

CODESYS installation guide

2022 fall

If you would like to install CODESYS to your own PC with the packages available at the virtual machines (and which shall be used for the assignments in 2022 fall), you shall follow this installation guide. By using the CODESYS Installer application, it is possible to install multiple versions of CODESYS, even with different add-on packages on the same PC, hence you shall use it during the installation.

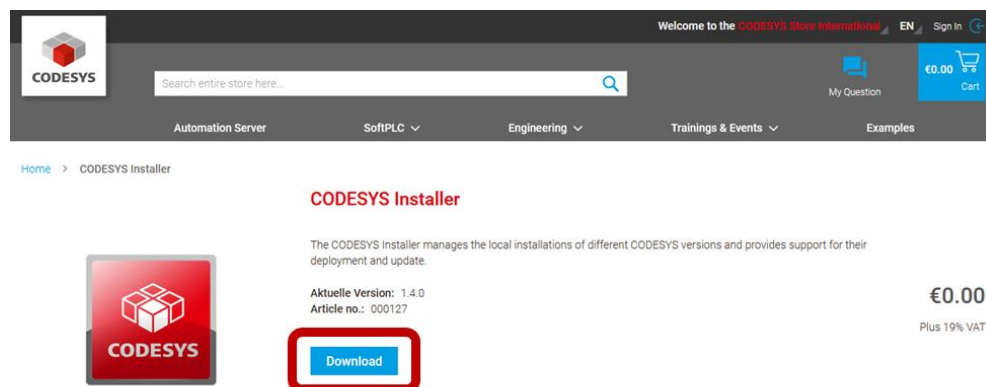
If you would like to get feedback on your assignment without any delay or to use the projects available for the practices without any extra steps, you should follow this installation guide and you should not install any updates which might be available during the semester.

1. DOWNLOAD THE INSTALLATION CONFIGURATION FILE FROM THE WEB SITE OF THE COURSE!

The configuration file `BMEVIIIAC03_2022.installation-config`, required for the installation, is available at the web site of the course (<https://edu2.cloud.bme.hu/BMEVIIIAC03>).

2. DOWNLOAD CODESYS INSTALLER FROM CODESYS STORE

Open <https://store.codesys.com/en/codesys-installer.html> and click the Download button!



If you have already registered a CODESYS Store account, log in using your email address and password. Otherwise, click the Create Account button.

This process requires a login/registration in the CODESYS Store.

Create Account

OR

Login

Email Address *

Password *

Forgot Your Password? Sign In

Register as an Individual Customer by clicking the **Create Individual Customer Account** button. Fill in the registration form and confirm your account.

Customer Login Registered Customers

If you have an account, sign in with your email address.


Email *

Password *

[Sign In](#)

[Forgot Your Password?](#)

* Required Fields

 As a customer from the USA, Canada or Mexico please visit the [CODESYS Store North America](#).

Corporate Customer

Here you can register your company. After verification of your company data, we will activate your account that enables you to purchase products from the CODESYS Store. If you have a valid VAT ID number or business tax certificate, no VAT will be charged on your orders.

[Create Company Account](#)

Individual Customer

Here you can create an individual customer account as a private person. If you are exempt from paying taxes, please register as a corporate customer. An individual customer account cannot be converted into a company account afterwards.

Immediately after registration you can download software and use all products marked "Free" for free. Orders of licenses are possible as soon as you have confirmed your e-mail address. For orders the legal value added tax will be added.

[Create Individual Customer Account](#)

After login in, click the **Download** button on page <https://store.codesys.com/en/codesys-installer.html>
When the License Agreement is displayed, scroll down to the bottom and accept it.

License Agreement

License Agreement
for the usage of a CODESYS Software or CODESYS Software Package

General Terms of License (End User License Agreement) for the supplied Software. Please read this Software User Agreement carefully before using the supplied Software. Downloading or installation of the Software constitutes recognition by the customer of the conditions of this Agreement.

The following conditions are agreed between you as the software user and the company CODESYS GmbH (hereinafter referred to as vendor), 87439 Kempten (Germany) and are legally binding.

With this license agreement, you acquire the permission of use for Software from CODESYS GmbH (e. g. <http://codesys.com>, <http://store.codesys.com>). Some products may only be used for a limited period of time (Products with the name affix Abo, Abonnement or Subscription). If you do not agree to the following license agreement, then you, the user, are not permitted to save and/or install the Software. Should you have already installed the Software, and you do not agree to the license agreement, then immediately delete or uninstall the Software.

§ 1 Object of the License Agreement

The object of the License Agreement is the supplied Software that you have received either directly or from the CODESYS Store. With the provided Software, the user is in the position to use and/or to extend the CODESYS Development System and/or implement a CODESYS runtime environment on a specific programmable logic controller (PLC), herein termed "device". The user has the right to install the functions of the Software after installation of the device software and/or the CODESYS Development System.

In this way, the user can use the functions as specified in the data sheet of the Software.

§ 2 Geographic Restriction

None

§ 3 Rights of Use

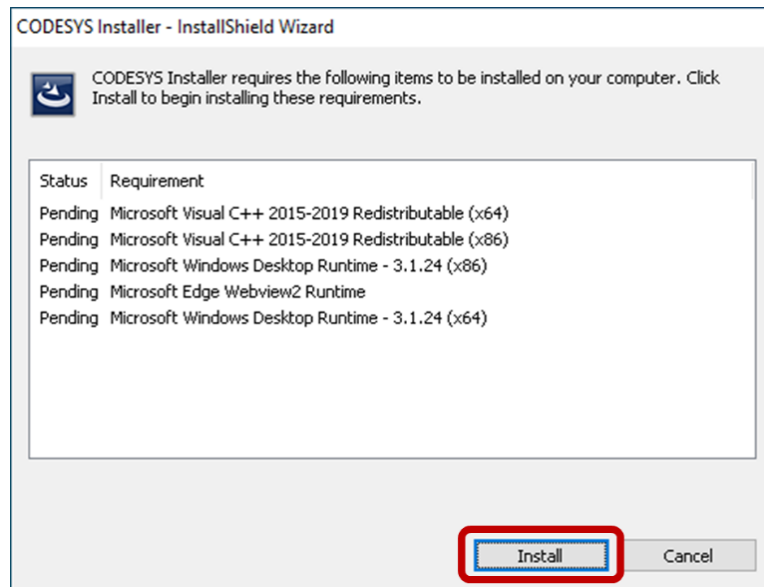
Different license models grant different usage rights. A CODESYS Softcontainer or CODESYS Key (hardware dongle) is required to use the demo, full or time license.

Free: Software that is indicated as "Free" in the CODESYS Store is not subject to an automatic license check by the

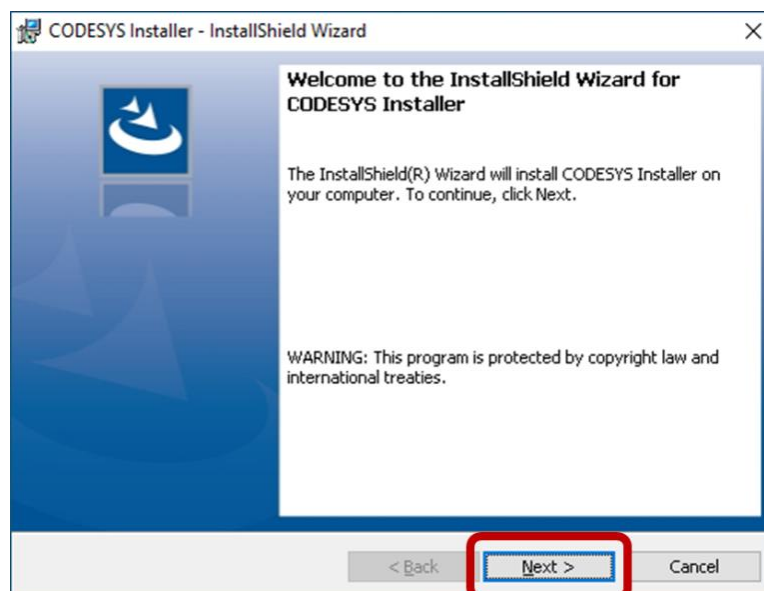
After that, download of CODESYS Installer is started.

3. INSTALL CODESYS INSTALLER

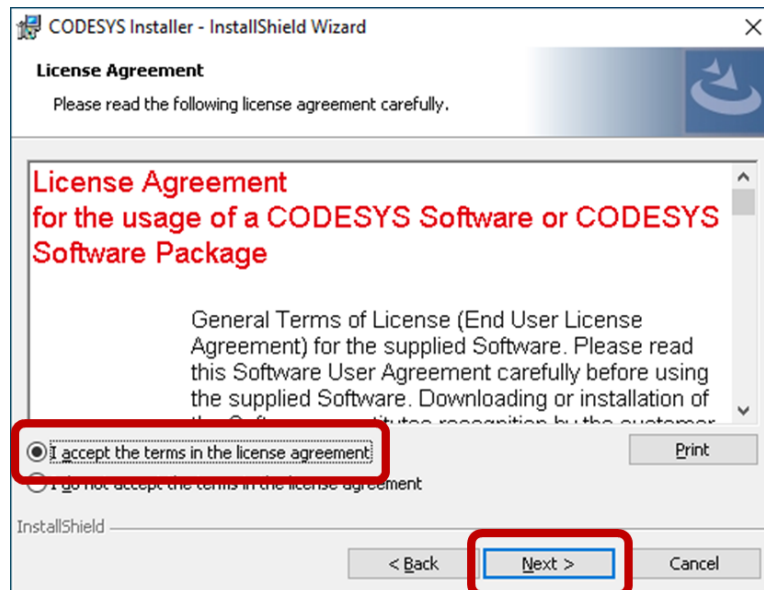
Start CODESYS Installer. At first it will check if all required components are available on your computer. If not, click the Install button to install them.



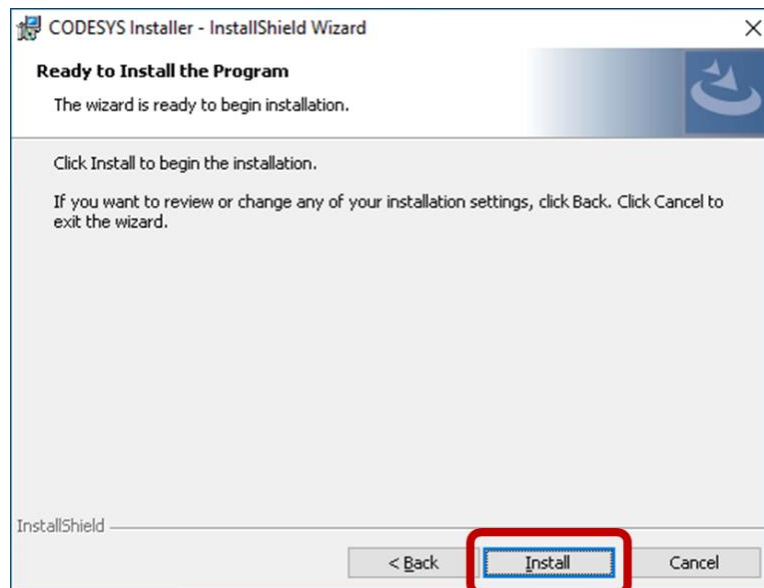
If all required components are available, you can start the setup procedure by clicking **Next**.



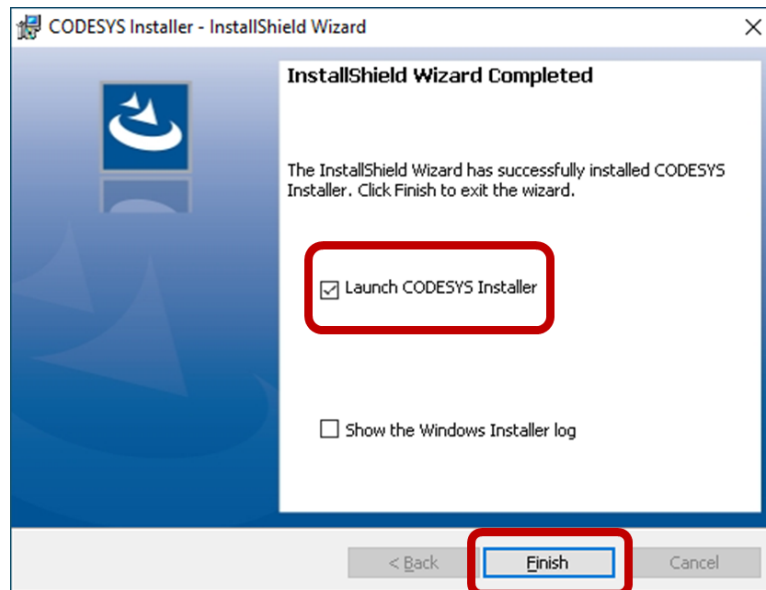
Accept the license agreement and click **Next**.



Confirm that you would like to install the application by clicking the **Install** button.

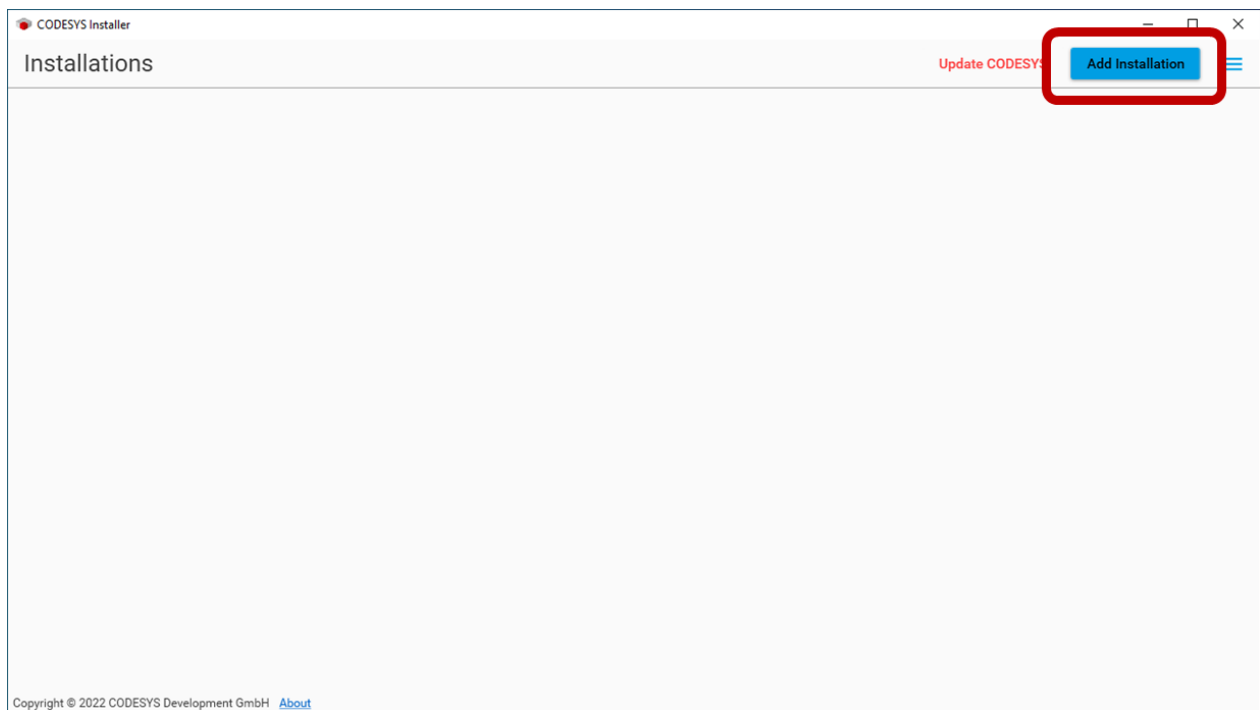


When the installation is completed, leave the **Launch CODESYS Installer** box checked and click **Finish**.



4. INSTALL THE DEVELOPMENT ENVIRONMENT

In the CODESYS Installer window click the **Add Installation** button at the top right corner.



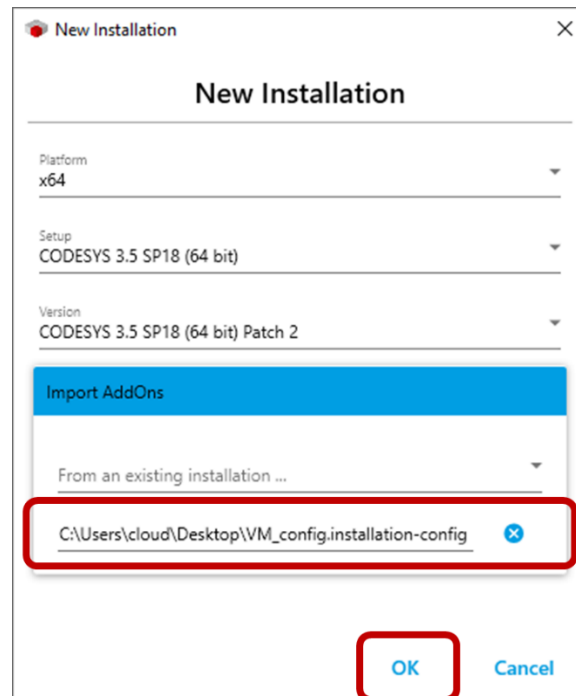
Take extra care to select the following options in the dialog displayed.

- Platform: **x64**
- Setup: **CODESYS 3.5 SP18 (64 bit)**
- Version: **CODESYS 3.5 SP18 (64 bit) Patch 2**

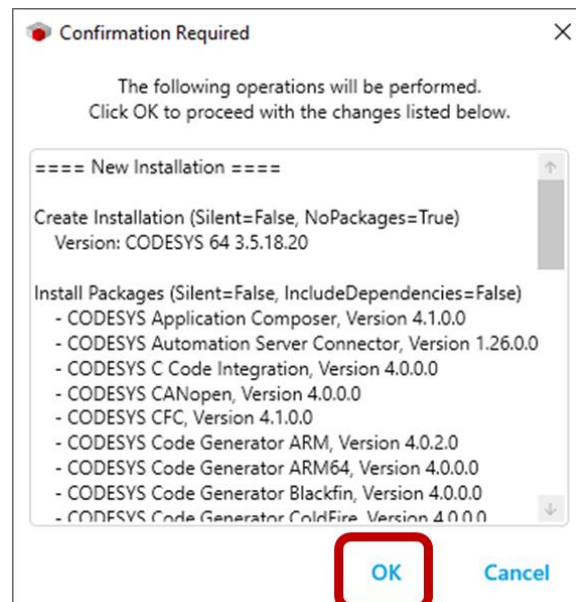
The screenshot shows a 'New Installation' dialog box. It features three dropdown menus for configuration: 'Platform' (x64), 'Setup' (CODESYS 3.5 SP18 (64 bit)), and 'Version' (CODESYS 3.5 SP18 (64 bit) Patch 2). Below these is an 'Import AddOns' section with a blue header. This section contains two input fields: 'From an existing installation ...' and '... or from an AddOn Configuration file'. The ellipsis button next to the second input field is highlighted with a red box. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

Inside the **Import AddOns** panel, click on the ... icon next to the bottom input field (*...or from an AddOn Configuration file*) and browse the **configuration file** downloaded from the web site of the course.

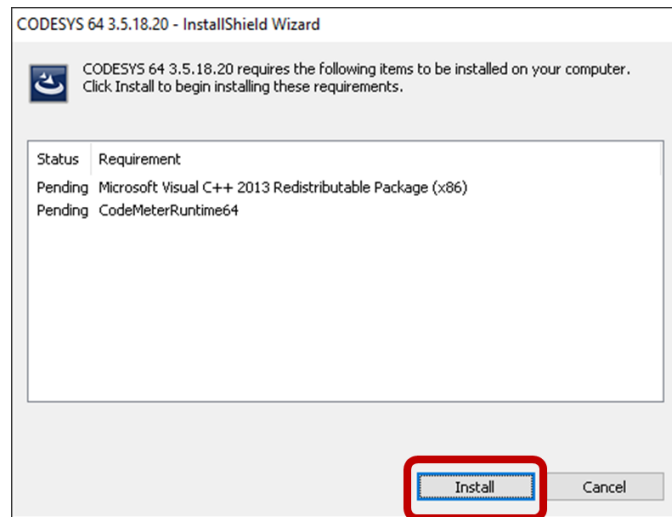
Check the settings once again and click **OK**!



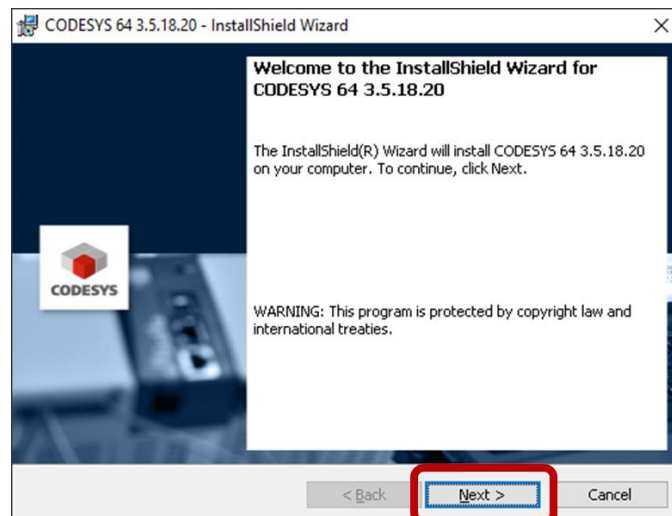
Confirm the components to be installed by clicking **OK**.



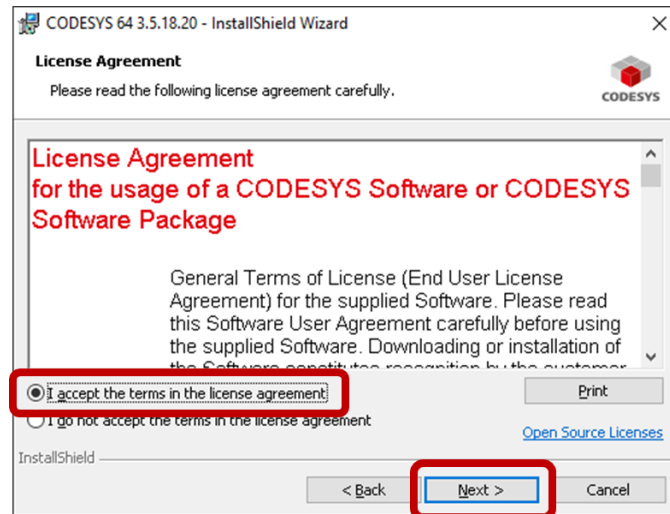
Like in case of CODESYS Installer, prerequisites shall be installed (if needed).



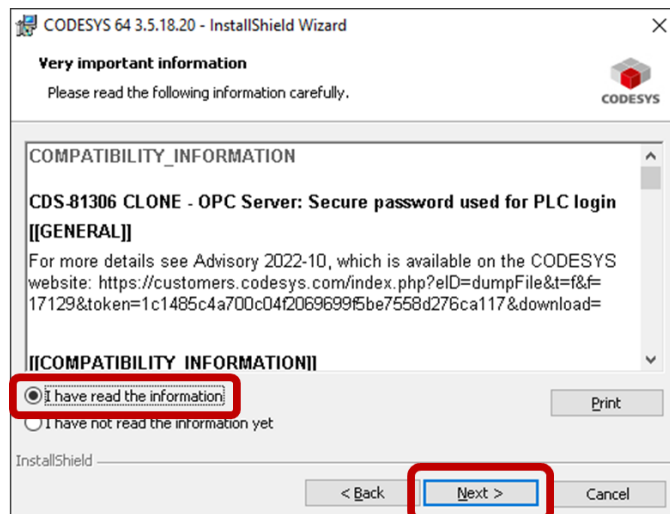
If all prerequisites are available, the installation can be started by clicking **Next**.



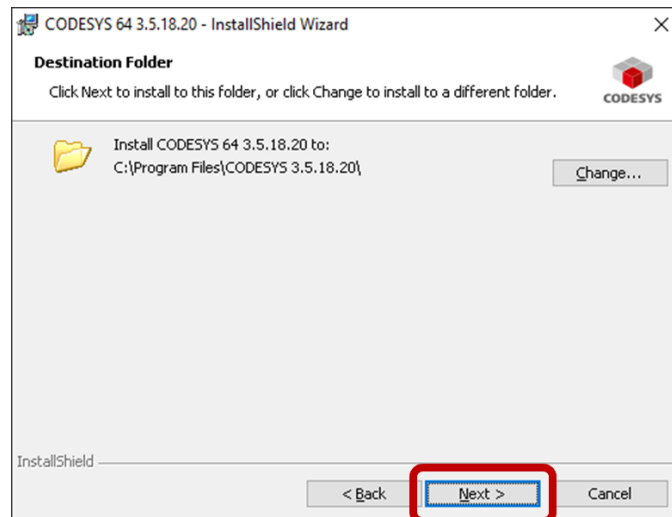
Accept the license agreement and click **Next**.



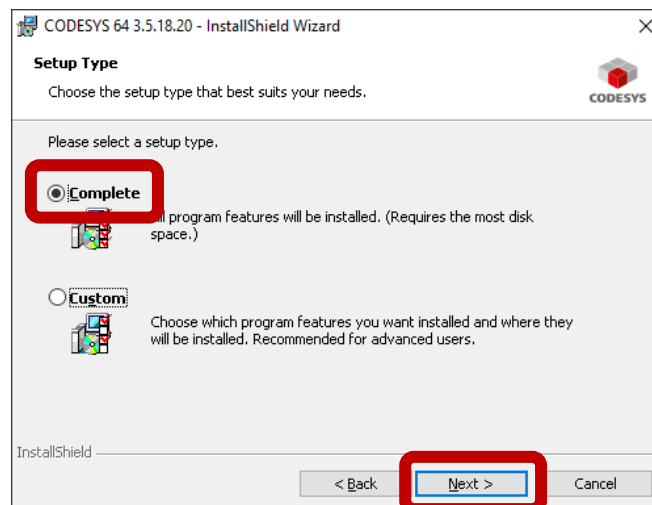
Confirm that you have read all important information (*even if you have not*) and click **Next**.



Choose the installation folder (it is suggested to use the default one) and click **Next**.



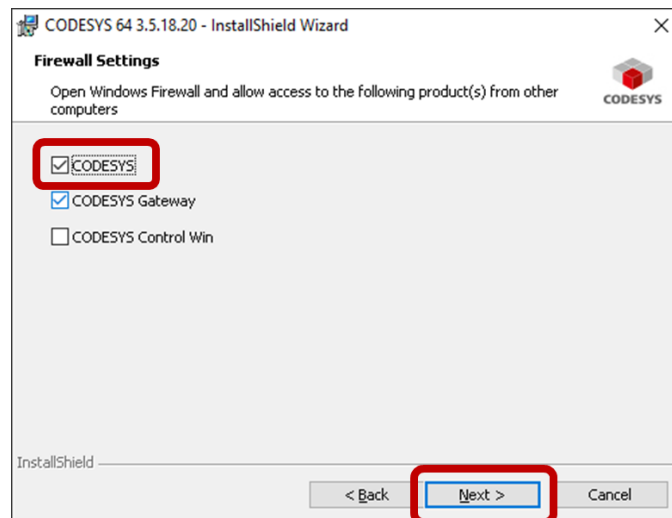
Choose the **Complete** option to install all required components and click **Next**.



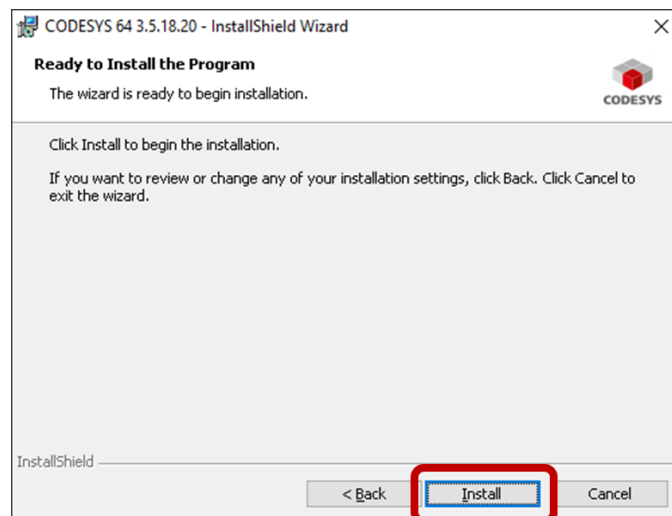
Choose which applications you would like to allow access the network.

- **CODESYS** – strongly recommended to access online help
- *CODESYS Gateway* – recommended if you would like to access a softPLC running on an other PC or on a Raspberry PI from your own PC
- CODESYS Control Win – not recommended (except you would like to access the softPLC running on your PC from other devices)

If the CODESYS Control Win softPLC is allowed to be accessed from other computers, it will be accessed form all other computers on the same subnet. If you share a subnet with your classmates (e.g. in a dormitory or a shared apartment), you might upload an application to a softPLC running the PC of your classmate by mistake.

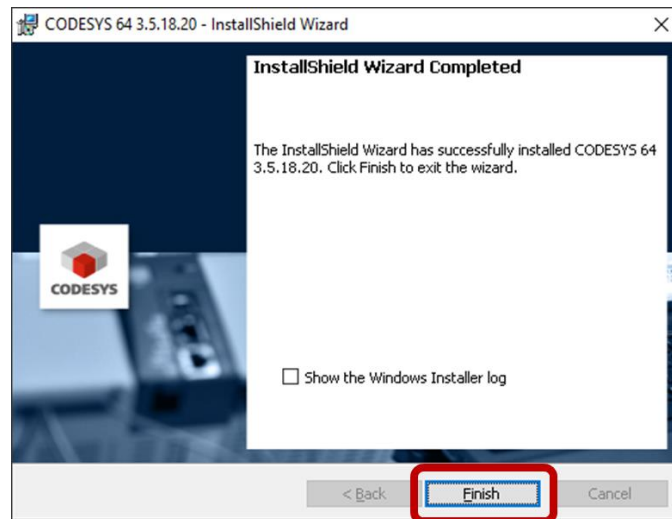


Click **Install** to start the setup procedure.

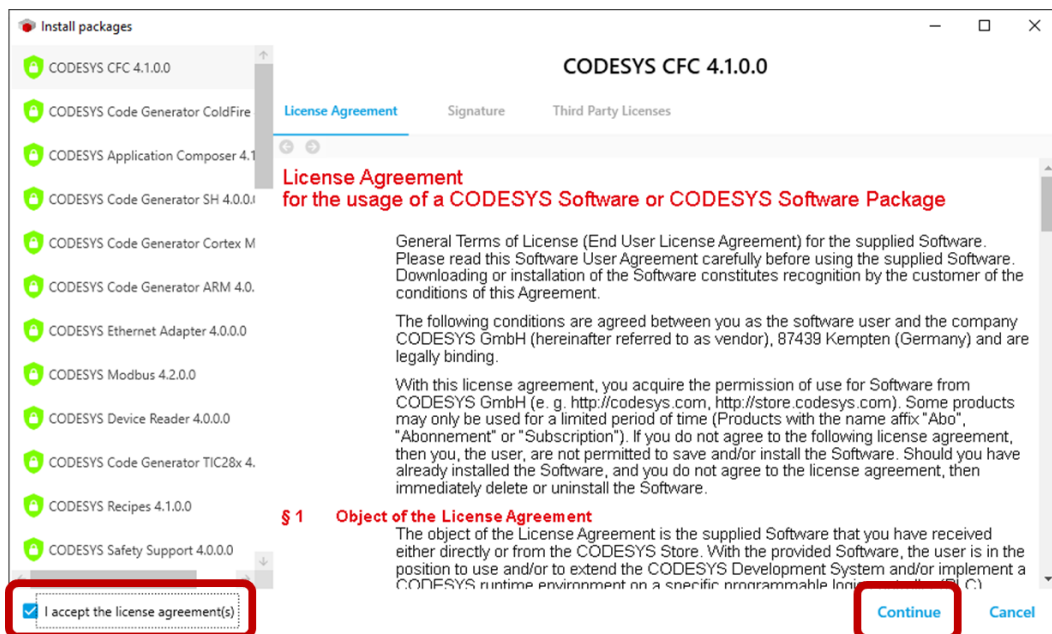


Installation might take a long time. Be patient and do not terminate installation even if it seems to halt.

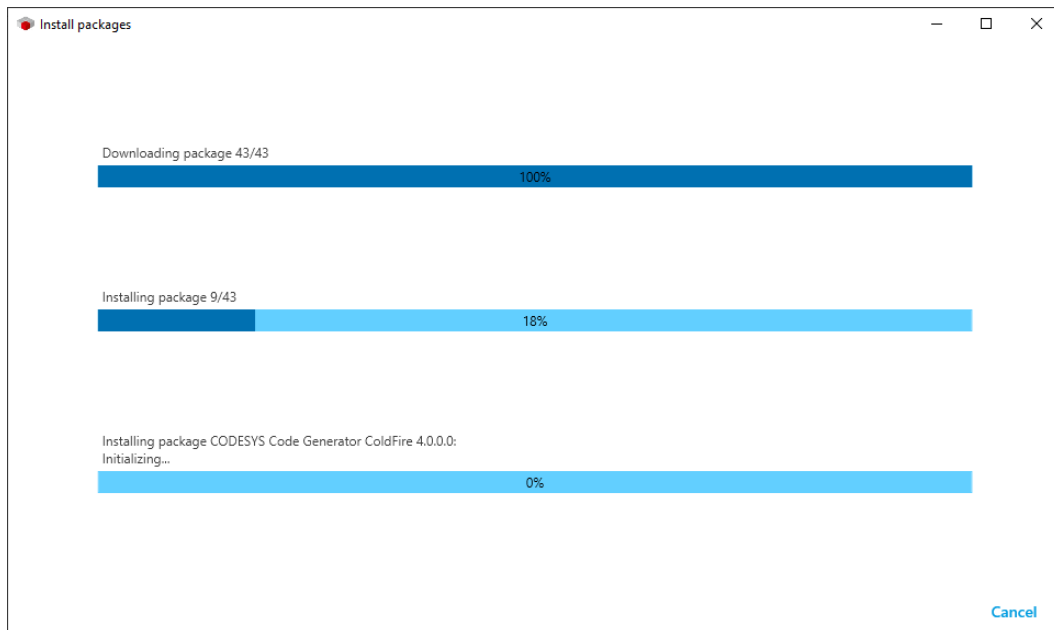
After the installation has terminated, click **Finish**.



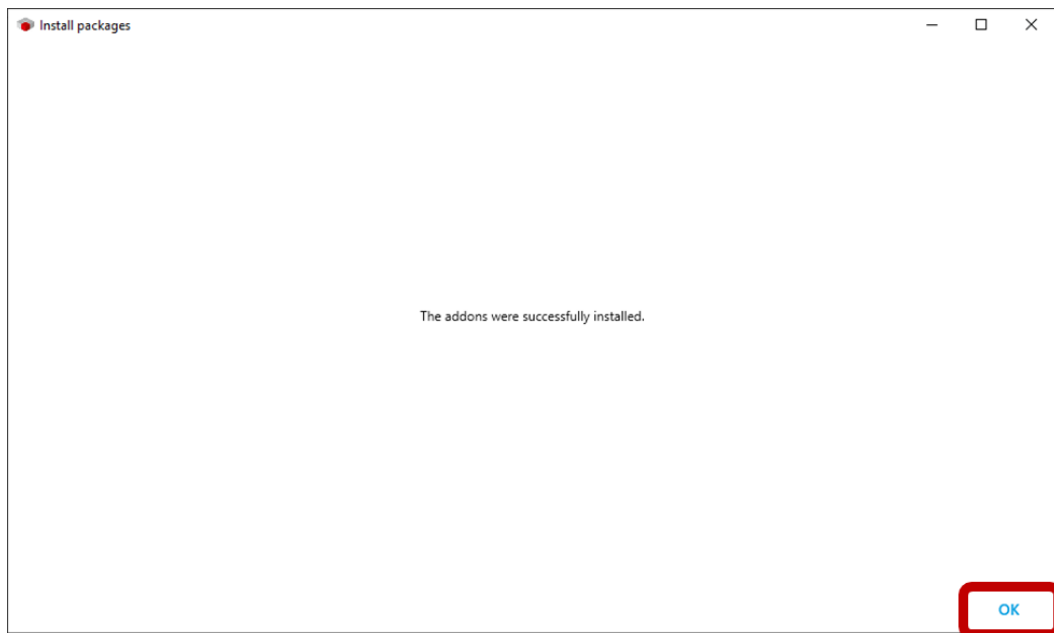
Then the installation of required add-on packages is started. At first, **accept the license agreements** by checking the checkbox at the bottom, then click **Continue**.



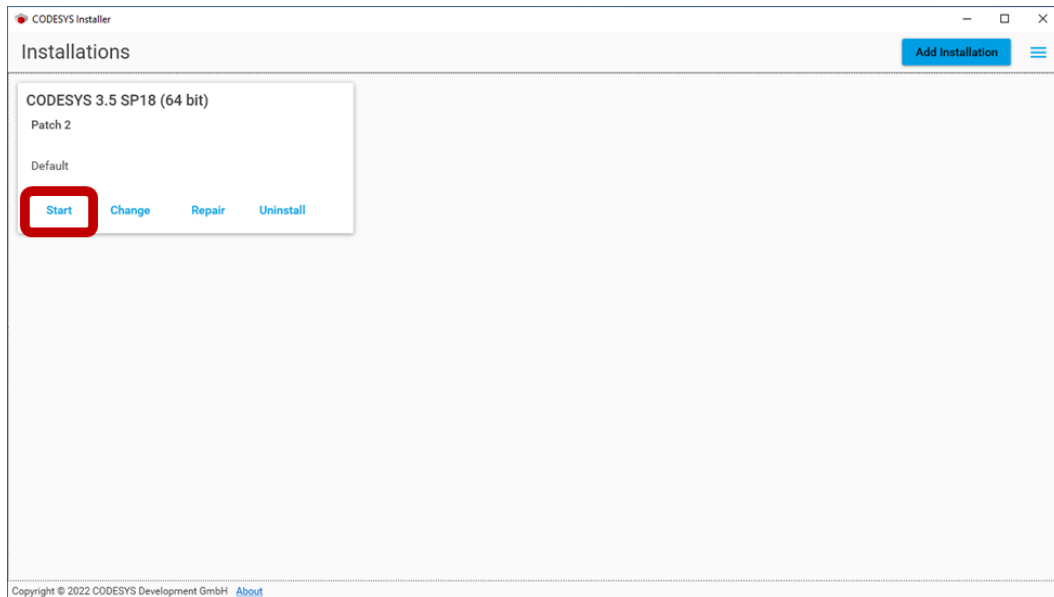
You can follow the installation of the add-ons in the dialog.



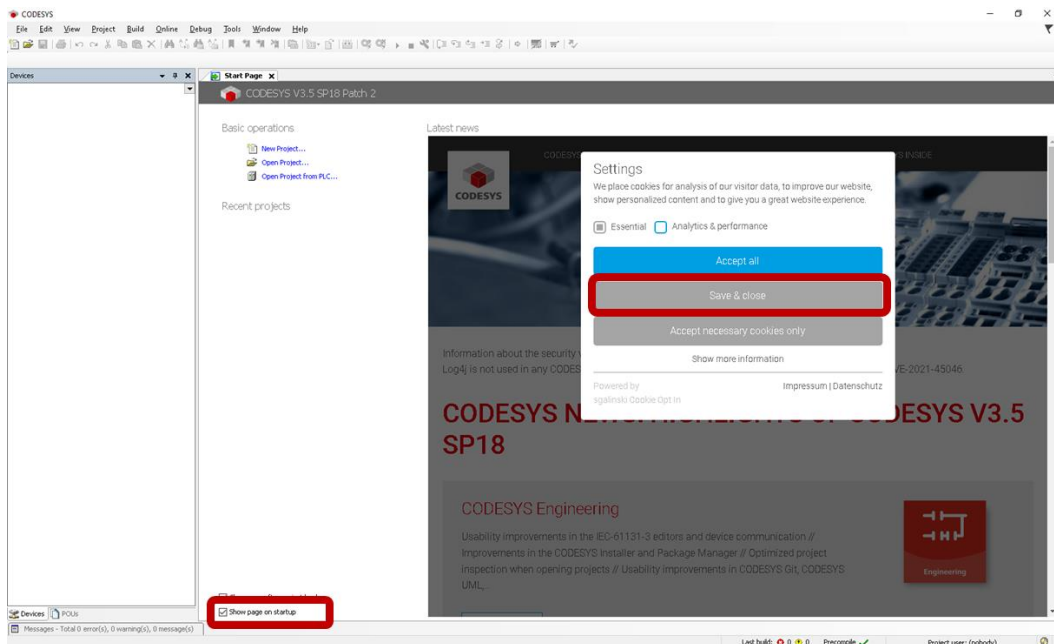
After installing the packages, click **OK**.



The window of CODESYS Installer displays the freshly installed version of CODESYS in the list of available installations. It is recommended to open the development environment by clicking **Start**.

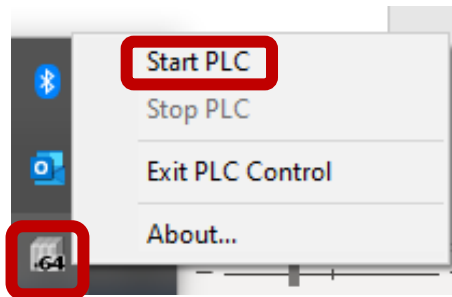


The main window of CODESYS shows news about the environment as a web page by default. To display it, cookie setting shall be set by clicking **Save & Close**. If you'd prefer an empty page at startup, you shall remove the tick from the **Show page on startup** checkbox.

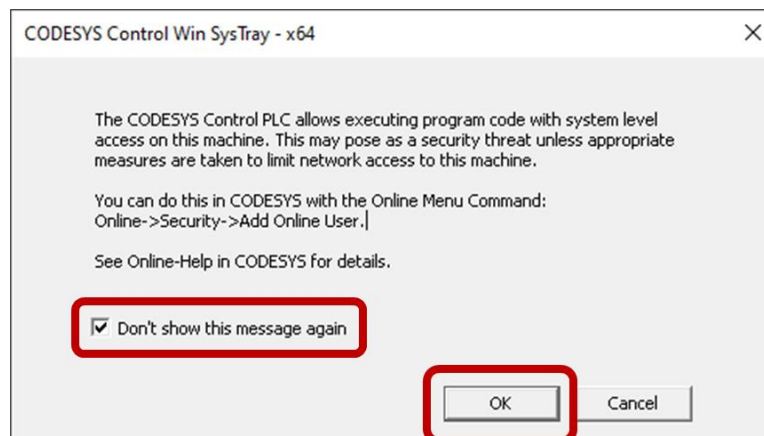


5. SET UP THE SOFTPLC!

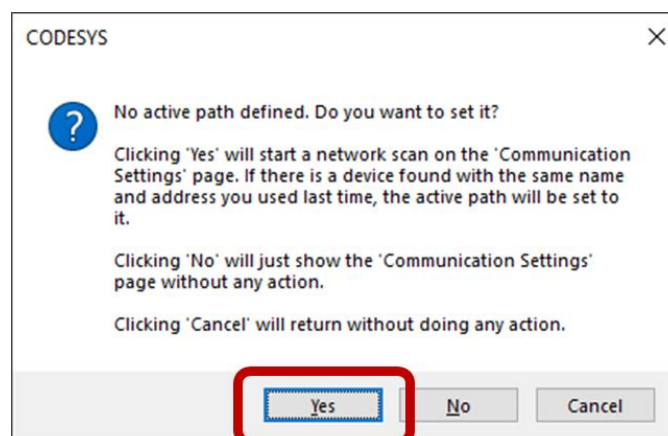
Start the softPLC by right-clicking on its taskbar icon and choosing **Start PLC**.



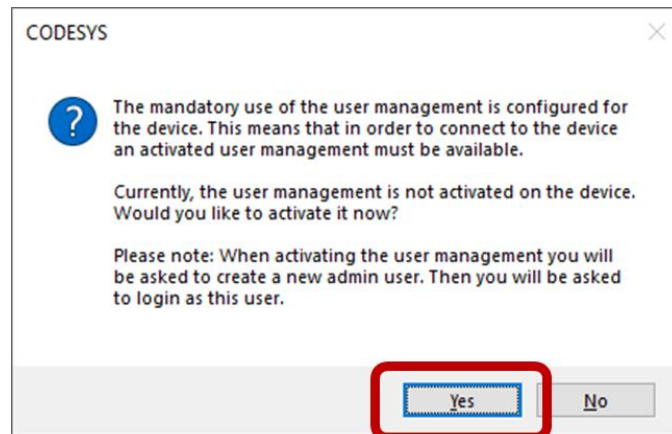
If you would like to suppress the message about security risks during future starts, you shall check the **Don't show this message again** checkbox and click **OK**.



Connect to the softPLC in CODESYS (**Online > Login** or **Alt+F8**) and set the active path by clicking **Yes**.

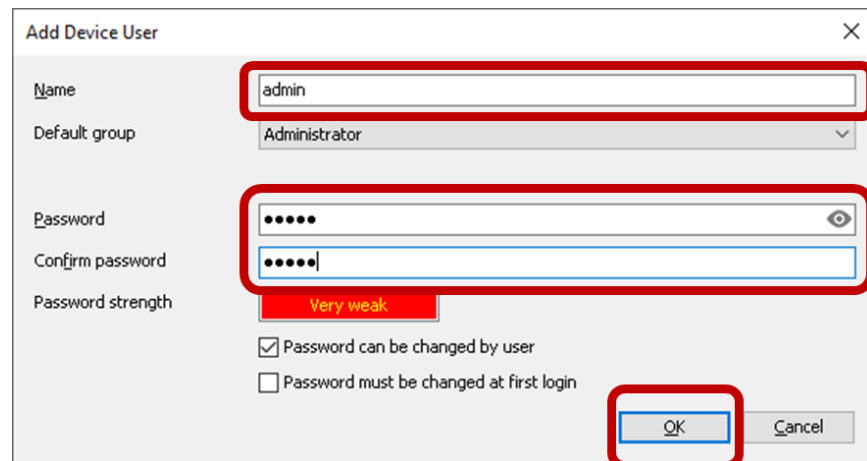


As no user management is configured for the softPLC you've installed, it should be set. Click **Yes** to do so.

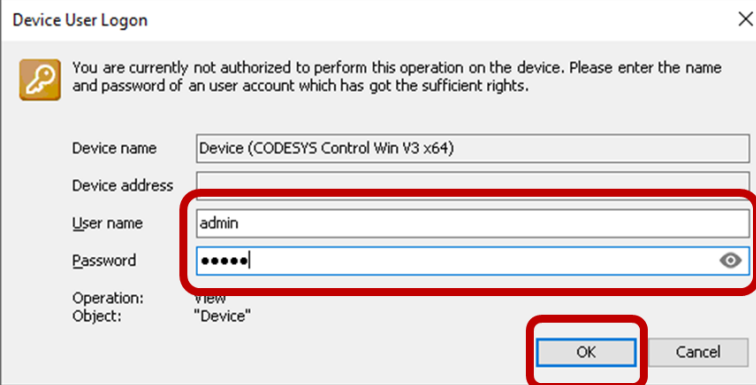


Then you shall enter the user name and password for the softPLC.

If you forget the user name and the password, there is no way to restore them. You shall choose a user name and password you can easily remember – it is advised to use `admin` both for user name and password.



After setting the user name and password, you are requested to log in typing them and clicking **OK**.



The 'Device User Logon' dialog box contains a message: 'You are currently not authorized to perform this operation on the device. Please enter the name and password of an user account which has got the sufficient rights.' It includes fields for 'Device name' (pre-filled with 'Device (CODESYS Control Win V3 x64)'), 'Device address', 'User name' (containing 'admin'), and 'Password' (masked with dots). Below these is a section for 'Operation: view' and 'Object: "Device"'. At the bottom right are 'OK' and 'Cancel' buttons. A red rectangle highlights the 'User name' and 'Password' fields, and another red rectangle highlights the 'OK' button.

After a successful login, the Device pane might show a green dot at the bottom-right corner of the PLC icon and the name of the softPLC (name of the PC it is running on by default) below.

