How can you establish a connection between a S7-1200 PLC and SIMATIC NET OPC?

S7-1200 PLC, SIMATIC NET OPC

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Question

How can you establish a connection between a S7-1200 PLC and SIMATIC NET OPC?

Answer

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

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1 Introduction

1.1 Use case

The possibility of connecting a S7-1200 with an OPC server is not mentioned in the manual given that it is not officially released by Siemens. In the following chapters you find a description on how to realize such a connection.

As it is not possible to create a PC Station with STEP 7 Basic V10.5 you need to use the NCM PC tool of SIMATIC NET Edition 2008.

Figure 1-1



1.2 Requirements

- PG/PC
- STEP 7 Basic V10.5
- SIMATIC NET Edition 2008
 - NCM PC tool
 - OPC Server
 - OPC Scout
- S7-1200 PLC
- Ethernet Cable (Crossed)

Figure 1-2



2 Setting up your S7-1200 PLC by STEP 7 Basic

Configure your S7-1200 PLC and provide data to be watched via OPC connection.

2.1 Hardware configuration

For the hardware configuration use the project view of STEP 7 Basic V10.5.

Create project

Select the menu command **project > new.**.. The dialog box **create a new project.** opens. Enter the name **S7-1200_OPC_SIMATIC-NET** in the **Project name** input field. Click the **Create** button.

Figure 2-1

Siemens	Create a new project.	×
Project Edit View Insert Online Option	Project name: \$7-1200_OPC_SIMATIC-NET	
Open Ctrl+O	Path: C.IDocuments and Setting ISIMATICMy Documents Auton	
Migrate project	Author: SIMATIC	
Close Ctrl+W	Comment	
Save Ctrl+S		
Save as Ctrl+Shift+S		
Delete project		1
T SIMATIC Card Reader	Create Cancel	
Print OtduP		

Add new PLC to project

Double click the project tree command **Add new device**. The **Add new device** dialog box opens. In the work area click the button **SIMATIC PLC** and select your PLC by clicking its MLFB. Click the **OK** button.

Figure 2-2				
Siemens - S7-1200_OPC_SIMATIC-NET				
Siemens - \$7-1200_OPC_SIMATICNET Project Edit View Insert Online O Project tree Devices Add new device Common data Common data	Add new device Device name: PLC_1	PLC SIMARIC 57-1200 SIMARIC 57-1200 GUI 1211C GUI 1212C GUI 1212C GUI 1214C GEST 214-1AES0-0030 GEST 214 GEST	Device: Order no.: Version: Description: 5008 work mm web Dil4 x 24 and A2 onbo- ruls o cuputs inboard illo; modules for il proforamming communicable	CPU 1214C ACIDORIy 6E57 214-18E30-0x80 V1.0 MCC SINISSOURCE, DO10 reley and 6 high speed counters and 2 is rehoards signal beard expends up to 3 communication modules munication; wp to 8 a signal 0 expansion; 0.1 ms11000 NOFINET connection for pint and PLC to PLC an
	 Open device view 			OK Cencel

Change IP address of Ethernet port

Double click the command **Devices & Networks** in the project tree. In the **Devices & Networks** work area click the **Ethernet port** of your S7-1200 PLC.

In the navigation area of the **Properties** tab select the **Ethernet addresses** instruction. Define the IP address **192.168.0.110** for the Ethernet port in the **IP** address input field.

Click the **Add new subnet** button. In the **Devices & Networks** work area you find the subnet PN/IE_1 connected to your S7-1200 PLC.

Figure 2-3



2.2 Software configuration

To see any value changes you will now create a small program in which two hardware inputs and a hardware output of your PLC are connected to a software flip-flop.

Add global data block

In the **Project tree** click the expand button of your PLC folder (e.g. **PLC_1 [CPU 12...]**). Open the sub-folder **Programm blocks** by clicking its expand button and double click the instruction **Add new block**.

In the dialog box Add new block select the button Data block (DB), enter the name Data_block_1 in the Name input field and uncheck the Symbolic access only check box. Click the OK button. The Data_block_1 work area opens.



Create static data in global data block

Create a bool-typed tag named **static_01** in the **Data_block_1** work area.



Create program in Main [OB1]

In the **Program blocks** folder of your PLC double click the instruction **Main [OB1]**. Copy the program shown in the next picture.

You find the bit logic operations in the **Bit logic** folder in the **Instructions** pane on the **instructions** task card. Drag'n'Drop the "Normally open contacts", "the Output coil" and the "Set/Reset flip-flop" in **network 1** of your **Main [OB1]** work area, according to the picture shown below. Make sure the input fields are filled in the same way as shown in the picture and in the table.

Figure 2-6



contacts

Table 2-1

SR FlipFlop input S: normally open contact	11.0
SR FlipFlop input R: normally open contact	11.1
SR tag	DB1.DBX0.0
SR FlipFlop output Q: output coil	Q1.0

Hint

The "%" in front of the addresses will be added by STEP 7 Basic V10.5 automatically.

2.3 Finalize S7-1200 PLC work

Highlight the **PLC_1 [CPU12...]** folder in your project tree in order to compile, download and run your S7-1200 PLC.

Compile and download program

Press the **Download to device** button in the Toolbar.

Figure 2-7



The **Extended download to device** dialog box opens. Make sure the selected PG/PC interface and subnet are correct. Select PLC_1. Click the **Load** Button.

Extended download to	device				×
	Configured access node	es of "PLC_1"			
	Device PLC_1	Device type CPU 1214C ACID	Туре ТСРПР	Address 192.168.0.110	
	P Accessible devices in to	G/PC interface for load Connection to sub 1st gate rget subnet:	ling: VMware net: PNIE_1	Accelerated AMD P -	how all accessible devices
	PLC 1	CPU 1214C ACID	Type	Address 192,168,0,110	PLC 1
	-	-	TCPIIP	Access address	-
Flash LED		~			
					<u>R</u> efresh
					oad <u>C</u> ancel

Figure 2-8

If you have downloaded your project before, the **load preview** dialog box may open instead of the **Extended download to device** dialog box.

Another dialog box may open before, asking to stop the S7-1200 PLC for downloading. Ackknowledge clicking the **OK** button.



The load preview dialog box opens. Click the load button.



acus	Info	Target	Message	Action
4	0	▼ PLC_1	Ready for loading.	
	0	 Program blocks 	Download program consistently?	 Continue

Switch S7-1200 PLC to run

The load result dialog box opens. Check the **Start all** check box and press the **Finish** button. Your S7-1200 PLC status LED changes from stop to run.



😓 🦺 🕶 PLC_1	Downloading to device completed without error	
🔥 🕨 Start mo	dules Start modules after downloading to device.	Start all
		/

3 Create and configure PC-Station

To access data of your S7-1200 PLC via OPC you have to create and configure a S7-connection in a STEP 7 project.

3.1 Create new STEP 7project

Open your SIMATIC NCM PC tool. To create a new STEP 7 project click on the menu command **File > new**. The **new project** dialog box opens. Write **S7-1200_OPC-Test** in the **name** input field. Click the **OK** button.

PLC View Options Window Help		
ew	Ctrl+N	
lew Project' Wizard ipen	Ctrl+O	New Project
7 Memory Card Iemory Card File	;	User projects Libraries Multiprojects
elete		Name Storage path
eorganize		array_index C:\Documents and Settings\SIMATIC\My Do
lanage		OPC-test C:\Program Files\Siemens\Step7\s7proj\OP(Bit S7 200 MSC CP240 C\Decuments and Settings\SIMATIC\M=D
rchive		S7-1200_DPC-Test C:\Program Files\Siemens\Step7\s7pro\S7-
etrieve		
age Setup		
OPC-test (Projekt) C:\\Siemens\Step7\s7proj\OPC-test		
57-1200_OPC-Test (Project) C:\\Step7\s7pro)(57-1200_		Add to carrent millioniect
S7_300_MSC_CP340 (Projekt) ~ C:1,(Scep7_Projekte(S7_300_1 MICRO SC (Bibliothek) ~ C:1,)Siemens(Step7LS7LIBS)Micro sc		Name: Type:
xit	Ak+F4	S7-1200_OPC-Test Project
		E E Library
		CAlborran ElectSizman/Size7/2722011
		Second Party Contractor in Southard AS/ DEDIS

3.2 Add SIMATIC PC station

Click on the menu command **Insert > station > SIMATIC PC-Station**. A SIMATIC PC-Station is has been added to your project.

Figure 3-2		
SIMATIC M	1anager - [57-1200	0_0PC-Test C:\Program Files\
File Edit	Insert PLC View	Options Window Help
🗋 🗅 🧀 🖁	Station	1 SIMATIC 400 Station
P C7 120	Subnet 🔪	2 SIMATIC 300 Station
57-120	Program	3 SIMATIC H Station
	57 Software	4 SIMATIC PC Station
	CZ Plask	5 SIMATIC HMI Station
	D7 DIUUK M7 Coffiniaria	6 Other Station
	M7 Sortware	7 SIMATIC 55
	Symbol Table	8 PG/PC
	Text Library	9 SIMATIC 200 Station

3.3 Add OPC server

Select OPC server

Select the SIMATIC PC-Station in the project tree and click on the menu command **Edit > Open Object**. The **HW Config** dialog box opens.

Figure 3-	ïgure 3-3						
SIMA	TIC M	lanage	r - [S]	7-1200)_OPC-Te	st C:\P	
File	Edit	Insert	PLC	View	Options	Window	
0 🖻	- C I	t			Ctrl+3	x	
	_ _	PΥ			Ctrl+	c	
	_ Fa	ste			Ctrl+	V	
	þe	Delete			Del		
	Select All			Ctrl+A			
	Un	ido Selei	ction				
	Re	name			F2		
	📕 Ob	Object Properties Alt+Return			teturn		
	/ Sp	Special Object Properties				•	
	Open Object Ctrl+Alt+O			Alt+0			
	_						

Click on line one of the (0) PC rack in the work area. Double click on SIMATIC PC-Station > User Application > OPC Server > SW V7.0... in the catalog. The OPC server is inserted into line one of the rack.

Figure 3-4	
🖳 HW Config - [SIMATIC PC Station(1) (Configuration)	- 57-1200_0PC-Test]
🕅 Station Edit Insert PLC View Options Window Hel	lp
D 😅 🐎 🗳 🖏 🎒 B 🕞 🏜 🏜 📳 📼	8 №?
■ (0) PC ■ Eind:	
Brotile: S	tandard
3 Profile: S 4 5 PROF 5 PROF PROF 6 PROF PROF 7 SIMA PROF 9 SIMA SIMA 10 SIMA SIMA 11 SIMA SIMA 12 SIMA SIMA 13 SIMA SIMA 14 SIMA SIMA 16 U H 17 U H 18 SIMA SIMA	tandard FIBUS DP FIBUS-PA FINET IO TIC 300 TIC 400 TIC HMI Station TIC PC Based Control 300/400 TIC PC Station ontroller P Industrial Ethernet P PROFIBUS MI Iser Application Application OPC Server
20 21 22	I SW V6.0 SP4 SW V6.0 SP5 SW V6.1
23	
25	
26	

Configure OPC server properties

Double click on the OPC Server module in line one of the (0) PC rack. The Properties dialog box opens. Click on the S7 tab. Set the Use Symbols radio button to None. Symbol use is not supported by S7-1200. Click the OK button.

Figure 3-5
Properties - OPC Server
SNMP PROFINET PROFINET IO General DP DP master class 2 FDL FMS S7 ISO/TCP
Cycle time: 100 ms
Access Protection
☐ <u>A</u> ctivate
Default rights:
Rights specific to OPC jtem Edit
Use Symbols Image: None Image: All Image: Configured Configure Time after which an unforwardable grotocol alarm is removed: Maginum number of pending alarms: 500
OK Cancel Help

3.4 Add Ethernet interface IE General

Select Ethernet interface

Click on line two of the (0) PC rack in the work area. Double click on SIMATIC PC-Station > CP Industrial Ethernet > IE General > SW V6.2 SP1... in the catalog.

Figure 3-6	
HW Config - [SIMATIC PC Station(1) (Cor	nfiguration) 57-1200_0PC-Test]
III Station Edit Insert PLC View Options	Window Help
	🕼 🖪 😤 м
🖳 (0) PC	
1 OPC Server	Eind:
2	
3	Profile: Standard
4	
	PROFIBUS-PA
	🕀 🐨 PROFINET IO
	🗄 🗄 🔠 SIMATIC 300
9	📑 🔠 SIMATIC 400
10	🛛 🕀 🖳 SIMATIC HMI Station
11	SIMATIC PC Based Control 300/400
12	SIMATIC PC Station
13	
14	E CP Industrial Ethernet
15	
16	
17	
18	
19	
20	■ CP 1613
21	
22	CP 1616 onboard
23	
24	📗 🔚 🛅 IE General
20	SW V6.2
20	
28	📗 🖶 🧰 ראי איז דער דער 💼 👘

The Properties dialog box opens.

Enter IP address

On the **Parameters** tab enter the IP adress of yourPC in the **IP address** input field (e.g. 192.168.0.11).

Figure 3-7
Properties - Ethernet interface IE General (R0/S2)
General Parameters
Set MAC address / use ISO protocol
MAC address:
IP protocol is being used
IP address: 192.168.0.11 G Do not use router
Subnet mask: 255.255.255.0
Address: 192168.0.11
Subnet:
not networked <u>N</u> ew
Properties
Delete
OK Cancel Help

Add subnet to Ethernet Interface

Click on the Button **New...** The **Properties** dialog box for a new subnet opens.

Figure 3-8	
Properties - New sub	net Industrial Ethernet
General	
<u>N</u> ame: S7 subset ID:	Ethemet(1)
Project path: Storage location	S7-1200_OPC-Test
or the project:	11/20/2009 00:22.50 DM
Last modified:	11/20/2009 09:23:56 PM
<u>C</u> omment:	
ОК	Cancel Help

Click the **OK** button. The **subnet properties** dialog box closes. Click the **OK** button. The **ethernet interface properties** dialog box closes. The ethernet interface is inserted into line two of the rack.

3.5 Save and compile project

Click on the menu command **Station > Save and Compile**.

Fig	ure 3-9							
0h	HW Conf	ìg - [9	SIMATI	C PC S	itation	(1) (Con	figuratio	n) 57
04	Station	Edit	Insert	PLC	View	Options	Window	Help
Ιr	New						Ctrl+N	
] -	Open						Ctrl+O	
	Open	ONLIN	VE					
١Ē	Close							
	Save							
	Save	and O	ompile				Ctrl+S	
	Prope	rties						

4 Setup Station Configurator

4.1 Open from start menu

Double click the **Station Configurator** symbol in the task bar. The **Station Configuration Editor** window opens.

Figure 4-1

4.2 Import station from STEP 7 project

Click the **Import Station...** button. An acknowledge box opens. Click the **Yes** button. The **Import XDB file** dialog box opens. Select the file **pcst_1.xdb** and click the **Open** button. The **Configuration for XDB Import** dialog box opens.



Ignore any warning and proceed by clicking the **OK** button. The import is finished.

5 Connection in STEP 7 NetPro

5.1 Set PG/PC interface

Make sure the configuration of your PG/PC interface is correct. Please find additional information on this topic on the internet at <u>http://support.automation.siemens.com/WW/view/en/11870489</u>.

5.2 Download hardware configuration

Make sure your S7-1200 PLC is connected to your PG/PC. Open your **SIMATIC NCM PC** project. Select the **SIMATIC PC Station** in the project tree and click on the menu command **Edit > Open Object**. The **HW Config** dialog box opens.

Figure 5-	1					
SIMA 🛃	TIC M	lanage	r - [S]	7-1200)_OPC-Te	st C:\P
🎒 File	Edit	Insert	PLC	View	Options	Window
🗅 🖻	Cu	t			Ctrl+3	x
	Co	ΡY			Ctrl+•	c
	Pa	ste			Ctrl+	V
	De	lete			Del	
	Se	lect All			Ctrl+	A
	Un	do Sele	ction			
	Re	name			F2	
	Ob	ject Pro	pertie	s	Alt+R	teturn
	Sp	ecial Ob	ject Pr	opertie	s	•
	Ор	en Obje	ect		Ctrl+,	Alt+0

Click the **Download** button in the tool bar. Acknowledge the **Select Target Module** dialog box by clicking the **OK** button. The **Select Node Address** dialog box opens.



Make sure the IP address of your SIMATIC PC-Station(1) is matching the IP address of your PC. Click the **OK** button.

Figure 5-3

×
I
i
4
]

5.3 Configure network with NetPro

Create S7-connection

Click the menu command **Options > Configure Network**. The **NetPro** window opens.

Figure 5-4

Figure 5-5

-	
HW Config - [SIMATIC PC Station	(1) (Configuration) 57-1200_OPC-Test]
🛄 Station Edit Insert PLC View	Options Window Help
D 🚅 🐎 🖩 🖫 🎒 🖻 🖻	Customize Ctrl+Alt+E
	Specify Module
	Configure Network
1 OPC Server	Symbol Table Ctrl+Alt+T
2 E General	Report System Error
3	
4	Edit Catalog Profile
5	Update Catalog

Select the **OPC server** slot of the PC-Station(1). Click on the menu command **Insert > New Connection**. The **Insert New Connection** dialog box opens.

NetPro - [57-1200 OPC-Test (Network) C:\Program	Files\\s7proj\57-1200_]
Retwork Ear Insert PLC view Options window He	p Insert New Connection
MPI New Connection Ctrl+N	Connection Partner
Ethernet(1) Industrial E	Project Station: Unspecified)
Local ID Partner ID Partner	Module:
	Connection Lype: S7 connection M Display properties before inserting OK Apply Cancel Help

Since the S7-1200 is an S7 Station we are able to use a S7-Connection. The partner should be unspecified since the S7-1200 is not available in the same Step 7 project.

Click the OK button. The Properties – S7 connection dialog box opens.

Configure S7-connection

Key the IP adress **192.168.0.110** of your S7-1200 PLC in the **Partner Adress input field** of the **Properties – S7 connection** dialog box.

Click the Adress Details... button. The Adress Details dialog box opens. Enter 0 in the Partner Rack input field and 1 in the Partner Slot input field. Click the OK

button. Close the **Properties – S7 connection** dialog box by clicking its **OK** button. Click the **OK** button.

Figure 5-6

Properties - 57 co	nnection		×	Address Details		
General OPC	Status Information				Local	Ewtrer
Local Connect E Direct config E Directory E Establish a E Send control	on End Point gured dynamic connection n active connection ting mode messages	Connection Identification Local ID: 57 connection_1 VFD Name [DPC Server		End Point Back/Slot Connection Resource Prest TSAP:	SMATTIC PC Station(1)/ OPC Server	Unpecied 0 03 03 03 03 03 03 03 03 03
Connection Pa	n		- 1			
	Logal	Parton				
End Point	SIMATIC PC Station(1)/ OPC Server	Unspecified		S7 Subret (S.	0038 - 0000	ŀ
Interface:	IE General	Unspecified		$ \sim$	/	
Subnet	Ethernet(1) [Industrial Ethernet]	[Industrial Ethernet]		OK 🖌		Cancel Help
Addess:	[192168.0110	Address Datab				

Compile project

Click the menu command **network > save and compile**.

Figu	re 5-7	
	etPro - [57-1200_OPC-Test (Network) C:\Program Files\\s7proj\57-	1200_]
8	Network Edit Insert PLC View Options Window Help	
	Open Close	Ctrl+O
	Save	
	Save and Compile	Ctrl+S
	Check Consistency Check Cross-Project Consistency	Ctrl+Alt+K Ctrl+Alt+M
	Print Print Preview Page Setup	Ctrl+P
	1 S7-1200_OPC-Test (Network) C:\Program Files\Siemens\Step7\s7proj\S7-120 2 S7-1200_OPC-Test (Netz) C:\Program Files\Siemens\Step7\s7proj\S7-1200_ 3 CarWash (Network) D:\S7proj\CarWash\CarWash	0_
	Exit	Alt+F4

Download connection

Select the **SIMATIC PC Station (1)**. Download the connection to the **SIMATIC PC Station (1)** by clicking the **Download** button. Acknowledge any opening dialog box. The connection should have been downloaded to your device yet.

Figure 5-8
🎇 NetPro - [57-1200_0PC-Test (Network) C:\Program Files\\s7proj\57-1200_]
Real Network Edit Insert PLC View Options Window Help
😂 🖳 🖓 🕒 🗈 💼 🏙 🏜 🖉 🖉 🕼 🖻 ! 💦
Download the Selected Station(s)
MPI(1) MPI
Ethernet(1) Industrial Ethernet
SIMATIC PC Station(1)

6 OPC Scout

6.1 Create new group

Open OPC Scout. Double click **OPC.SimaticNET** in the server tree. The **Add Group** dialog box opens. Enter **S7-1200_OPC_Test** in the **Group Name** input field. Click the **OK** button.

Figure 6-1

Image: Server Score Constraint of the Server Score Constraint of the Server Score Constraint of the Server Server Score Constraint of the Server Constraint of the Se				
File View Group Add Group Servers and groups Add Group X Server(1) Group Properties: X Yet Server(s) File X Yet Yet Server(s) Yet Yet Server(s) Server(s) Yet Yet Server(s) Server(s) Yet Yet Server(s) Server(s) Server(s) Ye	🚰 OPC Scout - New Project1			
Servers and groups Add Group Server() Group Properties: Server() Finter a 'group Name': Server() Server() Server() Finter a 'group Name': Server() Finter a 'group Name': Server() Server() Server()	File View Server Group ?			
Servers and groups Add Group Add Group Group Properties: Create group Name S7-1200_OPC_Test OPC.SimaticNet.AE OPC.SimaticNet.AE OPC.SimaticNet.T.PD OPC.SimaticNetAlarms	🛎 🖬 🔄 🌆 🖽			
Group Properties: Create new group active Create new group active Cr	Servers and groups	🚉 Add Group		×
OPC.SimotionAlarms Extended OK Cancel Apply	Server(1) Server(s) Comparison of the serv	Group Properties: Enter a ' <u>G</u> roup Name': S7-1200_OPC_Test Create <u>n</u> ew group active Requested <u>update</u> rate in ms Extended <u>QK</u>	F⊽ 500 	

6.2 Select connection and create items

Double click the new group **S7-1200_OPC_Test**. The **OPC – Navigator** dialog box opens.



Browse the **Nodes** tree to **Connections > \S7 > S7 connection_1 > objects > I >** [New Definition]. Double click the option [New Definition]. The Define New Item dialog box opens. Fill in the data as shown in the table 6-1.

Table 6-1

Datatype	Address	Bit No.	No. Values		
Х	1	0	1		

Click the **OK** button. Take over the new item in the right column four times by clicking the --> button..

Double click on each item and modify its name as shown in table 6-2.

Table 6-2

S7:[S7 connection_1]IX1.0			
S7:[S7 connection_1]IX1.1			
S7:[S7 connection_1]DB1, X0.0, 1			
S7:[S7 connection_1]QX1.0			

Click the **OK** button to end the **OPC Navigator** window.

6.3 View values

In the **Values** column you can see the actual values of the listed items. If you are connected to your S7-1200 PLC the **Quality** of the item is listed **good**.

Figure 6-3							
CPC Scout - New Project1 Ele Yew Server Group Rem 2							
Servers and groups	Items in	cl. status information		_			
Server(s)		Item Names	Value	Format	Type	Access	Quality
□ - ♣ Local Server(s)	1	\$7:(\$7 connection_1)\$<1.0	False	Driginal	bool	RW	good
OPC.SimaticHMI.HmRTm	2	\$7:[\$7 connection_1]0<1.1	False	Driginal	bool	RW	good
OPC.SimaticNET	3	\$7:[\$7 connection_1]DB1, X0.0, 1	False	Driginal	bool	RW	good
S7-1200_OPC_Test	4	S7:[S7 connection_1]QX1.0	False	Driginal	bool	RW	good
[New group]	5						
OPC.SimatcNetAE OPC.SimaticNET.DP							
OPC.SimaticNET.PD							
OPC.SimaticNetAJams							
OPC.SimaticNetAJamsSNMP							
Add Barrola Samarria							
	L						
1							•
Item(s) successfully added				N	0.	4	