CODESYS Licenses

PLC500, PLC500ED, PLC500MC
PLC410

Application Note

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PLC410, PLC500, PLC500ED, PLC500MC

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1 INTRODUCTION

This **Application Note** aims to assist in the installation of **SL** (Single Licenses) licenses on PLC models PLC410, PLC500, PLC500ED, and PLC500MC. It should be noted that the provided data may undergo slight changes due to the ongoing development and updates of products and libraries.

Licenses purchased through the CODESYS Store can be activated directly on the PLC via **SoftContainer** or used with **USB Dongles** (also purchased from the CODESYS Store). With the **SoftContainer**, the license is directly linked to the PLC, while with the **USB Dongle** option, the license remains active on the device connected with the dongle.

NOTE!

The PLC410 model does not feature a USB OTG interface, making it incompatible with USB dongles. For this model, use the **SoftContainer** option for licensing.

1.1 ADVANTAGES AND DISADVANTAGES OF SOFTCONTAINER AND USB DONGLE

Below is a table showing the main advantages and disadvantages of using each licensing mode.

Software License Container (SoftContainer)	CODESYS Key (USB Dongle)
Advantages	**Advantages**
■ No additional hardware required	■ License valid regardless of device type
■ No extra costs	■ Easy transfer of license to another device
■ No physical delivery needed	■ License remains valid even if device fails
■ Unlimited number of licenses storable	■ Simple license granting and revocation process
■ License usable immediately	■ Nearly unlimited number of licenses storable (approx. 4,000)
	■ Also usable for security tasks, such as project encryption
Disadvantages	**Disadvantages**
■ License cannot be transferred	■ Additional hardware and USB slot required
■ License lost if device fails	■ Additional costs for USB dongle, shipping, and customs fees (if applicable)
	■ Wait time until dongle delivery

1.2 LIST OF PROTOCOLS AND FUNCTIONALITIES FOR LICENSING

Some specific CODESYS protocols and functionalities operate in a time-limited demo mode, usually between 30 minutes and 2 hours. After this period, it is necessary to download the application again or restart the device to reactivate the demo mode.

The following is a list of protocols and functionalities that run in demo mode and can be activated via SL:

- CODESYS **CANopen Device** SL
- CODESYS **OPC UA Server** SL
- CODESYS **J1939 Manager** SL
- CODESYS **WebVisu** SL

2 ACQUISITIONS

The licenses of type **SL** (*Single License*) and USB Dongles (**CODESYS Key**) must be purchased directly from the CODESYS Store through a user account.

2.1 PURCHASE OF LICENSES

The following steps illustrate the purchase of an **SL** license directly on the CODESYS Store website.

1 - Create an account and log in to the CODESYS Store.

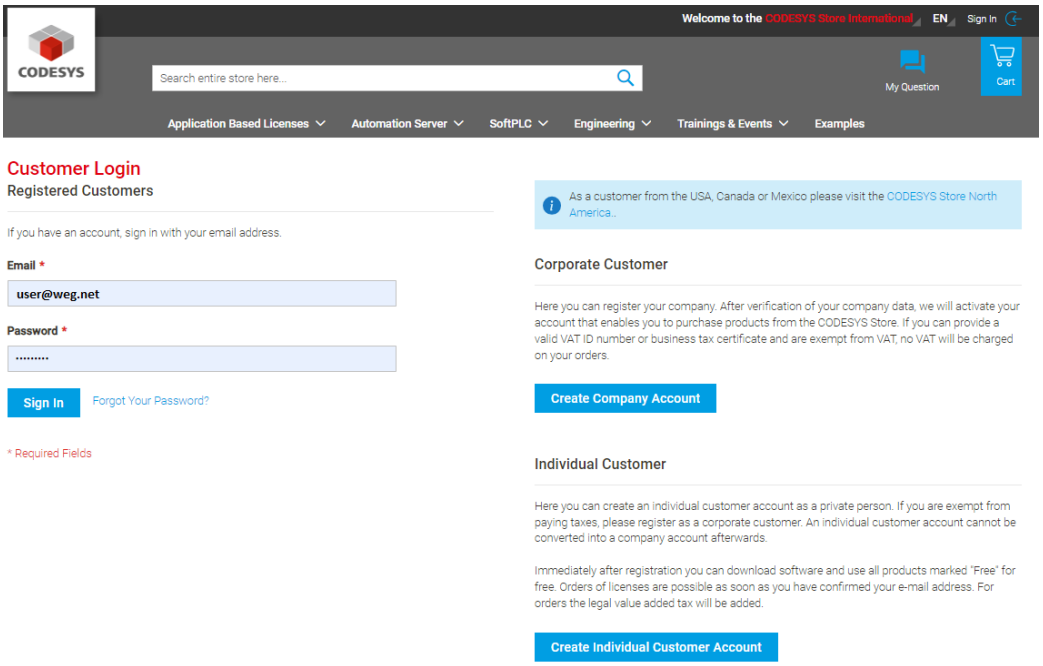

Figure 2.1: *Login to the CODESYS Store*

2 - Select and purchase the desired license.

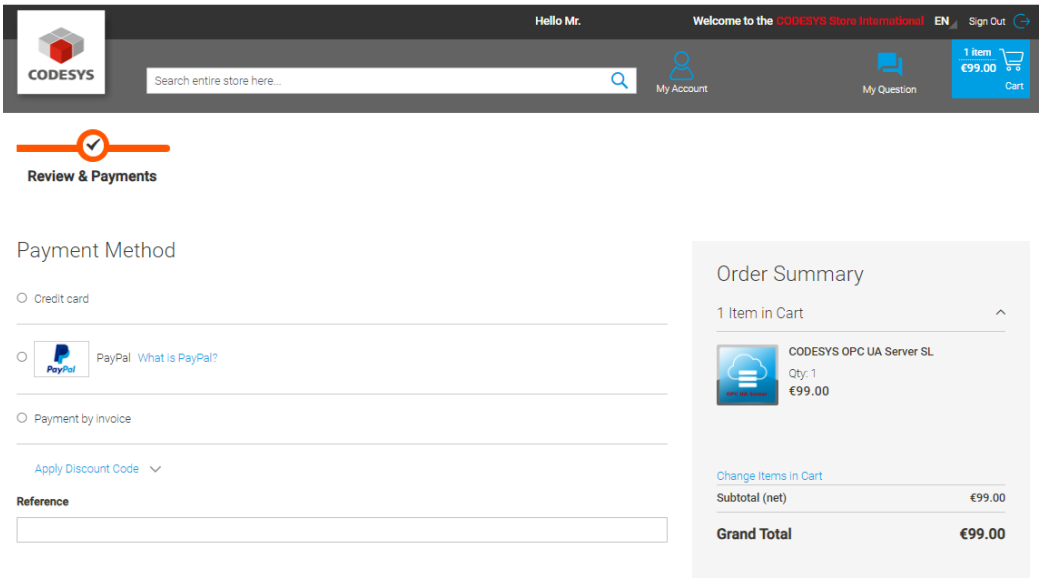

Figure 2.2: *License Purchase*

3 - After payment confirmation, the licenses will be sent by CODESYS and will be available for the user in the **My Licenses** tab. The **Ticket** is the code used to activate the license on the device.

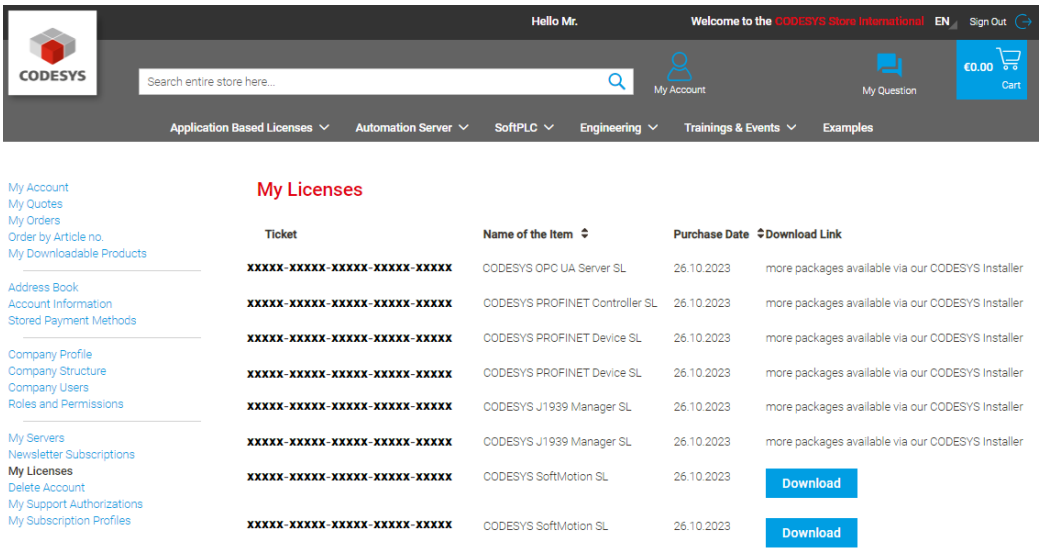

Figure 2.3: *My Licenses Tab*

2.2 PURCHASE OF DONGLES

The following steps illustrate the purchase of a USB Dongle (**CODESYS Key**) through the CODESYS Store website.

1 - Create an account and log in to the CODESYS Store.

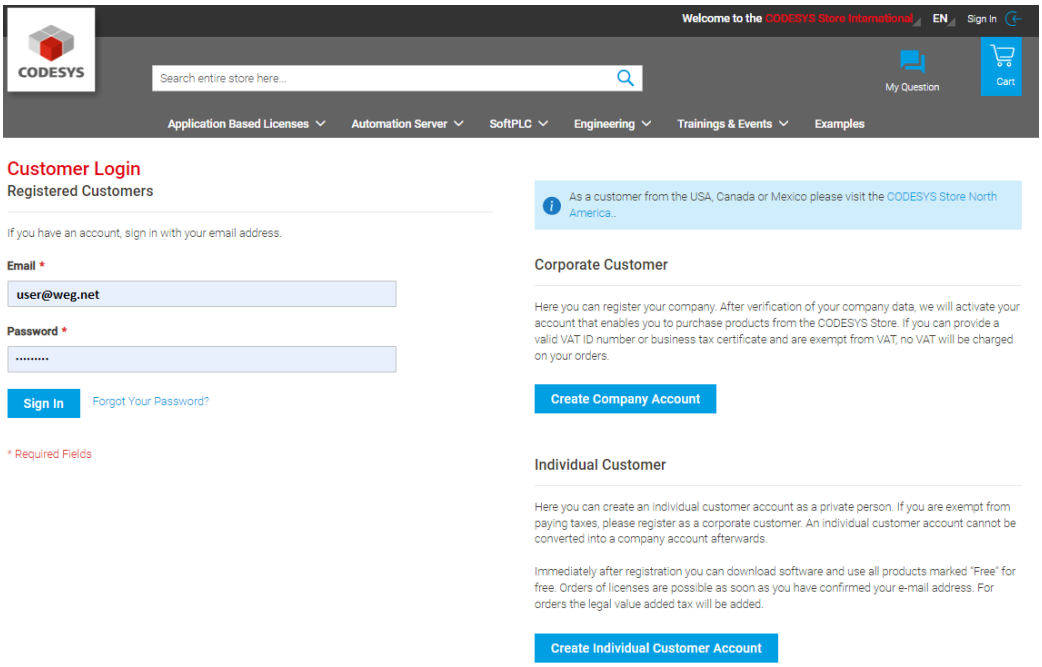

Figure 2.4: *Login to the CODESYS Store*

2 - Select and purchase the USB Dongle (**CODESYS Key**), correctly filling in the delivery address.

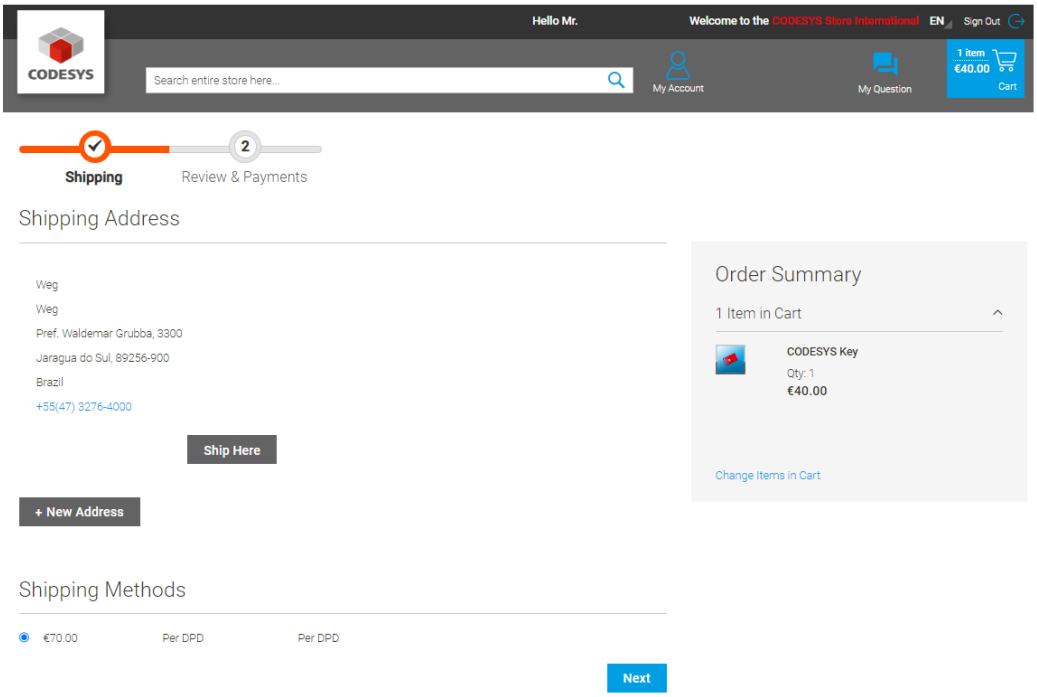

Figure 2.5: *USB Dongle Purchase*

3 - After payment confirmation, the USB Dongle will be sent to the address specified during the purchase.

Figure 2.6: *USB Dongle (CODESYS Key)*

NOTE!

For proper functioning, the USB dongle (CODESYS Key) must be connected to the USB OTG interface (USB1) of the PLC models PLC500, PLC500ED, and PLC500MC.

3 INSTALLATION OF THE LICENSE VIA SOFTCONTAINER

When using the **SoftContainer** option, licenses are installed directly on the PLC, eliminating the need for a USB Dongle (CODESYS Key).

To install a license via **SoftContainer**, follow the steps below:

1 - With the desired device connected, open the CODESYS software and navigate to the **Tools** → **License Manager** menu.

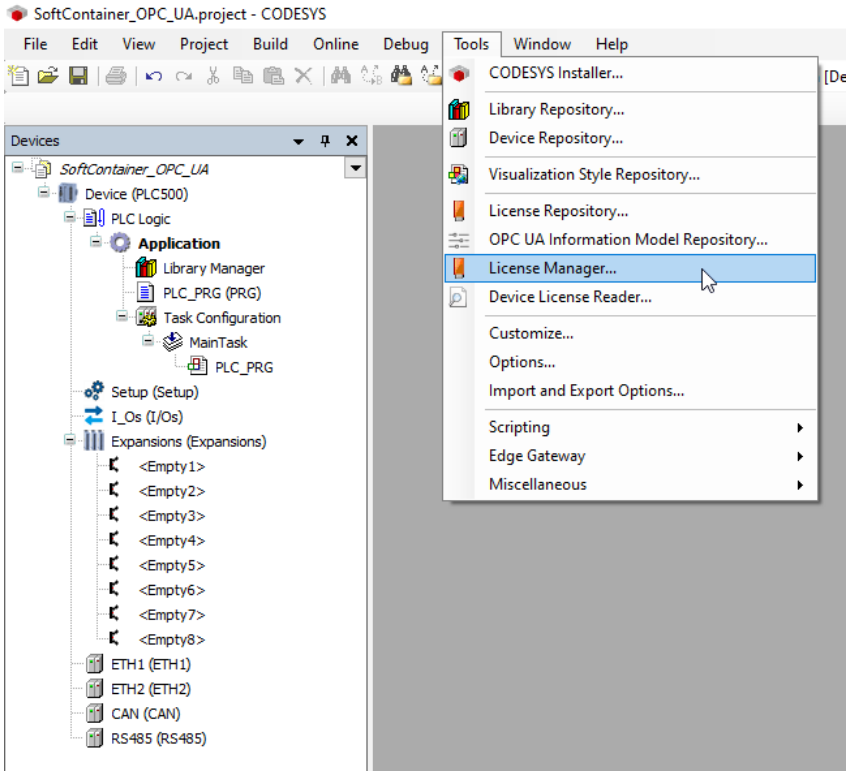

Figure 3.1: *Open* ***License Manager...***

3 - Select **Device** and **Soft container** to install the license directly on the PLC.

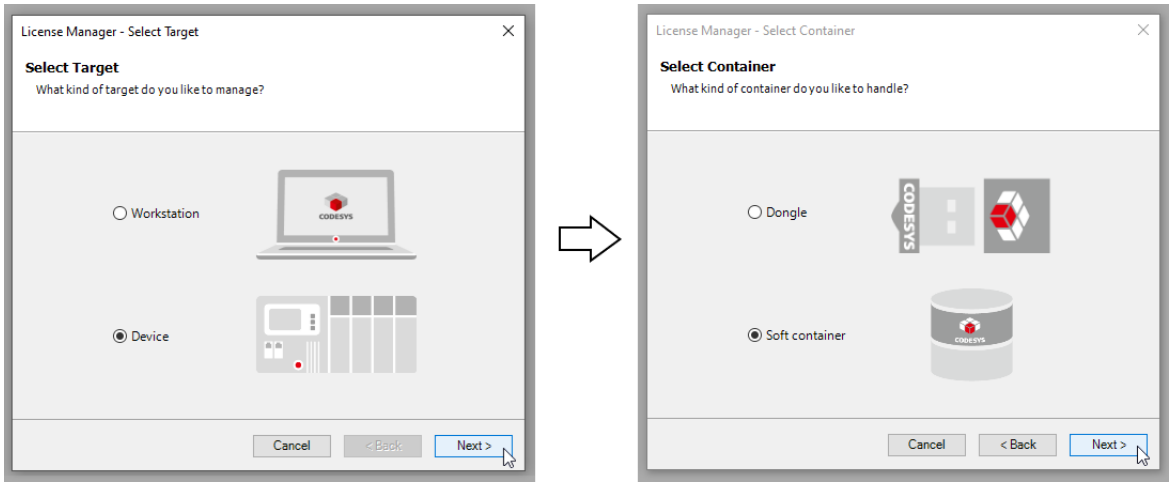

Figure 3.2: *SoftContainer for PLC licensing*

ATTENTION!

For licensing a **PLC**, ensure that you select the **Device** option.

4 - Select the device where you want to activate the license and click **OK**.

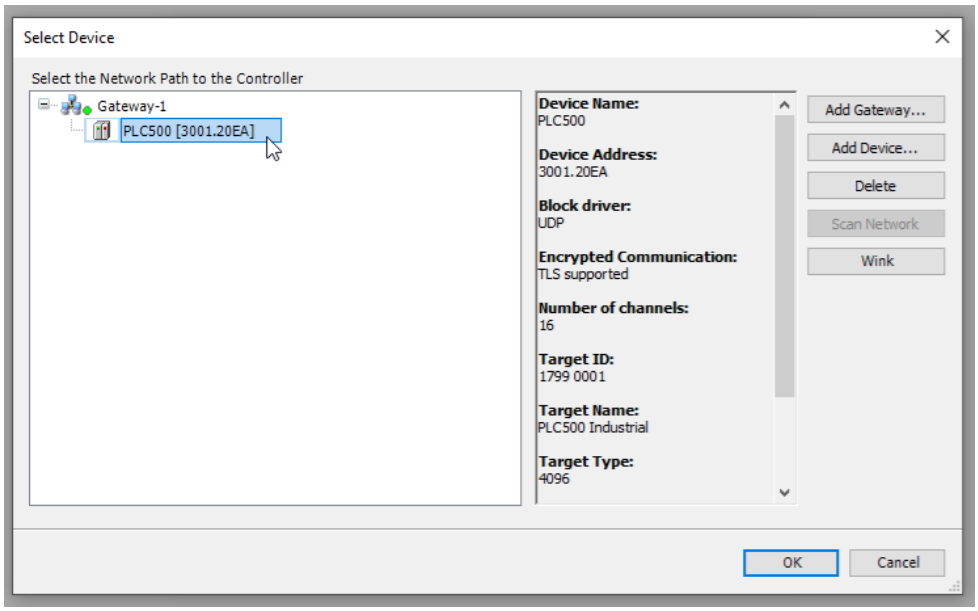

Figure 3.3: *Device selection for licensing*

5 - Click on **Install Licenses**.

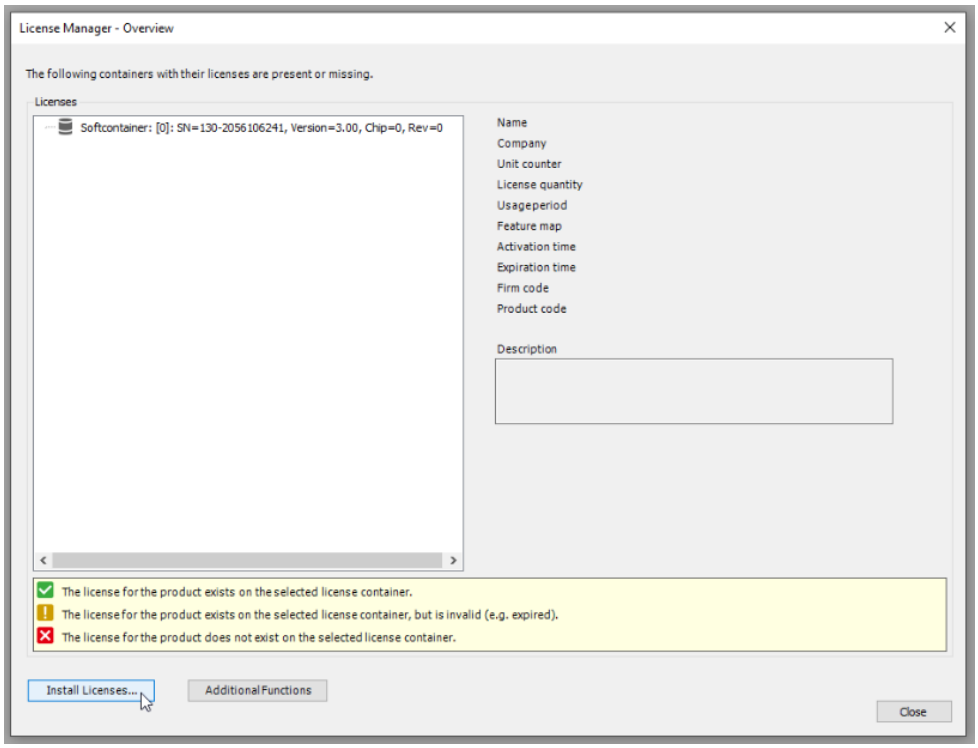

Figure 3.4: *License Manager - Overview*

NOTE!

Licenses already activated on the device will be displayed in this tab.

6 - Select the option **Activate license** and click **Next**.

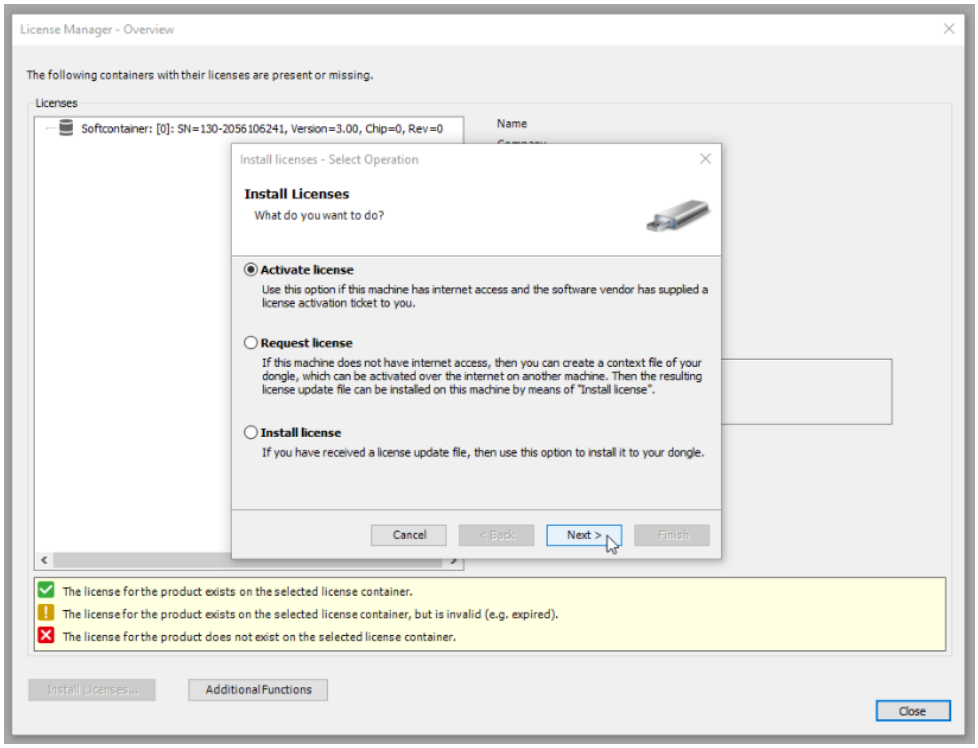

Figure 3.5: *License activation*

7 - Enter or paste the **Ticket** received from the CODESYS website into the **Ticket ID** field. Select the **Softcontainer** option in the **Container** field and click **Next**.

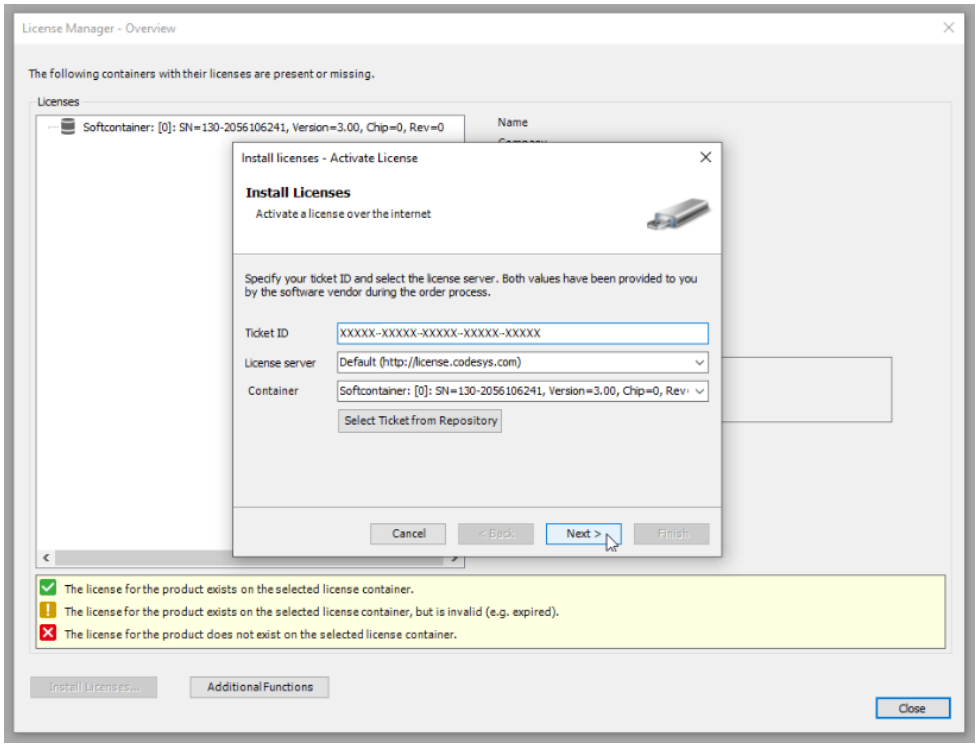

Figure 3.6: *License installation*

ATTENTION!

To activate licenses, the computer must be connected to the internet.

8 - After following these steps, the license will be installed on the PLC. Click **Finish** to close the window.

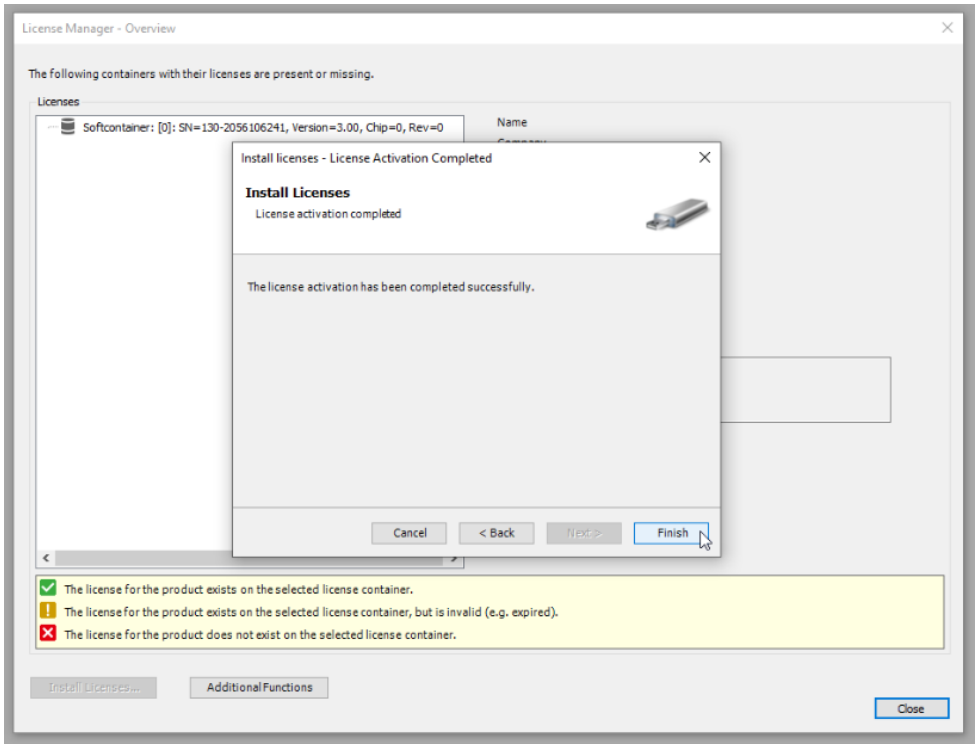

Figure 3.7: *License installed*

9 - Upon completion of the process, the license will be activated and can be viewed in the **License Manager** tab, as shown in the figure below.

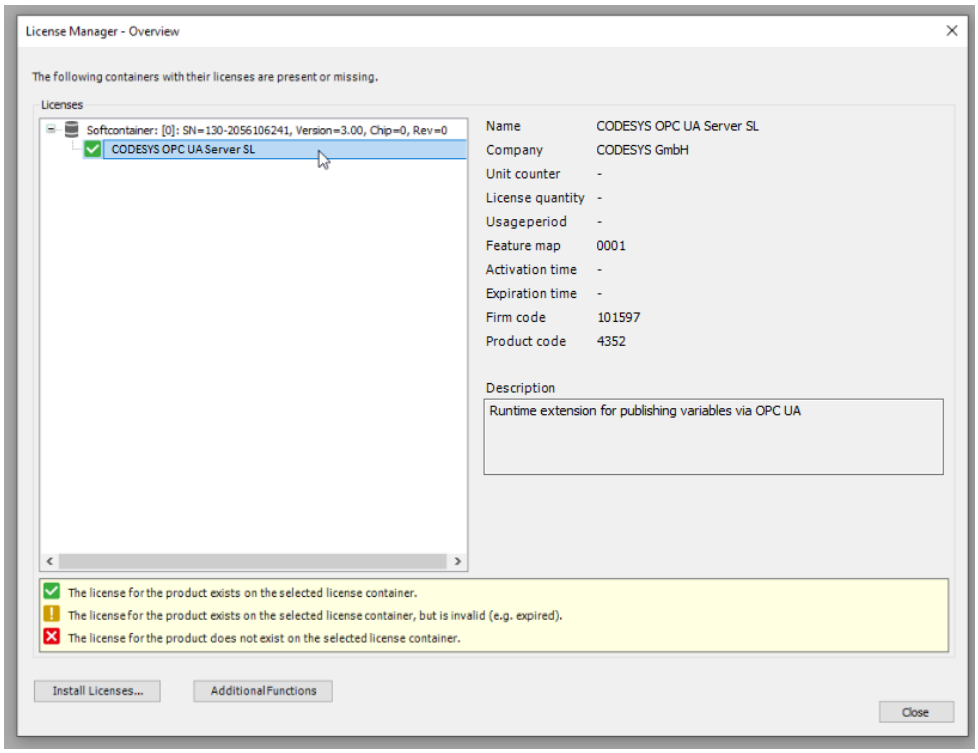

Figure 3.8: *View of installed licenses*

NOTE!

When activating a license, it is recommended to clearly document which licenses (**Tickets**) were activated for each product. This record is necessary to facilitate the process of license recovery with CODESYS.

4 INSTALLATION OF THE LICENSE ON USB DONGLE

When installing a license on a USB Dongle (**CODESYS Key**), the PLC connected to this dongle will have the license automatically enabled.

To install a license on a USB Dongle (**CODESYS Key**), follow the steps below:

1 - Open the CODESYS Software and navigate to the **Tools** → **License Manager** menu.

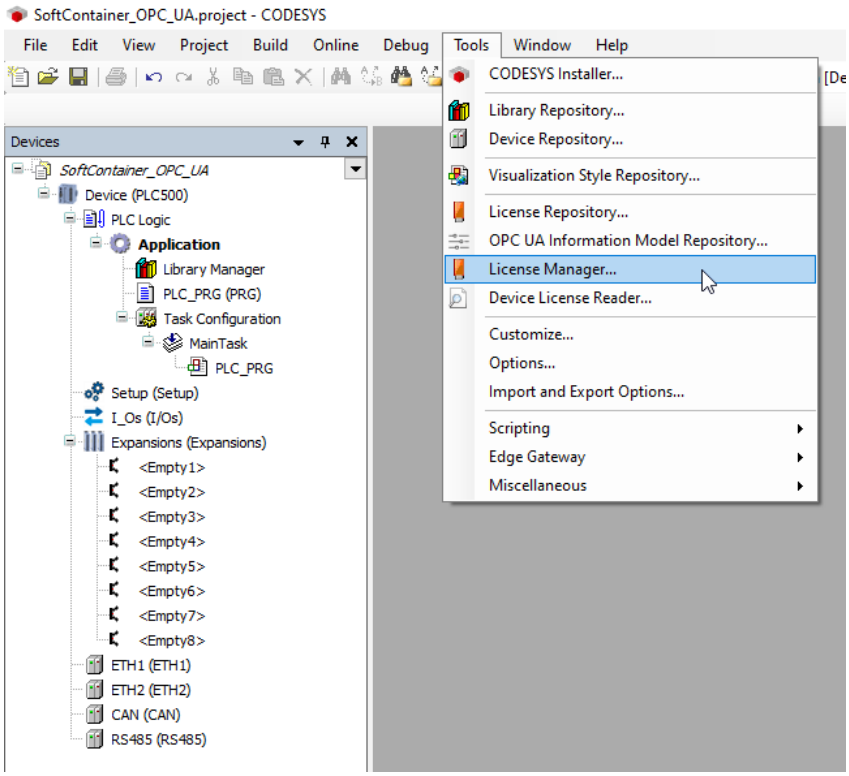

Figure 4.1: *Open the* ***License Manager...***

3 - Select **Device** and **Dongle** to install the license via PLC.

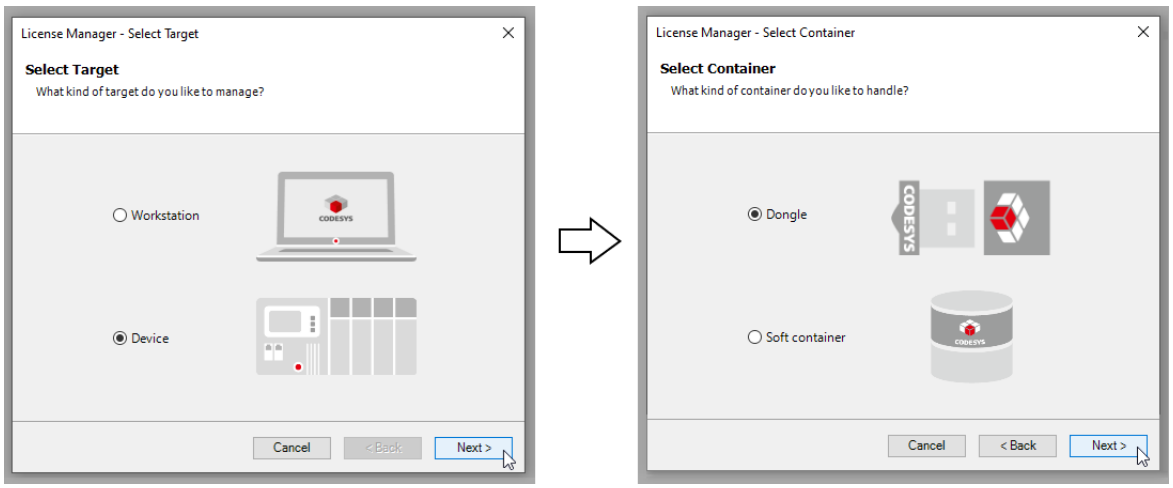

Figure 4.2: *Choose* ***SoftContainer***

NOTE!

It is also possible to install the license by connecting the **Dongle** directly to the computer. In this case, select the **Workstation** → **Dongle** option.

4 - Select the device with the USB Dongle (**CODESYS Key**) connected, on which you want to activate the license.

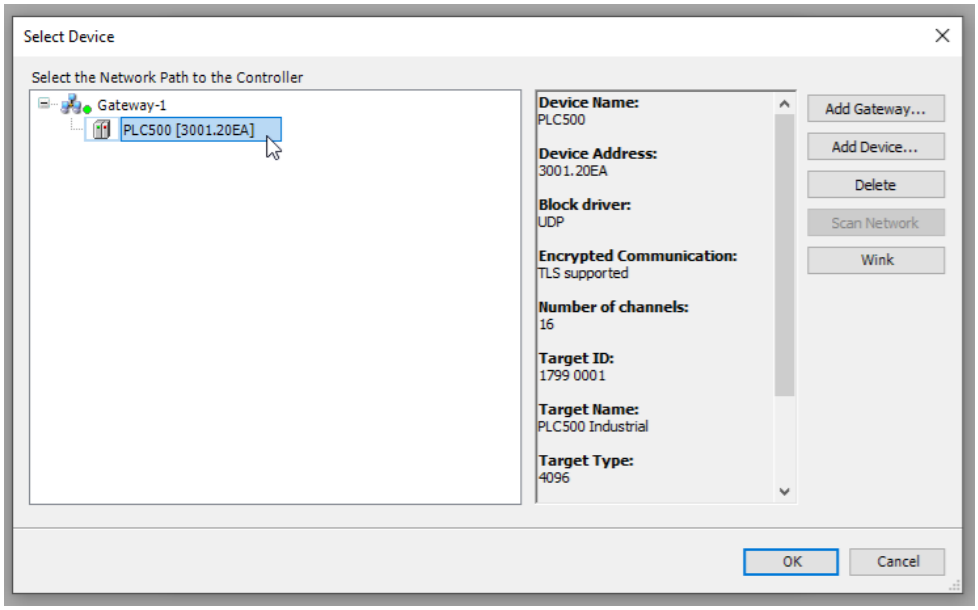

Figure 4.3: *Device selection*

5 - Click on **Install licenses**.

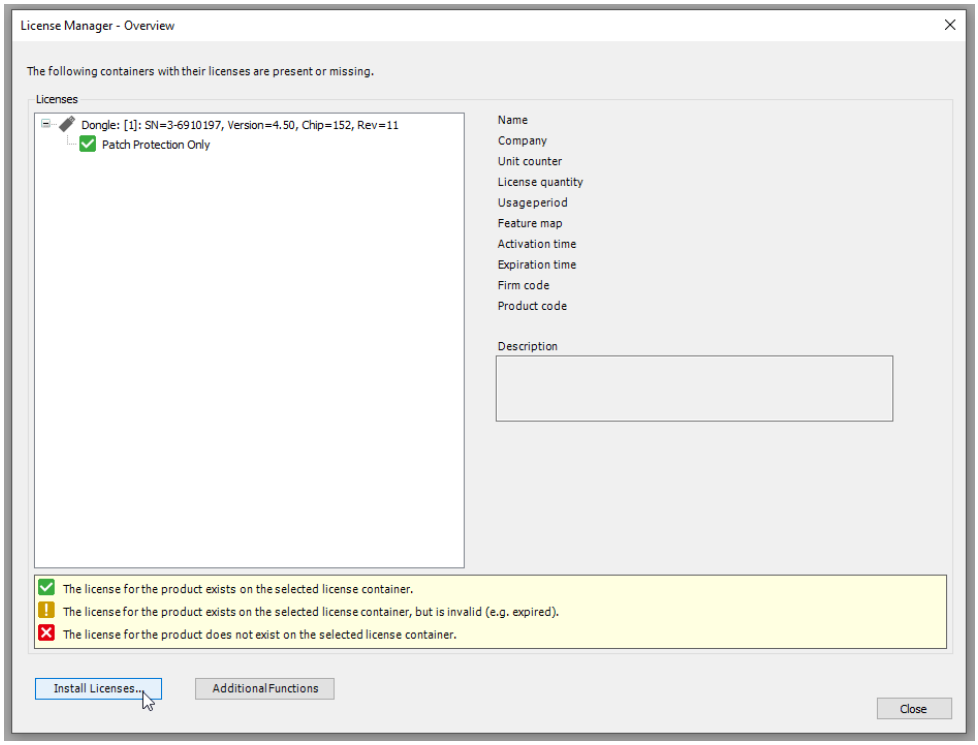

Figure 4.4: *License Manager - Overview*

NOTE!

Licenses already activated on the device will be displayed in this tab.

6 - Select the option **Activate license** and click **Next**.

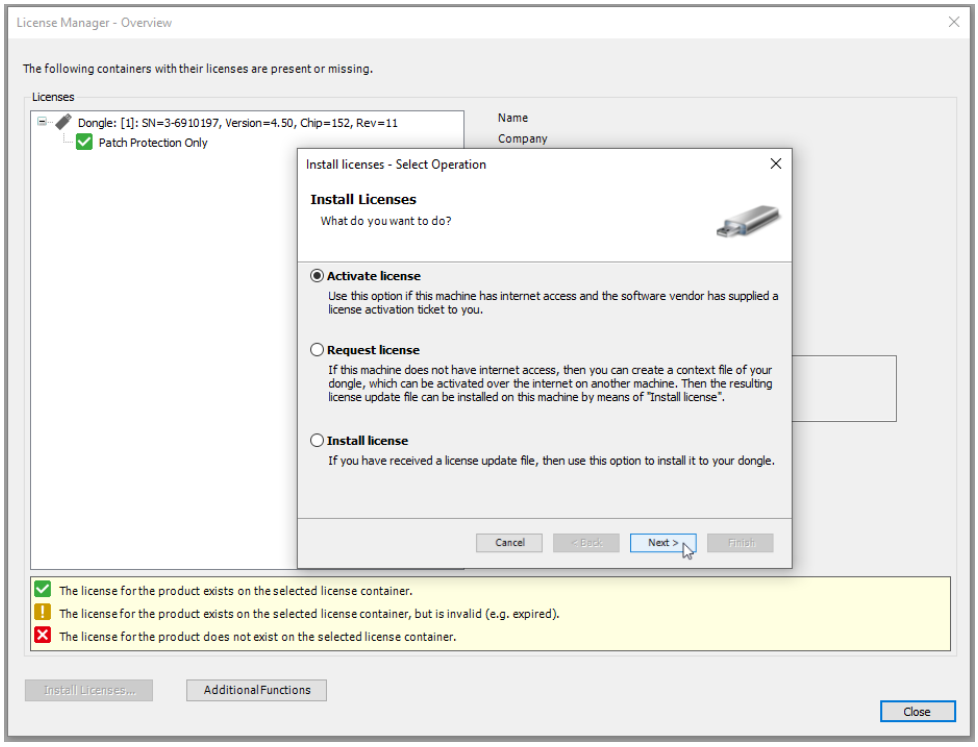

Figure 4.5: *Activate license*

7 - Enter or paste the *Ticket* received from the CODESYS website into the **Ticket ID** field. Choose the **Dongle** option in the **Container** field and click **Next**.

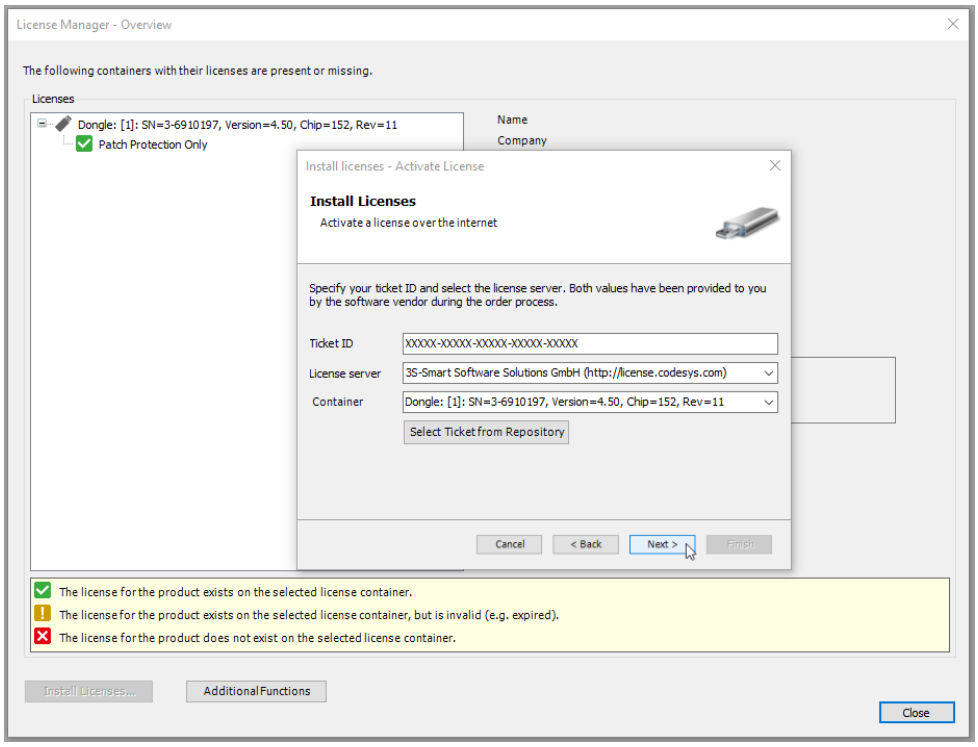

Figure 4.6: *Install license*

ATTENTION!

To install new licenses, the computer must be connected to the internet.

8 - After completing these steps, the license will be installed on the **USB Dongle**. Click **Finish** to close the window.

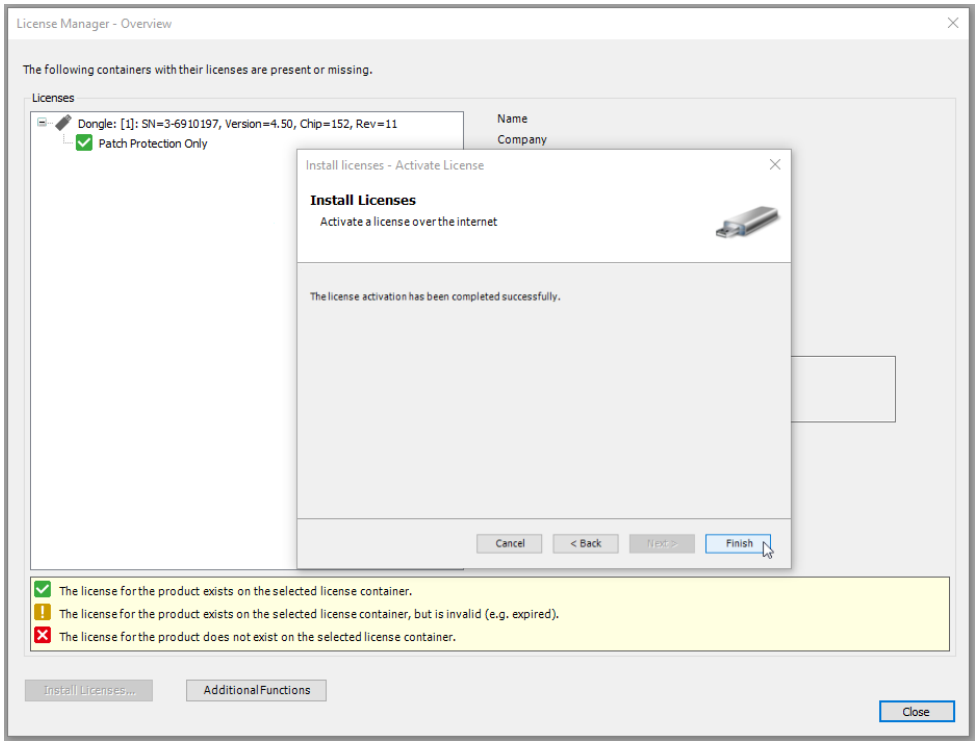

Figure 4.7: *License installed*

9 - Once the process is complete, the license will be activated and can be viewed in the **License Manager** tab, as shown in the figure below.

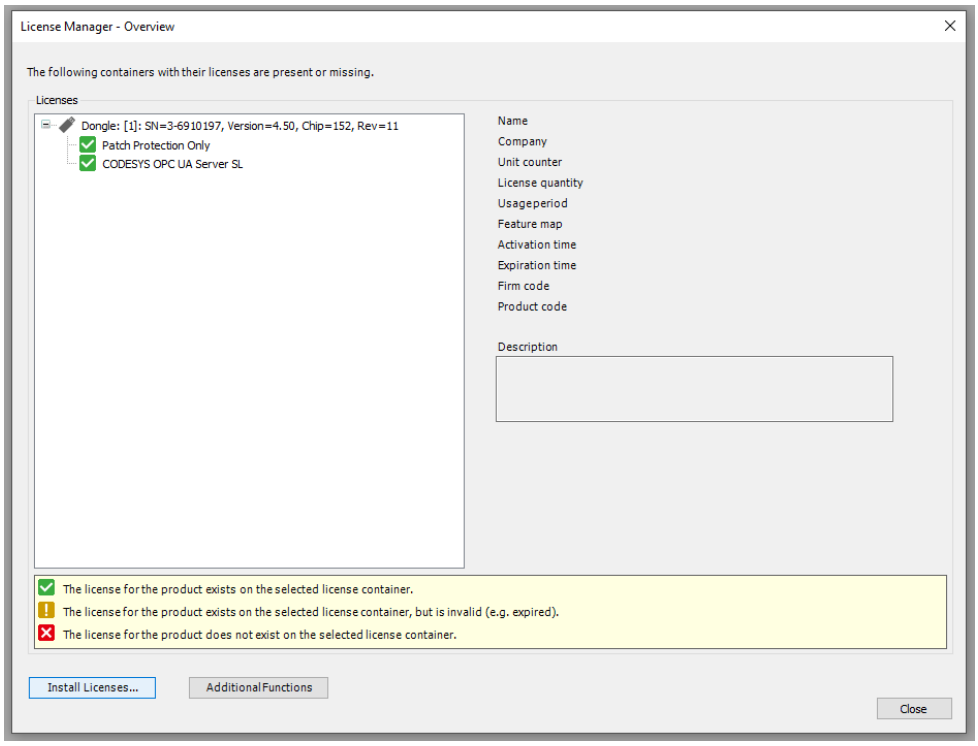

Figure 4.8: *View of licenses installed on the USB Dongle*

5 LICENSE RECOVERY

In the event of a failure of the PLC on which the license is installed, you can request the reactivation of the license. To do this, follow the steps below to contact CODESYS support:

- Send an email to sales@codesys.com requesting the reactivation of the **Ticket**.
- In the email, include the following information:
  - The number of the **Ticket** installed on the device.
  - A detailed description of the justification for the license reactivation.

ATTENTION!

The approval for the reactivation of the license **is not guaranteed** and is subject to review by the CODESYS support team, which will evaluate each case based on the information provided and the applicable policies.

BRAZIL
WEG DRIVES & CONTROLS - AUTOMAÇÃO LTDA.
Av. Prefeito Waldemar Grubba, 3000
89256-900 - Jaraguá do Sul - SC
Phone: 55 (47) 3276-4000
Fax: 55 (47) 3276-4060
www.weg.net/br