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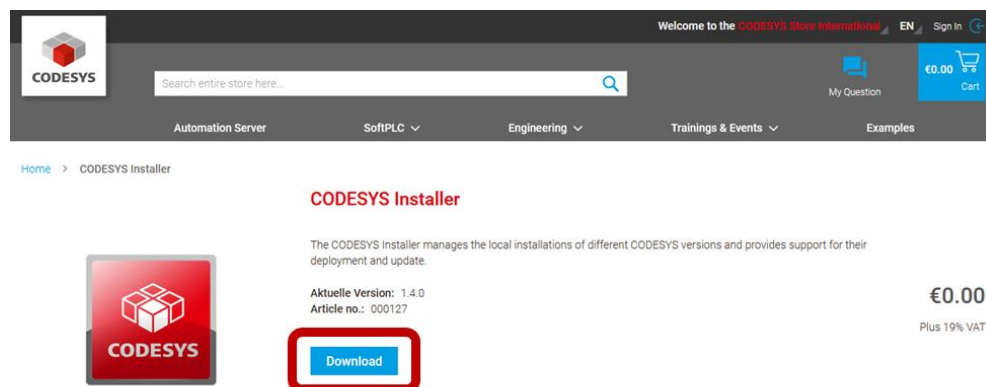
If you have already registered a CODESYS Store account, log in using your email address and password. Otherwise, click the Create Account button.

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

After loggin 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.

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.
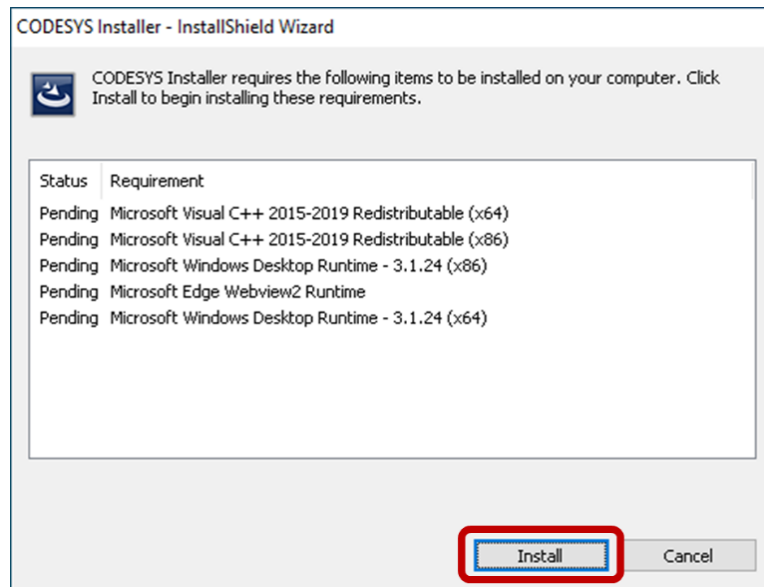
If all required components are available, you can start the setup procedure by clicking **Next**.
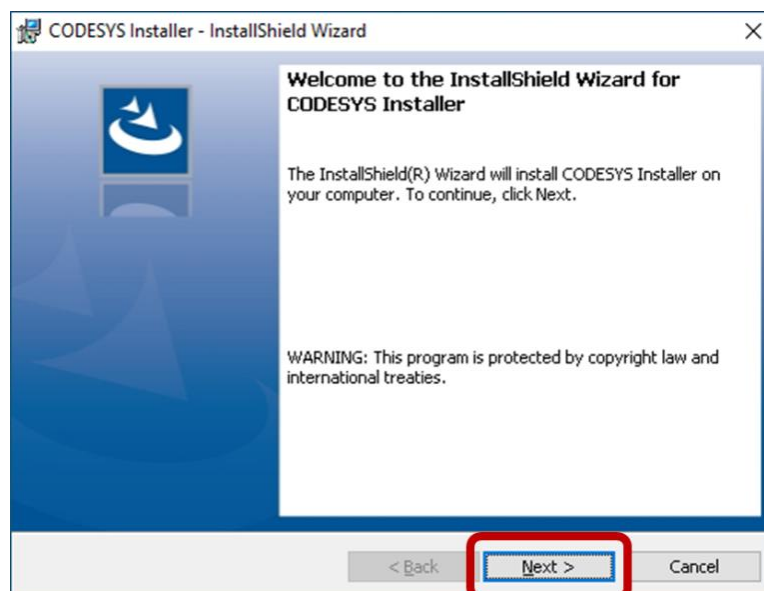
Accept the license agreement and click **Next**.

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

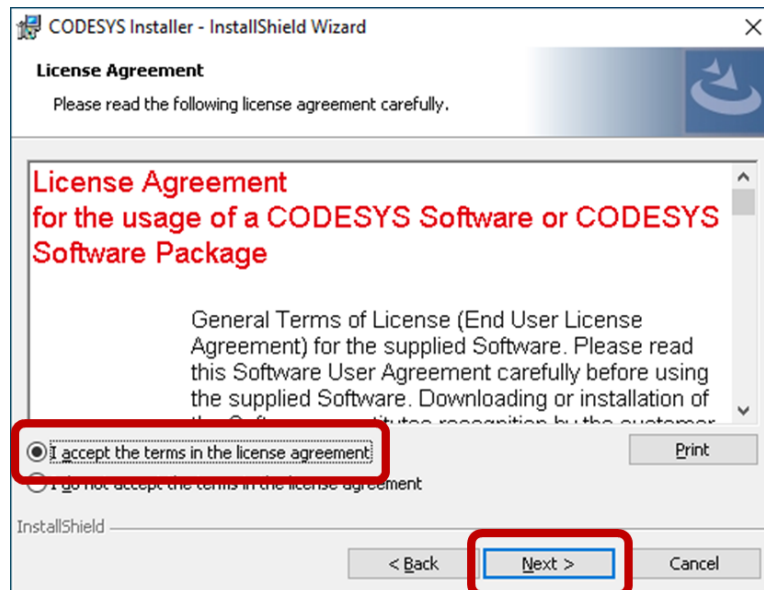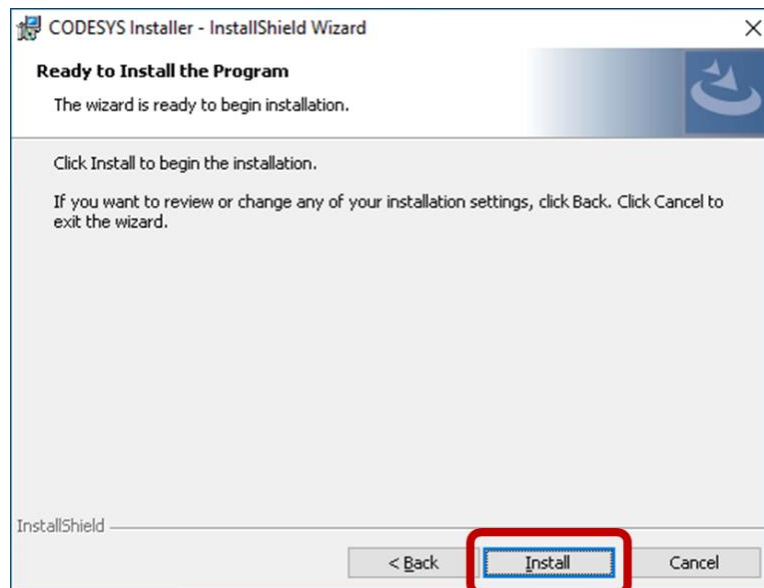When the installation is completed, leave the **Launch CODESYS Installer** box checked and click **Finish.**
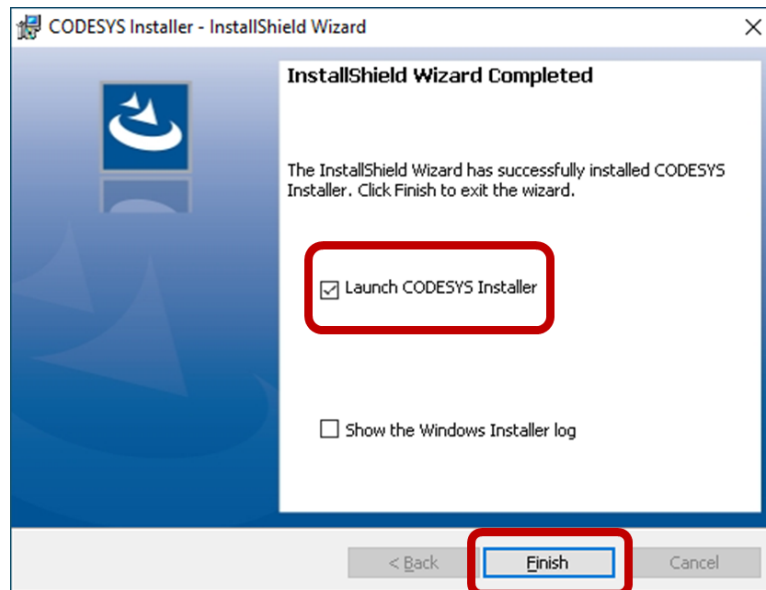
4. INSTALL THE DEVELOPMENT ENVIRONMENT

In the CODESYS Installer window click the **Add Installation** button at the top right corner.
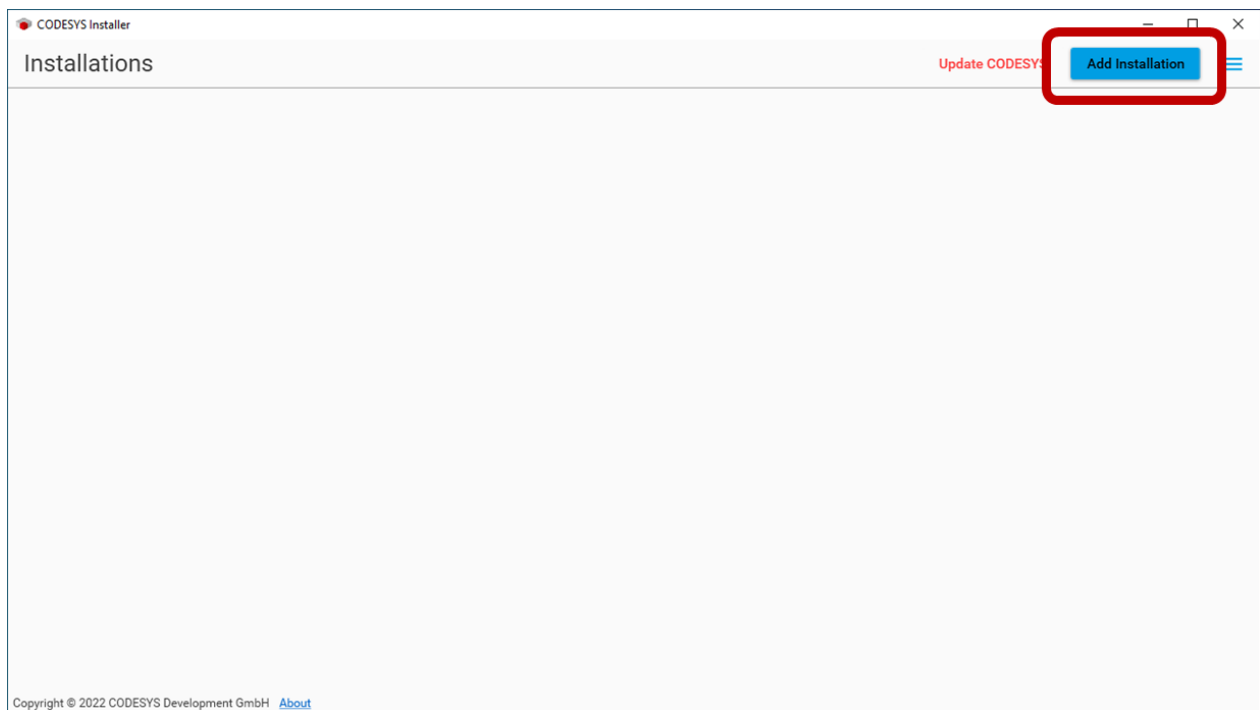
Take extra care to select the following options in the dialog displayed.

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

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**.

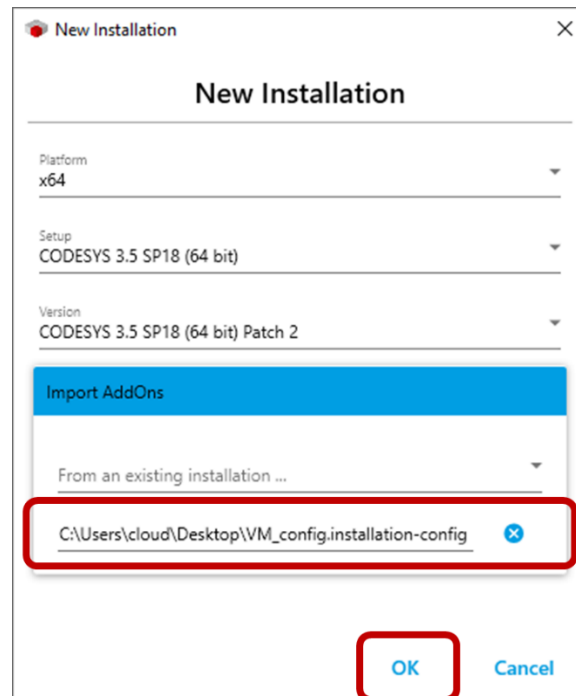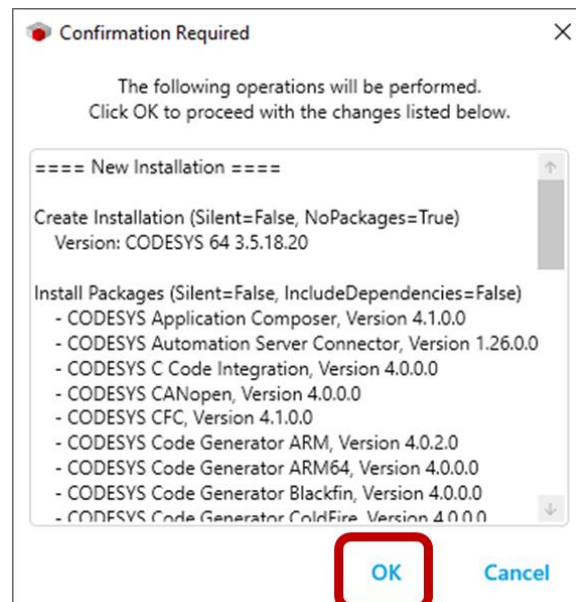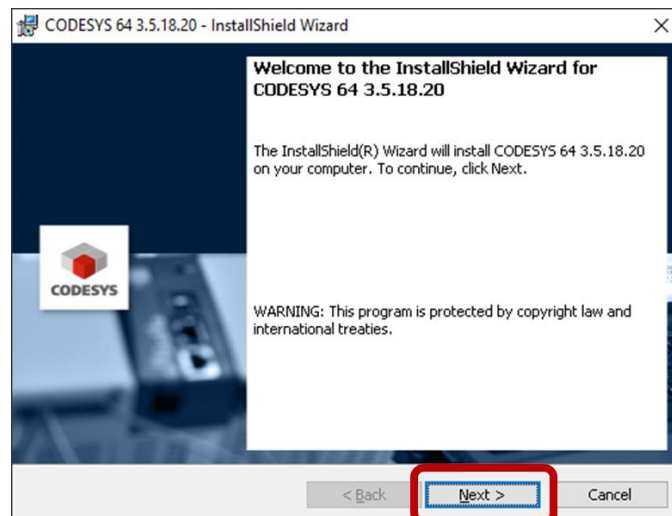Like in case of CODESYS Installer, prerequisites shall be installed (if needed).
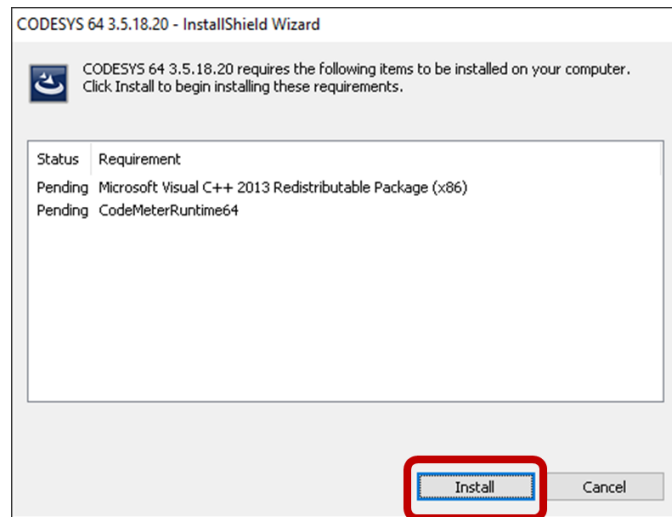
If all prerequisites are available, the installation can be started by clicking **Next**.

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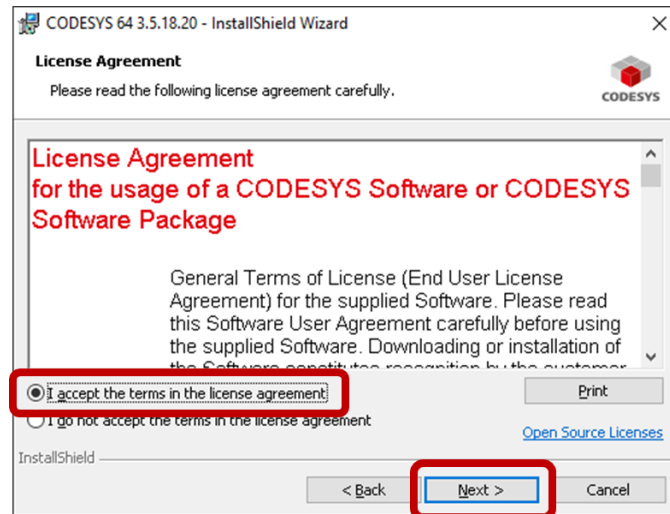
Confirm that you have read all important information *(even if you have not)* and click **Next**.

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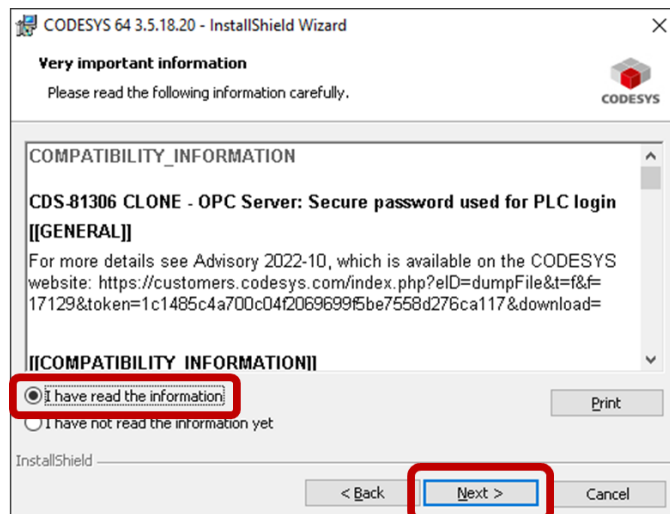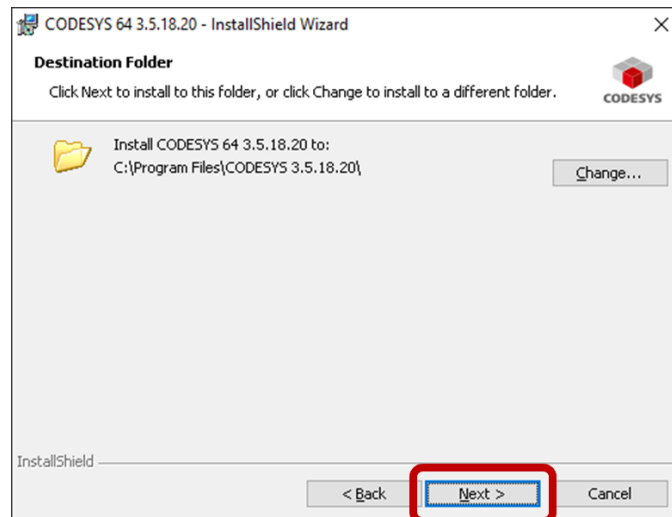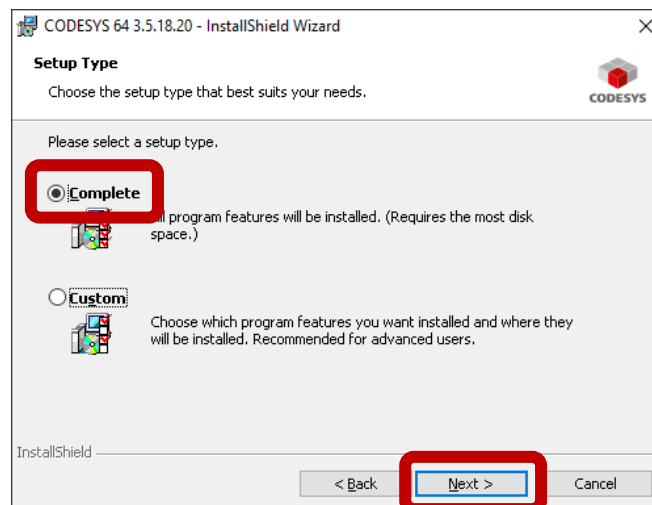
- **CODESYS** – strongly recommended to access online help
- *CODESYS Gateway* – recommended if you would like to access a softPLC running on an other PC or on a Raspberry PI from your own PC
- CODESYS Control Win – not recommended (except you would like to access the softPLC running on your PC from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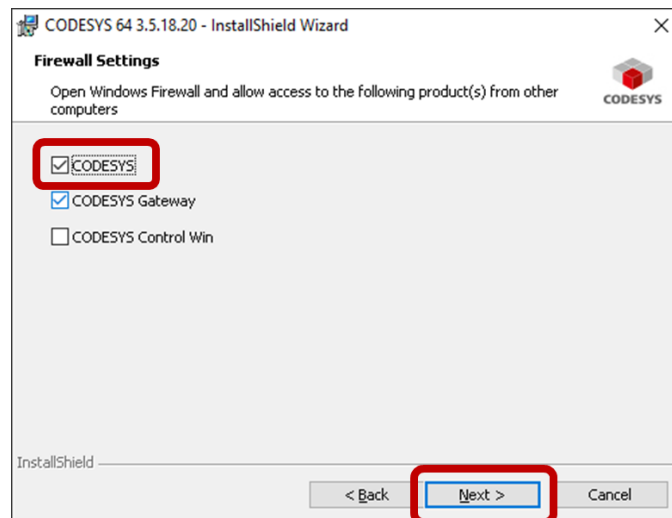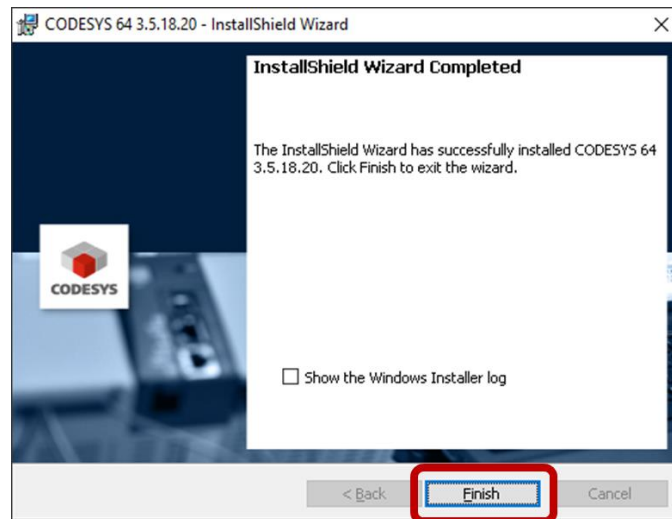

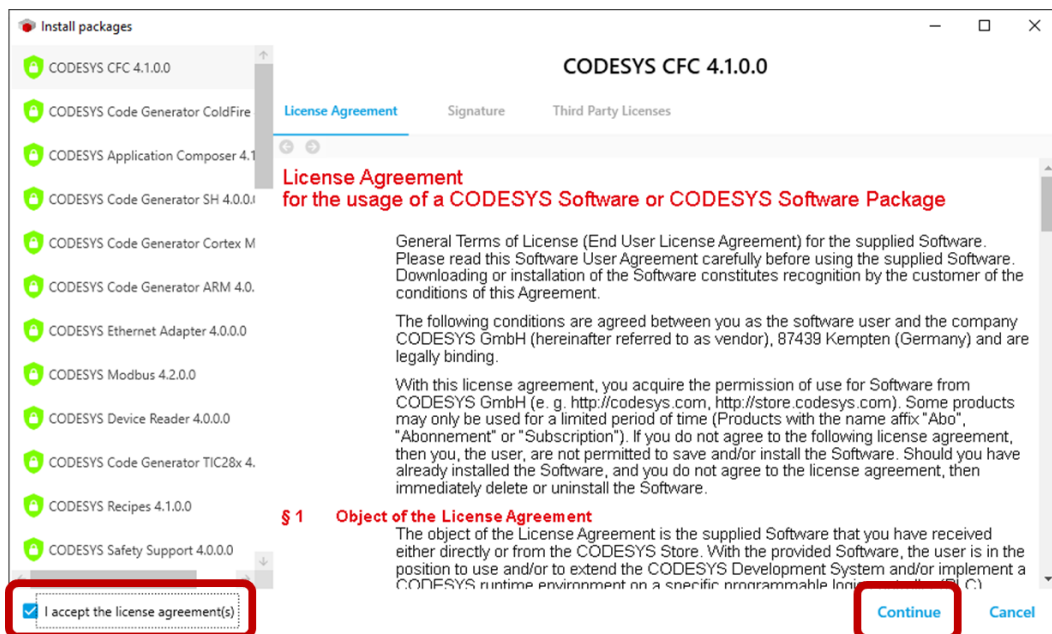Click **Install** to start the setup procedure.
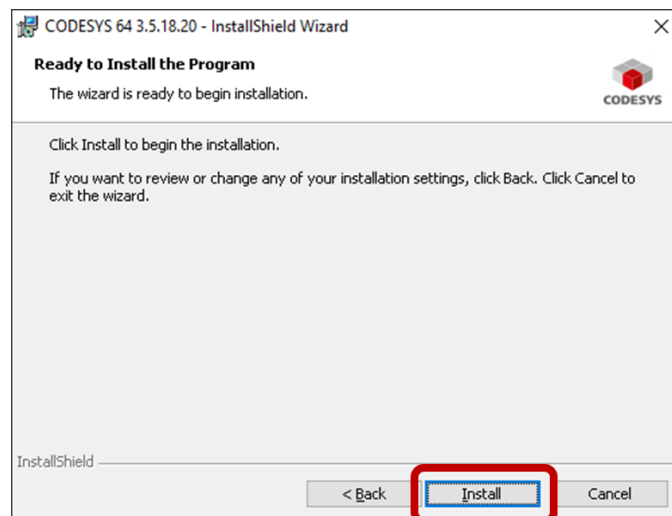
Installation might take a long time. Be patient and do not terminate installation even if it seems to halt.
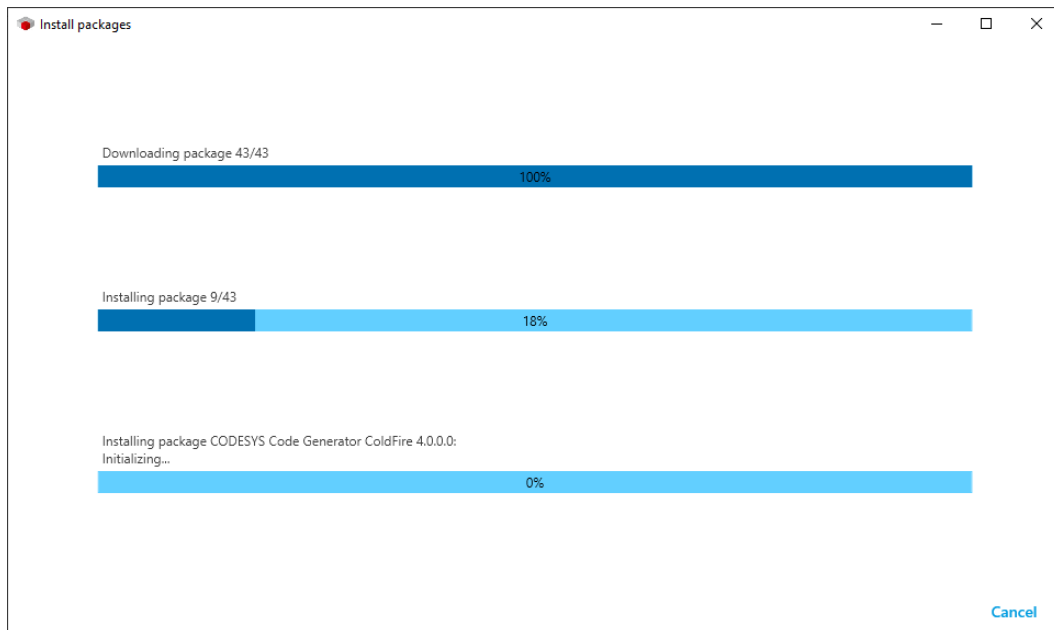
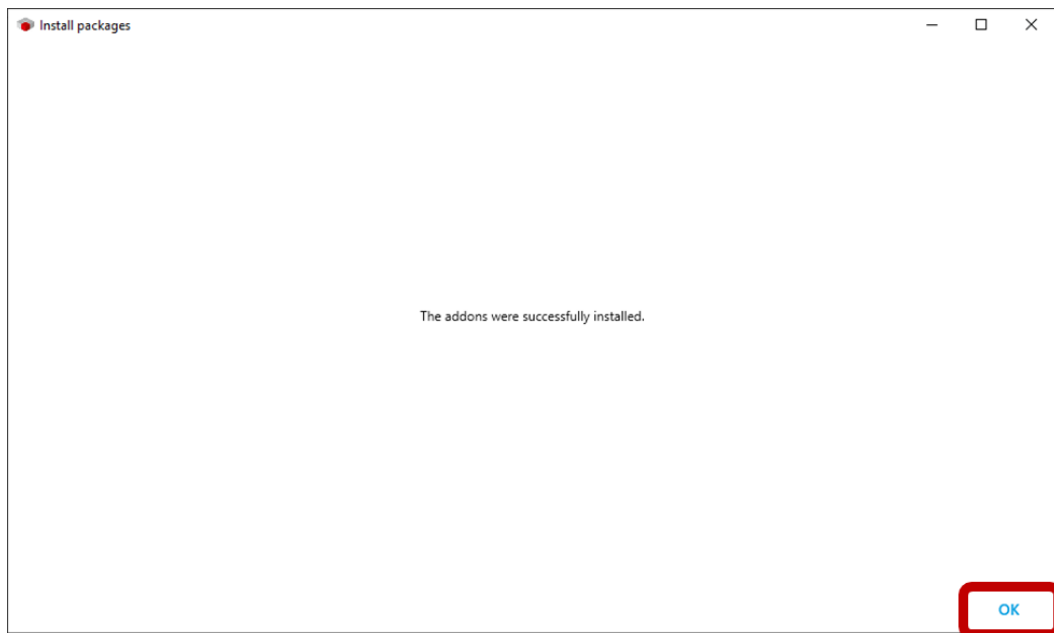After the installation has terminated, click **Finish.**

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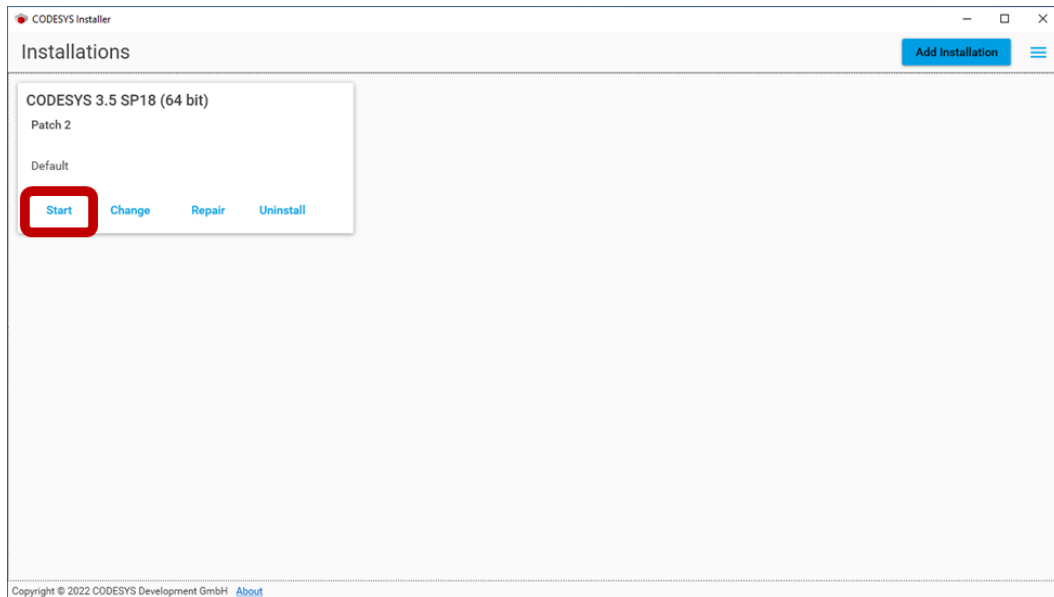
You can follow the installation of the add-ons in the dialog.

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 clickin **Start**.
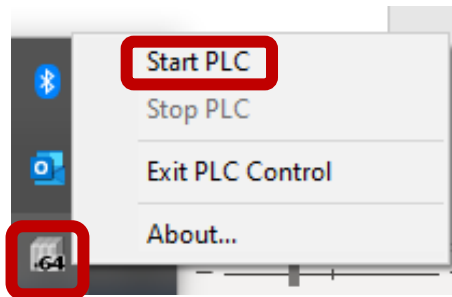

The main window of CODESYS shows news about the environment as a web page by default. To display it, cookie setting shall be set by clicking **Save & Close**. If you'd prefer an empty page at startup, you shall remove the tick from the **Show page on startup** checkbox.
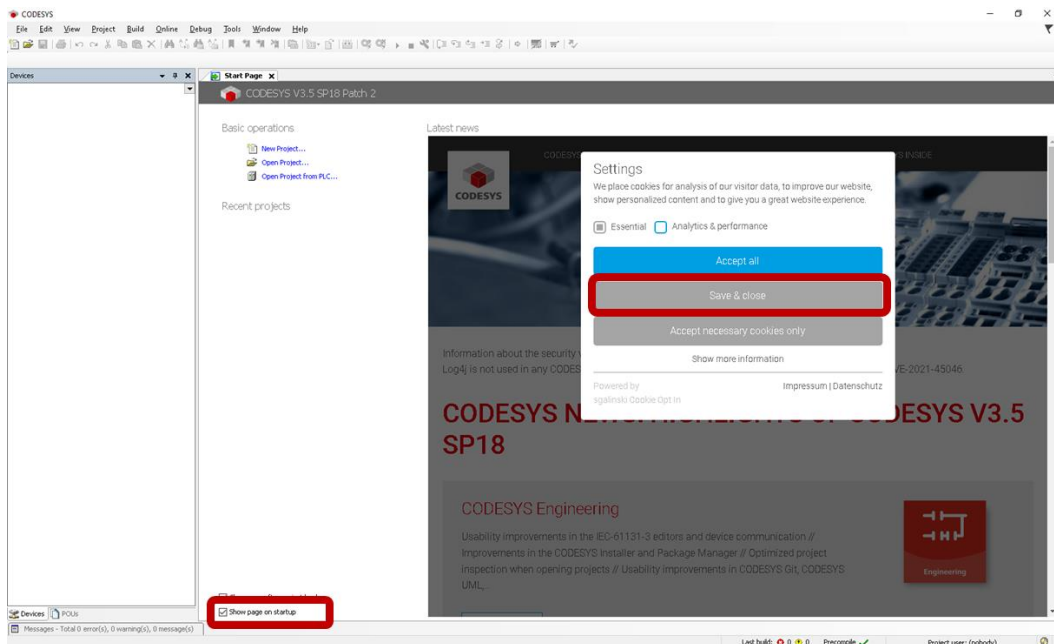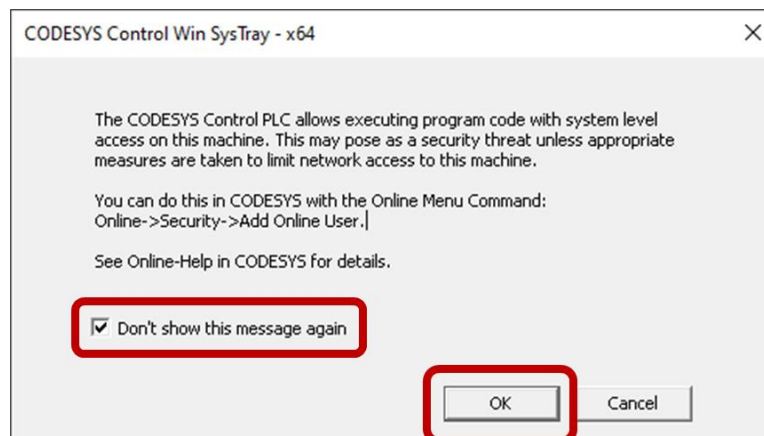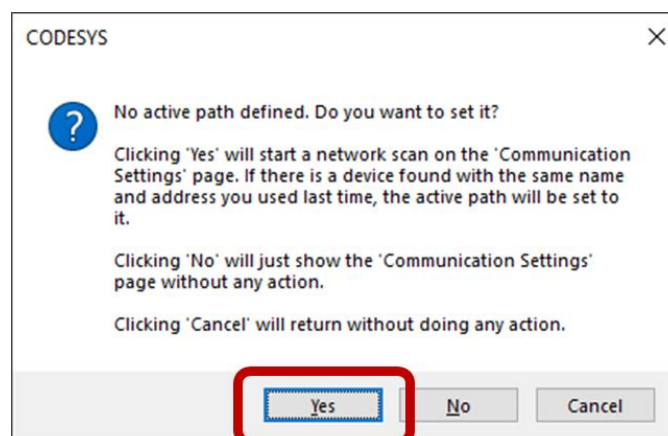
5. SET UP THE SOFTPLC!

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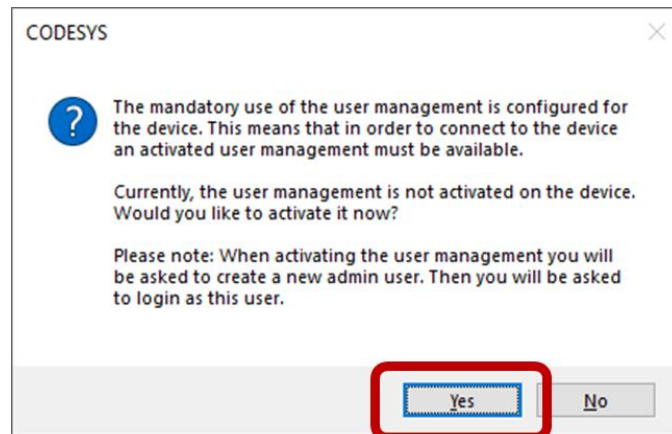

If you would like to suppress the message about security risks during future starts, you shall check the **Don't show this message again** checkbox and click **OK**.

Connect to the softPLC in CODESYS (**Online > Login** or Alt+F8) and set the active path by clicking **Yes**.
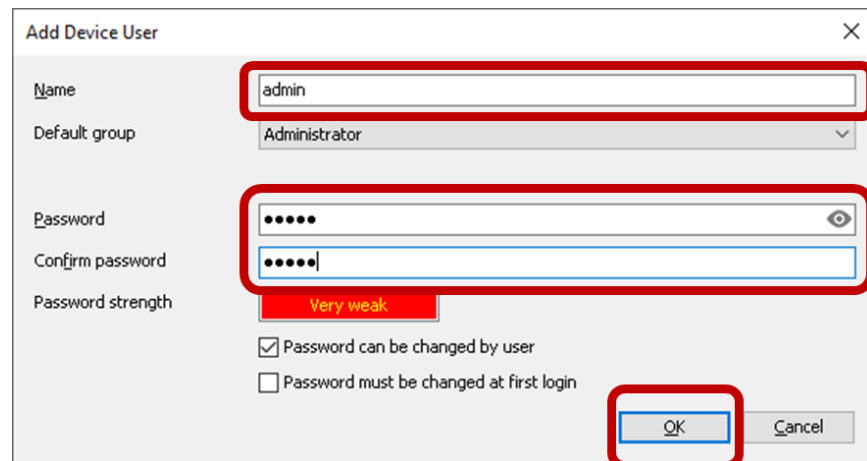
As no user management is configured for the softPLC you've installed, it should be set. Click **Yes** to do so.
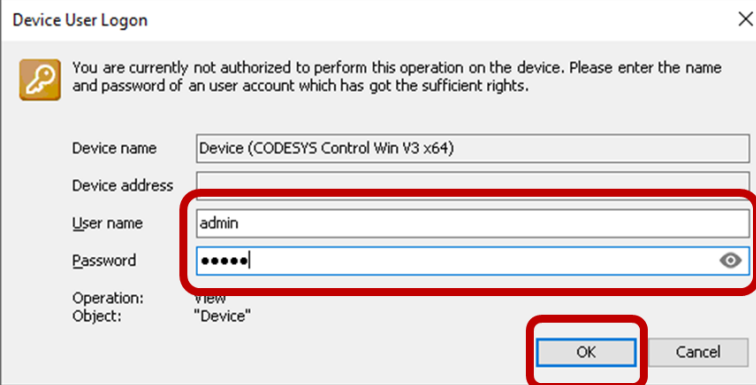

Then you shall enter the user name and password for the softPLC.

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**.

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.