



Welcome

PLCnext Community

y ejemplos de aplicaciones con PLCnext Technology



Webinars

Agenda

- Panorama General PLCnext Technology
 - Sitio PLCnext Community
 - Plataforma LinkedIn
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 - Plataforma Youtube
 - Ejemplos de aplicaciones
-



PLCnext Technology[®]

enhance your automation thinking



What Is PLCnext Technology?

Our Answer: An Open Ecosystem for Limitless Automation

PLCnext Technology 
Designed by PHOENIX CONTACT



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PLCnext Technology in a nutshell

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Our Answer: An Open Ecosystem for Limitless Automation

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enhance your automation thinking

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PLCnext Technology in a nutshell

Open Control Platform

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PLCnext Control



Open Control Platform

PLCs in various performance classes including
PLCnext Runtime System and accessories for PLCnext Technology

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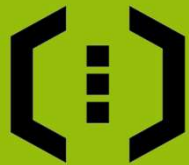
PLCnext Technology in a nutshell

Engineering Software

PLCnext Technology 
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PLCnext Technology
enhance your

PLCnext Control



PLCnext Engineering



Open Control Platform

PLCs in various performance classes
including PLCnext Runtime System and
accessories for PLCnext Technology



Engineering Software

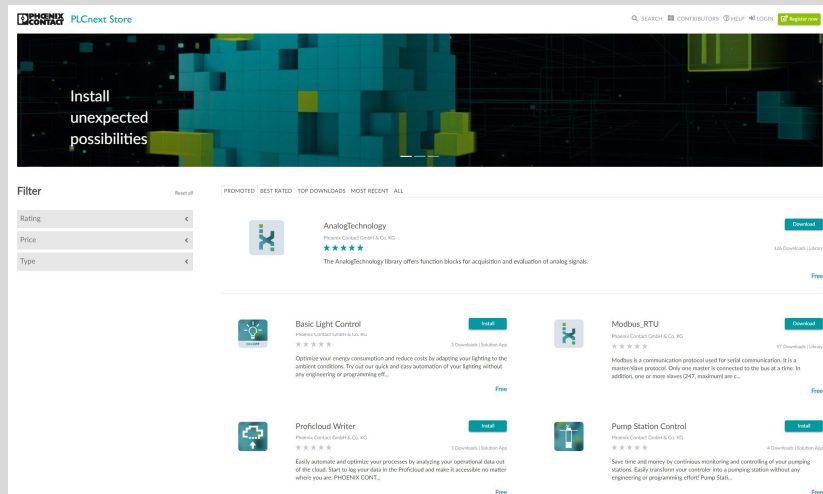
Engineering tool for commissioning, configuring,
and programming PLCnext Controls

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PLCnext Technology in a nutshell

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Software Store & Digital Marketplace for Automation



Technology 
Innovation thinking

PLCnext Store

PLCnext Community



Software Store for Automation

Apps for functional extension of
PLCnext Control and PLCnext Engineer

User Collaboration & Resources

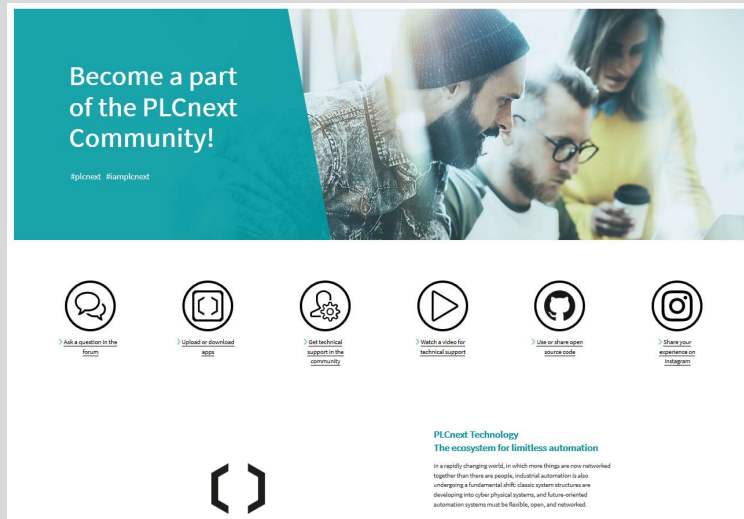
Information, support, and helpful resources
about PLCnext Technology including FAQs,
forums, tutorials and a GitHub presence

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PLCnext Technology in a nutshell

User Collaboration & Resources

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Become a part of the PLCnext Community!

#plcnext #rampplcnext

- Ask a question in the forum
- Upload or download apps
- Get technical support in the community
- Watch a video for technical support
- Use or share open source code
- Share your experience on Instagram

PLCnext Technology
The ecosystem for limitless automation

In a rapidly changing world, in which more things are now networked together than there are people, industrial automation is also undergoing a fundamental shift: classic system structures are developing into cyber physical systems, and future-oriented automation systems must be flexible, open, and networked.

User Collaboration & Resources

Information, support, and helpful resources about PLCnext Technology including FAQs, forums, tutorials and a GitHub presence



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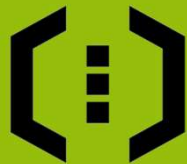
PLCnext Technology in a nutshell

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PLCnext Engineer



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Engineering tool for commissioning, configuring, and programming PLCnext Controls

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Software Store for Automation
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PLCnext Community

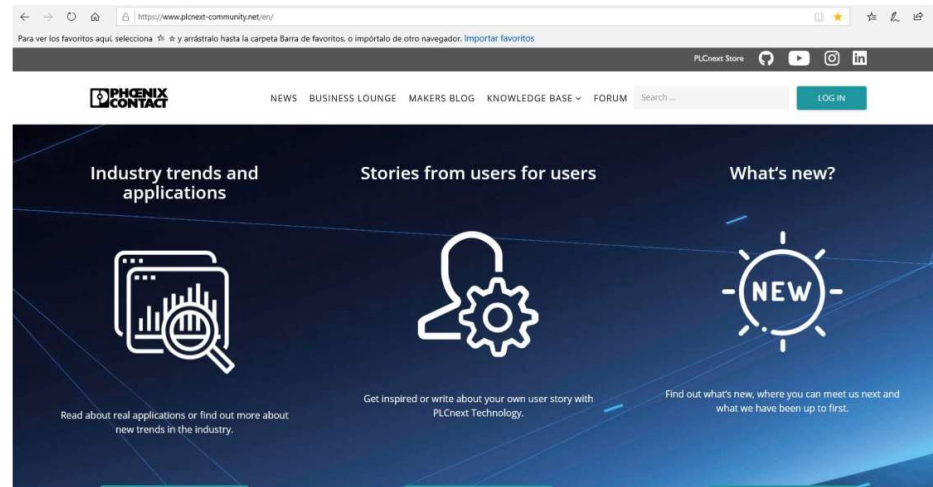


User Collaboration & Resources
Information, support, and helpful resources about PLCnext Technology including FAQs, forums, tutorials and a GitHub presence

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Site

PLCnext Community



Collaborative Platform for Limitless in Automation with PLCnext Technology

News

Business Lounge

Makers BLOG

Knowledge Base

Forum

News


NEWS ON PLCNEXT TECHNOLOGY 16 SEPTEMBER 2020 HITS: 179

Yaskawa and Phoenix Contact agree on a partnership for the PLCnext Technology open automation platform

The shared goal of Yaskawa, an industrial robotics and mechatronics manufacturer, and Phoenix Contact, a manufacturer of automation solutions, is to drive forward the transition away from proprietary solutions towards an open and future-proof ecosystem for industrial automation. Yaskawa, a leading company in this industry, has decided to use PLCnext Technology. As a part of this framework, Phoenix Contact will license its PLCnext runtime

environment to Yaskawa and has agreed upon joint further development. Yaskawa plans to use the PLCnext runtime system in the fields of Motion Controls and Robotics, initially in Europe and the USA.






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Connect your AXC F 2152 with proficloud.io and make use of the Device Management Service



Introducing the new Proficloud next generation: **proficloud.io**: The Proficloud.io is a newly started Cloud Computing environment by PHOENIX CONTACT, reachable at www.proficloud.io.

The new Proficloud.io was built as a completely new environment based on new architectures and technologies. Users can also use **both connections at the same time** (Proficloud.net + Proficloud.io) on a controller. Proficloud.io Device Management Service Available from **2020.6 with AXC F 2152 ONLY**

Business Lounge

Business Lounge

Published Date

[BUSINESS LOUNGE](#) 11 SEPTEMBER 2020 HITS: 346


Modern Programming Languages and the need of Experts



Marcel Luhmann
Technology Manager



In current time it's hard to find skilled staff for automation engineering. The challenges in automation are getting more and more complex. The way to meet these challenges is equally complex and different than in the past. Due to the complexity, automation engineers get an even

Business Lounge




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[BUSINESS LOUNGE](#)  06 FEBRUARY 2020  HITS: 1419

Artificial Intelligence (AI) in Automation - Part 1



Artificial intelligence
in automation

Part 1/2

Christian Vilsbeck
A&D

Modern machines and production facilities supply vast amounts of data. The art lies in generating added value from this information. With artificial intelligence, correlations can be formed and processes can be optimized by self-learning. To do this, however, mechanical engineers and plant operators need a future-proof technological basis on which they can introduce their AI competence step-by-step and in a scalable manner. A powerful and open control platform is the basis for the implementation of artificial intelligence.



Makers Blog

Find user stories of interesting **ideas and solutions** in this blog.

Note: The Makers Blog shows applications and user stories of community members that are not tested or reviewed by Phoenix Contact.

For **questions**, please go to the **FORUM** section and create a new entry there.

Want to **add your own solution** here? Just login as a registered user and click the "Create Blog entry" button. Find a short **intro video** by clicking the "How to create a blog entry" button. If you experience any problems with editing or publishing please contact us at CommunityExamples@phoenixcontact.com.

👤 MARTIN BOERS 📁 **MAKERS BLOG** 📅 14 SEPTEMBER 2020 👁 HITS: 71

OPC UA Certificate "Push Management"

In a [previous article](#), OPC UA Local Discovery Servers (LDS) were introduced.



Global Discovery Servers (GDS) provide similar discovery features to Local discovery servers, but they also provide the ability to manage security certificates on multiple OPC UA servers from a single point.

This article demonstrates "GDS Push Management", which allows security certificates to be "pushed" to an OPC UA server device.

Read more ...

> How to use your own Security Certificate with an OPC UA Server on a PLCnext Control
(3974) 20.07.20

This is an update to an article that was originally published in November 2018. All PLCnext...

[Read more: How to use...](#)

> Node-RED and getting started with Docker
(3271) 18.04.20

A Docker container can be used to run a node-RED server on a PLCnext device. Although the other...

[Read more: Node-RED and...](#)

> Yet another how-to quick start
(1248) 10.04.20

This post shows some user side point of view how to quick start with controller. [Here on GitHub](#) you...

[Read more: Yet another...](#)

> Node-Red with docker tips and best practice
(1148) 20.04.20

After I read the great blog entry from Dries about running Node-Red in a docker container, I...



Makers Blog

👤 DRIES VAN LAERHOVEN 📁 MAKERS BLOG 📅 18 APRIL 2020 👁 HITS: 3272

Node-RED and getting started with Docker

A Docker container can be used to run a node-RED server on a PLCnext device. Although the other method described [here](#) is a little faster. The use of OCI containers comes with some advantages. For example when repeatedly using the same packages for an application it can be useful to build a standard image and just download it from Docker hub. Docker can also be used to start and stop the node-red server when we want to. ⚙ +

This blog will explain just that. First I'll guide you through the installation process of Docker and we'll check the installation. We'll build a custom image with packages of to our liking pre-installed with a Dockerfile and create a container from our freshly created image. Finally we'll make sure our container will start on boot of the controller and push our image to Dockerhub.

Makers BLOG

Installation of the Balena - engine

I lied a bit when I said Docker containers can be used to run a node-RED runtime on a PLCnext device. As you'll see we use the Balena-engine as an engine to run containers, more specifically we'll use OCI (Open Container Initiative) containers. Wrestling through the nomenclature would bring us way too far for a Makersblog, but in the further reading section at the end of this blog I've added some links for those who are interested.

The installation procedure is rather easy and can be found [here](#) for full reference, but for practicality reasons the commands are also given in the next section.

Make sure you're logged in as a root user, to create a new root password type the following command in the shell and type your admin password followed by two times the new root pass.

```
sudo passwd root
```

Login as root user by typing su followed by your newly created password.

Clone the git repository and go to the new folder

```
git clone https://github.com/PLCnext/Docker_SettingStarted.git  
cd Docker_SettingStarted
```

Make the setup script executable and execute said script.

```
chmod +x setup.sh  
./setup.sh
```

PLCnext Community


Knowledge Base

- Webinars
 - Getting Started
 - PLCnext Info Center
 - PLCnext Store Info Center
 - Tutorials
 - Manuals
 - E-Learning
 - FAQ
 - Features and Roadmap
-



PLCnext Community / Knowledge Base

Webinars



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PLCnext Technology Webinars

#stayathome - Virtual, Anywhere, PLCnext Technology -

Meet our experts online live

Learn more about PLCnext Technology from anywhere in the world with our webinars. Tailored to your prior knowledge and available in multiple languages, we offer you a range of different trainings. From basic seminars to hands on programming, our experts will show you the world of PLCnext Technology live and online. All you need is a PC with internet access and speakers or headphones. Benefit from the knowledge and experience of our speakers, ask them your questions, and get in touch with other users. Find the webinar that is most suited for you now and join the PLCnext Community.

Webinar: How to use docker with a PLCnext Control

Date: 21 October 2020
Time: 10:01 AM (CET), Germany 10:00 AM (CT)
Language: English
Speaker: Stefan Brinkmann

In this webinar you will learn how to use docker on the AXC F2752. You will learn what docker is and how to install different images in this environment.

CHECK IN FOR WEBINAR

Read more...

WatchWatch again

Webinar: Real-time Data Logger

Date: 05 October 2020
Time: 07:00 AM (CET), Germany 06:00 AM (CT)
Language: English
Speaker: Christine Rosenblum

This webinar will give you an overview about the Data Logger available on PLCnext Control. Using an exemplary configuration, you will learn how to log data from the application into an SQL database without having to program additional code.

CHECK IN FOR WEBINAR

Read more...

WatchWatch

Webinar: Basics of PLCnext Technology

Date: 14 October 2020
Time: 04:00 PM (CET), Netherlands 04:00 PM (LT)
Language: Dutch
Speaker: Harro Gauritz

An interesting webinar for anyone who wants to create new opportunities within industrial automation. You get acquainted with the unique characteristics of PLCnext Technology. In addition, the architecture of the classic PLC, the PLCnext Technology and other control solutions will be discussed.

CHECK IN FOR WEBINAR

Read more...

WatchWatch againAll eventsAll eventsWatch again

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CHECK IN FOR WEBINAR

Read more...

WatchWatch again

Webinar: C++ Components for Non-Real-time Applications

Date: 03 November 2020
Time: 10:00 AM (CET), Germany 10:00 AM (CT)
Language: English
Speaker: Christine Rosenblum

In this webinar you will learn how to create C++ components and how to integrate them. You will also learn what types of installation possibilities exist and how they differ. Additionally you will be shown interfaces to process data and data from the real-time context.

CHECK IN FOR WEBINAR

Read more...

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Webinar: Basics of PLCnext Technology

Date: 05 November 2020
Time: 07:00 AM (CET), Netherlands 06:00 AM (LT)
Language: Dutch
Speaker: Harro Gauritz

An interesting webinar for anyone who wants to create new opportunities within industrial automation. You get acquainted with the unique characteristics of PLCnext Technology. In addition, the architecture of the classic PLC, the PLCnext Technology and other control solutions will be discussed.

CHECK IN FOR WEBINAR

Read more...

WatchWatch againAll eventsAll eventsWatch again

Webinar: Basics of PLCnext Technology

Date: 08 November 2020
Time: 04:00 PM (CET), Netherlands 04:00 PM (LT)
Language: Dutch
Speaker: Harro Gauritz

An interesting webinar for anyone who wants to create new opportunities within industrial automation. You get acquainted with the unique characteristics of PLCnext Technology. In addition, the architecture of the classic PLC, the PLCnext Technology and other control solutions will be discussed.

CHECK IN FOR WEBINAR

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Getting Started



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Getting Started with PLCnext Technology

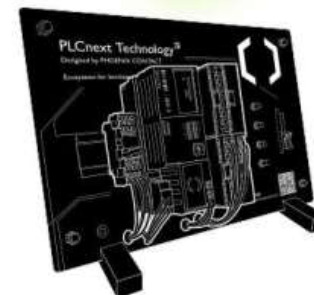
Welcome to PLCnext Technology. This guide will help you to get your hardware all set up, download and install PLCnext Engineer, and start with your first sample project which is to automate a coffee machine. And who doesn't like coffee, right?

You don't have a PLCnext Technology starterkit yet? Then order now.

[GET STARTERKIT](#)

Scope of delivery

- ✓ Board (including PLCnext Control AXC F 2152, Axioline F Backplane, and four Axioline Smart Elements)
- ✓ Power supply unit (incl. country plug)
- ✓ Patch cable
- ✓ Stickers
- ✓ Welcome card
- ✓ Feet



PLCnext Info Center

The screenshot shows the PLCnext Info Center website. The header includes the PLCnext logo and a search icon. Below the header is a navigation bar with tabs for 'Contents' and 'Glossary'. The left sidebar contains a list of links: 'About', 'About this platform', 'Latest changes', 'Product range', 'Releases', 'Info Center changelog', 'Features and roadmaps', 'PLCnext Runtime', 'Operating System', 'Security', 'Web-based Management', 'Service Components', 'PLCnext Engineer', 'Programming', 'PLCnext Store', and 'Legal information / Imprint'. The main content area has a 'Welcome' section with a 'Latest changes' button. Below this is a diagram of the PLCnext architecture. The diagram shows a stack of components: 'IEC 61131-3 PLCnext Engineer', 'MATLAB® Simulink®', 'C# function block', and 'C++ real-time app' at the top. Below these is the 'PLCnext Store'. The core of the architecture is the 'PLCnext Runtime', which includes the 'Execution and Synchronisation Manager', 'Service Components' (with a note to 'Use built-in benefits, or develop your own functional features'), 'I/O and fieldbus', and 'Global Data Space'. A 'C++ function extension' is also shown. The entire system runs on 'Linux with preempt_rt patch'. On the right side of the diagram, there are arrows indicating connections to 'OCI containers', 'C/C++', 'Node.js®', 'Rust', '.NET Core', 'Java®', and 'Python...'. The bottom right corner of the screenshot shows two circular navigation icons.

PLCnext Store Info Center

PLCnext Store Info Center

Contents

- Home
- ▶ PLCnext Store Guide
- ▶ PLCnext Store FAQ
- ▶ PLCnext App Integration Guide
- ▶ PLCnext App Quality Guide
- Imprint

Welcome to the PLCnext Store Info Center

In the PLCnext Store Info Center you find all information about the PLCnext Store.

PLCnext Store

The PLCnext Store provides software applications (apps) with which you can directly and easily expand the functions of a PLCnext controller. As a developer of software solutions, you can also create your own apps and offer them in the PLCnext Store. Go to the [PLCnext Store](#).

PLCnext Store Guide

In the [PLCnext Store Guide](#) you find information on how to use the PLCnext Store:

- How do I register in the PLCnext Store?
- Which app types are available?
- How do I download an app?
- ...

PLCnext App Integration Guide

In the [PLCnext App Integration Guide](#) you find information on how to build an app you want to offer in the PLCnext Store.

In this topic

- [PLCnext Store](#)
- [PLCnext Store Guide](#)
- [PLCnext App Integration Guide](#)
- [PLCnext App Quality Guide](#)
- [How to get in touch](#)

Tutorials

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PLCnext Info Center

Choose a Tutorial Video in the subnavigation.

Tutorials >

Manuals >

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FAQ

Features and Roadmap

PLCnext Engineer, and start

PLCnext Technology 2019.x

PLCnext Control and Extensions

PLCnext Engineer

PC Worx Target for Simulink

Proficloud



PLCnext Engineer

PLCnext ENGINEER TUTORIALS 22 FEBRUARY 2019 15:57:51
Getting started: Program in IEC 61131-3 languages



PLCnext Engineer
Engineering Software

Getting started
How to set up a new
IEC 61131-3 project

Duration:
04m:24s

Content of this video:

- Set up a PLC project in PLCnext Engineer for both IEC 61131 and high-level language PLC programming. The example is done with different PROFINET controllers and I/O modules.
- Set up and scan the network, add different devices and assign IP addresses and PROFINET names to them.



PLCnext Engineer
Engineering Software

Getting started
How to program with
IEC 61131-3 languages

Duration:
04m:14s

Content of this video:

- Program a simple task and download it to a PLCnext Control.

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


[Features and Roadmap](#)

[PLCnext Engineer, and start](#)

[PLCnext Control AX C F 2152](#)


[AX C F IL ADAPT](#)

[AX C F XT ETH 1TX](#)

AXC F 2152 User Manual

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- 5 Connecting and wiring hardware
- 6 Startup
- 7 Transferring variable values to the PROFICLOUD
- 8 System variables and status information
- 9 Web-based management (WBM)
- 10 Removing hardware
- 11 After use
- 12 Troubleshooting and Frequently Asked Questions (FAQ)
- 13 Ordering data and technical data
- A Appendix



This user manual is valid for:

As of version (HW)	As of version (FW)	Order No.
AXC F 2152	02	1.1.0
		2404267

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


[Features and Roadmap](#)

[PLCnext Engineer, and start](#)

[PLCnext Control AX C F 2152](#)


[AX C F IL ADAPT](#)

[AX C F XT ETH 1TX](#)

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AXC F 2152	02	1.1.0
		2404267

E-Learning

[E-Learning](#) >

[FAQ](#)

[Features and Roadmap](#)

[Date: 14 October 2020](#)

[Time: 04:00 PM \(CET\)](#)

[PLCnext Technology Basics](#)

[PLCnext Engineer Basics](#)

[PLCnext Engineer eHMI](#)

[Function Extensions](#)



PLCnext Engineer eHMI (EN)

Agenda

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PLCnext Engineer
Engineering Software

Menu

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Custom
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Page
templates and
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Chapter 8:
dynamics

Chapter 9:
Trend, Alarms,
Recipes

Chapter 10:
Options


Learning goals:

- After this e-learning one is able to create running visualizations with the tool PLCnext Engineer.

Click on the info modules to learn more about the topic.

[PREV](#)

FAQs



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Road Map

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Features and Roadmap

ROADMAPS04 AUGUST 2020HITS: 2493

General Release Strategy:

The PLCnext Technology Ecosystem (PLCnext Controls, PLCnext Engineer and PLCnext Store) will continue to develop very dynamically in the next years. Therefore we decided to release every year in total **four** PLCnext Control firmware and PLCnext Engineer versions.

At the beginning of every year we will come up with a Long Term Support (LTS) firmware version. The current LTS version is permanently supplied with bugfixes. Each quarter follows a new version with additional features, which will also be included in the next LTS version.

This gives you the possibility to develop your application or app always with the latest versions, and to enjoy new features first!

Version name	Release date
2019.0 LTS	February 20th, 2019
2019.3	March 29th, 2019
2019.6	June 27th, 2019
2019.9	September 29th, 2019
2020.0 LTS	December 6th, 2019
2020.3	April, 2020
2020.6	July, 2020

For all details, please refer to the regarding topics in the [PLCnext Info Center](#).

PLCnext Technology in a nutshell

PLCnext Community

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on GitHub



PLCnext
Store



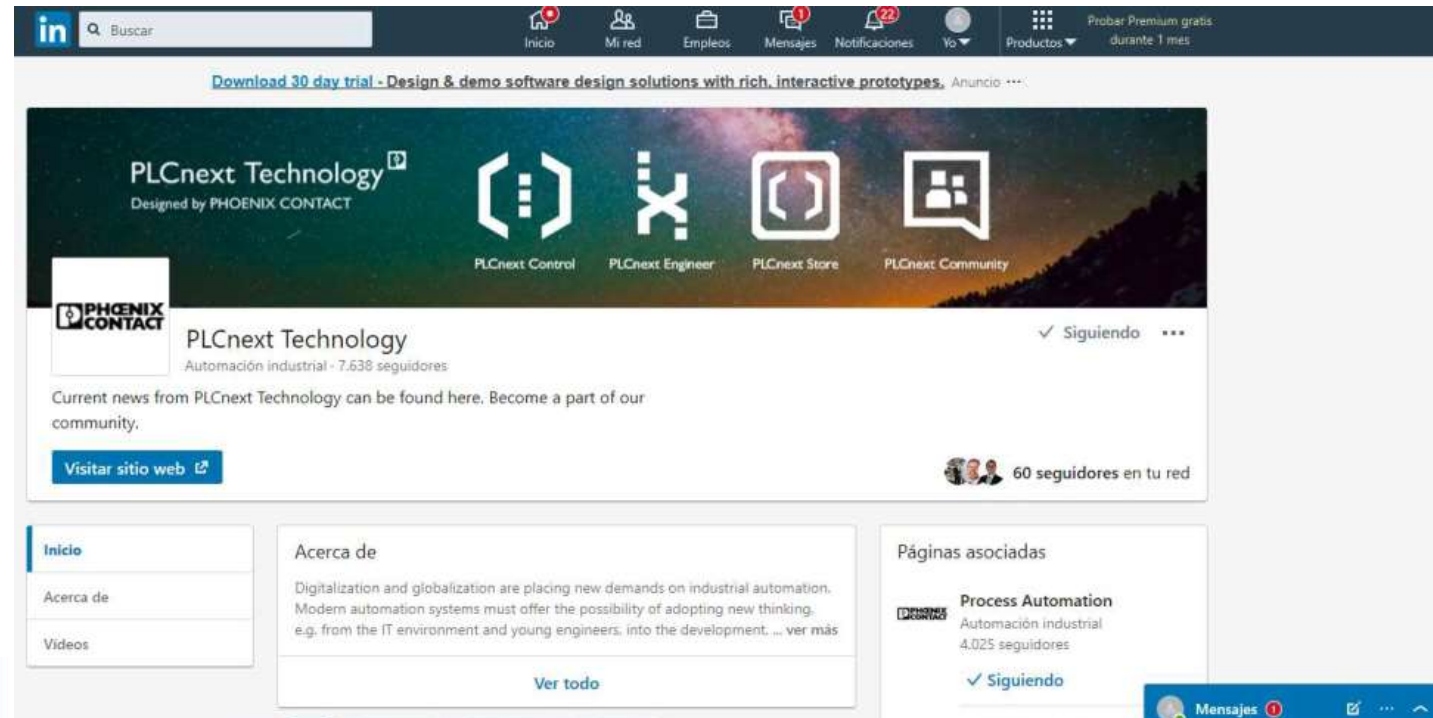
Technical
Tutorials

PLCnext Technology[®]
enhance your automation thinking

PLCnext Communi^{gy} Plataformas



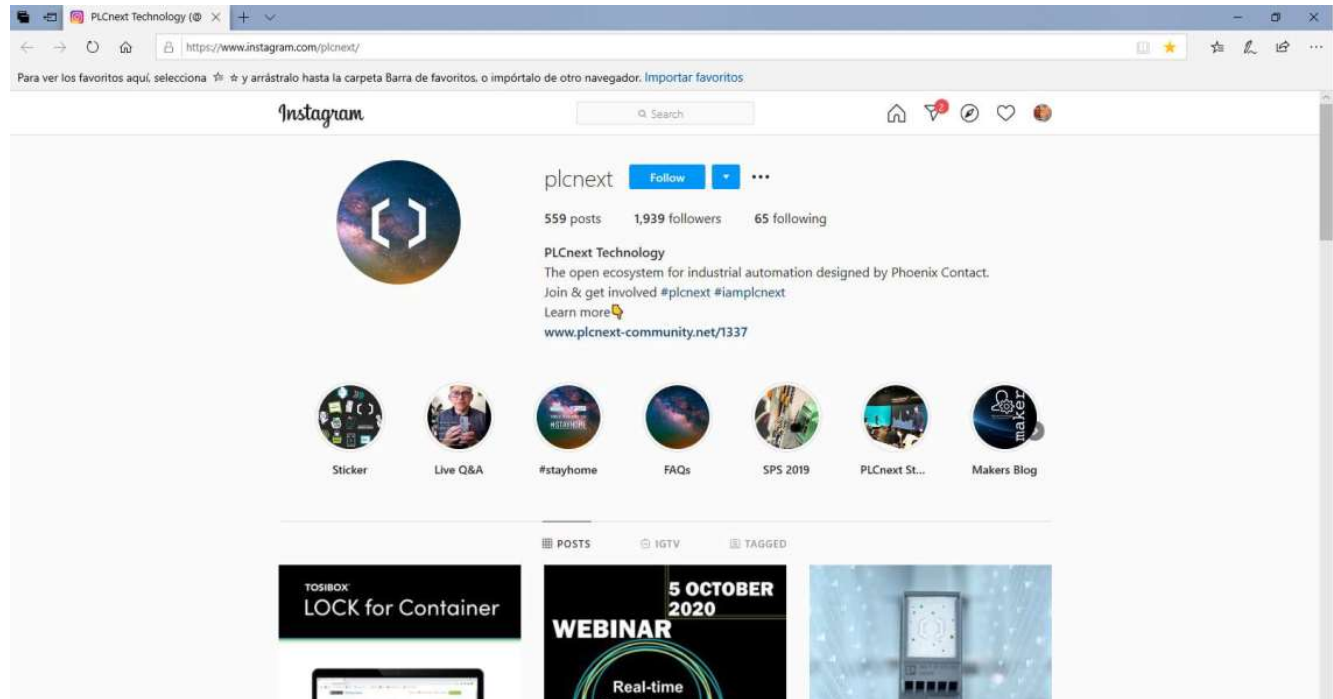
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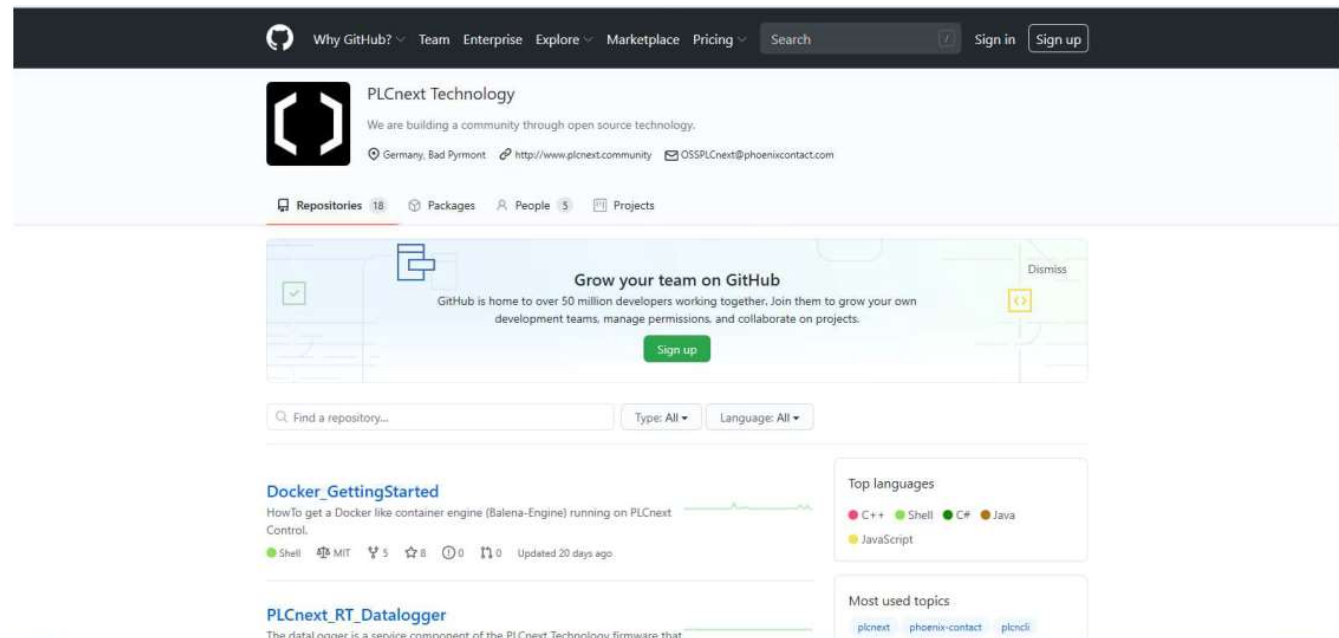
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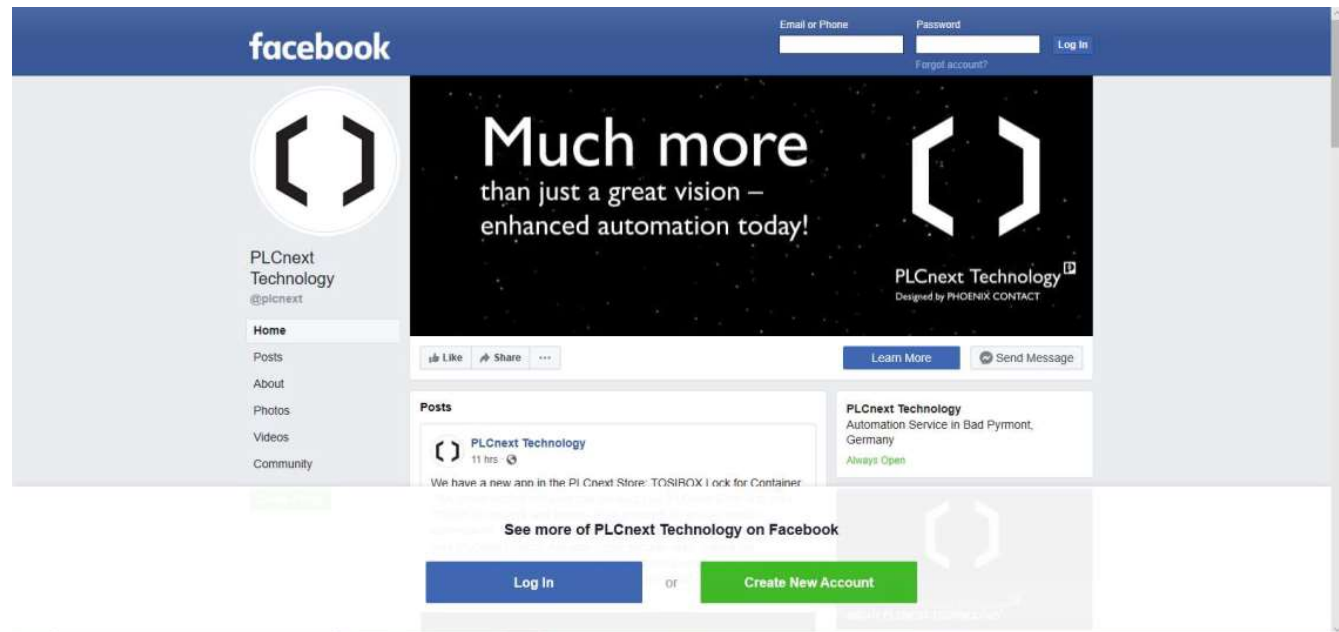


PLCnext Community

Plataformas

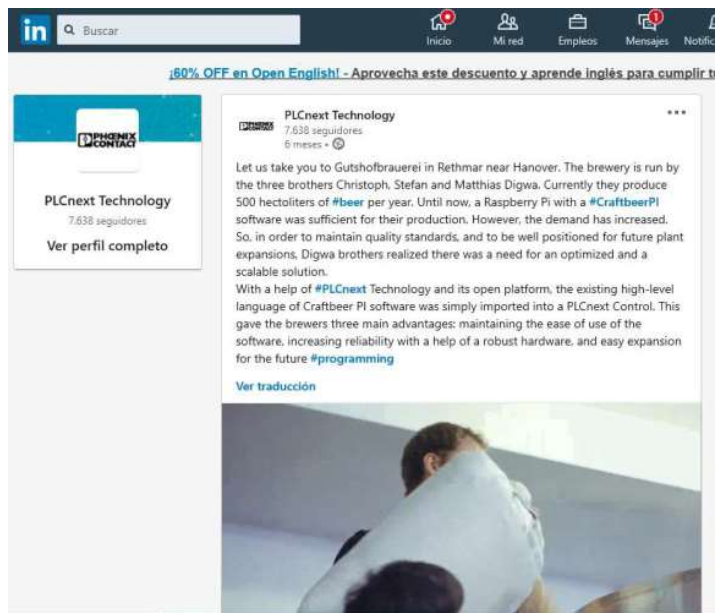
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Aplicaciones



Permítanos llevarlo a Gutshofbrauerei en Rethmar, cerca de Hannover. La cervecería está dirigida por los tres hermanos Christoph, Stefan y Matthias Digwa. Actualmente producen 500 hectolitros de [#beer](#) al año. Hasta ahora, una Raspberry Pi con un [#CraftbeerPI](#) software era suficiente para su producción. Sin embargo, la demanda ha aumentado. Por lo tanto, con el fin de mantener los estándares de calidad, y para estar bien posicionados para futuras expansiones de plantas, los hermanos Digwa se dieron cuenta de que había una necesidad de una solución optimizada y escalable.

Con la ayuda de [#PLCnext](#) La tecnología y su plataforma abierta, el lenguaje de alto nivel existente del software Fabricbeer PI simplemente se importó en un PLCnext Control. Esto dio a los cerveceros tres ventajas principales: mantener la facilidad de uso del software, aumentar la fiabilidad con la ayuda de un hardware robusto y facilitar la expansión para el futuro [#programming](#)

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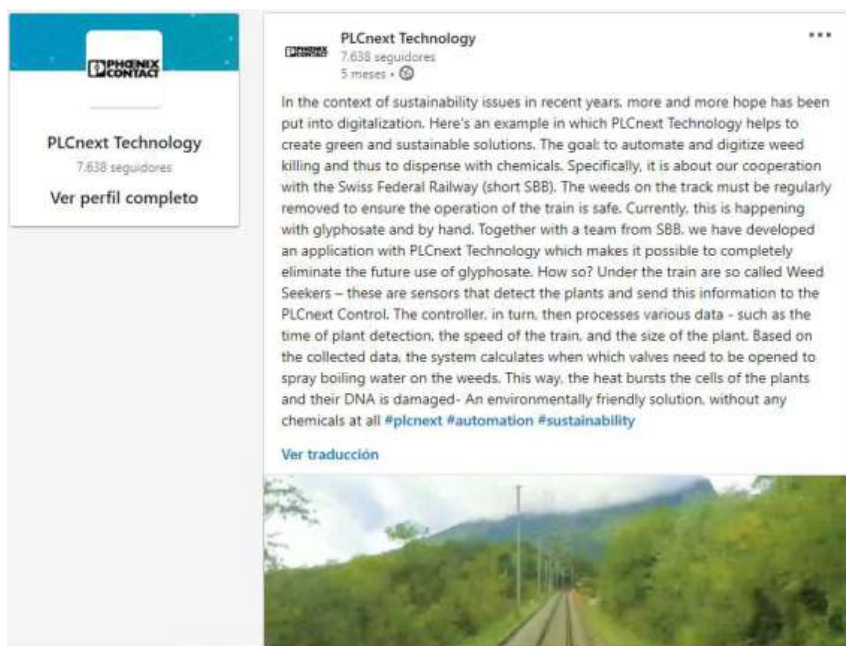
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We want to show you how PLCnext Technology can integrate future technologies into existing systems. Let's go to our example in Huntorf in Germany. This power plant is all about storing energy. Surplus electricity is stored here, which can then be fed back into the power grid when it's needed. PLCnext Technology was the vital element in upgrading this plant because the existing power plant controller was not up to the new challenges. So we developed a solution in close cooperation with the customer. The key here was that the PLCnext Control could be seamlessly installed and was compatible with the existing technology. The new controller reads operating data from the existing controller and transmits it to a local visualization system. To achieve this, we used the OPC UA communication standard. The data is also transmitted to the control center at the power plant in Wilhelmshaven. Additionally, the openness to new technologies was a key argument for choosing PLCnext Technology - for example, integrating Blockchain. Blockchain is a digital platform that securely saves data and transactions using peer-to-peer networks. And in contrast to the old controller, the PLCnext Control can transfer values to a blockchain #plcnext #iampcnext #blockchain #programming #powerplant

Queremos mostrarle cómo PLCnext Technology puede integrar tecnologías futuras en sistemas existentes. Vayamos a nuestro ejemplo en Huntorf en Alemania. Esta planta de energía se trata de almacenar energía. El excedente de electricidad se almacena aquí, que luego se puede volver a introducir en la red eléctrica cuando sea necesario. PLCnext Technology fue el elemento vital en la actualización de esta planta porque el controlador de la planta de energía existente no estaba a la altura de los nuevos desafíos. Así que desarrollamos una solución en estrecha cooperación con el cliente. La clave aquí era que el PLCnext Control se podía instalar sin problemas y era compatible con la tecnología existente. El nuevo controlador lee los datos operativos del controlador existente y los transmite a un sistema de visualización local. Para lograrlo, utilizamos el estándar de comunicación OPC UA. Los datos también se transmiten al centro de control de la central eléctrica de Wilhelmshaven. Además, la apertura a las nuevas tecnologías fue un argumento clave para elegir la tecnología PLCnext, por ejemplo, la integración de Blockchain. Blockchain es una plataforma digital que guarda de forma segura datos y transacciones mediante redes punto a punto. Y a diferencia del controlador anterior, el control PLCnext puede transferir valores a una cadena de bloques #plcnext #iampcnext #blockchain #programming #powerplant

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En el contexto de las cuestiones de sostenibilidad de los últimos años, se ha puesto cada vez más esperanza en la digitalización. Este es un ejemplo en el que la tecnología PLCnext ayuda a crear soluciones ecológicas y sostenibles. El objetivo: automatizar y digitalizar la matanza de la hierba y así prescindir de los productos químicos. En concreto, se trata de nuestra cooperación con el Ferrocarril Federal Suizo (corto SBB). Las weeds en la vía deben ser retiradas regularmente para asegurarse de que el funcionamiento del tren es seguro. Actualmente, esto está sucediendo con glifosato y a mano. Junto con un equipo de SBB, hemos desarrollado una aplicación con tecnología PLCnext que permite eliminar por completo el uso futuro del glifosato. ¿Cómo es eso? Bajo el tren se llaman Weed Seekers – estos son sensores que detectan las plantas y envían esta información al PLCnext Control. El controlador, a su vez, procesa varios datos, como el momento de la detección de la planta, la velocidad del tren y el tamaño de la planta. Sobre la base de los datos recogidos, el sistema calcula cuándo deben abrirse las válvulas para rociar agua hirviendo sobre las hierbas. De esta manera, el calor rompe las células de las plantas y su ADN está dañado- Una solución respetuosa con el medio ambiente, sin ningún producto químico en absoluto #plcnext #automation #sustainability

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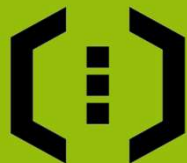
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