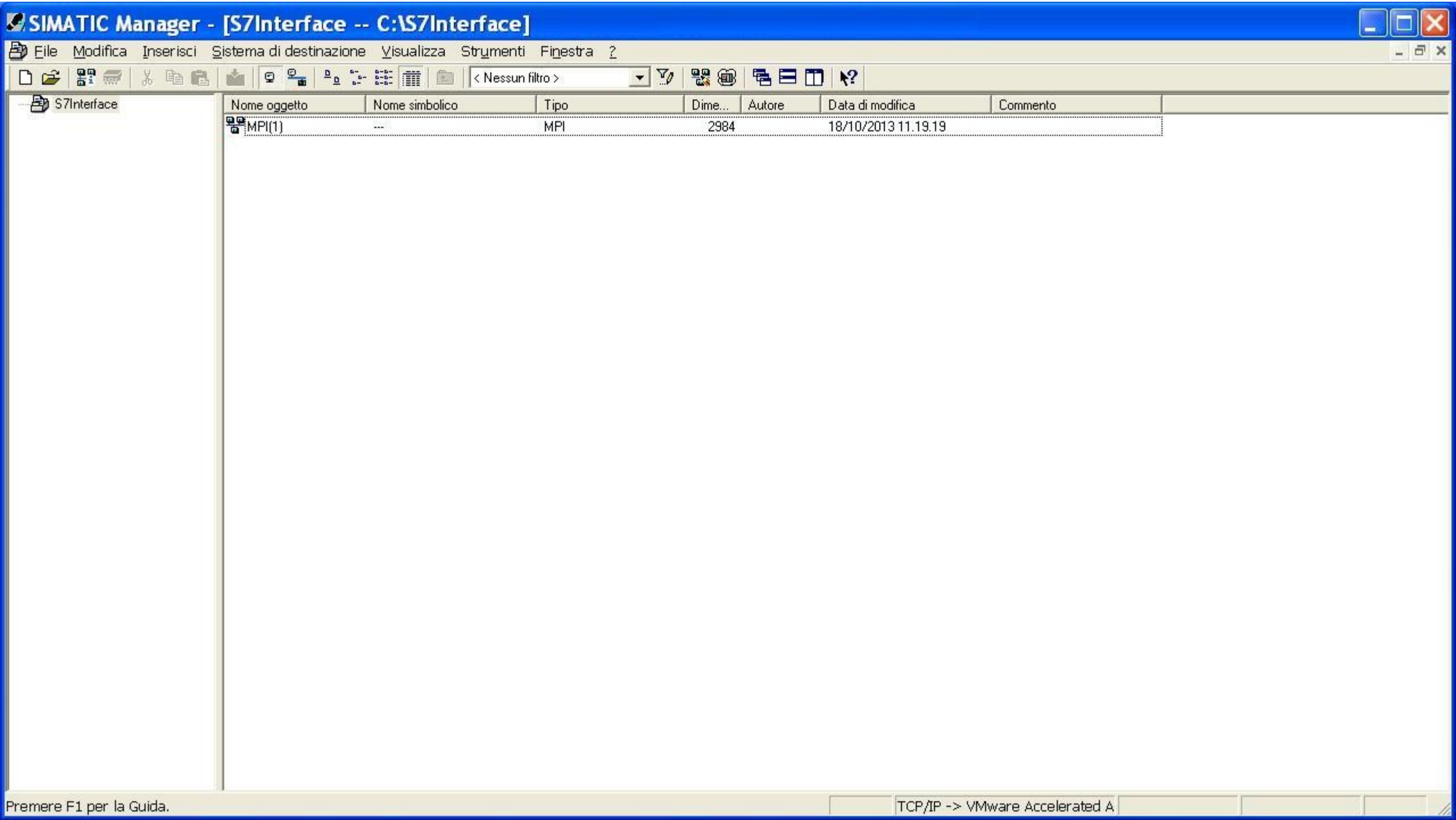
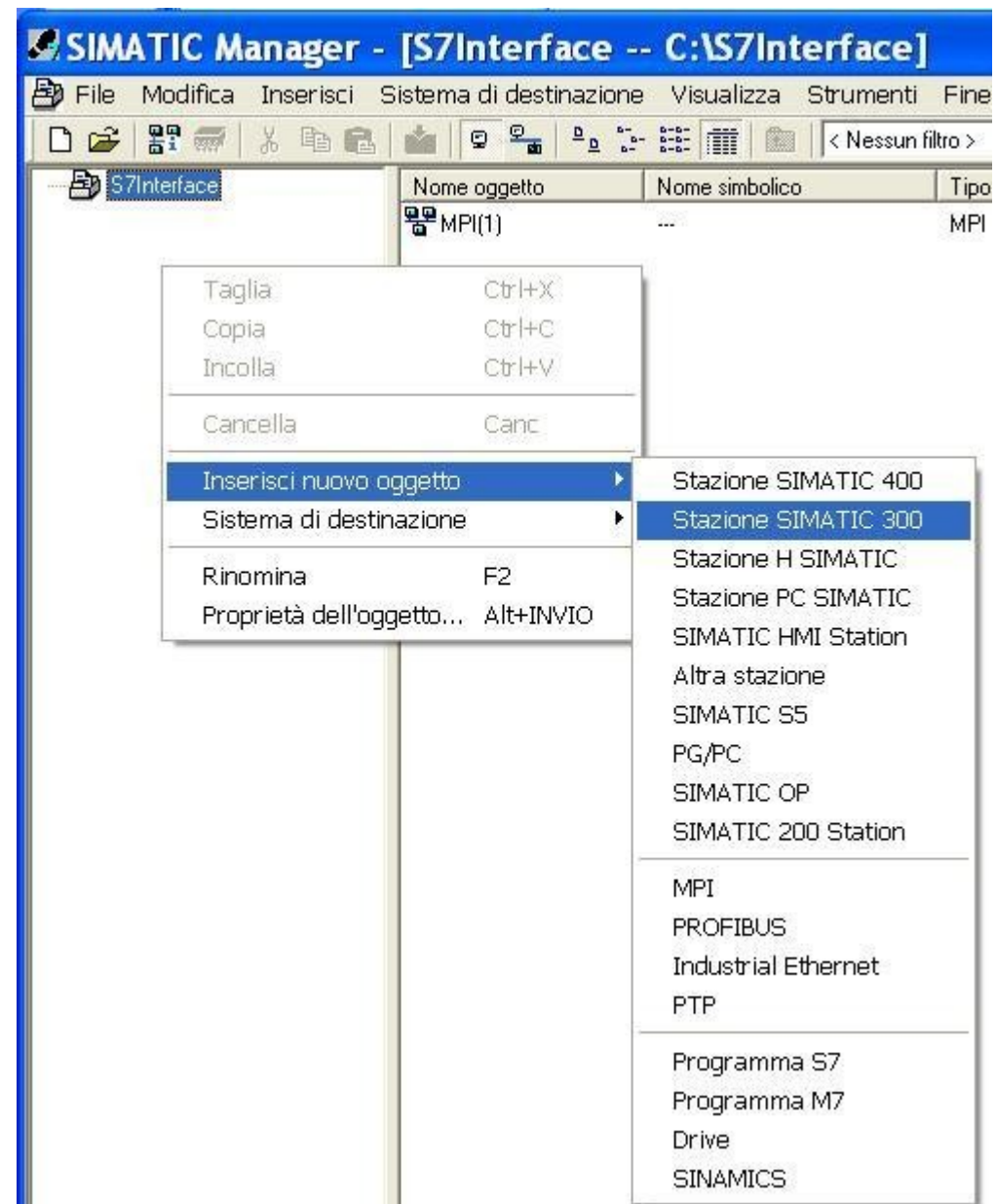


These steps show how to configure yours project to enable the communication between S7Interface component and PLC Siemens. All software, excluded Step7 Simatic Manager, it's free and can be download from Siemens Support Web Site, anyway all software it's avaiable also in the same package that include this Step By Step instruction file.







# Configurazione HW - [SIMATIC 300(1) (Configurazione) -- S7Interface]

Stazione Modifica Inserisci Sistema di destinazione Visualizza Strumenti Finestra ?



(0) UR	
1	
2	CPU 317-2 PN/DP
X1	MPI/DP
X2	PN-IO
X2 P1 R	Porta 1
X2 P2 R	Porta 2
3	

## Proprietà - Interfaccia Ethernet PN-IO (R0/S2.2)

Generale Parametri

Indirizzo IP: 192.168.48.1  
 Maschera sotto-rete: 255.255.255.0

☐ Acquisisci indirizzo IP in altro modo

Accoppiamento ad altra rete  
☒ senza router  
☐ con router  
 Indirizzo:

Sotto-rete:  
 --- non collegato/a in rete ---

Nuova...  
 Proprietà...  
 Cancella

OK Annulla ?

## Proprietà - PN-IO (R0/S2.2)

Ridondanza del supporto Sincronizzazione dell'ora Opzioni

Generale Indirizzi PROFINET I Device Sincronizzazione

Sigla: PN-IO  
 Nome dispositivo: PN-IO

☐ Acquisisci nome dispositivo in altro modo  
☒ Supporta la funzione Sostituzione dispositivi senza supporto di memoria estraibile

Interfaccia  
 Tipo: Ethernet  
 Numero dispositivo: 0  
 Indirizzo: 192.168.48.1  
 Collegata in rete: No Proprietà...

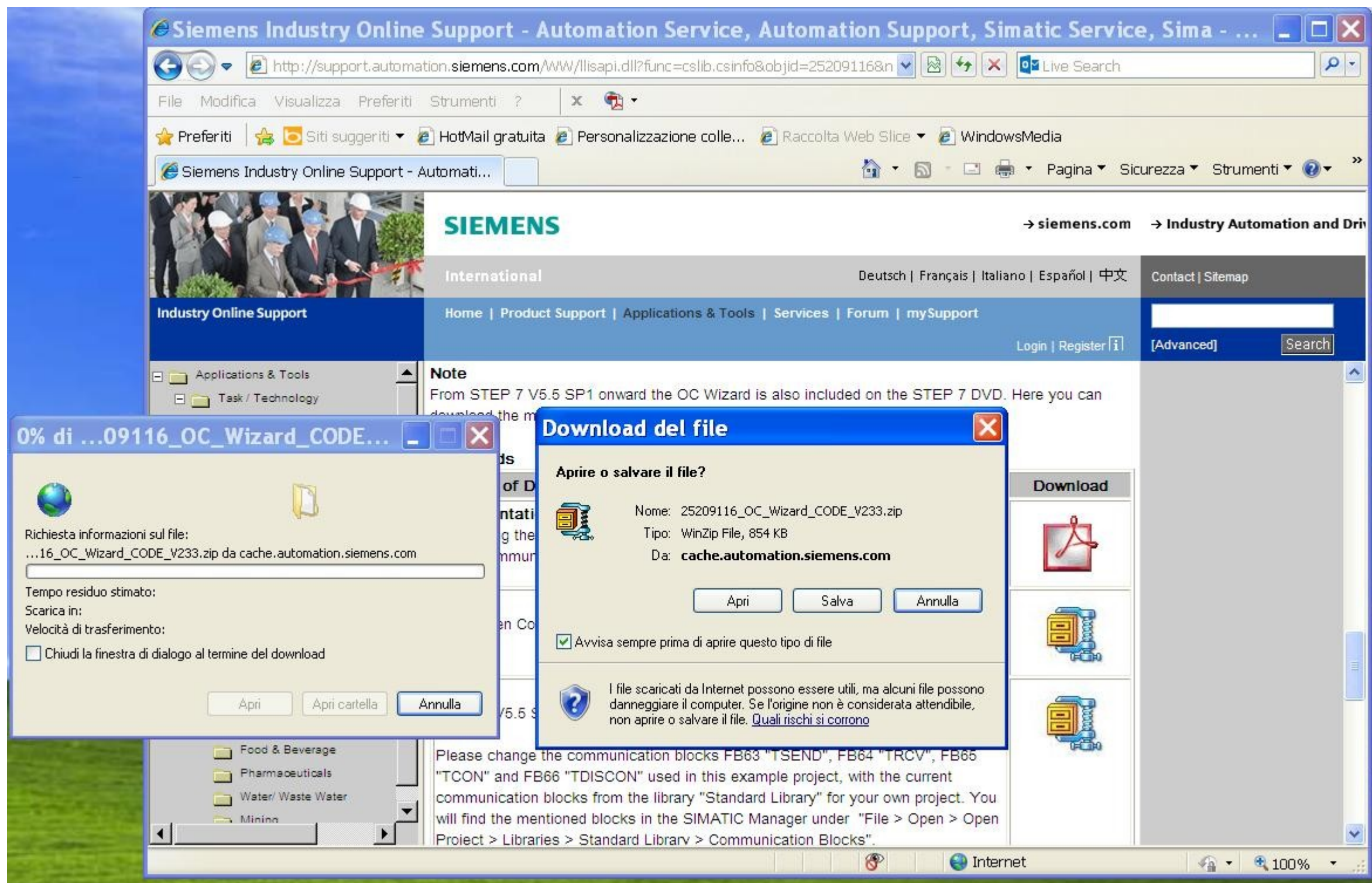
Commento:

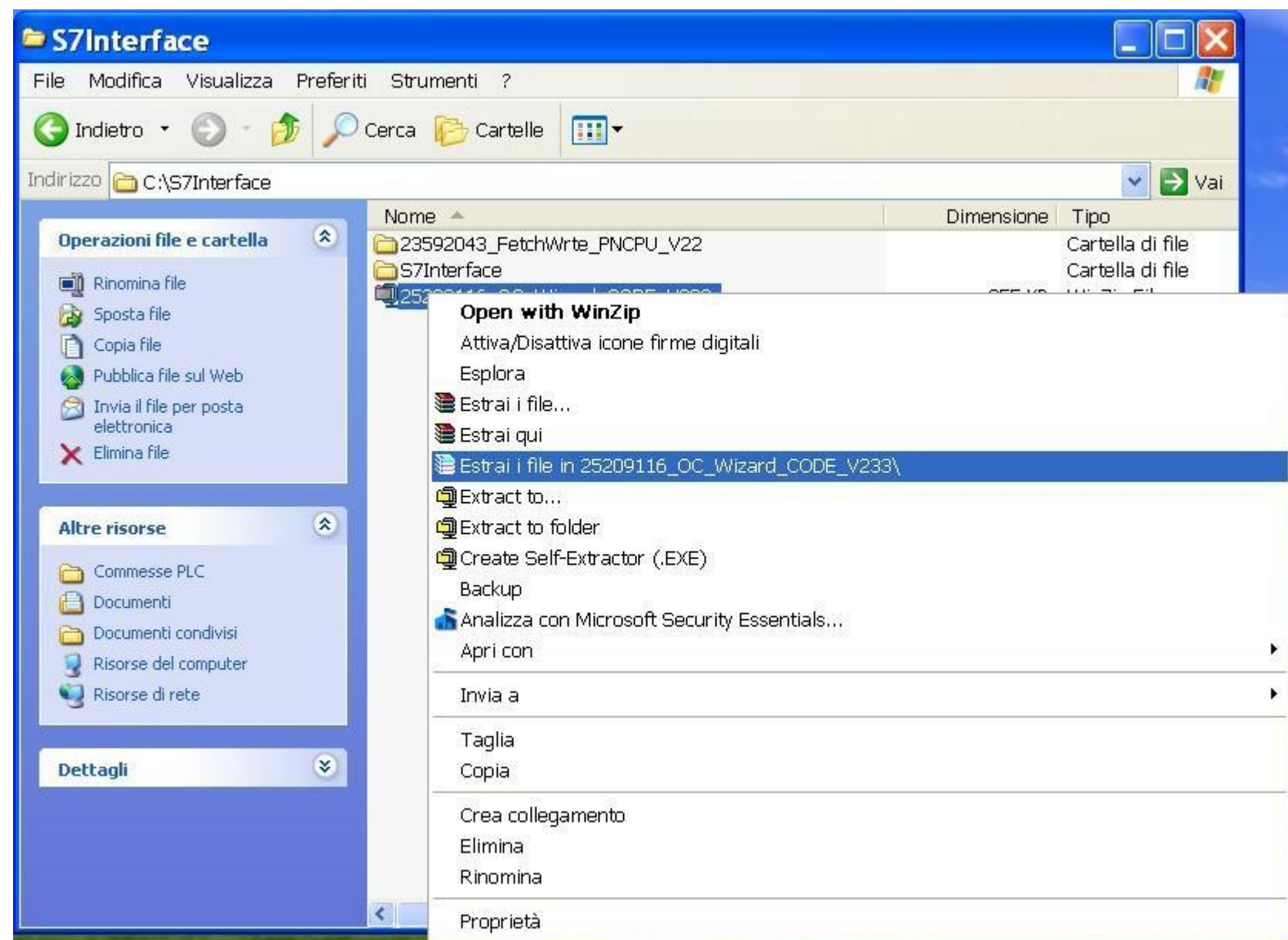
OK Annulla ?

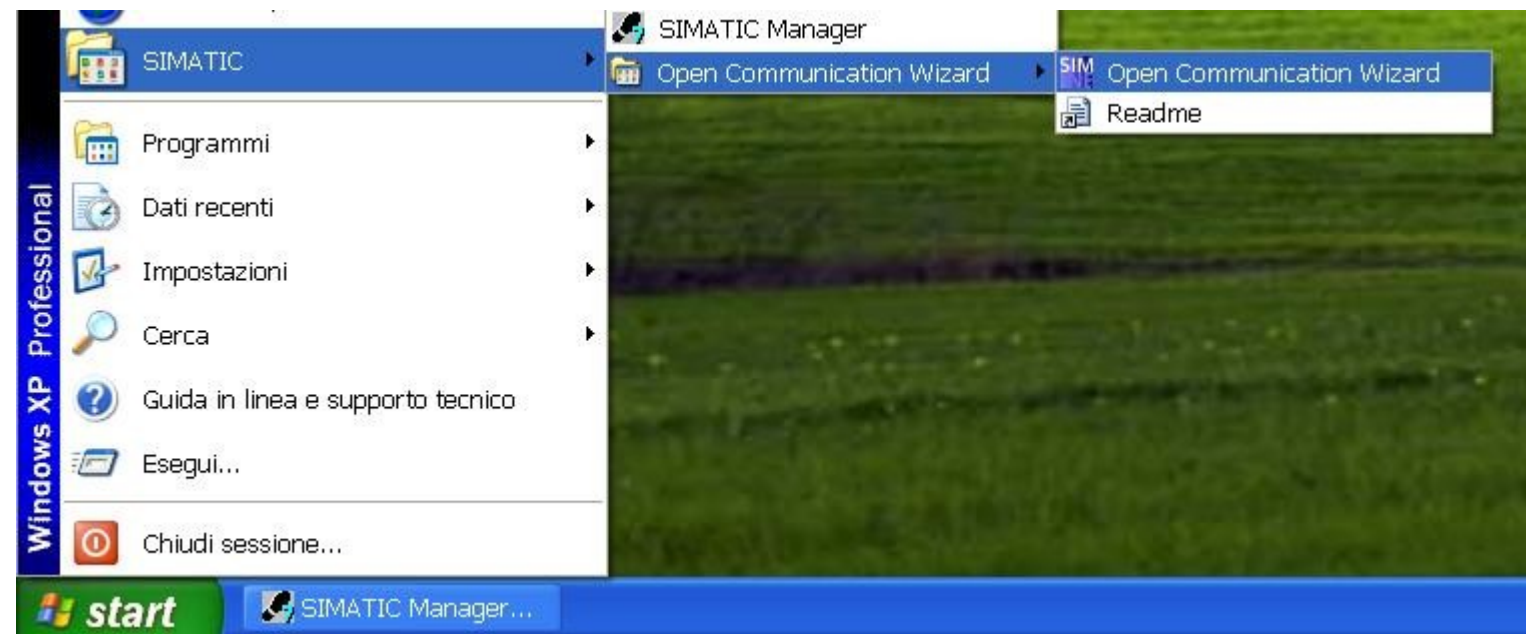
Posto connettore	U...	N...	Fi...	In...	In...	In...	Com...
1							
2	CPU 36ES7V3.2 2						
X1	MPI/DP			2	8191		
X2	PN-IO				8190		
X2 P1 R	Porta 1				8189		
X2 P2 R	Porta 2				8188		
3							
4							
5							
6							
7							
8							
9							
10							
11							

Premere F1 per accedere alla Guida.

















Open Communication Wizard

STEP 7 project

Select STEP 7 project and block folder.

STEP 7 project:

C:\S7Interface'

...

Block folder:

S7Interface\SIMATIC 300(1)\CPU 317-2 PN/DP\Programma S7(1)\Blo

...

IP Adress of station found

192.168.48.1 -> integrated: 1

Info

< Previous

Next >

Finish

Open Communication Wizard

Upload connections

List of connections

ID (16#...)	DB/UDT	Connection type	Connection name	Remote IP

<

>

☒ New

☐ Change

☐ Copy

Export

Info

< Previous

Next >

Finish



**Open Communication Wizard**

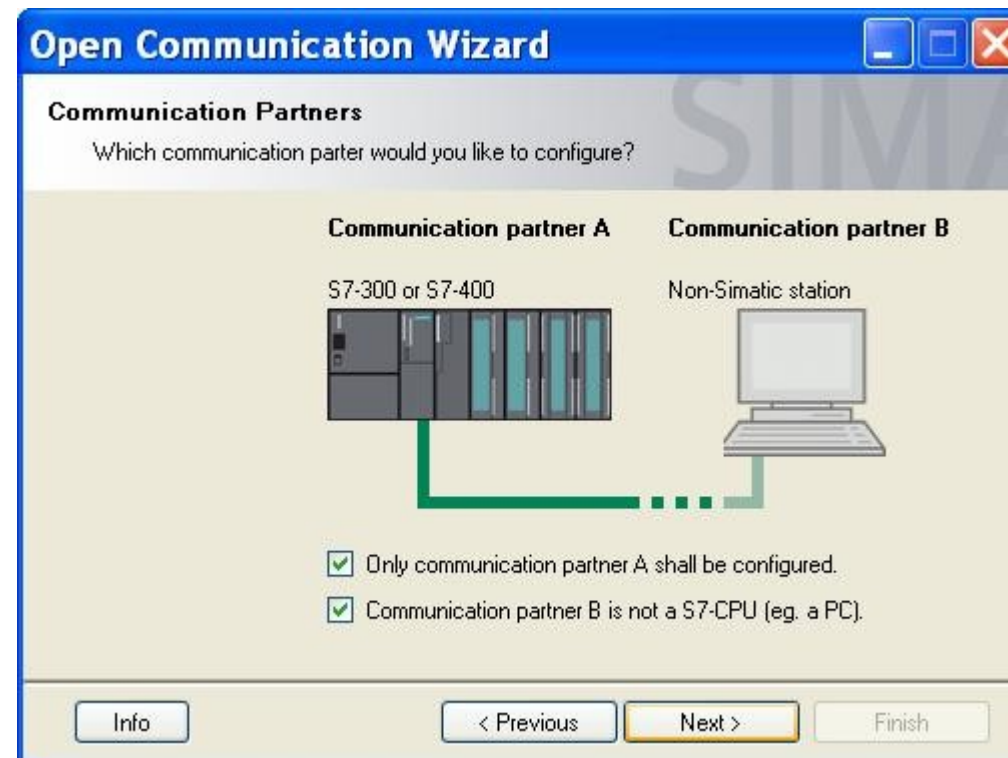
**Connection type**  
Choose the type of your connection.

☒ **TCP native**  
Open, connection-oriented communication as per RFC 793.

☐ **ISO on TCP**  
Open, connection-oriented communication as per RFC 1006.

☐ **UDP**  
Open, connectionless communication as per RFC 768.

Info < Previous **Next >** Finish



Open Communication Wizard

Communication Partners

Enter the properties of the communications partners.

	Communication partner A	Communication partner B
Connection ID:	W#16#0001	W#16#0001
Connection name:	FECH	
Connection establishment:	<input type="radio"/> Active <input checked="" type="radio"/> Passive	<input checked="" type="radio"/> Active <input type="radio"/> Passive
Connection	<input checked="" type="checkbox"/> Unspecified connection partner	<input type="checkbox"/> Unspecified connection partner
IP address:	000.000.000.000	000.000.000.000
Used interface:	CPU 315/317 (Firmv)	
Rack / Slot of the CPU:	0 / 2	0 / 0
Rack / Slot of the CP:	0 / 3	0 / 0
<div><div>Info</div><div><div>&lt; Previous</div><div>Next &gt;</div><div>Finish</div></div></div>		



Open Communication Wizard

Connection parameters

Enter the parameters for the connection.

	Communication partner A	Communication partner B
Local port no:	<input checked="" type="checkbox"/> Specify port	<input type="checkbox"/> Specify port
<input checked="" type="radio"/> ASCII	<input type="text" value="2000"/>	<input type="text"/>
<input type="radio"/> HEX	<input type="text" value="07D0"/>	<input type="text"/>

Info

< Previous

Next >

Finish

Open Communication Wizard

Choose destination project

Select STEP 7 project, block folder and block.

STEP 7 project:

C:\S7Interface

...

Communication partner A

Name:

DB10

(absolute or symbolic, eg. UDT 65 or "TCON\_PAR")

Block folder:

S7Interface\SIMATIC 300(1)\CPU 317-2 PN/DP\Programma S7(1)\BL...

...

Communication partner B

Name:

(absolute or symbolic, eg. UDT 65 or "TCON\_PAR")

Block folder:

...

Info

< Previous

Next >

Finish

Open Communication Wizard

Overview

List of connections

ID (16#...)	DB/UDT	Connection type	Connection name	Remote IP
1	DB10	TCP/IP	FEETH	unspecified

<

>

Click "Next" to continue

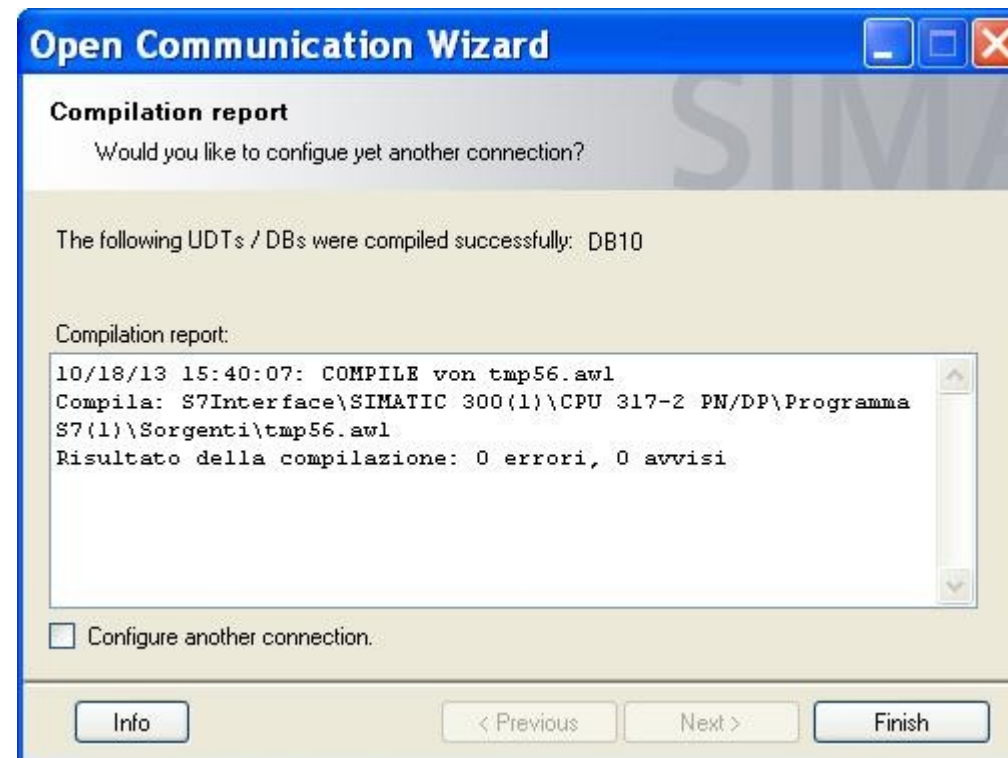
Info

< Previous

Next >

Finish





Open Communication Wizard

Communication Partners

Enter the properties of the communications partners.

	Communication partner A	Communication partner B
Connection ID:	W#16#0002	W#16#0001
Connection name:	WRITE	
Connection establishment:	<input type="radio"/> Active <input checked="" type="radio"/> Passive	<input checked="" type="radio"/> Active <input type="radio"/> Passive
Connection	<input checked="" type="checkbox"/> Unspecified connection partner	<input type="checkbox"/> Unspecified connection partner
IP address:	000.000.000.000	000.000.000.000
Used interface:	CPU 315/317 (Firmv)	
Rack / Slot of the CPU:	0 / 2	0 / 0
Rack / Slot of the CP:	0 / 3	0 / 0
<div><div>Info</div><div><div>&lt; Previous</div><div>Next &gt;</div><div>Finish</div></div></div>		

Open Communication Wizard

Connection parameters

Enter the parameters for the connection.

	Communication partner A	Communication partner B
Local port no:	<input checked="" type="checkbox"/> Specify port	<input type="checkbox"/> Specify port
<input checked="" type="radio"/> ASCII	<input type="text" value="2001"/>	<input type="text"/>
<input type="radio"/> HEX	<input type="text" value="7D1"/>	<input type="text"/>

Info

< Previous

Next >

Finish



Open Communication Wizard

Choose destination project

Select STEP 7 project, block folder and block.

STEP 7 project:

C:\S7Interface

...

Communication partner A

Name:

DB11

(absolute or symbolic, eg. UDT 65 or "TCON\_PAR")

Block folder:

S7Interface\SIMATIC 300(1)\CPU 317-2 PN/DP\Programma S7(1)\BL...

...

Communication partner B

Name:

(absolute or symbolic, eg. UDT 65 or "TCON\_PAR")

Block folder:

...

Info

< Previous

Next >

Finish

Open Communication Wizard

Overview

List of connections

ID (16#...)	DB/UDT	Connection type	Connection name	Remote IP
1	DB10	TCP/IP	FECH	unspecified
2	DB11	TCP/IP	WRITE	unspecified

<

>

Click "Next" to continue

Info

< Previous

Next >

Finish

Open Communication Wizard

Compilation report

Would you like to configure yet another connection?

The following UDTs / DBs were compiled successfully: DB11

Compilation report:  
10/18/13 13:56:55: COMPILE von tmp48.awl  
Compila: S7Interface\SIMATIC 300(1)\CPU 317-2 PN/DP\Programma  
S7(1)\Sorgenti\tmp48.awl  
Risultato della compilazione: 0 errori, 0 avvisi

☐ Configure another connection.

Info

< Previous

Next >

Finish

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http://support.automation.siemens.com/GB/llisapi.dll?func=cslib.csinfo&objId=235920438&no
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←show the entry list

### Implementation of the FETCH/WRITE service in an S7 CPU with PROFINET Interface

▼Display part number

**Problem:**

In the automation level of an already existing plant S5 stations are used with CP1430 TCP. The communication between S5 stations and central station occurs via the ISO-on-TCP protocol using the FETCH and WRITE services. The S5 stations are only replaced by S7. A CPU with integrated Industrial Ethernet interface is used in the S7 station. Since the control station is to be kept, the FETCH/WRITE service has to be implemented in the S7 station. The control station actively establishes the communication connection to the S7 station for the bi-directional data exchange.

Fig. 01

**Solution:**

This application shows how a PC station can access the process data of a CPU 319-3PN/DP via the integrated Industrial Ethernet interface of this CPU using the FETCH and WRITE services. As an example, the data is exchanged between FETCH/WRITE server (CPU 319-3PN/DP) and FETCH/WRITE

**related links**

- Wizard for creating connection da ...
- How do you configure the WRITE an ...
- STEP 7 Professional V11.0 SP1
- What differences are there between ...
- What differences are there between ...

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Machine Building
Biofuels and Bioenergy
Chemical Industries, Petrochemi
Solar
Food & Beverage
Pharmaceuticals
Water/ Waste Water
Mining

**Fig. 01**  
**Solution:**  
This application shows how a PC station can access the process data of a CPU 319-3PN/DP via the integrated Industrial Ethernet interface of this CPU using the FETCH and WRITE services. As an example, the data is exchanged between FETCH/WRITE server (CPU 319-3PN/DP) and FETCH/WRITE client (PC station)

- via TCP native protocol and alternatively
- via ISO-on-TCP protocol.

In the CPU 319-3PN/DP the connections for the open communication via Industrial Ethernet are configured using the wizard for open communication via Industrial Ethernet.

**Downloads**

Content of Downloads	Download
<b>Documentation</b> Implementation of the FETCH/WRITE Service in an S7 CPU with PROFINET Interface	
<b>Code</b> STEP 7 project to configure the CPU319-3PN/DP and PC station, OPC Scout test project	

23592043\_FetchWrte\_PNCPU\_V22.zip ( 3235 KB )

**Additional Information**

Title	Link
System Software for S7-300/400 System and Standard Functions	Entry ID: <a href="#">1214574</a>
S7-CPs for Industrial Ethernet Configuring and Commissioning	Entry ID: <a href="#">8777865</a>
SIMATIC NET Commissioning PC Stations – Manual and Quick Start	Entry ID: <a href="#">13542666</a>
Generating the Connection Data for the open TCP/IP Communication using the Open Communication Wizard	Entry ID: <a href="#">26209116</a>

[Advanced] Search

→ Performance Data
→ Micro Automation Sets

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Guided Tour

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Industry Automation and Drive Technologies
SIEMENS
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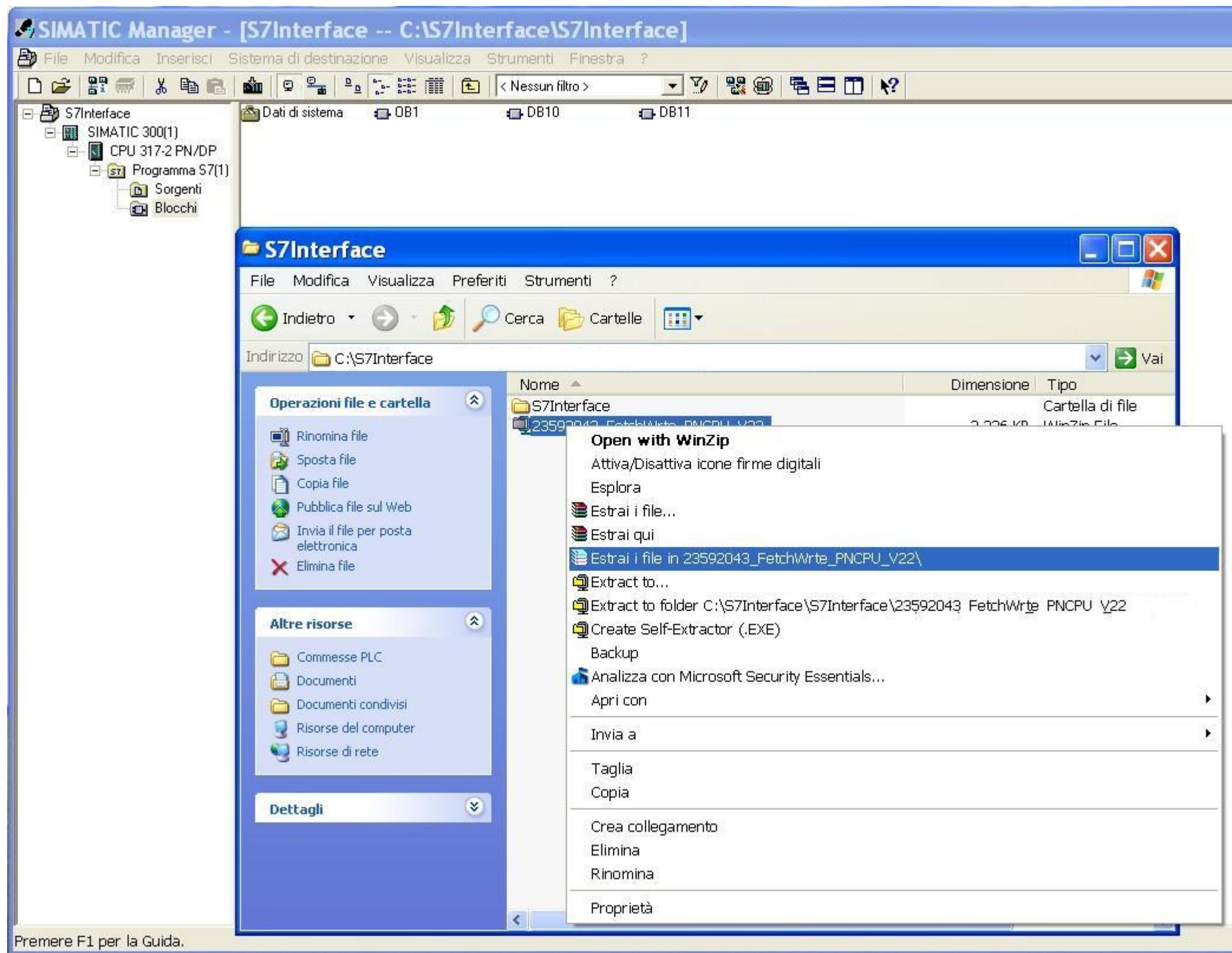
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for Smartphones

SIEMENS

[http://support.automation.siemens.com/GB/llisapi.dll/csfetch/23592043/23592043\\_FetchWrte](#)
Internet
100%







Nome	Dimensione	Tipo	Data ultima mod
FetchWrite_V21_ohne_AWL	3.235 KB	WinZip File	20/10/2000 10:19
T_CON			

**Open with WinZip**  
Attiva/Disattiva icone firme digitali  
Esplora  
Estrai i file...  
Estrai qui  
Estrai i file in FetchWrite\_V21\_ohne\_AWL\

Nome	Dimensione	Tipo
FetchWrite_V21_ohne_AWL		Cartella di file
FetchWrite_V21_ohne_AWL	3.235 KB	WinZip File
T_CON.opp	1 KB	File OPP

The screenshot shows the SIMATIC Manager - S7Interface application. It consists of two main windows side-by-side.

**Systemtest -- C:\Documents and Settings\...\Systemtest\_V21**

Nome oggetto	Nome simbolico	Linguaggio di progra...	Dimensione della me...	Tipo	Versione (Header)
Systemdaten	---	---	---	SDB	---
DB1	---	---	260	Blocco organizzativo	0.1
FB210	FW_TCP	AWL	6778	Blocco funzionale	2.1
FB220	FW_JOT	AWL	7346	Blocco funzionale	2.1
DB1	DB_FetchDATA	DB	64042	Blocco dati	0.1
DB2	DB_WriteDATA	DB	8238	Blocco dati	0.1
DB210	---	DB	8384	DB di istanza per FB ...	0.0
DB211	Connect_Param	DB	356	Blocco dati	0.1
DB220	---	DB	16580	DB di istanza per FB ...	0.0
VAT_FW	VAT_FW	STATUS	---	Tabella delle variabili	0.1

**S7Interface -- C:\S7Interface\S7Interface**

Nome oggetto	Nome simbolico	Linguaggio di progra...	Dimensione della me...	Tipo	Versione (Header)
Dati di sistema	---	---	---	SDB	---
DB1	---	---	38	Blocco organizzativo	0.1
FB210	FW_TCP	AWL	6778	Blocco funzionale	2.1
DB10	---	DB	100	Blocco dati	0.1
DB11	---	DB	100	Blocco dati	0.1

At the bottom of the screen, a status bar displays the message: "Inserisci Blocco funzionale": per 1 oggetti su 1 con esito positivo.

SIMATIC Manager - [S7Interface -- C:\S7Interface\S7Interface]

FileModificaInserisciSistema di destinazioneVisualizzaStrumentiFinestra?

S7Interface

SIMATIC 300(1)

CPU 317-2 PN/DP

Programma S7(1)

Sorgenti

Blocchi

Nome oggetto	Nome simbolico	Linguaggio di progra...	Dimensione della me...	Tipo	Versione (Header)	Nome (Header)	Unlinked	Autore	Non Retain	Blocco standard	Ultima modifica delle ...	DB protetto in scrittur...	Controllo	Data di r
Dati di sistema	---	---	---	SDB	---	---	---	---	---	---	---	---	---	18/10/20
OB1	---	AwL	246	Blocco organizzativo	0.1	---	---	---	---	---	15/02/1996 16.51.12	---	---	18/10/20
FB210	FW_TCP	AwL	6778	Blocco funzionale	2.1	FW_TCP	---	SIMATIC	---	---	06/03/2009 11.28.10	---	---	20/10/20
DB10	---	nB	100	Blocco dati	0.1	TCON_PAR	---	SIMATIC	---	---	18/10/2013 13.50.20	---	---	18/10/20
DB11	---	---	100	Blocco dati	0.1	TCON_PAR	---	SIMATIC	---	---	18/10/2013 13.56.54	---	---	18/10/20
DB20	---	---	8384	DB di istanza per FB ...	0.0	---	---	SIMATIC	---	---	06/03/2009 11.28.10	---	---	18/10/20
DB21	---	---	8384	DB di istanza per FB ...	0.0	---	---	SIMATIC	---	---	06/03/2009 11.28.10	---	---	18/10/20

Apri oggettoCtrl+Alt+O

TagliaCtrl+X

CopiaCtrl+C

IncollaCtrl+V

CancellaCanc

Inserisci nuovo oggetto

Sistema di destinazione

Confronta blocchi...

Dati di riferimento

Stampa

RinominaF2

Proprietà dell'oggetto...Alt+INVIO

Proprietà speciali dell'oggetto

Visualizza le proprietà dell'oggetto selezionato per un'eventuale modifica.



**Proprietà - Blocco dati**

Generale - Parte 1 | Generale - Parte 2 | Richiami | Attributi

Nome: DB10

Nome simbolico: FETCH

Commento al simbolo:

Linguaggio: DB

Percorso progetto: S7Interface\SIMATIC 300(1)\CPU 317-2 PN/DP\Programma  
S7(1)\Blocchi\DB10

Percorso fisico:

	Codice	Interfaccia
Creato il:	18/10/2013 13.50.20	
Ultima modifica:	18/10/2013 15.40.07	18/10/2013 13.50.20

Commento: Connection Parameters for TCON

OK Annulla ?

**Proprietà - Blocco dati**

Generale - Parte 1 | Generale - Parte 2 | Richiami | Attributi

Nome: DB11

Nome simbolico: WRITE

Commento al simbolo:

Linguaggio: DB

Percorso progetto: S7Interface\SIMATIC 300(1)\CPU 317-2 PN/DP\Programma  
S7(1)\Blocchi\DB11

Percorso fisico:

	Codice	Interfaccia
Creato il:	18/10/2013 13.56.54	
Ultima modifica:	18/10/2013 16.01.40	18/10/2013 13.56.54

Commento: Connection Parameters for TCON

OK Annulla ?

S7Interface

SIMATIC 300(1)

CPU 317-2 PN/DP

Programma S7(1)

Sorgenti

Blocchi

Nome oggetto	Nome simbolico	Linguaggio di progra...	Dimensione della me...	Tipo	Versione (Header)	Nome (Header)	Unlinked	Autore	Non Retain	Blocco standard
Dati di sistema	---	---	---	SDB	---	---	---	---	---	---
OB1	---	AWL	246	Blocco organizzativo	0.1	---	---	---	---	---
FB210	FW_TCP	AWL	6778	Blocco funzionale	2.1	FW_TCP	---	SIMATIC	---	---
DB10	FETCH	DB	100	Blocco dati	0.1	TCON_PAR	---	SIMATIC	---	---
DB11	WRITE	DB	100	Blocco dati	0.1	TCON_PAR	---	SIMATIC	---	---
DB20	---	DB	8384	DB di istanza per FB ...	0.0	---	---	SIMATIC	---	---
DB21	---	DB	8384	DB di istanza per FB ...	0.0	---	---	SIMATIC	---	---

KOP/AWL/FUP - [OB1 -- S7Interface\SIMATIC 300(1)\CPU 317-2 PN/DP]

Contenuto di: 'Ambiente\Interfaccia'

Interfaccia

Nome

OB1 : "Main Program Sweep (Cycle)"

Commento:

Segmento 1: Titolo:

Commento:

CALL "FW\_TCP" DB20 FB210 -- Fetch/Write via TCP

ENABLE :=TRUE

CONNECT :="FETCH".OUCW\_1 P#DB10.DBX0.0

ADDRMODE:=0

NDR :=M0.1

ERROR :=M0.2

MODE :=MB1

STATUS :=MW2

CALL "FW\_TCP" DB21 FB210 -- Fetch/Write via TCP

ENABLE :=TRUE

CONNECT :="WRITE".OUCW\_1 P#DB11.DBX0.0

ADDRMODE:=0

NDR :=M4.1

ERROR :=M4.2

MODE :=MB5

STATUS :=MW6

1: Errori

2: Informazioni

3: Riferimenti incrociati

4: Informazioni operando

5: Comando

6: Diagnostica

7: Confronto

Premere F1 per richiedere la Guida.

offline


Ass. < 5.2

Seq 1 Ri 1



Ins

Modifi





**Proprietà - Blocco dati** 


Generale - Parte 1 | Generale - Parte 2 | Richiami | Attributi

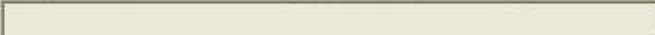
Nome e tipo: DB1 DB globale  

Nome simbolico: TEST

Commento al simbolo: 

Linguaggio: DB 

Percorso progetto: 

Percorso fisico: 

	Codice	Interfaccia
Creato il:	18/10/2013 16.17.41	
Ultima modifica:	18/10/2013 16.17.41	18/10/2013 16.17.41
Commento:		

OK Annulla ?



The screenshot displays the SIMATIC Manager HW Config interface for a SIMATIC 300 station. The title bar indicates the project path: KOP/AWL/FUP - [DB1 -- "TEST" -- S7Interface\SIMATIC 300(1)\CPU 317-2 PN/DPI...\DB1].

The main window shows a hardware rack configuration table:

Indirizzo	Nome	Tipo	Valore iniziale	Commento
0.0		STRUCT		
+0.0	TestBYTE	ARRAY[0..128]		
*1.0		BYTE		
+130.0	TestCHAR	ARRAY[0..128]		
*1.0		CHAR		
+260.0	TestWORD	ARRAY[0..1024]		
*2.0		WORD		
+2310.0	TestINT	ARRAY[0..1024]		
*2.0		INT		
+4360.0	TestDWORD	ARRAY[0..1024]		
*0.1		BOOL		
+4490.0	TestDINT	ARRAY[0..1024]		
*0.1		BOOL		
+4620.0	TestB00L	ARRAY[0..1024]		
*0.1		BOOL		
+4750.0	TestREAL	ARRAY[0..1024]		
*4.0		REAL		
+8850.0	TestSTRING	ARRAY[0..1024]		
*18.0		STRING[16]		
+27300.0	TestTIME	ARRAY[0..512]		
*4.0		TIME		
+29352.0	TestTOD	ARRAY[0..512]		
*4.0		TIME_OF_DAY		
+31404.0	TestDT	ARRAY[0..128]		
*8.0		DATE_AND_TIME		
=32436.0		END_STRUCT		

Below the table is a large empty area for additional comments or notes.

The bottom status bar includes navigation icons and labels: 1: Errori, 2: Informazioni, 3: Riferimenti incrociati, 4: Informazioni operando, 5: Comando, 6: Diagnostica, 7: Confronto. It also shows the connection status as "offline" and the software version as "Ass. < 5.2". A prompt at the bottom left reads: "Premere F1 per richiedere la Guida."

SIMATIC Manager - [S7Interface -- C:\S7Interface\S7Interface]

FileModificaInserisciSistema di destinazioneVisualizzaStrumentiFinestra ?

S7Interface

SIMATIC 300(1)

CPU 317-2 PN/DP

Programma S7(1)

Sorgenti

Blocchi

Nome oggetto	Nome simbolico	Linguaggio di progra...	Dimensione della me...	Tipo	Versione (Header)	Nome (Header)	Unlinked	Autore	Non Retain	Blocco standard	Ultima modifica delle ...	DB protetto in scrittur...	Controllo	Data di r
Dati di sistema	---	---	---	SDB	---	---	---	---	---	---	---	---	---	18/10/2
OB1		AWL	246	Blocco organizzativo	0.1		---		---	---	15/02/1996 16.51.12	---	---	18/10/2
FB210	FW_TCP	AWL	6778	Blocco funzionale	2.1	FW_TCP	---	SIMATIC	---	---	06/03/2009 11.28.10	---	---	20/10/2
DB1	TEST	DB	32472	Blocco dati	0.1		---		---	---	14/10/2013 12.08.41	---	---	15/10/2
DB10	FETCH	DB	100	Blocco dati	0.1	TCON_PAR	---	SIMATIC	---	---	18/10/2013 13.50.20	---	---	18/10/2
DB11	WRITE	DB	100	Blocco dati	0.1	TCON_PAR	---	SIMATIC	---	---	18/10/2013 13.56.54	---	---	18/10/2
DB20		DB	8384	DB di istanza per FB ...	0.0		---	SIMATIC	---	---	06/03/2009 11.28.10	---	---	18/10/2
DB21		DB	8384	DB di istanza per FB ...	0.0		---	SIMATIC	---	---	06/03/2009 11.28.10	---	---	18/10/2

Premere F1 per la Guida.

TCP/IP -> VMware Accelerated A

