CODESYS Control SoftMotion RTE SL

1 General information

Order number: 2302000006	**Supplier information**
Version: 3.5.8.20	3S-Smart Software Solutions GmbH Memminger Straße 151 87439 Kempten Germany
Short description	Support:
CODESYS Control SoftMotion RTE SL is a real-time software PLC for PC-based industrial controllers under Windows - programmable with the IEC 61131-3 development System CODESYS.	Tel: +49 831 54031 66 support@codesys.com

2 Requirements and restrictions

Programming system	CODESYS Development System Version 3.5.8.20 or higher
Target system	-
Supported Platforms / Devices	Executable under Windows XP / 7 / Embedded (32 bit) with single or multi core CPUs Notice: Use the project 'Device Reader' to find out the supported features of your device. 'Device Reader' is available for free in the CODESYS Store.
Additional requirements	-
Restrictions	-

3　Price

679 EURO plus 19% VAT

This product is subject to license conditions. The product can be either licensed on a software base (license container is part of the CODESYS Control SoftMotion RTE SL since version 3.5.4.0) or via the CODESYS Runtime Key (not part of the product range).

If no valid license is present, the Soft-PLC runs for two hours without functional constraint and the automatically stops.

4　Optional accessory, purchasable in the CODESYS Store

CODESYS Runtime Key, compact　　　Order number: 601003

5　Product description

The product CODESYS Control SoftMotion RTE SL is a real-time software PLC for PC-based industrial controllers under Windows. The runtime system has its own real time kernel: deterministic behavior with jitter values in the µs region without additional hardware components or operating system extensions.

The runtime system supports the following functions:

- CODESYS CANopen Master / Slave
- CODESYS EtherCAT Master
- CODESYS Modbus TCP Master / Slave
- CODESYS Modbus RTU Master / Slave
- CODESYS Sercos III Master
- CODESYS PROFIBUS Master
- CODESYS PROFINET Master
- CODESYS EtherNet/IP Master
- CODESYS DeviceNet Master
- CODESYS J1939
- CODESYS FDT Frame

The product can be extended by the following **chargeable** options:

- CODESYS SoftMotion (mandatory)
- CODESYS SoftMotion CNC (CODESYS SoftMotion is required)
- CODESYS WebVisu
- CODESYS TargetVisu

6　Technical description

Installation and configuration guides for the runtime system can be found in the RTE manual as part of the package or for direct download on the product website (CODESYS Control SoftMotion RTE SL).

The licensing of the runtime system can be realized in different ways:

1) **Online licensing via CODESYS**
   Requirements:
   - PC with CODESYS Development System and internet access
   - Connected control system

   Licensing is done via workstation / notebook with the CODESYS Development System and the connected control system. The license entries are edited via double-click on the device under "PLC settings" / "Edit licenses…" (Picture 1). The license activation is done under "Install licenses" / "Activate license" (Picture 2,

upper choice / Picture 3) by entering of the ticket number and transfer of the license to the CODESYS Runtime Key or the CODESYS Software Key (Softcontainer).

2) **Online licensing on the target system via browser**

Requirements:

- Control system with internet access

Licensing is done on the control system via web browser on http://license.codesys.com (Picture 4). After entering of the ticket number the license can be activated on the CODESYS Runtime Key or the CODESYS Software Key (Softcontainer).

3) **Offline licensing via context file**

Requirements:

- Control system (no internet access needed)
- PC with CODESYS Development System with internet access and an option for data exchange
- Or
- Arbitrary PC with internet access and an option for data exchange

The context file (*.WibuCmRaC) can be created via two methods:

a) In the CODESYS Development System via double-click on the device under "PLC settings" / "Edit licenses…" (Picture 1) / "Install licenses…" / "Request license" (Picture 2, middle option).

b) In the CodeMeter Control Center (installed with the CODESYS Development System or download on http://www.wibu.com/) via selection of the license container (CODESYS Runtime Key or CODESYS Software Key) under "License Update" or "Activate License" and "Create license request" (Picture 5 / Picture 6, upper option).

The activation of the license on the created context file is done via web browser on http://license.codesys.com. After entering of the ticket number and selection of the license container (CODESYS Runtime Key or CODESYS Software Key) the "Offline activation" has to be selected (Picture 7). After selection of the license request file created before ("Browse…") the activation of the license is done via "Get License Update" (Picture 8). The updated context file (*.WibuCmRaU) can be stored to an arbitrary place (i.e. USB device).

The import of the updated context file can be done via two options:

a) In the CODESYS Development System via double-click on the device under "PLC settings" / "Edit licenses…" (Picture 1) / "Install licenses…" and "Install license" (Picture 2, lower option).

b) In the CodeMeter Control Center (installed with the CODESYS Development System or download on http://www.wibu.com/) via selection of the license container (CODESYS Runtime Key or CODESYS Software Key) under "License Update" respectively "Activate License" and "Import license update" (Picture 5 / Picture 6, middle option).
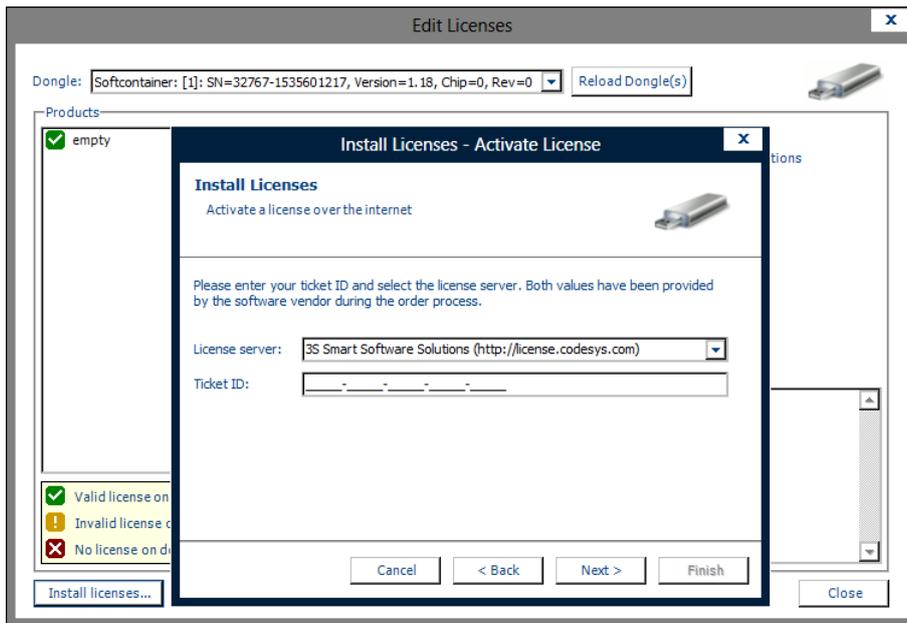
7   Screenshots
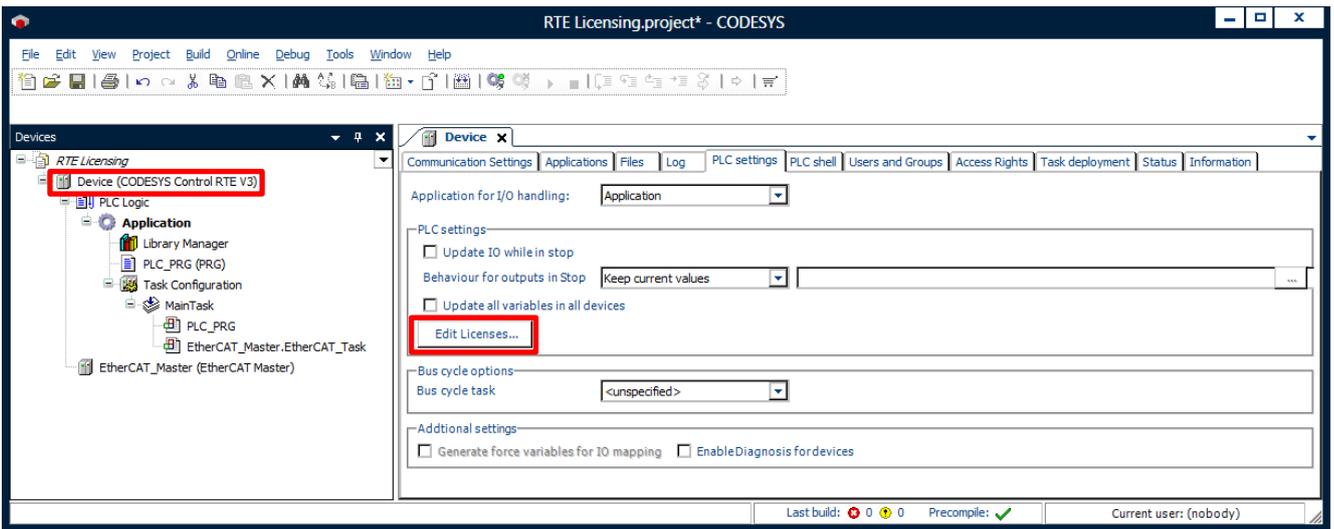
Picture 1: Editing of device-based licenses in the CODESYS Development System
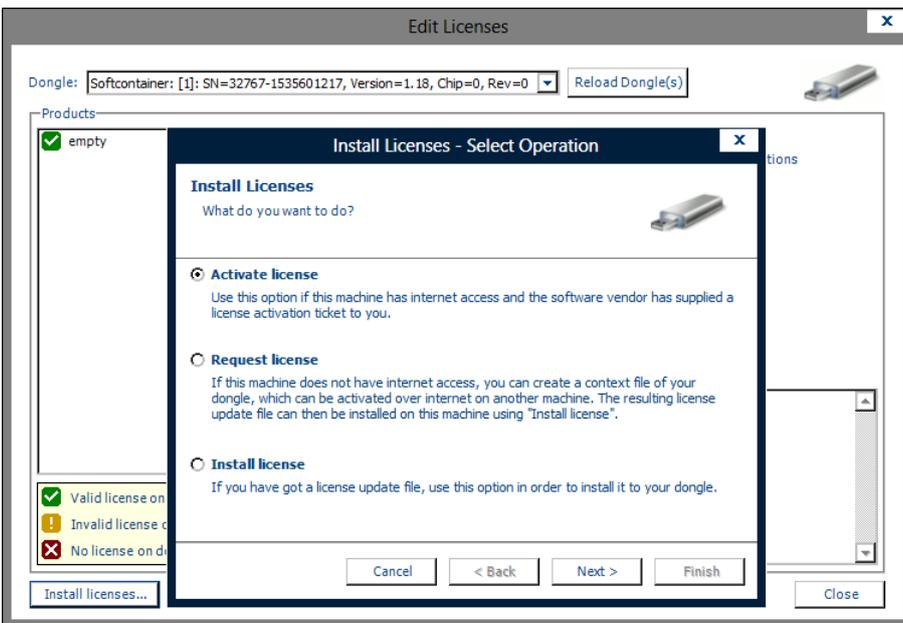
Picture 2: Installation (online) of device-based licenses in the CODESYS Development System

Picture 3: Input of the ticket number

Picture 4: Online activation of licenses via webbrowser on http://license.codesys.com
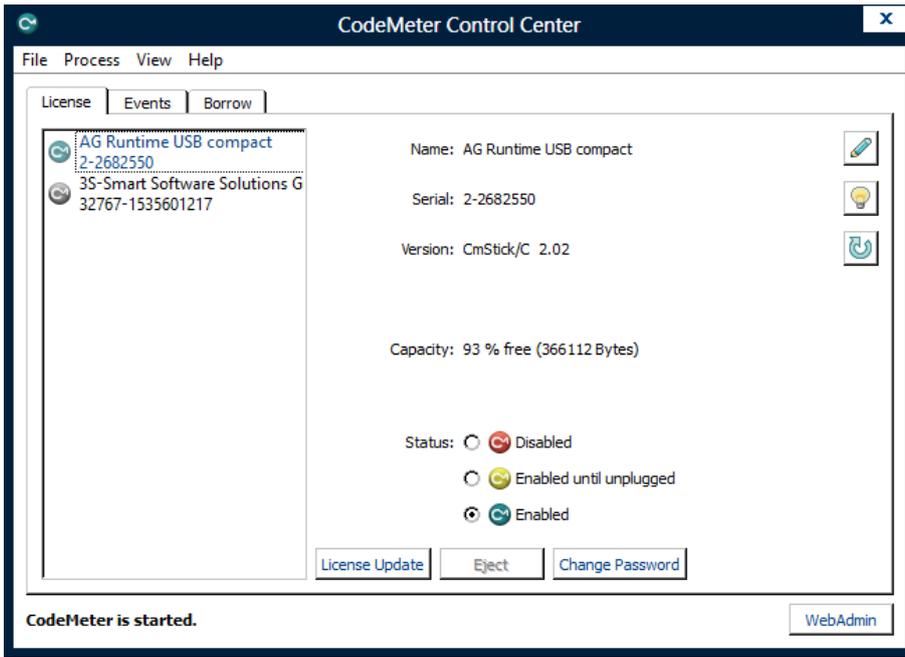
Picture 5: License container management via the CodeMeter Control Center
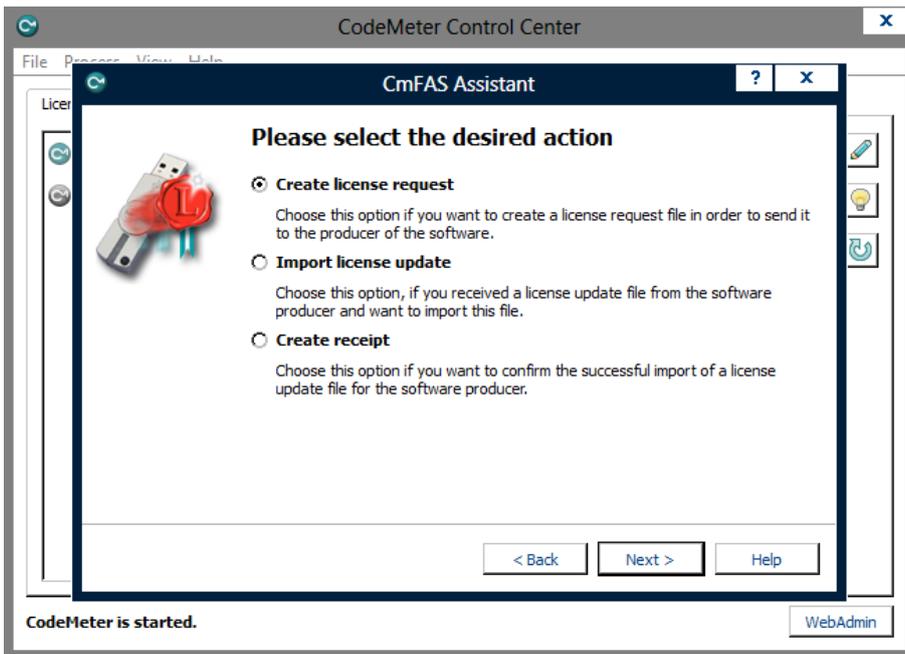
Picture 6: Generation and installation of context files for offline activation via the CodeMeter Control Center

32767-1535601217 (3S-Smart Software Solutions GmbH Softlicenses) ⌄

Activate Licenses

Offline Activation

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Picture 7: Offline activation of licenses via webbrowser on http://license.codesys.com

Product Name	Status
☑ CODESYS Control RTE SL (Full,Soft)	Available

Choose your License Request File

Browse...

Get License Update

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Picture 8: License activation on the license request file (offline activation)