Antonio Gordillo / Marketing IMA / 28 Junio 2021

Welcome

HMI´s Phoenix Contact

BTP
TP

BWP
WP

PHOENIX CONTACT
INSPIRING INNOVATIONS

Agenda

HMI´s Phoenix Contact

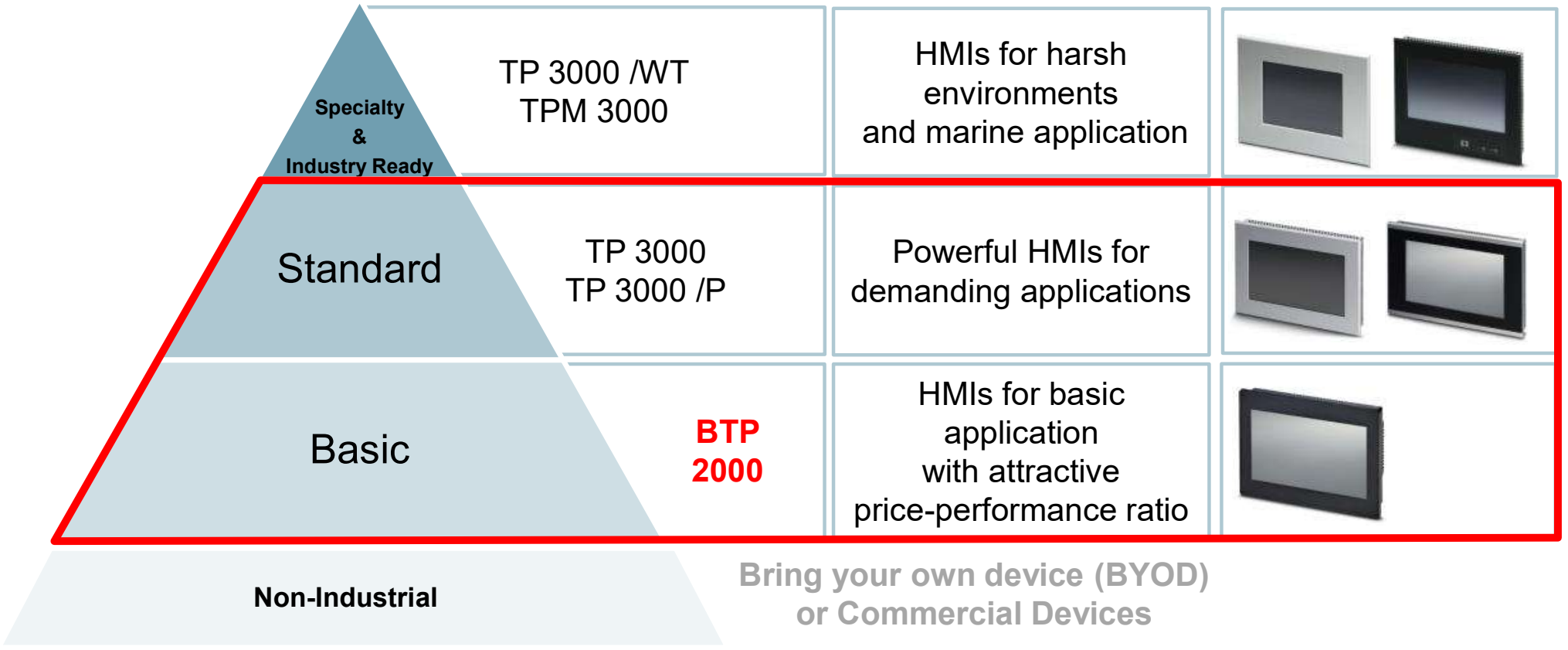
- BTP 2000
- TP 6000

- BWP 2000
- WP 4000

- VISU+ EXPRESS

BTP 2000

Visu+ HMI tailored for all needs



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BTP 2000

Compatibility with Existing Products

Advantages

- Global technical support is already in place.
- Does not increase our portfolio of Visualization software
- Visu+/Visu+ Express projects are compatible with all PxC Windows CE HMI hardware, enabling OEM and users to scale from Basic over Standard to Specialty and Industry Ready HMI hardware platforms that match your application and budget needs.

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Basic HMI – BTP2000

- Screen sizes 4.3“, 7“, 10.2“
- 300 Cd/m² LED Backlight
- ARM 9 i.MX28, 454 MHz processor

- Visu+ / Visu+ Express
- Analog Resistive (Single) Touch
- Ethernet, RS-232 & RS-485 Interfaces
- Plastic housing

c UL us LISTED CE

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TP 3000 vs. BTP 2000

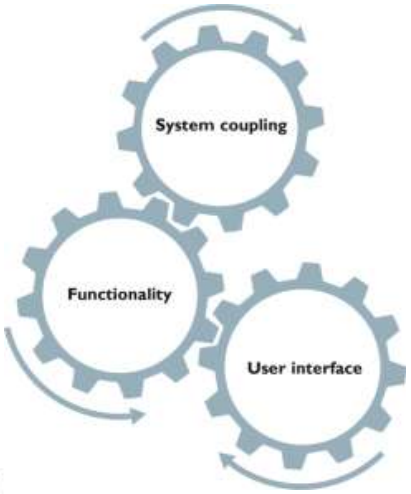
Comparison

TP 3000	BTP 2000
1. Display sizes from 5.7“ to 15“ in 4:3 and 16:9 aspect ratio	1. 3 display sizes in 16:9 aspect ratio, 4,3”, 7” and 10.2”
2. Powerful HMIs for demanding applications covering most industries	2. Designed for basic applications with attractive price-performance ratio
3. Ressources for full feature set	3. Ressources for basic feature set

TP 3000 vs. BTP 2000

Similarities

1. One Editor for all product lines – Visu+ Express free of charge
2. Connection to all relevant control systems, thanks to a large number of available drivers
3. Integration in PxC control Systems with PLCI driver



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TP 3000 vs. BTP 2000

Message

Visu+ HMIs for different performance levels

BTP 2000 for half list price of TP 3000

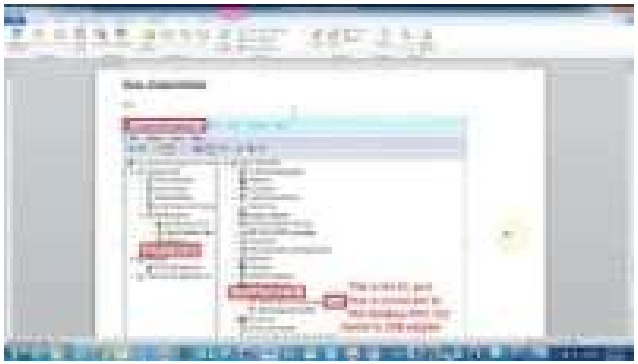
BTP 2000

Advantages

	Criteria	Phoenix Contact						
	Pricing	✓						
Service	Globale presence	✓						
Service	System provider with Drives	✓						
Hardware	SD Card Slot	✓						
Hardware	Interface: Ethernet, USB Host, USB Progr., seriel	✓						
Software	Web Client	✓						
Software	Multitude Driver	✓						
Software	Free of charge development tool	✓						

BTP 2070W and Micro 820 Allen Bradley

Modbus RTU



Phoenix Visu+ Modbus Serial RTU RS-232 – PART 1 - Testing on PC

Phoenix Visu+ Modbus Serial RTU RS-232 - PART 2 - HMI program for actual HMI COM PORT

Phoenix Visu+ Modbus Serial RTU RS-232 - PART 3 - HMI program for actual HMI COM PORT

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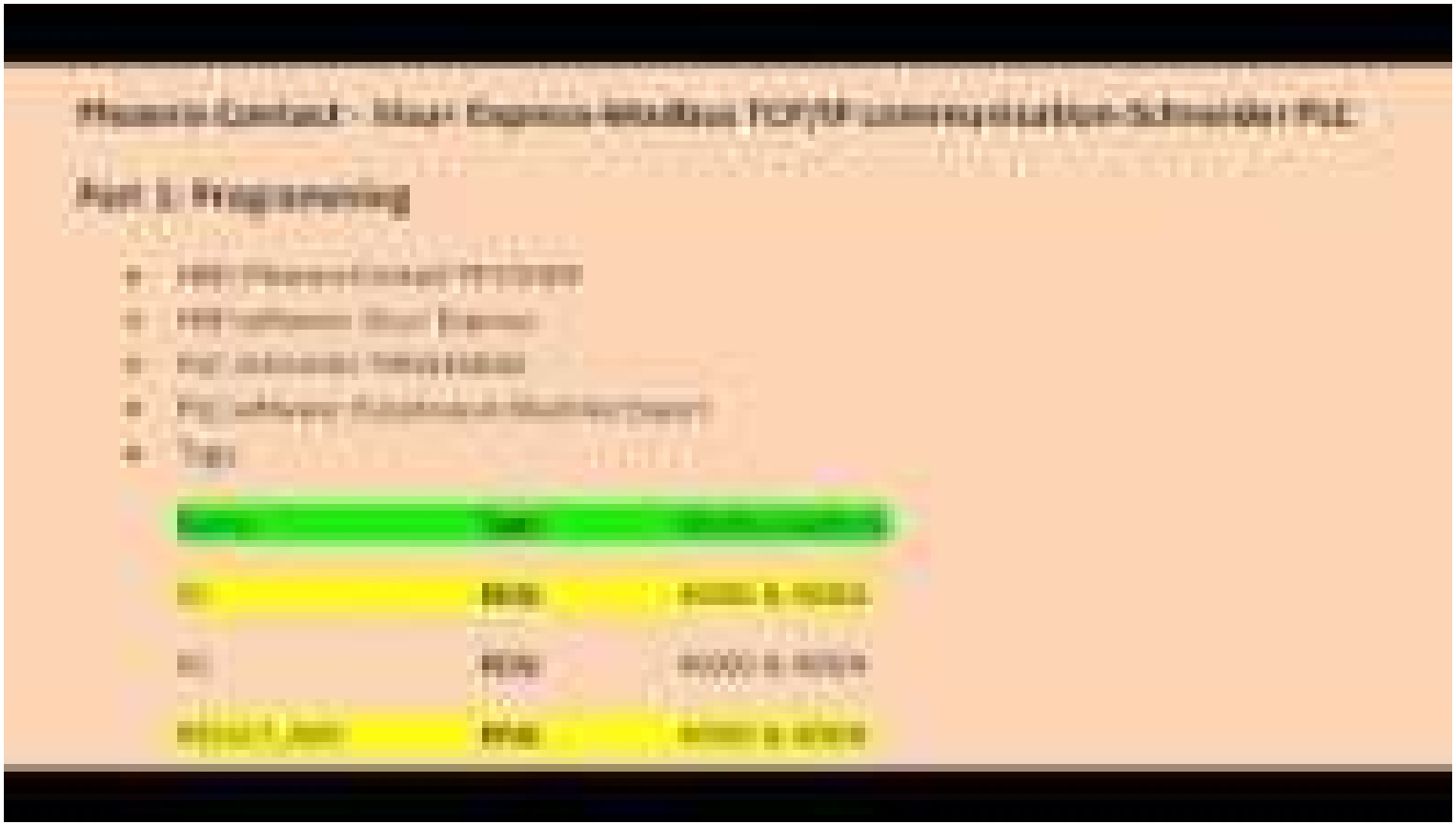
Tutorial Touch panel BTP 2102W 10.2" TFT-displej and PLC Simatic



Phoenix Contact - Visu+ Express-Modbus TCP/IP communication-Schneider PLC (P1)

TP 6000

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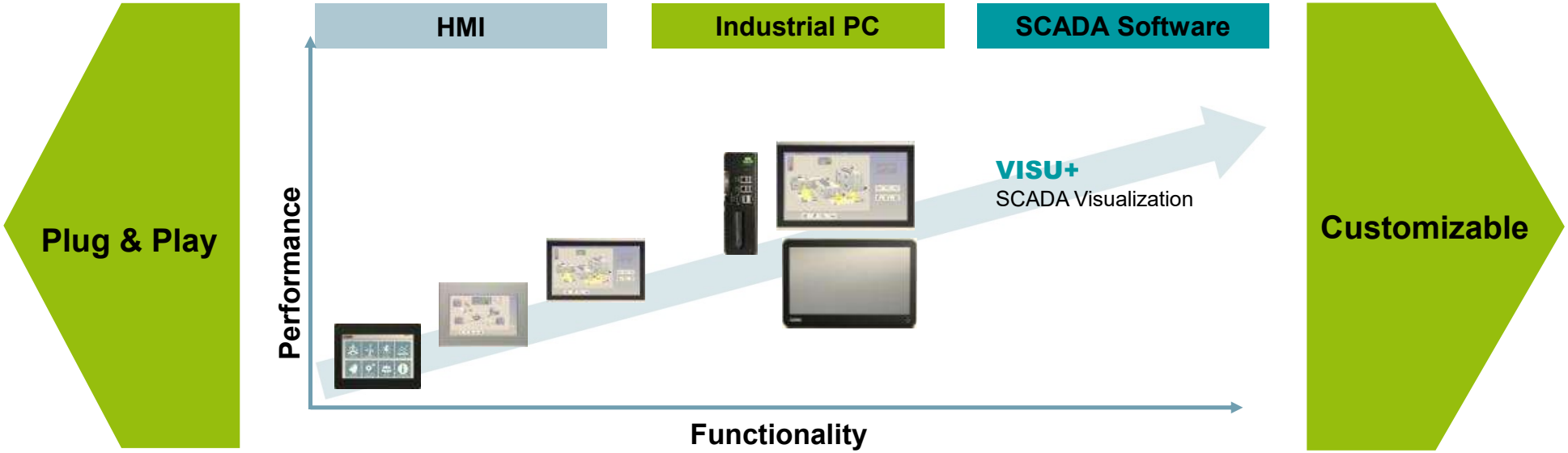
Operation and Monitoring with runtime based HMIs



Visu+ (Express) runtime installed on Embedded HMI Hardware Platform
→ Ready-To-Use HMI

Visu+ Express
Option for Industrial PCs
→ Ready-To-Use HMI

Visu+ SCADA
x86 software package for Customer Installation
→Flexible and Configurable

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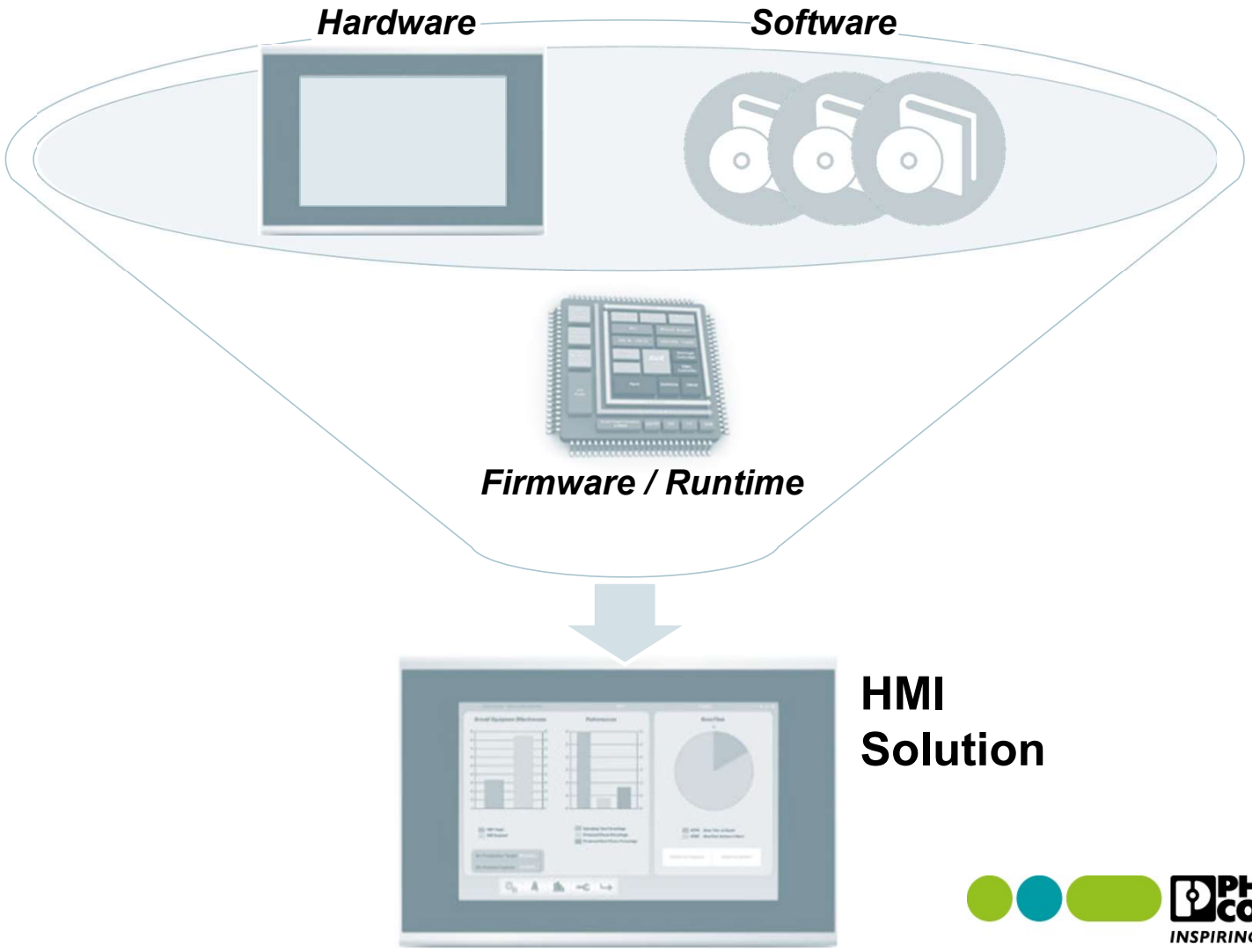

HMI Solution

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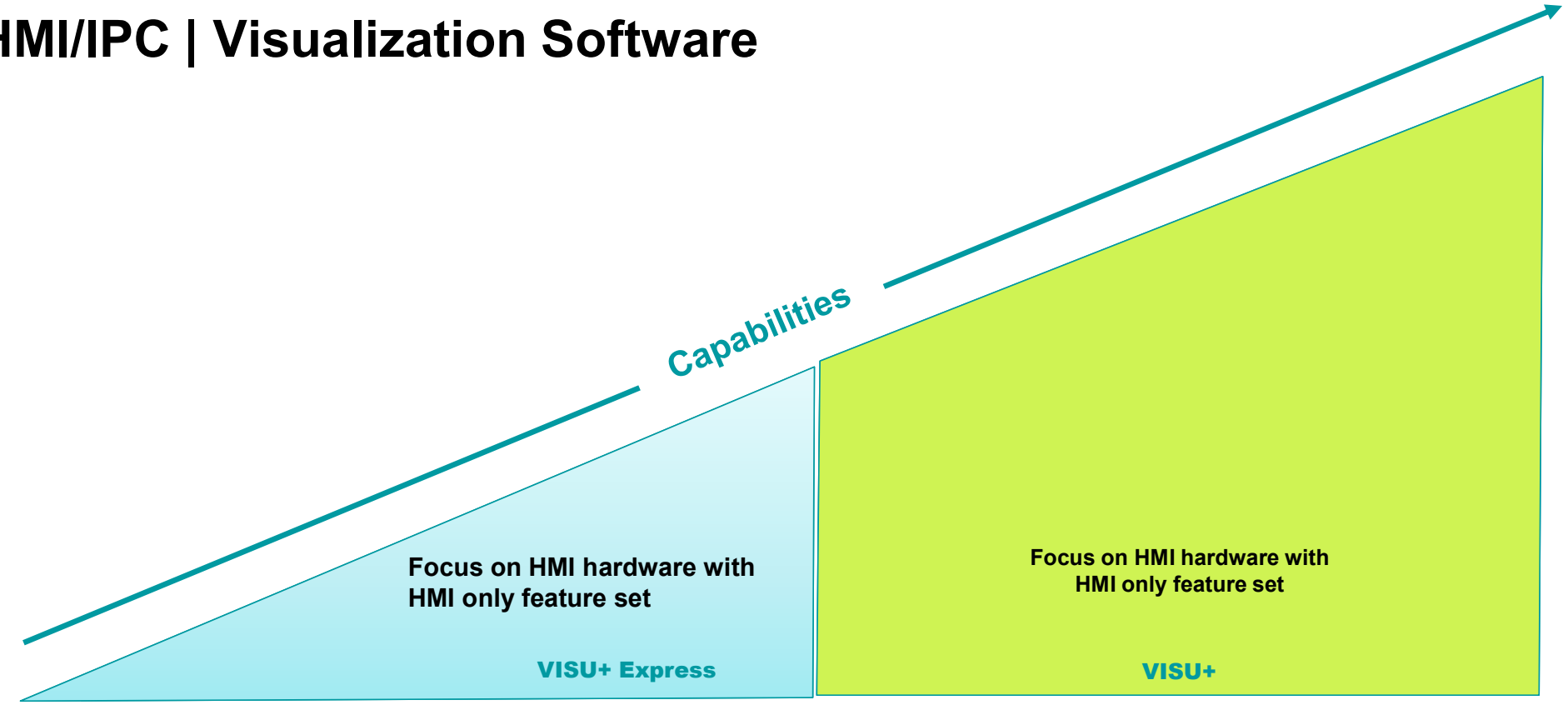
HMI/IPC | Visualization Software



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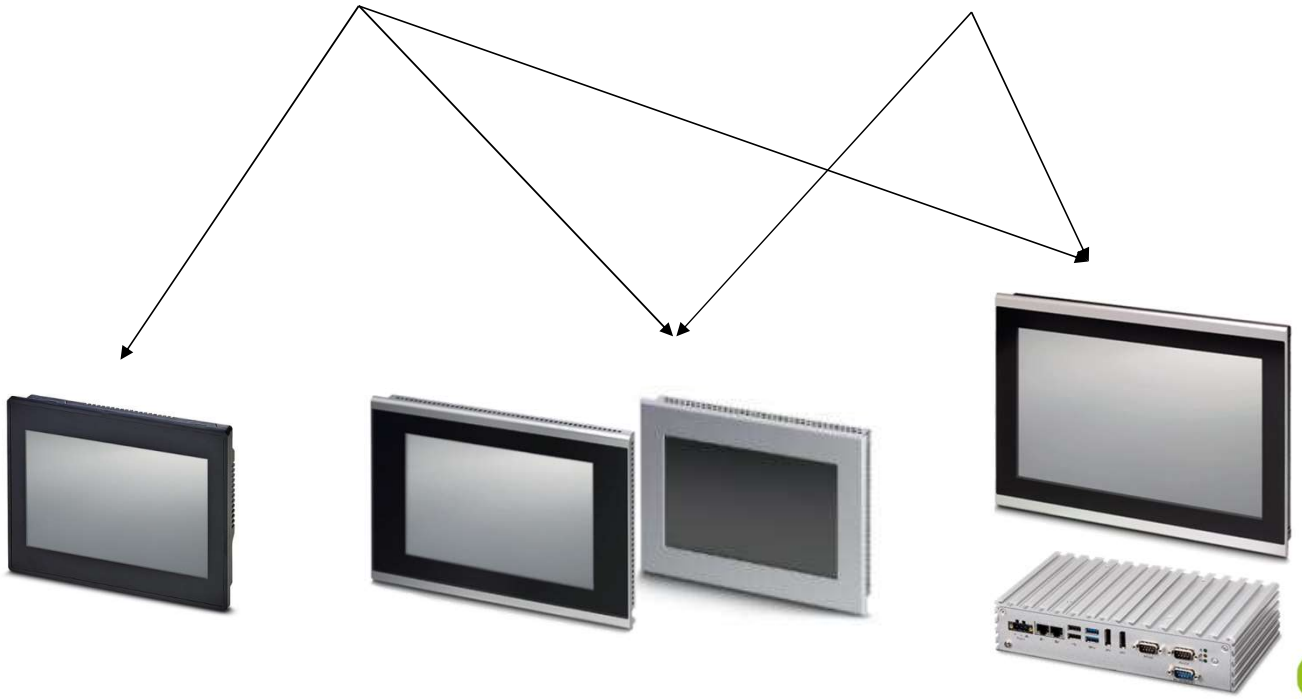
HMI/IPC | Visualization Software

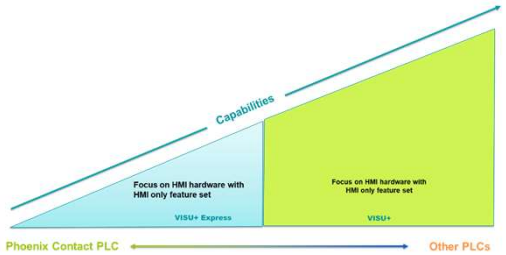
VISU+ *Express*
HMI Visualization

VISU+
SCADA Visualization



BENEFITS:

- **Same engineering tool, same appearance and major functionality**
- **Scalability & reuse of projects and applications**
- **Hardware platform independence**



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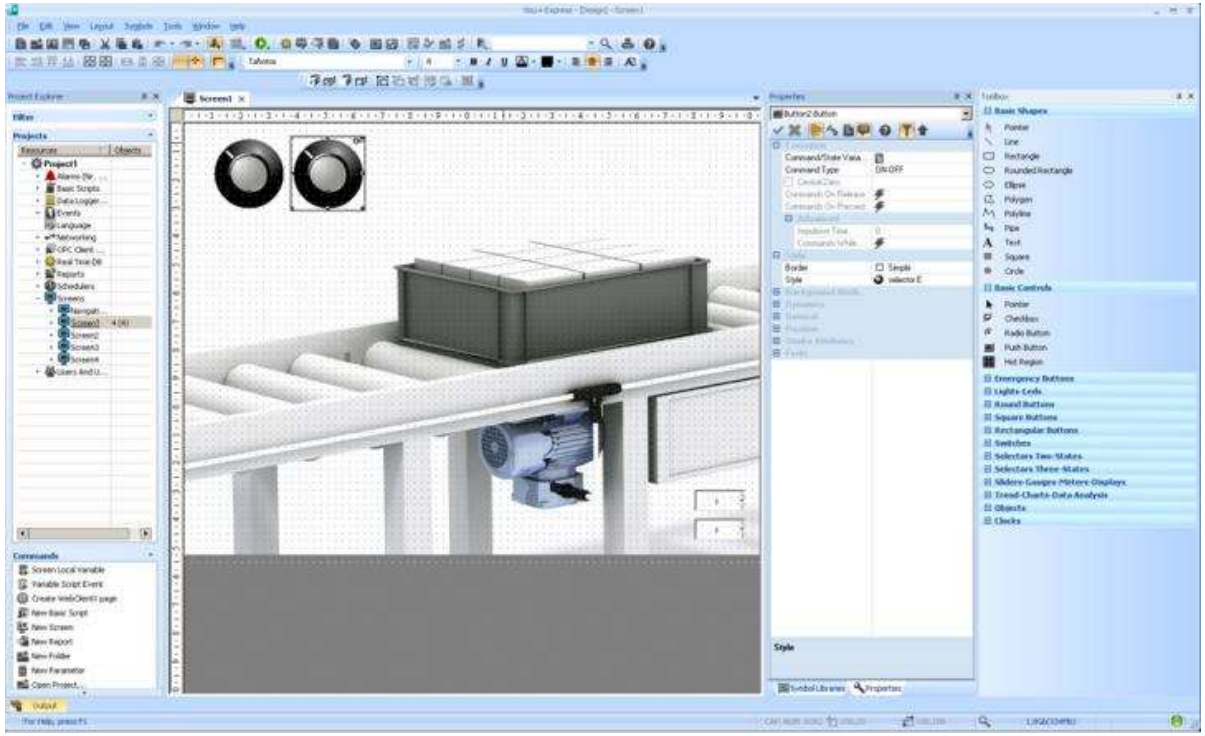
Design Software

VISU+ Express
HMI Visualization

- EXPRESS is FREE
  - Free download
  - Search for 2402774
- Scalable
  - Derived from SCADA package
  - High quality graphics
  - Simplified user interface
- Advanced
  - Alarming
  - Trending
  - Data Logging
  - Recipe Handling
  - Remote Screen Access
  - …



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VISU+ / VISU+ Express – communication drivers

Your connectivity options!

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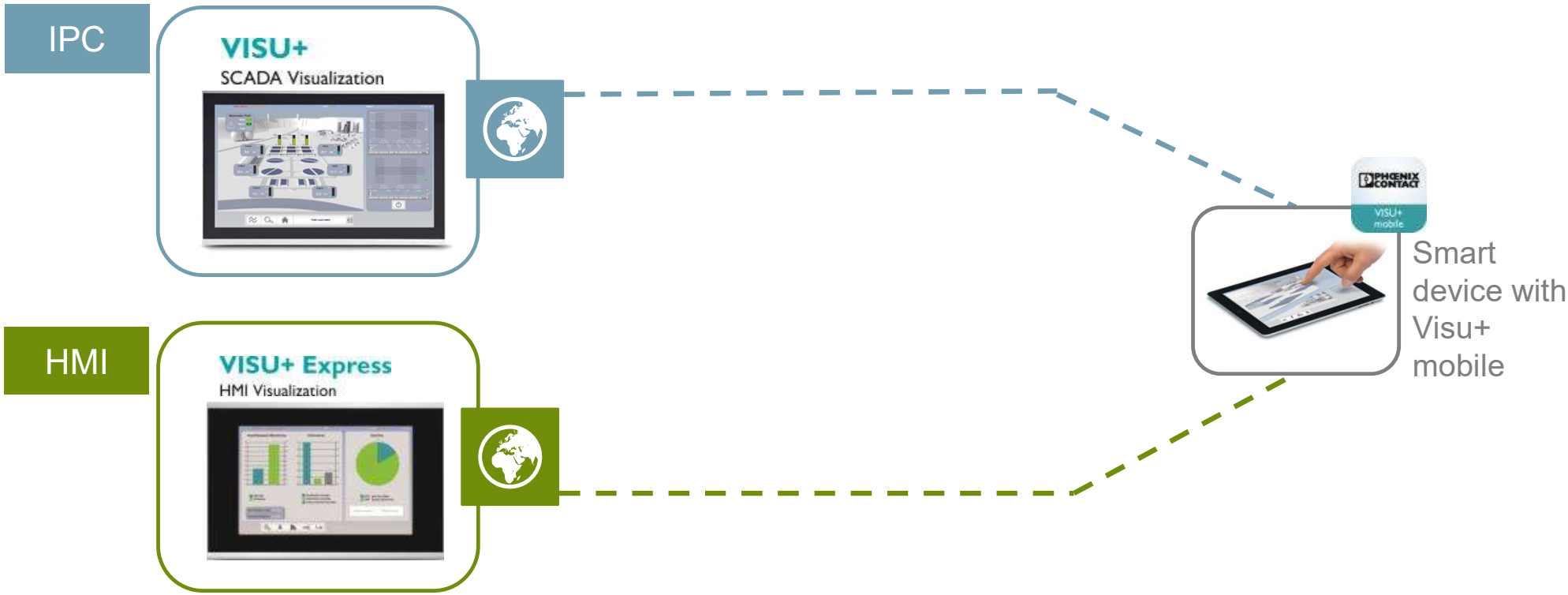
Remote data access with WebClient



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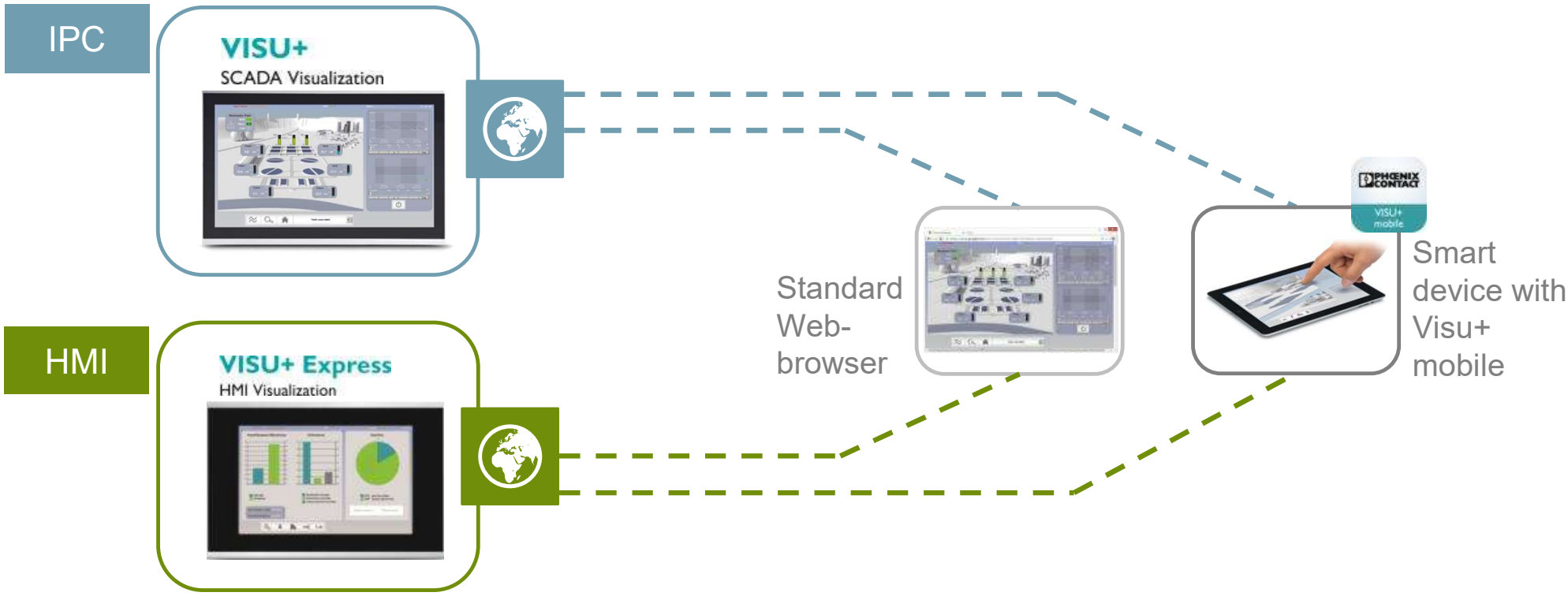
Remote data access with WebClient and HTML5



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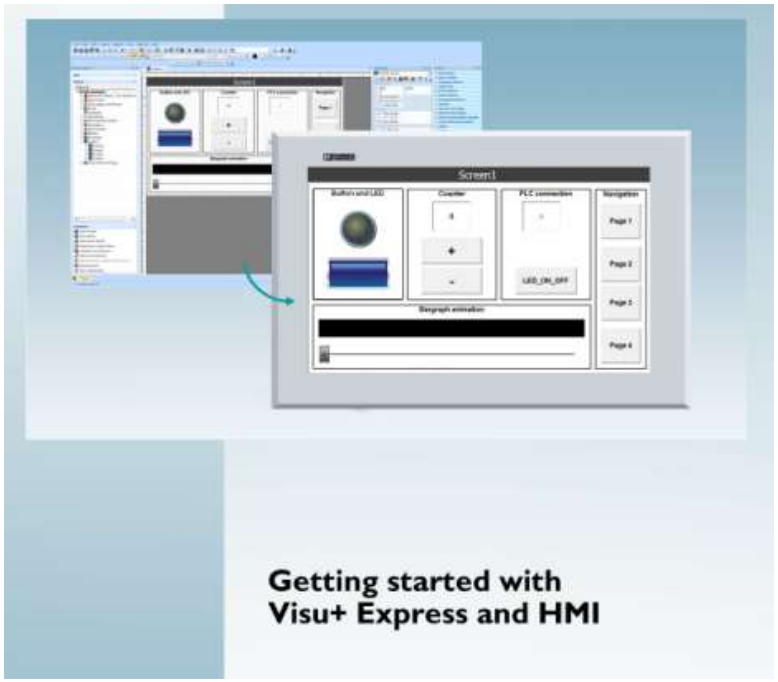
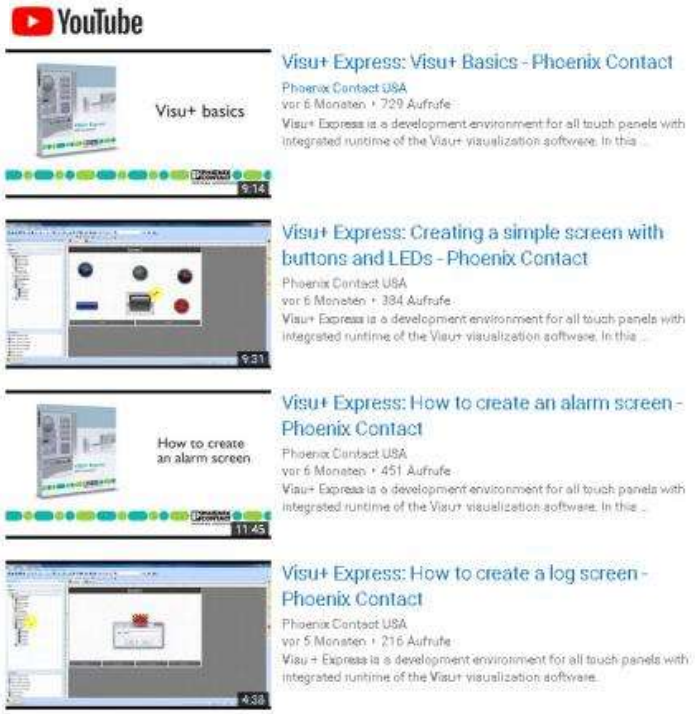
How to get started?



2402774 - VISU+ Express



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TP 6000 - HMI Panel with Capacitive Touch

Proximity sensor
(12" models and above)

High brightness Screens
from 7“ to 12.1“ size

Capacitive (PCAP) multi touch

Wide viewing angles and scratch resistant glass front

-20 …50°C operating temperature

Visu+ runtime preinstalled

pxr
TP6000

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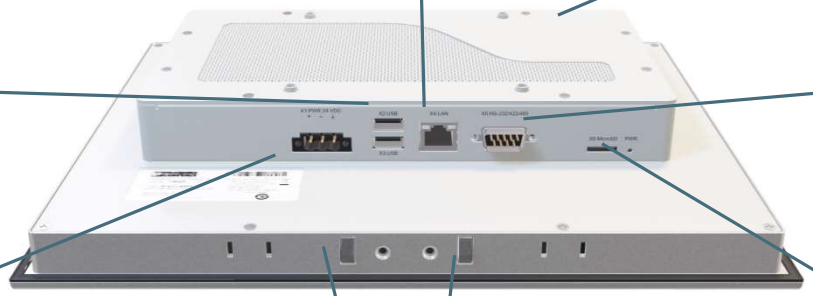
TP 6000 - HMI Panel with Capacitive Touch



Single x Ethernet 10/100/1000 (RJ45)

1 GB internal Flash data memory

Dual x USB 2.0

Multipurpose Serial port
(1x RS-232 / 1x RS422/485)

24 V DC power ± 20%

Micro SD card slot for data storage

Spring loaded mounting assistance

TP6000

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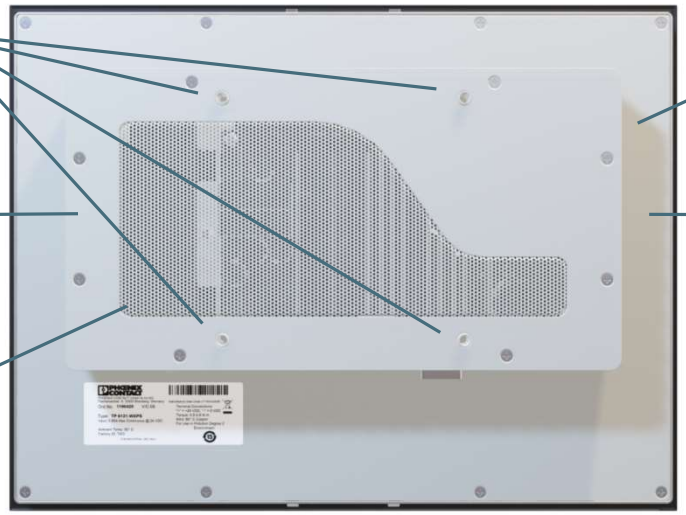
TP 6000 - HMI Panel with Capacitive Touch

VESA 100 mount

Quad-core Arm® Cortex® A9
800 MHz processor

System expandability



Robust metal housing

Slim and compact design:
45 mm depth

Same panel cut-out as WP
4000 at same screen size

pxr
TP6000

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TP 6000

Compatibility with existing TP / BTP / IPC products

Visualization software continuity

- Existing Visu+ customers can use the same visualization
- Same engineering tool
- Same communication drivers
- Same remote data access
- No changes to existing projects necessary

→ No transition pains!

Technical support structure is already in place

- Experienced
- Synergy with other Visu+ products

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TP 6000

Compatibility with Existing WP / IPC products

Hardware Continuity

- Existing customers benefit from same front panel appearance, no matter if they use TP 6000, WP 4000 or ‘VL’ class panel PCs
- Same flush front design
- Same IP65 ingress protection
- Same panel cut-out as WP 4000 at same screen size

→ Full Scalability between product platforms!

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TP 6000

Example: Compatibility with Existing WP 4000 products

- Customer uses runtime based visualization and wants to also access the visualization remotely.

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TP 6000 vs. TP 3000

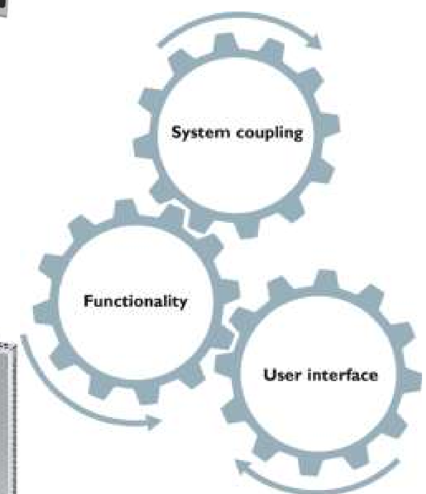
Comparison

TP 6000	TP 3000
1. Wide screen display sizes from 7“ to 12.1“ a) 15.6” to 21.5” screen versions in Q4/21 2. Common communication interface a) Dual 9pin dsub Serial & RJ45 Ethernet 3. PCAP touch screen 4. Proximity sensor saves energy and backlight life (12” screen size and up) 5. Standard Single person install 6. Standard Vesa Mount 7. More onboard memory 8. Onboard Gigabit Etherent 9. Industry solution panels (Rugged) planned 10. Competitively priced	1. Display sizes from 5.7“ to 15“ in 4:3 and 16:9 aspect ratio 2. Resistive, GFG and PCAP touch options 3. Panel mount only 4. 10/100 MBps Ethernet 5. Industry solution panels (Marine, Rugged) 6. Pricy

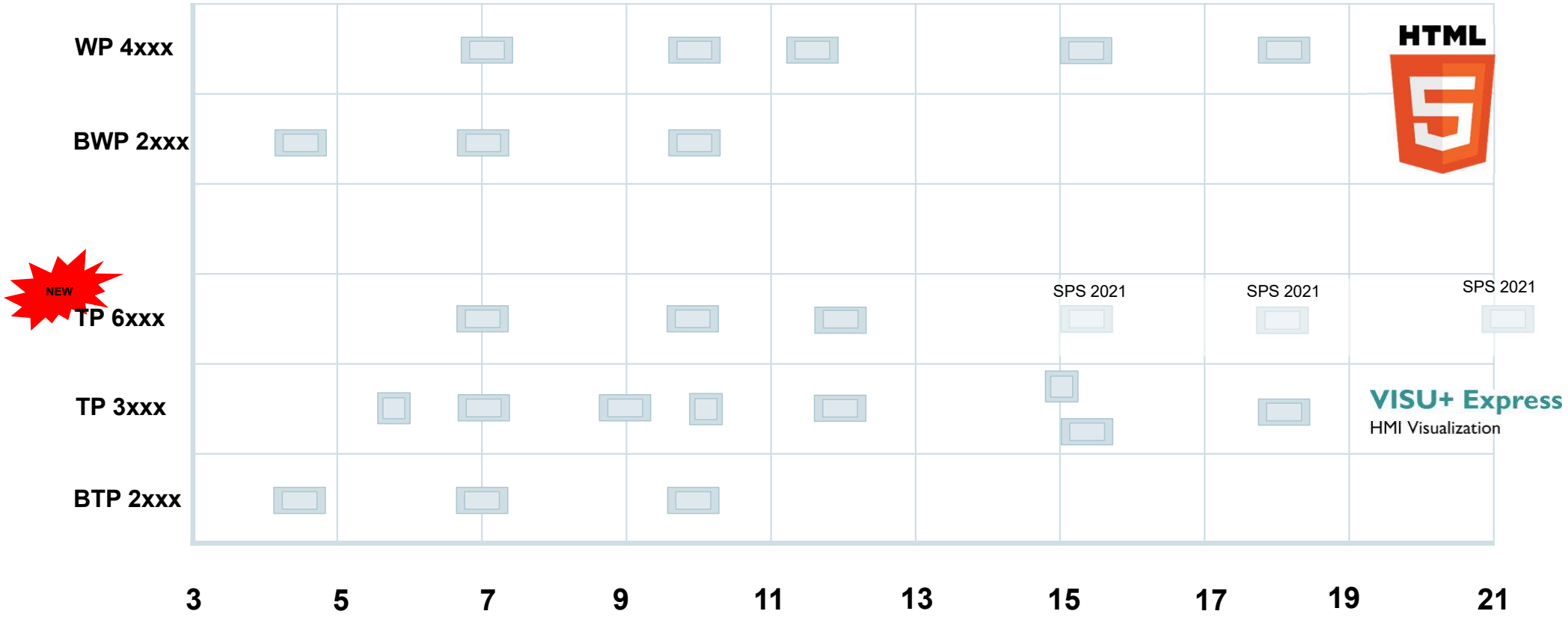
TP 6000 vs. TP 3000

Similarities

1. A single engineering environment for all visualization product lines
   - Visu+ *Express* - free of charge
   - Visu+ - powerful SCADA
2. Same native communication drivers
   - Seamless connection to all relevant control systems
3. Same OPC UA / DA connectivity
   - Seamless connection to other devices
4. Integration in PxC control Systems with PLCI driver



HMI product families and available screen sizes



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Thank you

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BWP 2000 WP 4000

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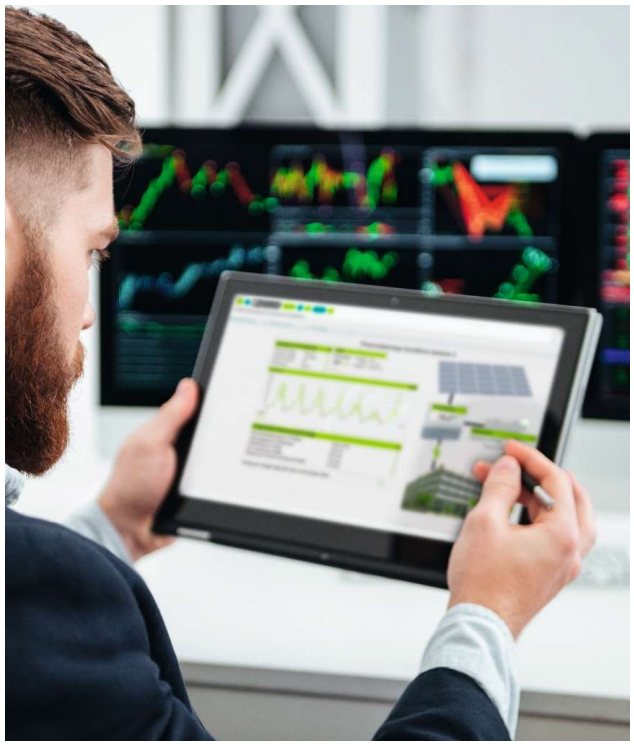
Webinars

Agenda

- HTML5
- Oferta de HMIs para HTML5
- VISU+ Express and VISU+ remote access via Webpage HTML5
- WP 4000 WITH CoDeSys Connections
- Softwares de Programación HTML5
- Webvisit
- SpiderControl WebServer



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Learn HTML5 - full course with code samples

Web Panel Advantages

EASY - HMI that does not require any local software download.
Simply points to IP address of ANY web server

OPEN – No longer tied to a communication protocol.
No Profinet, Ethernet IP, MODBUS TCP, etc.

UNIVERSAL - Allows secure connection between ANY web server and the web panel regardless if they are "side-by-side" or "across the globe"

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- OPEN AUTOMATION SYSTEM

- **Total Flexibility in Engineering**
  - ✓ **Virtually no limits to the graphical capabilities, and usability features that can be utilized**
  - ✓ **Future proof**
- **Open standard**
  - ✓ **Visualization is located on PLC**
  - ✓ **Facilitates Responsive Design**
  - ✓ **HMI Hardware is independent from Engineering Tool**
  - ✓ **Works with industrial HMI devices, Smart Phones, Tablets and PCs**

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HMI product families

Two classes of products

- *Standard – WP 4000*
  - Best in class hardware
  - Wide product choices

- *Basic – BWP 2000*
  - Applications with basic performance needs
  - Price sensitive applications & markets

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Standard Web Panel – WP 4000

- Screen sizes 7“, 10.1“, 12.1“, 15.6“, 18.5“ PCAP Multi-Touch
- Arm Cortex A53, 4 x 1,2 GHz (Quadcore)
- Resistive 7“ Single-Touch option

- HTML5 Browser Qt
- All metal housing

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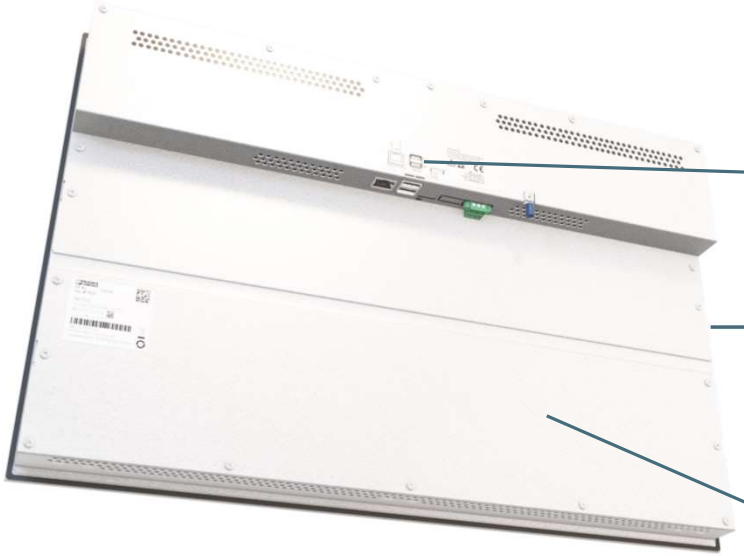
Standard Web Panel – WP 4000



1x Ethernet, 2x USB 2.0

Metal housing improves EMC

High-Performance CPU: Arm® Cortex®-A53 (Quad-Core)

Standard Web Panel – WP 4000

						
Description	**WP 4070-WVRS**	**WP 4070-WXPS**	**WP 4101-WXPS**	**WP 4120-WXPS**	**WP 4156-WHPS**	**WP 4185-WHPS**
Display size	17.78 cm (7“)		25.65 cm (10.1“)	30.73 cm (12.1“)	39.63 cm (15.6“)	47 cm (18.5“)
Touch technology	Analog resistive (Polyester)	Projected capacitive (PCAP)				
Physical dimensions	203 x 147 x 48	186 x 146 x 51	263 x 199 x 51	302 x 229 x 51	436 x 278 x 59	485 x 329 x 61
Weight	0.8 kg		1.3 kg	1.7 kg	4 kg	5.5 kg
Art.-Nr.	1148694	1148693	1148687	1148689	1148691	1148690

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Standard Web Panel – BWP 2000

- Screen sizes 4.3“, 7“, 10.2“
- 350 Cd/m² LED backlight
- Resistive single touch
- Arm Cortex A9, 1 GHz CPU

- HTML5 Browser Otter
- 0…50°C operating temperature
- Ethernet connectivity
- Plastic housing

Basic performance needs

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Comparison: WP 4000 vs. BWP 2000

WP 4000 	BWP 2000 
1. 6 display choices 2. Capacitive or 7“ Resistive touch 3. Can target 4 IP addresses 4. Higher screen resolution 5. Metal housing 6. Faster performance 7. Higher price	1. 3 display choices 2. Resistive touch 3. Can target 1 IP address 4. Standard screen resolution 5. Plastic housing 6. Basic performance 7. Lower price

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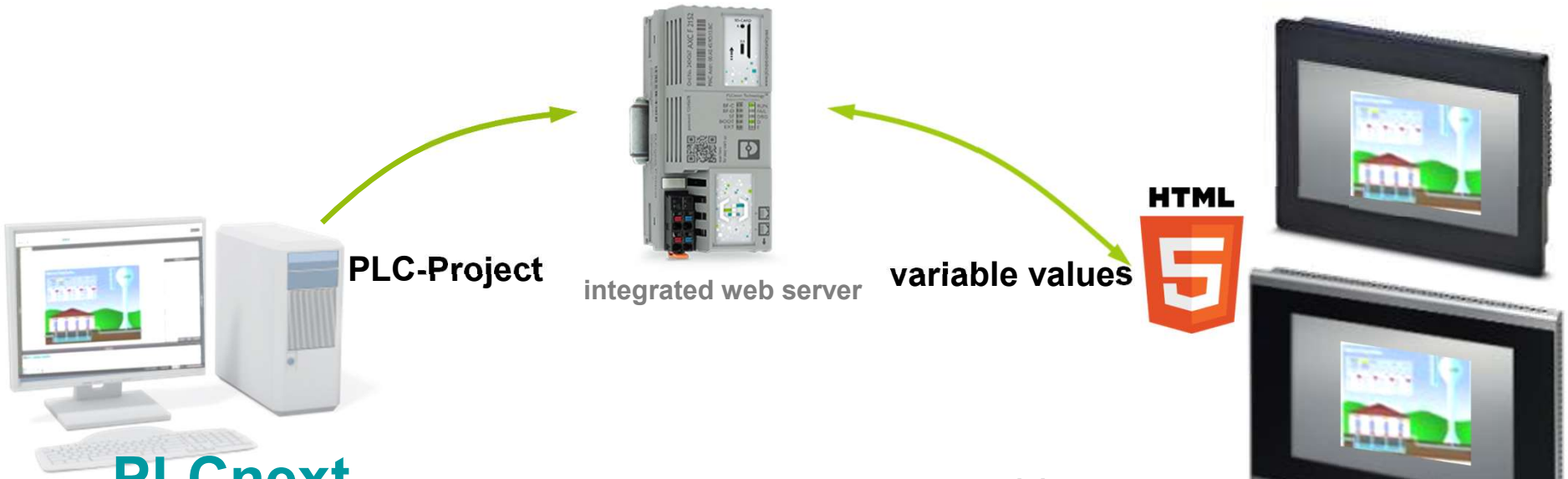
PLCnext Technology Components

Integrated web server for HMI

PLCnext Technology
Designed by PHOENIX CONTACT



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HTML5 HMIs – ease & flexibility for sales

- No need to sell software
  - Customer does not need to be first convinced of the Visualization Engineering Tool
  - Makes the sale less complex as this is just a pure hardware component sale
  - Faster opportunity turnaround time

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Visu+ Remote Access via Webpage (HTML 5)

This guide will step you through on how to connect remotely to a Visu+ project through a web client.

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Visu+ Remote Access via Webpage (HTML 5)

Part 1 Connecting to a Touch Panel or Basic Touch Panel

Number of Allowed Web Client Connections

- BTPs allow for 1 remote web client connection.
- TPs allow for 2 simultaneous connections.

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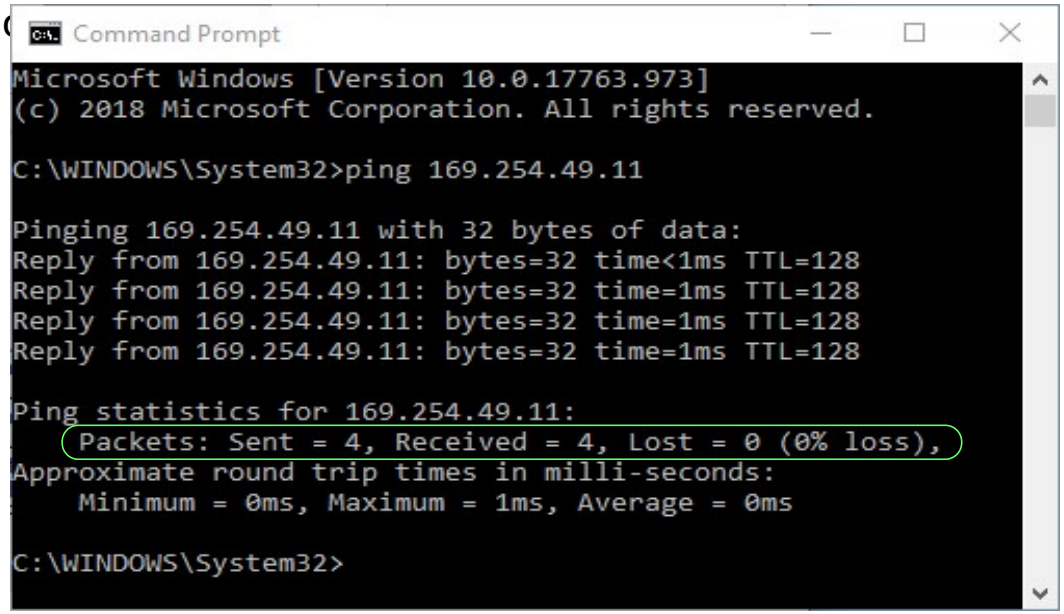
Visu+ Remote Access via Webpage (HTML 5)

Preparations

1. In a Windows PC, open a Command Prompt and make sure you c
   the target panel.



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Visu+ Remote Access via Webpage (HTML 5)

Preparations

2. To view screens from a browser you will need to make an HTML page of the opening Screen:

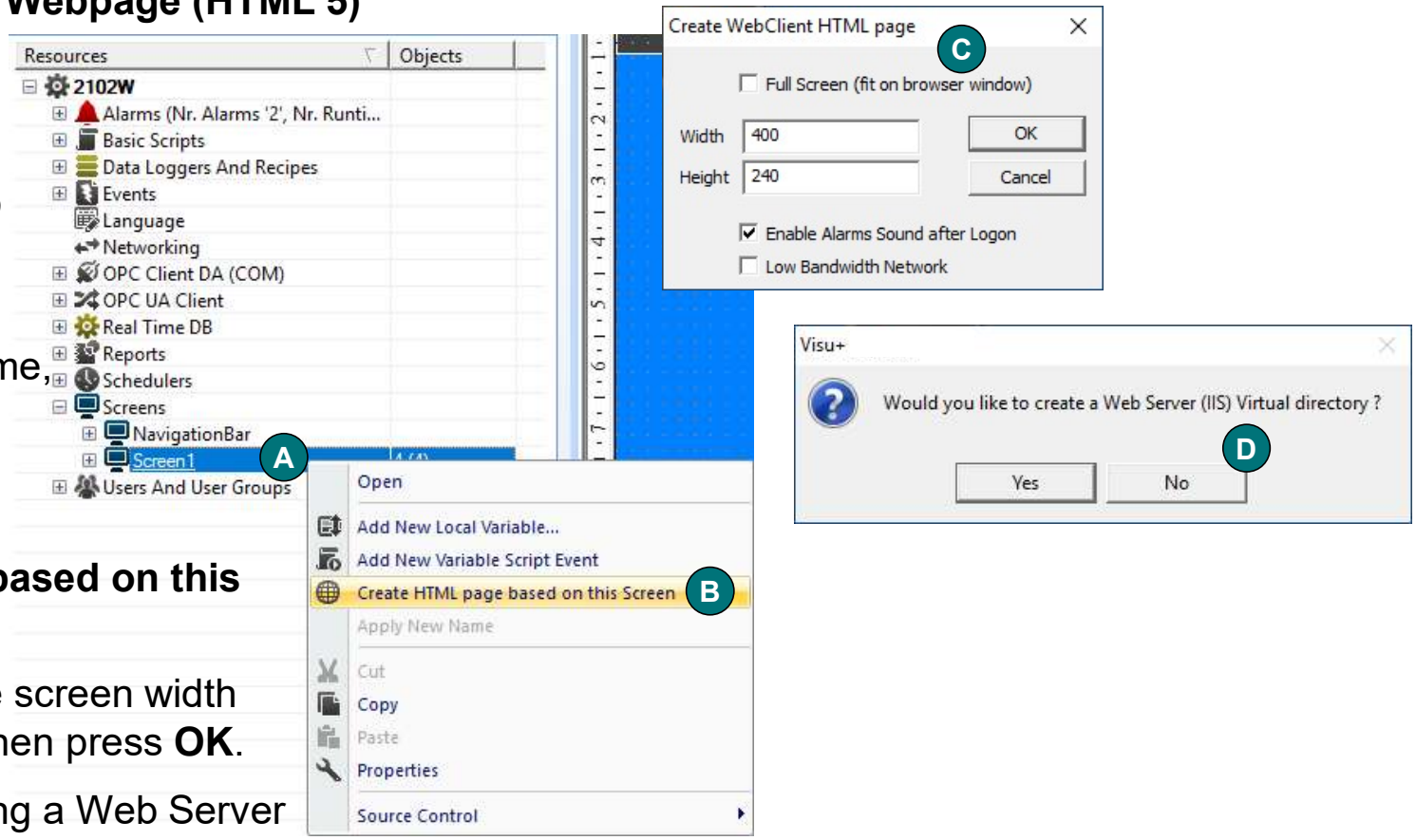
   A. Under the project name, open **Screens**, then right-click on the desired screen.

   B. **Create HTML page based on this Screen**.

   C. If needed, specify the screen width and height in pixels then press **OK**.

   D. Answer **No** for creating a Web Server IIS* Virtual Directory.

   *Microsoft Internet Information Service



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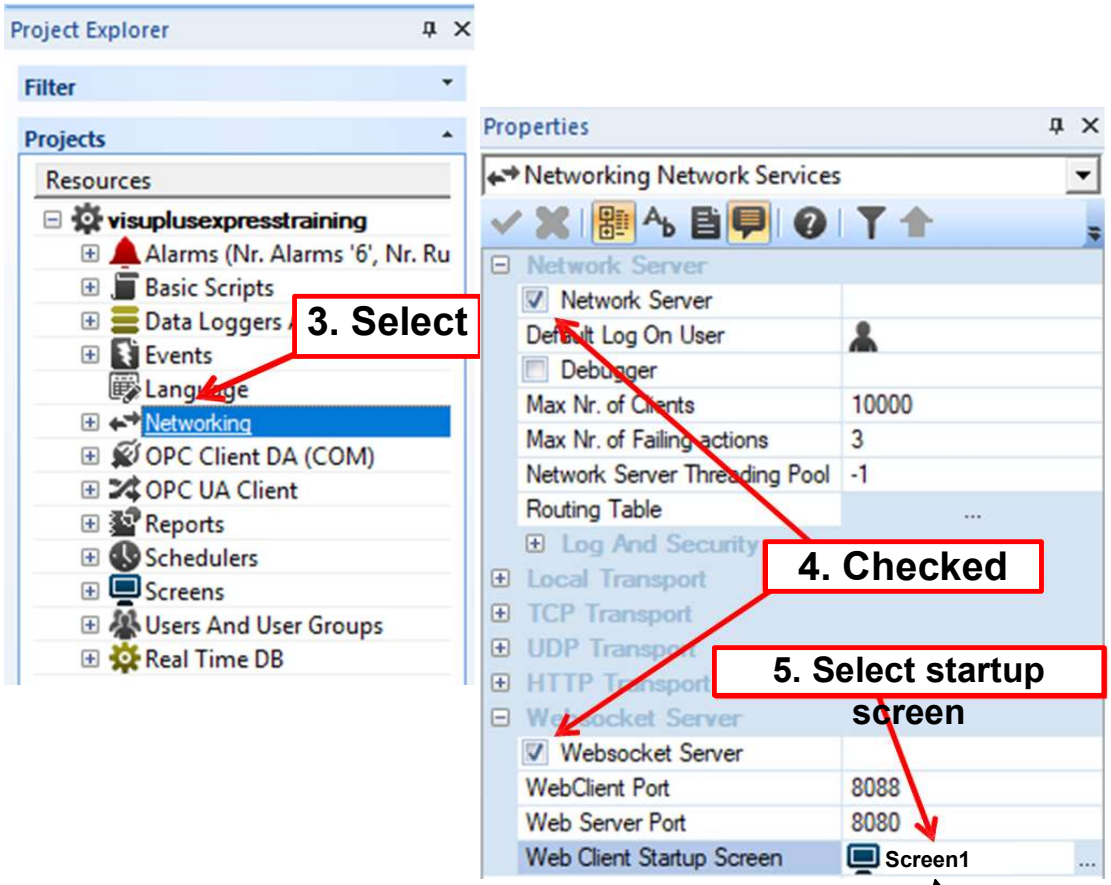
Visu+ Remote Access via Webpage (HTML 5)

Preparations

3. Under the Visu+ Project select **Networking**.
4. Under **Properties** make sure the following are checked:
   - **Network Server**
   - **Websocket Server**
5. Select the **Web Client** (version of the) **Startup Screen**. This is the screen that was created as an HTML page in Step 2.



For example purposes, your screen name will most likely be different.

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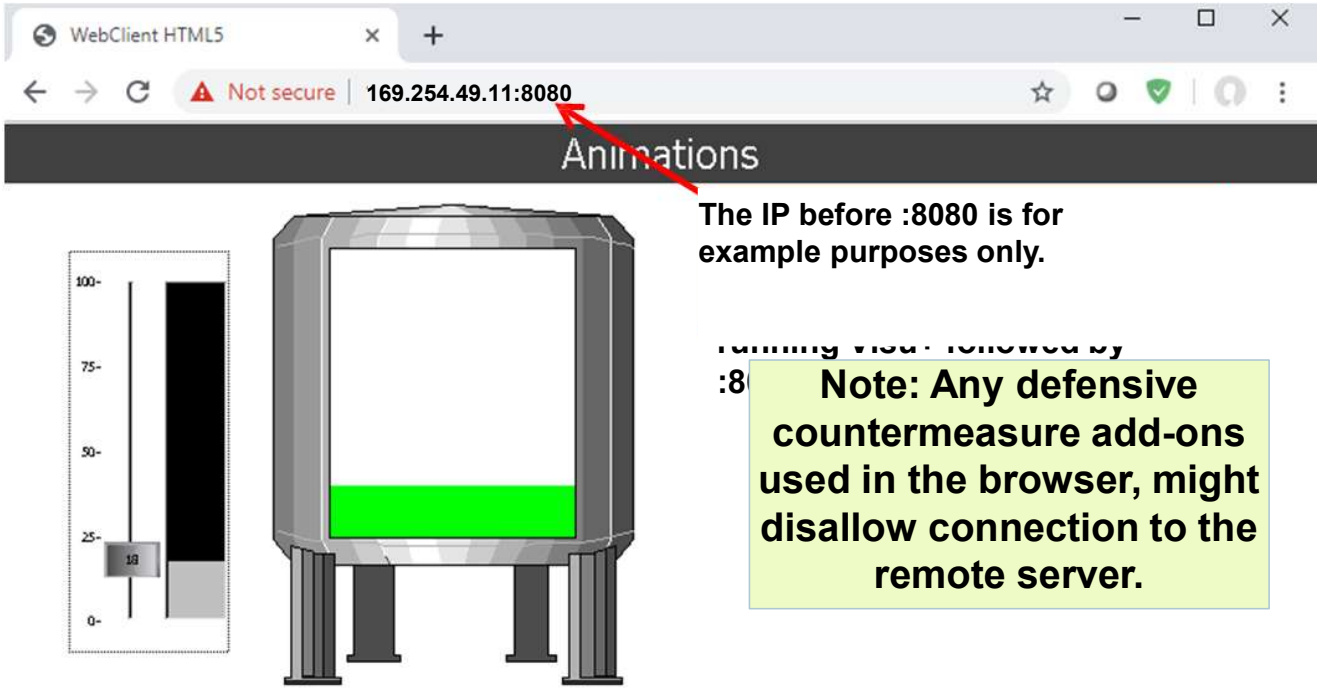
Visu+ Remote Access via Webpage (HTML 5)

Connecting Remotely

6. Open a web browser in a remote PC, then type the **ipAddressOfTP:8080** to access the screens remotely.

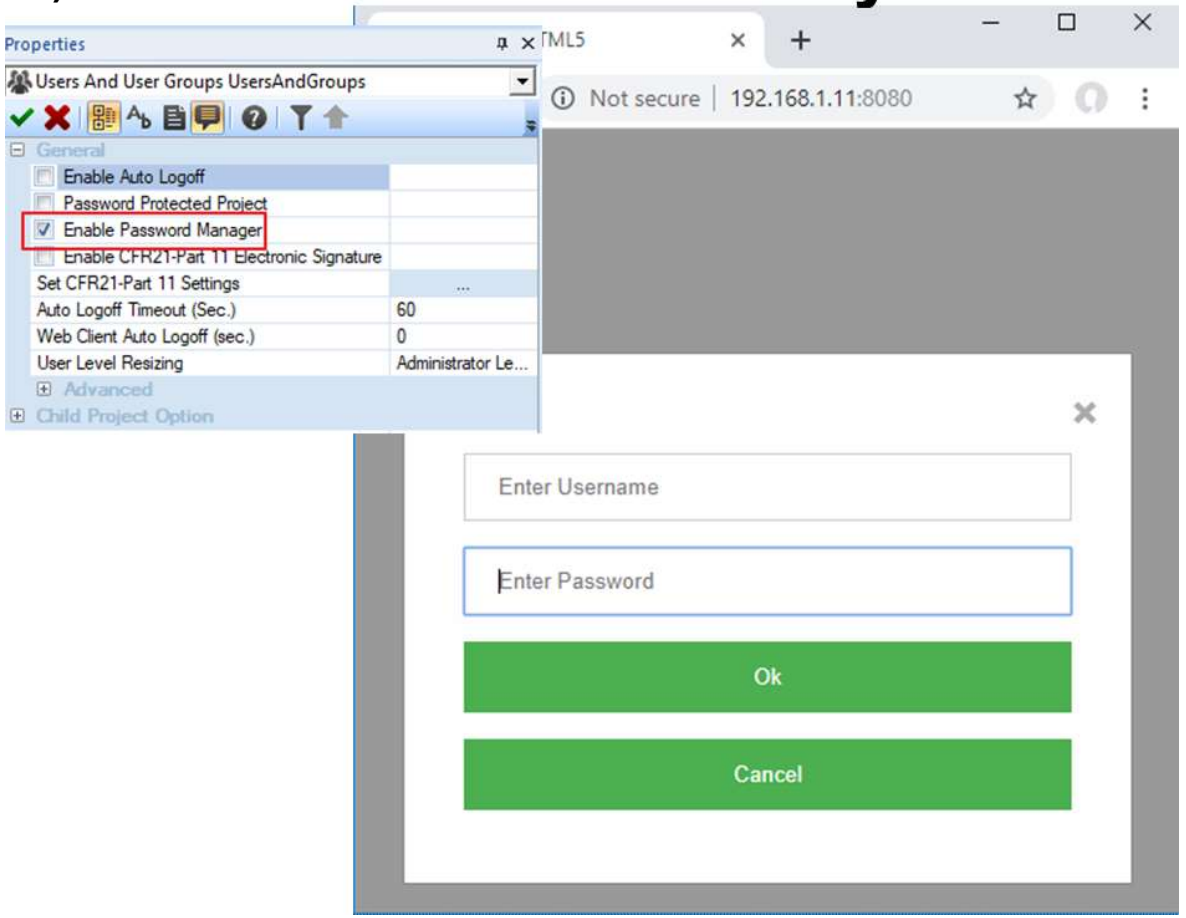


NOTE: <u>Expect delays</u> in viewing remote access screens compared to operating them locally, especially busy, animated screens with motion. More objects = more delay, which could be worsened when the data is transmitted wirelessly.

Visu+ Remote Access via Webpage (HTML 5)

Security

7. If **Enable Password Manager** is checked in development mode, the logon screen will appear on the web client.
8. Web client users and local users can use the panel simultaneously and maintain individual user rights.
9. To log a user off remotely, close the session by closing the tab in the web browser. To change users, close the tab, reopen a new tab and remote-in.



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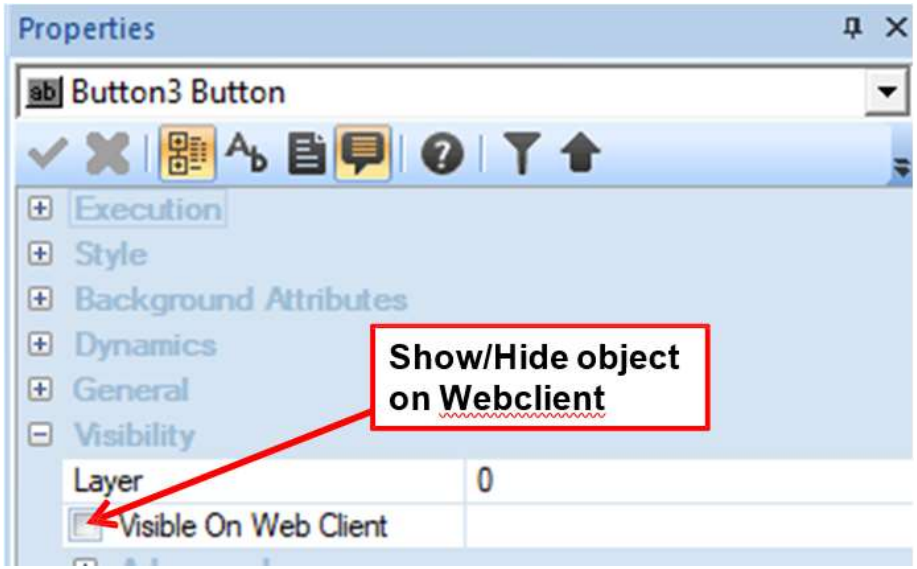
Visu+ Remote Access via Webpage (HTML 5)

10. Developers have the option of hiding certain objects in the web client to make them inaccessible.
11. Login/Logout buttons are a great example since they do not function from the web client. This is because they are tied to the local user logged in, not the remote/web user.

Object Visibility



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Visu+ Remote Access via Webpage (HTML 5)

Part 2 Connecting to a Remote PC That is Running a Visu+ Project

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CoDeSys

The CODESYS GmbH, formerly 3S-Smart Software Solutions GmbH, was founded in 1994 by Dieter Hess and Manfred Werner. Core products are CODESYS (Controller Development System), the leading IEC 61131-3 programming system for professional application development in the industrial automation field and CODESYS Control the platform independent controller system. Around these core products, CODESYS offers a whole range of integrated product extensions for motion control or visualization. Today, CODESYS employs more than 100 specialists, responsible for the development and distribution of CODESYS. CODESYS is used in virtually all sectors of the automation industry by manufacturers of industrial controllers or intelligent automation devices, by end users in the most different industries or by system integrators who offer automation solutions with CODESYS. The close customer contact CODESYS has always cultivated is certainly one of the main guarantors for the user friendliness of the CODESYS products.

Automation Server
SoftPLC
Communication
Engineering
Webserver

Some PHOENIX CONTACT worldwide (most in Europe) , sometimes program on this platform and conect I/O Systems, Controllers, and more things to CoDeSys software to develop specific application

Targeting New Opportunities Using WP 4000 with CoDeSys Connections

Why now..

- As the Industrial marketplace continues to advance, our HMIs are faced with an enormous challenge to provide connectivity to everything under the sun...
- Today, we connect to a wide variety of devices but often overlooked is our seamless connection to many of the popular protocols including CoDeSys
- We offer unique solutions that
  - Simple and easy to implement
  - Require little to no engineering or programming
  - Add value to system
- Let's learn more about our unique approach to solving these types of requests.

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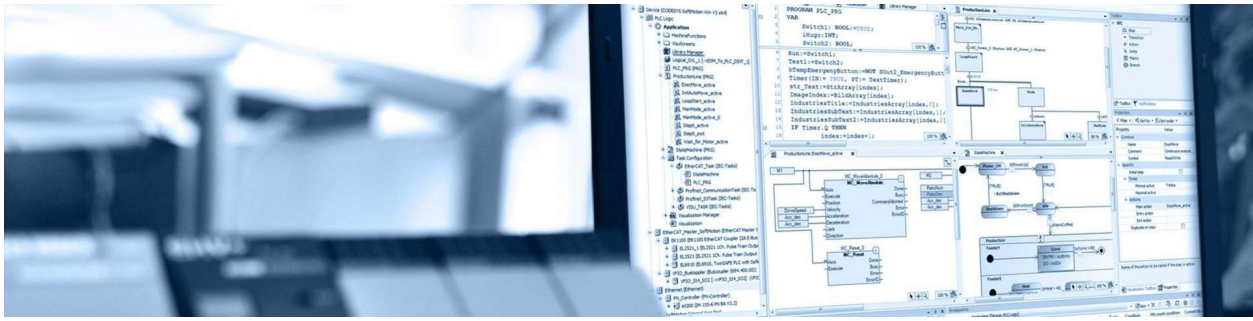
What is CoDeSys?

- Short for Controller Development Systems
- Technology developed by 3S Smart Software Solutions GmbH
- 3S maintains ownership/ IP but licenses technology to other manufacturers and vendors
- Popular IEC 61131-3 software environment, very strong presence in Europe but technology has started to grow around the world
- CoDeSys



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Why is CoDeSys popular for Industrial Automation?

Users find this environment useful for:

- Configuring Sequence and Fieldbus Control
- Planning and execution of complex motion control or CNC movements
- Programming of safety applications according to DIN IEC 61508 SIL3
- Creating visualization screens for machine operation
- Automation projects can be implemented without the user having to leave the familiar development interface.

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Which Industries utilize this technology?

Factory Automation
- Packaging, Printing & Paper, Material Handling, Machine Tool, and Electronics Manufacturing Services (EMS)

Process Automation
- Water & Wastewater treatment, Oil & Gas, Mining and Minerals, Food and Beverage, etc.

Building Automation
- Lighting, Heating, Cooling and Ventilation controls, etc.

Renewable Energy
- Solar/Wind controllers

Mobile
- Construction, Mining, Marine and Agriculture

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Which applications benefit from this technology?

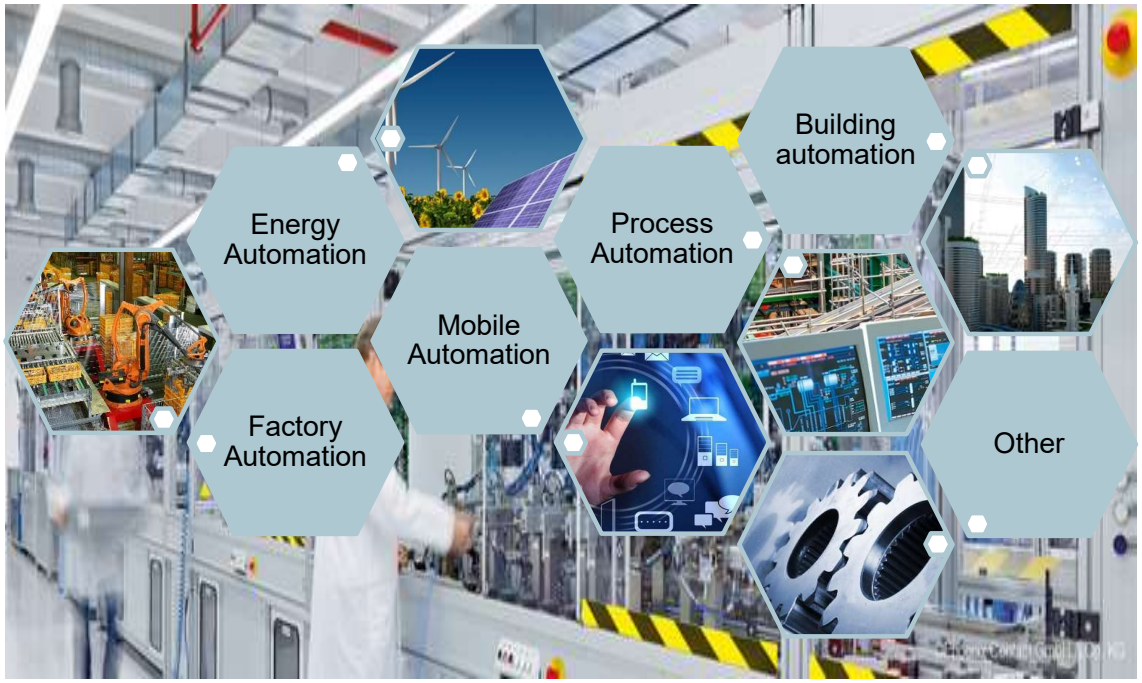
Factory Automation
- Everything from Vertical / Horizontal Fill Form and Seal (V/HFFS) Machines to Flexographic machinery

Process Automation
- H2O Desalinization, Pulp & Paper Converting to Upstream Oil & Gas concentrators

Building Automation
- Ventilation controllers for commercial to agriculture

Renewable Energy
- Controllers for Solar panel tracking

Mobile
- Electronic Control Units (ECUs) in construction , Marine and mining machinery



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Why should sales members care?

- SIs, OEMs and End Users are standardizing on control technology and establishing hard specifications - effectively limiting your opportunities and/or locking you out of accounts
- Automation suppliers are pushing for tightly integrated solutions to limit competitor opportunities
- Resource deprived engineering teams are strained and unwilling to take on developing HMI screens to accommodate “your solution”
- Decision makers are focused on Total cost of ownership
- Maintenance personnel are more concerned with ..”if it ain’t broke…”

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Why should sales members care?

Opportunities for HTML5 based HMIs:

- Are door openers and enabling technologies
- Offer seamless connections to automation devices through onboard webservers including native PLCNext controllers and now CoDeSys enabled devices
- Reduced system complexity - there is no additional programming for the HMI, simply assign target IP address, connect and go
- Can be positioned as an industrial thin client web display for those “hard spec account” with perceived HMI objections.

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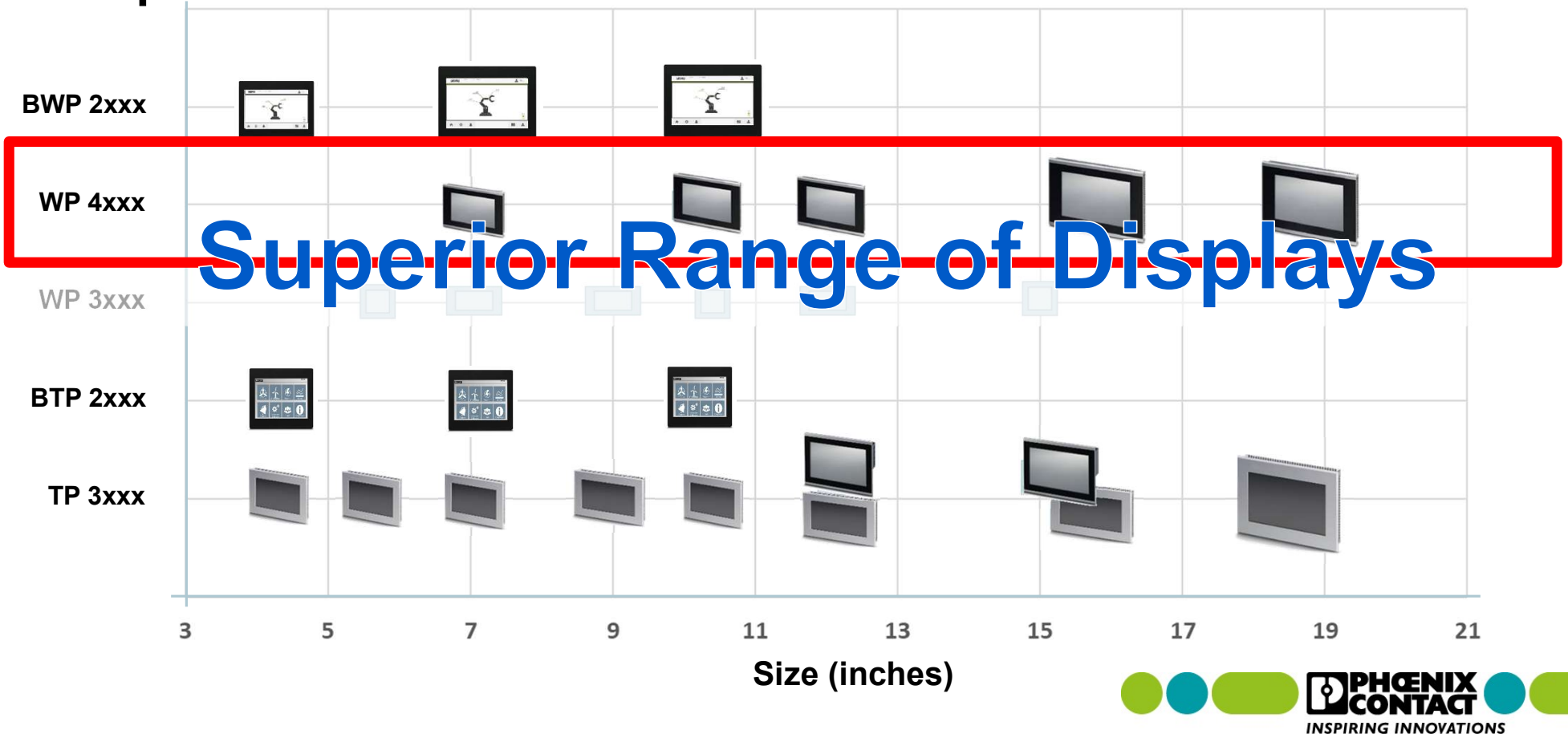
Comprehensive HMI Portfolio



Superior Range of Displays

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Standard HTML5 Web panel – WP 4000

- Screen sizes 7“, 10.1“, 12.1“, 15.6“, 18.5“ PCAP Multi-Touch
- Resistive 7“ Single-Touch option
- High-Performance CPU: Arm® Cortex®-A53 (Quad-Core)

- HTML5 Browser Chromium
- Metal housing
- Real Time Clock with Gold-Cap (Super-Cap) backup
- 1x Ethernet, 2x USB 2.0

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WP 4000 – HTML5 HMI

WP 4000 Product family

						
Description	**WP 4070-WVRS**	**WP 4070-WXPS**	**WP 4101-WXPS**	**WP 4120-WXPS**	**WP 4156-WHPS**	**WP 4185-WHPS**
Display size	17.78 cm (7“)		25.65 cm (10.1“)	30.73 cm (12.1“)	39.63 cm (15.6“)	47 cm (18.5“)
Touch technology	Analog resistive (Polyester)	Projected capacitive (PCAP)				
Physical dimensions	203 x 147 x 48	186 x 146 x 51	263 x 199 x 51	302 x 229 x 51	436 x 278 x 59	485 x 329 x 61
Weight	0.8 kg		1.3 kg	1.7 kg	4 kg	5.5 kg
Typ	WP 4000	WP 4000	WP 4000	WP 4000	WP 4000	WP 4000
Art.-Nr.	1148694	1148693	1148687	1148689	1148691	1148690

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Our Solutions for CoDeSys

How to leverage our HMI portfolio and take advantage of our technology?

We offer two solid solutions to address CoDeSys requirements

1. For modern devices running CoDeSys Webserver for visualization, we offer the WP4000 HMIs
   - Simple connection using HMTL5 technology
2. For most legacy devices running CoDeSys SoftPLC (V2.3 & 3), our TP3000 HMIs with Visu+ can be specified
   - Direct connection

TP3000 with Visu+

Connection: Direct

- Device access thru PLC Communication driver and user configured visualization

WP4000

Connection: HTML5

- Device access thru embedded webserver using the WP4000
- Point to the IP address and start visualization

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Our Competitive Advantage

We offer:

- A broad range of display solutions and technologies where other can't
  - Wide temperature, sunlight readable and ruggedize models
- Unique display sizes and formats for mature systems using TP3000 against limited offerings from other suppliers
- Complete solutions targeted for both modern (HTML5 based) and retrofit projects (direct connect) against the alternative or "one solution fits all requirements" approach from others

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Our Competitive Advantage

Cont.

- Industrial designed and harden hardware
- Solutions for both components and system based configuration
- No Windows security patches or additional updates to deploy or manage
  - Self contained and secure system solution
- Easy to replace, configure and deploy in the field (OEM ready) or within a facility (End User).
  - USB/MicroSD updates

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Manufacturer that offer CoDeSys compatible solutions

EXOR

Wago Kontakttechnik GmbH & Co. KG

Schneider Electric Automation GmbH

Hans Turck GmbH & Co. KG

JanzTec

Beijer

ASEM

Nexcom

Advantech

Elrest

Kontron

ESA

Liebherr

ifm

Festo AG & Co. KG

SABO Elektronik (Web Terminals) https://sabo.de/

Parker Hannifin

Berghoff

ABB Automation Products GmbH

KEB

Berghof Automation GMbH

Epis

Hottonger Baldwin Messtechnki GmbH

Altus Sistekas de Automacao SA

Bosch Rexroth AG

Eaton Industries GMbH

Hitachi Industrial Equipment Systems Co. Ltd

Keba AG

Lenze Automation GmbH

Parker Hannifin GmbH

Stober

Deif

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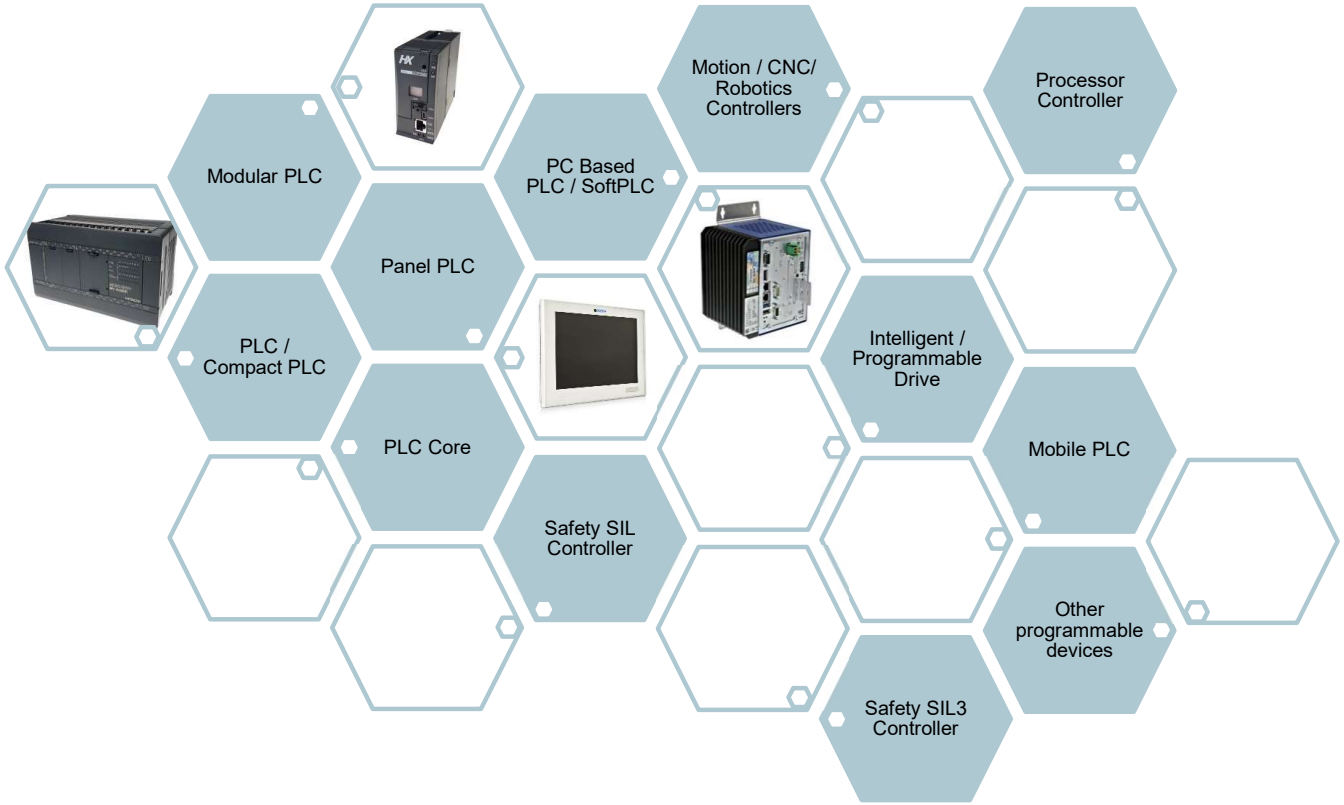
CoDeSys Device List



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Summary

- Sales teams have a number of solutions for CoDeSys requirements
- Change the narrative or continue to establish credibility with customers by introducing them to alternative solutions (web based HTML5 or the traditional configuration)
- Steer projects or new opportunity towards you portfolio
- Continue to leverage the full range of HMI solutions today and win new business

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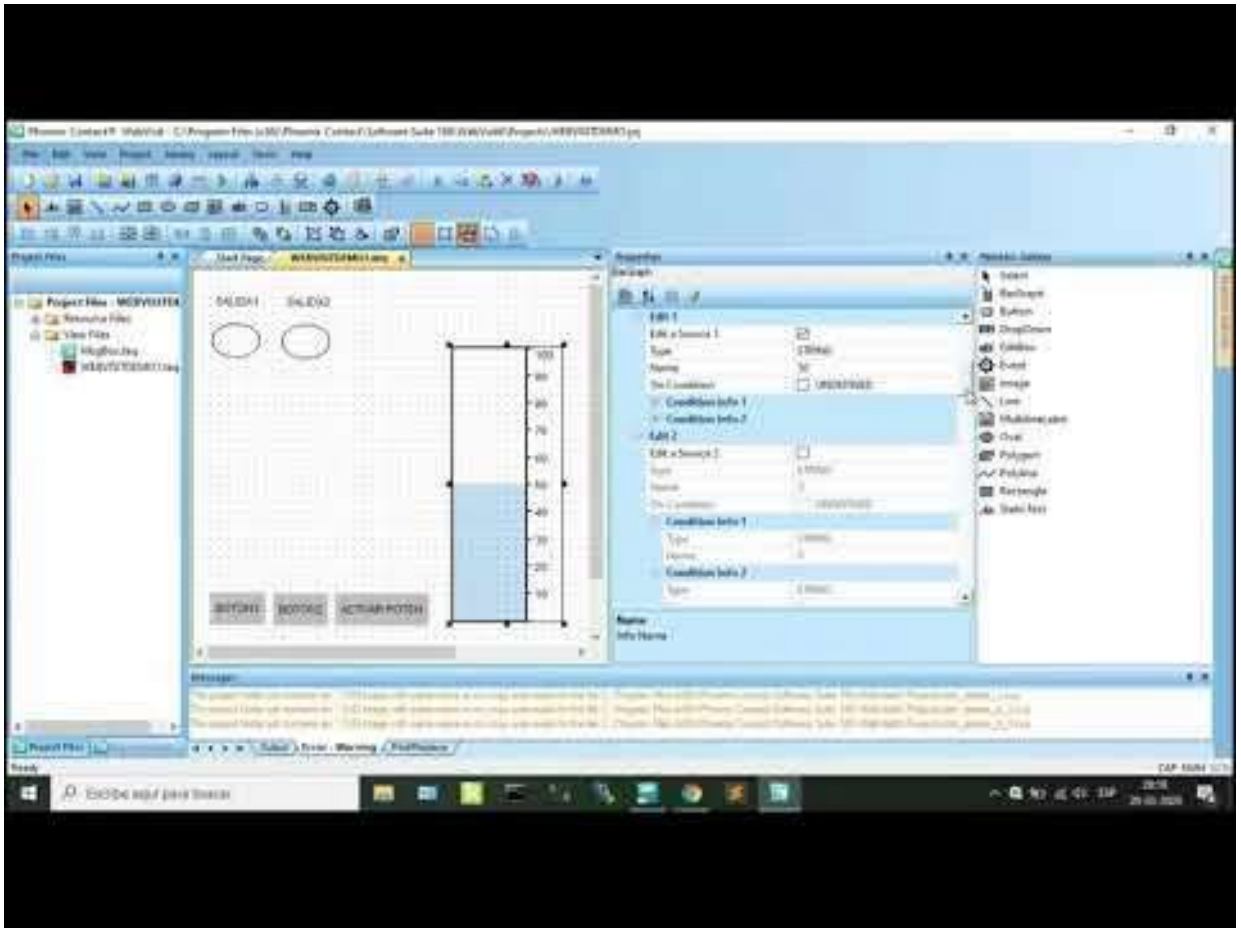
HMI Software products using HTML5

- Webvisit
- Visu+ HTML5 web client
- PLCnext Engineer HMI
- WEBfactory i4
- PROCON-WEB
- Atvise
- Wonderware InTouch
- CODESYS Webserver
- QuickHMI
- SpiderControl Webserver
- …

Webvisit

Tutorial



Tutorial Webvisit - Phoenix Contact

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WebVisit Part 1 Quickstart Advanced

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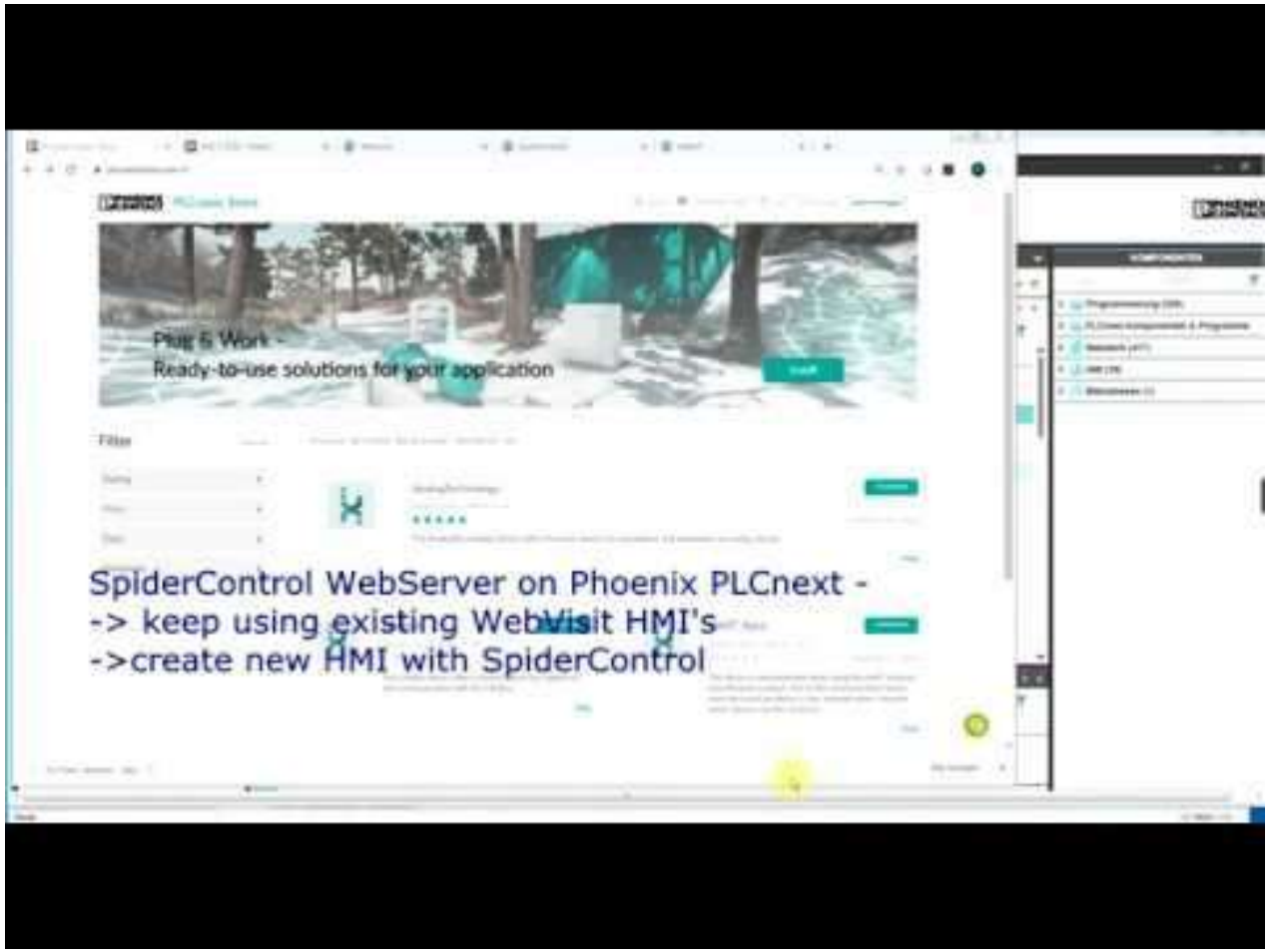
SpiderControl

WebServer

on

PLCnext

www.spidercontrol.net



PLCnext Webserver for WebVisit & SpiderControl HMI

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Webinar IMA 2020

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