

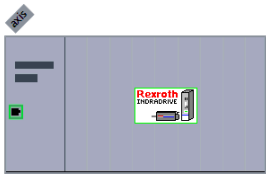
EN-Profinet IndraDrive (TIA FB's) Quickstart

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Version:	V1.2.1

DE-S7Profinet IndraDrive

General important hint for Profinet with IndraDrive:

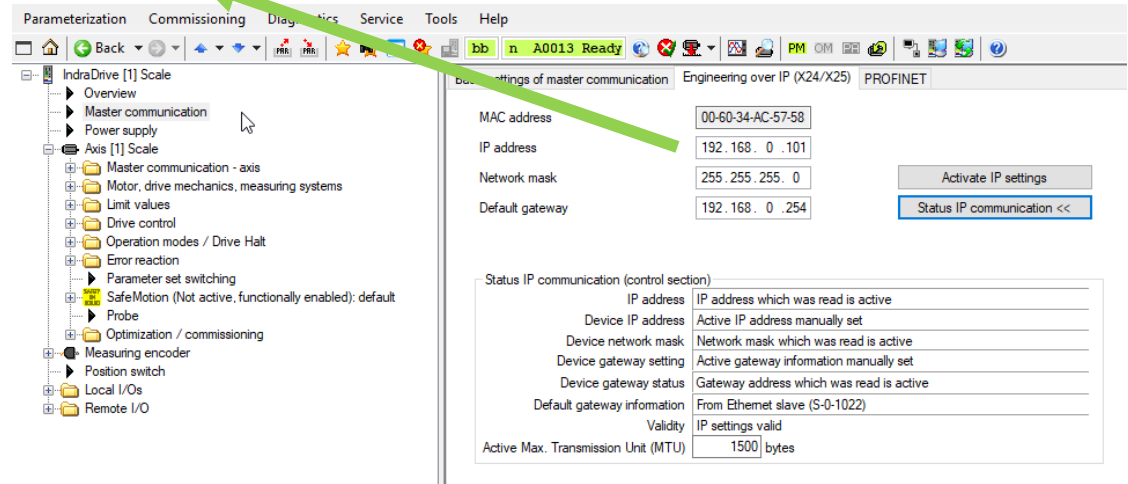
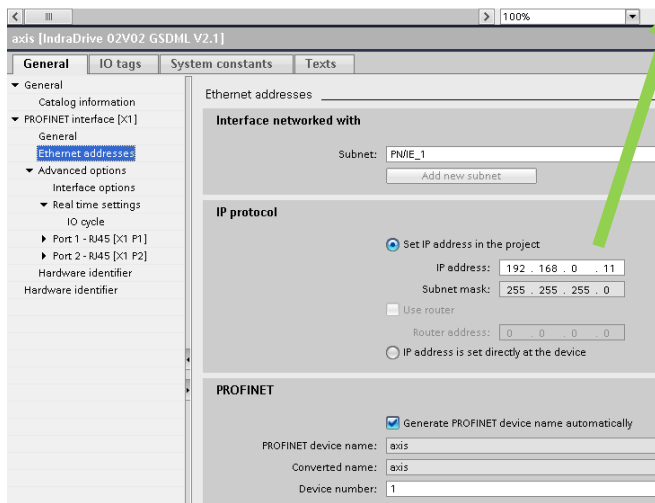
→ The master communication engineering IP address must be **different** to the Profinet IP address (automatically set by Siemens PLC)!



192.168.0.11 = 192.168.0.11



192.168.0.11 ≠ 192.168.0.101



DE-S7Profinet IndraDrive

Load (small) parameter file to configure the IndraDrive Interface!

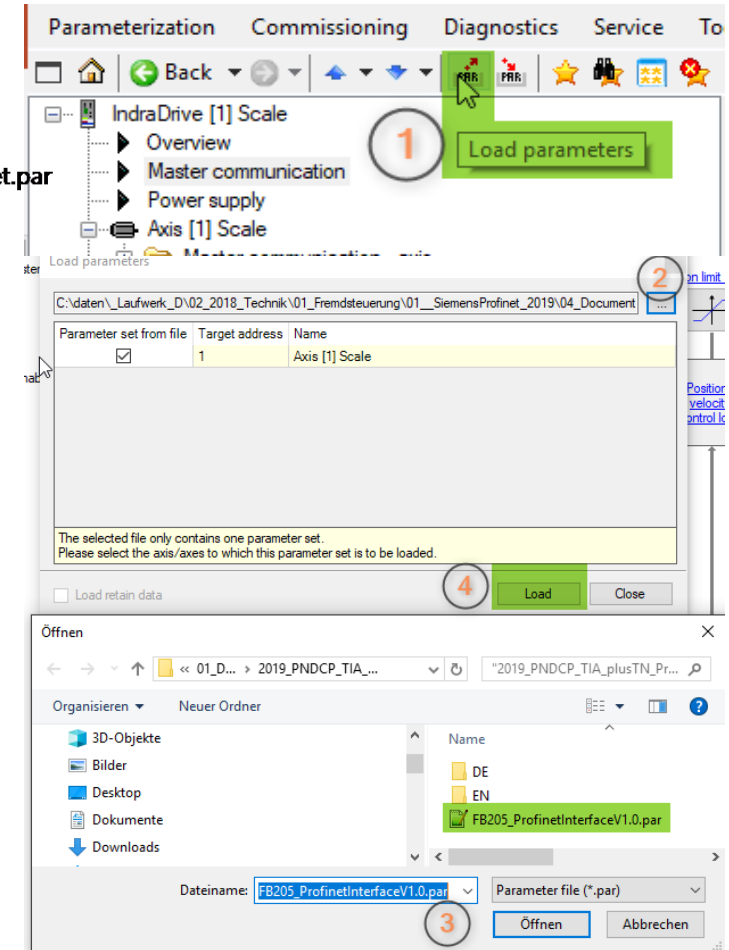
1. Loading this parameter file “FB205..”
 - Option load parameter file “Add..”
2. Reboot the Drive (24V On/Off)
3. Loading this parameter file again (as a precaution)
4. Connect S7 CPU with the drive
5. Retrieve the example project (see next side)
6. Open the project
7. Assign device name (see next side)
8. Start the example (Profinet communication should be run)
9. Activate the program example (see next side)
10. Details see, ”EN_Profinet_FB_DCP_IndraDrive_V1.2.1.pdf”



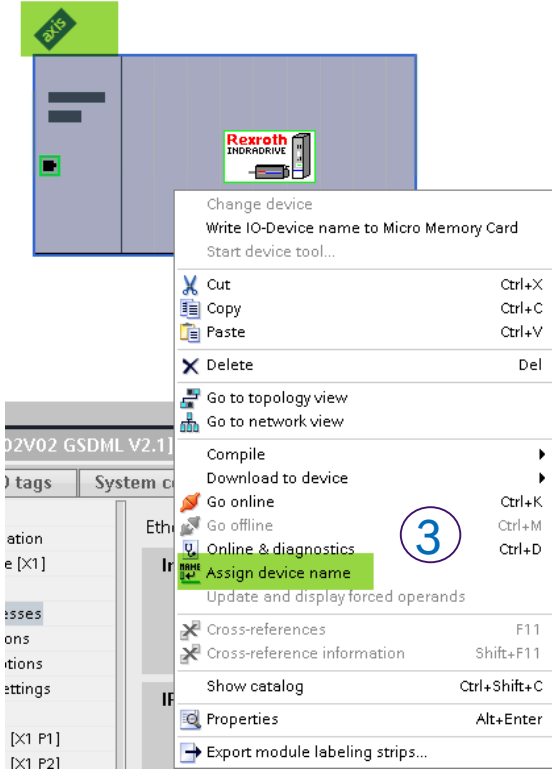
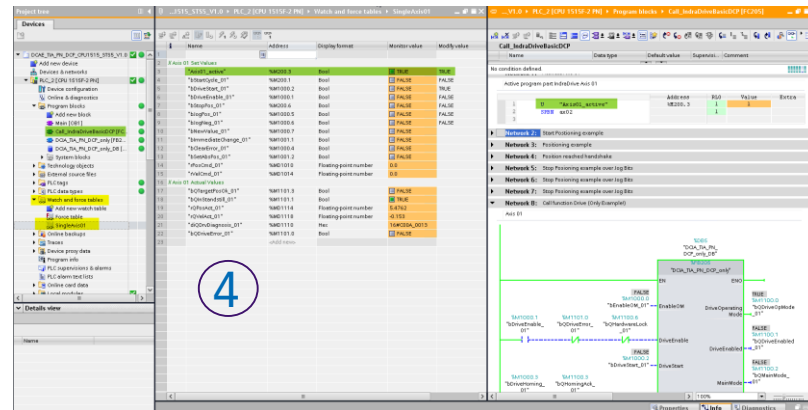
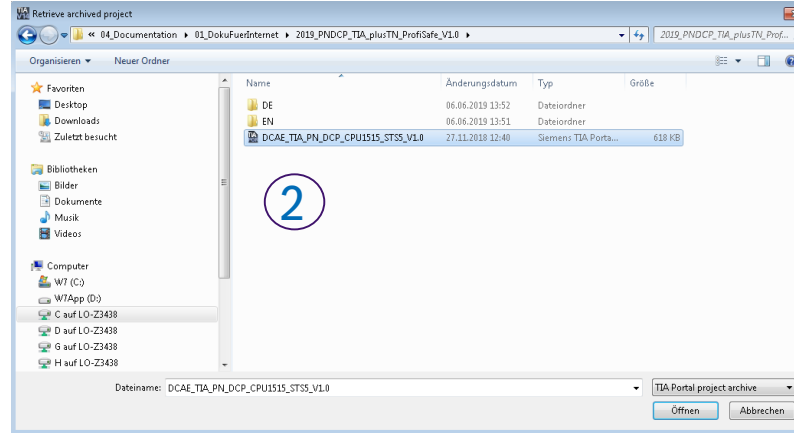
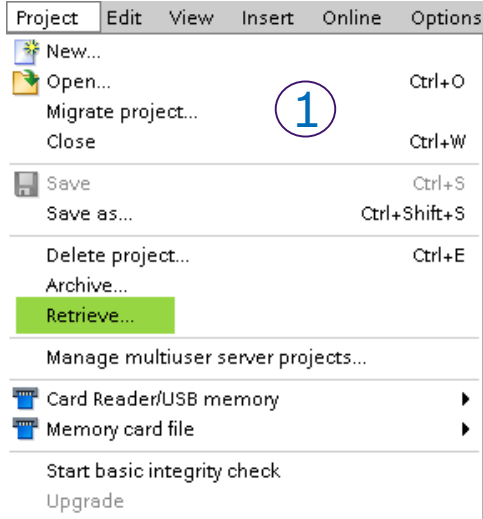
FB205_ProfinetInterfaceV1.0.par



AddParameterChannelProfinet.par



DE-S7Profinet IndraDrive Open TIA example projec



DE-S7Profinet IndraDrive

Open TIA example project

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The screenshot displays the Siemens TIA Portal software interface for configuring a single-axis drive. The interface is divided into three main panes:

- Project tree (left):** Shows the project structure. The 'Watch and force tables' section is expanded, showing the 'SingleAxis01' table.
- Variable declaration table (middle):** A table listing variables for the 'SingleAxis01' drive. The table has columns for Name, Address, Display format, Monitor value, and Modify value.
- Ladder logic editor (right):** Shows the 'Call_IndraDriveBasicDCP' function block. The 'Active program part' is 'IndraDrive Axis 01'. The 'Network 2' is selected, showing the 'Start Positioning example'.

Variable declaration table (SingleAxis01):

Name	Address	Display format	Monitor value	Modify value
// Axis 01 Set Values				
"Axis01_active"	%M200.3	Bool	TRUE	TRUE
"bStartCycle_01"	%M200.1	Bool	FALSE	FALSE
"bDriveStart_01"	%M1000.2	Bool	FALSE	TRUE
"bDriveEnable_01"	%M1000.1	Bool	FALSE	FALSE
"bStopPos_01"	%M200.6	Bool	FALSE	FALSE
"bJogNeg_01"	%M1000.5	Bool	FALSE	FALSE
"bJogPos_01"	%M1000.6	Bool	FALSE	FALSE
"bNewValue_01"	%M1000.7	Bool	FALSE	FALSE
"bImmediateChange_01"	%M1001.1	Bool	FALSE	FALSE
"bClearError_01"	%M1000.4	Bool	FALSE	FALSE
"bSetAbsPos_01"	%M1001.2	Bool	FALSE	FALSE
"rPosCmd_01"	%MD1010	Floating-point number	0.0	
"rVelCmd_01"	%MD1014	Floating-point number	0.0	
// Axis 01 Actual Values				
"bQTargetPosOk_01"	%M1101.3	Bool	FALSE	
"bQInStandstill_01"	%M1101.1	Bool	TRUE	
"rQPosAct_01"	%MD1114	Floating-point number	5.4762	
"rQVelAct_01"	%MD1118	Floating-point number	-0.153	
"diQDrvDiagnosis_01"	%MD1110	Hex	16#C00A_0013	
"bQDriveError_01"	%M1101.0	Bool	FALSE	
<Add new>				

Ladder logic editor (Network 2):

The ladder logic editor shows the 'Call_IndraDriveBasicDCP' function block. The 'Active program part' is 'IndraDrive Axis 01'. The 'Network 2' is selected, showing the 'Start Positioning example'. The network contains the following logic:

- EN (Enable) is connected to %M1000.0 (bEnableOM_01).
- ENO (Enable Out) is connected to %M1100.0 (bQDriveOpMode_01).
- DriveEnable is connected to %M1000.1 (bDriveEnable_01).
- DriveStart is connected to %M1000.2 (bDriveStart_01).
- MainMode is connected to %M1100.2 (bQMainMode_01).