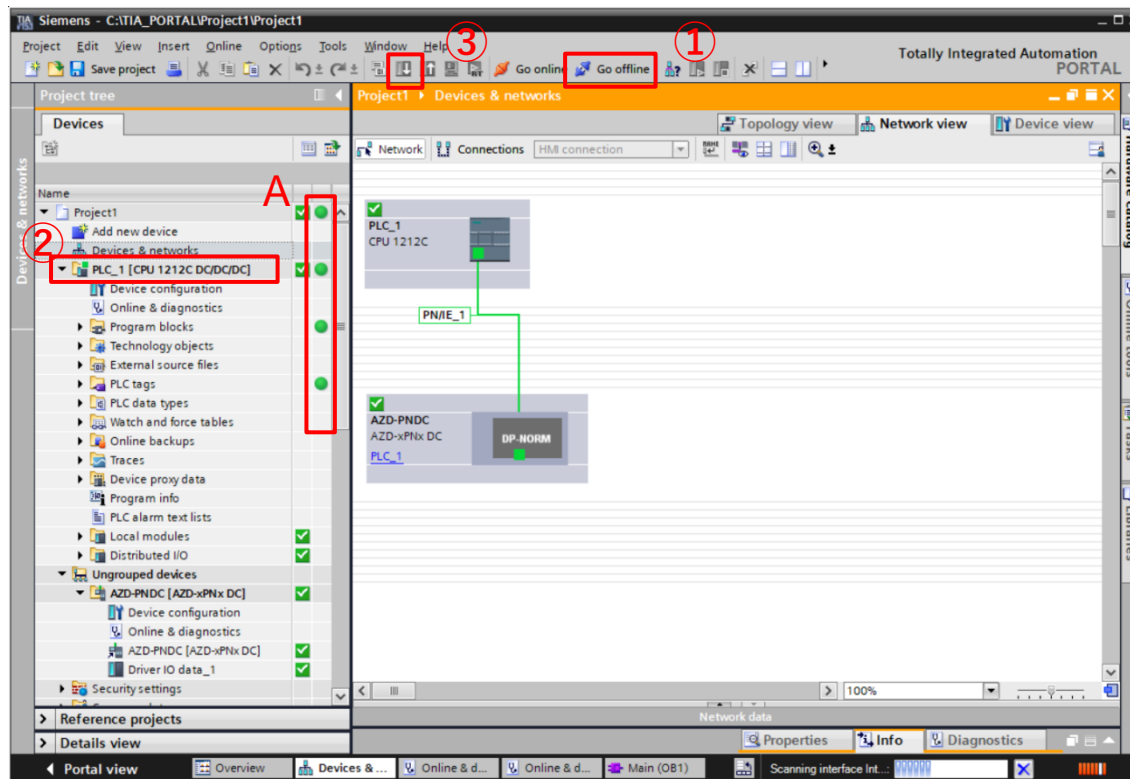


When you go online the title will turn orange.

If the symbol in frame “A” is green, the TIA Portal project and the PLC settings will match.

If the symbol is not green, carry out the following steps to match the settings in the project with the PLC:

- ① Click on [Go offline].
- ② Click on [PLC_1 [CPU 1212C DC / DC / DC]] to select it.
- ③ Click [Download to device] to download. (Same procedure as p. 29 ~ 31)



Set the ladder diagram screen to monitor state in order to operate the program:

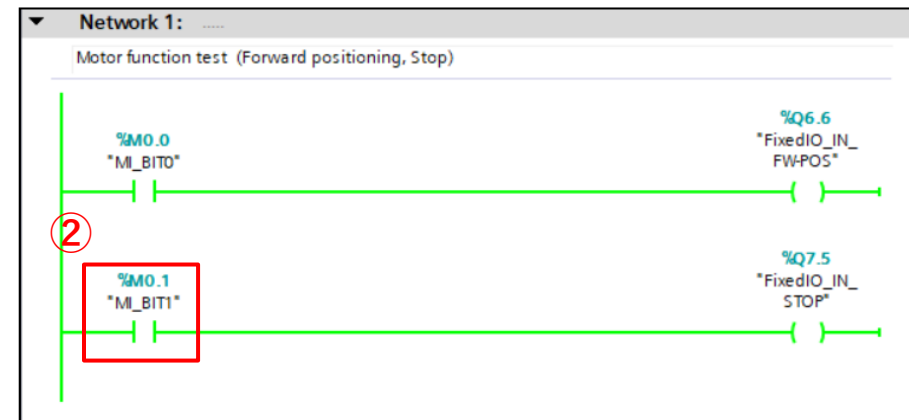
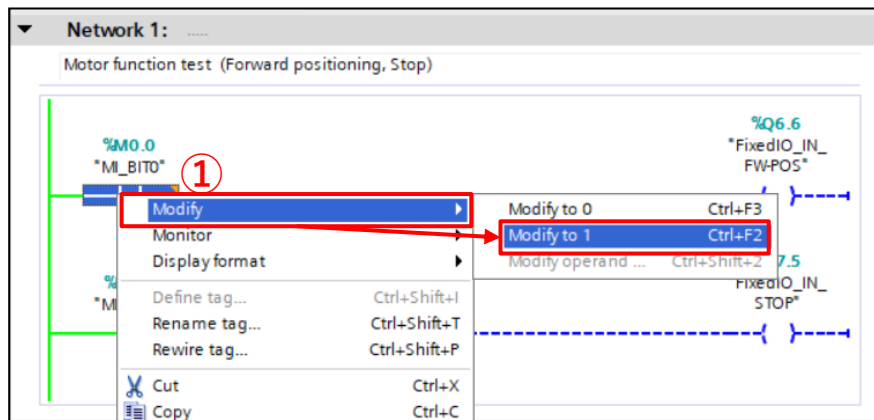
- ① By default, the PLC is not in the RUN state
Click [Start CPU], then click [OK] on the warning screen.
- ② Click the [Monitoring on / off] symbol to start monitoring.

The screenshot displays the Siemens TIA Portal interface for a PLC project. The top toolbar contains various icons, with a red circle '1' highlighting the 'Start CPU' icon. A 'Run' dialog box is open, asking 'Are you sure you want to change the CPU to RUN mode?' with 'OK' and 'Cancel' buttons. The main editor shows a ladder logic diagram with two networks. The bottom toolbar contains various icons, with a red circle '2' highlighting the 'Monitoring on / off' icon. The ladder logic diagram shows two networks. Network 1: Motor function test (Forward positioning, Stop) with inputs %M0.0 and %M0.1. Network 2: Motor function test (DDO control) with inputs %M0.2 and %M0.1. The outputs are %Q6.6 (FixedIO_IN_FW-POS) and %Q7.5 (FixedIO_IN_STOP).

Check the operation of the motor with the ladder diagram programme created on p.22-24.

✘ Please check the security of your ambient in advance. The motor turns.

- ① Right-click on [MI_BIT0] and click on [Modify> Modify to 1]. [FixedIO_IN_FW-POS] is switched on. As a result, the FW-POS signal is set in the driver and the motor rotates continuously in the FWD direction.
- ② When MI_BIT1 is turned on in the same way, [FixedIO_IN_STOP] is turned on. As a result, the STOP signal is input to the driver and the continuous operation is stopped.
- ③ After you have checked the operation of the motor, right-click on [MI_BIT0] and [MI_BIT1]. Select [Modify> Modify to 0] to turn off the signals in the driver.

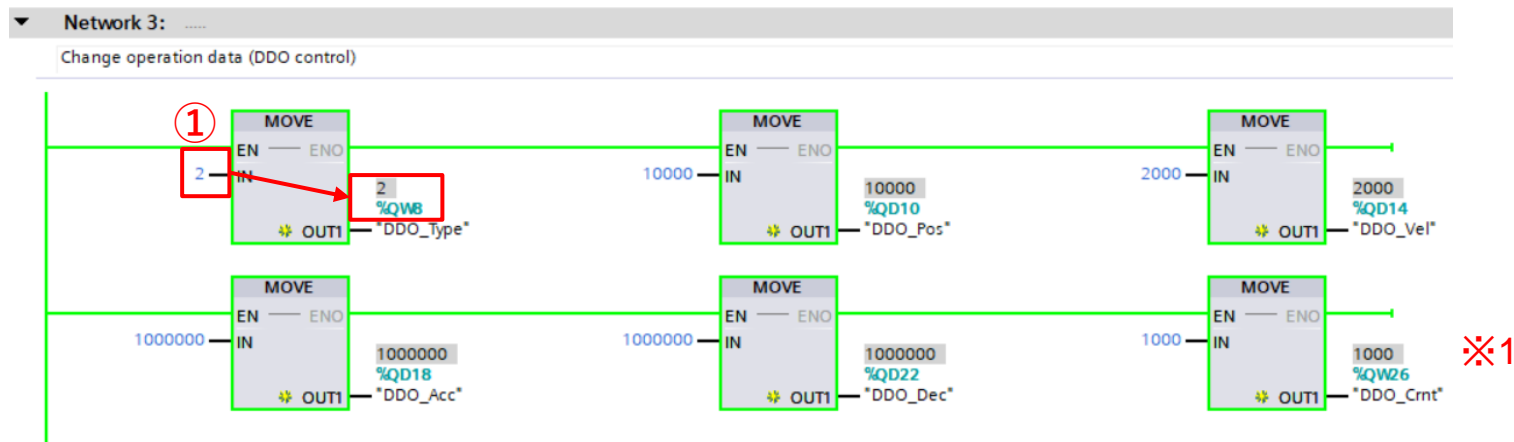


The checking of the motor operation by I/O branch is now finished.

Direct data operation is performed using the ladder diagram created on page 25.

※ Please check the security of your ambient in advance. The motor turns.

- ① Make sure that the [OUT1] value of each MOVE corresponds to the value of IN.
At this point the value for the driver's direct data operation is set.
- ② If [MI_BIT2] is switched on, [FixedIO_IN_TRIG] is switched on and DDO operation is started.



※1 The representation of the output value OUT1 is set to a hexadecimal number by default.

Change representation to decimal:

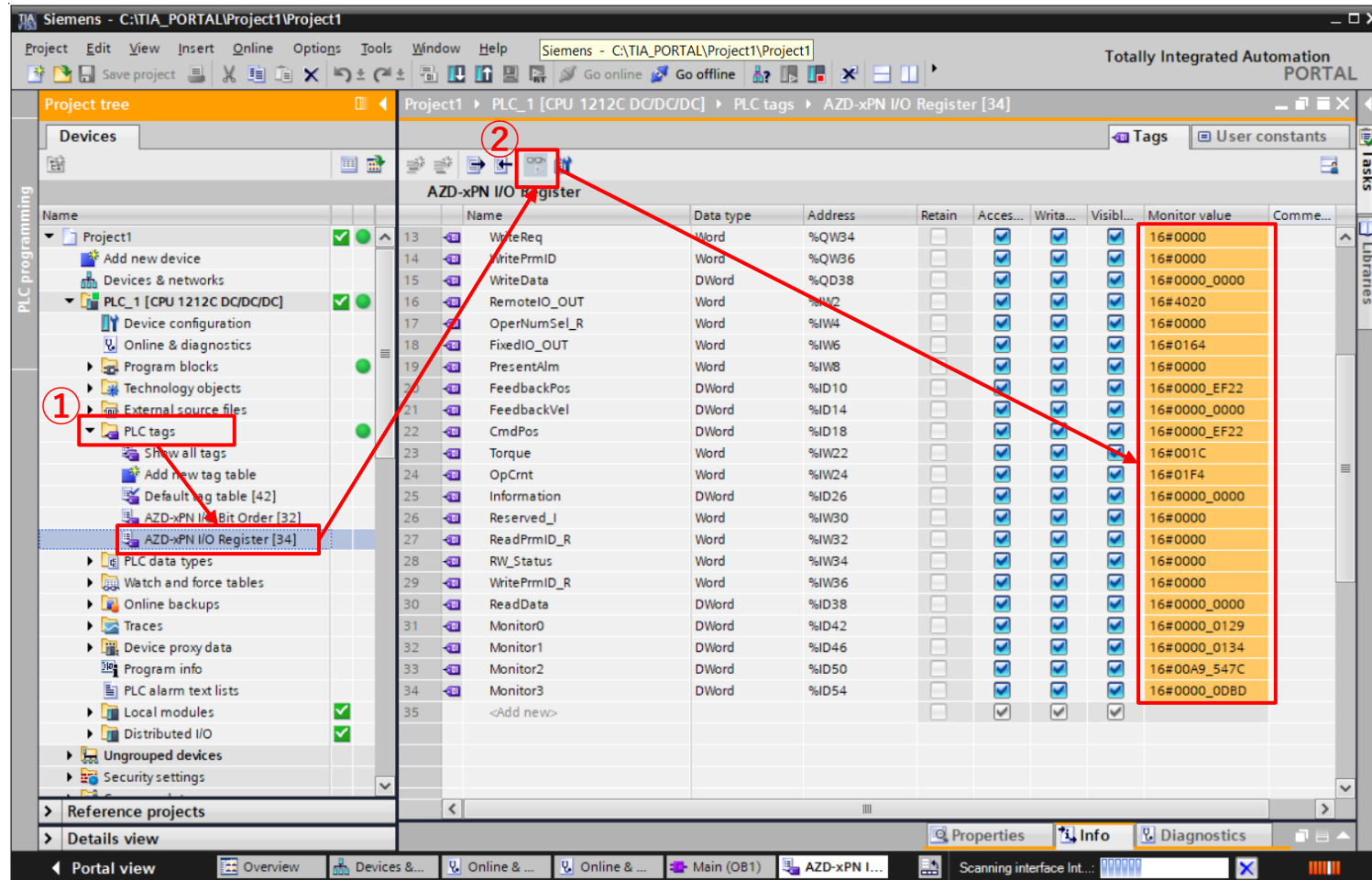
- 1) Right-click the output value
- 2) Click on [Display format> Block> Decimal]

※2 The trigger mode can be set by switching [MI_BIT3] on and off. In this manual it is set to OFF (0). When switched off, DDO operation begins on the positive edge of [FixedIO_IN_TRIG].

Please refer to the instruction manual for more information.

If you want to monitor the driver value, you can check it by following the steps below:

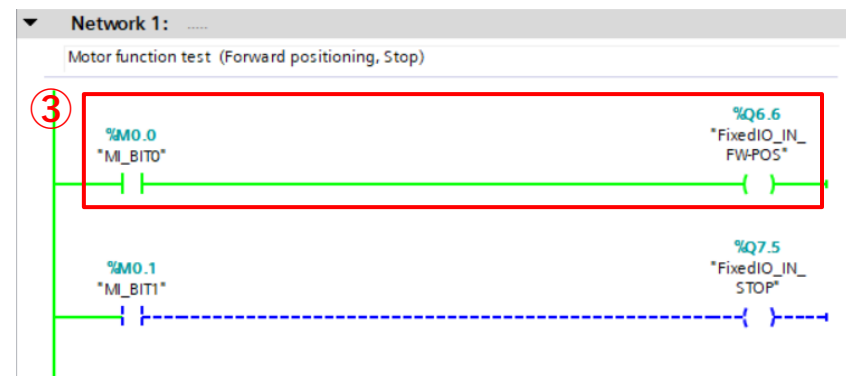
- ① Double-click on [PLC tags> AZD-xPN I/O-Register] to open it.
- ② Click [Monitor all] to check the register values shown.



- ③ Rotate the motor with the ladder diagram:
The value of FeedbackPos (actual position) is increased.

By using the appropriate internal flags in the ladder diagram.

View of all variables in the corresponding window.



17		FixedIO_OUT	Word	%IW6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	16#0440
18		PresentAlm	Word	%IW8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	16#0000
19		FeedbackPos	DWord	%ID10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	16#0004_F473
20		FeedbackVel	DWord	%ID14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	16#0000_0000
21		CmdPos	DWord	%ID18	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	16#0004_F473

324723 dec



17		FixedIO_OUT	Word	%IW6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	16#2400
18		PresentAlm	Word	%IW8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	16#0000
19		FeedbackPos	DWord	%ID10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	16#0005_1EAD
20		FeedbackVel	DWord	%ID14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	16#0000_0000
21		CmdPos	DWord	%ID18	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	16#0005_1EAD

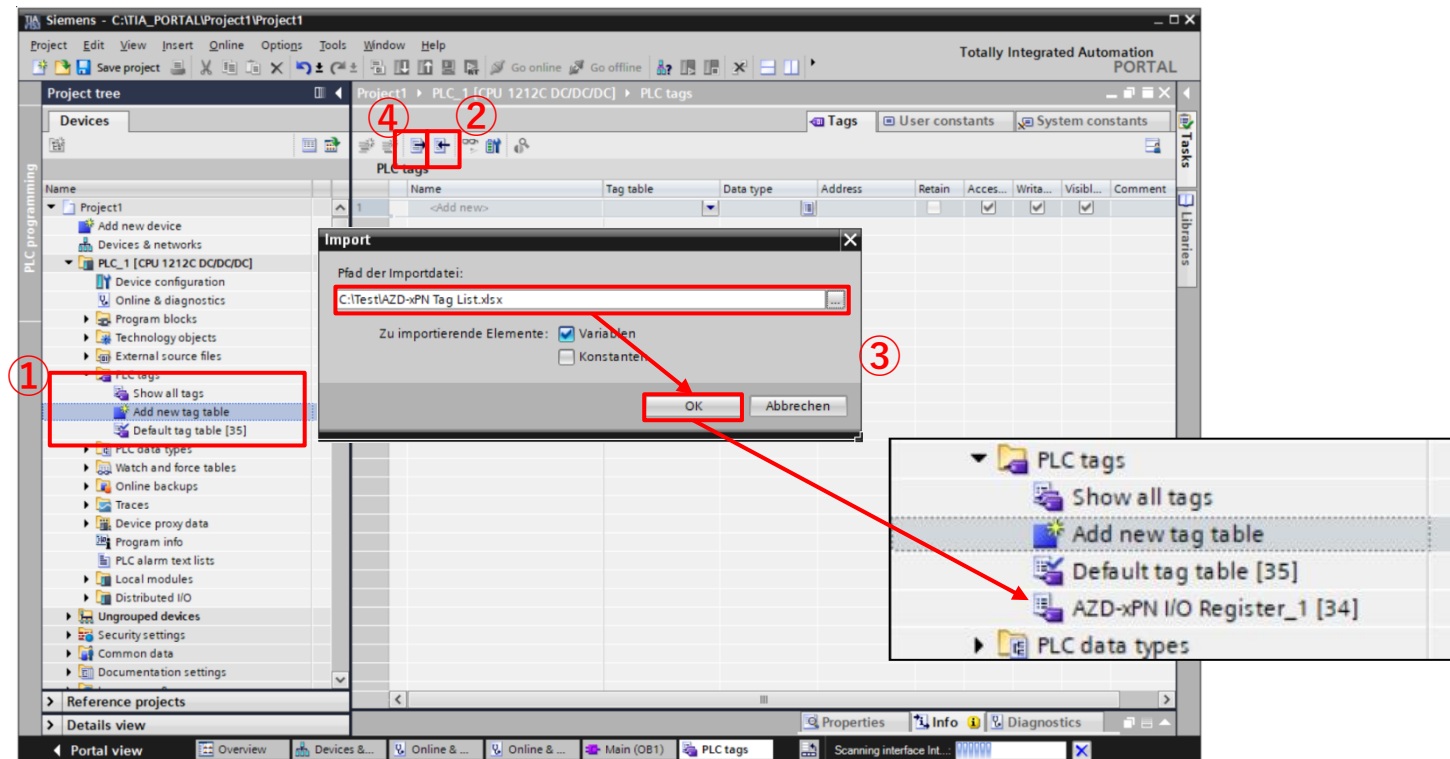
335533 dec

A created variable table can be imported or exported:

- ① Importing a previously generated variable table.
For this manual [PLC tags> Add new tag table].
- ② Click on [Import].
- ③ Select the file to be imported and click on [OK].

The imported tag file is displayed under [PLC tags]. This manual reads the export data from the tag table created on page 19.

Click ④ to export.



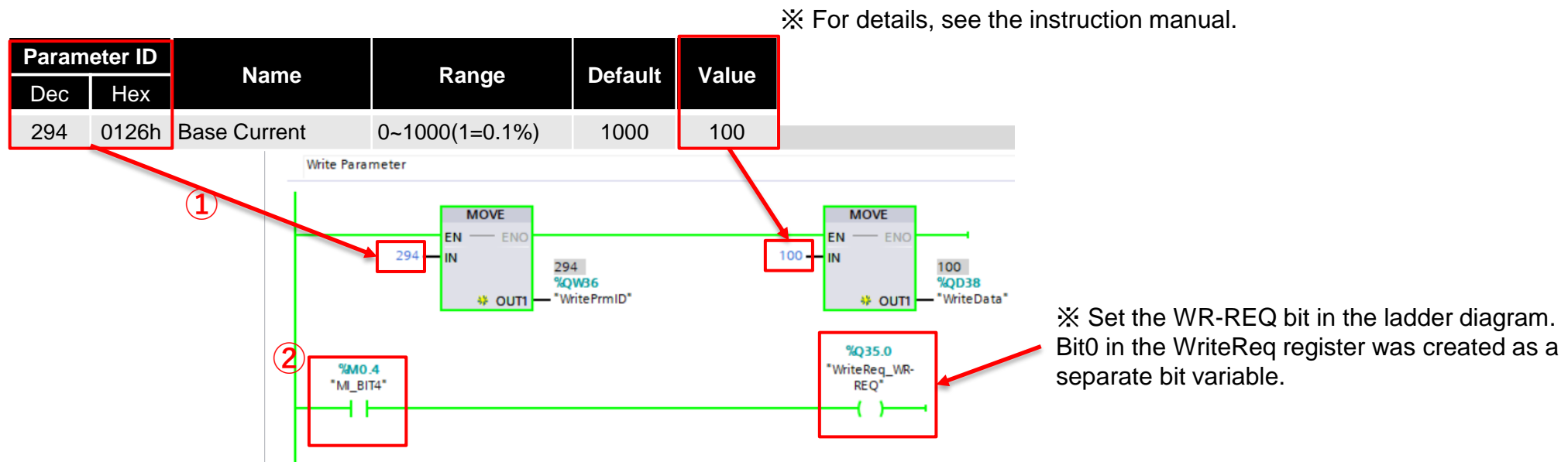
It is possible to write any parameters in the driver via PROFINET communication. The following PROFINET IO registers must be used to write a parameter:

Used Bytes	Size (Byte)	Name	Comment
32,33	2	WriteReq	Write request WR-REQ ON.
34,35	2	WritePrmID	Address of the register to be written
36~39	4	WriteData	Value to be written into the register

Example for changing the base current (parameter ID: 294) from 100.0 [%] to 10.0 [%].

- ① Create a MOVE component to transfer the value and a branch that activates the write request.
- ② Activate [Monitoring] and switch on [MI_BIT4] to write the parameters.

The successful execution of the command can be checked with the help of the monitors.



It is possible to read any parameters via PROFINET communication. The following PROFINET IO registers must be used to read a parameter.

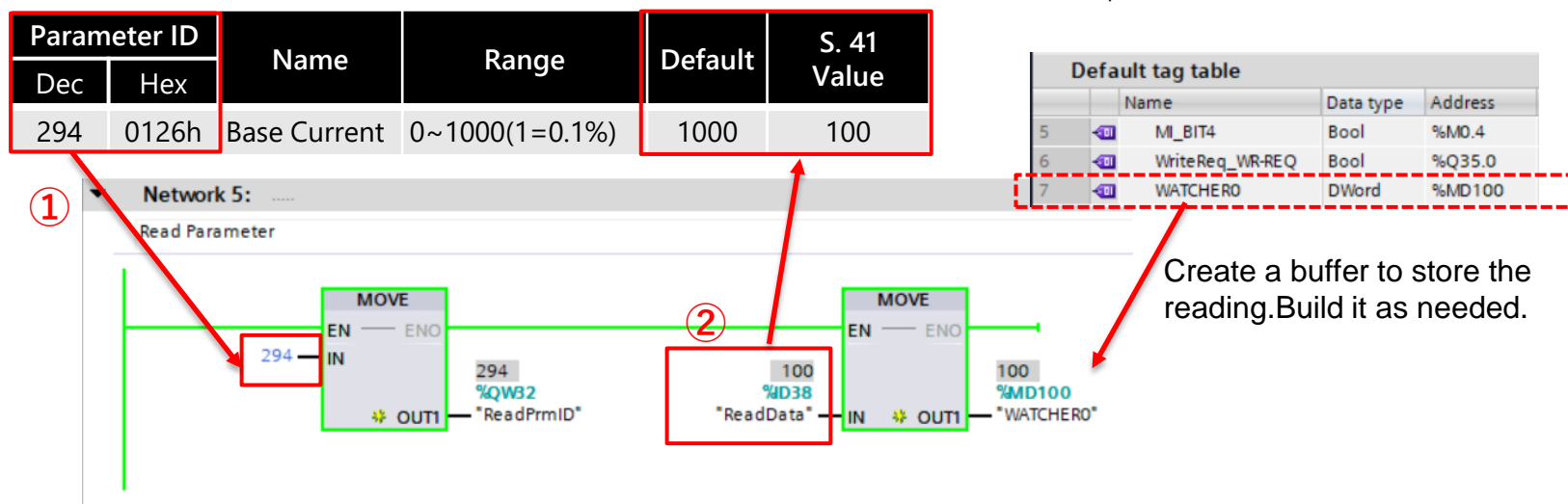
Direction	Bytes in use	Size (Byte)	Name	Remarks
Ausgabe (Host → Treiber)	30, 31	2	ReadPrmID	Address of the register to be read
Eingabe (Treiber → Host)	36~39	4	ReadData	Value that was read out.

Reading the base current (Base Current - Parameter-ID: 294).

- ① Create a branch in which the parameter ID to be read and the value are temporarily stored.
- ② If [Monitoring] is switched on, you can check whether the current value in ReadData is read correctly. "1000" is read before the change, when the parameter - as shown on page 40 – has been changed, "100" is read.

The successful execution of the command can be checked with the help of the monitors.

※ For details, see the instruction manual.



History	Content
March 2021	Newly created

Hint:

We are available for you: 00800 22 55 66 22

Mon-Thu from 8:00 a.m. to 4:30 p.m., Friday: 8:00 a.m. to 3:00 p.m.

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