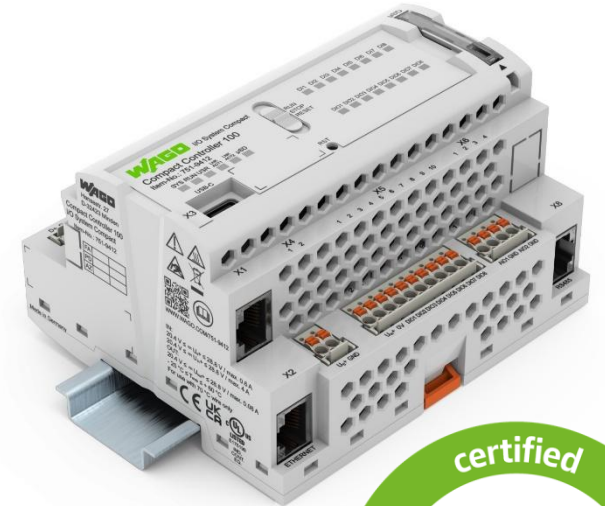


Spring 2026

Roadmap for the implementation of IEC62443

Stéphane Rey



Agenda

Topic 1 News product for IEC62443

Topic 2 CODESYS licenses

Topic 3 CRA roadmap

Topic 4 Overview device firmware und controller live cycle

Topic 5 Device Sphere and Device Manager



IEC 62443 Roadmap - Industry



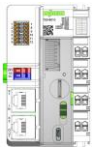
PFC300



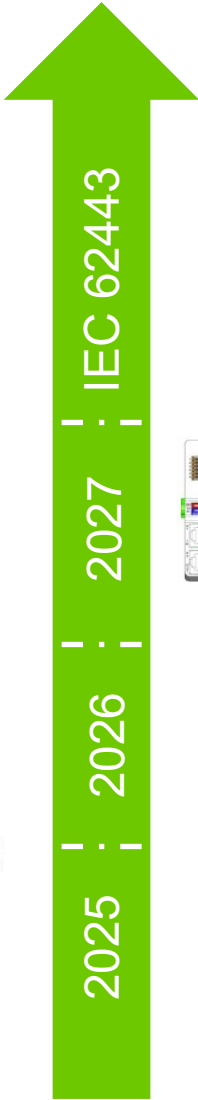
PFC400



CC100



BC100
FC EtherNet/IP
FC Modbus TCP



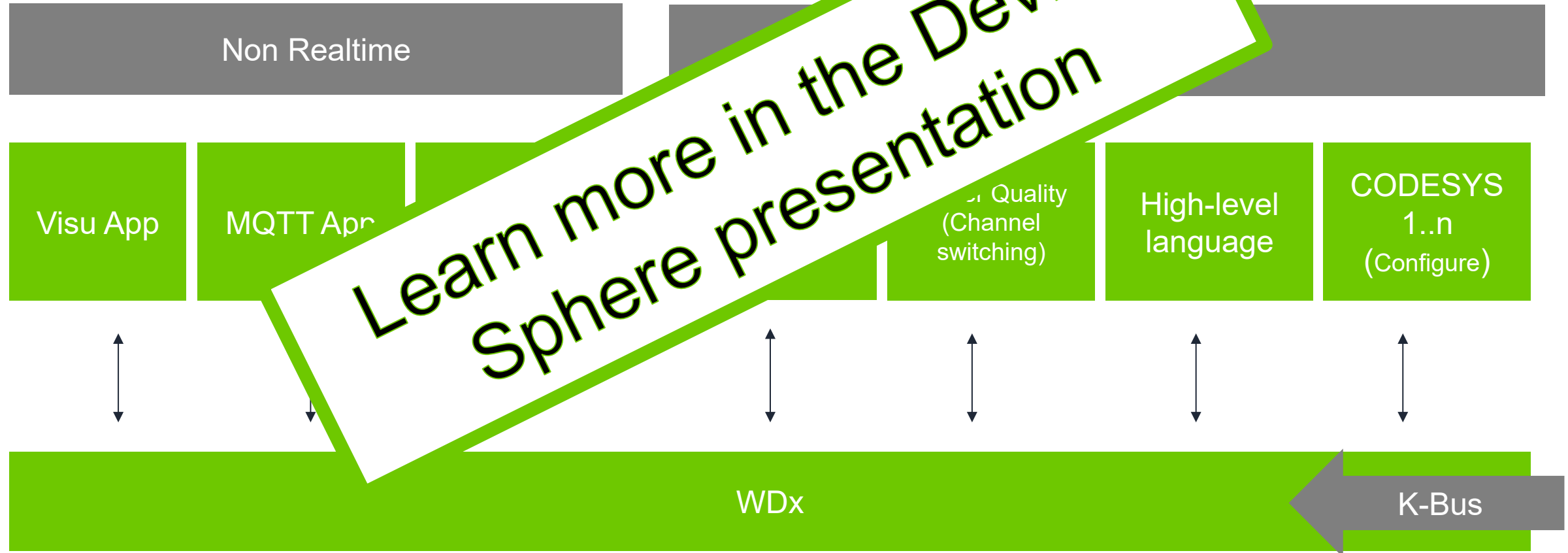
WAGO-OS Linux – New OS

- To meet the IEC 62443 requirements WAGO PLCs needs a new OS developed by the rules of IEC62443-4-1
- New WAGO-OS Linux is based on Yocto
- The architecture is based on a common layer and an intense containerization for the application layer
- The internal communication is based on the WAGO service protocol (WDx) which has a Rest API as a possible customer interface
- Multi client access to the process data of the local bus ($\geq$ FW 2)



WAGO-OS Linux:

New process data layer with multi-client access



WAGO-OS Linux – New OS Main Features



- Secure Boot, TPM 2.0 support
- Unique device certificate from the WAGO Device PKI
- Central certificate store
- Firewall
- Ipsec
- File encryption
- WAGO Device Manager as Web Based Management
- RBAC and LDAP/Active Directory support
- MQTT Broker (FW >= 2)
- Containerized CODESYS Runtime
- IEC 62443-4-2 SL2 -> certification (30.03.2026 TÜV Nord) for device CC100



CC100 SECURE
product feature briefing

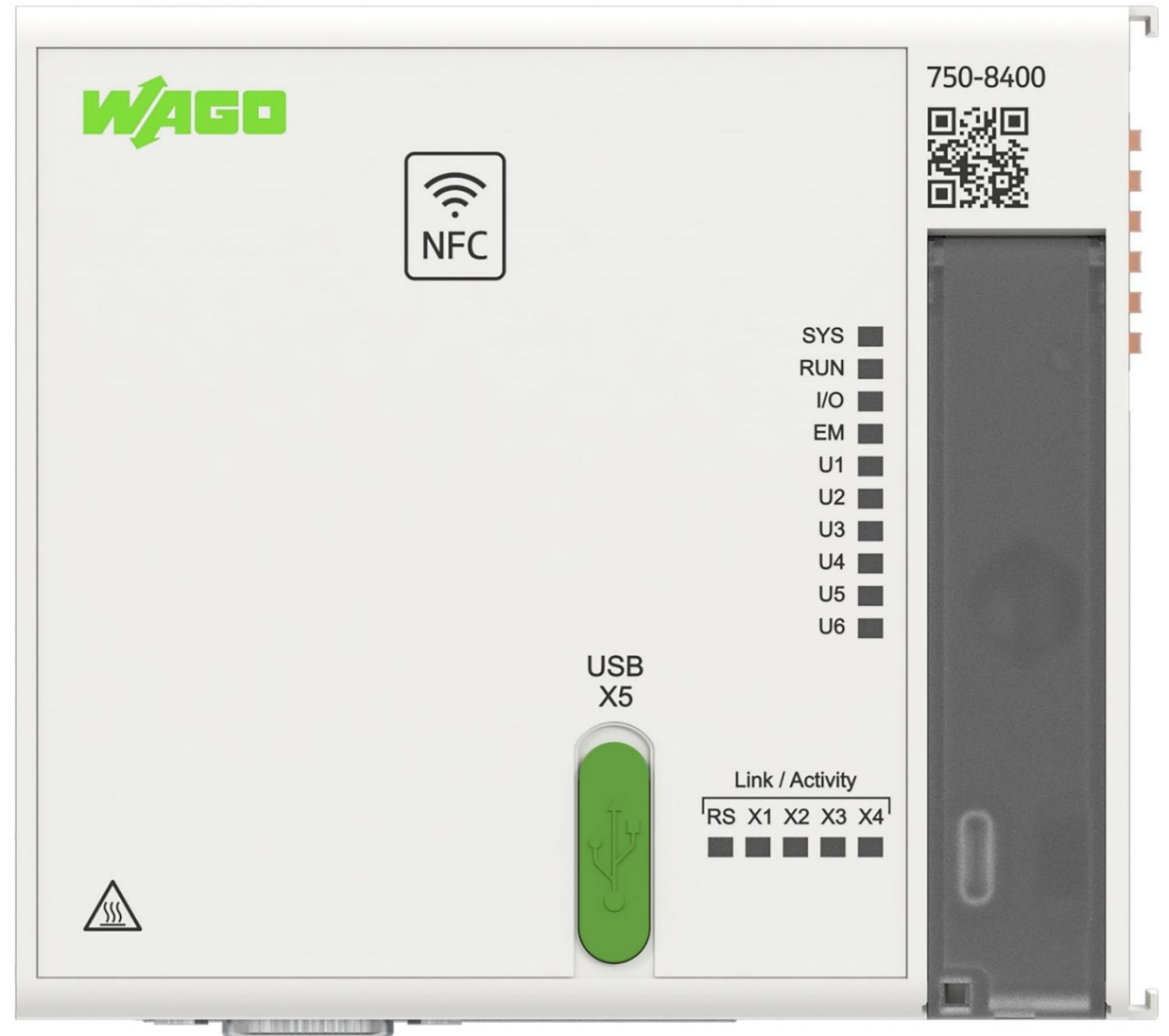
- Certification of CC100 V2 according to **IEC62443-4-2 (SL2)**
- New secure WAGO-OS Linux based on Yocto framework
- The CC100 Multi-I/O, 0751-9402 is the hardware basis
- Start product of a series of IEC62443 certified controllers

CC100 SECURE	
CPU	Dual Core - Cortex A7 650MHz
I/O Mix	8 x DI ... 24V 8 x DIO ... 24V - 0,5A 2 x AI ... (current or voltage) 2 x AIO... (current or voltage) 2 x NI/PT ... (miscellaneous) 2 x RS485
Service	USB-C WAGO Device Access
Housing	DIN Rail Mounting (DIN 43880)
Ambient Temperature	-25°C – 60°C
List price	649€





PFC400



PFC400

SEALABLE FLAP

protect the operating elements

NFC

setting IP-address via mobile app (power less)

μSD (SDXC)

up to 2 TB

USB-C Service Interface

easy comissioning via browser

RGB LEDs

Blue, Purple, Brown ...

USB – C HOST INTERFACE

extends the possibilities

SEPARATE POWER SUPPLY

Different voltage ranges
e.g.230VAC possible

4 GIGABIT ETHERNET PORTS

independent or switched

DIE-CAST ZINC

improved heat conductivity

RS485 interface

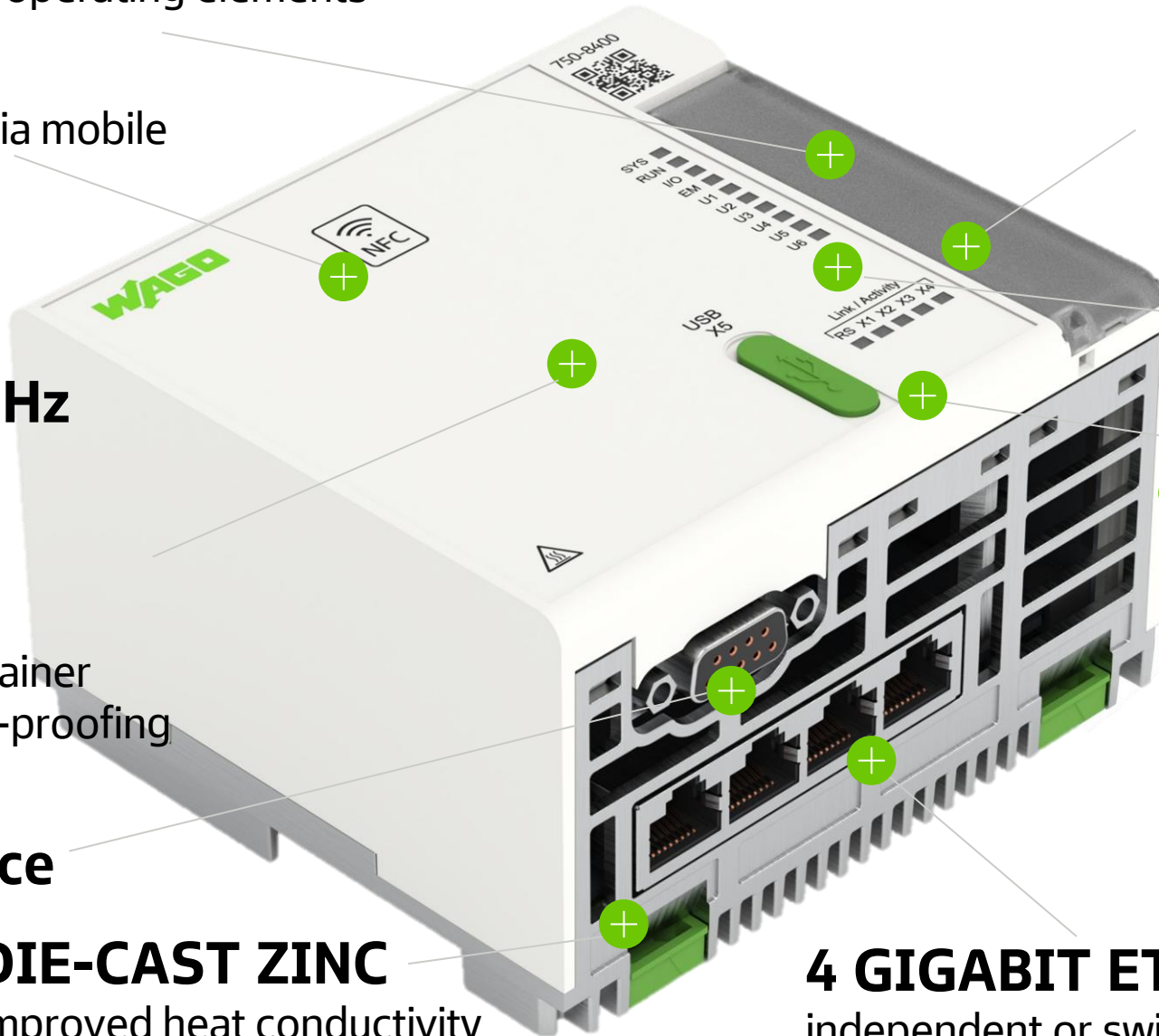
A53 4@1400MHz

4GB RAM

+ 32GB FLASH

+ 1MB Retain

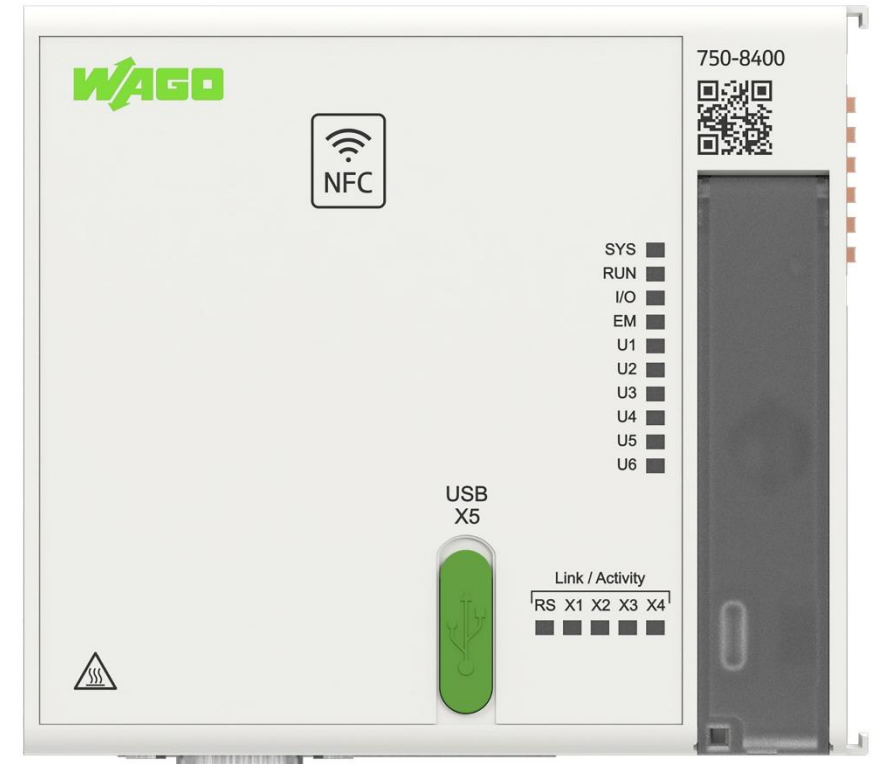
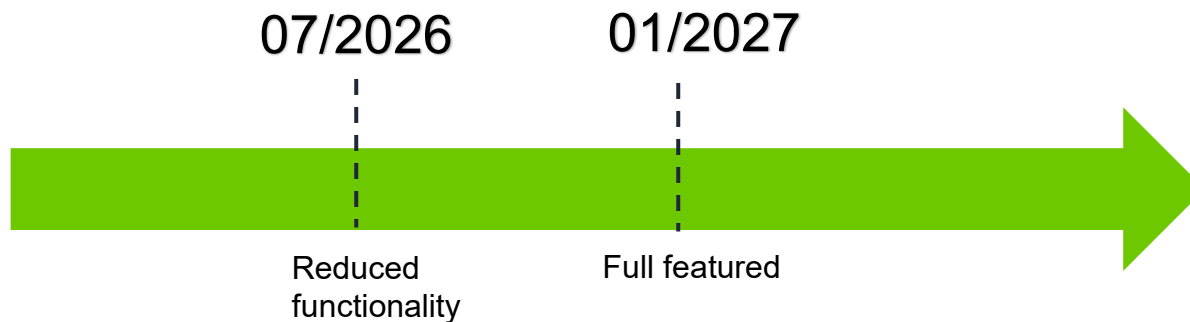
improve speed, container capability and future-proofing



	PFC200 G2 750-8210 	PFC300 750-8302 	PFC400 750-8400 
CPU	Cortex A8 1000MHz 32Bit	Dual Core A53 1400MHz 64Bit	Quad Core A53 1400MHz 64Bit
Memory	RAM 512MB, Flash 8GB	RAM 2GB, Flash 32GB	RAM 4GB, Flash 32GB
Flash size for applications	1,8GB	17GB	17GB
NVRAM	128KB	128KB	1MB
RTC buffered	30 days	30 days	30 days
SD	SD SDHC <=32GB	SD SDXC <=2TB	μSD SDXC <=2TB
Ethernet Interfaces	4x100Base-TX	2x1000Base-T	4x1000Base-T
Interfaces	-	RS485	RS485 + USB-C
Service Interface	Serial – WAGO adapter	USB-C	USB-C
CODESYS V3.5	32MB Program, 128MB Data, 128KB Retain, IIoT Library	32MB Program, 512MB Data, 128KB Retain, Multi Core, IIoT Library	32MB Program, 1024MB Data, 1MB Retain, Standard L, Communication S/M(2048 Tags), IIoT Library
Power supply	24 V DC incl.	24 V DC incl.	750-618 24 V DC
Ambient Temperature	0..55°C, XTR (-40°C – 70°C)	-25°C..+60°C, XTR (-40°C – 70°C)	-25°C..+60°C, (+ 70°C passed)
Housing (WxHxD) / mm	79 x 100 x 72	79 x 100 x 72	122 x 100 x 67

750-8400 PFC400 4ETH RS – Release Plan

- The development is customer driven and subject to a delivery promise
- DNV approval and IEC 62443-4-2 SL2 are mandatory
- Early release with reduced functionalities is required to meet the customer's delivery requirements
- Beta devices for customer Q4/2026
- Release date for firmware with reduced functionality: July 2026
- Release date with full functionality: January 2027



Product Feature Briefing

- Enhanced performance for a future-proof automation platform
- Housing concept with die-cast zinc and plastic
- Best connectivity through 4 Gbit Ethernet ports and RS485 serial interface
- Support of WAGO next gen tooling, Device Manager and Device Sphere
- Docker containerization for even more application possibilities
- IEC62443-4-2 SL2 certification

PFC400	
CPU	Quad Core - Cortex A53 1400MHz
Interfaces	4 x 1000Base-T 1 x RS485 serial interface 1 x USB-C host interface
SD-Card	µSD (SDXC)
Service	USB-C WAGO Device Access
Housing	DIN Rail Mounting (DIN 43880)
Ambient Temperature	-25°C – 60°C

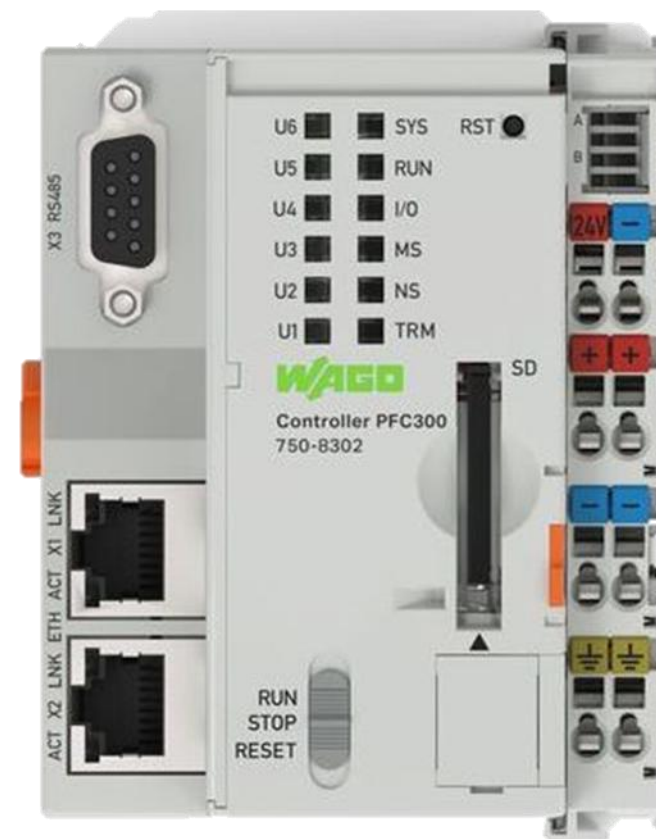


Available
Q1/2027

750-8400: tbd
750-618: tbd



750-8302 PFC300



PFC300

RS485 interface

SD (SDXC)
up to 2 TB

A53 2@1400MHz
2GB RAM

+ 32GB FLASH

+ 128KB Retain

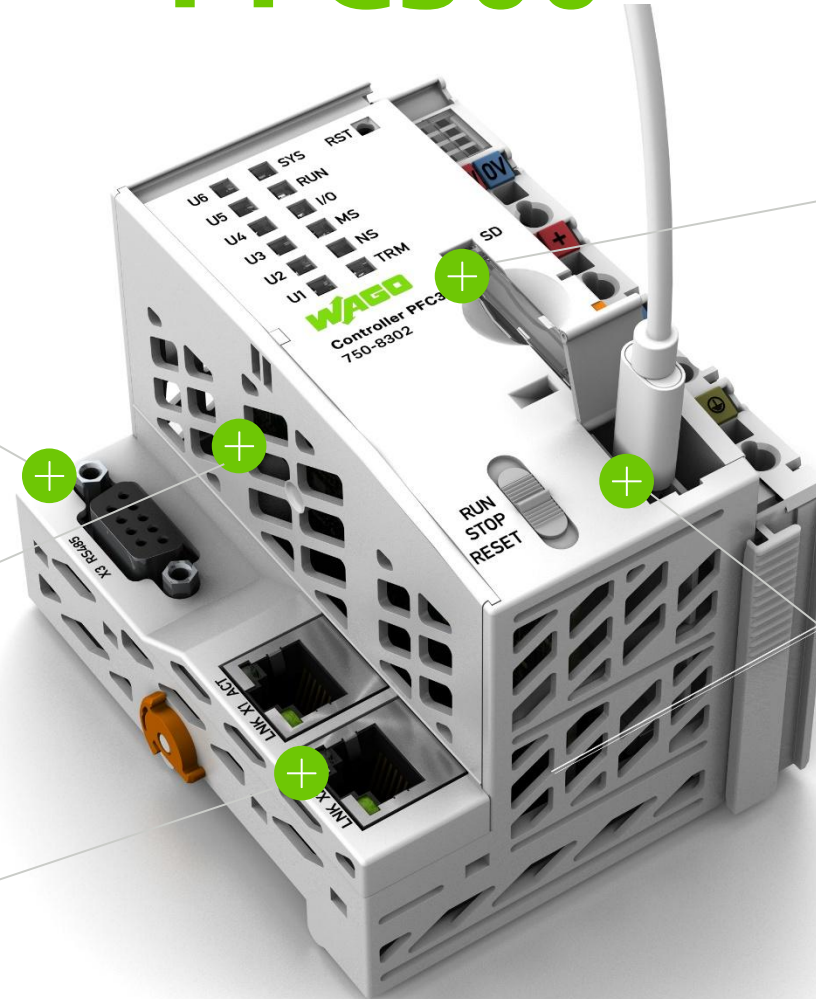
improve speed, container
capability and future-proofing

2 GIGABIT ETHERNET PORTS

independent or switched

**USB-C Service
Interface**

easy comissioning via
browser



PFC300 – The Next Level

- More performance, more memory and state-of-the-art interfaces
- The right controller for sophisticated applications
- Enable the use of resources hungry docker container
- PFC firmware – same features and functionalities
- RS485 with on-board termination
- USB C service interface
- New file system layout with more memory for the user

	PFC300
CPU	Dual Core - Cortex A53 (64bit) 1,4GHz
Main Memory	2 Gbyte DDR4 RAM
Flash	32 Gbyte eMMC Flash / 17 Gbyte home partion
SD Card	SDXC Standard
Ethernet	2 x Gbit Ethernet Interfaces (1000Base-T)
Serial Interface	RS485 Interface with on-board termination
CODESYS 3 Runtime	32 MB Program, 512 MB Data, 128 KB Retain
Ambient Temperature	-25°C – 60°C

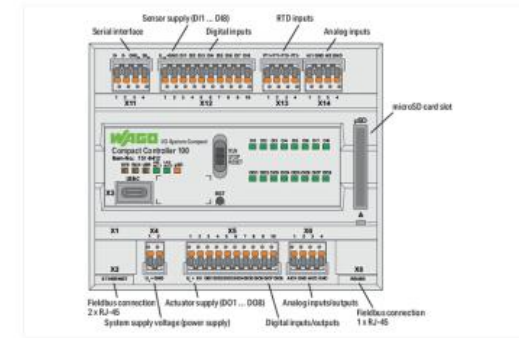


CODESYS Application License Model

Data Sheet | Item Number: 751-9412

Compact Controller 100; 8DI 8DIO 2AI 2AIO 2NI/PT 2RS485; 2 x ETHERNET;
SD; Secure

<https://www.wago.com/751-9412>



Technical data

Communications	Modbus (TCP) Modbus RTU OPC UA Server/Client RS-485 interface MQTT (via IIoT library) SNMP (via IIoT library) Telecontrol protocols, (not part of IEC62443-4-2 certification), requires an additional license
ETHERNET protocols	DHCP DNS HTTPS SSH WDA OAuth2 LDAP IPsec
Visualization	Web-Visu
Operating system	Linux (Yocto distribution) with PREEMPT_RT
CPU	2 x Cortex A7; 650 MHz
Programming languages per IEC 61131-3	Instruction List (IL) Ladder Diagram (LD) Continuous Function Chart (CFC) Structured Text (ST) Sequential Function Chart (SFC)
Programming environment	CODESYS V3.5 CODESYS licenses included: - Control Basic M - Communication S/M 2048 Tags - Visualization S 128 data points - IIoT Libraries
Configuration options	CODESYS V3.5 Web-Based Management WAGO Device Manager
Transmission rate	10/100 Mbit/s
Transmission medium (communication/fieldbus)	Twisted pair S-UTP; 100 Ω; Cat. 5; 100 m maximum cable length
Main memory (RAM)	512 MB

CODESYS V3.5

CODESYS licenses included:

- Control Basic M
- Communication S/M 2048 Tags
- Visualization S 128 data points
- IIoT Libraries

YOUR LICENSE PACKAGE

		CC100		PFC300		PFC400		
								
Fieldbuses*		2 Instances*		4 Instances*		10 Instances*		16 Instances*
Complex Fieldbuses**				1 Instance**		2 Instances**		8 Instances**
I/O Channels	64	128	256	512	1024	4096	8192	16384
Dynamic C-Code				yes	yes	yes	yes	yes
Task Group Assignment						yes	yes	yes
WAGO order no.	2762-2001/0211-1000	2762-2002/0211-1000	2762-2003/0211-1000	2762-2006/0211-1000	2762-2007/0211-1000	2762-2008/0211-1000	2762-2012/0211-1000	2762-2013/0211-1000

* CANopen/Modbus Serial+TCP/1553 ** EtherCAT, Ethernet/IP, PROFINET

Features

RTS Updates (5 years) | Visualization S | Communication S | DataSource Manager

From € 29,00

From € 69,00

From € 89,00

From € 119,00

From € 139,00

From € 199,00

From € 349,00

From € 599,00

VISUALIZATION

				
128 Tags	2048 Tags	4096 Tags	8192 Tags	unlimited
TargetVisu	TargetVisu	TargetVisu	TargetVisu	TargetVisu
WebVisu	WebVisu	WebVisu	WebVisu	WebVisu
Included in the Control Package	€ 44,50	€ 79,00	€ 149,00	€ 249,00

2762-2202/
0211-1000

2762-2203/
0211-1000

2762-2204/
0211-1000

2762-2205/
0211-1000

COMMUNICATION

		
512 Tags	4096 Tags	unlimited
Method calls	Method calls	Method calls
Information models	Information models	Information models
Included in the Control Package	€ 59,00	€ 149,00

2762-2102/
0211-1000

2762-2105/
0211-1000



€29,50

2762-2101/
0215-1000

Upgrade License

Control Basic M -> Standard S:

2762-3024/0211-1000

Standard S -> Standard L:

2762-3088/0211-1000

Communication S/M -> Communication M:

2762-3202/0211-1000

Communication S/M -> Communication XXL:

2762-3205/0211-1000

WAGO
order no.

CODESYS Application License model

Licensing rules

- 128 Visu tags and 512 Symbol variables/OPC UA tags are included
- CODESYS is counting fieldbuses client/server which are configured by the IDE configurator CAN/Modbus/Ethercat/ EtherNet/IP/PROFINET/PROFIBUS
 - EtherNet/IP, EtherCAT or PROFINET needs at least Standard S license
 - WAGO homemade fieldbus libraries like WagoAppModbus, BACnet or telecontrol libraries are not counted
- CODESYS is counting variables which are mapped to the K-Bus or fieldbus and used in the application
 - **WagoSysDynamicIOMapping** is not count
- With CODESYS 3.5 SP22 **one** complex fieldbus device is included in Basic M

I/O Channels

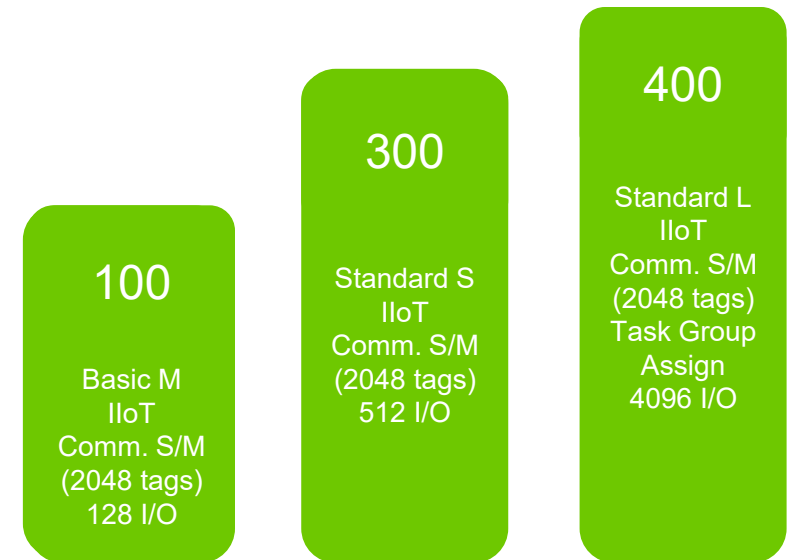
Fieldbus

Visu Tags

Comm. Tags

CODESYS Application License model

- New license model has **no effect** on existing products e.g. PFC100/200/300
- WAGO has 3 performance classes with preinstalled license
 - If the customer needs more, he only must pay the difference
- Planned performance classes are 100, 300, 400
- Performance class 100 = CC100, BC100 G2
- Performance class 300 = PFC300 G2 (successor PFC200)
- Performance class 400 = PFC400, PFe400



WAGO order no.	Description	Price € / CHF	Upgrade		
			Update to	Order no.	Price € / CHF
2762-200 1 /0211-1000	Control Basic S	29.- / 33.80			
2762-200 2 /0211-1000	Control Basic M	69.- / 80.40	Standard S	2762-3024/0211-1000	tbd
2762-200 3 /0211-1000	Control Basic L	89.- / 103.70			
2762-200 6 /0211-1000	Control Standard S	119.- / 138.60	Standard L	2762-3088/0211-1000	tbd
2762-200 7 /0211-1000	Control Standard M	139.- / 161.90			
2762-200 8 /0211-1000	Control Standard L	199.- / 231.80			
2762-201 2 /0211-1000	Control Performance M	349.- / 406.55			
2762-201 3 /0211-1000	Control Performance L	599.- / 697.80			
2762-2 202 /0211-1000	Visualization M, 2048-Tags	44.50 / 51.85			
2762-2 203 /0211-1000	Visualization L, 4096-Tags	79.- / 92.05			
2762-2 204 /0211-1000	Visualization XL, 8192-Tags	149.- / 173.60			
2762-2 205 /0211-1000	Visualization XXL, Unlimited	249.- / 290.05			
2762-2 102 /0211-1000	Communication M, 4096-Tags	59.- / 68.75			
2762-2 105 /0211-1000	Communication XXL, Unlimited	149.- / 173.60			
2762-2 101 /0215-1000	Communication S/M	29.50 / 34.35	M	2762-3202/0211-1000	tbd
			XXL	2762-3205/0211-1000	tbd

CODESYS information about licensing

https://content.helpme-codesys.com/en/CODESYS%20Development%20System/_cds_edt_device_licensed_software_metrics.html

https://content.helpme-codesys.com/en/CODESYS%20Visualization/_vis_licensing.html

https://content.helpme-codesys.com/en/CODESYS%20Communication/_comm_licensing.html

CODESYS Application License model



751-9412

=

100

Basic M
IIoT
Comm.
S/M
(2048 tags)

=

Basic M
- 2x CAN or Modbus
- 128 I/O-Channels

=

Visu S
- 128 Tags

=

IIoT Library

=

Communication S/M
- 2048 Tags

69€

0€

70€

29,50€

168,50€

=



included

CODESYS Application License model



750-831x

=

300

Standard S
IIoT
Comm.
S/M
(2048 tags)

=

Standard S

- 4x CAN or Modbus
- 1 x PROFINET or EtherCAT or EtherNet/IP
- 512 I/O-Channels

=

Visu S

- 128 Tags

=

IIoT Library

=

119€

0€

70€

=



included

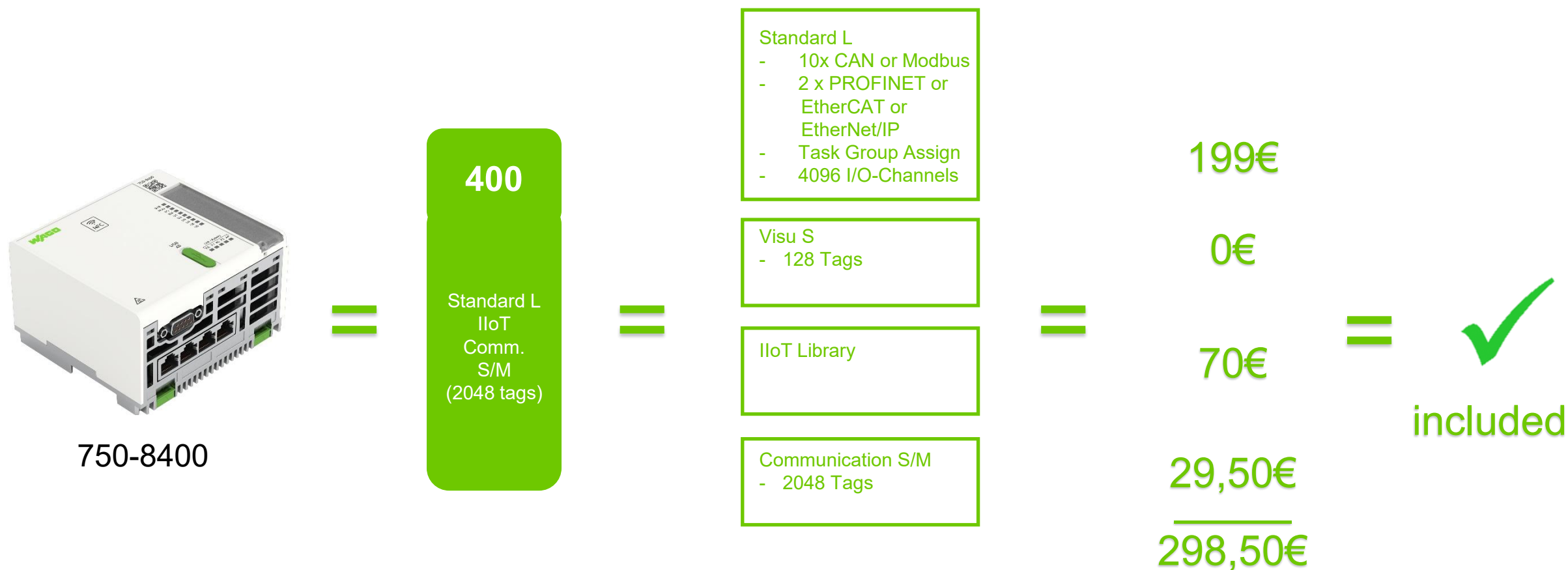
Communication S/M

- 2048 Tags

29,50€

218,50€

CODESYS Application License model



CODESYS Application License model

Case 1: Application needs
EtherCAT master



751-9412

=

100

Basic M
IIoT
Comm. S/M
(2048 tags)

+

EtherCAT

=

Control
Standard S

4 Instances*

1 Instance**

512

yes

-

=

Control
Basic M

2 Instances*

128

119€
-69€

50€



CODESYS Application License model

Case 2: Application needs
2500 OPC UA Tags



751-9412

=

100

Basic M
IIoT
Comm. S/M
(2048 tags)

+

Com. M
4096 Tags

=



-



=

59€
-29,50€

29,50€



CODESYS License Models – Preinstalled License

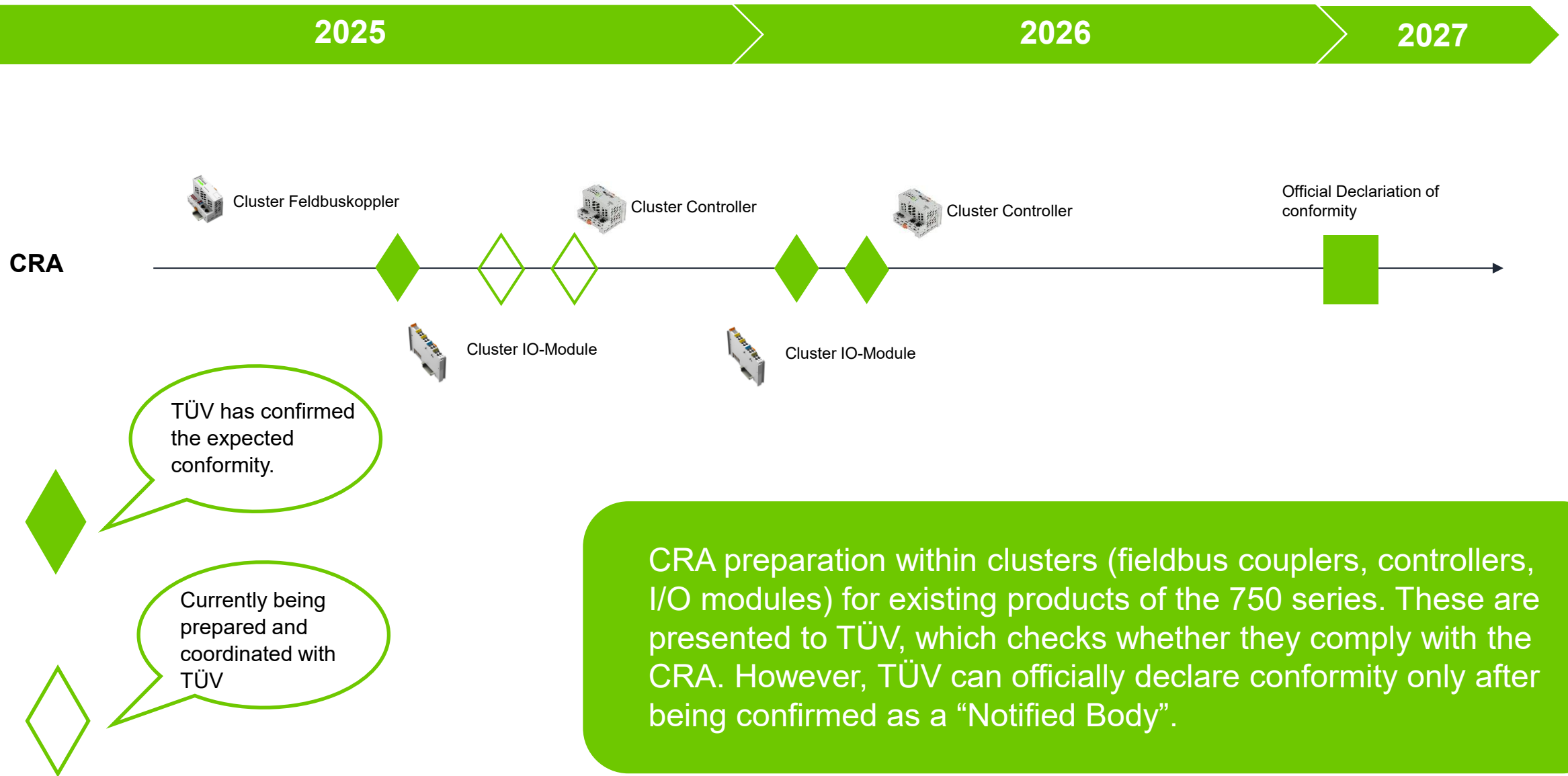
Feature	CC100 PFC100/200/ 300	BC100	Performance class 100	Performance class 300	Performance class 400
Modbus Client/Server	X	X	X	X	X
CAN Open	X	-	X	X	X
OPC UA Client/Server	X	X	2048	2048	2048
OPC UA Pub/Sub	X	X	-	-	-
IIoT-Libraries Cloud/MQTT/Mail/SNMP/SNTP	X	X	X	X	X
EtherCat Master	X	-	-	X	X
EtherNet/IP Scanner/Adapter	X	X	-	X	X
PROFINET Controller/Device	X	-	-	X	X
Task Group Assign	PFC300/TP600	-	-	-	X
I/O Channels	∞	∞	128	512	4096
Visu	∞	∞	128	128	128

CRA & Lifecycle Controller

Portfolio-impacting factors

- **CODESYS will no longer issue CS2.3 licenses as of December 2027**
- **European Cyber Resilience Act regulation starts in December 2027**

Overview CRA-Roadmap



Controller Series 750/751 – CRA rules

CRA (12/2027)

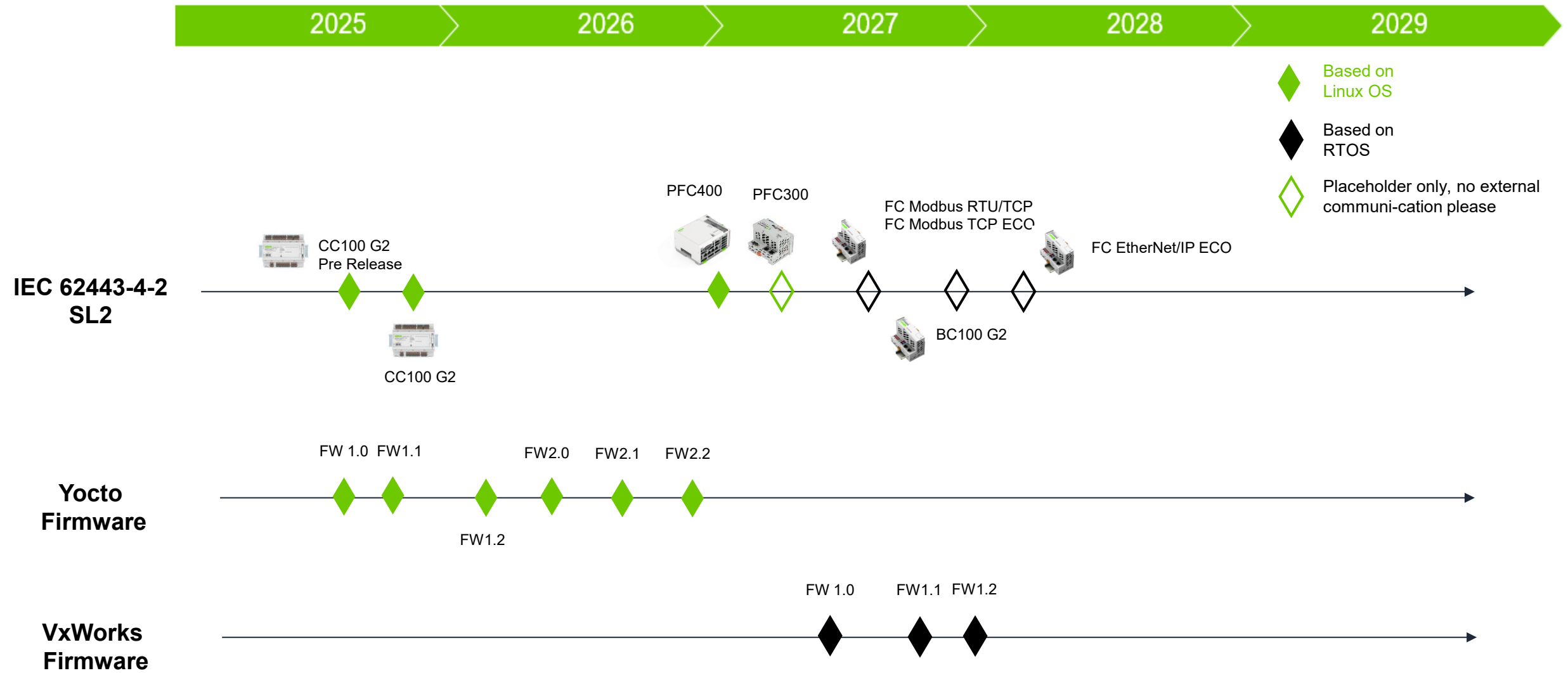
FBC	750-08xx	CODESYS 2.3 / embedded OS	end of delivery	spare part
BC100 G1	750-800x	CODESYS 3.5 / embedded OS		feature freeze
PFC100 G1	750-810x	e!Cockpit / PTXdist	end of delivery	
PFC200 G1	750-820x	CODESYS 2.3 / e!Cockpit / PTXdist	end of delivery	
PFC100 G2	750-811x	CODESYS 3.5 / PTXdist		feature freeze
PFC200 G2	750-821x	CODESYS 3.5 / PTXdist		feature freeze
PFC300 G1	750-830x	CODESYS 3.5 / PTXdist		feature freeze
CC100	751-930x 751-940x	CODESYS 3.5 / PTXdist		feature freeze
	CC100	751-941x	CODESYS 3.5 / Yocto	
	PFC400 PFC300 G2	750-840x 750-831x	CODESYS 3.5 / Yocto	
	BC100 G2	750-801x	CODESYS 3.5 / VxWorks	

CRA compliance for existing products

Spare Part – only replacing **existing** devices

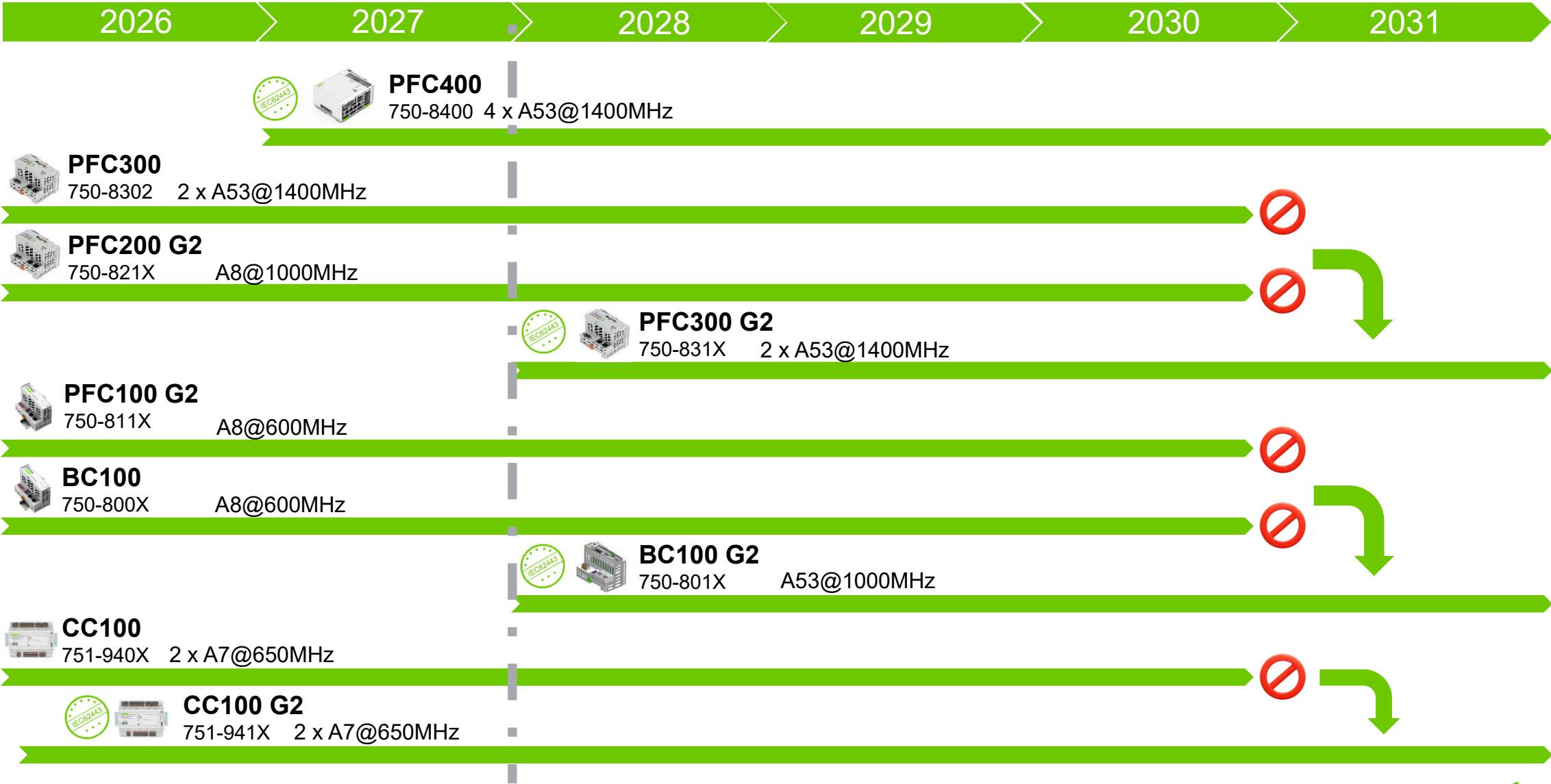
Feature Freeze – buyable without limitations, but only security updates – **no improvements**

Overview IEC62443 Firmware and Devices



Overview Lifecycle Controller

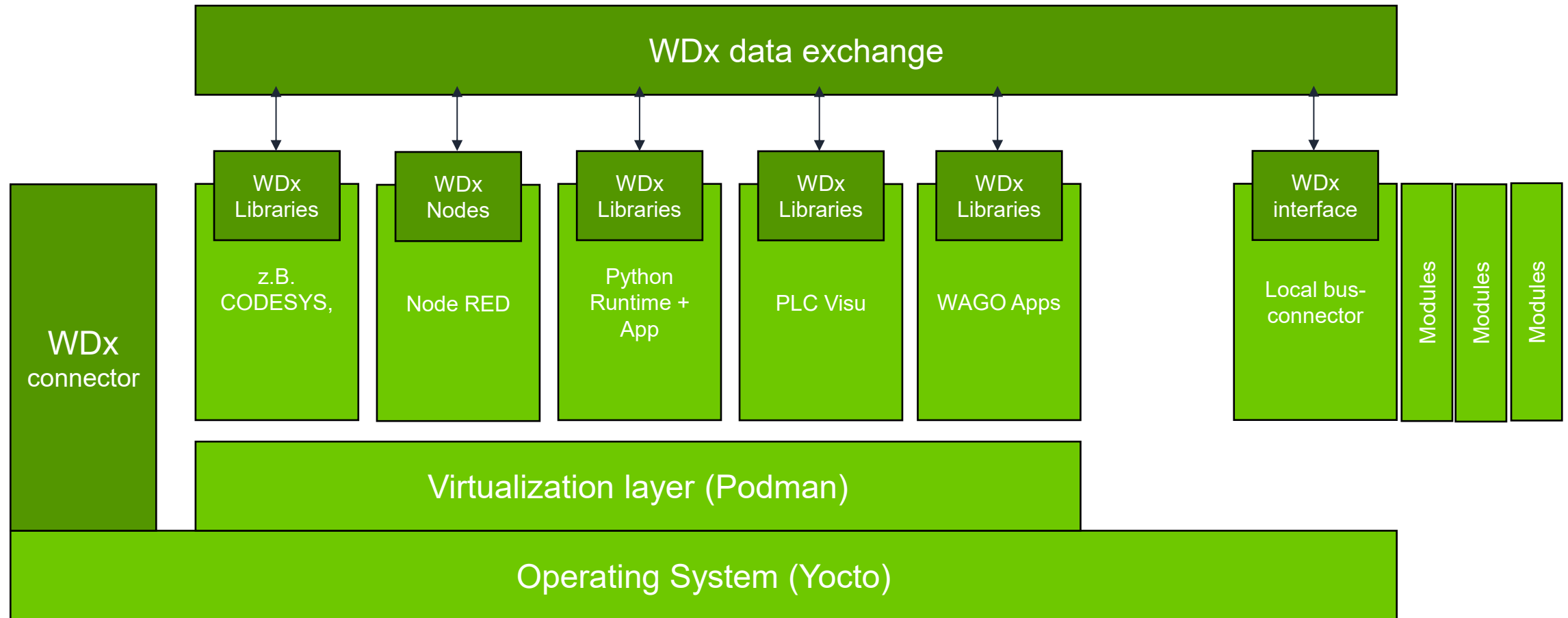
CRA



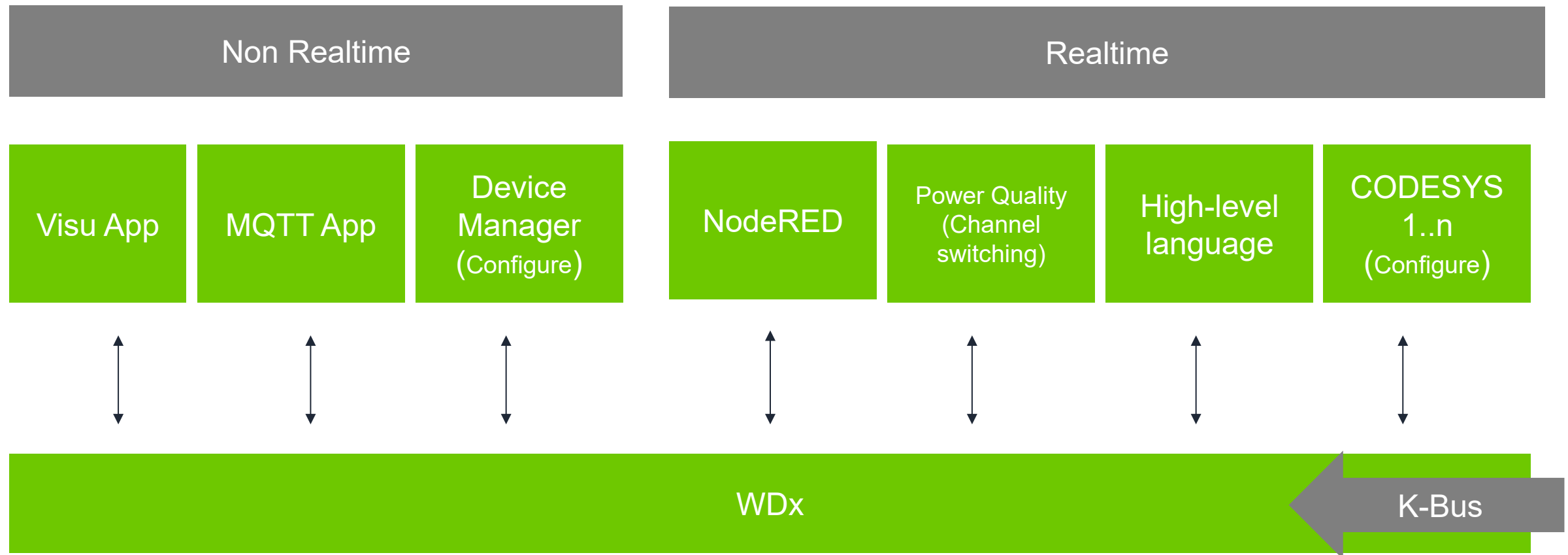
WAGO Device Manager

WAGO Device Sphere

Aufbau des neuen Betriebssystems



Neue Prozessdatenschicht mit Multi-Client-Zugriff



Special tools for special tasks

- Native Parametrization and Configuration:

 - **WAGO Web Based Management**

- Parametrization and Configuration :

 - **WAGO Device Manager**

- Multi-Controller Device management:

 - **WAGO Device Sphere**

- Multi-Controller Project management:

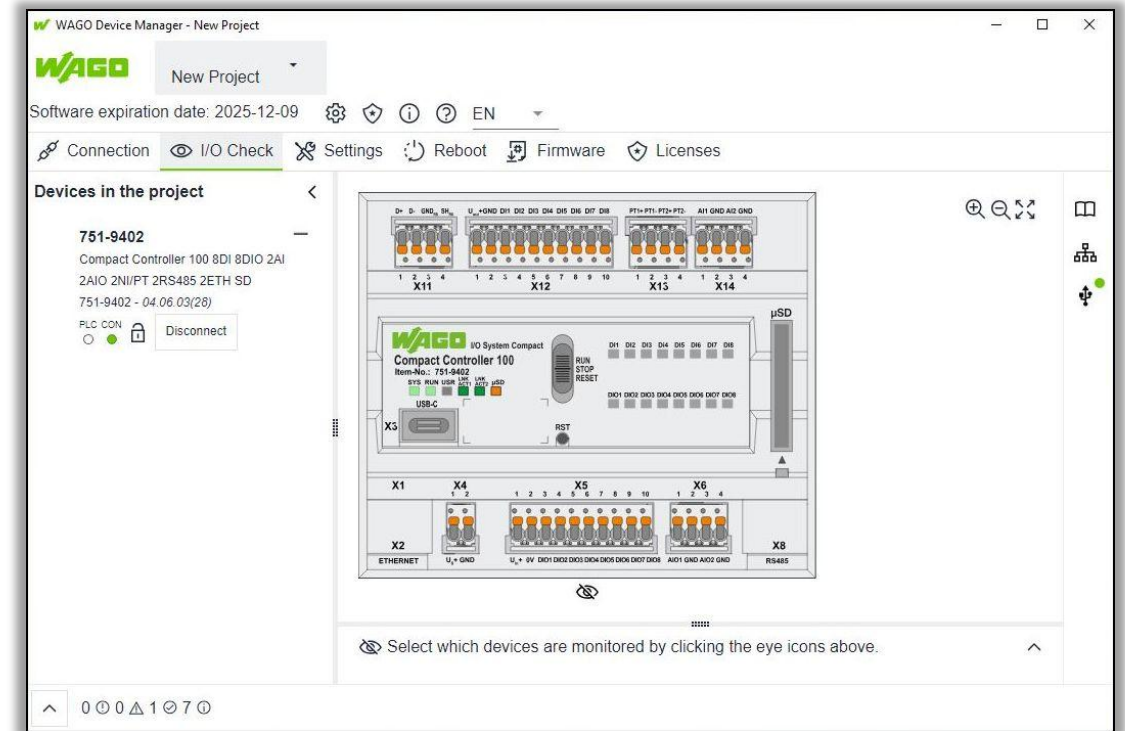
 - **WAGO Solution Builder**

- Programming in IEC61131 languages:

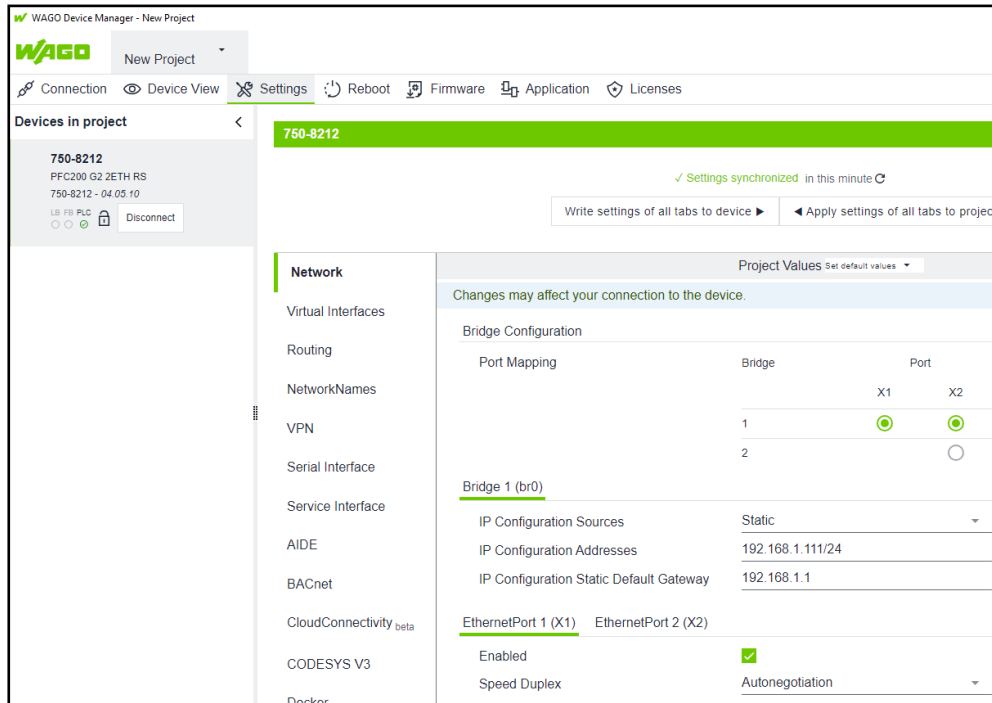
 - **CODESYS**

- Connecting tool functionality

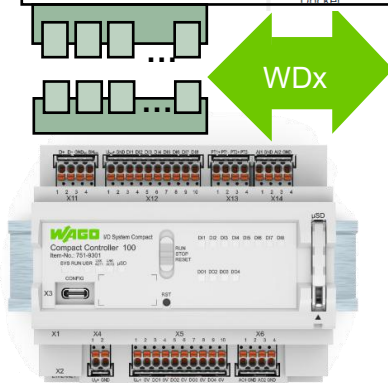
 - Different **Add-ons for CODESYS**



WAGO Device Manager – Main Functionality



- Combines functionality formally known from IO-Check, EthernetSettings and partly WAGOupload:
 - Configuration and Parameterization of single devices
 - Error Analysis
 - Firmware-Update
 - License-Handling
 - Wiring Test (depending on device firmware)
- Offline- and Online configuration with data comparison
- Connection via Ethernet or USB C by using a secure protocol
- Supported Device families in Version 1.3:
 - CC100, PFC200, TP600, EC



Secure
communication

WAGO Device Manager: IO-Check

- Wiring Test Option
- Monitor mode enables watching actual I/O value
 - Raw values
 - Calculated values
- Control mode enables controlling actual IO values
- Graphical representation of device

The screenshot displays the WAGO Device Manager software interface for a project named "my-test-project". The "I/O Check" tab is selected, showing a graphical representation of the device and its I/O status.

Devices in the project:

- 751-9402/000-001
Compact Controller 100 8DI 8DO 2AI 2NI/PT 2RS485 2ETH SD
751-9402/000-001 - 04.06.03(28)
PLC CON Disconnect

Control mode: Control mode

Monitoring active (Latency: < 1s)

1: 751-9402/000-001

AI Channel	AI Value	DI Channel	DI Value	DO Channel	DO Value
X13 AI1 (RTD)	850 °C	X12 DI1	ON	X5 DO1	ON
X13 AI2 (RTD)	850 °C	X12 DI2	ON	X5 DO2	ON
X14 AI1	10 V	X12 DI3	OFF	X5 DO3	OFF
X14 AI2	0.007 V	X12 DI4	OFF	X5 DO4	OFF
		X12 DI5	OFF	X5 DO5	OFF
		X12 DI6	OFF	X5 DO6	OFF
		X12 DI7	OFF		

WAGO Device Manager: Network Settings

■ Configuration of Bridge

■ Switched

■ Separated

■ IP settings

■ Static

■ DHCP

■ Gateway settings

■ ...

The screenshot displays the WAGO Device Manager interface for a project named 'my-test-project'. The left sidebar lists various configuration categories, with 'Network' selected. The main panel shows the 'Settings for 751-9402/000-001' device. A warning message indicates that device values differ from project values. The 'Bridge Configuration' section is active, showing a table for port mapping and configuration for Bridge 1 (br0) and Bridge 2 (br1). The 'EthernetPort 1 (X1)' configuration is shown with 'Enabled' checked, 'Speed Duplex' set to 'Autonegotiation', and 'MAC Learning' checked. The 'EthernetPort 2 (X2)' configuration is also shown with 'Enabled' checked, 'Speed Duplex' set to 'Autonegotiation', and 'MAC Learning' checked.

Port Mapping	Bridge	Port X1	Port X2	Bridge	Port X1	Port X2
1		☒	☒	1	☐	☐
2		☐	☐	2	☐	☐

Bridge 1 (br0)	Bridge 2 (br1)
IP Configuration Sources	DHCP
IP Configuration Addresses	0.0.0.0/0
IP Configuration Static Default Gateway	***
EthernetPort 1 (X1)	EthernetPort 2 (X2)
Enabled	☒
Speed Duplex	Autonegotiation
MAC Learning	☒

WAGO Device Manager: IO Configuration

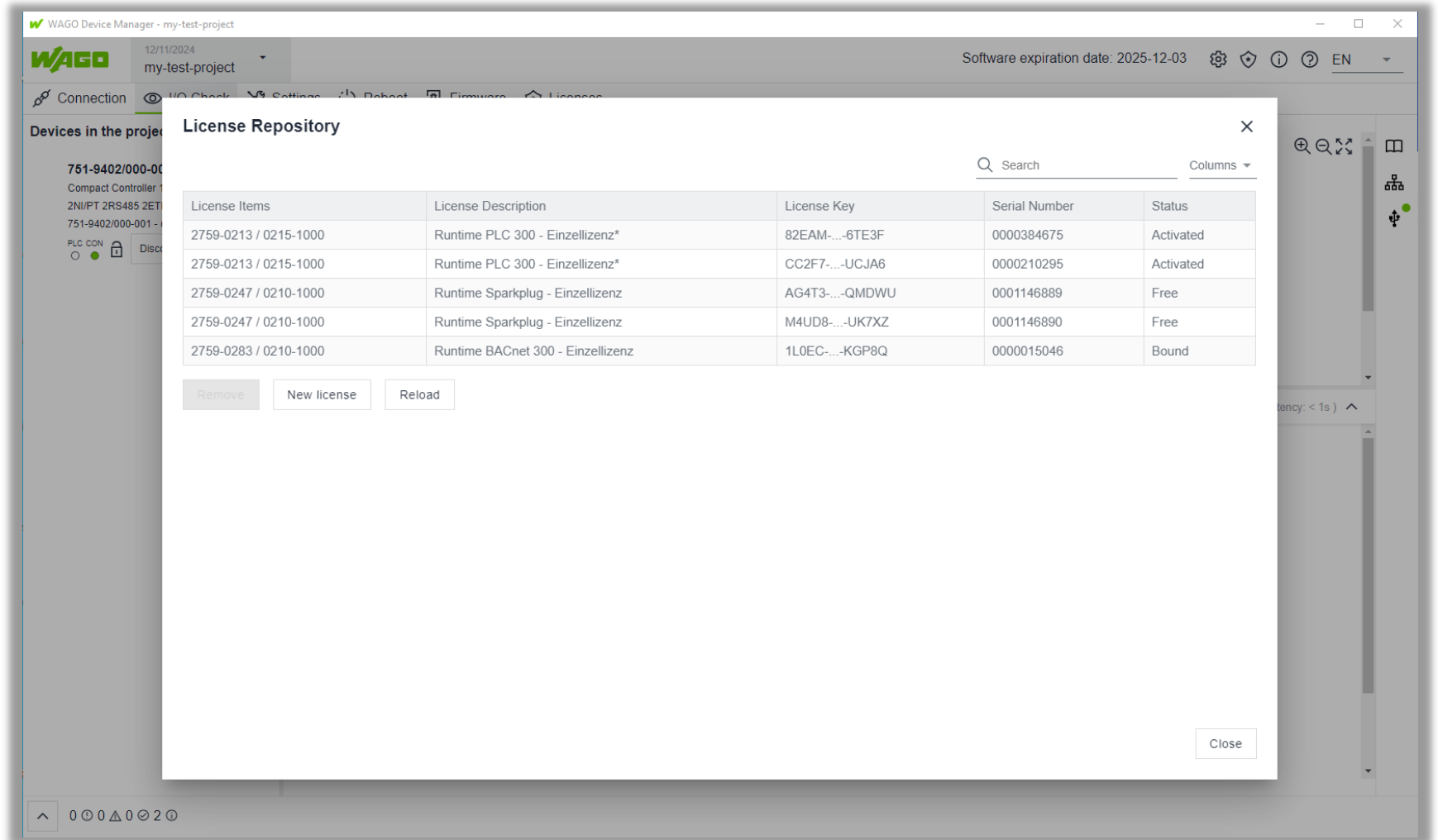
- Configuration of flexible I/O clamps
- Example DIO:
 - Configuration as digital input
 - Configuration as digital output
- Example AI:
 - Configuration of sensor type

The screenshot displays the WAGO Device Manager interface for a project named 'my-test-project'. The left sidebar lists various configuration categories, with 'I/O-Channels #' selected. The main area shows the 'Settings for 751-9402/000-001' configuration page. A notification at the top indicates that device values differ from project values. Below this, there are buttons to 'Write settings of all tabs to device' and 'Apply settings of all tabs to project'. The 'Settings' section is divided into 'Project Values' and 'Device Values'. The 'I/O-Channels #' section is further divided into 'Channel Selection X12', 'Channel Selection X13', 'Channel Selection X14', and 'Channel Selection X5'. The 'Channel Selection X5' tab is active, showing a table of pins and their configuration as DI (Digital Input) or DO (Digital Output). The table has columns for Pins, DI, and DO. The pins listed are X5.DIO1 through X5.DIO8. The DI and DO columns contain radio buttons, with some buttons being checked (green) and others unchecked (grey). A 'Channels' section is also visible, showing 'X13 AI1 (RTD)', 'X13 AI2 (RTD)', 'X14 AI1', and 'X14 AI2'. The 'Measurement Mode' for X13 AI1 and X13 AI2 is set to 'Pt1000 [EN 60751]' with a range of '-200 - 850 °C (Resolution: 0.1°C)'. The 'X14 AI1' and 'X14 AI2' fields are empty.

Pins	DI	DO	Pins	DI	DO
X5.DIO1	☒	☐	X5.DIO1	☐	☒
X5.DIO2	☒	☐	X5.DIO2	☐	☒
X5.DIO3	☐	☒	X5.DIO3	☐	☒
X5.DIO4	☐	☒	X5.DIO4	☐	☒
X5.DIO5	☐	☒	X5.DIO5	☐	☒
X5.DIO6	☐	☒	X5.DIO6	☐	☒
X5.DIO7	☐	☒	X5.DIO7	☐	☒
X5.DIO8	☐	☒	X5.DIO8	☐	☒

WAGO Device Manager: License Handling

- Managing of licenses for Controllers
 - See actual state
 - Add licenses
 - Delete license



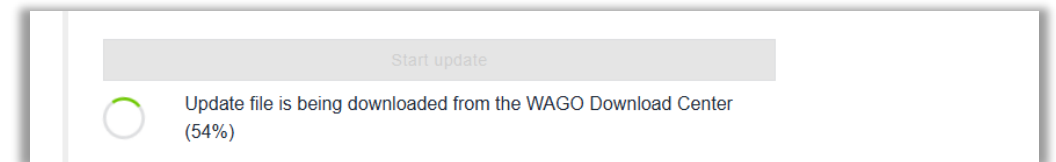
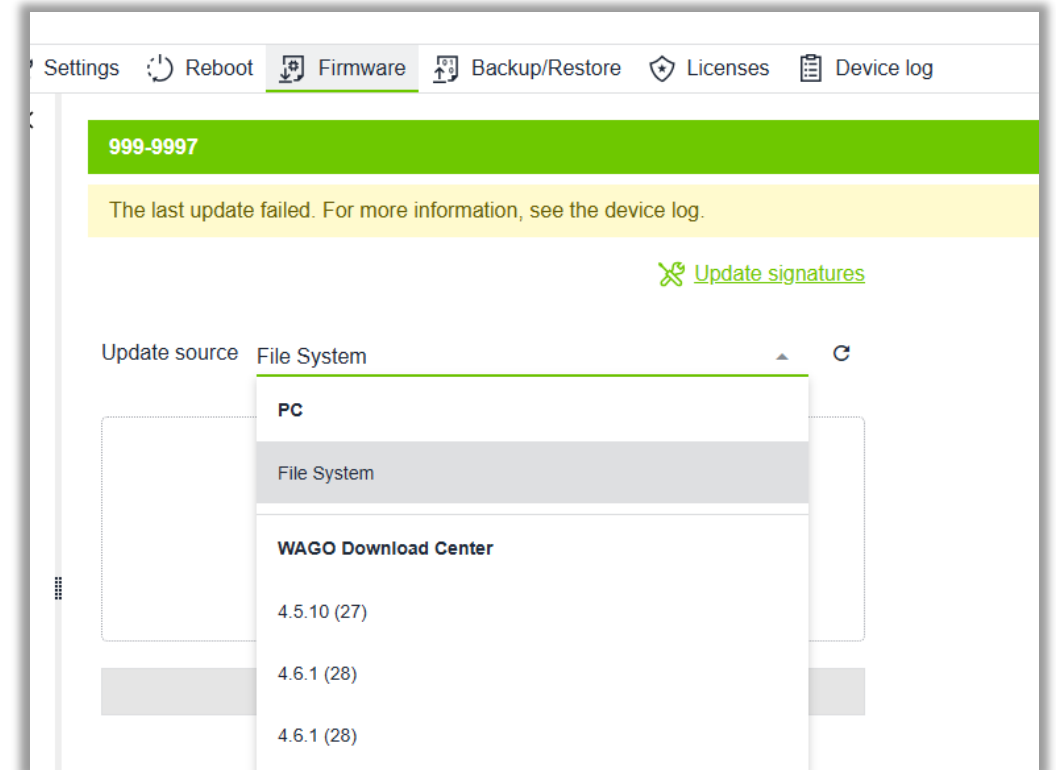
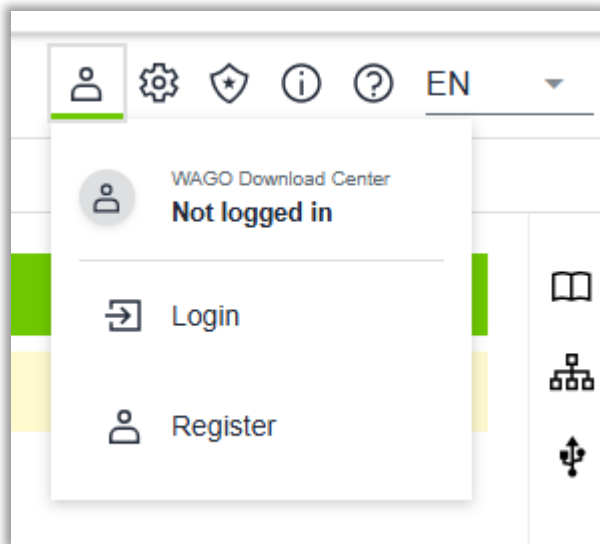
The screenshot shows the WAGO Device Manager interface with a 'License Repository' dialog box open. The dialog box contains a table with the following data:

License Items	License Description	License Key	Serial Number	Status
2759-0213 / 0215-1000	Runtime PLC 300 - Einzellizenz*	82EAM-...-6TE3F	0000384675	Activated
2759-0213 / 0215-1000	Runtime PLC 300 - Einzellizenz*	CC2F7-...-UCJA6	0000210295	Activated
2759-0247 / 0210-1000	Runtime Sparkplug - Einzellizenz	AG4T3-...-QMDWU	0001146889	Free
2759-0247 / 0210-1000	Runtime Sparkplug - Einzellizenz	M4UD8-...-UK7XZ	0001146890	Free
2759-0283 / 0210-1000	Runtime BACnet 300 - Einzellizenz	1L0EC-...-KGP8Q	0000015046	Bound

Below the table are three buttons: 'Remove', 'New license', and 'Reload'. A 'Close' button is located at the bottom right of the dialog box. The background shows the WAGO Device Manager interface with a sidebar on the left and a top bar with a 'Software expiration date: 2025-12-03'.

WAGO Device Manager: Online FW-Upgrade

- Direct access to Download Center
- Allows firmware upgrades of devices to newest versions from the moment of availability



WAGO Device Manager: License

- Device Manager may be tested free
List price (single license): 1of charge
for 30 days.
- After that for using Device Manager a
license is needed:
2759-0104/1111-1000
- 116.00CHF

The screenshot shows the WAGO website interface for the WAGO Device Manager software. The page is titled 'WAGO Device Manager' and includes a 'Description' section, a 'Technical data' table, and a 'Bundle download' section.

WAGO Device Manager
Version 1.0.0
Release Date 2024-12-16
File size : 236 MB

Bundle download

[Download](#)
[Download list](#)

Checksum [▼](#)

Description

WAGO Device Manager is software for configuring and parameterizing single WAGO products. It supports both commissioning and the entire product life cycle for backup, fault analysis and system status determination.

The software is installed locally on a PC or laptop.

The following functions are supported:

- Configuration and parameterization
 - Configuring hardware components is the essential task of WAGO Device Manager.
- Parameter upload/download
 - Parameters can be received by uploading devices and transferred to devices by download.
- Online and offline parameterization
 - The parameterization can first be prepared offline and transferred to the devices at a later time.
- Firmware update/downgrade
 - The firmware of one or more devices can be read and changed via *.wup file.
- License management
 - Some device functions are protected by license mechanisms. Licensing of these functions can be performed and managed in WAGO Device Manager.

Online Documentation: https://techdocs.wago.com/Software/Device_Manager

Technical data

Version	File size	Release Date	Release notes	Dependencies
WAGO Device Manager 1.0.0	236 MB	2024-12-16	Release notes	

Available from: <https://downloadcenter.wago.com/wago-device-manager>

What is it good for?

The WAGO Device Sphere

Device management for WAGO Controllers offering...

- Secure access
- Single point of contact
- Offline configuration by design (digital twin)
- Open for other device integration
- Fast retrieval of the latest device status
- Single CPU load on the device for multiple clients

Target market: Potentially any customer...

- who has a large number of controllers in use
- who wants to reach all controllers via one access point (single point of contact)
- who wants to be put the controllers into operation with minimal effort
- who doesn't want to install software tools to use controllers
- who wants to integrate established container management systems (Docker, Portainer, ...)

It is like the WAGO Device Manager – for many devices.
Both make use of WDA (WAGO Device Access).

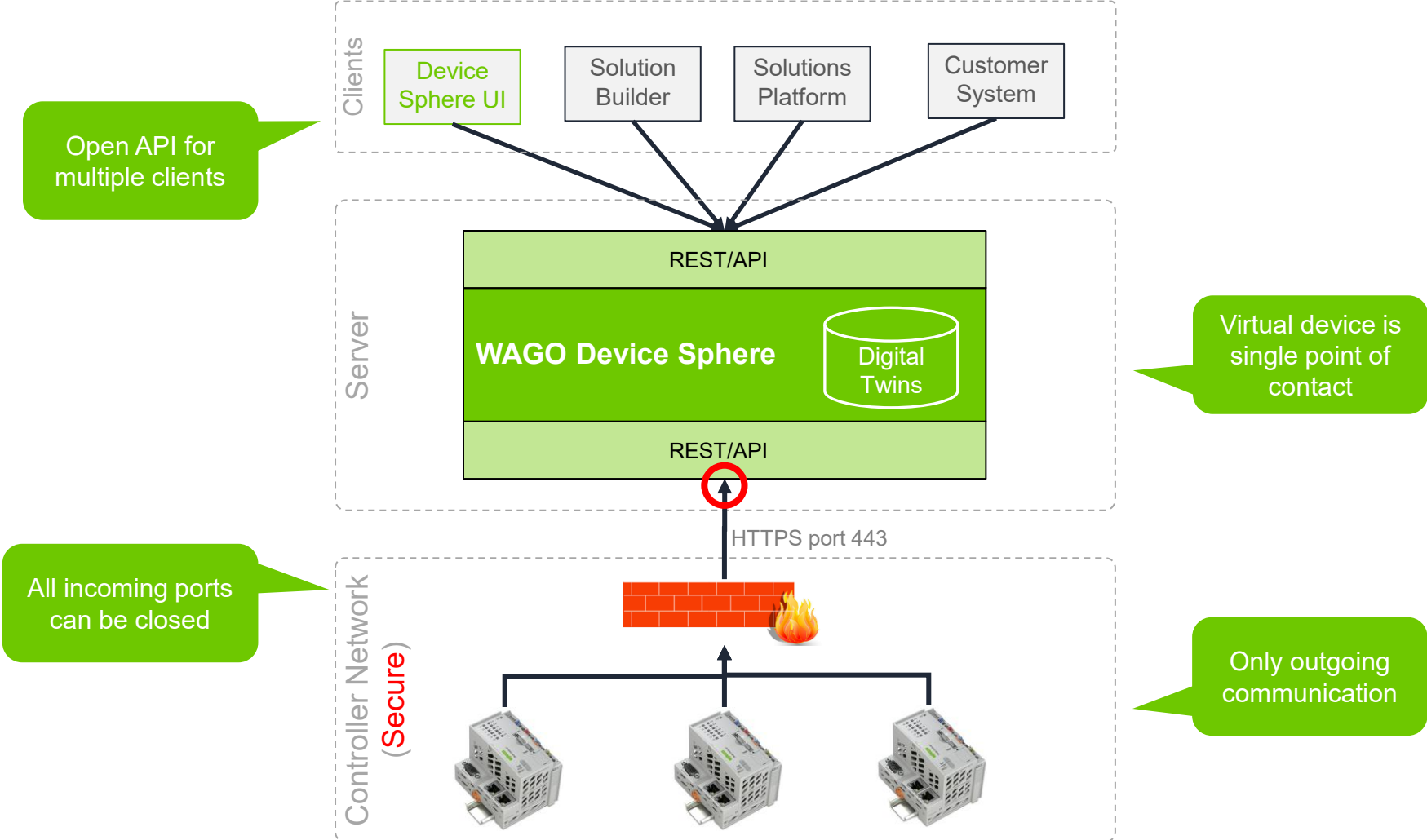


WAGO Device Sphere : Main Use Cases

-
- **Easy commissioning** Put brand-new controllers into operation directly from the original packaging without having to pre-configure them. The controllers receive their software status and configuration directly from the Device Sphere.
-
- **Secure communication** Access to and communication with the controllers is secured against unauthorized access. The communication participants are mutually authenticated and authorized. **No incoming ports needed!**
-
- **Status monitoring** Monitor the status of all controllers and be informed about changes or error situations - via push notification (Email).
-
- **Asset management** Manage all controllers centrally and decentral at any time - from a PC, tablet or smartphone.
-
- **Software update** Roll out updates to controllers that are distributed worldwide in a centrally controlled manner.
-



Outbound Communication

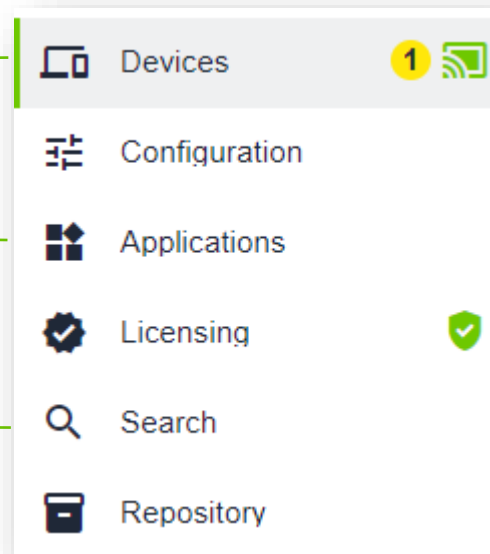


Main Menu / Functions

Device monitoring and synchronization at one point

Add applications easily and use them multiple times

Full-text search in all content



Configure all devices with bulk changes

Licensing all controllers at one place

Firmware and IPK management

Enable pairing mode to connect new devices

The screenshot shows the WAGO Device Sphere interface. On the left is a sidebar with navigation options: Devices, Configuration, Applications, Licensing, Search, and Repository. The main area is divided into 'Managed Devices' and 'New Devices (1)'. The 'New Devices' section contains a table with the following data:

Hostname	Device address	MAC address	Serial number	State	Firmware version	Item number	
CC100V1	3.3.3.14	00:30:DE:49:44...	37SUN31564010260470190+000000000	4426	Requested	04.06.03(28)	0751-9301

A green callout points to the 'Get devices' button and the table, stating: "Pairing enabled: Wait for new devices to connect in this view". Another green callout points to the Bluetooth settings on a smartphone, stating: "Like in Bluetooth pairing".

WAGO Device Sphere Version: 1.0.0

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Option: connection to your own server

1. Download config file from controller /etc/wds/wds.cfg
2. Modify the configuration file, enter your own server under 'servers'
3. Copy the wds.cfg file to an SD card.
4. Insert the SD card into the controller to be commissioned.

When the controller starts up, it first attempts to register on your own server.



Connect new controller to the network



- Connect network
- Connect power
- Continue in WAGO Device Sphere...



For controller already in use

WAGO

Information Configuration Security Diagnostic

Reboot Logout

Networking

Clock

Administration

Package Server

Mass Storage

Software Uploads

Ports and Services

SNMP

Browser Settings

Commissioning

Docker

Commissioning Settings

Deactivating the Commissioning Service will reset its configuration and unlink any active connection to a server.

Commissioning Service

Enabled ☐

State Inactive

Server -

Submit

Activate commissioning

Reboot controller or...

Is enabled by factory default ... to auto-connect when unpacked

Accept or reject a device

The screenshot displays the WAGO Device Sphere interface. On the left is a sidebar with navigation options: Devices (1), Configuration, Applications, Licensing, Search, and Repository. The main area is divided into 'Managed Devices' and 'New Devices (1)'. The 'New Devices (1)' section contains a table with the following data:

Hostname	Device address	MAC address	Serial number	State	Firmware version	Item number
CC100V1	3.3.3.14	00:30:DE:49:44...	37SUN31564010260470190+0000000002344426	Requested	04.06.03(28)	0751-9301

A context menu is open over the first row of the table, showing the following options:

- Accept device (Native mode)
- Accept device (Docker mode)
- Accept device (Portainer mode)
- Reject device

Two green callout boxes provide additional information:

- Accept new device in one of the available modes
- Docker and Portainer can be configured

The footer of the interface includes the text: WAGO Device Sphere Version: 1.0.0, Terms of Use, Release notes, Free and Open-Source-Software, User manual, REST API, and © 2025 WAGO.

Add new devices to managed devices

The screenshot shows the WAGO Device Sphere interface. On the left is a sidebar with navigation options: Devices (highlighted with a yellow badge), Configuration, Applications, Licensing, Search, and Repository. The main area is divided into two panels: 'Managed Devices' and 'New Devices (1)'. The 'Managed Devices' panel shows a search bar and a list of devices including PFC200-11, PFC200-12, PFC200V3-250-x1, PFC100cdr, Demo 1: Tem..., and TP600. The 'New Devices (1)' panel shows a table with one device, CC100V1, which is in a 'Connected' state. A green callout bubble points to the '+' icon in the 'New Devices' table, with the text 'Click (+) or drag&drop to tree structure'.

Hostname	Device address	MAC address	Serial number	State	Firmware version	Item number
CC100V1	3.3.3.14	00:30:DE:49:44...	37SUN31564010260470190+0000000002344426	Connected	04.06.03(28)	0751-9301

Click (+) or drag&drop to tree structure

Device / Asset Management

WAGO

Managed Devices (2)

New Devices

Synchronize

2 selected

Search...

TP600

PFC200-11

CC100V1

PFC200-12

PFC200V3-250-x1

WP400-636F40

PFC100cdr

	Synchronization state	Oper... state	LED state	Hostname	Status reported at	Device address	MAC address	Controller item number	Controller firmware version
☐			SYS RUN IO	PFC200-11	2025-02-28 13:59:03	3.3.3.11	00:30:DE:60:C2:BD	0750-8212/0000-0100	04.06.01(28)
☐			SYS RUN IO	PFC200-12	2025-02-28 14:02:07	3.3.3.12	00:30:DE:46:30:B8	0750-8212/0000-0100	04.06.01(28)
☐			SYS RUN U1	CC100-494448	2025-02-28 13:46:34	3.3.3.14	00:30:DE:49:44:48	0751-9301	04.06.03(28)
☒			SYS H11 H12	TP600	2025-02-28 14:00:33	3.3.3.15	00:30:DE:44:7E:3F	0762-4301/8000-0002	04.06.01(28)
☒			SYS RUN IO	PFC100cdr	2025-02-28 14:00:39	3.3.3.21	00:30:DE:66:E0:83	0750-8112	04.06.01(28)
☐			SYS RUN IO	PFC200-SG250	2025-02-28 14:01:03	192.168.2.250	00:30:DE:46:94:66	0750-8212	04.06.01(28)
☐			SYS	WP400-SG13	2025-02-28 13:46:34	192.168.3.13	00:30:DE:63:6F:40	0762-3403	04.06.03(28)

WAGO Device Sphere Version: 1.0.0

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...and structured along
your organization

All devices can be managed,
filtered and organized in a
customizable table

Notifications by Email

The screenshot displays the WAGO Device Sphere web interface. On the left is a navigation sidebar with options: Devices (1), Configuration, Applications, Licensing, Search, and Repository. The main area is titled 'Managed Devices' and shows a table with one device selected. A green callout bubble points to the table with the text 'Optionally receive Email notifications'. An email notification overlay is shown on the right, titled 'Enrollment status has changed to Accepted.', with details about the device and its status change.

Managed Devices

Hostname	Device address	MAC address	Serial number	State	Firmware version	Item number
CC100V1	3.3.3.14	00:30:DE:49:44:...	37SUN31564010260470190+0000000002344426	Connected	04.06.03(28)	0751-9301

New Devices (1)

Get devices

Search...

1 selected

Optionally receive Email notifications

Enrollment status has changed to Accepted.

WAGO Service (wds-service@mm-software.com) To: Christian Dannegger

Enrollment status has changed to Accepted.

This is a notification from the WAGO Device Sphere subscription service. You are configured to be notified by Email.

Type: EnrollmentStatusChangeNotification

Date: 03.03.2025 **Time:** 17:52

Summary:

Enrollment status for device with DeviceId 37SUN31564010260470190+0000000002344426 has changed to Accepted.

Details:

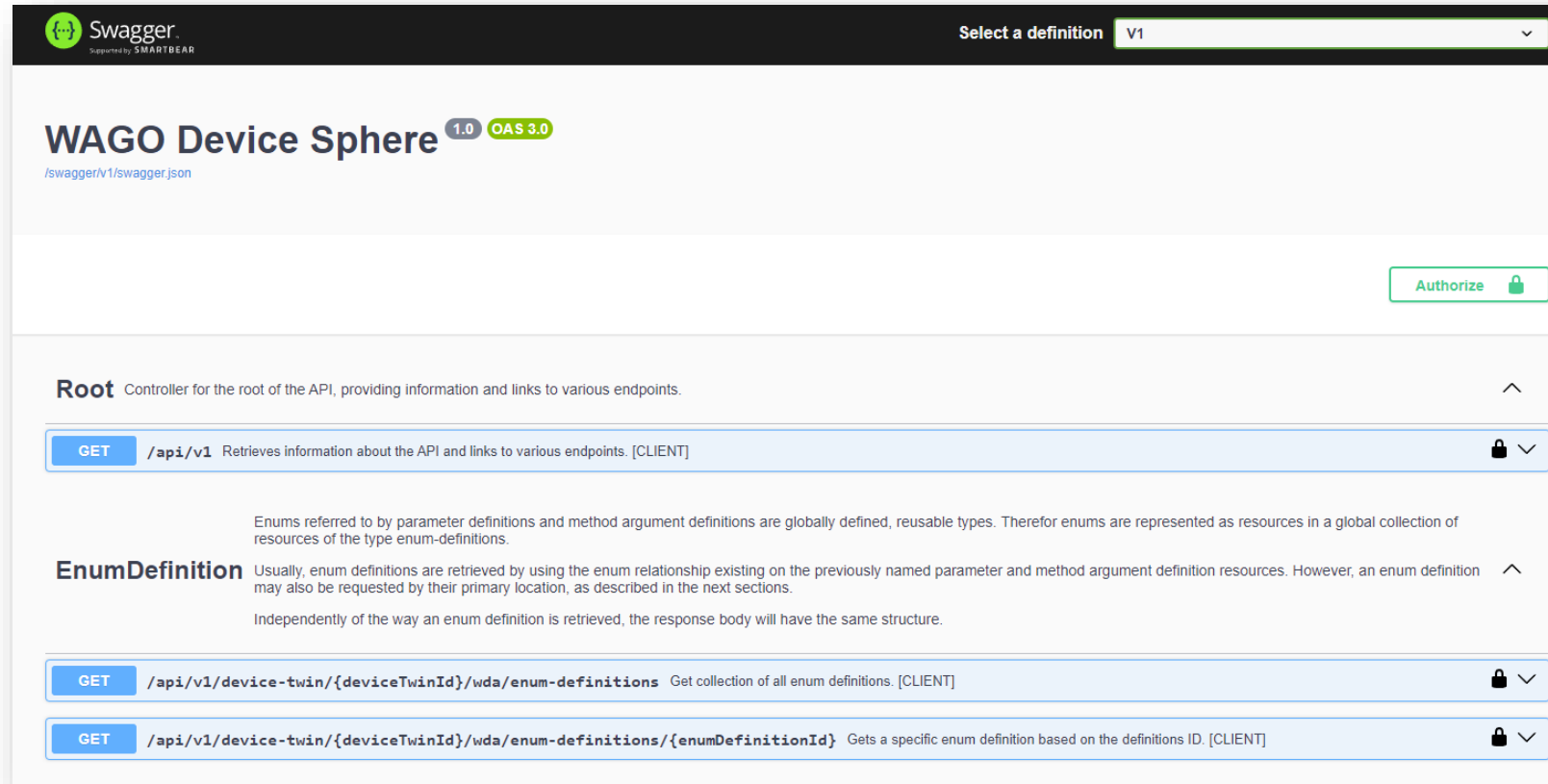
```
{
  "id": "309576e7-54b6-4f58-aa49-2d7599989926",
  "status": 3,
  "deviceId": "37SUN31564010260470190+0000000002344426",
  "ipAddress": "3.3.3.14",
  "deviceType": "ptxdist",
  "timeCreated": "2025-03-03T16:51:51.544Z",
  "timeUpdated": "2025-03-03T16:52:05.246Z",
  "operationMode": "NativeAgent",
  "deviceIdentInfos": {
    "bacnetId": "",
    "firmwareVersion": "04.06.03(28)",
    "hostname": "CC100V1",
    "macAddress": "00:30:de:49:44:48",
    "orderNumber": "0751-9301",
    "uii": "37SUN31564010260470190+0000000002344426"
  }
}
```

WAGO Device Sphere Version: 1.0.0

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API – Swagger (/api/doc)



The image shows a Swagger UI interface for the WAGO Device Sphere API. At the top, there's a Swagger logo and a "Select a definition" dropdown menu set to "V1". Below this, the title "WAGO Device Sphere" is displayed with version "1.0" and "OAS 3.0" tags. A link to the swagger.json file is provided. An "Authorize" button is visible. The main content area lists API endpoints. The first endpoint is the "Root" controller. Below it, a GET endpoint is shown for retrieving API information. A description for "EnumDefinition" follows, explaining that enums are globally defined and reusable. Below this, two more GET endpoints are listed: one for getting a collection of all enum definitions and another for getting a specific enum definition by ID.

Swagger

Select a definition V1

WAGO Device Sphere 1.0 OAS 3.0

/swagger/v1/swagger.json

Authorize

Root Controller for the root of the API, providing information and links to various endpoints.

GET /api/v1 Retrieves information about the API and links to various endpoints. [CLIENT]

Enums referred to by parameter definitions and method argument definitions are globally defined, reusable types. Therefor enums are represented as resources in a global collection of resources of the type enum-definitions.

EnumDefinition Usually, enum definitions are retrieved by using the enum relationship existing on the previously named parameter and method argument definition resources. However, an enum definition may also be requested by their primary location, as described in the next sections.

Independently of the way an enum definition is retrieved, the response body will have the same structure.

GET /api/v1/device-twin/{deviceTwinId}/wda/enum-definitions Get collection of all enum definitions. [CLIENT]

GET /api/v1/device-twin/{deviceTwinId}/wda/enum-definitions/{enumDefinitionId} Gets a specific enum definition based on the definitions ID. [CLIENT]

POST /api/v1/device-twin/subscription/email Adds an email subscription for enrollment status change notification. [CLIENT]

Advantages: **secure** and **efficient**



For all your controllers WAGO Device Sphere provides:

- Secure communication (no incoming ports!)
- Easy commissioning
- Status monitoring
- Asset management
- Software update
- Single point of contact for all clients to all devices
- Offline configuration by design
- Developed according to CRA - IEC 62443

Advantages: easy

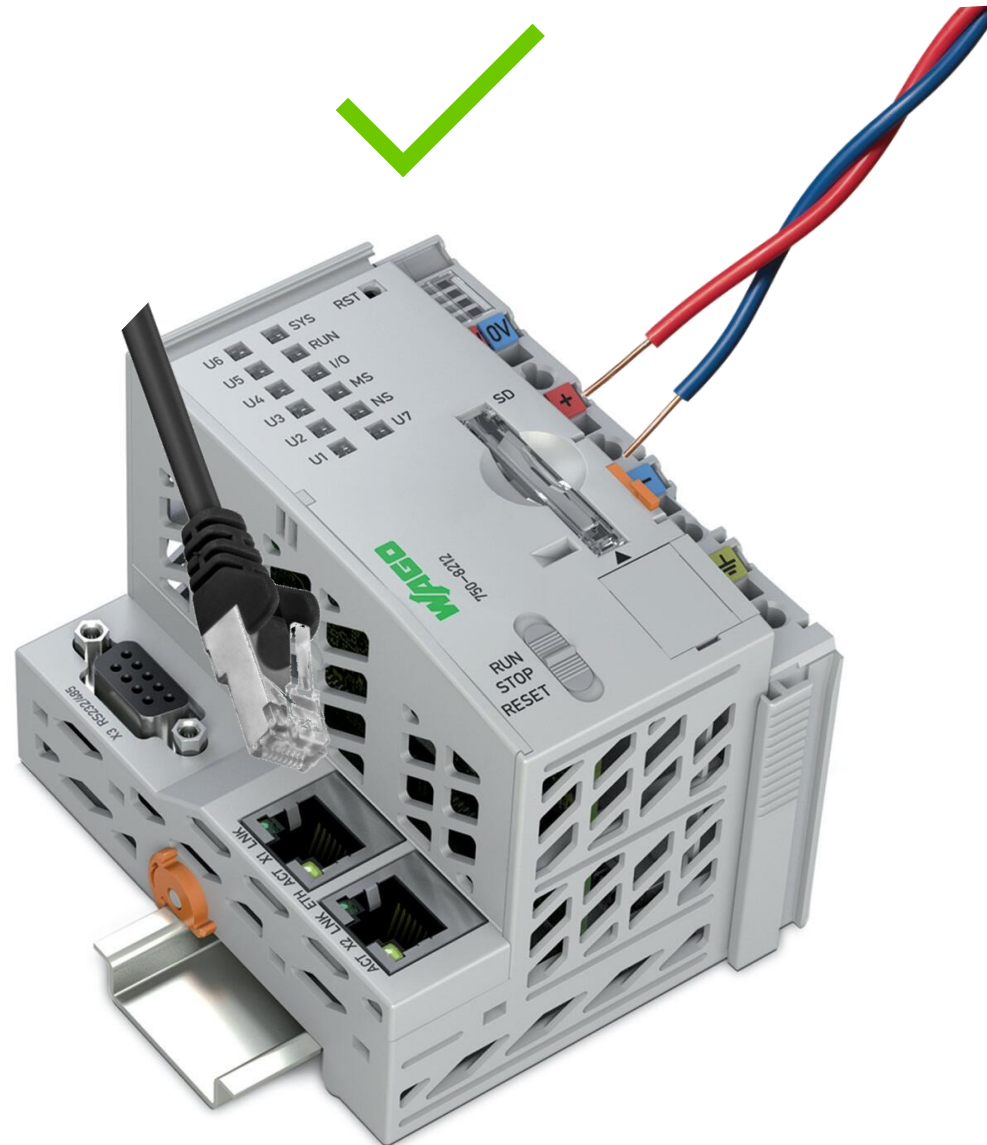


Super easy (starting with FW28):

- Connect network
- Connect power
- Accept in WAGO Device Sphere
- Done!

Save time:

- NO scan
- NO IP address setting
- NO QR-code
- NO app
- NO SD-card
- NO other tools (Ethernet settings)



Supported Hardware

Supported controllers starting with **Firmware 28** are:

PFC100 Controllers, All Derivatives	0750-811*
PFC200 Controllers 2. Generation, All Derivatives	0750-821*
PFC300 Controller (not yet, because of FW problems)	0750-83**
TP600 Control Panel	0762-****/8000-0002
Edge Controller	0752-****
Compact Controller 100	0751-93**
Compact Controller 100 V2	0751-94**
Web Panel 400	0762-34xx

