



Welcome

PC WORX

Tipos de software, equipos y ejemplos

Agenda

- PC WORX
 - Tipos de Software
 - Equipos
 - Ejemplos
-





PC WORX

PC WORX

Worldwide consistent programming – IEC 61131

Integrated software-tools

Fast and flexible programming

- Additional standard libraries

Extensible

- User functions
- Function blocks or libraries

Easy handling

- Intuitive user interface
- Clear structures



One software for every engineering step



PC WORX – IEC 61131

All programming languages

PLC networks

Free graphical editor

The screenshot displays the PC WORX IEC 61131 software interface. The main workspace shows a ladder logic network with two CTUD (Counter Up/Down) blocks and several input/output variables. A 'Watch Window' is open, displaying a table of variables and their values. A 'Cycle consistent logic analyzer' window is also visible, showing a timing diagram with multiple signals. The interface includes a project tree on the left, a toolbar at the top, and a status bar at the bottom.

Variable	Value	Default value	Type
Container_Status	TRUE	TRUE	Container_Status_Byte
Churn	FALSE	FALSE	Container_Status
Heater	FALSE	FALSE	BOOL
Heater	FALSE	FALSE	BOOL
Level	80	80	INT
Temp	25	25	INT
Status_of_container	Heater: CLOSE The	Heater: CLOSE The	STRING
Values_of_container	Level: 80 User Temp	Level: 80 User Temp	Container_Status

Command	I/O Address	Global Path
Container_Status	STD_CNF_STD_1	STD_CNF_STD_1
Container_Status	STD_CNF_STD_1	STD_CNF_STD_1
Container_Status	STD_CNF_STD_1	STD_CNF_STD_1
Container_Status	STD_CNF_STD_1	STD_CNF_STD_1
Container_Status	STD_CNF_STD_1	STD_CNF_STD_1
Container_Status	STD_CNF_STD_1	STD_CNF_STD_1
Container_Status	STD_CNF_STD_1	STD_CNF_STD_1
Container_Status	STD_CNF_STD_1	STD_CNF_STD_1
Container_Status	STD_CNF_STD_1	STD_CNF_STD_1
Container_Status	STD_CNF_STD_1	STD_CNF_STD_1

Editor-assistent

Watch windows

Cycle consistent logic analyzer

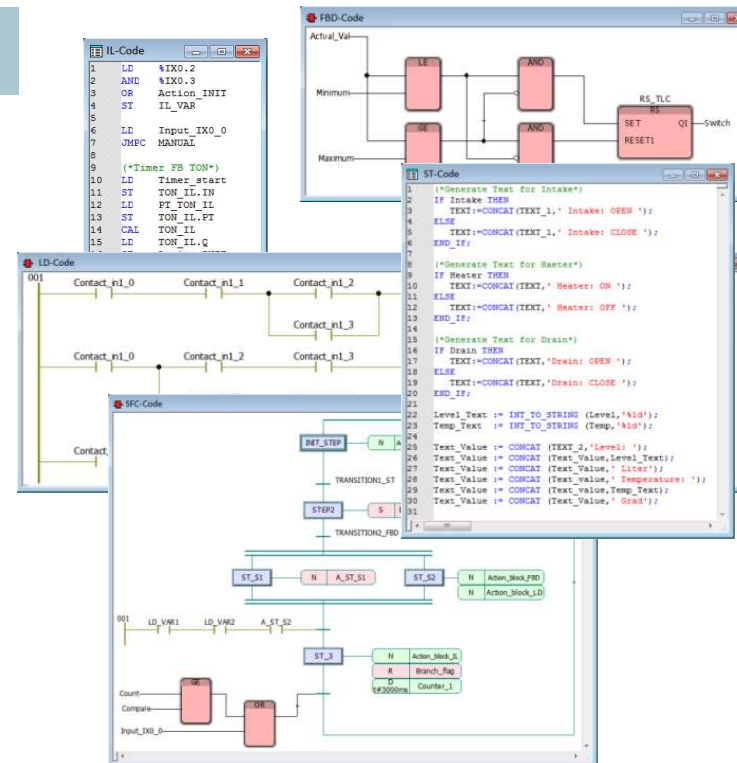
One programming system for all controllers

PC WORX – IEC 61131

Fast start with project templates

- Ladder logic (LD)
- Fixed format ladder logic (FFLD)
- Function block diagram (FBD)
- Instruction list (IL)
- Structured text (ST)
- Sequential function chart (SFC)

 **Easy handling**

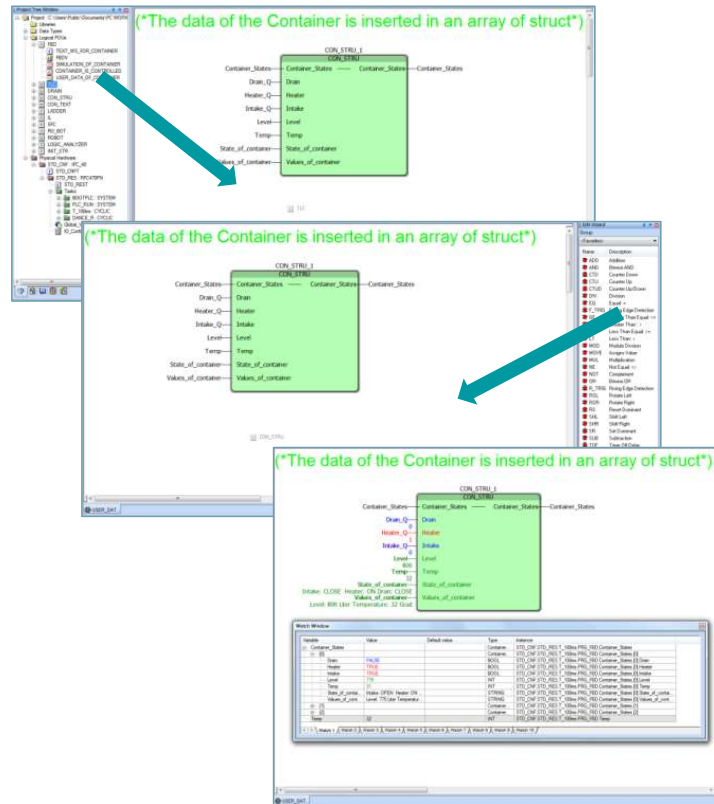


PC WORX – IEC 61131

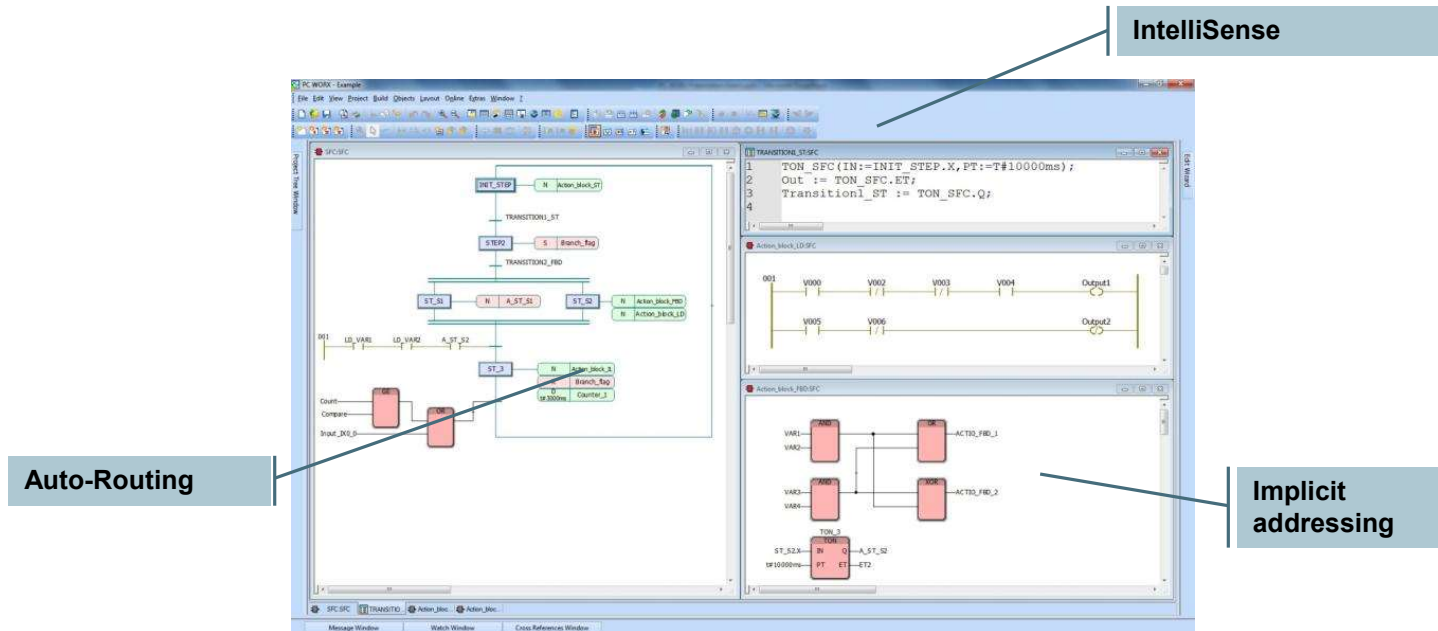
Consistent Drag & Drop

- Project tree
- Editor assistant
- Variable editor
- Watch windows
- Logic analyzer

 Easy programming



PC WORX – IEC 61131 editors

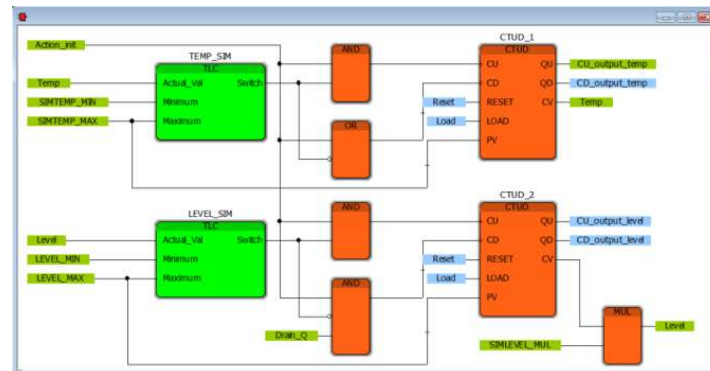
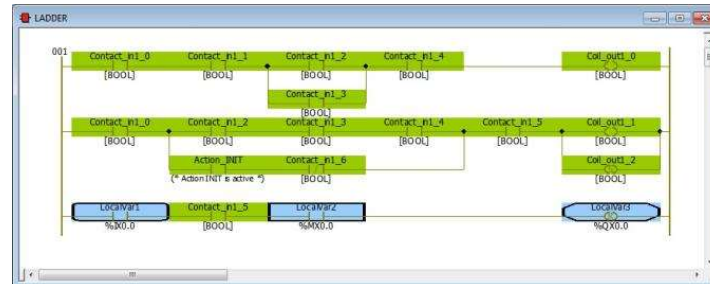


Free graphical or network based programming

PC WORX – Graphical programming

LD and FFLD

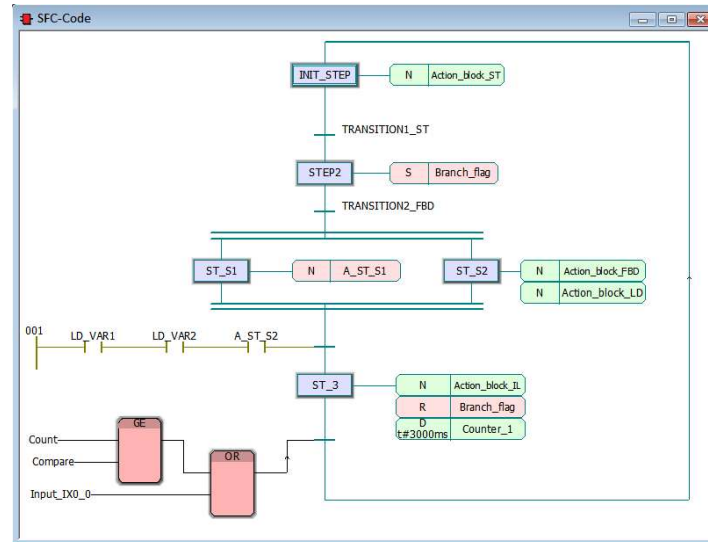
- Free graphical or network based programming
- ST-statements possible (IF, THEN, ELSE)
- LD and FFLD objects mixable
- Auto-Routing
- Easy keyboard handling – programming without mouse



PC WORX – Graphical programming

SFC

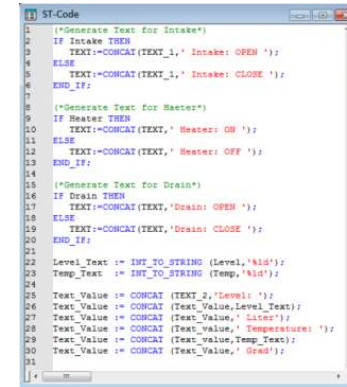
- Automatic insert and placing of objects
- Actions and transitions in all base IEC 61131-3 languages
- Auto routing
- Easy keyboard handling – programming without mouse



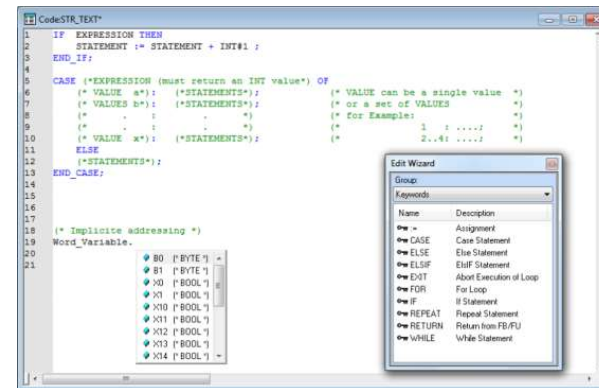
PC WORX – Network based programming

IL and ST

- Syntax highlighting
- Editor assistant for keywords, functions and function blocks
- Context sensitive menus



```
1 (*Generate Text for Intake*)
2 IF Intake THEN
3   TEXT:=CONCAT(TEXT_1,' Intake: OPEN ');
4 ELSE
5   TEXT:=CONCAT(TEXT_1,' Intake: CLOSE ');
6 END_IF;
7
8 (*Generate Text for Heater*)
9 IF Heater THEN
10  TEXT:=CONCAT(TEXT,' Heater: ON ');
11 ELSE
12  TEXT:=CONCAT(TEXT,' Heater: OFF ');
13 END_IF;
14
15 (*Generate Text for Drain*)
16 IF Drain THEN
17  TEXT:=CONCAT(TEXT,' Drain: OPEN ');
18 ELSE
19  TEXT:=CONCAT(TEXT,' Drain: CLOSE ');
20 END_IF;
21
22 Level_Text := INT_TO_STRING (Level,'%ld');
23 Temp_Text := INT_TO_STRING (Temp,'%ld');
24
25 Text_Value := CONCAT (TEXT_2,'Level: ');
26 Text_Value := CONCAT (Text_Value,Level_Text);
27 Text_Value := CONCAT (Text_Value,' Lines');
28 Text_Value := CONCAT (Text_Value,' Temperature: ');
29 Text_Value := CONCAT (Text_Value,Temp_Text);
30 Text_Value := CONCAT (Text_Value,' Grad');
31
```



```
1 IF EXPRESSION THEN
2   STATEMENT (* STATEMENT = INT#1 *)
3 END_IF;
4
5 CASE (*EXPRESSION (must return an INT value*) OF
6   (* VALUE a*): (*STATEMENTS*); (* VALUE can be a single value *)
7   (* VALUES b*): (*STATEMENTS*); (* or a set of VALUES *)
8   (* . 1 . *) (* For Example: *)
9   (* . 1 . *) (* 1 2 ....2 *)
10  (* VALUE x*): (*STATEMENTS*); (* 2..4i ....2 *)
11 ELSE
12  (*STATEMENTS*);
13 END_CASE;
14
15 (* Implicit addressing *)
16 Word_Variable.
17
18 00 ['BYTE']
19 01 ['BYTE']
20 02 ['BOOL']
21 03 ['BOOL']
22 04 ['BOOL']
23 05 ['BOOL']
24 06 ['BOOL']
25 07 ['BOOL']
26 08 ['BOOL']
27 09 ['BOOL']
28 10 ['BOOL']
29 11 ['BOOL']
30 12 ['BOOL']
31 13 ['BOOL']
32 14 ['BOOL']
```

Name	Description
:=	Assignment
CASE	Case Statement
ELSE	Else Statement
ENDIF	End Statement
EXIT	Abort Execution of Loop
FOR	For Loop
IF	If Statement
REPEAT	Repeat Statement
RETURN	Return from FB/FU
WHILE	While Statement

PC WORX – Variable management

The screenshot displays the PC WORX software interface. The top window, titled 'FBD/FBD', contains a table of variables. Below this, a green text overlay reads: (*The Container is controlled and Text information is generated*)

The diagram below the text shows three main components: 'TLC_Level', 'TLC_Temp', and 'CON_TEXT_1'. 'TLC_Level' and 'TLC_Temp' are green boxes with inputs for 'Actual_Val', 'Switch', 'Minimum', and 'Maximum'. 'CON_TEXT_1' is a green box with inputs for 'Intake', 'Heater', 'Drain', 'Level', and 'Temp', and outputs for 'Text' and 'Text_Value'. The diagram illustrates the flow of data and control signals between these components, including a 'DRAIN_1' block and a 'Heater_Q' block.

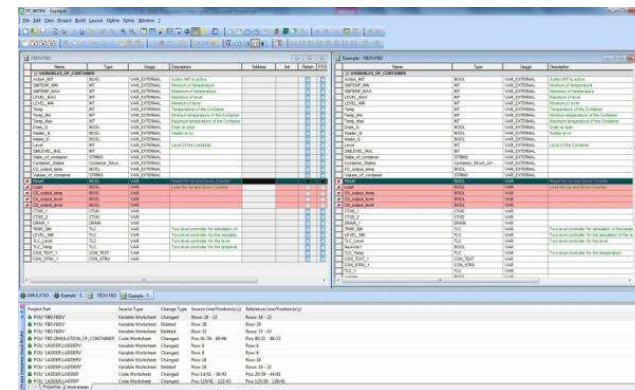
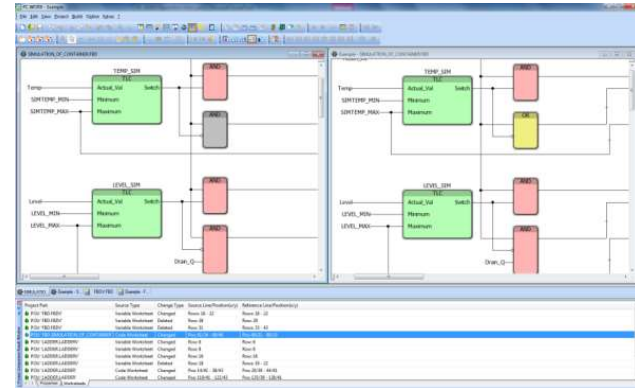
Name	Type	Usage	Description	Address	Int	Retain	PCC	OPC	TB	Hidden	Intvalue as	Default Hid	LG	Connection
VARABLES_OF_CONTAINER	VAR_EXTERNAL		Action BIT is active											
SWTEMP_MIN	INT	VAR_EXTERNAL	Minimum of temperature											
SWTEMP_MAX	INT	VAR_EXTERNAL	Maximum of temperature											
LEVEL_MAX	INT	VAR_EXTERNAL	Maximum of level											
LEVEL_MIN	INT	VAR_EXTERNAL	Minimum of level											
Temp	VAR_EXTERNAL		Temperature of the Container											
Temp_Min	VAR_EXTERNAL		Minimum temperature of the Container											
Temp_Max	VAR_EXTERNAL		Maximum temperature of the Container											
Drain_Q	VAR_EXTERNAL		Drain is open											
Heater_Q	VAR_EXTERNAL		Heater is on											
Intake_Q	VAR_EXTERNAL		Intake is open											
Level	VAR_EXTERNAL		Level of the Container											
SWLEVEL_MIN	INT	VAR_EXTERNAL	Minimum of level											
State_of_container	VAR_EXTERNAL		State of the Container											
Container_Status	VAR_EXTERNAL		Container Status											
CU_output_temp	VAR_EXTERNAL		CU output temperature											
Values_of_container	VAR_EXTERNAL		Values of the Container											
Reset	VAR		Reset the Up and Down Counter											
Load	VAR		Load the Up and Down Counter											

Assistants monitor every step | errors are displayed visually

PC WORX – Features

Online und Offline

- Own workspace for program comparison
- Differences will be shown vice versa and highlighted
- Differences in configuration settings will be listed
- Print of differences possible



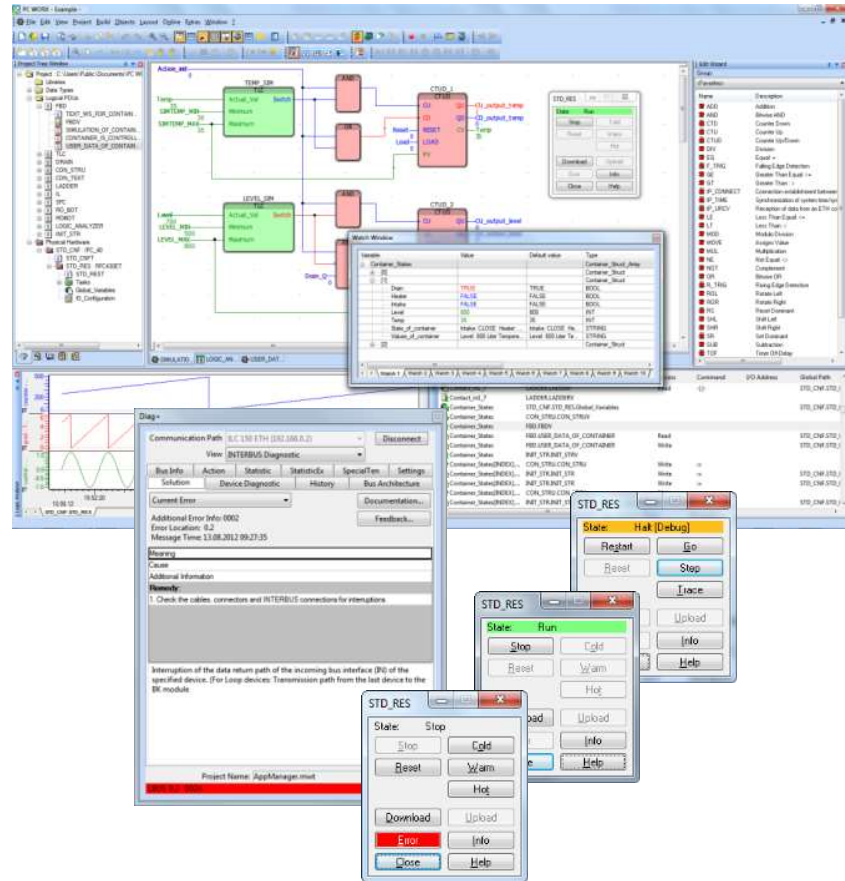
PC WORX – Features

Program und network

- Logic analyzer
- Breakpoints / Single step
- Online debug in libraries
- Instance debug
- Watch windows / recipe management
- Force list
- Plain text messages of PLC errors
- Network- and field bus diagnostic



Easy commissioning and troubleshooting



PC WORX – Features

Network- and bus configuration

Configuration, parametrization and diagnostic:

- INTERBUS
- PROFINET
- MODBUS
- PROFIBUS
- Ethernet

FDT/DTM Technology



Open and uniform



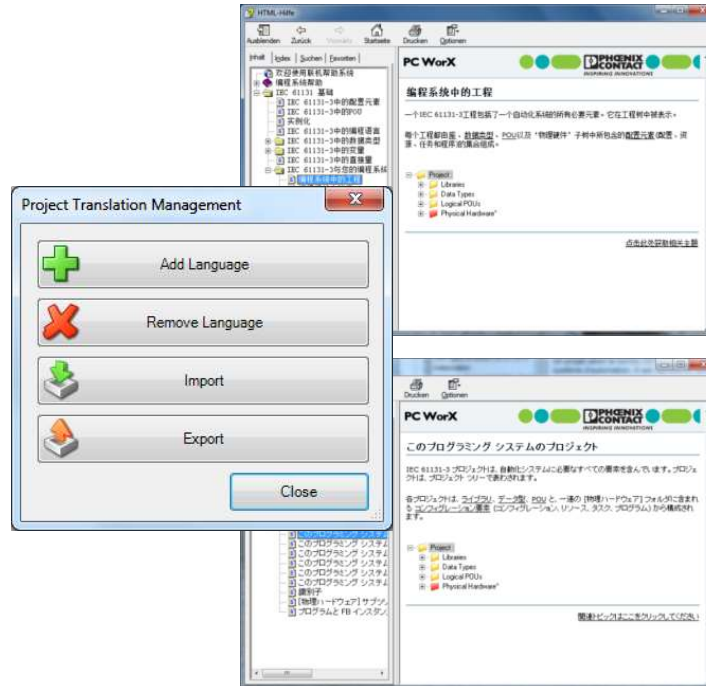
Ethernet



PC WORX – Features

Usable worldwide

- English
- German
- Spanish
- French
- Italy
- Chinese



 **Easy project translation management**

PC WORX – Features

Projekt documentation

Print layout configurable with comfortable page layout editor

User defined documentation for:

- Projects
- Libraries
- Function block functions

POU: FBD_1, Description: TEXT_WS_FOR_CONTAINER
This POU is used to control the container.

In the worksheet **SIMULATION_OF_CONTAINER** the level and temperature are simulated.
In the second worksheet **CONTAINER_IS_CONTROLLED** the container is controlled.

POU: FBD_1, Variables: FBD_1V

Name	Type	Usage	Description	Is it a global variable?	Is it a local variable?	Is it a parameter?	Is it a device?	Signal	Address	Bit	Byte	Word	Dword
VARIABLES OF CONTAINER													
Alarm_In	BOOL	VAR_IN	Alarm-In										
CONTAINER_MIN	INT	VAR_IN	Minimum										
CONTAINER_MAX	INT	VAR_IN	Maximum										
LEVEL_MAX	INT	VAR_IN	Maximum										
LEVEL_MIN	INT	VAR_IN	Minimum										
Temp	INT	VAR_IN	Temperature										
Temp_Min	INT	VAR_IN	Minimum										
Temp_Max	INT	VAR_IN	Maximum										
Drawn_In	BOOL	VAR_IN	Draw-In										
Drawn_Out	BOOL	VAR_IN	Draw-Out										

Time diagram

The input IN changes from FALSE to TRUE, switching on a delay for the duration of the time interval applied to the input PT. After PT has passed, Q is set to TRUE. The elapsed time interval is indicated at the output ET.

Function block FBD_1

The input IN and the output Q can be negated.

Time diagram

Function blocks have to be **substituted**. An instance name of your choice must be declared in the variables worksheet of the POU where the FB is going to be used (declaration using VAR keyword). The instance name must be unique within the POU. In the example below the instance name "WATCHDOG_TIMER" is used.

Ladder Logic Diagram

The diagram shows a ladder logic network with several function blocks (FBs) and a timer (T1). The inputs are IN, IN Neg, and IN Neg. The outputs are Q and Q Neg. The timer T1 is set to PT. The output ET is shown in the time diagram.

PC WORX

Phoenix Contact GmbH & Co. KG
Postfachstraße 4
33031 Bielefeld
Germany

Sheet number: 1

Current POU: FBD_1

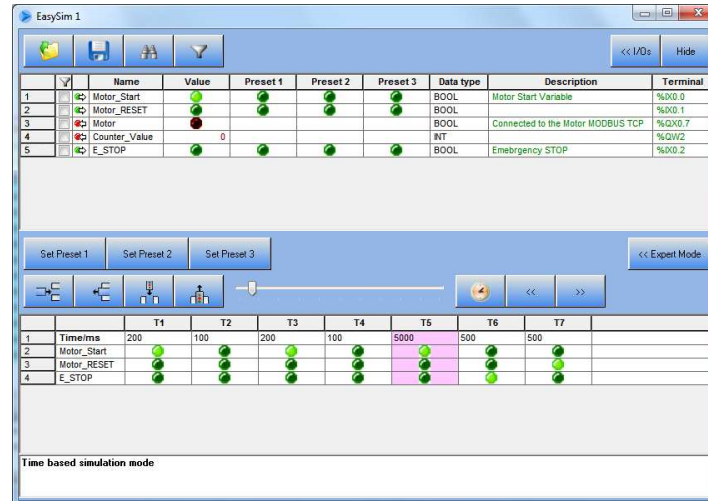
Example

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PC WORX – Features

Simulation

- Read and write IO Variables
- Time based simulation of your process
- Comment every simulation step
- Store and reopen the configuration of your simulation

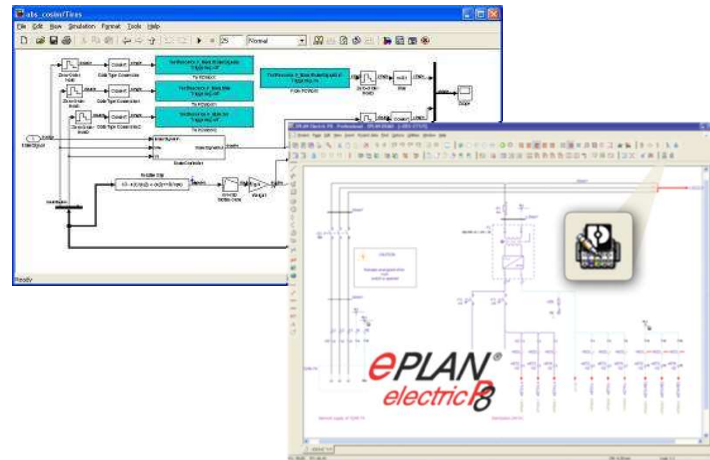


PC WORX – features

Interfaces

- Simulation with WinMOD
- Code generation with Matlab/Simulink® and Stateflow
- PLCopen XML import and export
- EPLAN interface
- Project+ interface
- FDT/DTM

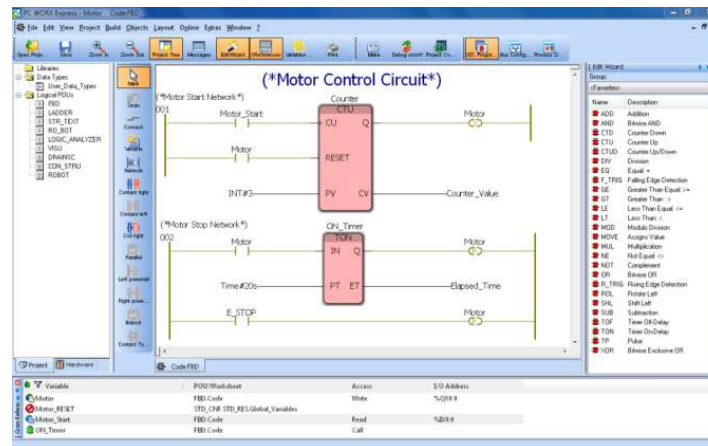
 **Consistency**



PC WORX – features

Easy Automation - EXPRESS

- Free IEC 61131-3 engineering tool
- For all PLC's of the 1xx class
- Inclusive configuration and diagnostic

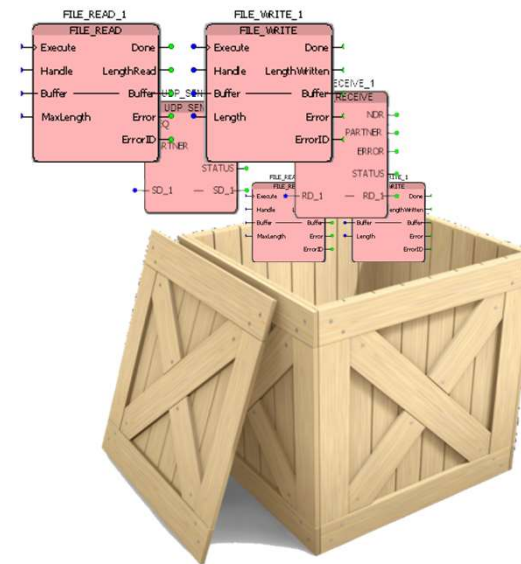


Free download: www.phoenixcontact.com

PC WORX – features

Prefabricated libraries

- Analog signal processing
- Control engineering
- IT libraries
- SMTP, SNMP, SQL, FTP Function block libraries
- Building automation
- MODBUS RTU
- Positioning
- CAN open
- And much more...

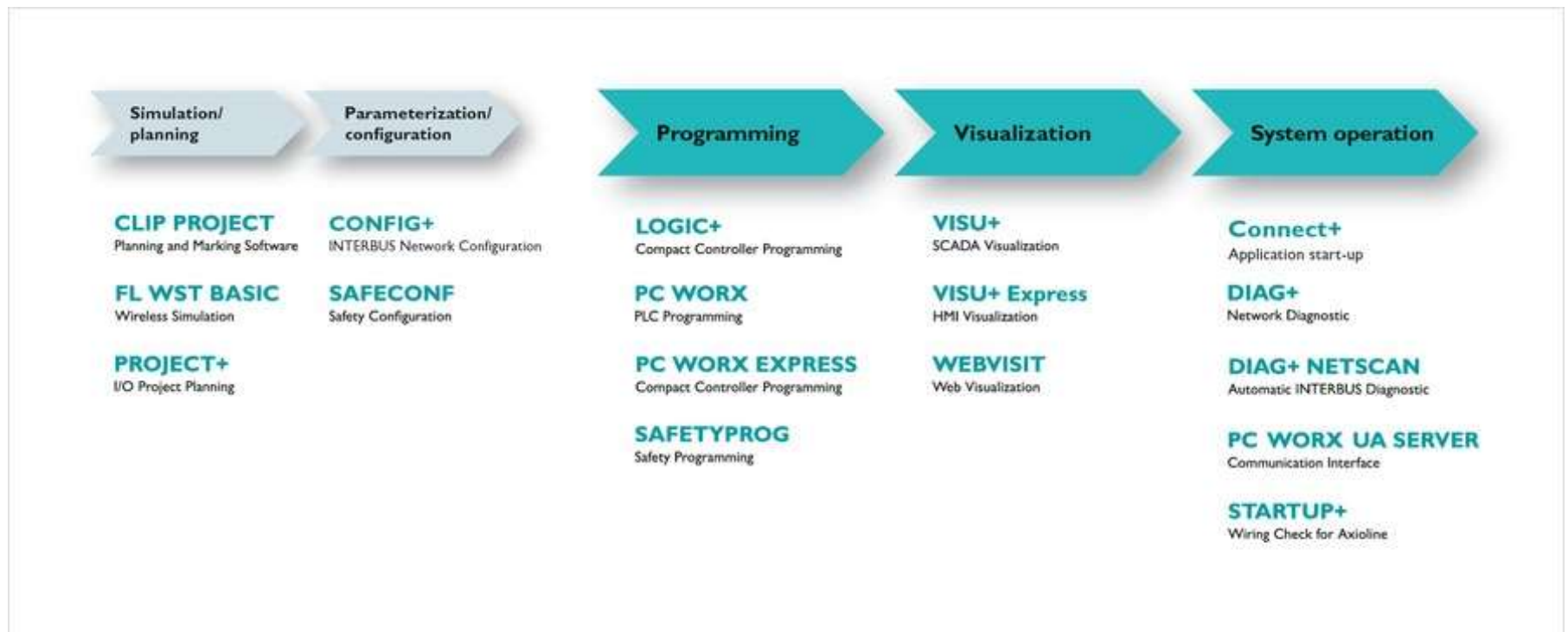




Tipos de Software

Software

AUTOMATIONWORX



Softwares de Automatización

AUTOMATIONWORX Software



Software

AX SW SUITE

The AUTOMATIONWORX Software Suite is a comprehensive collection of optimally coordinated software tools for the Automation Worx automation system consisting of

PC WORX
PC WORX EXPRESS
DIAG+
DIAG+ NETSCAN
CONFIG+
VISU+
VISU+ EXPRESS
WEBVISIT
AX OPC SERVER



2985660 AX SW SUITE DEMO

Softwares

PC WORX

PC WORX EXPRESS

PC WORX

PLC programming

PC WORX DEMO Order No. [2985725](#)
PC WORX BASIC LIC Order No. [2985275](#)
PC WORX PRO LIC Order No. [2985385](#)

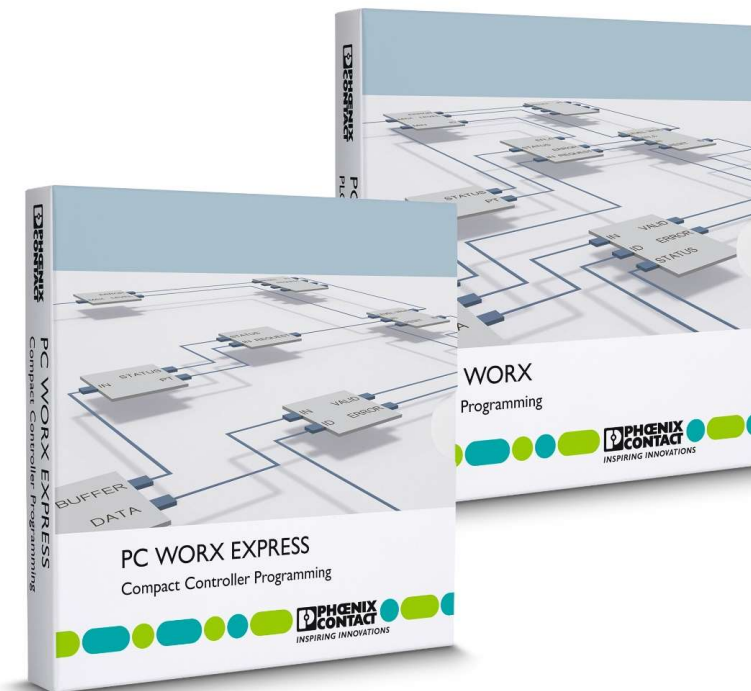
- Programming of Phoenix Contact controllers
- Network configuration and diagnostics
- Numerous programming languages supported: IL, FBD, LD, ST, SFC, FFLD

PC WORX EXPRESS

Programming small-scale controllers

PC WORX EXPRESS Order No. [2988670](#)

- Programming for class 100 and AXC 1050 modular small-scale controllers
- Automation system configuration
- INTERBUS module parameterization
- Programming languages supported: FBD, LD, ST
- 128 kB input/output data (mix)
- Can be downloaded free of charge



Licencias

PC WORX

2985660	AX SW SUITE DEMO
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2985275	PC WORX BASIC LIC
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2985262	PC WORX BASIC UPD
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2985259	PC WORX BASIC-PRO LIC
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2985385	PC WORX PRO LIC
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2985372	PC WORX PRO UPD
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2400419	PC WORX PRO LIC TL180
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2985534	PC WORX PRO OEM LIC
---------	---------------------

2988560	PC WORX PRO LIC CPY
---------	---------------------

2400041	PC WORX TARGET FOR SIMULINK
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2402684	PC WORX UA SERVER-PLC 10
---------	--------------------------

2402685	PC WORX UA SERVER-PLC 40
---------	--------------------------

2402686	PC WORX UA SERVER-PLC 80
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Note:

2985725 PC WORX DEMO not available
2988670 PC WORX EXPRESS not available

AX SW SUITE DEMO

Software - AX SW SUITE DEMO - 2985660



The AUTOMATIONWORX Software Suite is a comprehensive collection of optimally coordinated software tools for the Automation Worx automation system consisting of PC WORX, PC WORX EXPRESS, DIAG+, DIAG+ NETSCAN, CONFIG+, VISU+, WEBVISIT, AX OPC SERVER. The demo version is available free of charge and does not require a license key. It can be downloaded under "Downloads".

[Generate product PDF](#)

 **Delivery time on request**

Software

	Description	Language	Revision
☐	[zip, 958 MB] Software AUTOMATIONWORX Software Suite 1.88 programming, configuration, parameterization, diagnostics. The AUTOMATIONWORX Software Suite is a comprehensive collection of coordinated software tools consisting of: PC Worx, PC WORX EXPRESS, DIAG+, DIAG+ NetScan, CONFIG+, WEBVISIT, and AX OPC SERVER. SHA256 Checksum: d884750471d5062e7f2b8886eddcdd745d390fdaac15cc3e5d30e06b3bae297a AX_SW_Suite_2021_188.zip	International	1.88

AUTOMATIONWORX

2868059	CONFIG+
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2700779	CONFIG+ OEM
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2868062	CONFIG+ CPY
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2730307	DIAG+
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2985521	DIAG+ OEM
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2730404	DIAG+ CPY
---------	-----------

2868075	DIAG+ NETSCAN
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2868088	DIAG+ NETSCAN CPY
---------	-------------------

2700443	SAFETYPROG BASIC
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2700441	SAFETYPROG ADVANCED
---------	---------------------

2700442	SAFETYPROG PROFESSIONAL
---------	-------------------------

2700514	SAFETYPROG PROFESSIONAL OEM
---------	-----------------------------

2985945	AX OPC SERVER
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2985547	AX OPC SERVER OEM
---------	-------------------

2988463	AX OPC SERVER CPY
---------	-------------------

2721439	IBS CMD SWT G4
---------	----------------

2721442	IBS CMD SWT G4 E
---------	------------------

2721455	IBS CMD SWT G4 SP
---------	-------------------

2721468	IBS CMD SWT G4 P
---------	------------------

2721471	IBS CMD SWT G4 F
---------	------------------

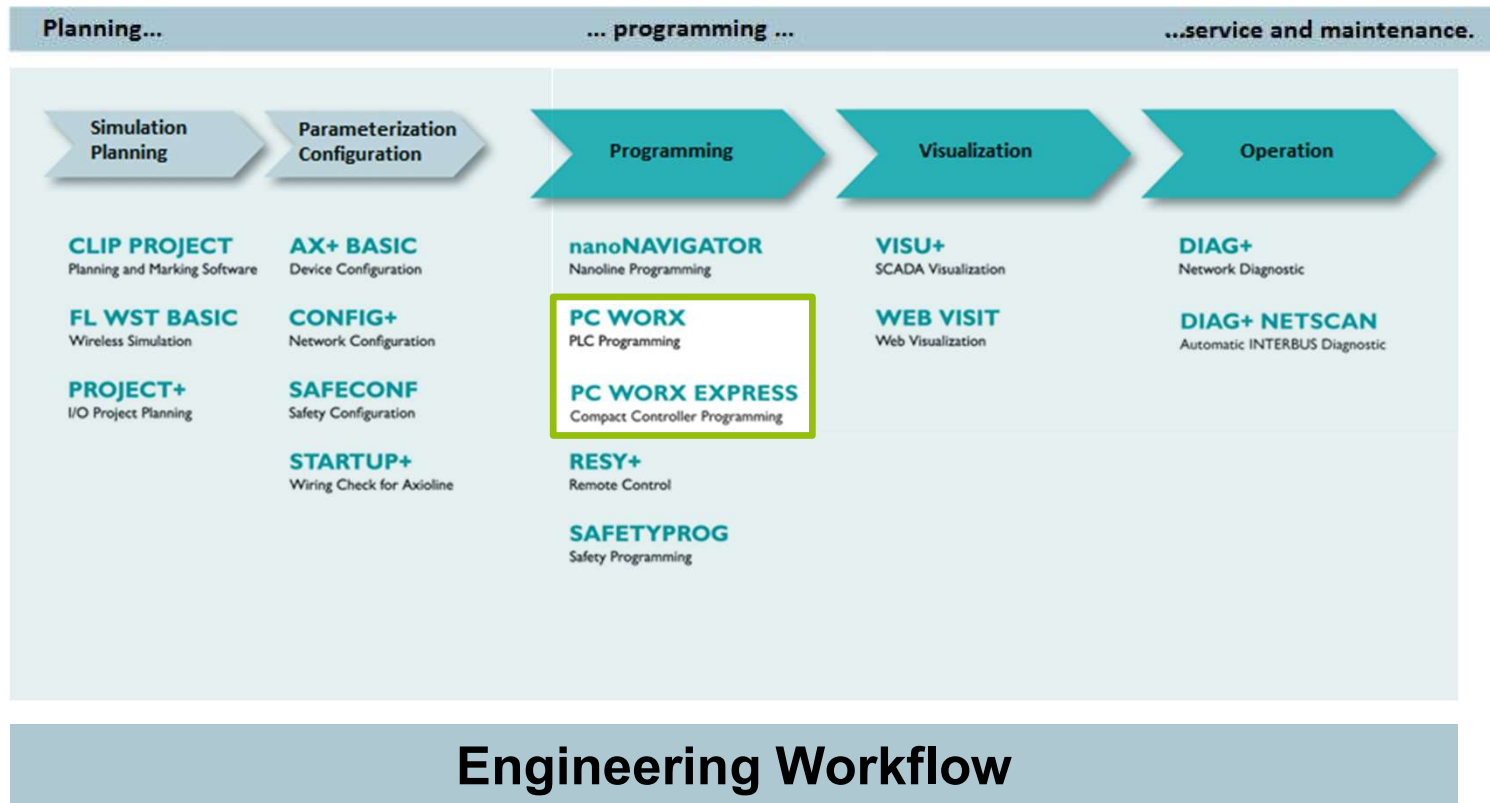
2721507	IBS CMD SWT G4 CPY
---------	--------------------

2722247	IBS CMD SWT G4 UM
---------	-------------------

2730776	IBS CMD SWT G4 4.6 F
---------	----------------------

2730789	IBS CMD SWT G4 4.6 SP
---------	-----------------------

AUTOMATIONWORX Software Overview



Software de Diagnóstico y Configuración para Sistemas de Control

CONFIG+ DIAG+ DIAG+ NETSCAN



Software de Diagnóstico y Configuración para Sistemas de Control

CONFIG+

The screenshot displays the CONFIG+ software interface for a 'Load-Station.bcp' project. The main window is divided into several panes:

- Bus Structure:** A tree view showing the hierarchy of the control system. It includes a 'Load-Station' root with various modules like 'IBS S7 400 DSC(I-T 0.0)', 'IBS IL 24 BK RB-LX 1st 1.0', and 'IBS IL 24 BK RB-LX 2nd 2.0'. The 'IBS IL 24 BK RB-LX 1st 1.0' module is expanded, showing its internal components.
- Device Details:** A pane showing the configuration for the selected device, '# 8 IB IL 24 SAFE 1 9.1 (INTERBUS Settings)'. It contains a table with the following data:

Name	Value
Vendor	Phoenix Contact
Designation	IB IL 24 SAFE 1
Functional Description	INTERBUS Inline Safety Terminal
Device Type	I/O Function Module
Device Family	IL
Order number	2740782
Revision	xx
Consecutive Number	8
Bus Segment Number	9
Position Number	1
Group	0
Alternative	0
Service Information	
Station Name	
Device Name	
Module Equipment ID	
Non-reactive Switch off	Bus in stop
ID Code	190
Process data length	2
Parameter channel length	0
500 kbaud supported	True
2 Mbaud supported	False

- Device Catalog:** A list of manufacturers and their products, including 'M&M Software GmbH', 'microsonic GmbH (IODDs)', 'Mitsubishi', 'Nelson_OI', 'PEPPERL+FUCHS GmbH', and 'Phoenix Contact'.
- Output window:** A message at the bottom states: 'INTERBUS: The interface types of device A and B do not match (A: "IBS IL 24 BK RB-LX 1st"(1.4.0), B: "IBS IL 24 BK RB-LX 1st"). Install an interface converter.'

Software de Diagnóstico y Configuración para Sistemas de Control

DIAG+

Diag+ 2

Communication Path: Gerät174.204.4.11 Disconnect

View: Optical PROFINET Diagnostics

Source Print Compare... Save Comparison... Open Comparison... Columns

Test_FO_RFC470PN_180112-mwt_rfc-470-pn-fw382-ts_07-02-2012 11-04-05.diagfo

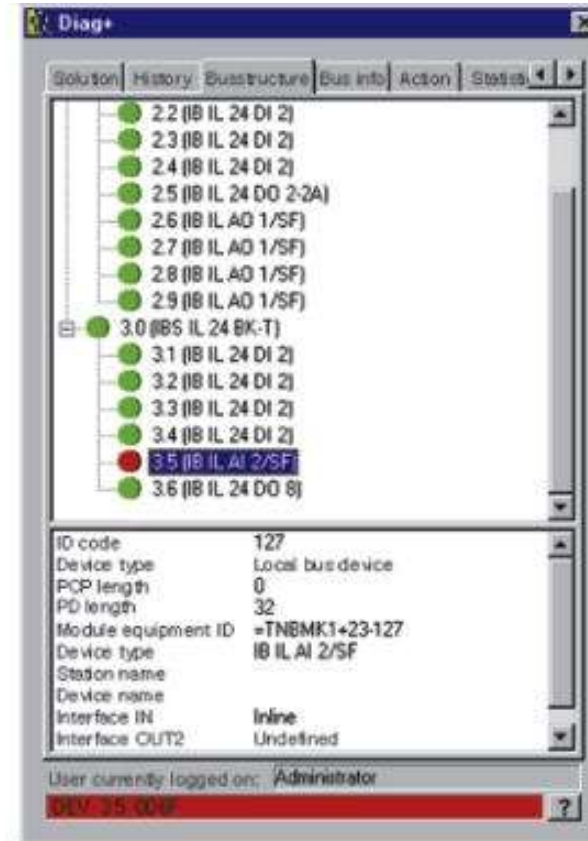
DNS/PN Name:	Port	dB	Status	Length	DNS/PN Name:	Port	dB	Status	
fl-switch-mm-hs2.pybr02	port-001-00004	--	●	--					Es konnte kein ange...
fl-switch-ghs.dtm.testschrank	port-001-00014	15,2	●	--	scalance-x202-lemgo-test	port-003	--	●	Die Empfangsgüte ko...
fl-switch-irt-1bx3pof-lemgo1	port-002	15,6	●	--	fl-switch-smn-6tx2pof-ts-1	port-002	--	●	Die Kabellänge konn...
il-pn-bk-2scij-2	port-001	0,0	●	48	rt-pn-24-2-dio-2scij-1.testschrank.de	port-002	2,6	●	Die Empfangsgüte ko...
fl-switch-ghs.dtm.testschrank	port-001-00009	3,0	●	--	rt-pn-24-2-dio-2scij-2.testschrank.de	port-001	0,6	●	Die Kabellänge konn...
rt-pn-24-2-dio-2scij-2.testschrank.de	port-002	14,0	●	--	fl-switch-mm-hs1.pybr02	port-002-00002	17,3	●	Die Kabellänge konn...
fl-switch-mm-hs.pybr02	port-002-00002	1,6	●	--	et200pro-im154-4pnhv50-lemgo-test	port-002	4,8	●	Die Kabellänge konn...
il-pn-bk-2scij-2	port-002	0,8	●	25	il-pn-bk-2scij-1	port-002	2,2	●	Die Kabellänge konn...
et200pro-im154-4pnhv50-lemgo-test	port-001	6,0	●	44	rt-pn-24-2-dio-2scij-1.testschrank.de	port-001	1,0	●	
fl-switch-mm-hs1.nuhr02	port-001-00002	16,6	●	--	fl-switch-mm-hs2.nuhr02	port-002-00002	14,3	●	Die Kabellänge konn...

Project Name: FDTKofferNeu170_81111_D.mwt

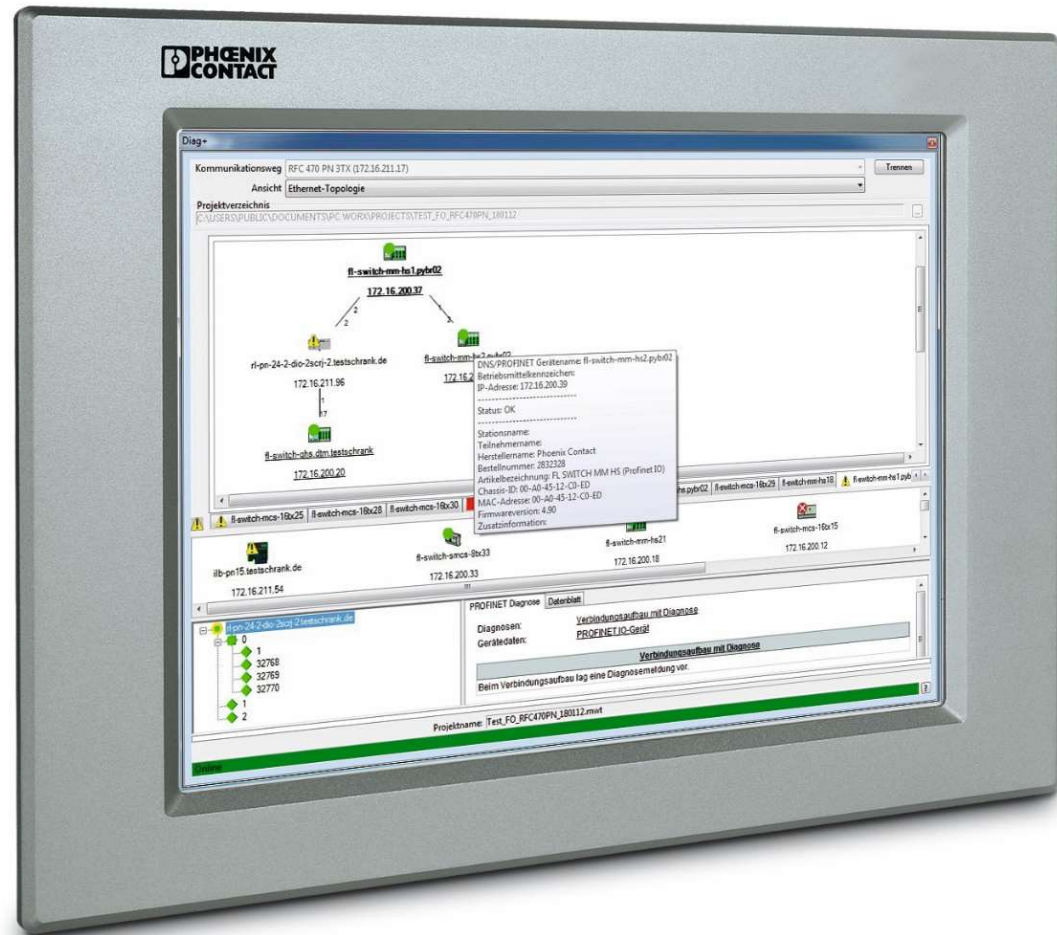
Online

Software de Diagnóstico y Configuración para Sistemas de Control

DIAG+ NETSCAN



Software de Diagnóstico y ción para **DIAG+ NETSCAN**



Software de Diag

DIAG+

AutomationXplorer+ - C:\Dokumente und Einstellungen\tester\Eigene Dateien\WY FDT Project\Messe11_01.axf

File Edit View Device Window Tools ?

Project Tree

- Messe11_01
 - ILC 390 PN 2TX-IB
 - IBsChannel
 - IB IL IOL 4 DI 12-PAC
 - ID-Link Channel 1
 - ID-Link Channel 2
 - VDM28-8-L
 - ID-Link Channel 3
 - WT812C-3P2433 V1.0**
 - ID-Link Channel 4

WT812C-3P2433 V1.0 - Online Parameter

Vendor / Device family: SICK Sensor Intelligence. / Photoelectric Proximi...
Device id / Product id: FE652h / WT812C-3P2433
DD filename: SICK-WT812C-3P2433-20100223-IODD1.0.1.xml

Direct mode is active

Menu

- Identification
- Parameter
- Observation
- Diagnosis
- Process data
- Process data structure
- Events
- Info

Parameter

☐ Show minimum and maximum values

Name	Value	Default value
Scanning Distance	40 mm	50 mm
Hysteresis	15	0
System Command	160 (Teach)	
Key Lock	0 (Unlocked)	0 (Unlocked)

Close

Connected Device

Messages

0 Errors 0 Warnings 0 Messages

Show output from: FDT

DTM-Catalog

Filter: Vendor

- Baumer Electric AG (IODDs)
- Festo AG & Co. KG (IODDs)
- GEMUE (IODDs)
- Generic
- ICS GmbH
- ilm electronic GmbH (IODDs)
- IO-Link (IODDs)
- microsonic GmbH (IODDs)
- Mitsubishi
- PEPPERL+FUCHS GmbH
- Pepperl+Fuchs GmbH (IODDs)
- Phoenix Contact
- Phoenix Contact GmbH & Co. ...
- SICK AG
- SICK AG (IODDs)**
- Device
- WT812C-3P2433 V1.0

Siemens AG (IODDs)

Turck (IODDs)

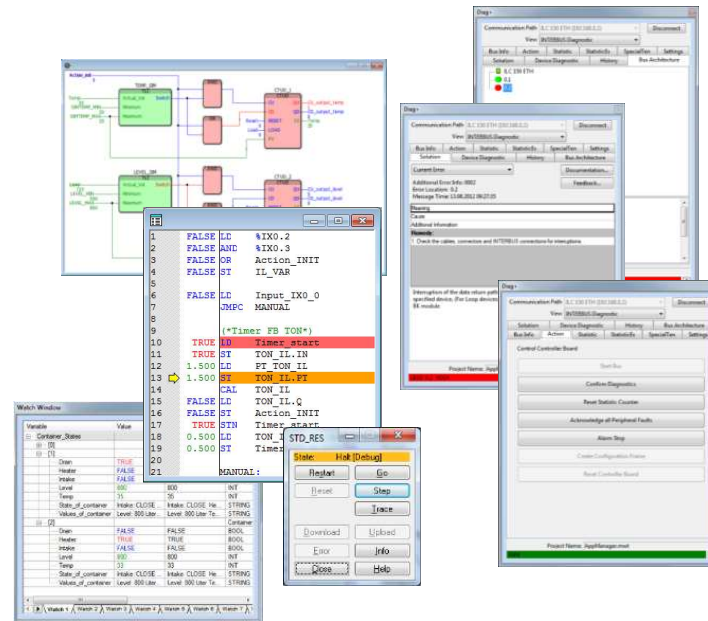
tester

DIAG+ Network Diagnostics

Support in Error Avoiding

Fieldbus Diagnostic with comfortable PLC functions

- Breakpoints
- Individual steps
- Debugging in libraries
- Instance debugging
- Observing values from different program parts in a watch window
- Force list
- Quick bus startup
- Quick error localization thanks to plain-text error messages



Quick error localization and error-free startup thanks to extensive debugging functions.

Software configurators for OPC

OPC Configurators



Software OPC Visualización

AX OPC SERVER

When all variables of PLC are declared OPC...

Then....

OPC Variables can be used immediately on

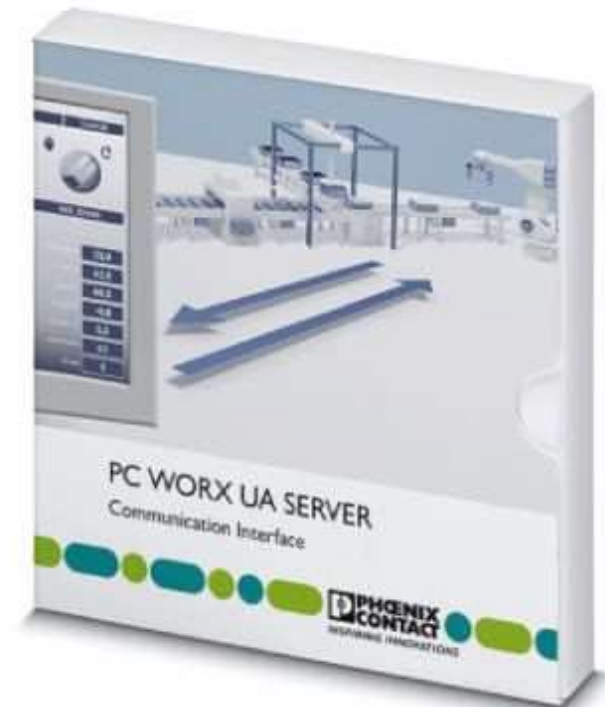
Visualization Software as VISU+

This tool enable communication between PLC and HMI Software



PC WORX OPC UA SERVER

The PC WORX UA SERVER from Phoenix Contact enables you to access all variables of PC Worx programmable controllers via the OPC UA (Unified Architecture) standardized communication protocol.



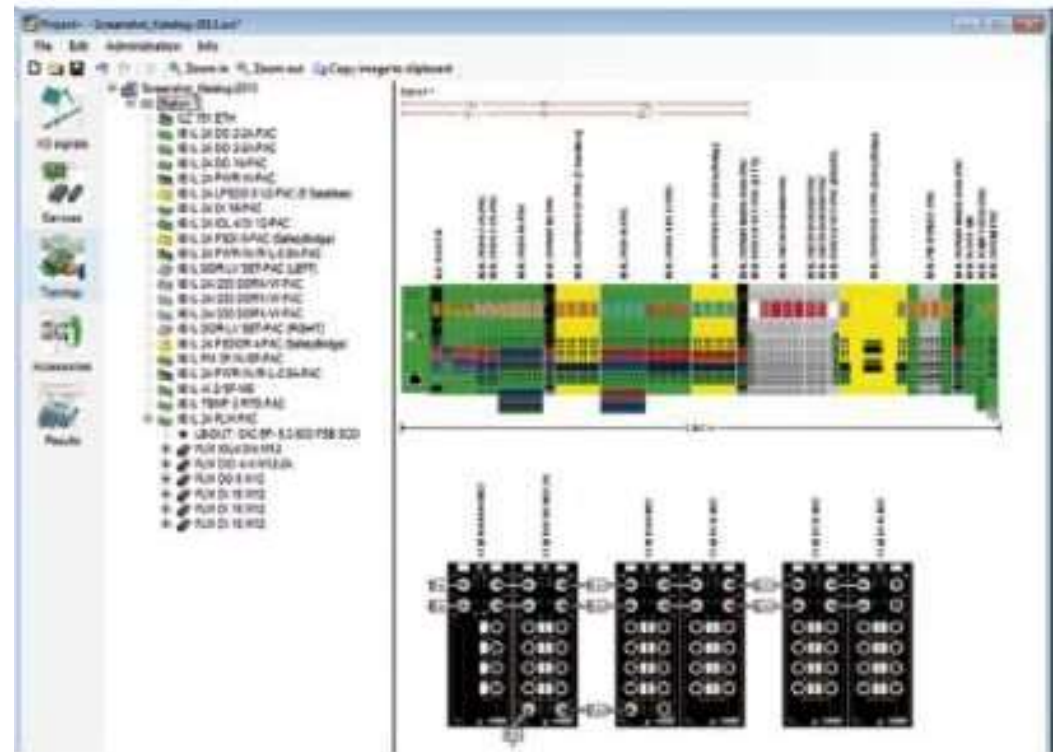
Software and Technologies

PROJECT+ 2.8

PROJECT+ 2.8

Inline Controllers & Buskopples
I/O

Fieldline Modular



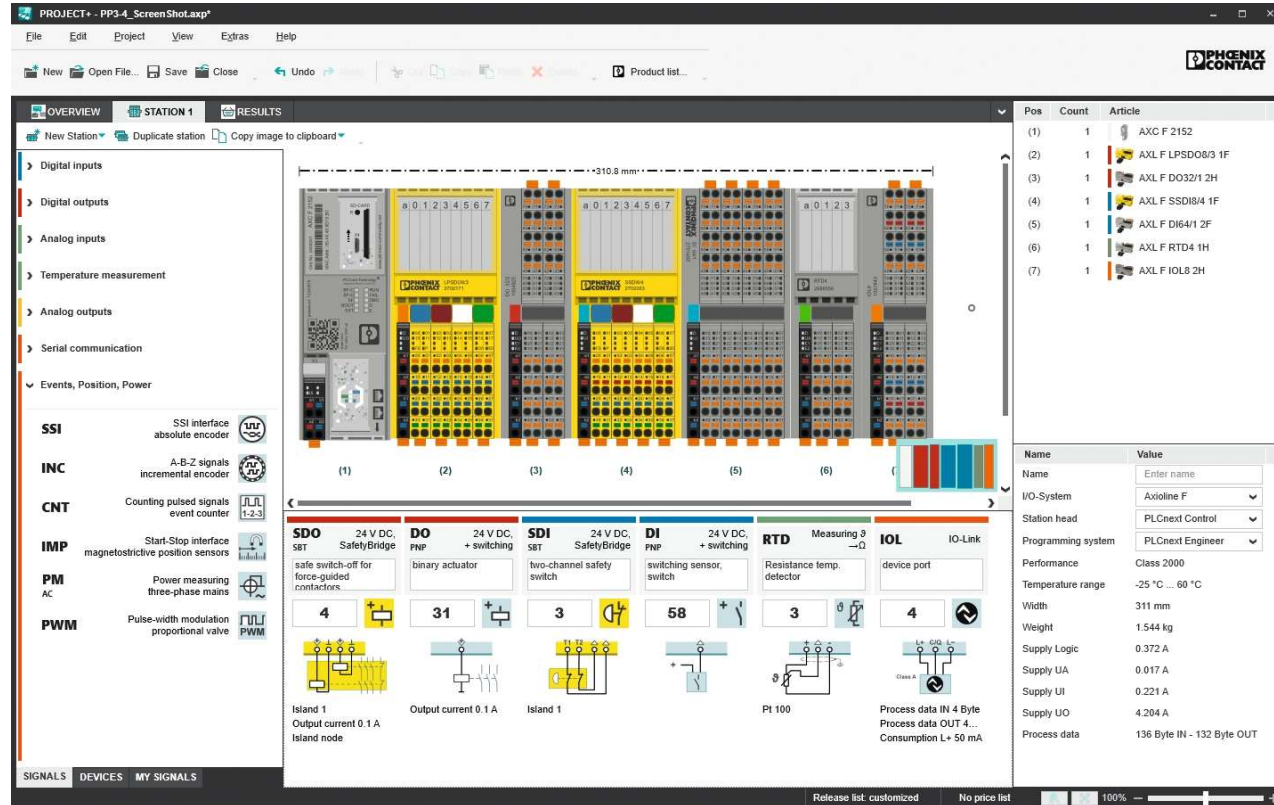
Software and Technologies

PROJECT+

Project+

is a configuration tool that supports you when creating an I/O station as part of the automation of a system, machine or property.

Project + 3: Planning for Axioline F and Inline I/O stations

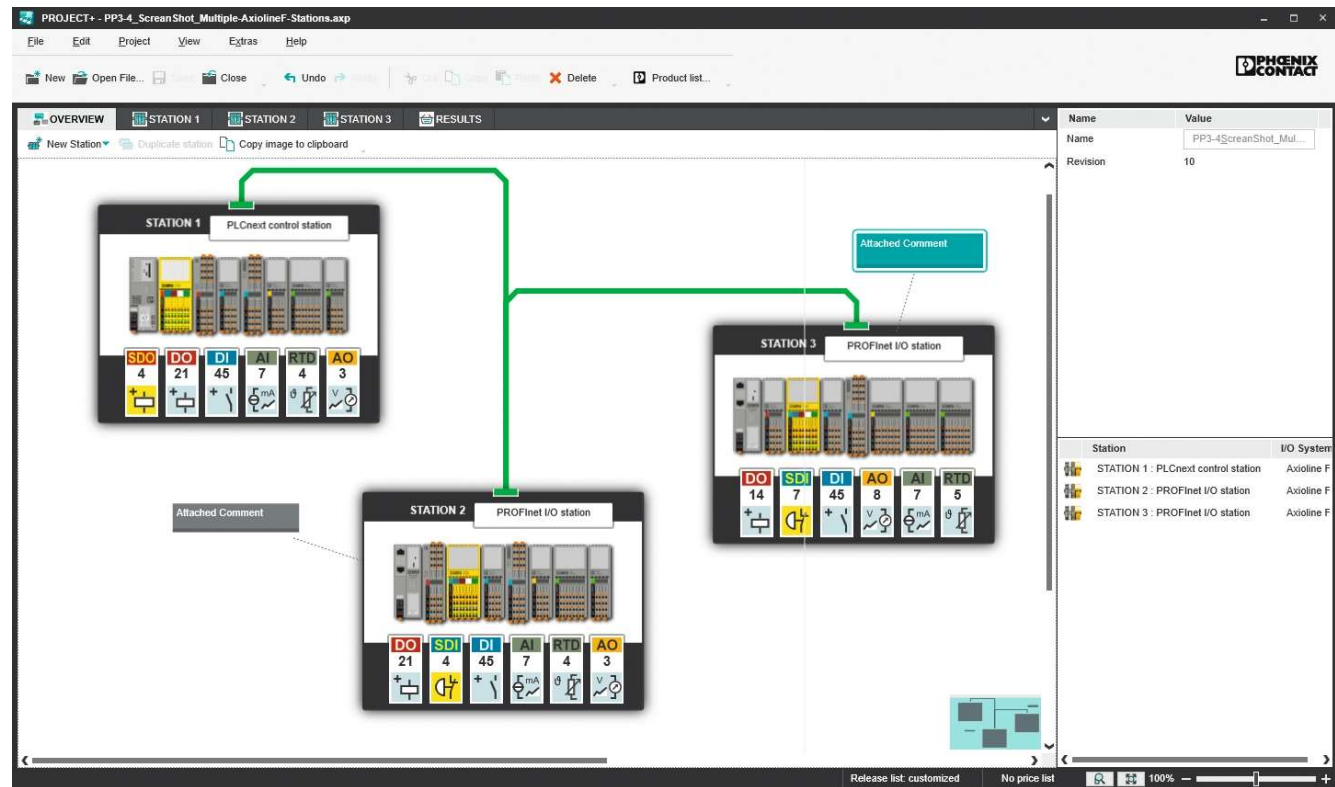


Software and Technologies

PROJECT+

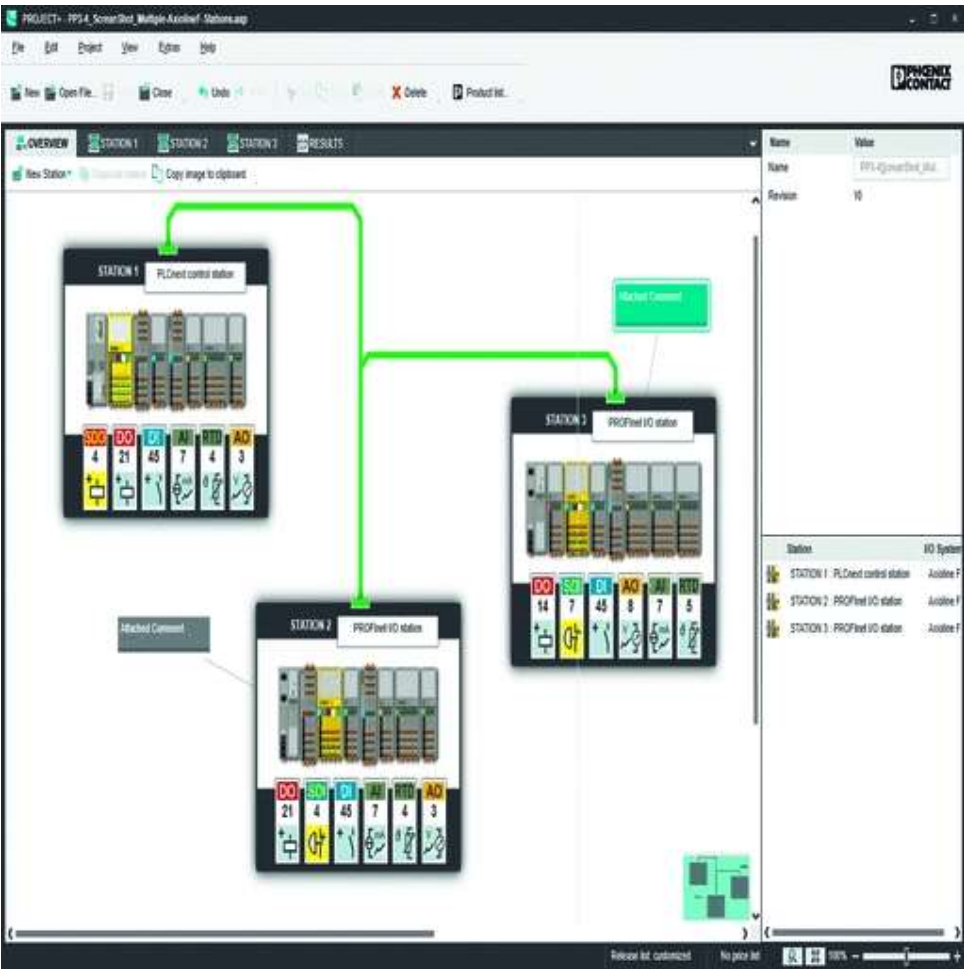
PROJECT+3

I/O Project Planning



Software

PROJECT+



STARTUP +

enables you to quickly and easily establish a connection to an Axioline F station, to configure the connected modules, and to check their wiring (I/O check).



Software

CONNECT+



The Connect+ software can be used to easily start up and maintain automation projects from Phoenix Contact. Connect+ can be extended with various plug-ins that can be tailored to devices and automation solutions from Phoenix Contact.

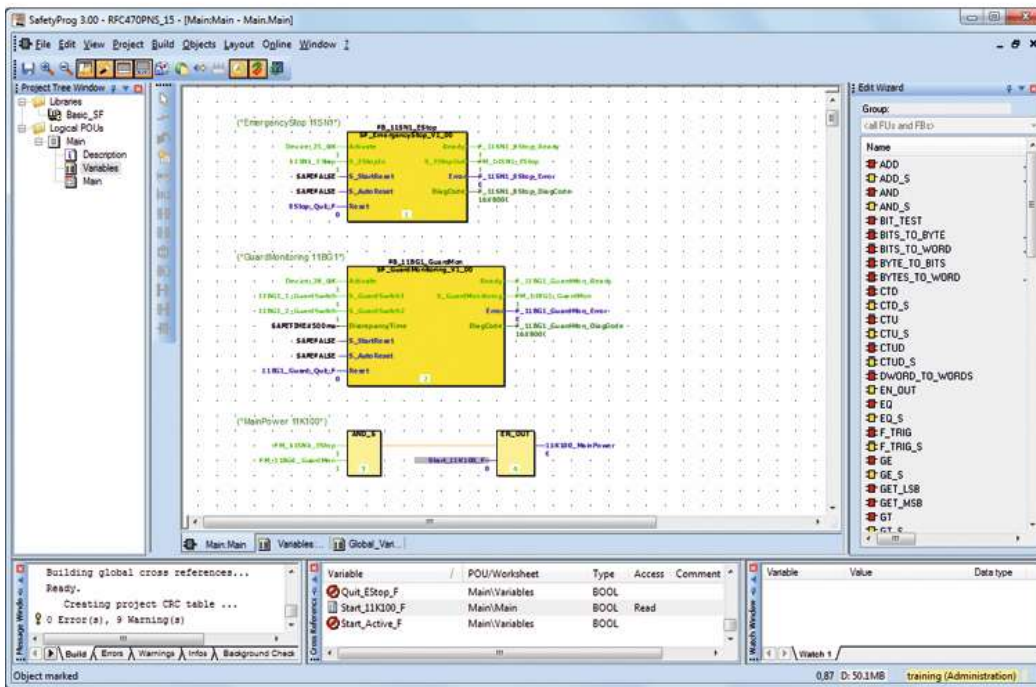
Benefit from the advantages of the free software tool:

- Easy initial configuration of controllers from Phoenix Contact
- Simple startup and parameterization of automation projects



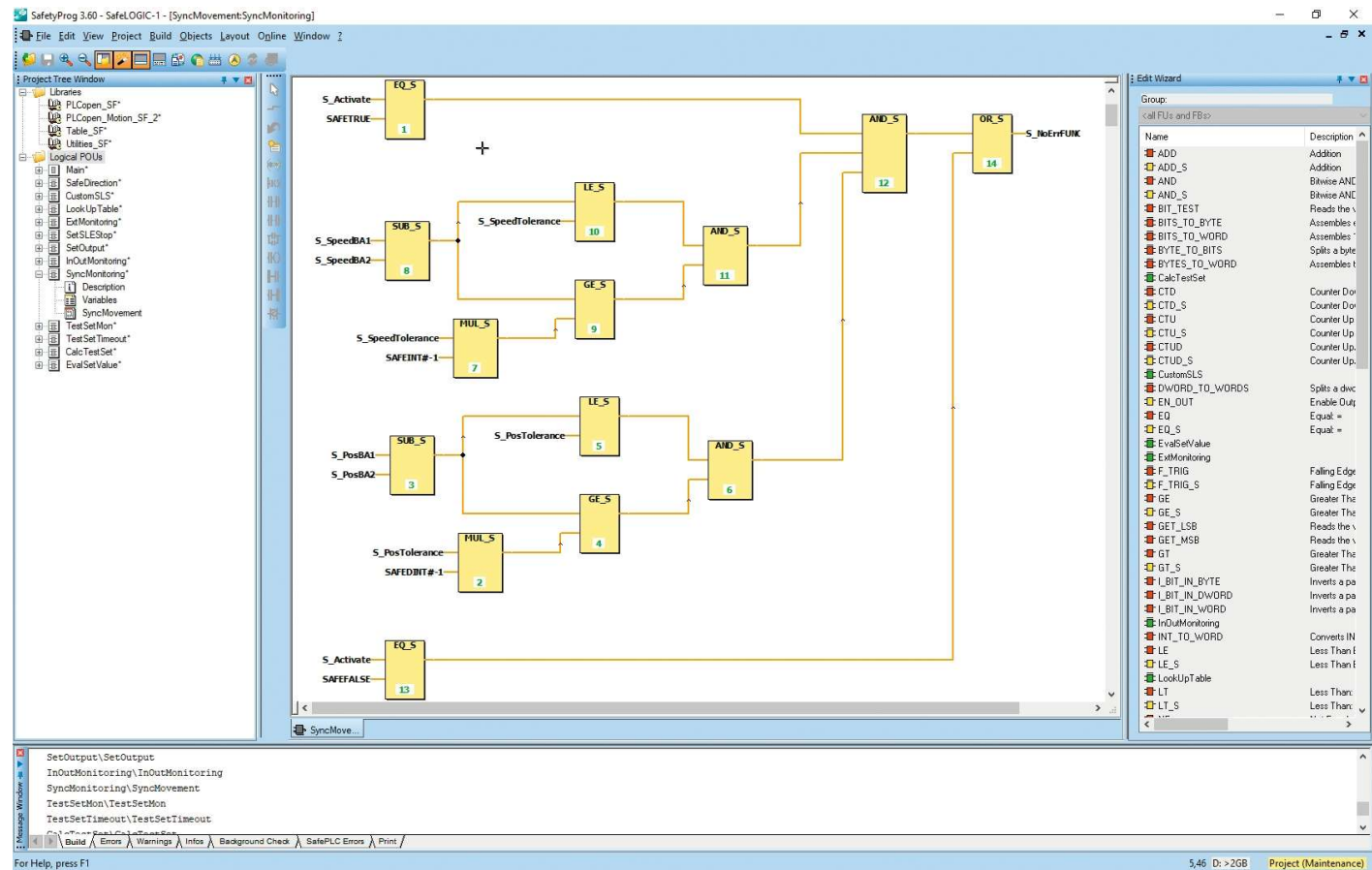
Software for Safety Controllers

SAFETYPROG



Software for Safety Controllers

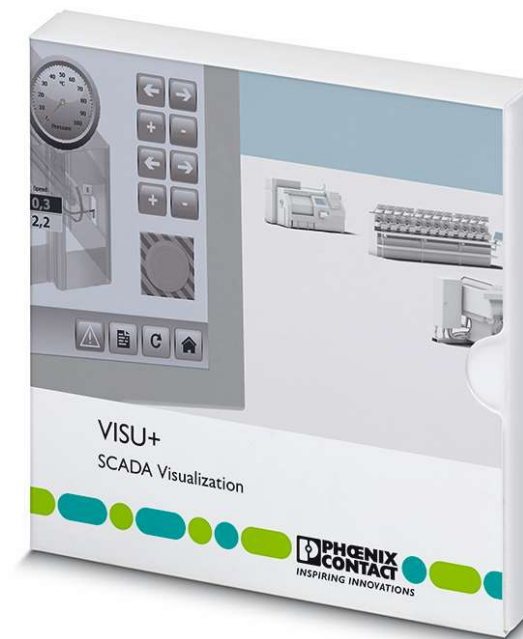
SAFETYPROG



Softwares de Visualización

VISU+ EXPRESS

VISU+



Softwares Visualización

VISU+

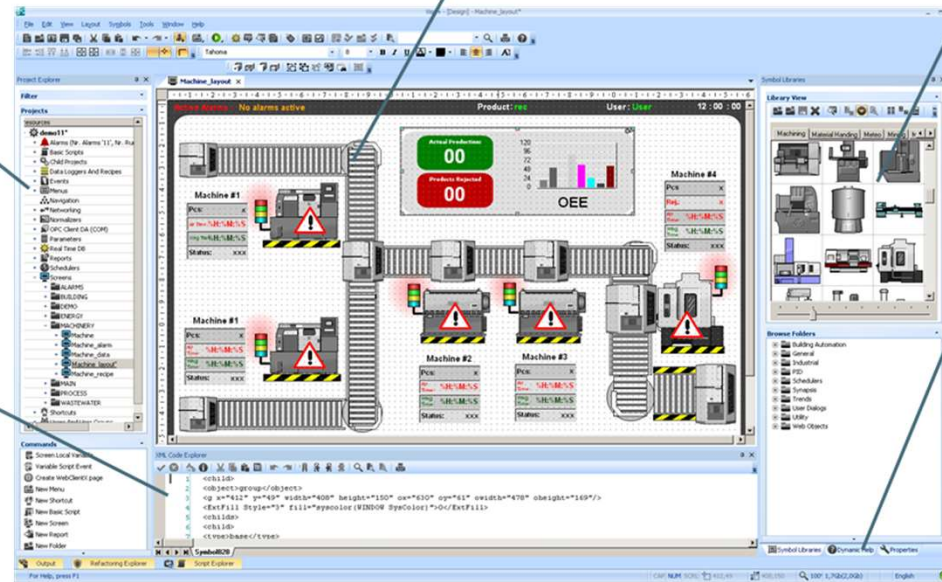
Project explorer
Easy access to all project resources

**Editor for the
visualization pages**

Symbol library
Numerous objects for
various applications

XML-Editor
Access to the
XML object
structure

Properties-Explorer
Comprehensive
configuration options
for objects and
resources



Effective engineering in a modern environment

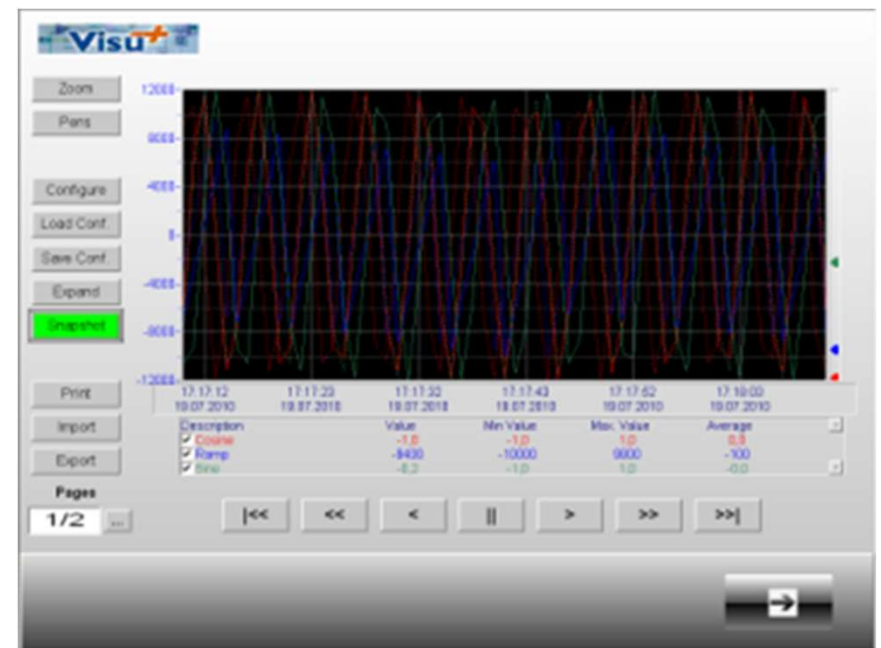
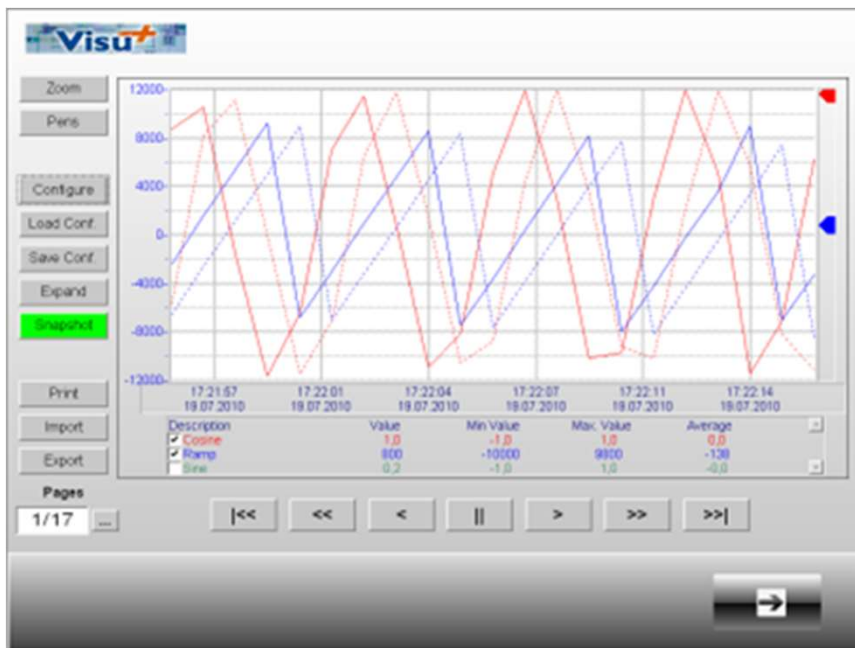
VISU+ / VISU+ Express – communication drivers



Your connectivity options!

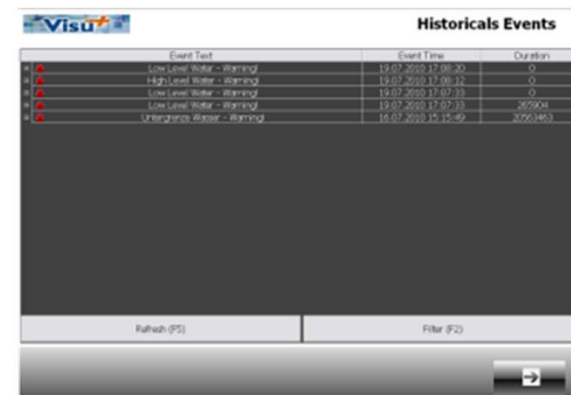
Softwares Visualización

VISU+

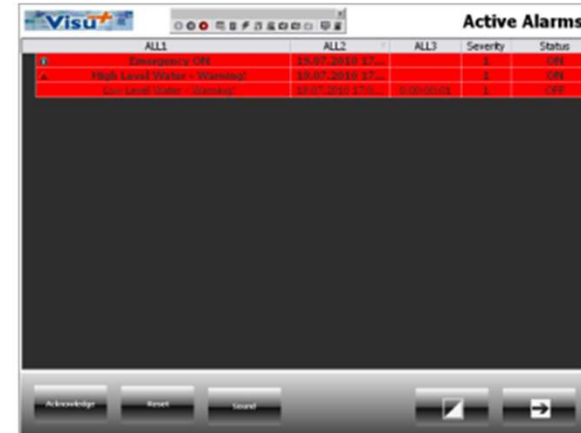


Alarm management

- Integrated event and alarm notification management on WinCE HMI devices.
- Up to 1024 alarm priorities
- Various filter options for the alarm representation
- Alarming and event handling are easily customizable with VBA
- Alarm up dimming and acoustic alarming integrated in HMIs



Event Text	Event Time	Duration
Low Level Water - Warning	13.07.2010 17:00:30	0
High Level Water - Warning	13.07.2010 17:00:32	0
Low Level Water - Warning	13.07.2010 17:00:33	0
Low Level Water - Warning	13.07.2010 17:00:33	255004
Unsurprised Water - Warning	14.07.2010 15:15:42	2000163



ALL1	ALL2	ALL3	Severity	Status
Emergency Off	15.07.2010 17:00		2	OK
High Level Water - Warning	15.07.2010 17:00		2	OK
Low Level Water - Warning	15.07.2010 17:00	10000000	1	OK

Software Visualization
Webvisit 6

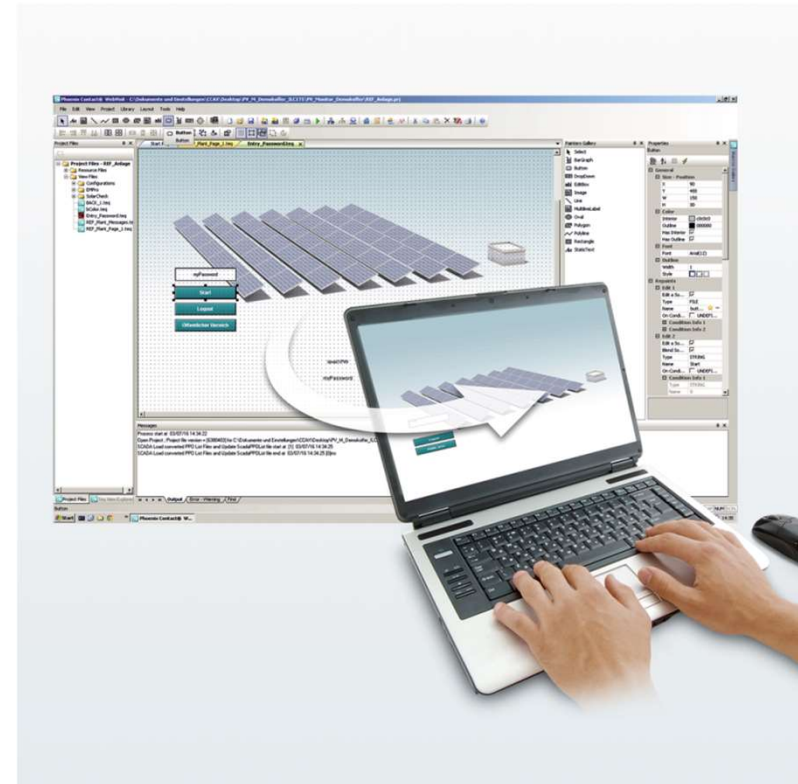
WEBVISIT
Web Visualization



Software Web development

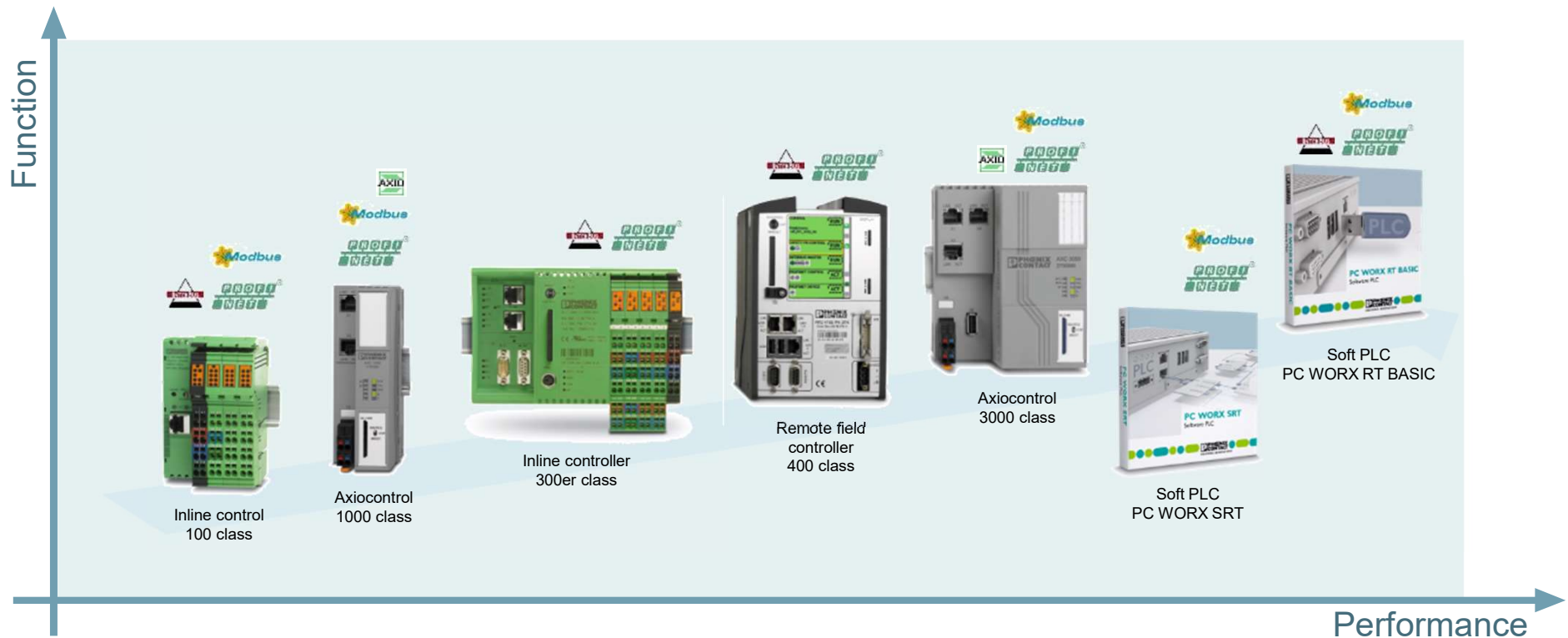
Webvisit – your advantages

- ✓ Intuitive
- ✓ Can be used via standard browser
- ✓ Inexpensive
- ✓ Import directly from PC WORX
- ✓ For all controllers with an integrated web server



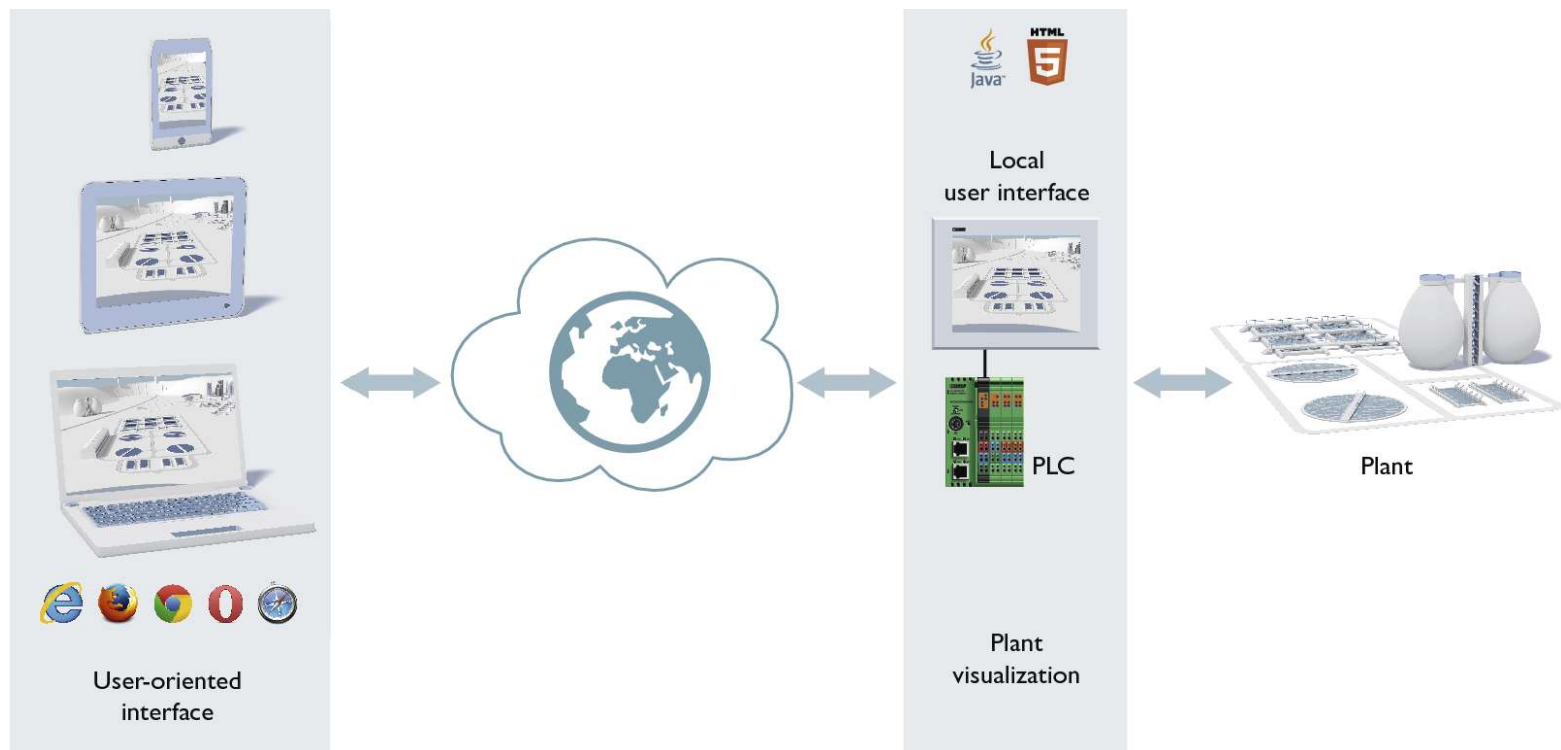
Software development for web server controller

Webvisit - Compatible controller



Software development

Webvisit - Topology



AUTOMATIONWORX Software Suite

A complete application in just a few steps

Creation

- Creating visualization pages using the Webvisit editor

Link

- Importing and linking variables from PC WORX, if required

Download

- Downloading the completed project to the controller

View

- Viewing the application with HMIs (MicroBrowser) or standard/mobile browser

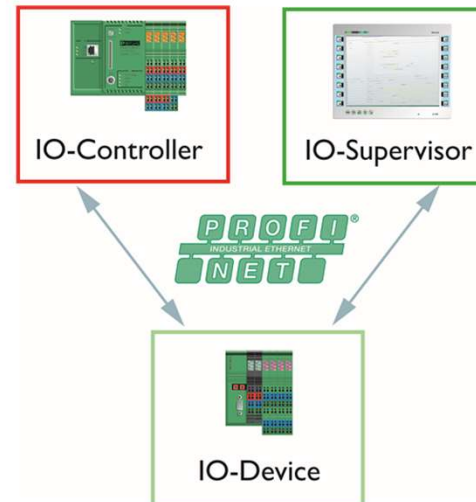


Technology

PROFINET Communication Partners

PROFINET IO-Controller:

- Starts communication and configures field devices
- Cyclic and acyclic data exchange with the IO- Device
- Receives alarms from the IO-Device



PROFINET IO-Supervisor:

- Parallel configuration
- Reading diagnostics

PROFINET IO-Device:

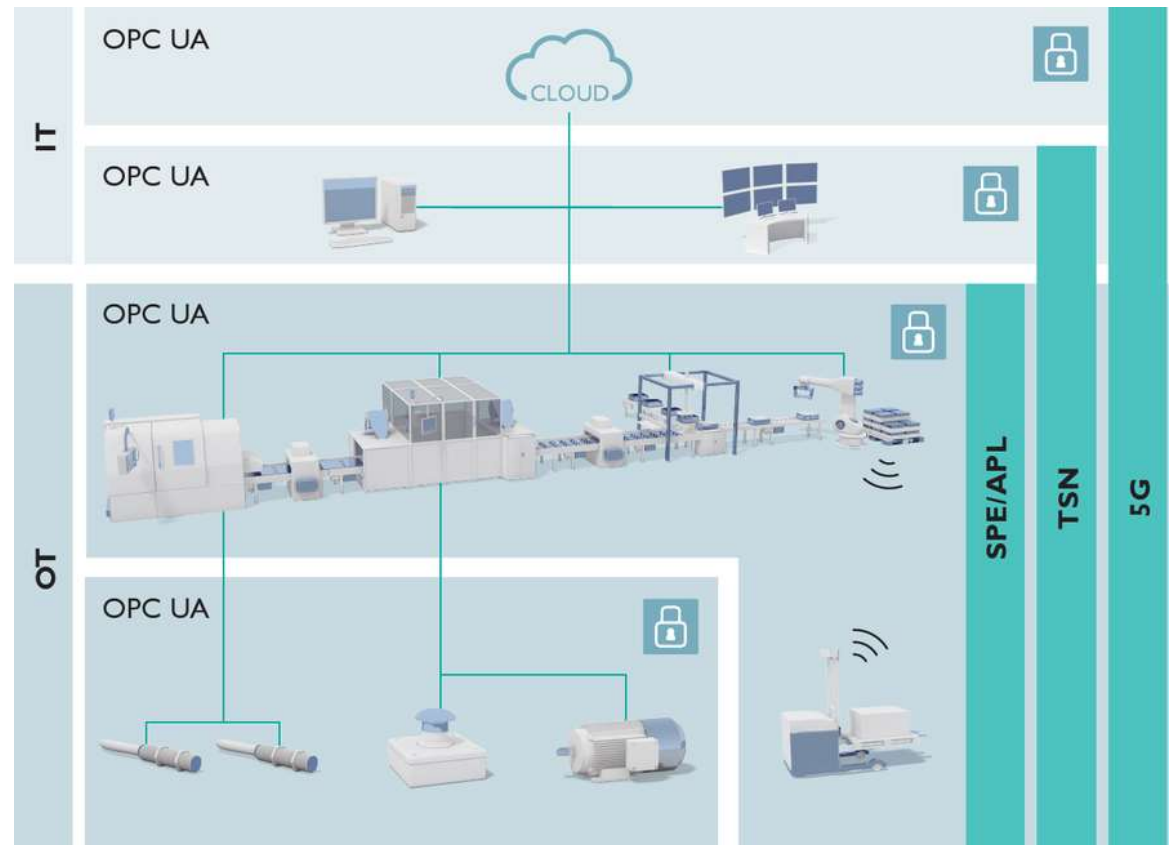
- Cyclic and acyclic data exchange with the IO- Controller
- Sends alarms to the IO-Controller

Software and Technology initiative

OPC UA

The basic framework for the future of industrial communication technology is currently being developed across a large number of committees and standardization projects. New communication standards such as OPC UA, TSN, SPE, and 5G will be far superior to previous systems in terms of costs, data throughput, latency and determinism.

The new technologies TSN, SPE/APL, 5G, and OPC UA, are not to be considered as being independent of each other – rather, together they will form the communication of the future



Technology

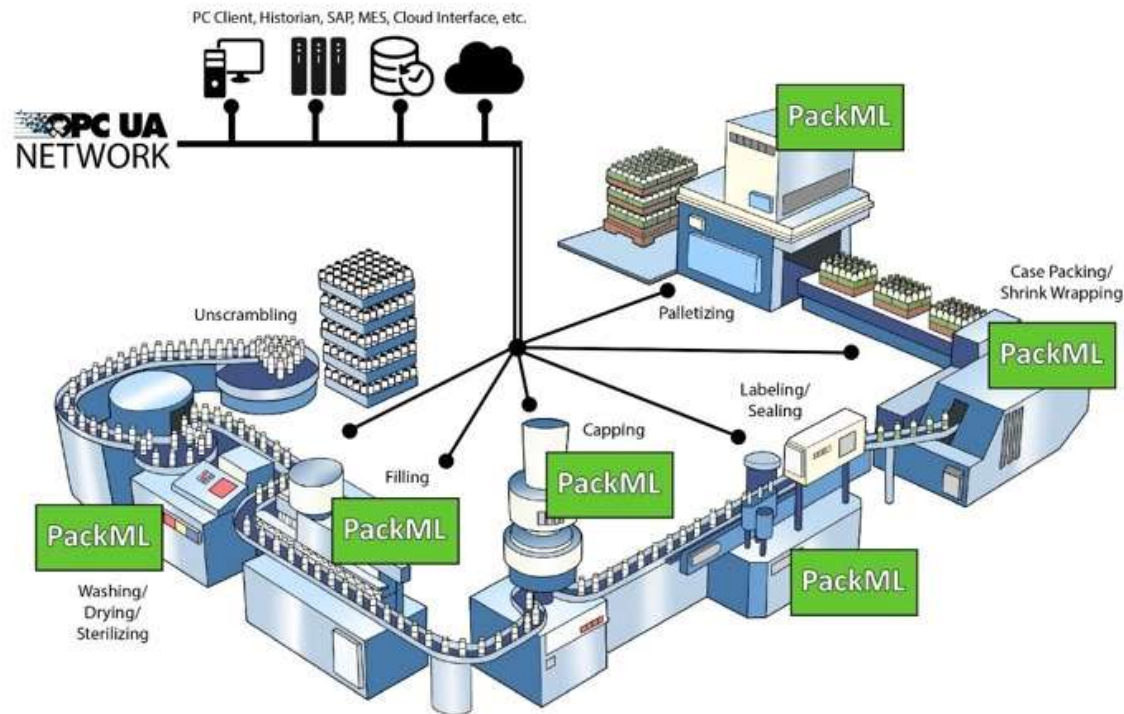
OPC UA

OPC UA is already used as the superordinate communication standard in systems. OPC UA is now being expanded through the addition of standardized application profiles in the field, for example for I/O, safety, and motion.



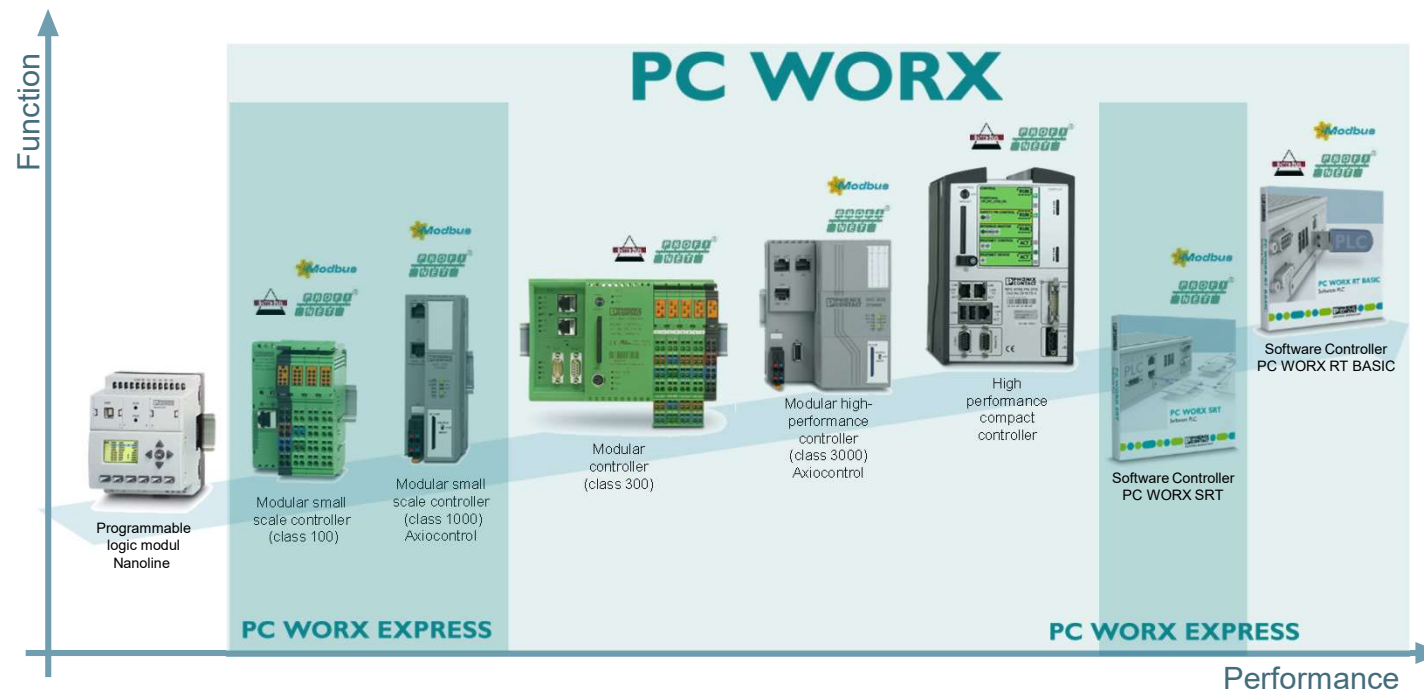
Technology

OPC UA Architecture



Equipos

PC WORX – Compatible controller



PC WORX

Worldwide consistent programming – IEC 61131

Integrated software-tools

Fast and flexible programming

- Additional standard libraries

Extensible

- User functions
- Function blocks or libraries

Easy handling

- Intuitive user interface
- Clear structures



One software for every engineering step



Webinar IMA 2020

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55 1101 1380

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