# How can I go online with an existing STARTER project, via USB interface?

SINAMICS G120 / G120D / G120P and G120C from FW V4.4

FAQ • März FW V4.4



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#### Caution

The functions and solutions described in this article confine themselves to the realization of the automation task predominantly. Please take into account furthermore that corresponding protective measures have to be taken up in the context of Industrial Security when connecting your equipment to other parts of the plant, the enterprise network or the Internet. Further information can be found under the Content-ID 50203404.

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#### Question

How can I go online with an existing SINAMICS G120 / G120C STARTER project, via USB interface?

#### Answer

The instructions and notes listed in this document provide a detailed answer to this question.

NOTE

This FAQ applies only to the SINAMICS G120/G120D/G120P Control Units with "-2" in the product name and SINAMICS G120C inverters.

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## 1 Online with an existing STARTER project, via USB interface

In order to load parameter settings saved in an existing STARTER project into another SINAMICS G120 (e.g. for series commissioning), it is necessary to go online with this STARTER project.

If the online communication with a SINAMICS G120C ( $\geq$ FW4.4) or SINAMICS G120 with CU2xy-2 (CU230P-2, CU240B-2, CU240E-2  $\geq$ FW4.4) is established for the first time via a USB interface, then the serial number of the frequency converter and/or the Control Unit is saved in the project.

In order to now be able to go online with the STARTER project with a new SINAMICS G120C or Control Unit CU2xy-2 of the same type via the USB interface, the new frequency converter with the associated serial number must now be added to the project and subsequently saved.

The detailed procedure is as follows:

#### 1.1 Check and, if required, adapt the interface settings

- 1. In the STARTER menu, select "Options -> Set PG/PC Interface...".
- 2. As Access Point of the Application, select "DEVICE (STARTER, SCOUT)".
- 3. As Interface Parameter Assignment Used, select the "S7USB" interface.
- 4. Acknowledge the settings with "OK".

Set PG/PC Interface	
Access Path LLDP / DCP	
Access Point of the Application: DEVICE (STARTER, SCOUT)> S7USB	
(Alternative access )	2)
Interface Parameter Assignment Used:       S7USB     Properties	Ĩ
Image: PLCSIM(MPI)     Image: PLCSIM(PR0FIBUS)     Image: PLCSIM(TCP/IP)     Image: PLCSIM(TCP/IP)	
S7USB network) Interfaces Add/Remove: (3) Select	
(4) Cancel Help	

Figure 1-1 Set PG/PC interface

## 1.2 Select the target device with which you wish to go online.

- 1. In the STARTER menu, select "Target system -> Select target devices...".
- 2. Set the checkbox for the frequency converter, with which you wish to go online.
- 3. Set the point to the access point **"DEVICE"**.
- 4. Acknowledge the settings with "OK".

arget Device Selection	<u>×</u>
Devices that go online with "Connect to selected target devi	ices":
Target device	Access point
G120_CU240E_2_DP_F	
(2)	► (3
· · · · · · · · · · · · · · · · · · ·	
Select all Deselect all	All S70NLINE All Device
Establish state	
Devices not supported by STABTER	
(4)	
OK Cancel	Help

Figure 1-2 Target Device Selection

#### **1.3** Search for nodes (participants) that can be accessed

- 1. In STARTER, click on the button B "Accessible nodes".
- 2. After a device has been found and successfully identified (serial number, type

and version are displayed), click on the **Connect to selected target devices**" button. The **"Assign Target Devices**" window then opens.

🟁 STARTER - CU2xy_2_USB - [Accessible nodes - S7USB]						
Project Edit Target system View Options Window Help						
	$(2) \qquad (1)$					
×						
CU2Xy_2_USB Insert single drive unit	G120_CU240E_2_DP_F (Serial number = XAB621-003517, type = SINAMICS CU240E-2 DP F V4.4)					
□-1 G120_CU240E_2_DP_F						
Configure drive unit						
Control_Unit						
> Expert list						
🛛 🔆 Drive navigator						
Seterate the second						
· · · · · · · · · · · · · · · · · · ·						
Messages and monitoring  Technology controller						
	Access point DEVICE (STARTER, SCOUT) Access point					
SINAMICS LIBRARIES	Interface parameterization used: \$71158					
	IP address of the sought node:					
	Do you want to accept the selected drive units into the project?					
	Accept Select drive units Update Close Help					
Project						
Level Message						
Information						
Information G120_02476_2.0P_F Uplade completed						
Information Project successfully loaded to the PG						
	[3]					
Target system output						
Press F1 to open Help display.	CP5611(PROFIBUS) / S7U5B Offline mode					

#### 1.4 Assign Target Devices:

- 1. In the top left-hand part of the window, under **"Unassigned devices"**, select a device included in the project, with which you wish to establish an online connection.
- 2. In the bottom left-hand part of the window, under **"Unassigned devices"**, select the device found via "Accessible nodes".
- 3. Click on the "Arrow to the right" button. A new assignment of the configured device to the device available online is displayed in the right-hand part of the window under **"Assigned devices"**.
- 4. Click on the button "Connect to assigned devices".

Jnassigned devices	ſ	Assigned devices	
∃-∰ CU2xy_2_USB		Target device in the project	Accessible nodes
		[G120_C0240E_2_DP_F	G12U_CU24UE_2_DP_F (Sen
►(1)			
		(3)	
(2)			
		<u> </u>	
Current preselection			
Current project:		(4)	
Accessible nodes:			
Connect to essimed	l douisos		Halo

Figure 1-4 Assign Target Devices

#### 1.5 Online Mode

An online connection is established to the assigned device.

TARTER CUDING DUCD EC100 CUD405 0		s. It., s.7				
Project Edit Target system View Ontions W	_orr.control_onic - expen /indow Help	c liscj				
		ی ایک اعد ا				
						n [/+  ==   ==
×						
E-A CU2xy_2_USB	. <u>E 🐸 🖶 </u>		💌 🌆 📔 🗡 🔛 📩 hexadecimal			
- insert single drive unit	Expert list					
G120_CU240E_2_DP_F		Data Parameter tex	Online value Control, Unit	Unit	Modifiable to	Acces
Control_Unit	All			All 🔻	Al	
> Expert list	1 r2	Drive operati	[31] Ready for switching on - set "ON/OFF1" = "0/1			2
W Drive navigator	2 p3	Access level	[3] Expert	_	Operation	1
- S- Inputs/outputs	3 p4	Display filter	[0] All parameters	8	Operation	1
🖅 ≫ Setpoint channel	4 p10	Drive commis	[0] Ready		Ready to run	1
⊕ ≫ Open-loop/closed-loop control	5 p14	Buffer memor	[0] Save in a non-volatile fashion (RAM)	_	Operation	3
⊕ → Functions	6 p15	Macro drive u	12.) Standard I/O with AS	_	Commissioning (P10=1)	1
Messages and monitoring	7 ria 8 r20	Control Unit FI	4402316	rom		3
Commissioning	9 r21	CO: Actual s	0.0	rom		2
Communication	10 r22	Speed actual	0.0	rpm		3
Diagnostics	11 r24	Output frequ	0.0	Hz		3
	12 r25	CO: Output v	0.0	Vrms		2
E 📄 SINAMICS LIBRARIES	13 r26	CO: DC link v	638.4	V		2
MONITOR	14 r27	CO: Absolute	0.00	Arms		2
	15 r31	Actual torque	0.00	Nm		2
	15 732	CO: Active p	200	KVV 96		2
	18 r35	CO: Motor dtill	200	70 PC		2
	19 r36	CO: Power u	0.0	%		3 _1
	4				-	
Project	🖀 Control_Unit					
×						1
Device Op	erating mode					
G120_CU240E_2_DP_F.Control_Unit Rev	ady for switching on - set "ON/I	DFF1'' = ''0/1'' (p0840)				
Alarms Target system output Load t	o PG output 🍕 Diagnostics	overview				
Press F1 to open Help display.		CP5611(PR	OFIBUS) / S7USB Online mode			11.

#### Figure 1-5 Online mode

The procedure required to go online with the STARTER via the USB interface is described in the operating instructions for the corresponding frequency converter in the Chapter "Commissioning with STARTER". When doing this, take into account the firmware version of the frequency converter or the Control Unit.

Link: http://support.automation.siemens.com/WW/view/en/30563628/133300