OPCmanager

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Technical specifications

- Powerful and compact server with the OPC interfaces 1.x, 2.x and 3.x
- Complete support of current OPC specifications, such as OPC Data Access and OPC XML Data Access
- Unlimited number of connections
- Unlimited number of items
- OPCmanager projects are stored in XML format
- Real-time display of the protocol process
- Each configured control can be switched to the simulation mode, so that the external control can be dispensed with as real hardware. Since the visualization Victory, the visualfactory accesses the same control drivers as the OPCmanager, it can be used as a simulation environment.
- The connection of an item takes place in text form directly in the item table or via import of symbol tables. The format adjustment permits a type-specific processing.
- The reading intervals for each individual item can be specified ms-exactly.
- In run mode, you can switch to the item list at any time, thus reading the current setpoint and actual values, including their time stamps, as well as the status of the modules. With the help of animated symbols, the overall state of the communication can be recorded at a glance.
- Currently, the following protocols are supported:
 - S7 TCP/IP (RFC1006, CP343-1, CP443-1, S7-LAN)
 - S7 MPI / PPI
 - S5 TCP/IP H1 (RFC1006, CP143-TCP, S5-LAN, VIPA-CP)
 - S5 AS512 (RK511)
 - S5 3964R (RK512)
 - Moeller PS4/PS416
 - AEG A120/A250 (KS-Funktionen)
 - Modbus RTU/ASCII seriell, TCP/IP, DFÜ
 - IBH softec SoftPLC
 - WAGO Ethernet TCP/IP FPC
 - SAIA PLC (S-Comm)
 - Mitsubishi FX/FXN/A -Serie
 - Bosch BUEP19/19E seriell
 - Bosch BUEP19/19E TCP/IP

Create new project

To create a new project, click the New button on the OPC manager toolbar or select File \rightarrow New from the menu.

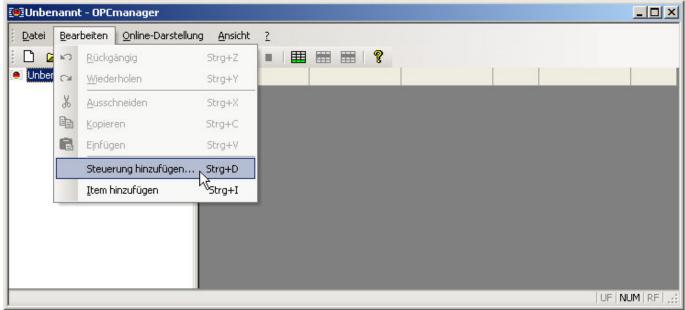
⊡ Un	benannt - OPCmana	ger					
Date	Neu R	ne-Darstellung Strg+N	ansicht		8	1	
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Erstellt	ein neues Dokument.						UF NUM RF ;

The project files of the OPC manager have .OPC as file extensions.

The project files are stored in transparent XML format. Since XML data is stored in the text format, it is possible at any time for external programs to generate project files for the OPCmanager.

Add control

To add a control, select the menu command Edit \rightarrow Add Control.



In response, the Add Controller dialog appears.

Bezeichnung	CLSID	Hinzufüge
AEG A120/A250	{1E394EF6-607C-497F-A94F-D7B92D1D4964}	
EPIS EMD-Serie	{50202F14-9E19-408A-8613-F30EFB46FEAB}	Abbreche
Hilscher AS-Interface	{8D6318BD-FCFC-11D4-9C61-00C0CA17B567}	-
Hilscher CANOpen	{8D6318B7-FCFC-11D4-9C61-00C0CA17B567}	
Hilscher ControlNet	{8D6318BA-FCFC-11D4-9C61-00C0CA17B567}	
Hilscher DeviceNet	{8D6318B2-FCFC-11D4-9C61-00C0CA17B567}	N
Hilscher Interbus-S	{5D72A9FA-F787-11D4-9C5F-00C0CA17B567}	51
Hilscher ModConnect	{8D6318C3-FCFC-11D4-9C61-00C0CA17B567}	0
Hilscher Profibus DP/FMS	{5D72A9FD-F787-11D4-9C5F-00C0CA17B567}	
Hilscher SDS	{8D6318C6-FCFC-11D4-9C61-00C0CA17B567}	
IBH softec SoftPLC	{8B2ED8C5-3D7E-4A81-9454-3F15045DAED5}	
ISYGLT® by Seebacher GmbH	{104C4200-3C7D-4230-A71F-80F3D4BEBBCC}	
Modbus Slave	{701586D9-1CF2-48E2-A34E-2C3E0B66172D}	
Moeller PS4/PS416 PLC	{B90F4C11-8D7C-46A6-BF53-85848661F265}	
SAIA S-Comm	<pre> {EC5ACAC5-BA2E-4280-9EE2-5402FAC7B943}</pre>	
Siemens 3964R	{9E6AF838-A552-479B-9952-306CE231B468}	
Siemens S5 AS511	{F30CEAD5-C4D1-43E3-9F77-41E6BA067A76}	
Siemens S5 H1	{A7920B69-E7FC-401F-8663-6AAB5AAFB386}	
Siemens S5 H1 over TCP/IP	{A6F15207-C517-4AE5-9C37-44026A2DF06C}	
Siemens S7 MPI Bus + PPI	{0A1F56D4-7035-4579-8F48-A11F7ECCBDDB}	
Siemens S7 TCP/IP	{7B080D72-898E-4DCC-B549-10C4B07D41F6}	
Victory, the visual factory - Client	{CFB7F16D-946F-46E4-A76F-5FDB6050CB5A}	
Victory4 Netfile	{ED2539C4-8980-4CEA-8E02-C4E3EC01EEB2}	
WAGO-Ethernet TCP/IP FPC	{8D624300-06A5-4203-AE47-A90FCFB3830E}	

The list contains all currently installed communication drivers of the OPCmanager. Select the desired control and then click on it, this dialog closes.

genschaften d	er Steuerung	×
Allgemein		
E Steue	ung_1	
Bezeichnung:	Siemens S7 TCP/IP	
CLSID:	{7B080D72-898E-4DCC-8549-10C4B07D41F6}	
Anschluss:		
		\mathbb{R}
	Anschlussdaten	
	ОК АЫ	brechen
		biechen

Subsequently, the control's properties dialog is opened independently.

The automatically generated name of the control is overwritten with a meaningful description. Keep in mind that this name is used as a group name in the OPC syntax of the items, Press_S7.Druck. The connection parameters of the control are entered in the text field connection. However, it is recommended to enter this data in the connection data dialog, since this data is adapted for each control.

In the case of Siemens S7 TCP / IP communication, the following dialog appears.

Anschlußdaten der	Verbindung			OK
IP-Adresse:		•a •a		
Verbindungsart:	HMI/OP-Vert	oindung zur CPU im Ra	ck des CP 💌	Abbrechen
Rack-Nummer:	0 +			
Slot-Nummer:	2 .			
Subnetz-ID:	0000 . 0	000	\searrow	
Ziel-MPI Adresse:	0			
Zeitverhalten		500 (States)		
Empfangszeitübers	chreitung nach:	100 🕂 [ms]		
Sendezeitüberschr	eitung nach:	100 📫 [ms]		
Verbindungsausfall	nach:	10000 ÷ [ms]		
Pausenzeit:		25 ÷ [ms]		
Standardwe	erte laden	J		
Optimierungsdetails				
Max. Größe eines L	.eseblocks:	111		
Max. Größe eines 9	chreibblocks:	111		
Standardwa	erte laden			

Fill out the necessary fields and then click on the OK button, then your settings are automatically transferred to the connection field of the properties dialog.

Hesse Presse	9_S7	
Bezeichnung:	Siemens S7 TCP/IP	
CLSID:	{7B080D72-898E-4DCC-B549-10C4B07D41F6}	
Anschluss:	192.172.12.80,0,2,100,100,10000,25,0FFLINE	
	Anschlussdaten	ß

If you now press the OK button, the control has been successfully created.

Add OPC Item

To create a new item, click the action button \boxplus in the toolbar of the OPCmanager or select Edit \rightarrow Add Item.

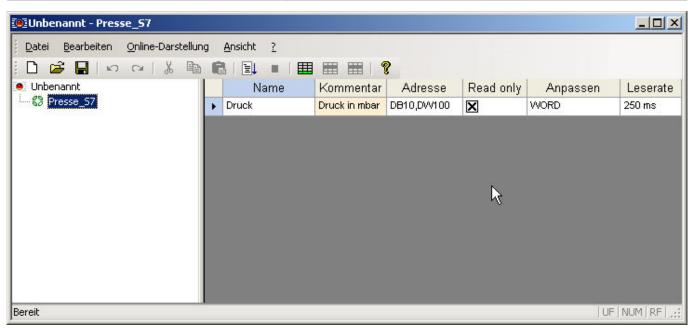
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Datei	Bear	rbeiten <u>O</u> nline-Darstellun	g <u>A</u> nsicht	2					
i 🗅 🖬	K)	<u>R</u> ückgängig	Strg+Z		🌐 📰 📰 I 💡				
Unber	04	<u>W</u> iederholen	Strg+Y	ame	Kommentar	Adresse	Read only	Anpassen	Leserate
	Ж	Ausschneiden	Strg+X						
		<u>K</u> opieren	Strg+C						
	ß	Einfügen	Strg+V						
		Steuerung hinzufügen	Strg+D						
		Item hinzufügen	Strg+I]					
	-		N						
								U	= NUM RF ;

A new row is created in the right item table.

📴 Unbenannt - Presse_S7						
Datei Bearbeiten Online-Darstellur	ig <u>A</u> nsicht <u>?</u>					
1 D 🚅 🔲 I 🗠 🖓 🗎						
	Name	Kommentar	Adresse	Read only	Anpassen	Leserate
Presse_S7	 Newltem 			X		
		2				
Bereit					UF	NUM RF ;

The individual table columns have the following meaning.

Column	Importance
Name	The name of the OPC item
Comment	A freely available text field into which information about the item can be entered
	The symbolic address of the connection is entered in this input field. The syntax varies from control to control because the implementation of the communication drivers is very important to be as close as possible to the addressing syntax of the control manufacturers
Read only	Indicates whether the item should be read-only. If this option is not activated, the item can be read and written via OPC
To adjust	If the symbolic address of the item has been entered correctly, the foldable list field for format adaptation is filled with the possible conversion forms
Readings	In which time intervals the item is to be read out of the control
Now comp	lete the item line according to your requirements.



PLC data addressing

Operand

Name	Abbreviation (Siemens, DE)	Abbreviation(IEC)
Input	E	
Output	A	Q
Flag	М	М
Peripherals	Р	Р
Counter	Z	С
Data Block	DB	DB
Timer	Т	16

Data types

Name	Abbreviation	Bit size	Range	Description	Array
BOOL	Х	1	0 to 1	single bit representing true (1) or false (0)	x
BYTE	В	8	0 to 255	unsigned 8-bit	x
WORD	W	16	0 to 65.535	unsigned 16-bit (Word)	x
DWORD	D	32	0 to 2 ³² -1	unsigned 32-bit (Double Word)	x
CHAR	В	8	A+00 to A+ff	ASCII-Code unsigned 8-bit character	x
INT	W	16	-32.768 to 32.767	signed 16-bit integer	x
DINT	D	32	-2 ³¹ to 2 ³¹ -1	signed 32-bit integer (Double Word)	x
REAL	D	32	+-1.5e-45 to +-3.4e38	IEEE754 32-bit single precision floating point number	x
S5TIME	W	16	00.00:00:00.100 to 00.02:46:30.000	binary coded decimal (BCD) number representing a time span	

Name	Abbreviation	Bit size	Range	Description	Array
TIME	D	32	00.00:00:00.000 to 24.20:31:23.647	signed 16-bit integer representing a time span in milliseconds	
TIME_OF_DAY	D	32	00.00:00:00.000 to 00.23:59:59.999	unsigned 16-bit integer representing a time span in milliseconds	
DATE	W	16	01.01.1990 to 31.12.2168	unsigned 16-bit integer representing a date in days	
DATE_AND_TIME	D	64	00:00:00.000 01.01.1990 to 23:59:59.999 31.12.2089	binary coded decimal (BCD) number representing a date and time	
S7String	В	any	A+00 to A+ff	ASCII-Code, max. 254 Bytes	

The variables are composed of operand and data type. Examples:

Examples	Data type	Example Siemens	Example IEC
Input Byte 1, Bit 0	BOOL	E 1.0	I 1.0
Output Byte 1, Bit 7	BOOL	A 1.7	Q 1.7
Flag Byte 10, Bit 1	BOOL	M 10.1	M 10.1
Data Block 1, Byte 1, Bit 0	BOOL	DB1.DBX 1.0	DB1.DBX 1.0
Input Byte 1	BYTE	EB 1	IB 1
Output Byte 10	BYTE	AB 10	QB 10
Flag Byte 100	BYTE	MB 100	MB 100
Peripherals Input Byte 0	BYTE	PEB 0	PIB 0
Peripherals Output Byte 1	BYTE	PAB 1	PQB 1
Data Block 1, Byte 1	BYTE	DB1.DBB 1	DB1.DBB 1

Data Block 1, Data Block 1 Typ bool, Address $1.0 \rightarrow DB1.DBX 1.0$ Data Block 1, Data Block Typ Byte, Address $1 \rightarrow DB1.DBB 1$ Peripherals Input, Typ DWORD, Address $0 \rightarrow PED 0$

Help:

DB#.DBB # = Data Block#.Data Block Byte #

DB#.DBW # = Data Block#.Data Block Word #

DB#.DBD # = Data Block#.Data Block Doubleword #

= Address

The following extensions can be added to the address syntax for a data type adaptation by OPC clients that create items generically. The following are permitted as separators , or :

Extension	Converts data type	by data type	Example
,char	byte, 8-Bit	char, 8-Bit	MB10, char \equiv Flag byte 10 as a char data type
,int	byte, 8-Bit unsigned short, 16-Bit unsigned long, 32-Bit		MD0,int \equiv Flag word 10 as char-Data type DB10.DBW0,int \equiv Data word 0 as int-Data type DB20.DBD4,int \equiv Data double word 4 as long-Data type
,float bzw. ,real	unsigned long, 32-Bit	double, according to IEEE	DB20.DBD0,real \equiv Data dooble word 0 as real-Data type
,string	byte,8-bit	string, 255 byte	MB100,STRING
,sung	byte,8-bit	string, 40 byte	MB100[40],STRING

Arrays are addressed with the addition [* length *].

WAGO address syntax

Syntax	Data type	Address area
%In	Digital input, 1-Bit	0 - 255
%IXn	Digital input, 1-Bit	0 - 255
%IWn	Analog input, 16-Bit	0 - 511
%Qn	Digital output, 1-Bit	0 - 255
%QXn	Digital output, 1-Bit	0 - 255
%QWn	Analog output, 16-Bit	0 - 511
%RWn	Configuration register, 16-Bit	4096 - 8191 (0x1000 - 0x1FFF)
%MWn	Flag, 16-Bit	0 - 4095

Overview of editing symbols

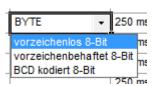
Symbol	Description
	Adds a new line at the end. Alternatively, at the end of the line, press "Enter"
***	Adds a new line to the selected row
	Deletes the selected row(s)

Overview Data type / possible formatting

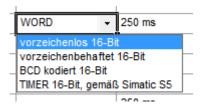
Bit

+	2
	2
	•

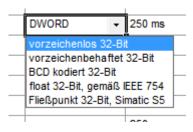
Byte



Word



DWord



Array

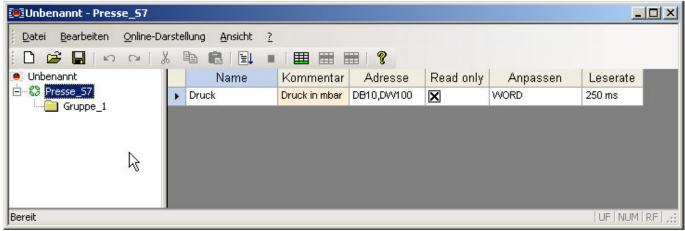
	[BYTE] - 250 ms
	String (8-Bit Zeichensatz)
	Array (vorzeichenlos 8-Bit)
	Array (vorzeichenbehaftet 8-Bit)
	Array (BCD kodiert 8-Bit)
	S7 String (8-Bit Charset)
l	[011(in0] 200 ma
I	[DWORD] - 250 ms
1	Array (vorzeichenlos 32-Bit)
	Array (vorzeichenbehaftet 32-Bit)
	Array (BCD kodiert 32-Bit)
	Array (float 32-Bit, gemäß IEEE 754)
	Array (Fließpunkt 32-Bit, gemäß Simatic S5)
F	
L	[WORD] - 250 ms
	Array (vorzeichenlos 16-Bit)
	Array (vorzeichenbehaftet 16-Bit)
	Array (BCD kodiert 16-Bit)
	Array (TIMER 16-Bit, gemäß Simatic S5)

Add Group

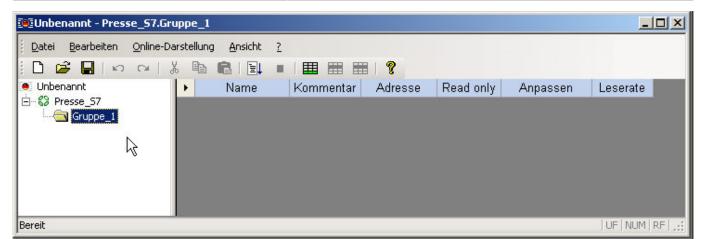
To create a new group, click the node with the right mouse button in the left overview tree. In the pop-up menu, select the Add Group menu item.

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	peiten <u>O</u> nline-Darstellung	Ansicht <u>?</u>		8			
 Unbenannt ເງິງ Presse _ 	1	Name	Kommentar		Read only		Leserate
	Steuerung hinzufügen Steuerung löschen Umbenennen	Truck	Druck in mbar	DB10,DW100	X	WORD	250 ms
	Gruppe hinzufügen Item hinzufügen						
	Eigenschaften						
Bereit						14	JF NUM RF .;;

The tree is then extended by a corresponding entry.



If you click on the group, the empty item table of the group is displayed.



To rename the group, right-click it and select the Rename menu item.

Indenannt - Presse_S7.Gruppe_1	
Datei Bearbeiten Online-Darstellung Ansicht ?	
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● Unbenannt	Leserate
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Indenannt - Presse_S7.Gruppe_1	
Datei Bearbeiten Online-Darstellung Ansicht ?	
□ 📽 🔚 I 🕫 📾 📾 I 🗐 📾 🖬 🖁 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Unbenannt Name Kommentar Adresse Read only Anpassen	Leserate
È- S Presse_57	UF NUM RF

Then enter an appropriate group name.

Start the online presentation

To start the online presentation, click on the > button or select the menu command Online-Display \rightarrow Display on.

<u>D</u> atei <u>B</u> earbeiten	Onlin	ne-Darstellung	Ansicht	2					
🗅 🗃 🔚 🗠	E1	Anzeige <u>e</u> in	N F5		II III III I 1	?			
🖲 Unbenannt		Anzeige aus	Stra+F5	ie	Kommentar	Adresse	Read only	Anpassen	Leserate
Presse_S7					Druck in mbar	DB10,DW100	X	WORD	250 ms

In the online view, the OPCmanager automatically decouples all the configured items, that is, This also creates a maximum of communication to the control, since the OPCmanager requests all items for display.



Additional table columns are displayed in the online display.

Column	Importance
Format	Specifies the format in which the actual and target data are to be displayed. Possible forms are decimal, hexadecimal, and binary representation
Target	The last setpoint that was passed to the item and the time stamp when the setpoint was positively passed to the controller
Actual	The current actual value of the item and the corresponding time stamp when the actual value was read by the controller
Status	Specifies the connection status of the item for control

To stop the online display, click on the \blacksquare button or select the menu command Online-Display \rightarrow Display.

- If an OPC client is connected to the OPCmanager after it has been started as an application, the running OPCmanager application functions as an OPC server and also as a configuration surface.
- In the current OPCmanager release, you can only start the online display if the OPCmanager does not run as a stand-alone background process. The OPCmanager is only started as a background process if an OPC client with the OPCmanager as a server is active. In the task manager of the operating system, you can check whether the OPCmanager is entered in the Processes tab even though you have not started it as an application

Anwendungen Prozes	sse Systemleistung	Netzwerk Ben	utzer	
	1		_	[
Name	Benutzername	Sitzungsk	C	Speicher 🔺
LinkToSiemens.exe		0	00	4.436 K
OPCmanager.exe	Heribert	0	00	6.860 K
KHALMNPR.EXE	Heribert	0	00	3.228 K
notepad.exe	Heigibert	0	00	572 K
CalCheck.exe	Heribert	0	00	3.104 K
SrvMod.exe	Heribert	0	00	2.300 K
SetPoint.exe	Heribert	0	00	6.952 K 🗕
msmsgs.exe	Heribert	0	00	1.004 K
LogitechDesktopM.	Heribert	0	00	2.112 K
wcescomm.exe	Heribert	0	00	3.700 K
soffice.bin	Heribert	0	00	68.484 K
STRAY.EXE	Heribert	0	00	3.108 K
qttask.exe	Heribert	0	00	2.108 K
PDVDServ.exe	Heribert	0	00	2.856 K
BJPSMAIN.EXE	Heribert	0	00	2.980 K
MediaLifeService	. Heribert	0	00	5.588 K
AVGNT.EXE	Heribert	0	00	4.192 K
SCMA.exe	Heribert	0	00	5.016 K
mptbox.exe	Heribert	0	00	4.120 K 💌
✓ Prozesse aller Be	nutzer anzeigen			Prozess beenden

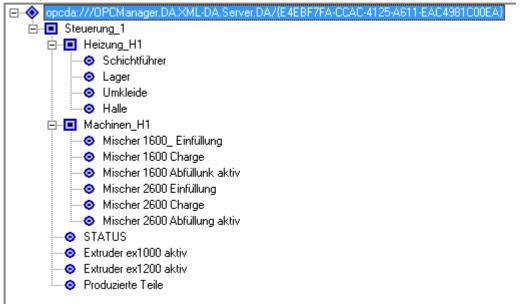
If the OPCmanager is listed as in the screenshot above, although the OPCmanager is not started as an application, it is used by an OPC client. If you first terminate the corresponding OPC client, then you can use the OPCmanager as an application for parameterization and online display.

Connect OPC-Client

- Open your OPC client
- The url to the OPCmanager is: (opcda:///OPCManager.DA.XML-DA.Server.DA/)

Now you can connect and browse the data or add variables that are not yet created and required. The data in {} is a unique ID that can be specified.

Example:



OPC Address

The OPC address is constructed as follows: "Connection name". "Node if present". "Variables name"

For example, To read out the temperature in the shift room, enter the following address: Control_1.Heating_H1.Schichtführer

OPC paths / files

Path	Description
C:\ProgramData\OPCmanager	Main path of the log and ServiceFile file
C:\ProgramData\OPCmanager\Logfile.txt	This contains information that can be used for problem analysis. If necessary, this is to be made available to us so that problems can be solved promptly.
C:\ProgramData\OPCmanager\ServiceFile.txt	Contains the project to open at the start as a service. The "File \rightarrow File for service saving" must be saved by the menu item. This can be done from any user account.
C:\Program Files\OPCmanager	Location Application Data
C:\Program Files\OPCmanager\ReleaseNotes.txt	Version history
C:\Program Files\OPCmanager\OPCmanager.chm	help file

OPCManager as a service



In the Start menu, here, e.g. Windows 8.1, you will find the menu item "OPCmanager as service" under "OPCmanager".

To run, you need **Admin** (right click→ "Run as Admin")

The project to be executed is defined with "File \rightarrow Save file for service". This project applies to all user accounts defined on the system.

Cimplicity

- (E.g. With Softing OPC S7, exchange, and continue the ConnectionString
- Do not use umlauts
- Spaces and "-" are automatically replaced with "_"
- Maximum total length: 33 characters with dots!
- Browsing is performed under User Context
- When the application is started, the OPC Manager is run under Admins
- Errors during browsing may cause the OPCManager to not read data
- Install OPCManager as a service to prevent service problems
- ALt + F4 / Exit does not stop the started Cimplicity clients! (OPC Manager can not be stopped and changed)
- Note the case (connection / node / group)

Settings S7-1200/S7-1500/Logo

S7-1200/1500

The optimized block access needs to be deactivated in the data block attributes for access to the S7-1500 and S7-1200.

OPCmanager

Information	Attributes
Time stamps Compilation Protection Attributes Download witho	 Only store in load memory Data block write-protected in the device Optimized block access deactivate

In the S7-1500 must be enabled in the communication setting in addition to the PUT / GET access . How this works you see here (snapshot from TIA Portal) .

General IO tags	System constants	Texts
General PROFINET interface [X1] Startup Cycle	TIA Portal users No password is	and HMI applications will have access to all functions.
Communication load System and clock memory SIMATIC Memory Card System diagnostics PLC alarms Web server DNS configuration		
 Display Multilingual support Time of day Protection & Security OPC UA 	Connection mec	hanisms Permit access with PUT/GET communication from remote partner

LOGO!

1. Use the Logo Soft Comfort the IP address of a logo! PLCs:

Dptionen	×						
Standard-Editor Sprache	Schnittstelle						
Dokumentenanzı 🛒 Bildschirm	C LOGO! Kabel C Ethernet						
🗿 Drucken	Name IP-Adresse Subnetzm Gateway Status						
>% Verbindungen au Schnittstelle	LOGO!						
Farben Look and Feel	IP-Adresse: 169.254.58.10 Subnetzmaske: 255.255.255.0						
UDF	Gateway:						
	OK Abbrechen						
	Erkennen Hinzufügen Löschen Bearbeiten						
	Vor der Kommunikation bestätigen?						
	OK Abbrechen Hilfe						

2. Configure PLCs so that connections from an HMI device accepted the Logo!. To do so, go to "Tools- > Ethernet Connections" and then add a new connection.

្លា	Adresse und Verl	oindungen konfigurieren	×
	Noduladresse		
	IP-Adresse:	169.254. 58. 10	
	Subnetzmaske:	255.255.255.0	
	Gateway:		
F	eer-to-Peer-Verbind	lungen	
	€ Ethernet-Ve	erbindu Verbindung hinzufü	igen
		I	
			_
	ОК	Abbrechen Hilfe	

3. Double-click on the newly created connection to access the properties.

Verbindung1(Server)	×
Clientverbindung: fordert Datenübertragung zwischen lokalem PC und dezentraler SPS an	
Server-Verbindung: antwortet auf Verbindungsanforderungen dezentraler Clients	
Eigenschaften lokaler Verbindungen (Server)	
TSAP 02.00	
Mit Operator Panel (OP) verbinden	
Alle Verbindungsanforderungen akzeptieren.	
Nur diese Verbindung:	
-Keep Alive (Verbindungskontrolle)	
Keep-Alive-Funktion für diese Verbindung aktivieren	
Keep-Alive-Intervall: 0 🚍 I Sekunden	
OK Abbrechen Hilfe	1

Select:

- 1. Server Connection
- 2. Local TSAP: 02:00 02:00 decentralized TSAP
- 3. accept all connections.

You can access DB1, inputs , outputs, flags , counters and timers with IP -S7 -LINK . Now put on "Tools- > VM parameter map " the variables that are to be transferred to the DB1.

WinCC (TIA-Portal) Variablentabelle

Standard-Variablentabelle					
Name 🔺	Datentyp	Verbin	dung		Adresse
🛛 🕘 Ein-/Ausschaltverzöge.	Word	Verbir	dung_1		VW 0
<hinzufügen></hinzufügen>					4
1.00010-#.0					/
LOGO!Soft Comfor	τ			/	
· · · · · · · · · · · · · · · · · · ·		 	· · · · ·	111	
· B002. · ·	Q' 	1 <mark>- 1</mark>	· · · · ·	::/:	· · · · · ·
··└── · · · · · · · · · · · · · · · · ·		¹ -: : :	· · · · ·		· · ·
	.			:1::	
Konfiguration de variable	n Speichers				×
Parameter-VM-Zyordnung					
ID Block	Paramet	er	Тур	Adre	
1 🕂 B002 [Ein-/Ausscha A				0	
			word	0	
2					
🐉 B001 [Analogverstärk					
B002 [Ein-YAusschaltv					
OK Abbrechen Hilfe					
					-
Al1	· · · · · · · · ·	· · · · · ·			
· AI · · ·	· · · · · · · AL	.			
	A	╹╴∶∶			
	· · · · · · · · ·				
Point≑0					

Table of Contents

Technical specifications	. 2
Create new project	
Add control	
Add OPC Item	6
PLC data addressing	. 7
Operand	. 7
Data types	
WAGO address syntax	. 9
Overview of editing symbols	
Overview Data type / possible formatting	
Bit	. 9
Byte	. 9
Word	. 9
DWord	. 9
Array	10
Add Group	10
Start the online presentation	11
Connect OPC-Client	13
OPC Address	13
OPC paths / files	13
OPCManager as a service	
Cimplicity	14
Settings S7-1200/S7-1500/Logo	14
\$7-1200/1500	14
LOGO!	15