

# **Load CODESYS to AXC F 2152**



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### 1. Overview

This guide will go over the process on how to import a 'Codesys Control for PLCnext SL' license into the Codesys IDE, load the Codesys runtime onto a PLCnext AXC F 2152 and apply the license.

### 2. General Information

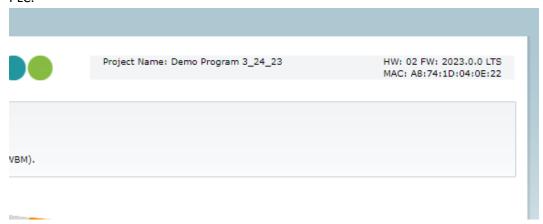
This is what is needed to complete this guide:

- -Codesys Development System V3.5.17.0 or higher
- -Codesys Control for PLCnext SL
- -AXC F 2152 PLC
- -PLCnext firmware version 2023.0 LTS

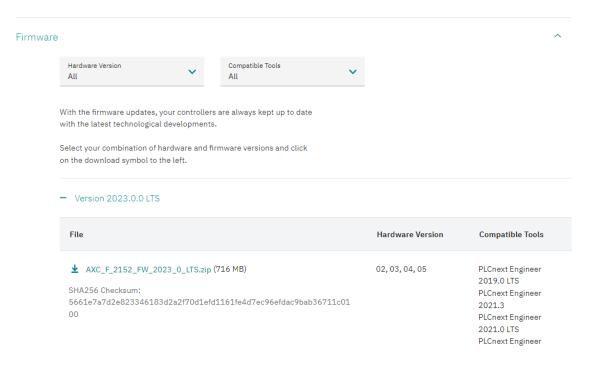


### 3. Check and Update Firmware of PLC

 Confirm the firmware version on the 2152. Connect your PC to the PLC and change the network settings of the PC to be on the same subnet as the PLC. (192.168.1.x) Check the firmware version of the PLC by logging into the web-based management tool. This is done by entering 192.168.1.10/wbm into any web browser. User: admin and Password: is printed on the face of the PLC.

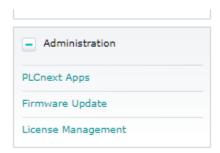


- 2. If the PLC is not on firmware version 2023.0 LTS, go to the 2152 product page at: https://www.phoenixcontact.com/en-us/products/controller-axc-f-2152-2404267
- 3. Scroll down to Firmware expand this section and expand Version 2023.0.0 LTS and download the zip file.



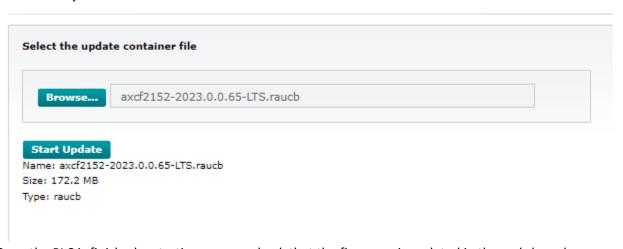


- 4. Unzip the downloaded firmware update file and locate the .raucb file.
- 5. Navigate to the Firmware update page under the Administration tab in the web based management tool.



6. Browse for the .raucb file and Start the update. This will update the firmware and the PLC will reset.

#### Firmware Update



7. Once the PLC is finished restarting you can check that the firmware is updated in the web-based management tool.



# 4. Import 'CODESYS Control for PLCnext SL'

- 1. Open the 'CODESYS Installer' from the CODESYS IDE under the Tools tab.
- 2. Confirm that "CODESYS Control for PLCnext SL' is installed. If not installed, download from the CODESYS store and import using CODESYS Installer.

NOTE: This will run for free for two hours before requiring a license or hardware reboot

### 5. Import License to IDE

1. Here are the license options, it is only necessary to have 'CODESYS Control for PLCnext SL' to run CODESYS on an AXC F 2152.

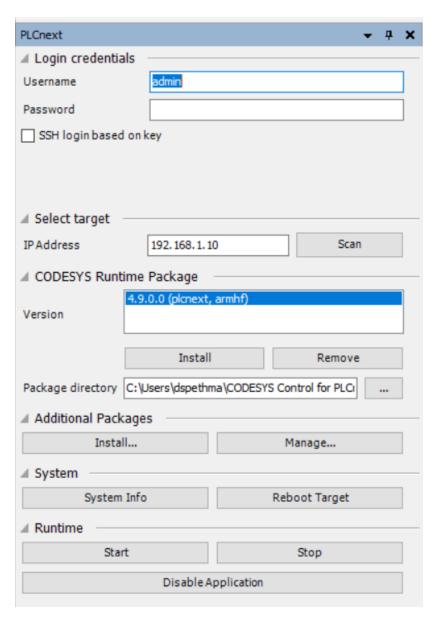
CODESYS Control for PLCnext SL *	CODESYS Control PLCnext MultiCore SL	CODESYS KNX SL
1 x CODESYS Control for PLCnext SL + \$132.00	☐ 1 x CODESYS Control for PLCnext MC SL + \$66.00	1 x CODESYS KNX SL + \$180.00
CODESYS BACnet SL	CODESYS Control SoftMotion SL	CODESYS SoftMotion CNC+Robotics SL (Option CODESYS
CODESTS BACILET SE	CODESTS CONTROL SOTUMOTION SE	SoftMotion SL is required)
1 x CODESYS BACnet SL + \$360.00	☐ 1 x CODESYS SoftMotion SL + \$264.00	☐ 1 x CODESYS SoftMotion CNC+Robotics SL + \$132.00
☐ 1 x CODESYS BACnet SL + <b>\$360.00</b>	☐ 1 x CODESYS SoftMotion SL + <b>\$264.00</b>	☐ 1 x CODESYS SoftMotion CNC+Robotics SL + \$132.00

- 2. A key should be emailed or can be found in the 'My Orders' section of your CODESYS account, after purchasing a license
- 3. Open CODESYS and navigate to the License Repository under the Tools tab.
- 4. Import your Ticket containing the license.



# 6. Apply CODESYS Runtime to PLC

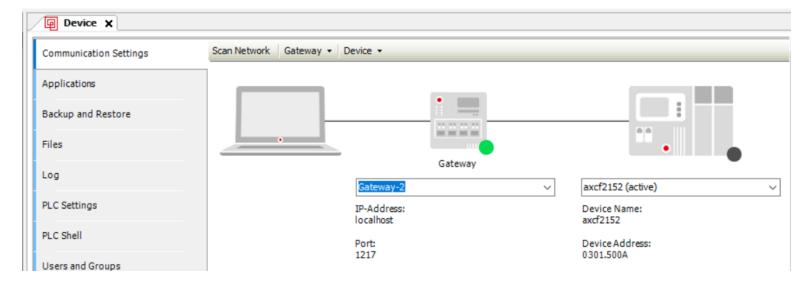
- 1. Open update PLCnext under the Tools tab.
- 2. Using the same login credentials as the WBM, populate the Username and Password.
- 3. Manually type in IP address or Scan.
- 4. There should be a Runtime Package version, but if there is not locate the 'CODESYS Control for PLCnext SL' on your laptop.
- 5. Click the Install button below the CODESYS Runtime Package.
- 6. Once the install process is complete Click Start underneath Runtime.





# 7. Apply License to PLC

- 1. Start a new standard project and double click the Device under the Devices window.
- 2. The below window will open.
- 3. Connect to the PLC by Scanning the network



- 4. Once connected to the PLC, open the License Manager under the Tools tab.
- 5. Select Device, Select Soft container, click the PLC and then OK
- 6. Highlight the License and Install