

SOFTWARE MANUAL

Installation and licensing

Automation Builder



Table of contents

1	Overview.....	4
1.1	Installation and licensing workflows.....	4
1.2	License overview.....	5
1.2.1	License model.....	5
1.2.2	Activation keys and licenses.....	6
1.2.3	Included features per edition.....	8
1.2.4	Order codes for Automation Builder engineering suite.....	8
1.2.5	Order code for Panel Builder 600 (PB610) standalone.....	8
1.2.6	System libraries.....	8
2	Installation of Automation Builder.....	9
2.1	General.....	9
2.2	Preconditions.....	9
2.2.1	System requirements.....	9
2.2.2	Creating project archives.....	10
2.2.3	Check internet connection and firewall settings.....	12
2.3	Installing Automation Builder on an online PC.....	12
2.4	Installing Automation Builder on an offline PC.....	14
2.5	Installing additional tools and libraries.....	16
2.6	Migration of third party devices.....	18
2.7	Uninstallation of Automation Builder.....	20
3	Licensing.....	21
3.1	Starting the licensing process.....	21
3.2	Registration.....	21
3.3	Activating Automation Builder license.....	22
3.3.1	Online activation.....	25
3.3.2	Offline activation.....	25
3.4	Activating additional tools and libraries.....	26
3.4.1	Activating the Panel Builder 600 and PC-runtime license.....	27
3.4.2	Activating Solution library license.....	28
3.5	Managing your licenses.....	28
3.5.1	Identifying the installed license.....	28
3.5.2	Selecting the license used on Automation Builder startup.....	29
3.5.3	Checking licenses with “CodeMeter Control Center”.....	30
3.5.4	Setting dedicated network servers in search list.....	31
3.5.5	Restarting license check with a dongle bound license.....	33
3.5.6	Removing trial license to remove expiring message.....	34
3.5.7	Network licenses.....	35
3.5.8	License borrowing manager.....	40
3.5.9	Transferring an Automation Builder license.....	42
3.5.10	Generating license information file for support.....	60
3.5.11	Generating log files for support.....	60
3.5.12	Further information.....	60
4	Frequently asked questions and Support.....	61
4.1	Frequently asked questions.....	61
4.2	Special settings for internet security software “F-Secure”.....	64
4.2.1	Compatibility mode.....	64
4.2.2	Adding CodeMeter to whitelist.....	64

4.3 Support..... 64

4.3.1 Main information..... 64

4.3.2 Installation log file..... 64

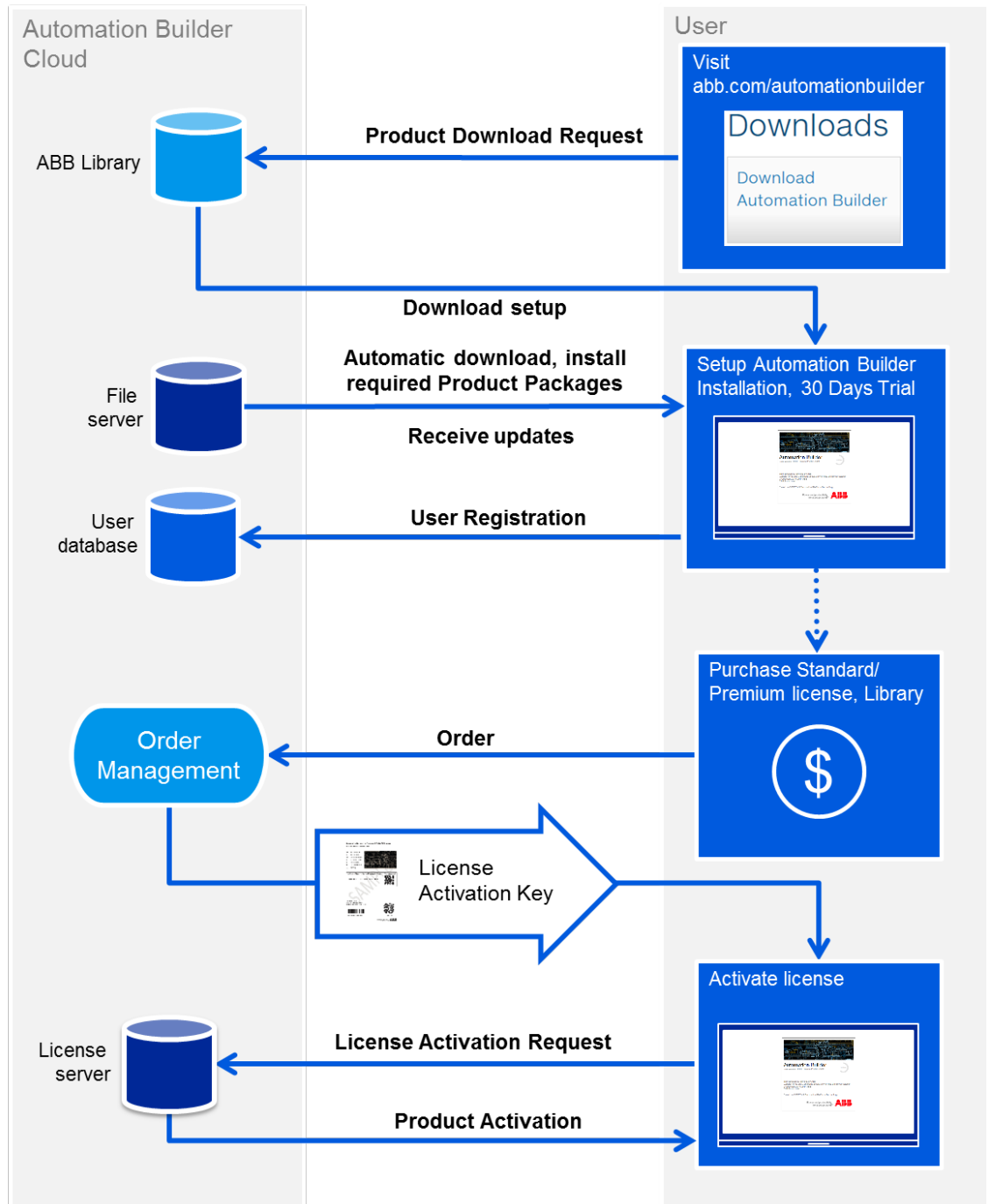
4.3.3 License activation support information..... 65

4.3.4 Automation Builder log files..... 65

1 Overview

1.1 Installation and licensing workflows

The following overview describes how to get and activate an Automation Builder edition, library or add-on.



Download Automation Builder from www.abb.com/automationbuilder. The setup is a couple of Megabytes.

Start the setup on your PC, read the end user license agreement and select the options you want to install. According to your selection more software packages will be downloaded.

After successful installation start Automation Builder. You will be asked to enter your user data. For details on the data we are storing please refer to the privacy statement as part of the end user license agreement.

After registration you can activate different kinds of licenses, e.g. a free premium trial to get familiar with the powerful features of Automation Builder.

Contact your ABB sales contact to purchase a commercial license of Automation Builder, libraries and add-ons. You will receive a letter containing the activation code. Enter this code in Automation Builder to activate an Automation Builder license.

1.2 License overview

1.2.1 License model

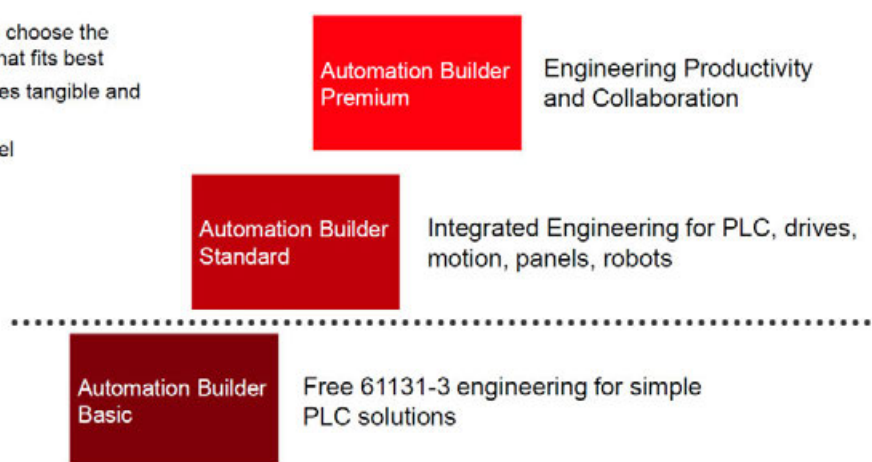
From Automation Builder 1.1 onwards a freemium license model is used.

A basic license enables a free CODESYS programming of simple PLC systems.

The standard license includes integrated engineering for PLC, drives, panels, motion, and robotics.

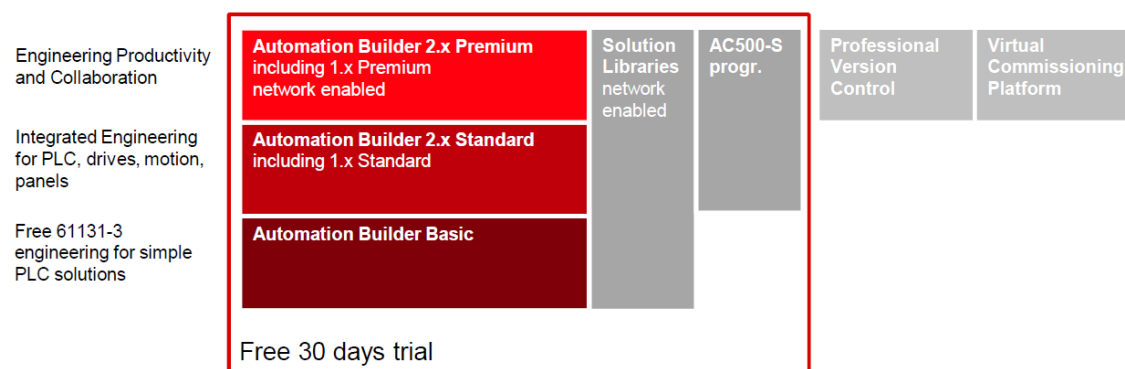
The premium license includes engineering productivity and collaboration enhancements.

- Allow the customer to choose the package of features that fits best
- Make premium features tangible and visible
- Provide free entry level



In Automation Builder 1.2 the licensing is extended in scope and license types. Selected libraries are now included to the general Automation Builder licensing mechanism. Project Version Control is available as an additional license to Automation Builder standard and premium edition.

In Automation Builder 2.0 the licensing model with three editions is kept. It was also simplified: Now premium edition has floating license enabled and standard has only non-floating.



Automation Builder 1.x licenses can be used for Automation Builder 1.x version profiles that are delivered within Automation Builder 2.x releases. Automation Builder 2.x licenses include licenses for Automation Builder 1.x version profiles. This means: when purchasing the latest license, all preceeding versions are included:

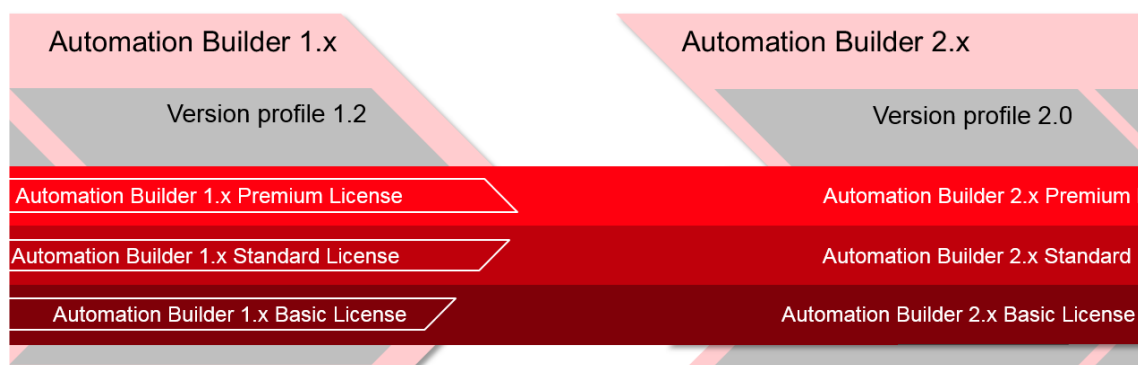
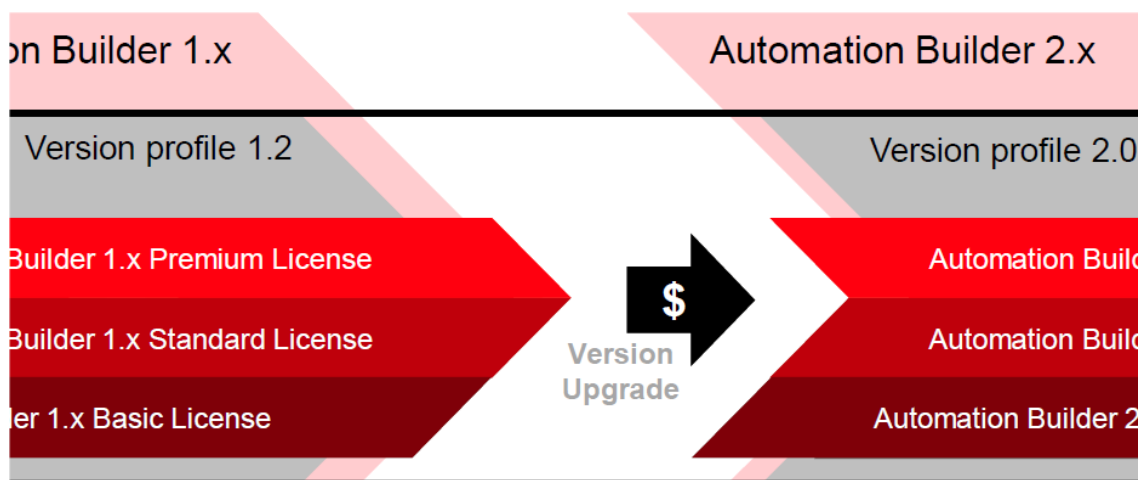


ABB is committed to support our customers' installed system base. Following a software product life cycle we want to maximize the useable life of our customers' system investment and provide our customers with the confidence that there is a well-defined support for, and a path forward for existing ABB systems. ABB's product life cycle policy provides advanced notification of planned changes in product availability and support.

You can find the lifecycle document for Automation Builder describing the current life cycle status for Automation Builder versions, service packs and licenses in the [ABB Library](#).

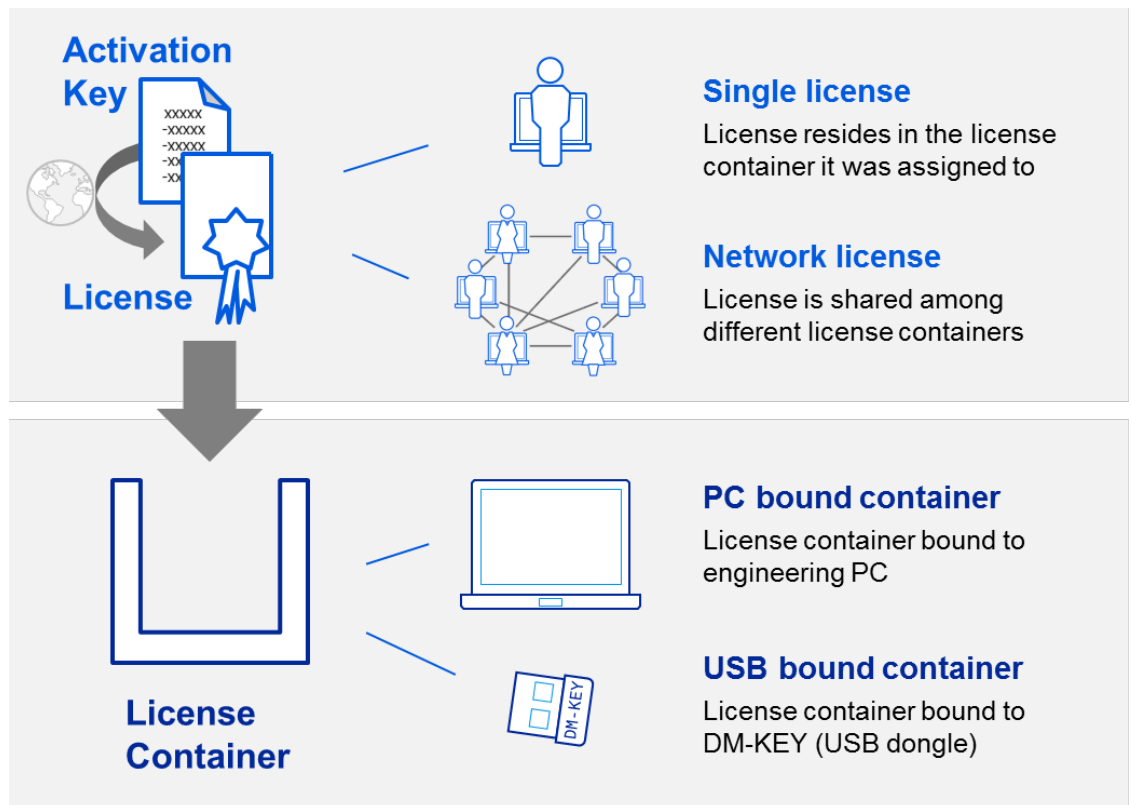
To ensure a smooth transition from Automation Builder 1.x to Automation Builder 2.x licenses, we provide upgrade paths and an attractive campaign for switching to a premium edition.

From Automation Builder 1.x	To Automation Builder 2.x	Upgrade License type
Standard	Standard	DM201-TOOL-UPGR
Premium	Premium	DM203-PREM-UPGR



1.2.2 Activation keys and licenses

There is difference between the activation key and a license.



Activating means getting a license from our systems and placing it into a license container. During activation a so-called license container will be created in the background. This container can be placed on a PC or on a DM-KEY (USB dongle) – depending on your selections during activation. The license type defines whether a license can be shared in a network or not. Single licenses reside in the license container it was assigned during activation. Network licenses are shared among different license containers – automatically and fully managed by Automation Builder.

You have to make the following decisions

1. During ordering you need to decide whether you want to have a single license or network license. This cannot be changed afterwards.
2. During activation and independent from the license type you need to decide whether the license container shall be PC bound or USB bound

Automation Builder supports all combinations

- Single license placed into a PC container: „Personal tool“, this is presently the most common variant. Both, the trial and basic licenses are single licenses bound to your PC.
- Single license placed into a USB container: „Dongle based“, this is also very common to share a license among a group of people or between different computers where Automation Builder shall be used. As the license is bound to a portable USB device it can be carried around.
- Network license placed into a PC container: „office only“, this variant is a good choice for system administrators wanting to centralize their license management. As the network license can float between different computers, you don't have to bother with the license when your PC is broken down or a complete image is deployed in case of training setups.
- Network license placed into a USB container: „office and on-site“, this variant allows both, sharing a license when you are in the office as well as taking it with you to use Automation Builder outside the office, e.g. on-site during commissioning.

You can even have combinations of the above. Some licenses as „Single“ and bound to a PC for your personal use only, others floating around placed on DM-KEYs so that you can share them and take them away.



For better transparency we recommend to have only one Automation Builder edition as network licenses. As the sharing is happening automatically and the licensing mechanism tends to be greedy it could happen that premium editions are blocked by "Standard users" first and are not available to those who really require premium features.

1.2.3 Included features per edition

An overview to features contained per edition can be found on the Automation Builder download page: [Automation Builder download page](#)

1.2.4 Order codes for Automation Builder engineering suite

To purchase a license please contact your local ABB sales representative.

An overview of the Order codes can be found in the [main catalog "PLC Automation"](#).

1.2.5 Order code for Panel Builder 600 (PB610) standalone

The Panel Builder 600 (PB610) license is included in a standard or premium license of the Automation Builder.

Starting with Automation Builder 1.1 it is possible to install Panel Builder 600 PB610 as a standalone version without installation of Automation Builder. The software package can be obtained from the "Additional tools" section in the Automation Builder setup.

For order information please see the [main catalog "PLC Automation"](#).

1.2.6 System libraries

System libraries are included in all editions.

Additional Solution Libraries have to be purchased and installed separately ↗ [Chapter 2.5 "Installing additional tools and libraries" on page 16](#).

1.2.6.1 Application libraries and examples

Further libraries and examples can be found in the Automation Builder menu under "Help → Online application examples".

- Applications Libraries add further functionality to AC500 PLC's. They are well tested larger library packages with application example(s) and documentation, have limited support and are free of charge.
- Applications Examples explain functionality by using, e.g., standard Automation Builder libraries and functions in simple examples. They are tested in the described example configuration and functionality only and also come with documentation and are free of charge.

Applications Libraries and Examples help to minimize valuable programming and testing time for specific applications.

The examples for Solution Libraries can be found in the Automation Builder menu under "Help → Project examples".

2 Installation of Automation Builder

2.1 General

Automation Builder side-by-side installation

Automation Builder versions 2.6.0 and higher can be installed side-by-side with other Automation Builder. The different versions are installed in separate installation folders. Some software components, such as Panel Builder, Drive composer pro and AC500-S Programming Tool, are shared by all installed Automation Builder versions. They are excluded from uninstallations as long as more than one Automation Builder version is installed.

If Automation Builder 2.6.0 is installed, it is strongly recommended to install Automation Builder 2.5.2 only side-by-side. For Automation Builder versions prior to 2.5 please install the version 2.5.2 with the required version profiles.

Each installed Automation Builder version has its own Installation Manager to maintain it, e.g. for modifications and uninstall.

An updated Installation Manager for Automation Builder versions prior to 2.6.0 is installed by default to properly handle side-by-side installations. Please run the Installation Manager for Automation Builder 2.6.0 after uninstalling or modifying previous Automation Builder versions.

It is not possible to install the same Automation Builder version in 32-bit and 64-bit side-by-side.

Project and library files can be opened with the desired Automation Builder version using the "Open with" function of the Windows file explorer.



For technical reasons, there are some common components between the different versions of Automation Builder. Even if you install Automation Builder versions side-by-side, these components are still shared. Examples of shared components are AC500 V2 libraries or CODESYS engineering and gateway.

Automation Builder 64-bit version

With the release of the Automation Builder 2.6.0 a 64-bit version is available.

Limitations of the Automation Builder 64-bit version:

- AC500 V2 applications can only be upgraded to AC500 V3 applications using Automation Builder 32-bit versions, as the required project converter is not available as a 64-bit component.
- Drive Manager for AC500 V2 is not available with the Automation Builder 64-bit version.

Silent Installation

As an alternative to the regular installation, the Automation Builder software can be installed in silent mode. With a few exceptions where direct user interaction is required, the installation commands can be passed via the command line. The procedure is described in the application note [Silent installation](#).

2.2 Preconditions

2.2.1 System requirements

For the current system requirements of the Automation Builder, please refer to the latest published [release notes](#).



The latest published release notes can also be found in the Automation Builder menu under "Help → Automation Builder Release Notes".

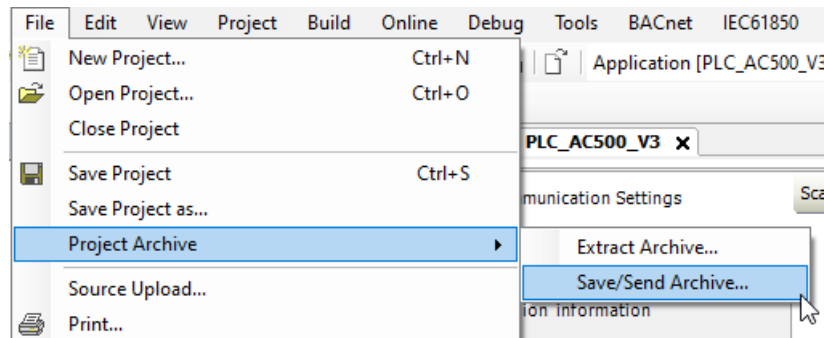
For Automation Builder 2.x the system requirements are:

- 1 gigahertz (GHz) or faster 32-bit (x86) or 64-bit (x64) processor
- 8 GB RAM
- 5-18 GB available hard disk space depending on the selected feature set (in addition to Operating System (OS) and other applications)
- Supported operating systems:
 - Windows 10 (32-/64-bit) Professional Enterprise
 - Windows 11 (32-/64-bit) Professional/ Enterprise
 - Windows Server 2012 R2 64-bit (all devices have to be directly accessible by the server; requires enabled .Net Framework 3.5)
 - Windows Server 2019 (all devices have to be directly accessible by the server; requires enabled .Net Framework 3.5)
- Network licenses are required for use of Automation Builder on Windows Server operating systems.

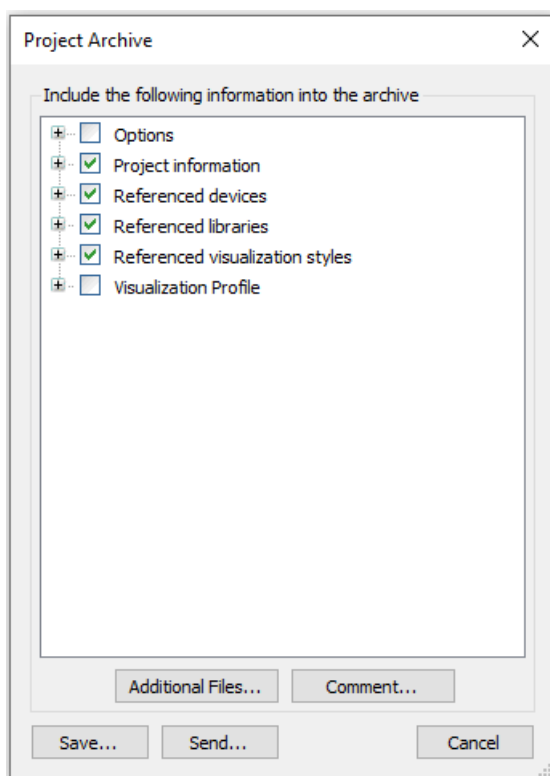
2.2.2 Creating project archives

To ensure a smooth upgrade of your projects created with former Automation Builder versions please create project archives of these projects.

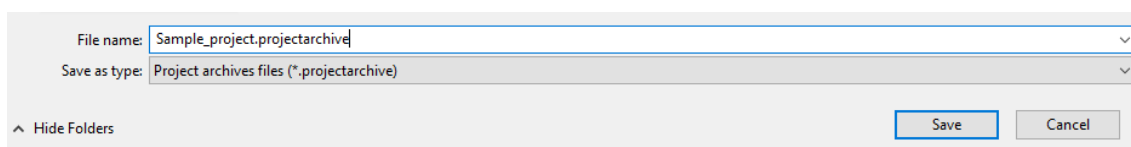
Creating project archives



1. In the Automation Builder menu select “*File ➔ Project Archive ➔ Save/Send Archive...*” to create an archive which includes all ABB and third party devices.

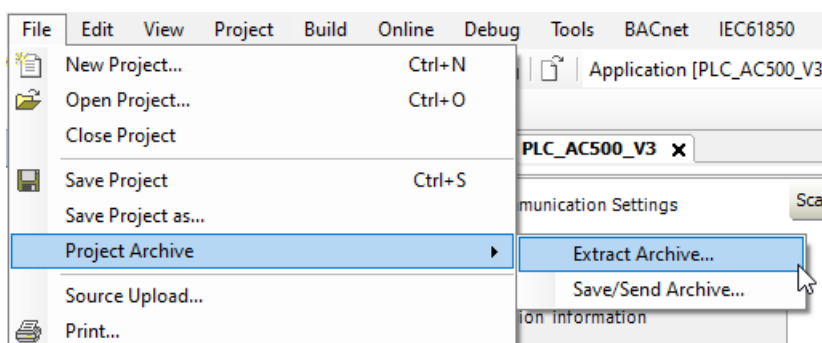


2. Select the information you want to include.
 3. Push the [Save...] button.
- ⇒ A new window opens.

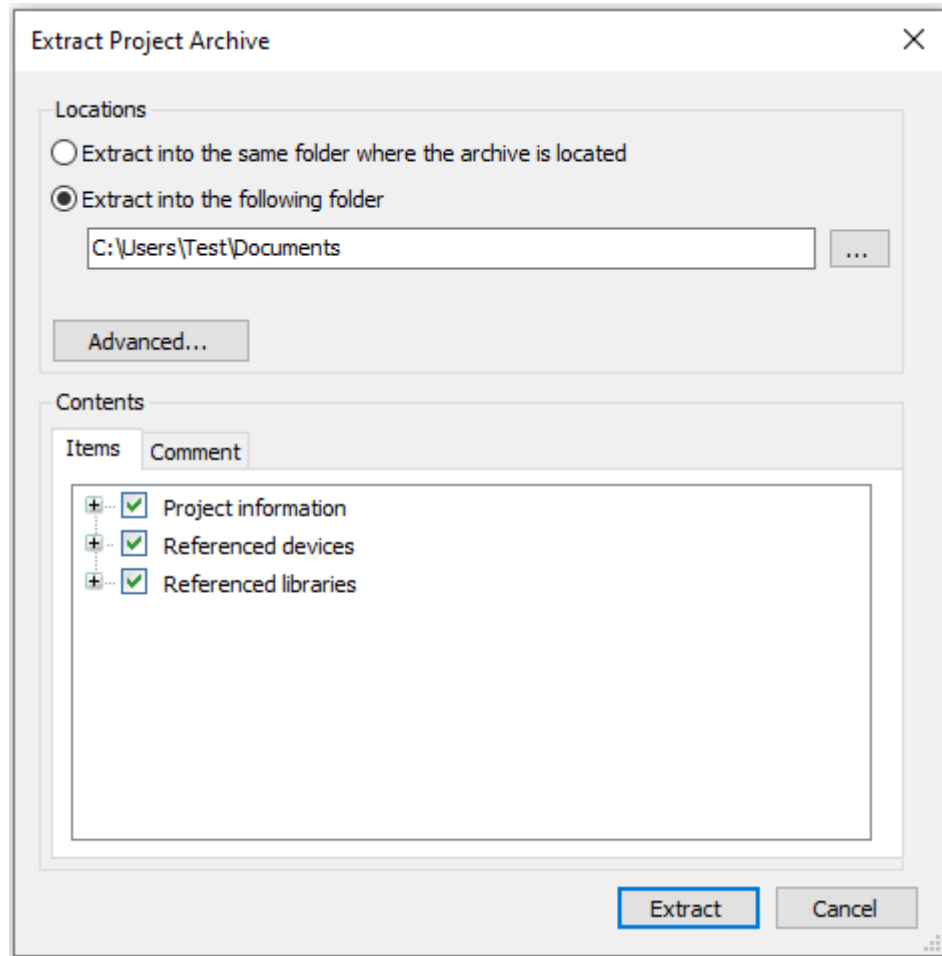


4. Enter a file name and location for your archive.
5. Push the [Save] button.

Opening archived projects



1. In the Automation Builder menu select "File → Project Archive → Extract Archive..." to open an archived project.
- Otherwise, by just opening the *.project files some devices might be missing.
- Also this will provide the third party device description to Automation Builder automatically.
- So it's not necessary to install all these third party device description manually.



2. Select which content you want to extract from your archive.
3. Push the *[Extract]* button.

2.2.3 Check internet connection and firewall settings

Please check that you have a working internet connection.

Best practice is to open an internet site in parallel and leave that open during download or licensing process.

In case of errors please check if your firewall has maybe blocked Automation Builder and adapt the firewall settings.



If you have any problems with your internet connection or proxy authentication or firewall settings, then choose the offline installation and licensing ↗ Chapter 2.4 “Installing Automation Builder on an offline PC” on page 14.

2.3 Installing Automation Builder on an online PC

- ☑ Make sure you meet the latest system requirements ↗ Chapter 2.2.1 “System requirements” on page 9.
- ☑ If you are planning on updating the Automation Builder, please make sure to create project archives ↗ Chapter 2.2.2 “Creating project archives” on page 10.

☒ Have a working internet connection on the PC you want to install the Automation Builder on. [Chapter 2.2.3 “Check internet connection and firewall settings” on page 12](#). If that is not the case proceed with an offline installation [Chapter 2.4 “Installing Automation Builder on an offline PC” on page 14](#).

1. Go to abb.com/plc/automationbuilder/platform/software to access the download page of Automation Builder.
2. In the “Latest Automation Builder version (recommended):” section, select “Automation Builder x.x. (32-bit or 64-bit version) Download” (x.x = latest version). This downloads the installer on your PC.



The Automation Builder 2.6 is the first version that is also available as 64-bit version with a separate installer. The 64-bit version is required for handling of large projects.

For accessing any previous Automation Builder version it is recommended to install Automation Builder 2.5. During the installation it is possible to add older version profiles (Automation Builder 2.4 and earlier) to the installation scope.

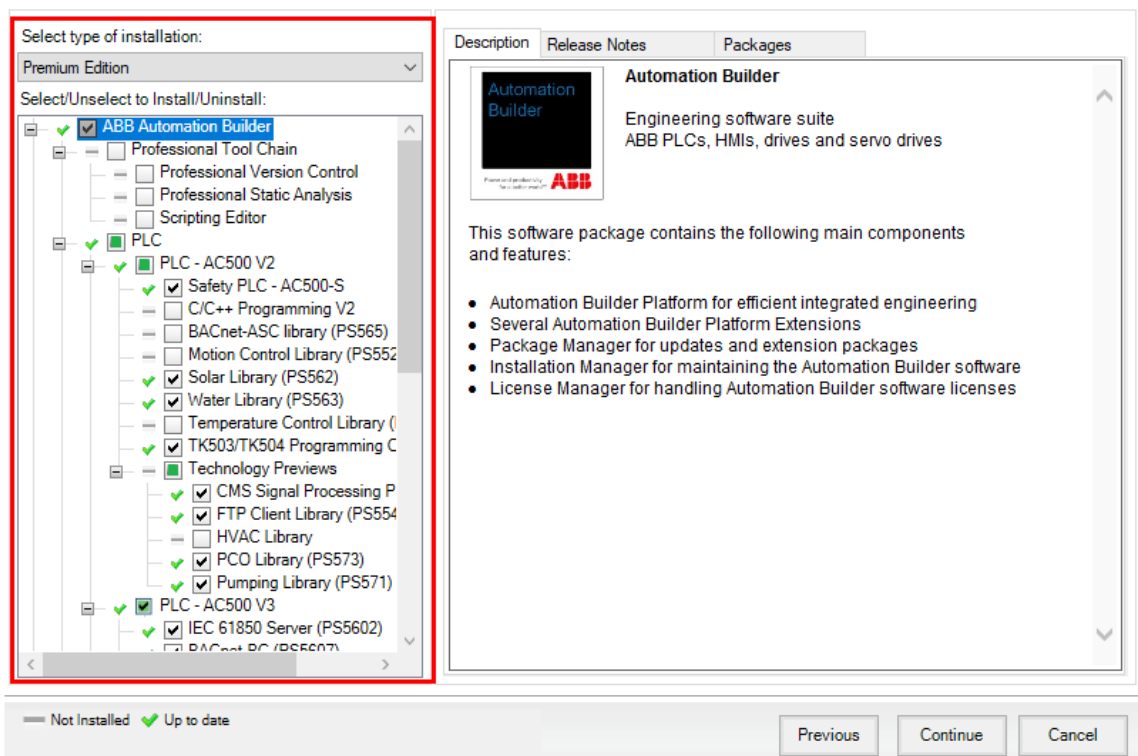
3. Open the downloaded installer and select “Install Automation Builder”
4. Keep the default type of installation to “Premium Edition”.
5. Select the software packages to be installed.

ABB Automation Builder - Selection Page

— □ ×

Automation Builder

Engineering Productivity



6. Click the [Continue] button.
7. The Automation Builder downloaded the selected software packages and follow the instructions of the setup.



If you install Automation Builder 2.5 after installing Automation Builder 2.6, it is recommended to execute the installer of Automation Builder 2.6 to make sure that the latest version of all shared components is available. The reason for this recommendation is that Automation Builder versions prior to 2.6 have not been prepared for side-by-side installation.

2.4 Installing Automation Builder on an offline PC

To install the Automation Builder on an offline PC, you first have to create an offline installation package on an online PC, then copy the offline installation package to the offline PC and install the Automation Builder.

- ☒ Make sure you meet the latest system requirements ↗ [Chapter 2.2.1 “System requirements” on page 9](#).
- ☒ If you are planning on updating the Automation Builder, please make sure to create project archives ↗ [Chapter 2.2.2 “Creating project archives” on page 10](#).
- 1. On an online PC go to abb.com/automationbuilder to access the homepage of Automation Builder.
- 2. In the “Latest Automation Builder” section, select “Automation Builder x.x. Download” (x.x = latest version). This downloads the installer on your PC.

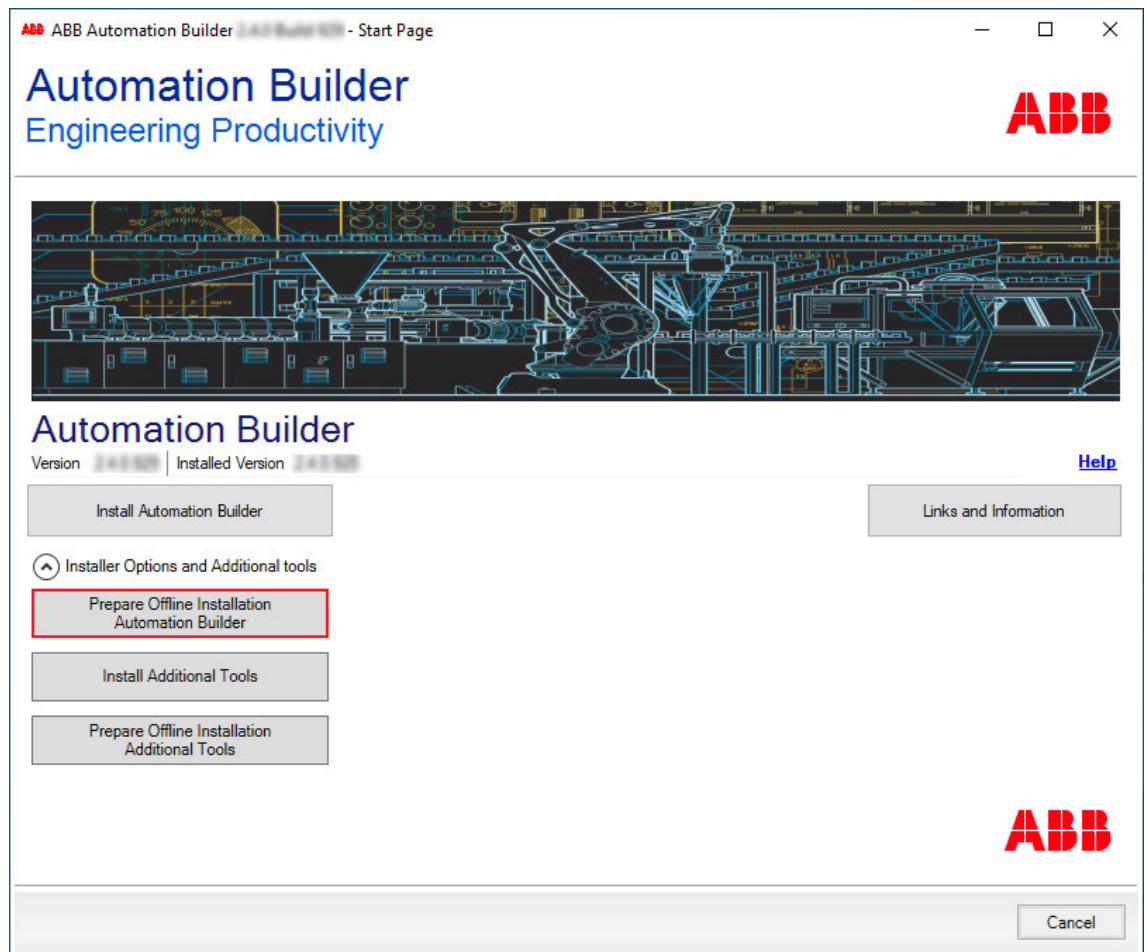


The Automation Builder 2.6 is the first version that is also available as 64-bit version with a separate installer. The 64-bit version is required for handling of large projects.

For accessing any previous Automation Builder version it is recommended to install Automation Builder 2.5. During the installation it is possible to add older version profiles (Automation Builder 2.4 and earlier) to the installation scope.

With an already installed AB, the user must decide whether and how to perform an update:

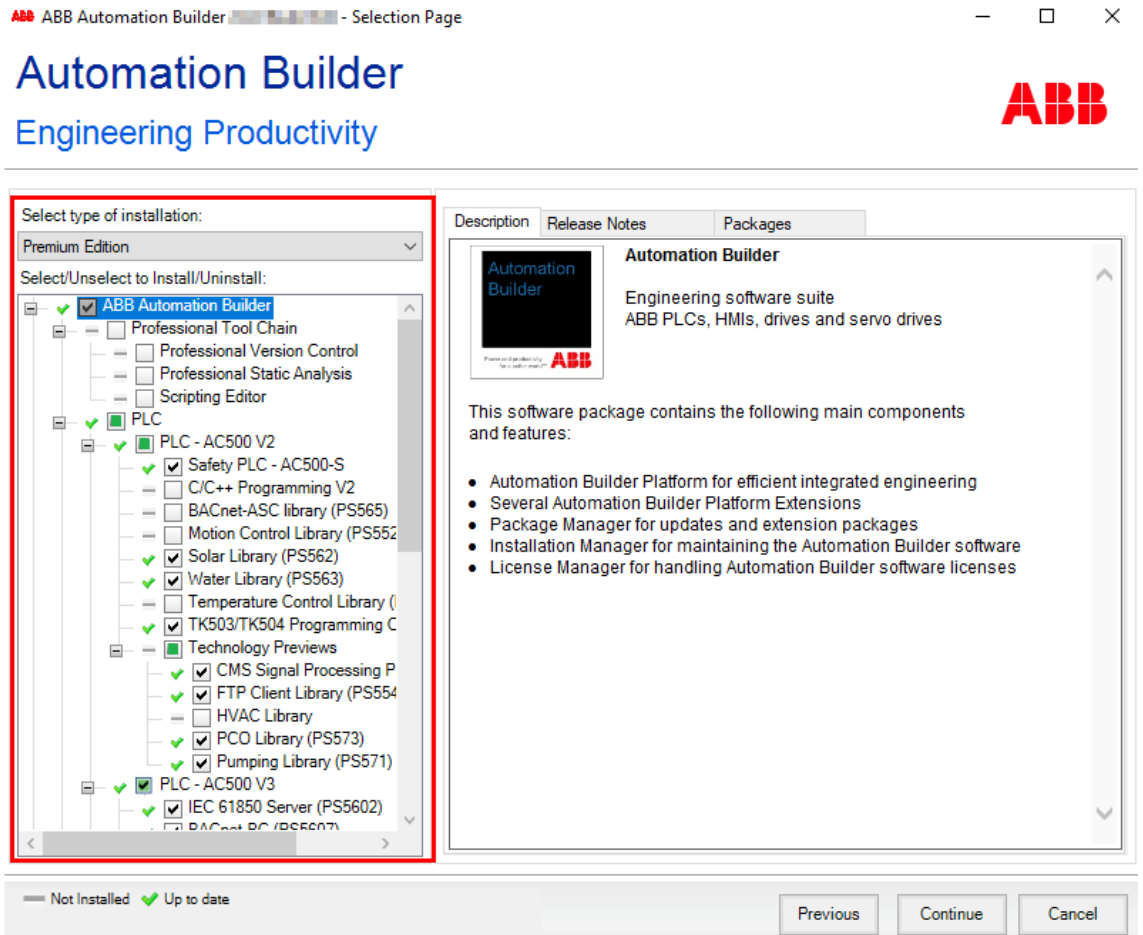
- If they have AB 2.4 or earlier, they should install AB 2.5 with the corresponding version profiles.
 - If they want to download and install either the 32-bit version or the 64-bit version.
3. Open the downloaded installer and open “*Installer Options and Additional tools*”
 4. Select “*Prepare Offline Installation Automation Builder*”.



5. Keep the default type of installation to “Premium Edition”.
6. Select the software packages to be installed.



- The here checked components are available in the offline installation package.
- Which components will be finally installed needs to be selected when performing the offline installation on the offline PC itself.
- So it might be better to select more/all components for this offline installation package to have the choice at the installation later on.



7. Select “Download” and a directory where the offline installation package will be saved.
8. Transfer the offline installation package to the offline PC.
9. Install the Automation Builder and follow the instructions of the installation manager.



If you install Automation Builder 2.5 after installing Automation Builder 2.6, it is recommended to execute the installer of Automation Builder 2.6 to make sure that the latest version of all shared components is available. The reason for this recommendation is that Automation Builder versions prior to 2.6 have not been prepared for side-by-side installation.

2.5 Installing additional tools and libraries

Sometimes the installation and activation of additional tools, e.g. OPC Server, Panel Builder 600, is needed without the whole installation of the Automation Builder Suite.

They can be installed separately and independent of the Automation Builder.

Various additional tools are available, e.g.

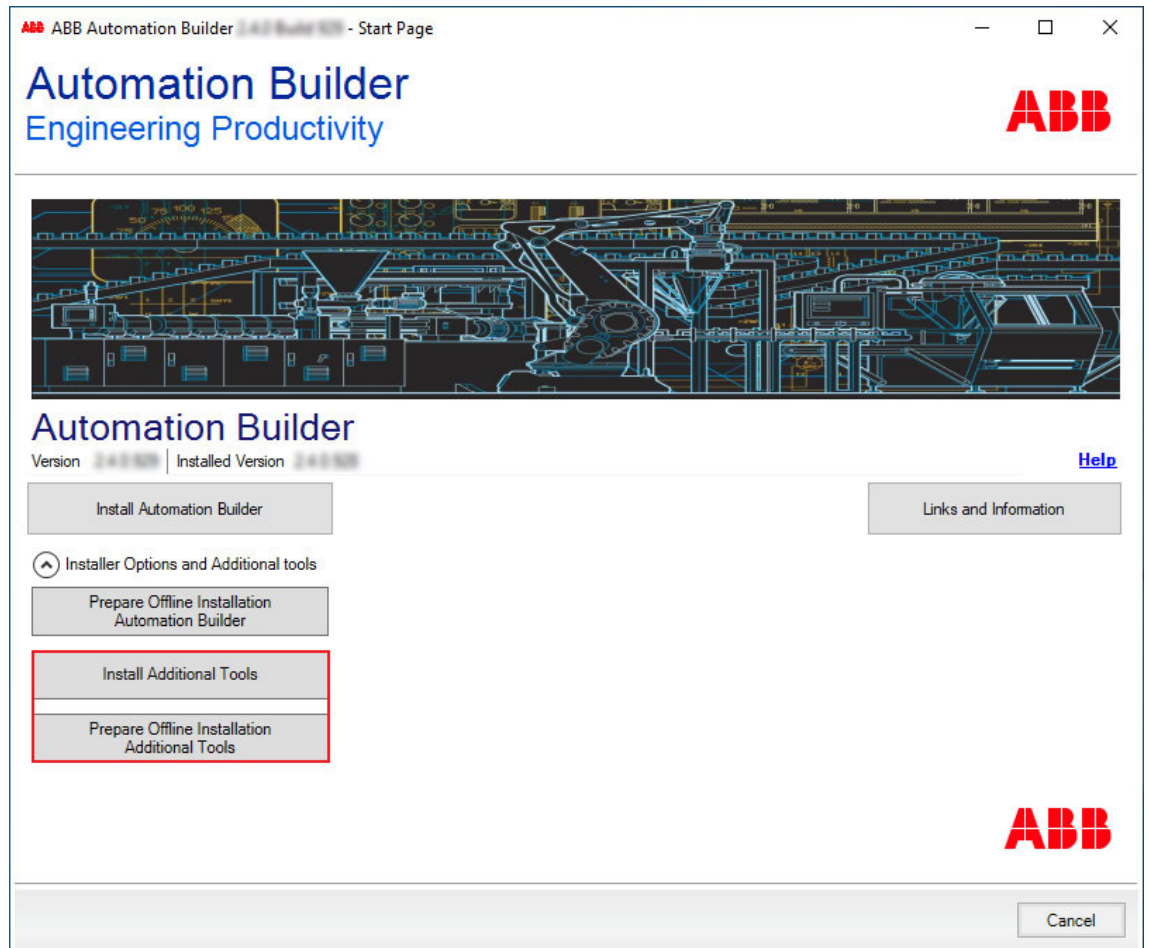
- ABB License Manager
- CODESYS OPC DA Server
- IP Configuration Tool
- MultiOnlineChange Tool

- Control Panel – CP600
- Panel Builder 600 Runtime for PC

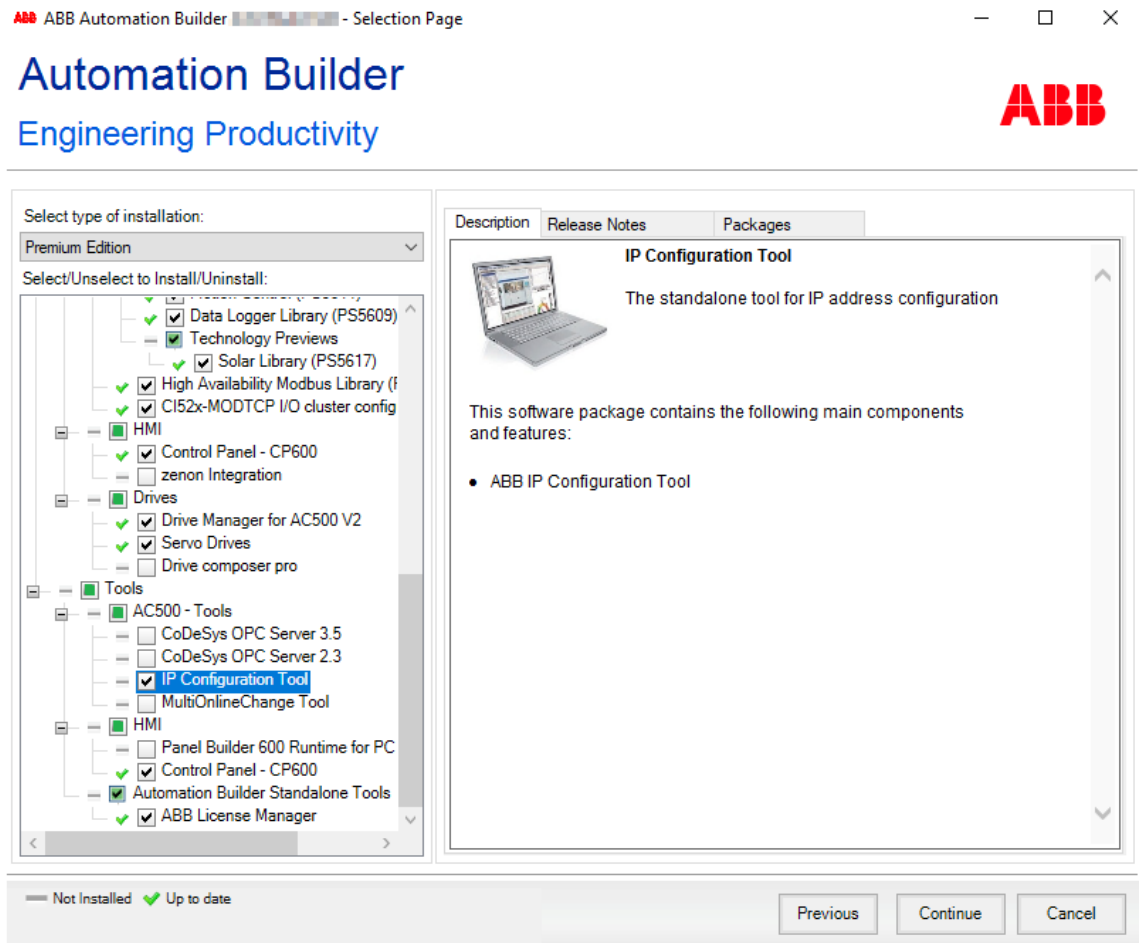
The additional tools have to be installed in the same way, as the Automation Builder ↗ *Chapter 2.3 “Installing Automation Builder on an online PC” on page 12* ↗ *Chapter 2.4 “Installing Automation Builder on an offline PC” on page 14.*

Installing additional tools

1. In the Automation Builder setup menu under “*Installer Options and Additional tools*” select “*Install Additional Tools*” or “*Prepare Offline Installation Additional Tools*”



2. Select the tools you want to install.
In the tab “Packages” you can see which components will be installed.
3. Select “*Download and install*”



After installing additional Solution Libraries their licenses needs to be activated using an activation key ➔ [Chapter 3 “Licensing” on page 21.](#)

2.6 Migration of third party devices

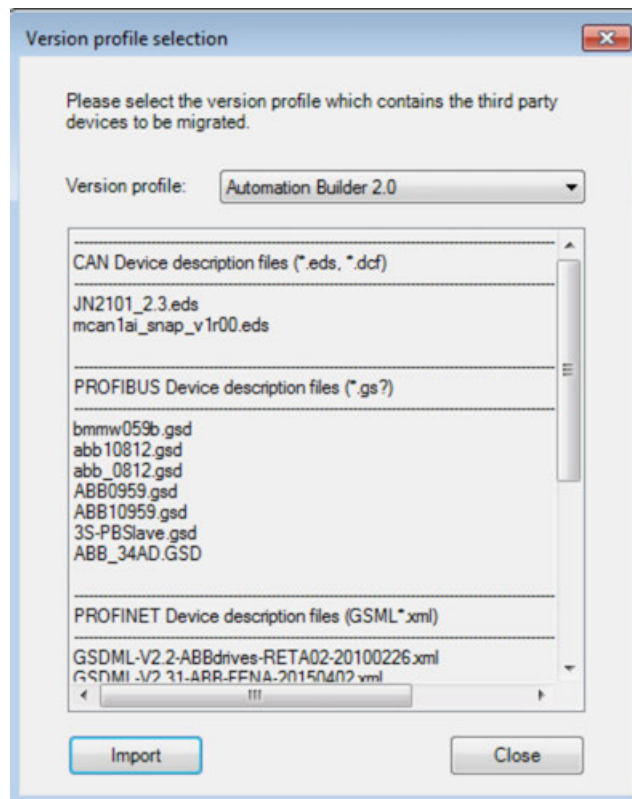
After an update of Automation Builder the device repository contains only ABB devices. The third party devices which were installed into previous versions of Automation Builder are not automatically installed in the newest version profile. This has to be triggered by the user.



The feature “Migrate third party devices” is available as of Automation Builder 2.1.1.

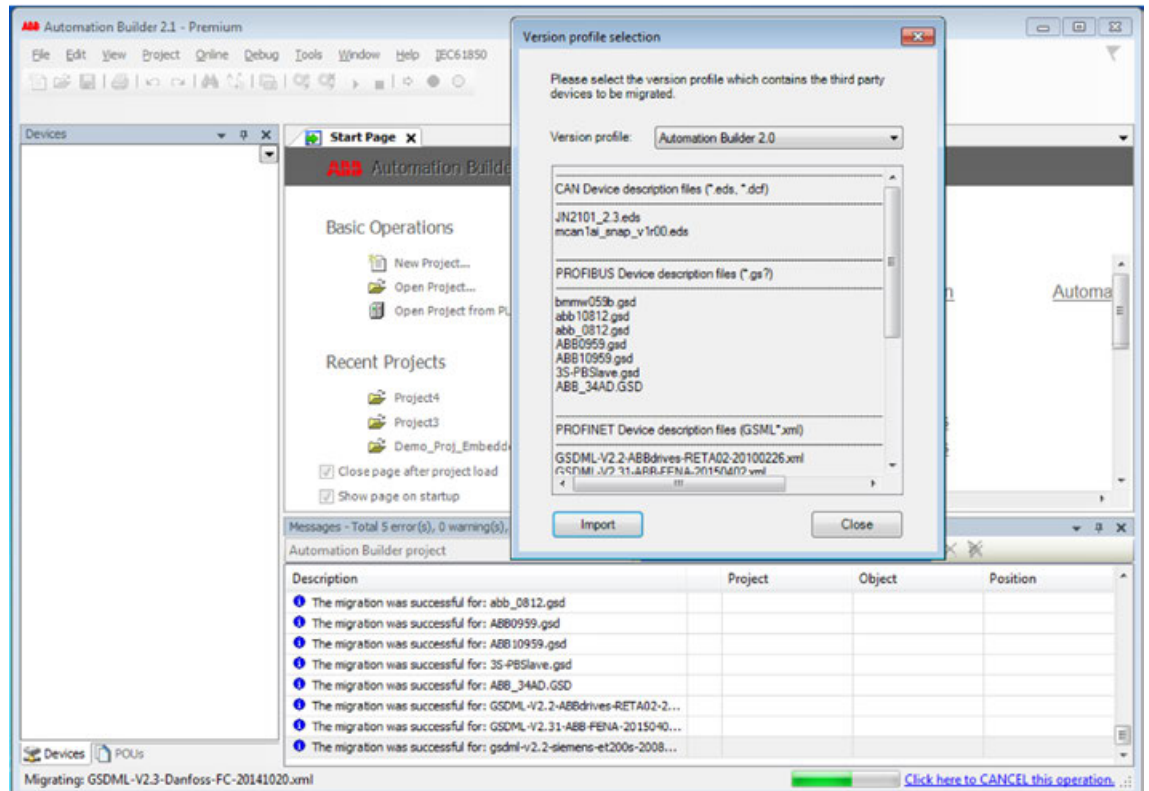
1. Click “Tools” in the main menu of Automation Builder.
2. Click “Migrate third party devices” in the drop-down list.
 - ⇒ The window “Version profile selection” appears.

3. Select a version profile in the drop-down list containing previous Automation Builder / Control Builder Plus profiles. The active profile does not appear in the list.
 - ⇒ After selection of a previous version profile, all the third party devices which have been installed inside this version profile are listed.



It is not possible to select or deselect some third party devices. Importing will affect all the third party devices which are listed in the list view.

4. Select *[Import]*.



⇒ During the migration the message window displays success or failure of device migration.



In case of failure during the migration the affected third party device description has to be installed manually via main menu “Tools → Device Repository → Install”.

In the status bar, the third party device which is on “*Migrating: <...>*” is displayed on the left side.

The import operation can be cancelled by clicking the “*Click here to CANCEL this operation*” link on the right side of the status bar. This becomes effective when the migration of the just migrating third party device is finished.

5. To close the dialog select the *[Close]* button of the *Version profile selection*.

2.7 Uninstallation of Automation Builder

Starting with Automation Builder 2.6, uninstallation can be done separately.



For technical reasons, there are some common components between the different versions of Automation Builder. Even if you install Automation Builder versions side-by-side, these components are still shared. Examples of shared components are AC500 V2 libraries or CODESYS engineering and gateway.

Shared components will only be uninstalled when the last Automation Builder installation is uninstalled.

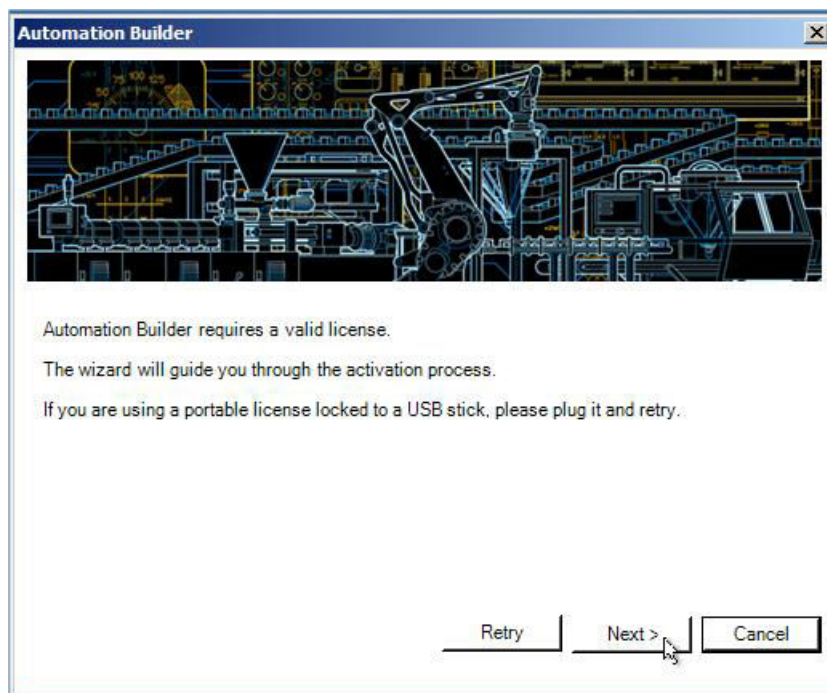
3 Licensing

3.1 Starting the licensing process

Depending on what kind of license you want to activate there are three different starting points:

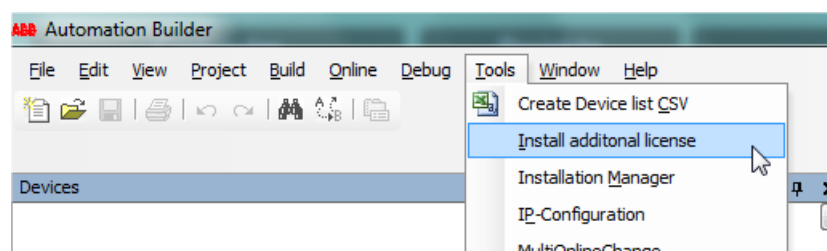
To activate an Automation Builder license (basic, standard or premium)

- ▷ On startup the Automation Builder will check if a valid license is available.
If no valid license can be found the license activation wizard is started ↗ [Chapter 3.3 “Activating Automation Builder license” on page 22.](#)



To activate an additional engineering license

1. Close and save all open projects in the Automation Builder.
2. In the Automation Builder menu select “Tools → Install additional license”



To activate a license for a standalone tools

- ☒ Automation Builder License Manager must be installed ↗ [Chapter 2.5 “Installing additional tools and libraries” on page 16.](#)
- ▷ From the windows start menu: “Windows start menu → ABB → Automation Builder”.

3.2 Registration

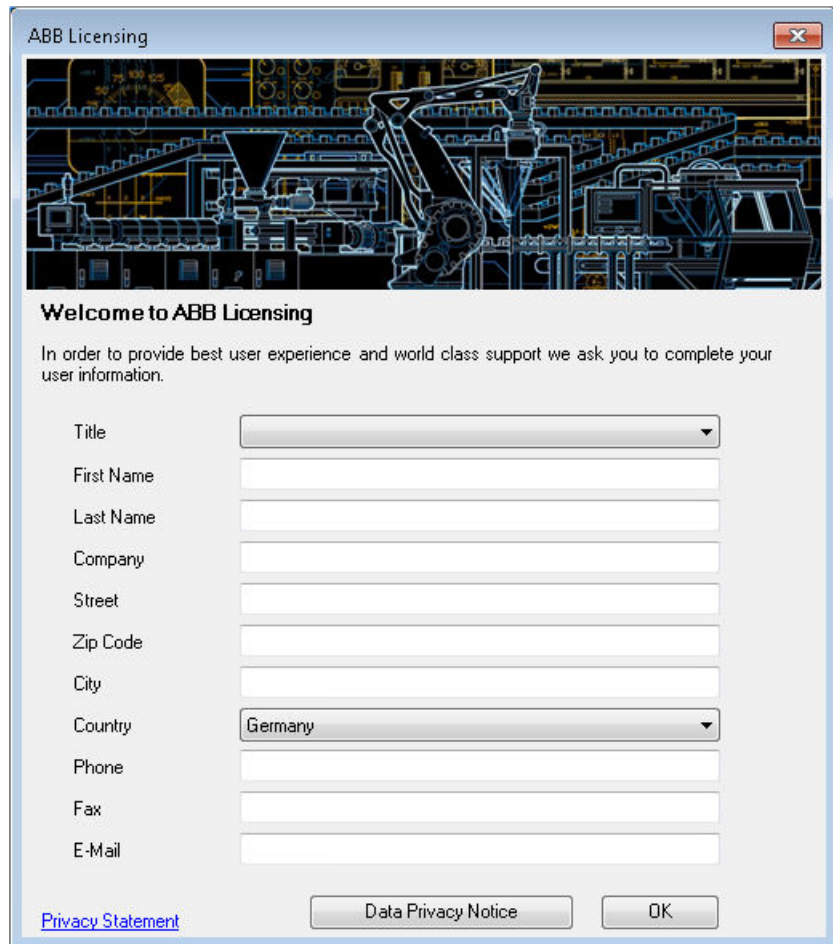
On first startup of Automation Builder you are asked to register. The registration information is stored on your PC and shared with ABB.

In case of future support requests, your registration details enable ABB support team to handle your questions quickly.

For details please refer to the Privacy Statement of the Automation Builder [End User License Agreement](#).

1. Start Automation Builder for the first time.
2. Optionally fill out the registration form.

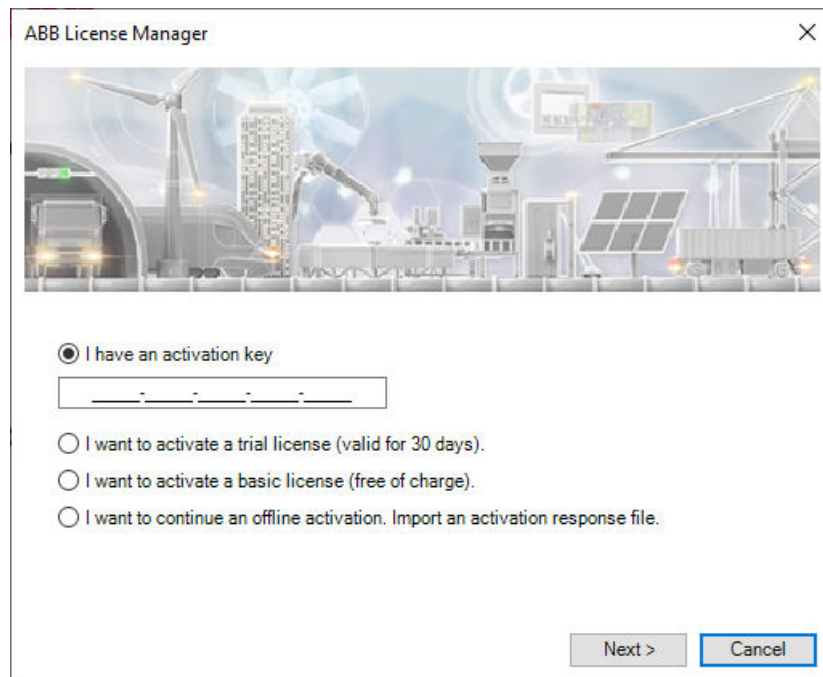
By making use of entering your contact data during the registration, you provide ABB with your personal data and state that you are interested in receiving notifications in case of severe vulnerabilities or other security issues. Your data may therefore be used for establishing contact with you.



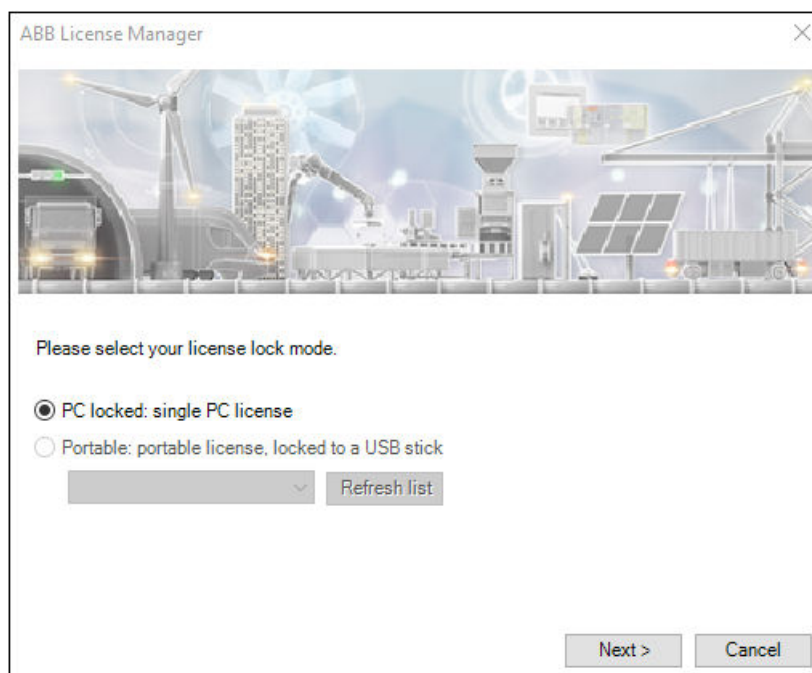
3. Continue the license activation.

3.3 Activating Automation Builder license

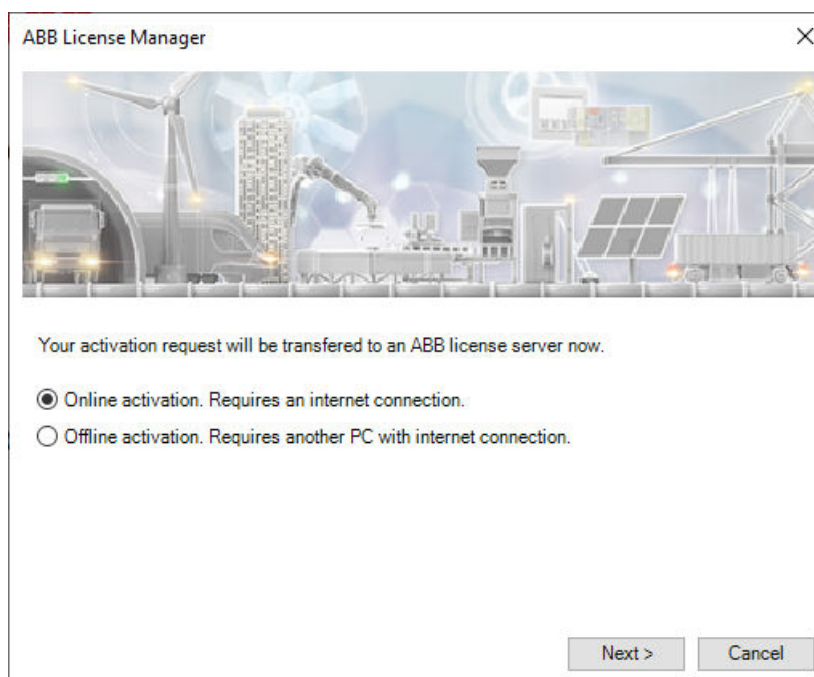
- ☒ Automation Builder software must be installed successfully.
1. Start Automation Builder.
 - ⇒ A licensing wizard starts and guides you through the licensing procedure.
 2. If you purchase a license that is locked to a flash drive, plug in the device and select *[Next]*.



- | | |
|--------------------|---|
| Activation key | Enable this option and enter the key. For further information on how to receive this key, contact ABB sales team. |
| Trial license | You can test Automation Builder software with a trial version in premium edition. In this case no activation key is required. |
| Basic license | You can install Automation Builder software in basic edition. In this case no activation key is required. |
| Offline activation | This is required in case of unavailability of internet on the PC ↗ <i>Chapter 3.3.2 "Offline activation" on page 25.</i> |
3. Choose an activation mode and select *[Next]*.



4. Select the license lock mode according to your purchased license and select *[Next]*.
- If you hold a single PC license, choose PC locked option to license and lock Automation Builder software to the current PC.
 - If you hold a license for portable Automation Builder software, plug a USB drive, enable Portable option and choose your USB drive from the drop-down list. With this, a portable Automation Builder license is created, which allows to operate Automation Builder software on any PC.



5. Select the activation mode and select *[Next]*.
- Select *“Online Activation”* ↗ Chapter 3.3.1 *“Online activation”* on page 25 if the PC has access to the internet else
 - Select *“Offline Activation”* ↗ Chapter 3.3.2 *“Offline activation”* on page 25.

3.3.1 Online activation

The activation data can be sent to ABB License server if the current PC contains internet access.

1. Enable “*Online Activation*” and select *[Next]*.
 - ⇒ Activation procedure starts. A successfully ended licensing procedure ends with a success message.
2. Select *[OK]* to end the wizard.
 - ⇒ Automation Builder license is activated and starts.

3.3.2 Offline activation

The activation data cannot be sent to the licensing server if the PC does not have internet access. In this case, the offline activation file is created. This file can be used to transfer activation data to the licensing server from another PC with internet access.

1. Enable “*Offline Activation*” and select *[Next]*.
2. From the file system choose a shareable location (e.g., a shared folder or a USB drive).
 - Enter a file name and select *[Save]*. An activation file is created and stored to the selected directory.



Do not close (Cancel) or proceed (Next) the wizard. The license activation is made from a PC with internet availability.

3. Transfer the activation file to a PC with internet availability.

HOME English ABB

Automation Builder - Offline Activation

Upload activation request Download activation response Upload activation receipt

Activating your licenses offline - First step "Upload activation request":

1. Create an activation request file with the Automation Builder Activation Wizard.
2. Pick the created activation request file.
3. Click "Upload request and continue".

Pick activation request file (*.xml)

Choose File No file chosen

Upload request and continue

4. Upload the activation file to the licensing website <http://lc.codemeter.com/32838/depot>.
 - Follow the instructions.



Default language can be changed with the drop-down menu on the right side of the screen.

⇒ You will receive an activation response file.

5. Store the activation response file to a shareable location (e.g. a shared folder or a USB drive).
6. Transfer the activation response file to the offline PC.
7. On the offline PC select **[Browse]** and select the activation response file from the shareable location.

⇒ Due to security reasons an activation receipt file is created.
8. Enter a file name and store the activation receipt file to a shareable location (e.g. a shared folder or a USB drive).
9. Transfer the activation receipt file to a PC with internet availability.
10. Upload the activation receipt file from the shareable location to the registration website <http://lc.codemeter.com/32838/depot>.
11. On your offline PC enable *"I want to continue an offline activation: Import an activation response file"* and select **[Next]** to launch Automation Builder.

3.4 Activating additional tools and libraries

Sometimes the installation and activation of additional tools, e.g. OPC Server, Panel Builder 600, is needed without the whole installation of the Automation Builder Suite.

They can be installed separately and independent of the Automation Builder.

3.4.1 Activating the Panel Builder 600 and PC-runtime license

The following chapter explains the specialities of installation and / or activation compared to the Automation Builder installation and activation.



If the Panel Builder 600 license was not activated before the first start of Panel Builder 600 an error message will appear.

To activate the license:

1. Start ABB Automation Builder License Manager.
2. Fill out the registration form (optional).

3. Enter your purchased license key.
4. Follow the next steps according to your needs. (PC or dongle bound, online or offline activation).



NOTICE!

For additional tools there is no extra trial license available.

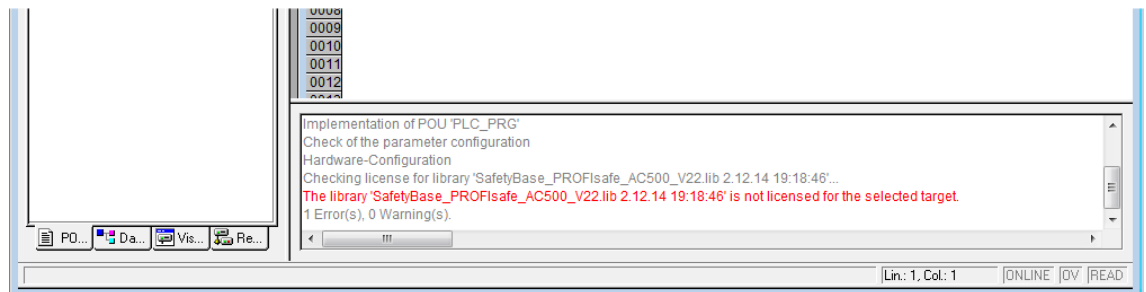
3.4.2 Activating Solution library license

3.4.2.1 Activating your Solution library license

To activate the purchased license of solution libraries, e.g., Water Pumping library or Temperature Control, please follow the below explained steps:

- ☒ Activated Automation Builder license.
- 1. Start Automation Builder.
- 2. Close any open projects.
- 3. Select **Tools → Install additional license**.
- 4. Follow the license wizard and activate your purchased license code in online or offline mode. The principle is the same as activating the Automation Builder license [↗ Chapter 3.3 “Activating Automation Builder license” on page 22.](#)

If you do not have the right license for your library you will receive an error during compilation of your CODESYS application.



3.4.2.2 Checking your activated Solution library license

To check whether or which Solution library licenses you have activated, it is necessary to use the CodeMeter Control Center.

The solution library licenses have separate product codes, that will be added into an already existing Automation Builder license. So there will be no separate CmContainer in the CodeMeter for them.

1. Open the CodeMeter Control Center via **Windows start menu → CodeMeter → CodeMeter Control Center**.
2. Select **WebAdmin**.
3. Select **Container → All Licenses**.
4. Select the CmContainer and browse down searching for the library / product code.

3.5 Managing your licenses

3.5.1 Identifying the installed license

The title bar of the Automation Builder shows the version and the license information (Basic, Standard or Premium).

Be aware of the following rule for this information:

The info in the title bar is taken in this order from the first found license.

- local licenses (on PC)
- on a dongle (USB key)
- network licenses

So if a local license is only basic and a dongle with premium license is inserted the functionality is premium (the highest available) but the information in the title bar is basic.

To check your installed licenses, the CodeMeter Control Center tool can be used.

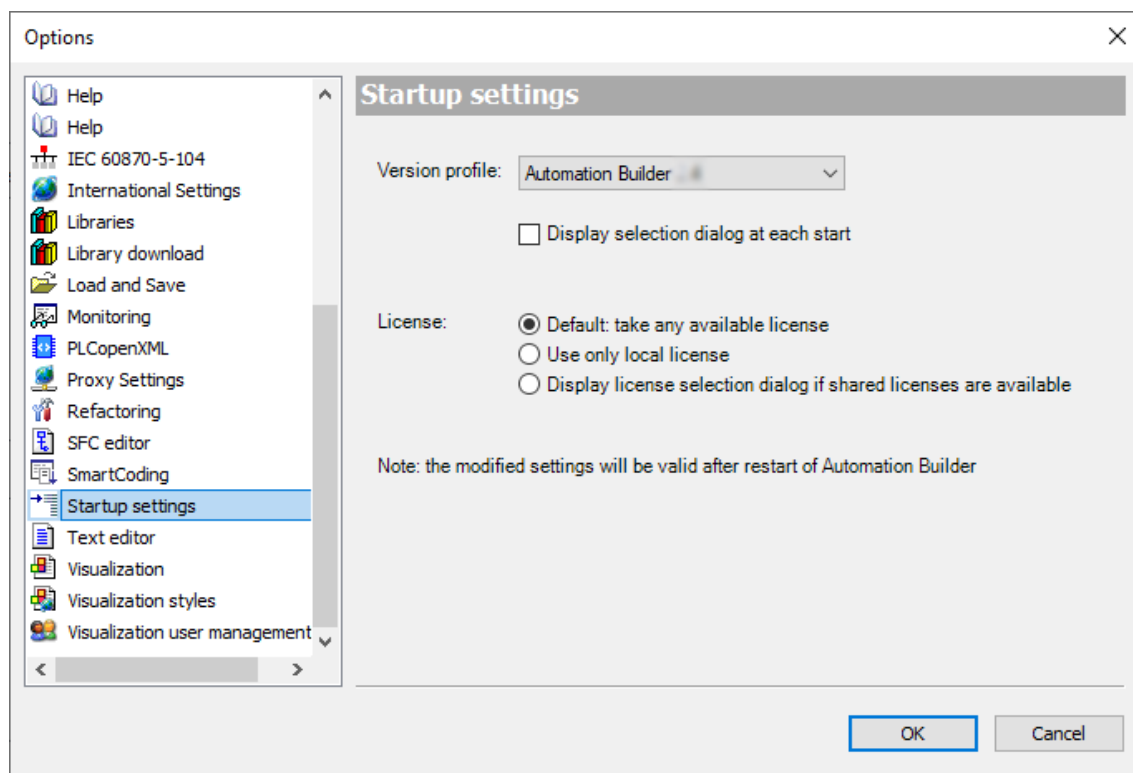
🔗 [Chapter 3.5.3 “Checking licenses with “CodeMeter Control Center”” on page 30](#)

3.5.2 Selecting the license used on Automation Builder startup

You can select, which license the Automation Builder should use on startup.

To select which license should be used:

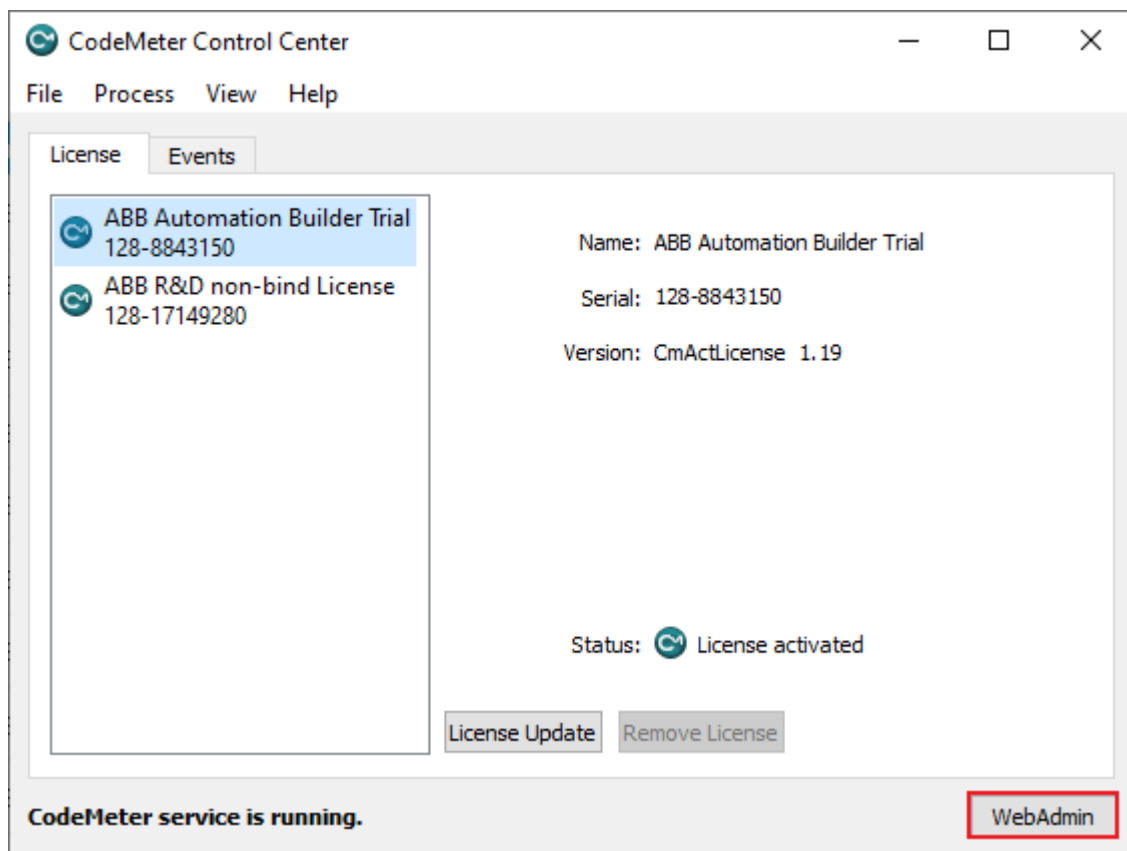
1. In the Automation Builder menu select “*Tools ➔ Options*”.
⇒ The “*Options*” window is opened.
2. In “*Startup settings*” under “*License*” select which license should be used.
 - Default: The most comprehensive available license will be selected
 - Use only local license: Network licenses will never be selected
 - Display licenses selection dialog if shared licenses are available: On every Automation Builder startup, you will be asked to select a license



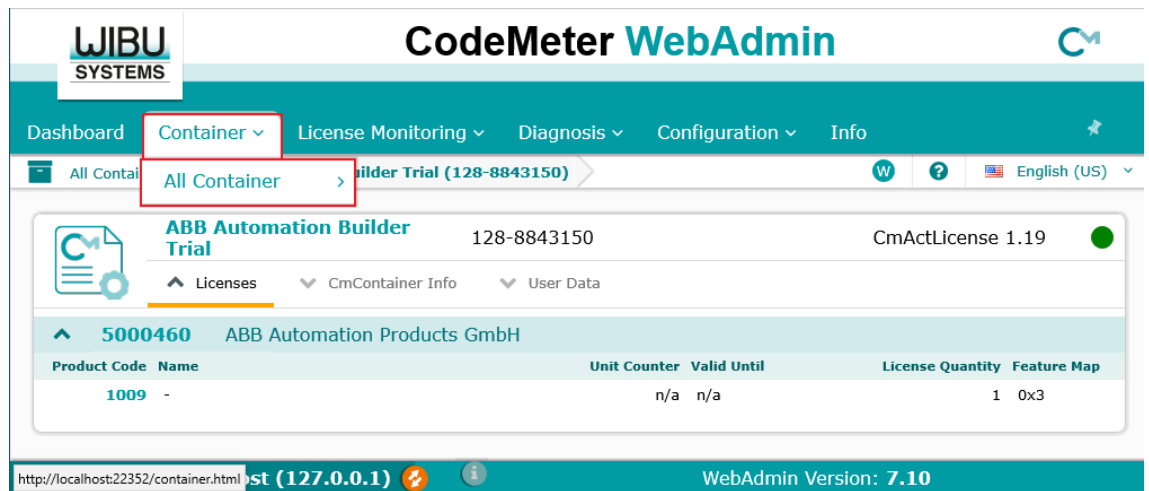
3. To apply the setting select [OK].

3.5.3 Checking licenses with “CodeMeter Control Center”

1. Open the “CodeMeter Control Center” via the “Windows start menu → CodeMeter → CodeMeter Control Center”.

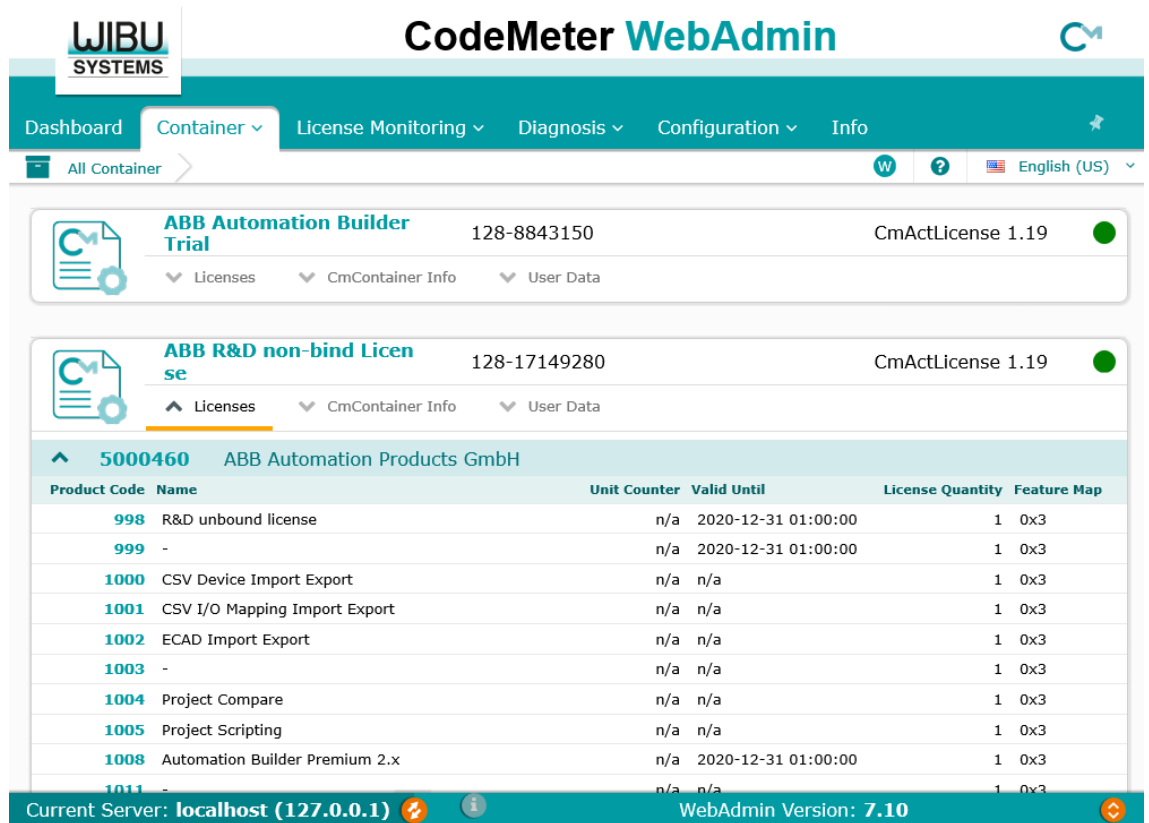


2. In the “CodeMeter Control Center” window you can see the different license “tickets” / “CmContainers” that are installed on your PC.
To see more details, open the “CodeMeter WebAdmin” by selecting [WebAdmin]



3. Select "Container → All Container"

⇒ Here the details of the license containers can be checked.

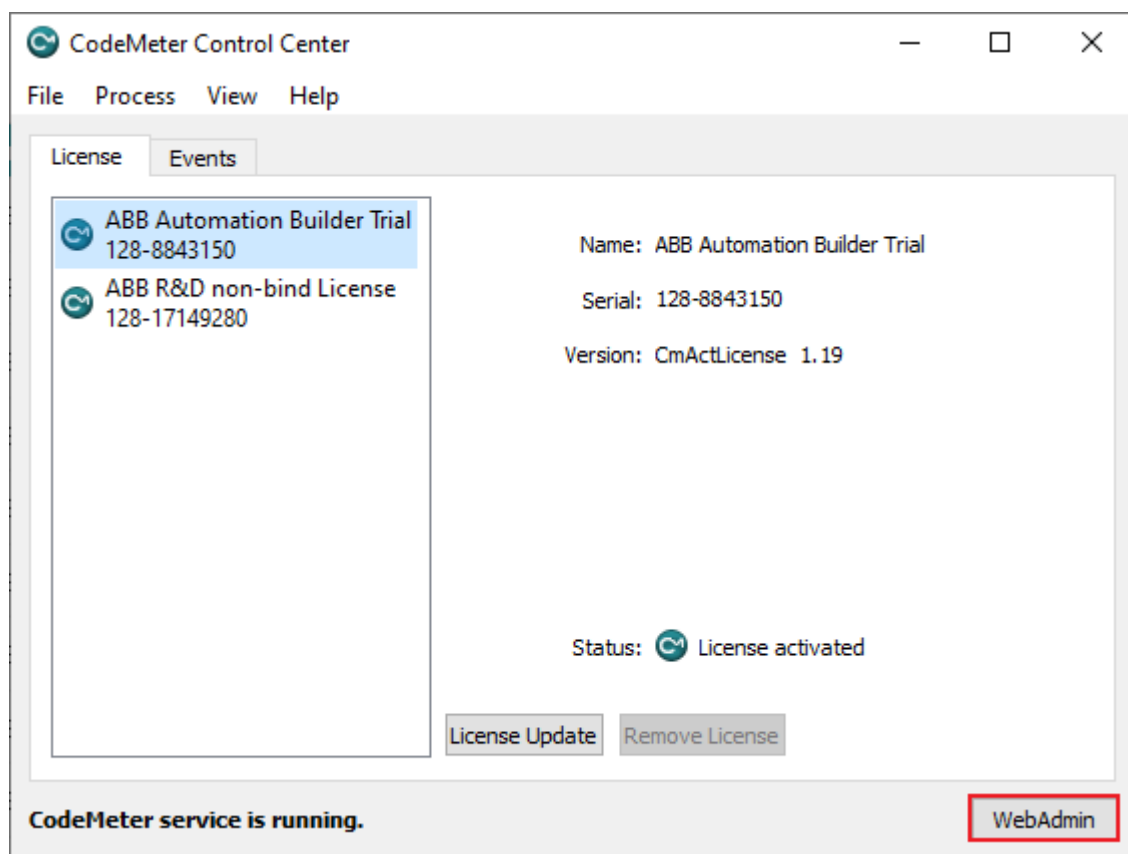


3.5.4 Setting dedicated network servers in search list

In case of a new installation CodeMeter will check for licenses also in the network. If there is a run-out or wrongly installed license found, the service is closed without any further hint. This looks like Automation Builder starts and closes after a few moments.

To set the search for licenses to your local machine only follow these steps:

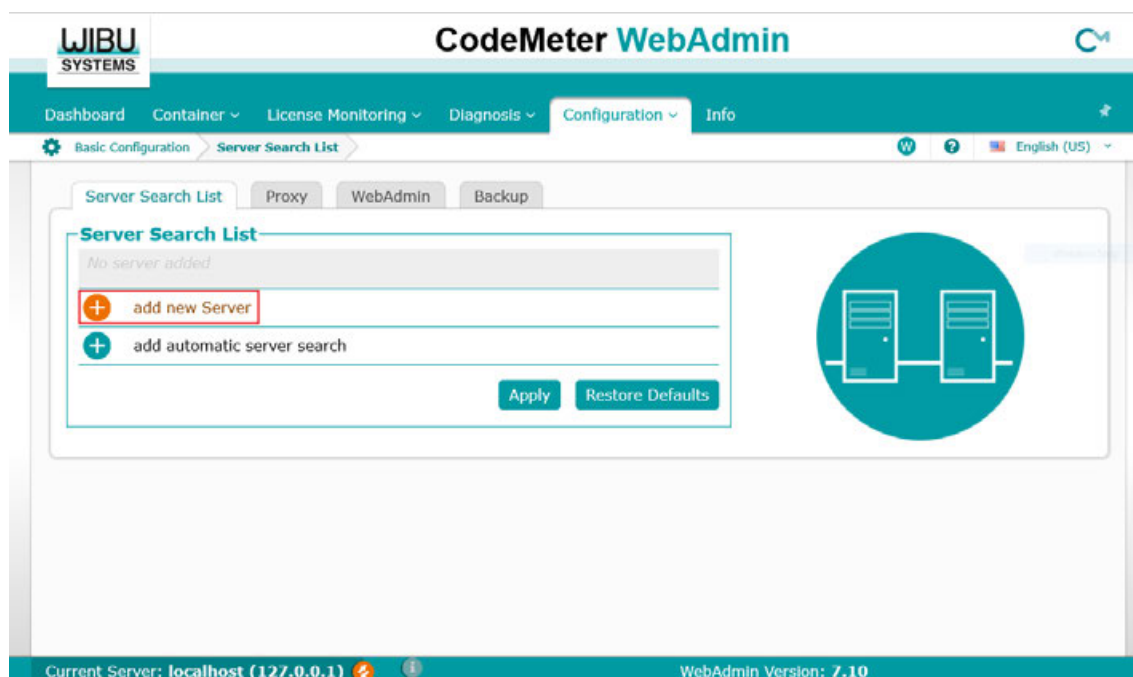
1. Open the CodeMeter Control Center ↗ *Chapter 3.5.3 "Checking licenses with "CodeMeter Control Center" on page 30.*
2. Open the CodeMeter WebAdmin by selecting [WebAdmin]



3. Select "Configuration → Basic → Server Search List"



4. Select "add new Server"



5. Enter "localhost" in the Server's names field
6. Select *[Add]*
7. Confirm by selecting *[Apply]*
 - ⇒ The "localhost" is added to the Server Search List

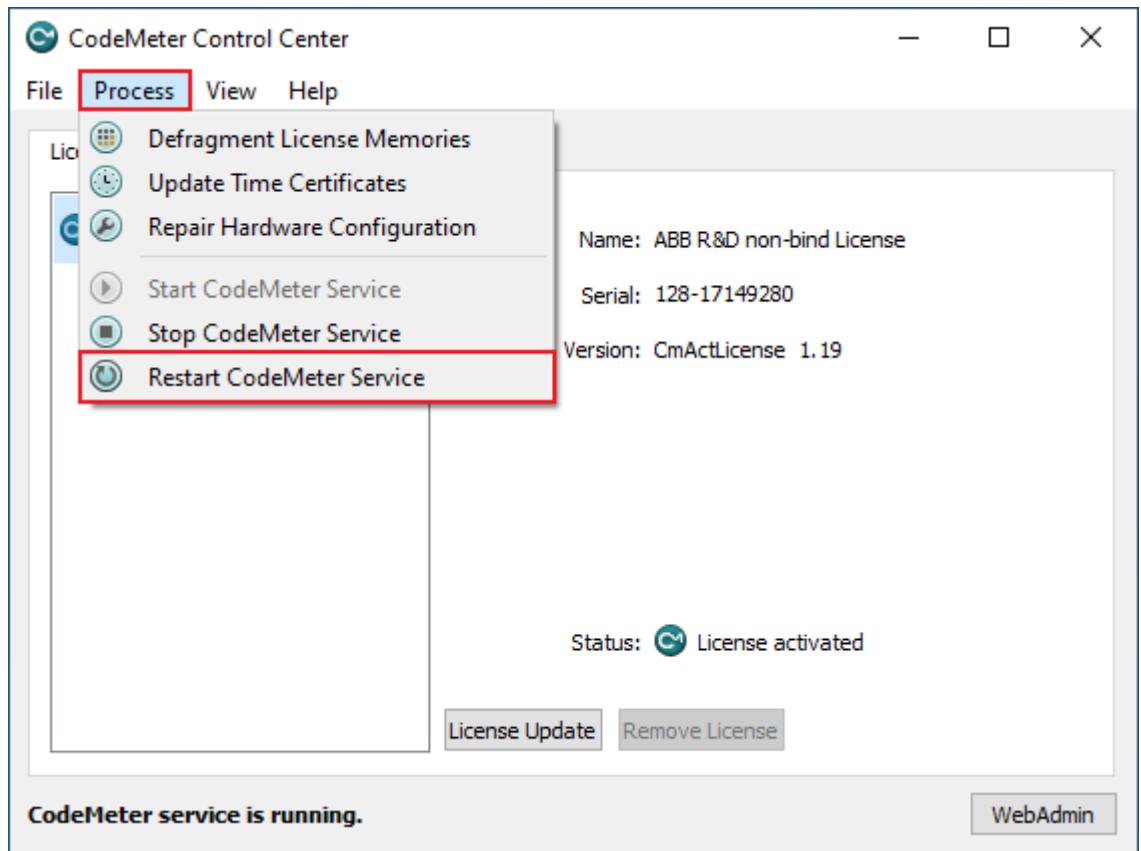


8. Restart the license check
9. Add more servers to the search list by entering the IP address or name of the license servers you know.

3.5.5 Restarting license check with a dongle bound license

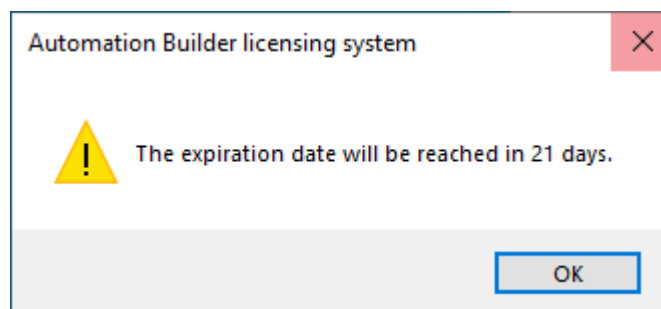
In case of using a dongle bound license it might be necessary to restart the check for license on the PC, e.g. if the dongle was removed and reinserted.

1. Open the CodeMeter Control Center ➔ *Chapter 3.5.3 “Checking licenses with “CodeMeter Control Center”” on page 30.*
2. Select “Process ➔ Restart CodeMeter Service”



3.5.6 Removing trial license to remove expiring message

If an unlimited license is installed after having a trial license activated, the warning message for expiring date of the trial license still pops up at the Startup of the Automation Builder.



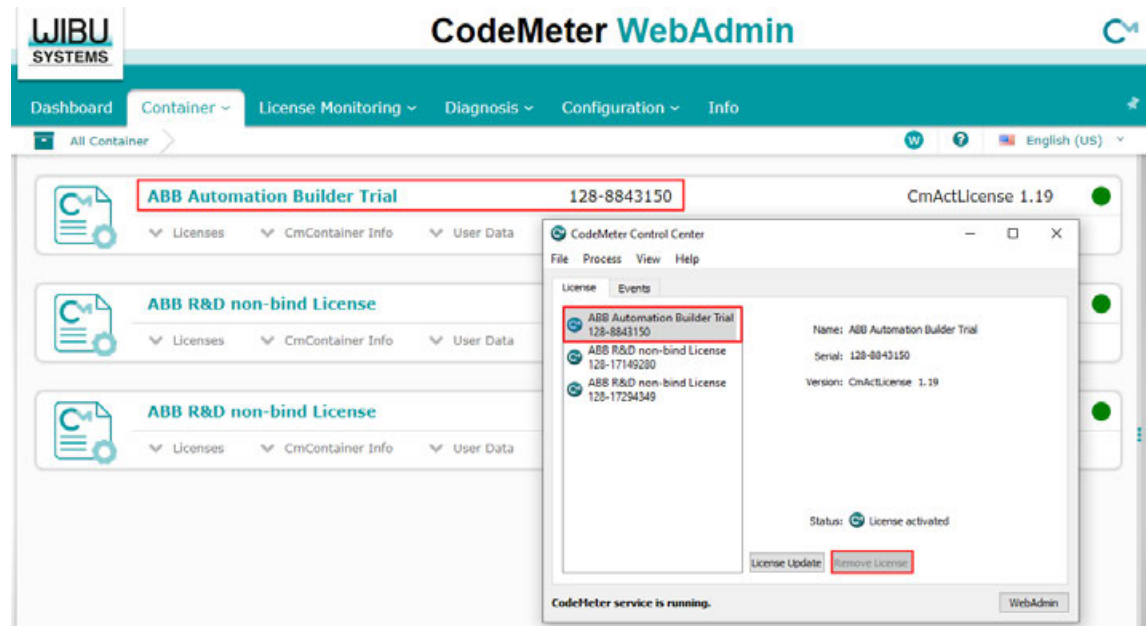
To avoid this message the trial license can be removed.



CAUTION!

- If you remove a license from your PC it will be permanently lost.
- Be aware that the trial license includes all premium functionalities, which will not be available any more if your unlimited license is not a premium license, e.g. standard.

1. Check for the Trial CmContainer number in CodeMeter WebAdmin Interface
2. Search CmContainer number in CodeMeter Control Center



3. Remove this selected license in CodeMeter Control Center

3.5.7 Network licenses

3.5.7.1 General

It allows sharing of licenses between team members, easy switchover between several workstations with a single license and allows centralized administration (ordering, registration, activation).

The Automation Builder License Manager and CodeMeter need to be used to configure the network server.



- In a typical office LAN (Local Area Network) setup on Client side the default settings of the Automation Builder (and CodeMeter) are sufficient to get the Network Licenses working.
- If an opened Automation Builder is losing contact to the network server (e.g. due to network problems) Automation Builder will prompt the user to restore the network. After 30 minutes without connection to the network server Automation Builder will fall back to basic edition. Opened editors for non-basic features stay open and usable. So your work will not be lost in case of troubles with the network.

🔗 Information on how to borrow and return a network license.

The network licenses can be used as of Automation Builder 1.2.0.

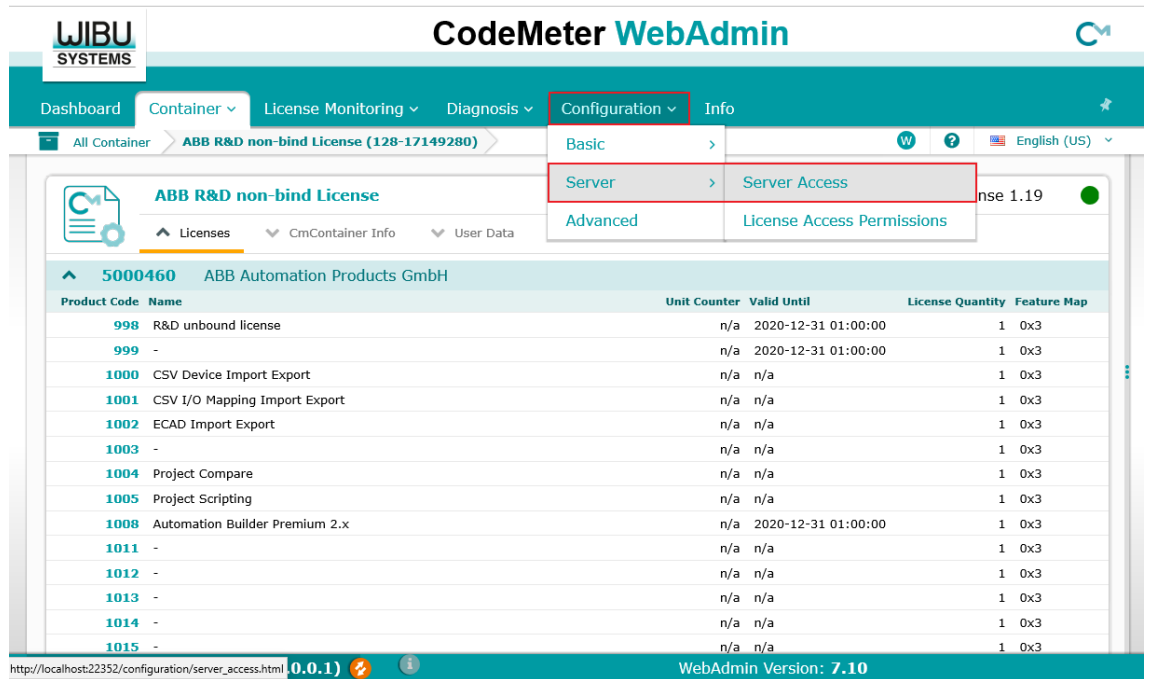
3.5.7.2 Setting up a network license

3.5.7.2.1 General

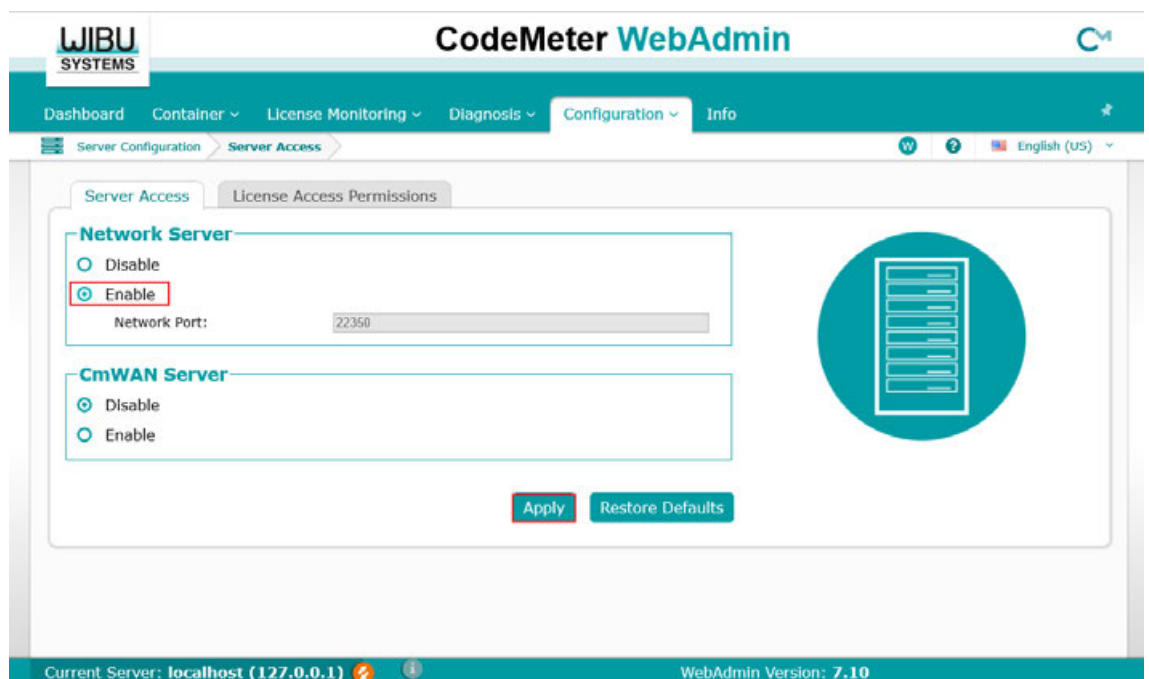
The following setup works in typical environments.

3.5.7.2.2 Configuring a network license server

- ☒ Network license must be registered.
- ☒ Automation Builder license must be activated.
- 1. Launch CodeMeter WebAdmin as described in chapter 'Managing your licenses'
↳ Chapter 3.5 "Managing your licenses" on page 28
- 2. Select "Configuration → Server → Server Access"



- 3. Enable Network Server
Keep the default port settings. These should work in most cases.
- 4. Select [Apply]



- 5. For the changes to take effect, restart CodeMeter Control Center ↳ Chapter 3.5.5 "Restarting license check with a dongle bound license" on page 33



NOTICE!

- In case you want to control usage of network licenses please refer to chapter 'View network server license usage' & *Chapter 3.5.7.4 "View network server license usage" on page 38*
- Activation keys for network licenses are valid for one network license each. This one license can be shared among many people but only one Automation Builder instance at the same time. If you want to run more than one Automation Builder instance at the same time you have to activate more than one network license. This means you have to purchase and enter more than one activation key (one per license).

3.5.7.2.3 Configuring the client side

The default settings of Automation Builder and the CodeMeter (on client side) are sufficient in most cases to get the network licenses working. In case of problems accessing the network license, please set the server search list on the client side.

The screenshot shows the 'Server Search List' configuration page. The top navigation bar includes 'Dashboard', 'Container', 'License Monitoring', 'Diagnosis', 'Configuration', and 'Info'. Below this, there are tabs for 'Basic Configuration' and 'Server Search List'. The 'Server Search List' tab is active, showing a list of servers. The first entry is '1. Automatic server search (255.255.255.255)' with a trash icon. Below the list is a '+ add new Server' button. At the bottom right, there are 'Apply' and 'Restore Defaults' buttons.

3.5.7.3 View network server licenses

On the Network Server side you can find information on existing network licenses and their current allocation.

1. Launch CodeMeter WebAdmin ↗ Chapter 3.5.3 “Checking licenses with “CodeMeter Control Center”” on page 30.
2. Select “License Monitoring → All Licenses ”

The screenshot shows the CodeMeter WebAdmin interface. The top navigation bar includes 'Dashboard', 'Container', 'License Monitoring' (selected), 'Diagnosis', 'Configuration', and 'Info'. Below the navigation bar, there's a section titled 'Available Licenses on OVAEXPWIN10'. It displays a table of licenses for '5000460 ABB Automation Products GmbH'. The table has columns: Product Code, Name, Feature Map, License Quantity, User Limit (Borrowed), No User Limit, Exclusive, Shared, and Available. The table lists 14 licenses with various product codes and names. Below the table, it states 'Information last updated on 2020-12-09 10:36:15'. At the bottom, a status bar shows 'Current Server: localhost (127.0.0.1)' and 'WebAdmin Version: 7.10'.

Product Code	Name	Feature Map	License Quantity	User Limit (Borrowed)	No User Limit	Exclusive	Shared	Available
998	R&D unbound license	0x3	1	0 (-)	0	0	0	1
999	-	0x3	1	0 (-)	0	0	1	0
1000	CSV Device Import Export	0x3	1	0 (-)	0	0	1	0
1001	CSV I/O Mapping Import Export	0x3	1	0 (-)	0	0	1	0
1002	ECAD Import Export	0x3	1	0 (-)	0	0	1	0
1003	-	0x3	1	0 (-)	0	0	0	1
1004	Project Compare	0x3	1	0 (-)	0	0	1	0
1005	Project Scripting	0x3	1	0 (-)	0	0	1	0
1008	Automation Builder Premium 2.x	0x3	1	0 (-)	0	0	1	0
1009	-	0x3	1	0 (-)	0	0	0	1
1011	-	0x3	1	0 (-)	0	0	0	1
1012	-	0x3	1	0 (-)	0	0	0	1
1013	-	0x3	1	0 (-)	0	0	0	1
1014	-	0x3	1	0 (-)	0	0	0	1

3.5.7.4 View network server license usage


1. Launch CodeMeter WebAdmin ↗ Chapter 3.5.3 “Checking licenses with “CodeMeter Control Center”” on page 30.
2. Select “License Monitoring → Sessions ”

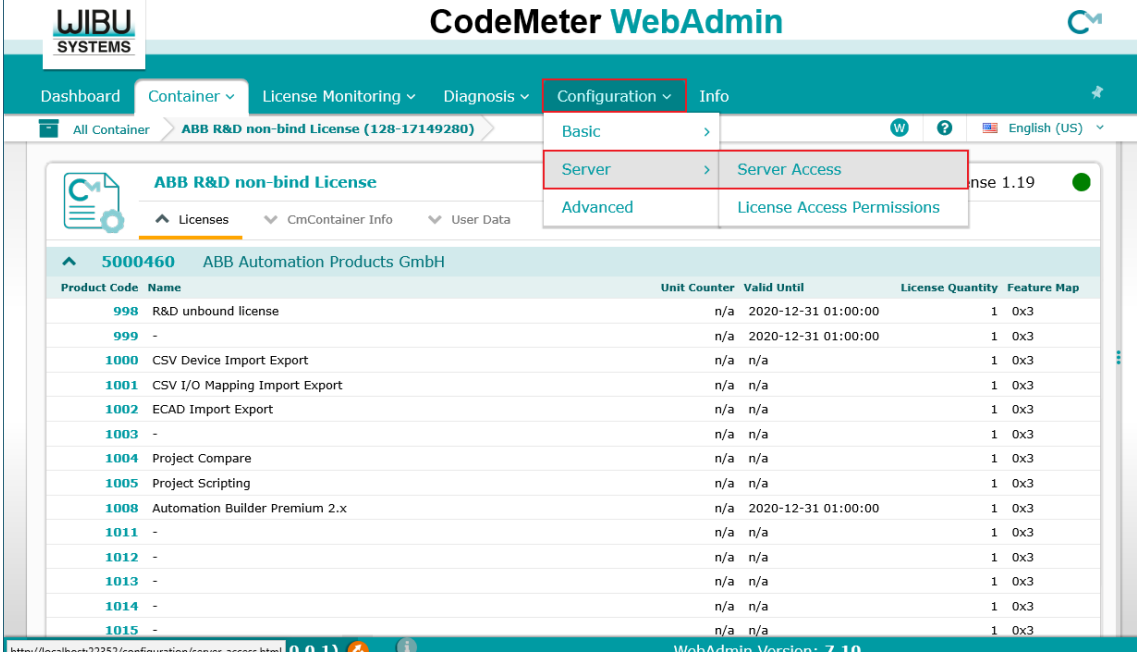
The screenshot shows the CodeMeter WebAdmin interface. The top navigation bar includes 'Dashboard', 'Container', 'License Monitoring' (selected), 'Diagnosis', 'Configuration', and 'Info'. Below the navigation bar, there's a section titled 'Sessions'. It displays a table of sessions. The table has columns: Client, CmContainer, Firm Item, Product Item, and Access Mode. The table lists 10 sessions, all from 'localhost' and 'ABB R&D non-bind License (128-17149280)'. Below the table, it states 'Information last updated on 2020-12-09 10:41:34'. At the bottom, a status bar shows 'Current Server: localhost (127.0.0.1)' and 'WebAdmin Version: 7.10'.

Client	CmContainer	Firm Item	Product Item	Access Mode
localhost	ABB R&D non-bind License (128-17149280)	5000460 : ABB Automation Products GmbH	12000 : Virtual Commissioning	Station Share
localhost	ABB R&D non-bind License (128-17149280)	5000460 : ABB Automation Products GmbH	12000 : Virtual Commissioning	Station Share
localhost	ABB R&D non-bind License (128-17149280)	5000460 : ABB Automation Products GmbH	2013 : Open Device Type Editor	Station Share
localhost	ABB R&D non-bind License (128-17149280)	5000460 : ABB Automation Products GmbH	2010 : Advanced IO device handling	Station Share
localhost	ABB R&D non-bind License (128-17149280)	5000460 : ABB Automation Products GmbH	1008 : Automation Builder Premium 2.x	Station Share
localhost	ABB R&D non-bind License (128-17149280)	5000460 : ABB Automation Products GmbH	1008 : Automation Builder Premium 2.x	Station Share
localhost	ABB R&D non-bind License (128-17149280)	5000460 : ABB Automation Products GmbH	1005 : Project Scripting	Station Share
localhost	ABB R&D non-bind License (128-17149280)	5000460 : ABB Automation Products GmbH	1004 : Project Compare	Station Share
localhost	ABB R&D non-bind License (128-17149280)	5000460 : ABB Automation Products GmbH	1004 : Project Compare	Station Share
localhost	ABB R&D non-bind License (128-17149280)	5000460 : ABB Automation Products GmbH	1002 : ECAD Import Export	Station Share

3.5.7.5 Controlling network server license usage

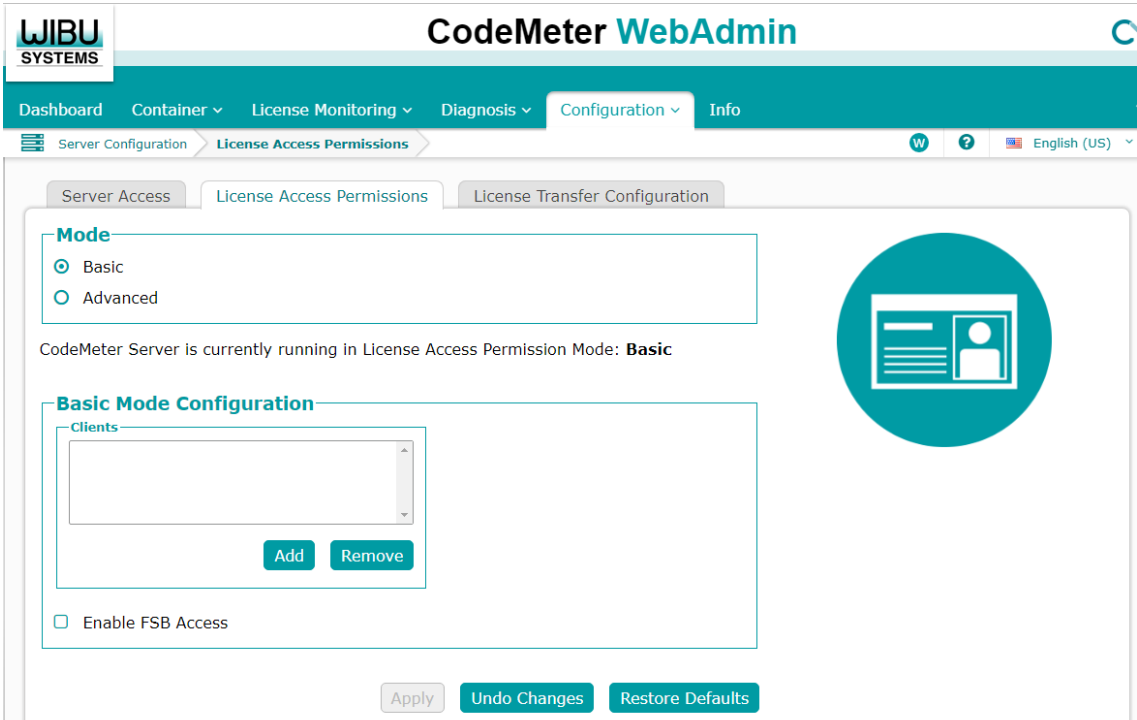
On the Network Server side you can define settings managing the client access to CodeMeter License Server on a network.

1. Launch CodeMeter WebAdmin  Chapter 3.5.3 “Checking licenses with “CodeMeter Control Center”” on page 30.
2. Select “Configuration → Server → Server Access”



The screenshot shows the CodeMeter WebAdmin interface. The top navigation bar includes Dashboard, Container, License Monitoring, Diagnosis, Configuration, and Info. The Configuration menu is expanded, showing Basic, Server, and Advanced options. The Server menu is further expanded, showing Server Access and License Access Permissions. The main content area displays the 'ABB R&D non-bind License (128-17149280)' configuration page. It includes a table with columns for Product Code, Name, Unit Counter, Valid Until, License Quantity, and Feature Map. The table lists various licenses for ABB Automation Products GmbH, including R&D unbound license, CSV Device Import Export, CSV I/O Mapping Import Export, ECAD Import Export, Project Compare, Project Scripting, and Automation Builder Premium 2.x. The bottom status bar shows the URL 'http://localhost:22352/configuration/server_access.html', version '0.0.1', and 'WebAdmin Version: 7.10'.

3. Add entries of PCs you want to share licenses with by adding client computers and IP addresses for accessing CodeMeter License Server on a network.



The screenshot shows the CodeMeter WebAdmin interface with the 'License Access Permissions' configuration page selected. The page has three tabs: Server Access, License Access Permissions, and License Transfer Configuration. The 'License Access Permissions' tab is active. It displays the 'Mode' section with radio buttons for 'Basic' (selected) and 'Advanced'. Below this, it states 'CodeMeter Server is currently running in License Access Permission Mode: Basic'. The 'Basic Mode Configuration' section includes a 'Clients' list with an 'Add' button and a 'Remove' button. There is also a checkbox for 'Enable FSB Access'. At the bottom, there are buttons for 'Apply', 'Undo Changes', and 'Restore Defaults'. A large circular icon with a document and a person is visible on the right side of the page.

3.5.8 License borrowing manager

3.5.8.1 Introduction

The license borrowing manager allows you to borrow a network license for offline use and return it.

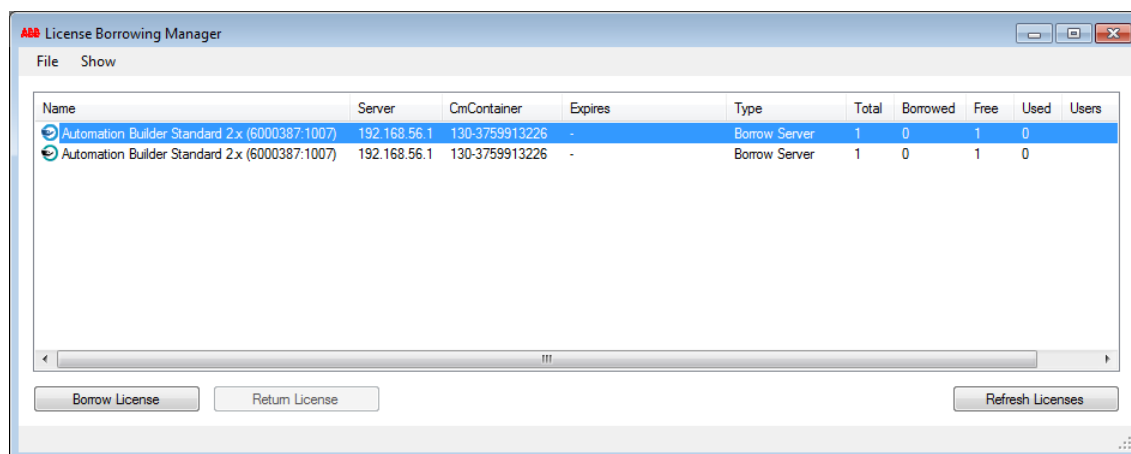


The license borrowing manager is not part of the default software distribution, but will be handed out on request.

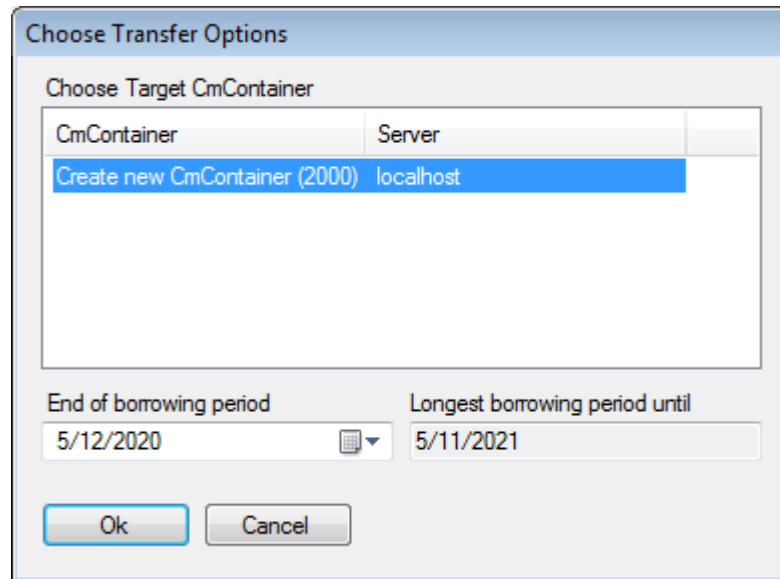
The license borrowing manager is supported as of Automation Builder 2.2.3.

3.5.8.2 Borrowing a network license

- ☒ Network access to the license server required.
 - ☒ Opened the license borrowing manager.
1. Select the license you want to borrow.



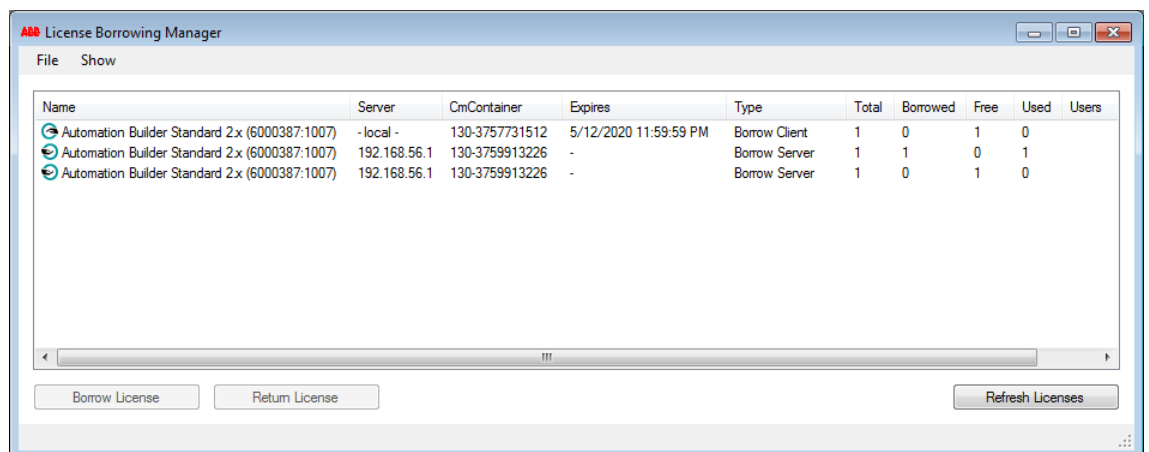
2. Select *[Borrow License]*.
3. Select the target CmContainer.
Alternatively a new CmContainer can be created.
4. Select the end of the borrowing period.



5. Select [Ok].

⇒ The license has successfully been borrowed.

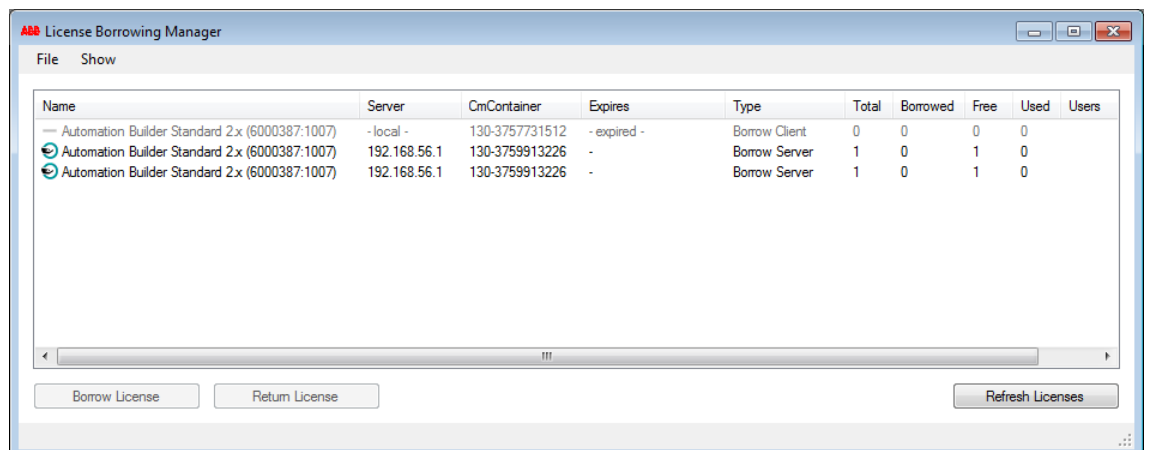
The list of available licenses has been updated.



3.5.8.3 Returning a network license

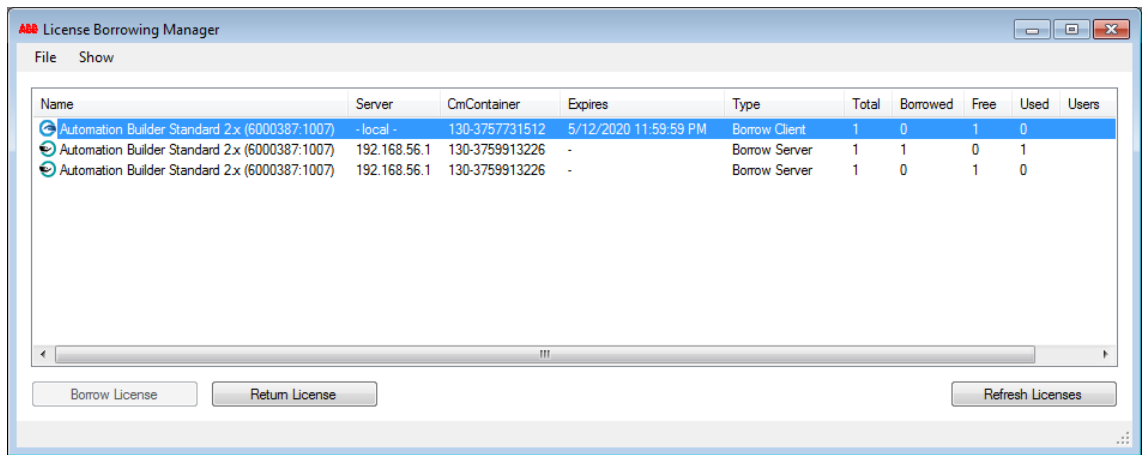
Automatical return of a license

Network licenses will be returned automatically after the expiration of the maximum borrowing period. No licenses server access is required.



Manual return of a network license

- ☒ Network access to the license server required.
- ☒ Opened the license borrowing manager.
- 1. Select a borrowed license.



- 2. Select *[Return License]*
 - ⇒ The license has successfully been returned.

3.5.9 Transferring an Automation Builder license

3.5.9.1 General

It is possible to transfer normal licenses from a PC to another PC or dongle (DM-Key).
This is not possible for ABB internal or temporary licenses, e.g. the 30 day Trial license.
The process consists of two main steps:

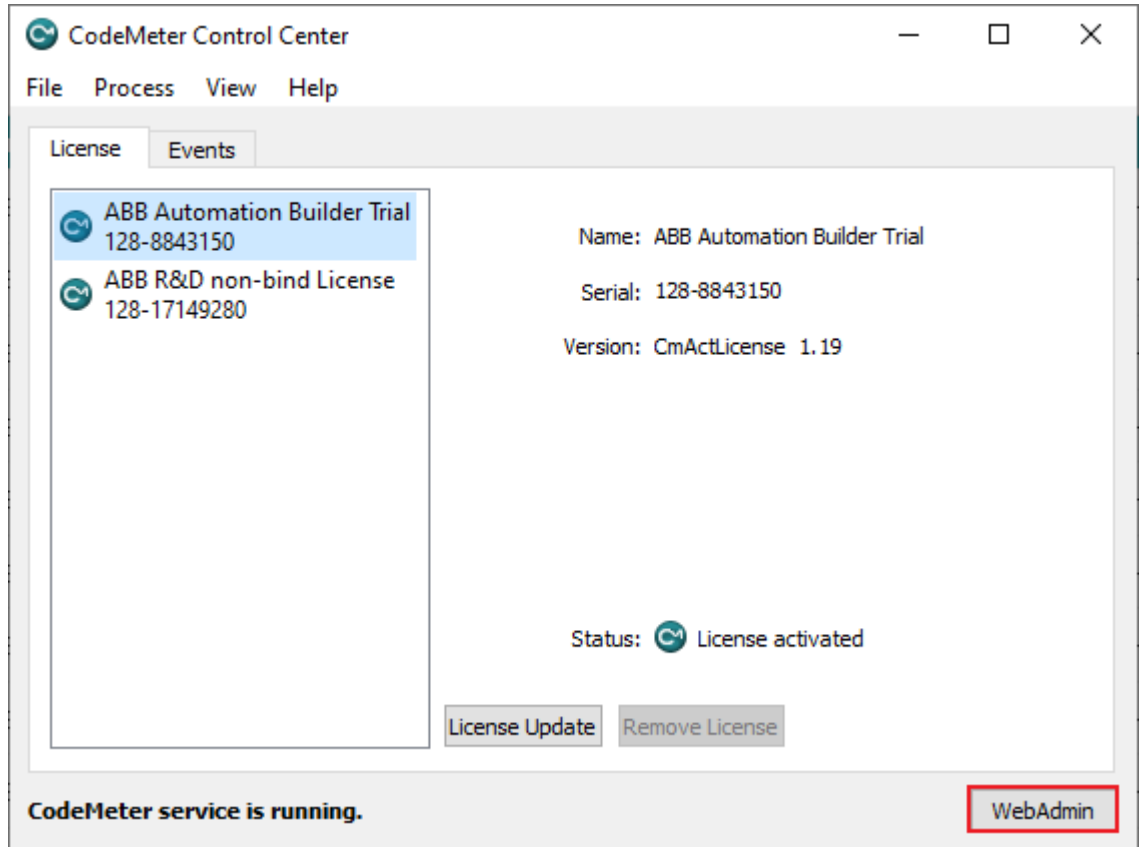
1. Return the actual license from the actual PC
2. Reactivate the license on the new PC

3.5.9.2 Getting activation code

For all license transfer processes the activation code is required. It is available from the license paper from purchasing the license.

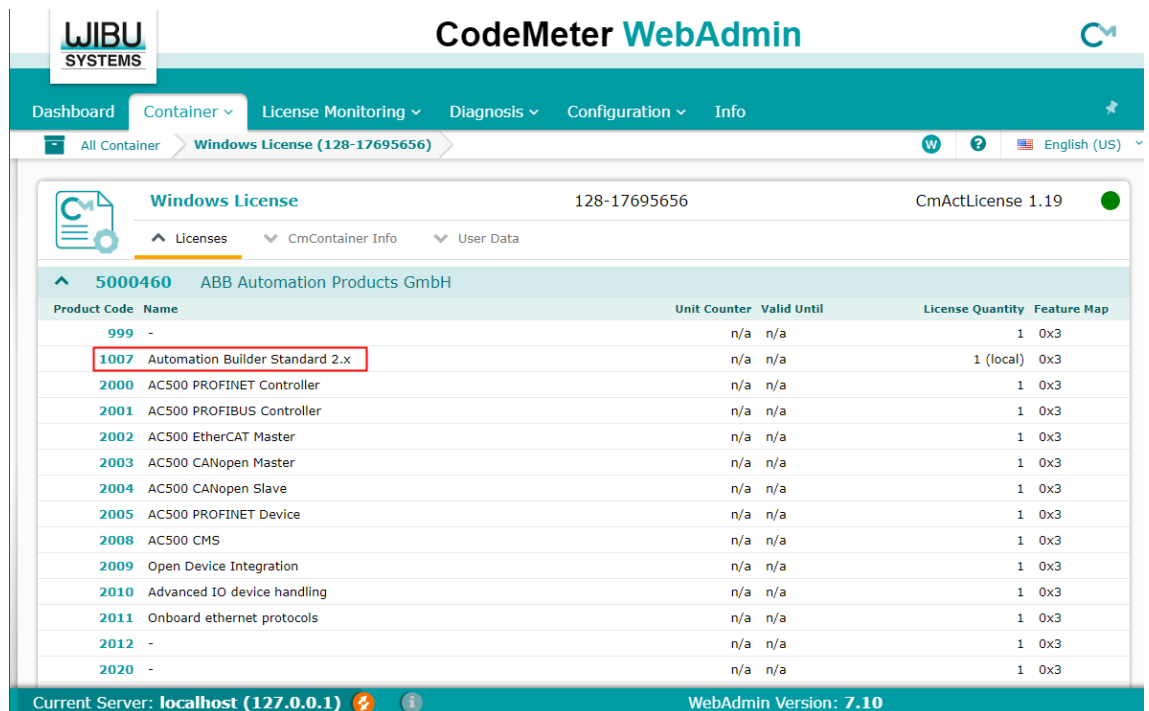
For Automation Builder licenses purchased April 2020 or later, the activation code is available from the activated license:

1. Open CodeMeter Control Center and navigate to the [WebAdmin].

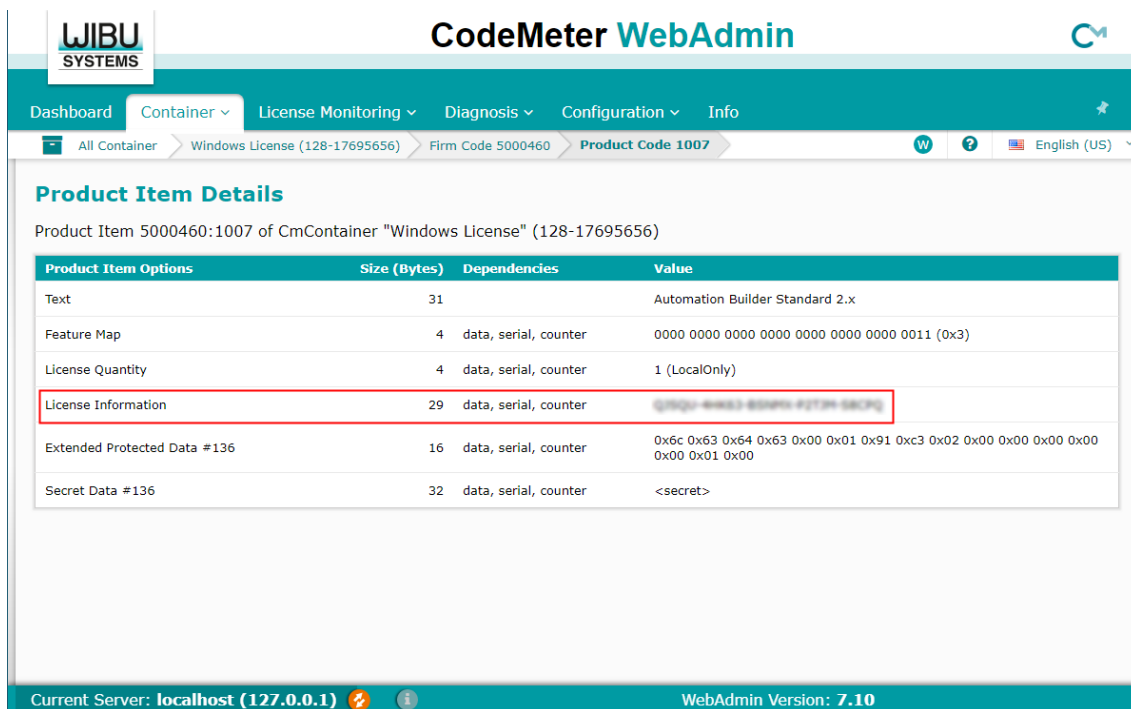


2. Identify the right product code.

Automation Builder editions consist of multiple product codes. The activation ID is available from the product code containing the edition name, e.g. "Automation Builder Standard".



3. Select product code to access the product code details. Under "License Information" you can find the activation code.



The screenshot shows the CodeMeter WebAdmin interface. The top navigation bar includes 'Dashboard', 'Container', 'License Monitoring', 'Diagnosis', 'Configuration', and 'Info'. The breadcrumb trail is 'All Container > Windows License (128-17695656) > Firm Code 5000460 > Product Code 1007'. The main section is titled 'Product Item Details' and shows 'Product Item 5000460:1007 of CmContainer "Windows License" (128-17695656)'. Below this is a table with the following data:

Product Item Options	Size (Bytes)	Dependencies	Value
Text	31		Automation Builder Standard 2.x
Feature Map	4	data, serial, counter	0000 0000 0000 0000 0000 0000 0011 (0x3)
License Quantity	4	data, serial, counter	1 (LocalOnly)
License Information	29	data, serial, counter	Q28QJ-WH63-80PH-F2TH-8CPL
Extended Protected Data #136	16	data, serial, counter	0x6c 0x63 0x64 0x63 0x00 0x01 0x91 0xc3 0x02 0x00 0x00 0x00 0x00 0x01 0x00
Secret Data #136	32	data, serial, counter	<secret>

The 'License Information' row is highlighted with a red border. The bottom status bar shows 'Current Server: localhost (127.0.0.1)' and 'WebAdmin Version: 7.10'.

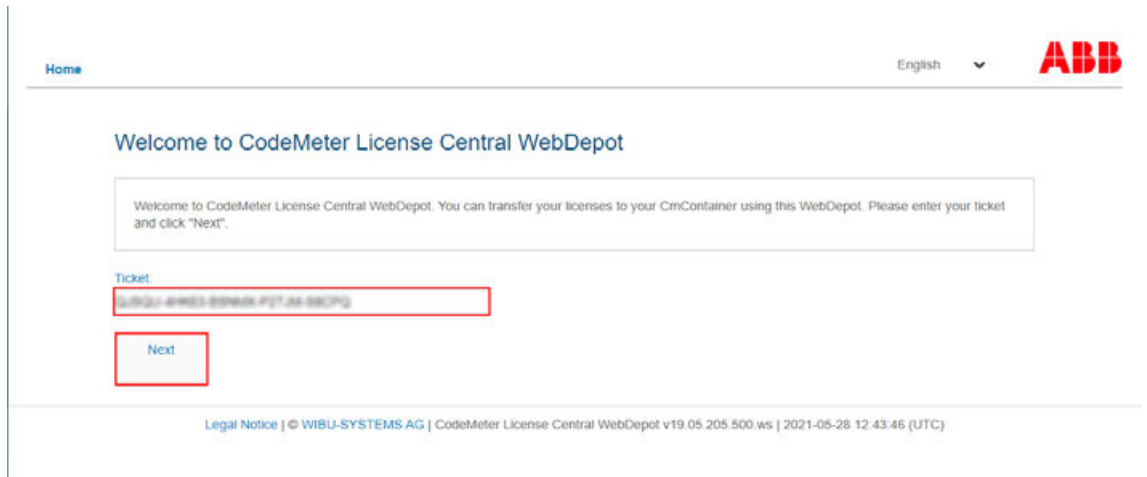
3.5.9.3 Returning an Automation Builder license


- ☒ You need the License Activation code of the license you want to return.
- 1. Go to the following website: <http://lc.codemeter.com/32838/depot-return/index.php>



The website is also available through the Automation Builder menu under "Help → Return of Automation Builder license".

- 2. Insert your Activation code in the field "Ticket"
- 3. Select *[Next]*



Home English 

Welcome to CodeMeter License Central WebDepot

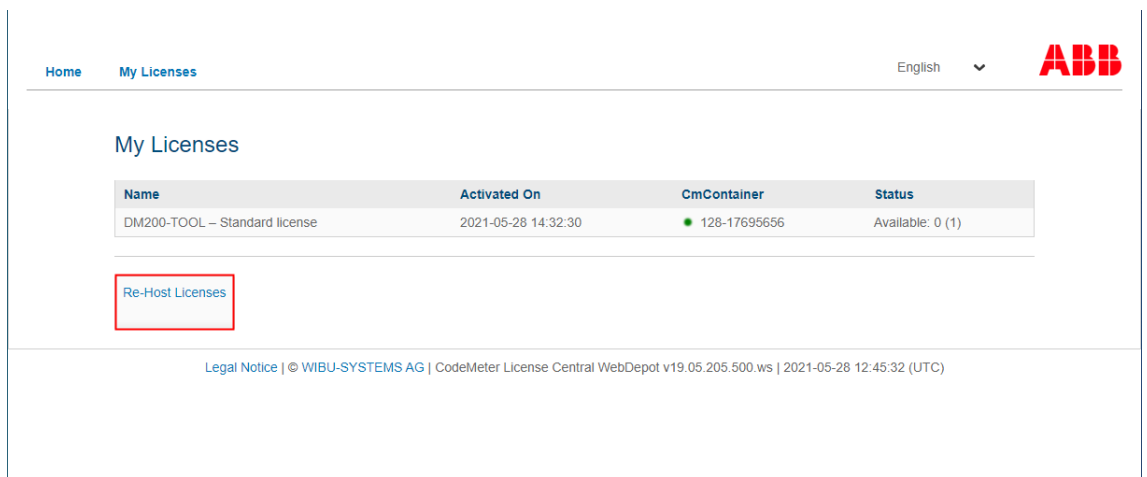
Welcome to CodeMeter License Central WebDepot. You can transfer your licenses to your CmContainer using this WebDepot. Please enter your ticket and click "Next".


Ticket:
SUBU-4W53-B2B4K-F2TAA-BBCPG

Next


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4. Select *[Re-Host License]*



Home My Licenses English 

My Licenses

Name	Activated On	CmContainer	Status
DM200-TOOL - Standard license	2021-05-28 14:32:30	 128-17695656	Available: 0 (1)

Re-Host Licenses

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- ⇒ If the CmContainer is found, continue with Online licenses transfer ➤ *Chapter 3.5.9.4 "Online license transfer" on page 45*
- ⇒ If the CmContainer is not found, continue with Offline license transfer ➤ *Chapter 3.5.9.5 "Offline license transfer" on page 47*

3.5.9.4 Online license transfer

- ▷ Wait till the CmContainer is found, then select *[Deactivate Selected License Now]*

HomeMy Licenses

English

ABB

Re-Hostable Licenses

To re-host licenses from one CmContainer to another CmContainer:

1. Make sure that the CmContainer with **Serial 128-17695656** is connected to this computer. If this CmContainer is not connected to this computer, connect it now and click "Rescan for CmContainer".

2. Select the licenses you want to re-host.

3. Click "Deactivate Selected Licenses Now".

4. After the successful deactivation of the selected licenses, you can activate them again in another CmContainer.

<input checked="" type="checkbox"/>	Name	Activated On	CmContainer	Status
<input checked="" type="checkbox"/>	DM200-TOOL – Standard license	2021-05-28 14:32:30	128-17695656	Activated

Deactivate Selected Licenses Now

[My Licenses](#)

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Online License Transfer

Starting license transfer.
Creating license request.
Downloading license update.
Importing license update to CmContainer.
Creating receipt.
Uploading receipt.



License transfer completed successfully!

OK

3.5.9.5 Offline license transfer

▷ If the CmContainer is not found on this PC, select “file-based license transfer” workflow.

Home My Licenses English ABB

Re-Hostable Licenses

To re-host licenses from one CmContainer to another CmContainer:

1. Make sure that the CmContainer with Serial 128-17695656 is connected to this computer. If this CmContainer is not connected to this computer, connect it now and click "Rescan for CmContainer".
2. Select the licenses you want to re-host.
3. Click "Deactivate Selected Licenses Now".
4. After the successful deactivation of the selected licenses, you can activate them again in another CmContainer.

<input checked="" type="checkbox"/>	Name	Activated On	CmContainer	Status
<input checked="" type="checkbox"/>	DM200-TOOL – Standard license	2021-05-28 14:32:30	128-17695656	Activated

Error

The CmContainer with serial 128-17695656 was not found. Please connect it to your PC or use **file-based license transfer**.

0x1808810E
CodeMeter License Central WebDepot v19.05.205.500.ws
2021-05-28 12:59:23 (UTC)

Rescan for CmContainer

My Licenses

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⇒ The following dialog opens

Home My Licenses English ABB

Re-Hostable Licenses

Upload Request Download Update Upload Receipt

When re-hosting licenses, they will be deactivated first. Then they can be activated in another CmContainer. This page guides you through the deactivation process. Only after successfully deactivating the licenses, can you activate these licenses again.

To re-host licenses from one CmContainer to another CmContainer via file transfer: - First step "Upload Request":

1. Create a license request file from the CmContainer with Serial 128-17695656 and Firm Code 5000460. This file can for example be created with CodeMeter Control Center. [How it works](#)
2. Select the licenses you want to re-host.
3. Select the created license request file.
4. Click "Upload Request And Continue Now".

<input checked="" type="checkbox"/>	Name	Activated On	CmContainer	Status
<input checked="" type="checkbox"/>	DM200-TOOL – Standard license	2021-05-28 14:32:30	128-17695656	Activated

Pick license request file (*.WibuCmRaC)

Choose File No file chosen

Upload Request And Continue Now

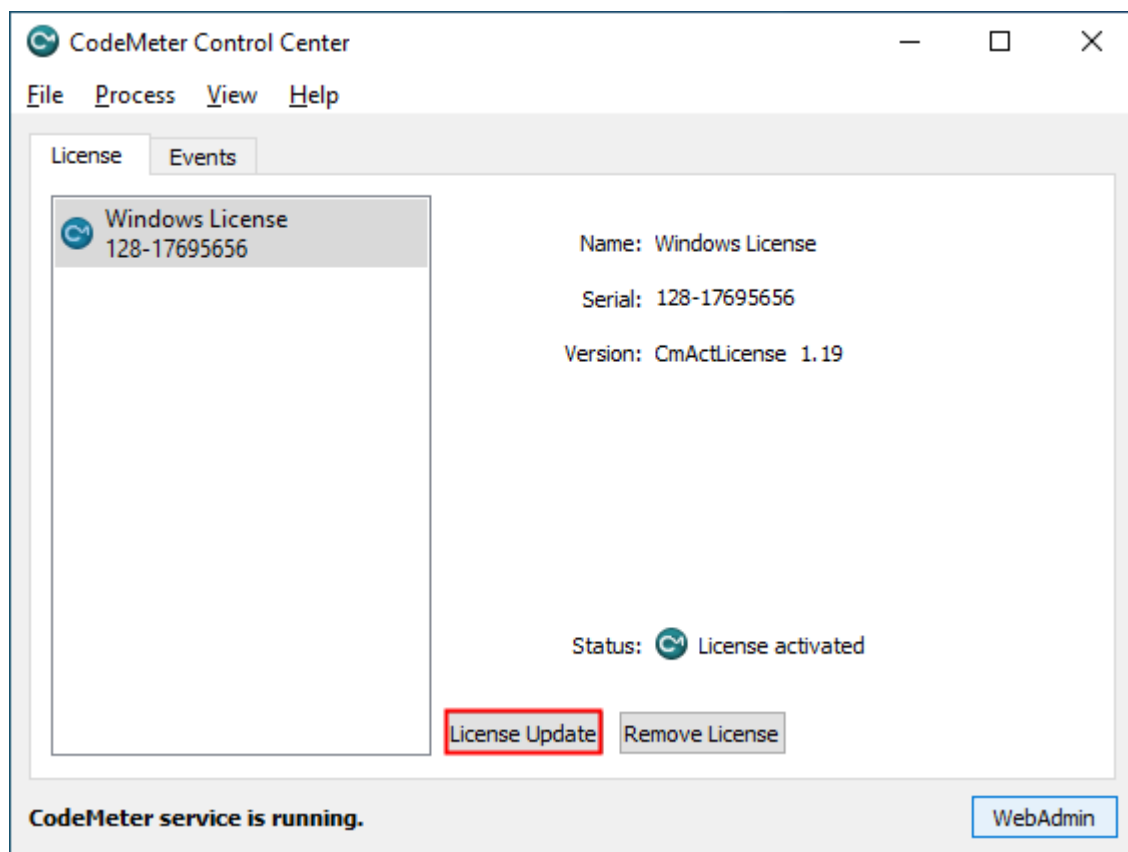
Direct license transfer

My Licenses

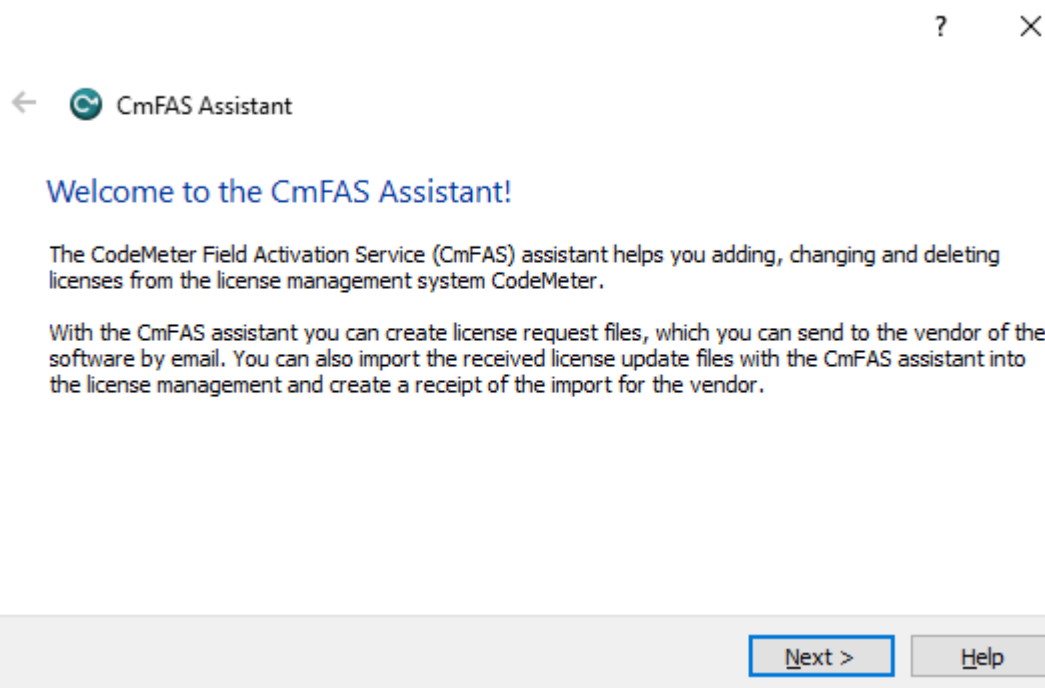
Legal Notice | © WIBU-SYSTEMS AG | CodeMeter License Central WebDepot v19.05.205.500.ws | 2021-05-28 13:02:09 (UTC)

The instructions will lead you through the main steps of the offline license transfer:

1. On the offline PC open the CodeMeter Control Center.
2. Select *[License Update]*.




⇒ The CmFAS Assistant opens.



3. Select *"Create a license request file"*.



←  CmFAS Assistant

Please select the desired action

☒ **Create license request**

Choose this option if you want to create a license request file in order to send it to the vendor of the software.

☐ **Import license update**

Choose this option, if you received a license update file from the software vendor and want to import this file.

☐ **Create receipt**

Choose this option if you want to confirm the successful import of a license update file for the software vendor.

[Next >](#)

[Help](#)

4. Select a location to store the license request file.
5. Transfer the license request file from the offline PC to an online PC.

6. On the online PC choose the license request file and select *[Upload Request And Continue Now]*.

Home My Licenses English

Re-Hostable Licenses

Upload Request Download Update Upload Receipt

When re-hosting licenses, they will be deactivated first. Then they can be activated in another CmContainer. This page guides you through the deactivation process. Only after successfully deactivating the licenses, can you activate these licenses again.

To re-host licenses from one CmContainer to another CmContainer via file transfer: - First step "Upload Request":

1. Create a license request file from the CmContainer with **Serial 128-17695656** and **Firm Code 5000460**. This file can for example be created with CodeMeter Control Center. [How it works](#)
2. Select the licenses you want to re-host.
3. Select the created license request file.
4. Click "Upload Request And Continue Now".

<input checked="" type="checkbox"/>	Name	Activated On	CmContainer	Status
<input checked="" type="checkbox"/>	DM200-TOOL - Standard license	2021-05-28 14:32:30	128-17695656	Activated

Pick license request file (*.WibuCmRaC)

Choose File 128-17695656.WibuCmRaC

Upload Request And Continue Now

[Direct license transfer](#)

[My Licenses](#)

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⇒ The next dialog is opened

Home My Licenses English

Download License Update File

Upload Request ✓ Download Update Upload Receipt

To transfer your licenses via file - Second step "Download Update":

1. Click "Download License Update File Now" and save the file on your computer.
2. Import this license update file to the CmContainer with **Serial 128-17695656**. This file can for example be imported with CodeMeter Control Center. [How it works](#)
3. After you have successfully transferred the license update file to the CmContainer, click "Next" to confirm the license transfer.

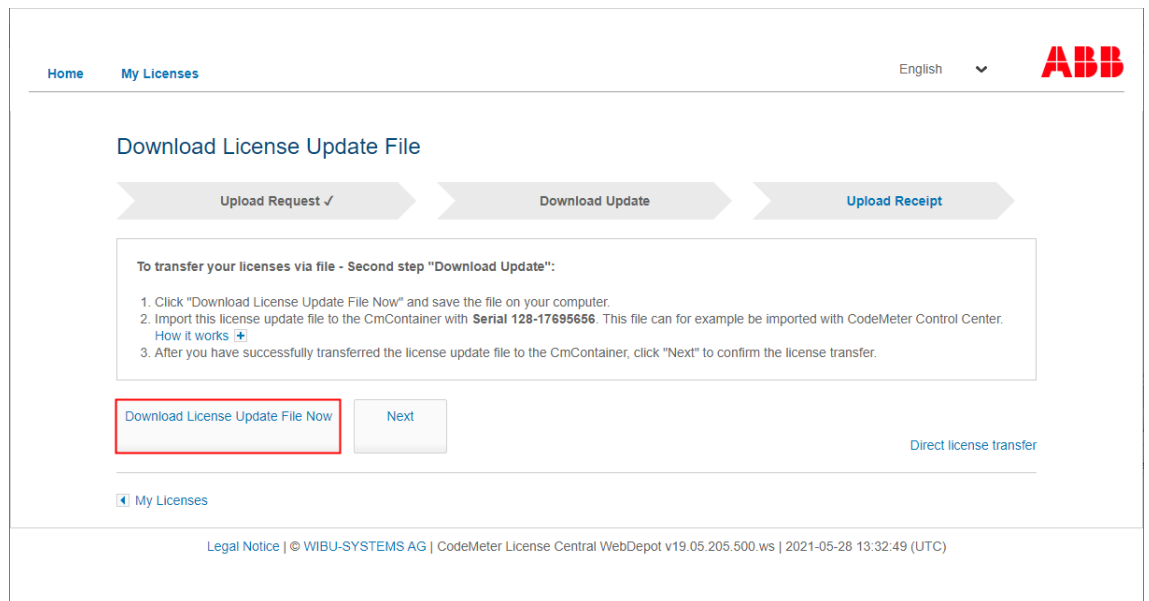
Download License Update File Now **Next**


[Direct license transfer](#)

[My Licenses](#)

Legal Notice | © WIBU-SYSTEMS AG | CodeMeter License Central WebDepot v19.05.205.500.ws | 2021-05-28 13:32:49 (UTC)

7. Select *[Download License Update File Now]*.



Home My Licenses English 

Download License Update File

Upload Request ✓ Download Update Upload Receipt

To transfer your licenses via file - Second step "Download Update":

1. Click "Download License Update File Now" and save the file on your computer.
2. Import this license update file to the CmContainer with **Serial 128-17695656**. This file can for example be imported with CodeMeter Control Center.
[How it works](#)
3. After you have successfully transferred the license update file to the CmContainer, click "Next" to confirm the license transfer.

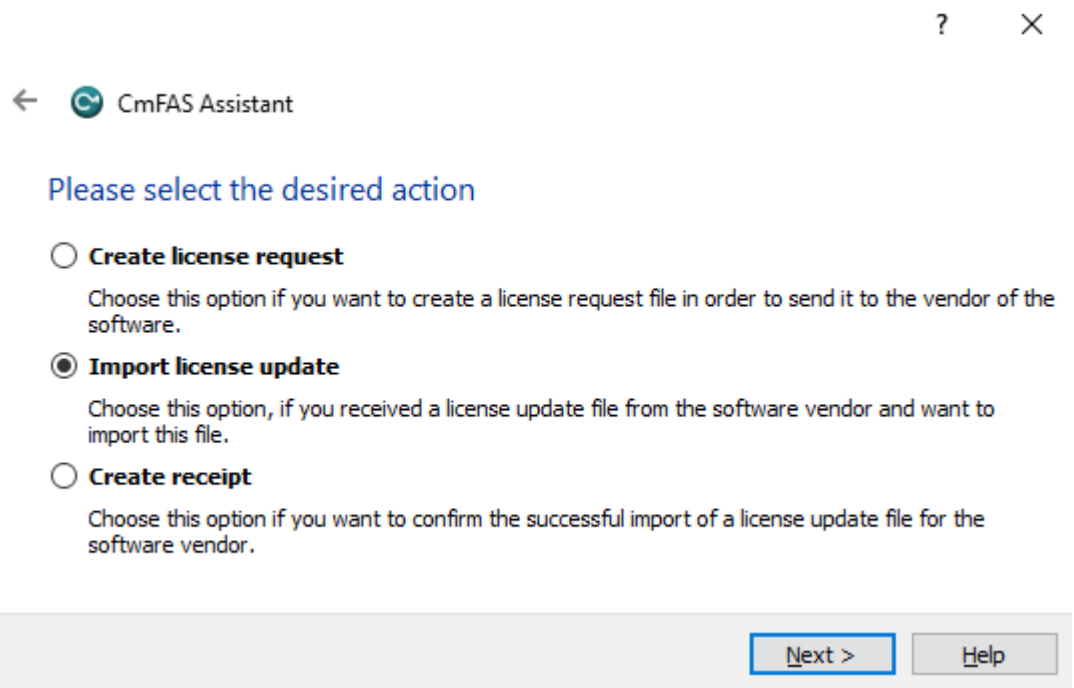
Download License Update File Now Next


[Direct license transfer](#)

[My Licenses](#)

Legal Notice | © WIBU-SYSTEMS AG | CodeMeter License Central WebDepot v19.05.205.500.ws | 2021-05-28 13:32:49 (UTC)

8. Save the license update file to a location on your computer.
9. Transfer the license update file from the online PC to the offline PC.
10. On the offline PC open the CmFAS Assistant.
11. Select "Import license update".



←  CmFAS Assistant

Please select the desired action

☐ **Create license request**
Choose this option if you want to create a license request file in order to send it to the vendor of the software.

☒ **Import license update**
Choose this option, if you received a license update file from the software vendor and want to import this file.

☐ **Create receipt**
Choose this option if you want to confirm the successful import of a license update file for the software vendor.

Next > **Help**

12. Select the license update file, to import the new license to the offline PC

13. To confirm a succesful license transfer return to the online PC and select *[Next]*.

Home My Licenses English

Download License Update File

Upload Request ✓ Download Update Upload Receipt

To transfer your licenses via file - Second step "Download Update":

1. Click "Download License Update File Now" and save the file on your computer.
2. Import this license update file to the CmContainer with **Serial 128-17695656**. This file can for example be imported with CodeMeter Control Center. [How it works](#)
3. After you have successfully transferred the license update file to the CmContainer, click "Next" to confirm the license transfer.

Download License Update File Now **Next** Direct license transfer

[My Licenses](#)

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⇒ The last dialog is opened

Home My Licenses English

Confirm License Transfer

Upload Request ✓ Download Update Upload Receipt

To transfer your licenses via file - Third step "Upload Receipt":

1. Create a license receipt file from the CmContainer with **Serial 128-17695656** and **Firm Code 5000460**. This file can for example be created with CodeMeter Control Center. [How it works](#)
2. Select the created license receipt file.
3. Click "Upload Receipt Now".

If you haven't imported the license update file yet, you can download it again. Click "Back" to get to the download page.

Pick license receipt file (*.WibuCmRaC)
Choose File No file chosen


Upload Receipt Now Back Direct license transfer

[My Licenses](#)

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14. On the offline PC open the CmFAS Assistant.
15. Select *"Create receipt"*.

? ×

←  CmFAS Assistant

Please select the desired action

☐

Create license request
Choose this option if you want to create a license request file in order to send it to the vendor of the software.

☐

Import license update
Choose this option, if you received a license update file from the software vendor and want to import this file.

☒

Create receipt
Choose this option if you want to confirm the successful import of a license update file for the software vendor.

Next >

Help

16. Choose a location to save the license receipt file.
17. Transfer the license receipt file from the offline PC to the online PC.

18. On the online PC choose the license receipt file and select *[Upload Receipt Now]*.

Home My Licenses English ABB

Confirm License Transfer

Upload Request ✓ Download Update Upload Receipt

To transfer your licenses via file - Third step "Upload Receipt":

1. Create a license receipt file from the CmContainer with Serial 128-17695656 and Firm Code 5000460. This file can for example be created with CodeMeter Control Center. [How it works](#).
2. Select the created license receipt file.
3. Click "Upload Receipt Now".

If you haven't imported the license update file yet, you can download it again. Click "Back" to get to the download page.

Pick license receipt file (*.WibuCmRaC)

Choose File 128-17695656.WibuCmRaC

Upload Receipt Now Back

[Direct license transfer](#)

My Licenses

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⇒ After a succesful license transfer you will receive the following message

Home My Licenses English ABB

License Transfer Successfully Completed

The license transfer has been completed successfully.

OK

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3.5.9.6 Return of unconfirmed license


If customers do not complete the offline activation process by uploading the receipt file, they won't be able to return the license. However, working with Automation Builder is possible.

When the customer tries to return the license, they will see that the license is available, but they won't be able to rehost the license because the button is not visible.



The only way to proceed here is to either create a receipt file from "CodeMeter" and upload it, or contact ABB Support who will manually confirm the activation after reviewing the "CmDust".

Below are the steps to enable the "Re-Host" button again.

Initial situation: No *[Re-Host Licenses]* button is visible in the "CodeMeter License Central WebDepot".

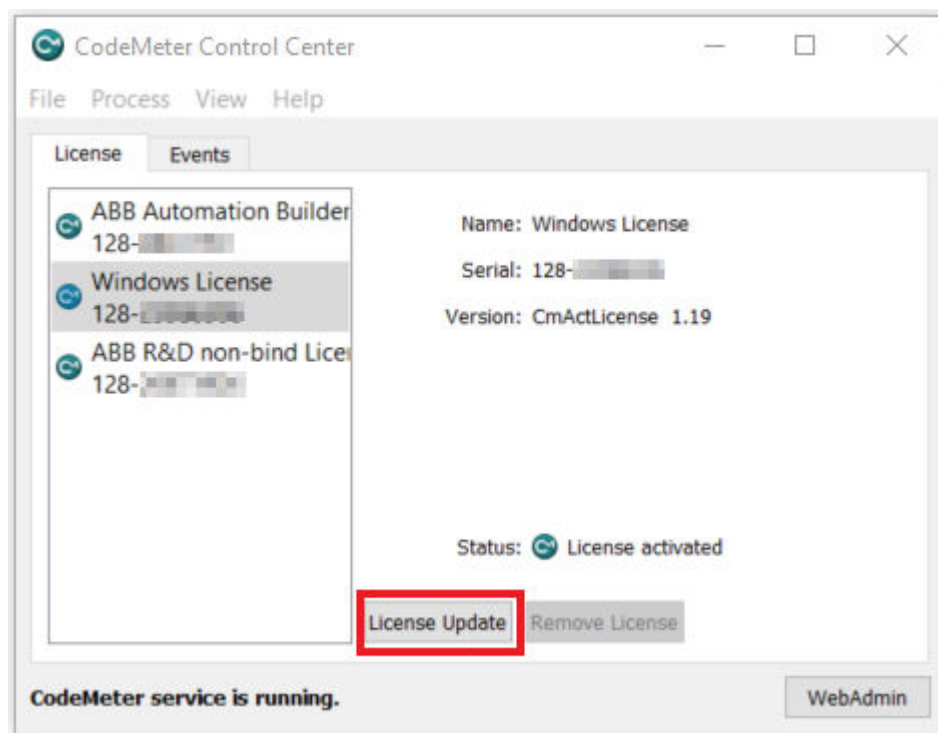
Home My Licenses English 

My Licenses

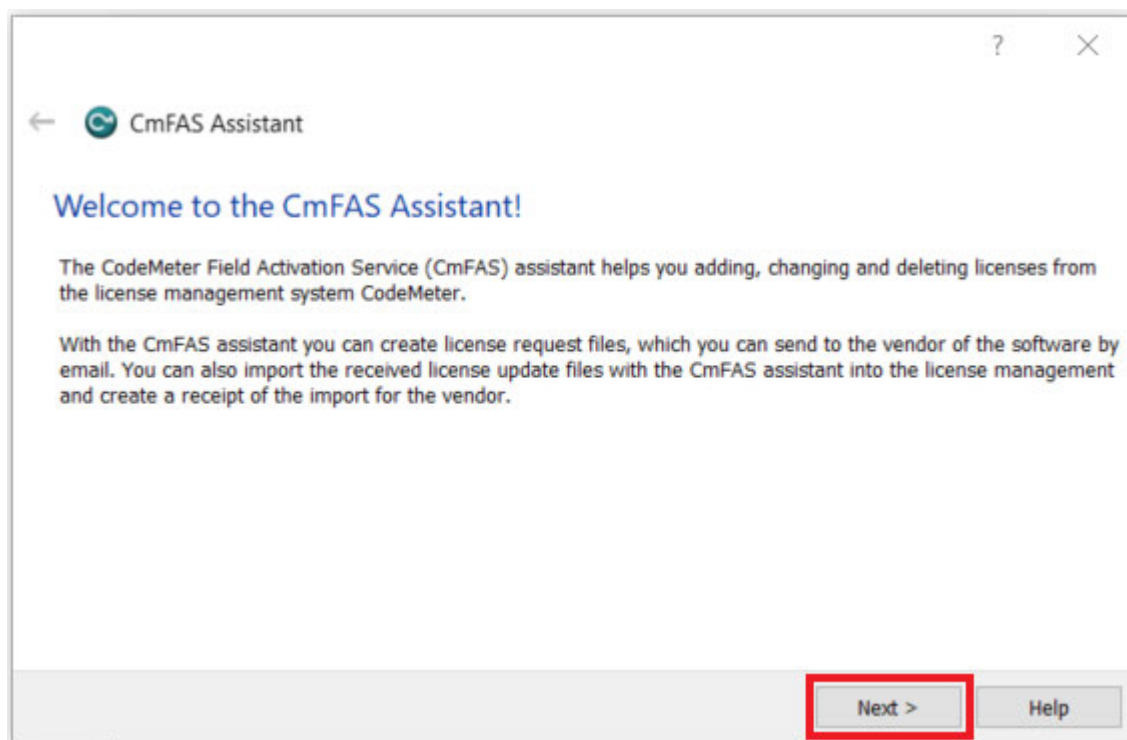
Name	Activated On	CmContainer	Status
DM200-TOOL – Standard license	2023-07-17 17:35:46	 128- 	Available: 0 (1)

1. Open the “CodeMeter Control Center” on the PC.
2. Select the correct container under the “License” tab so that it is grayed out.

3. Click the *[License Update]* button.

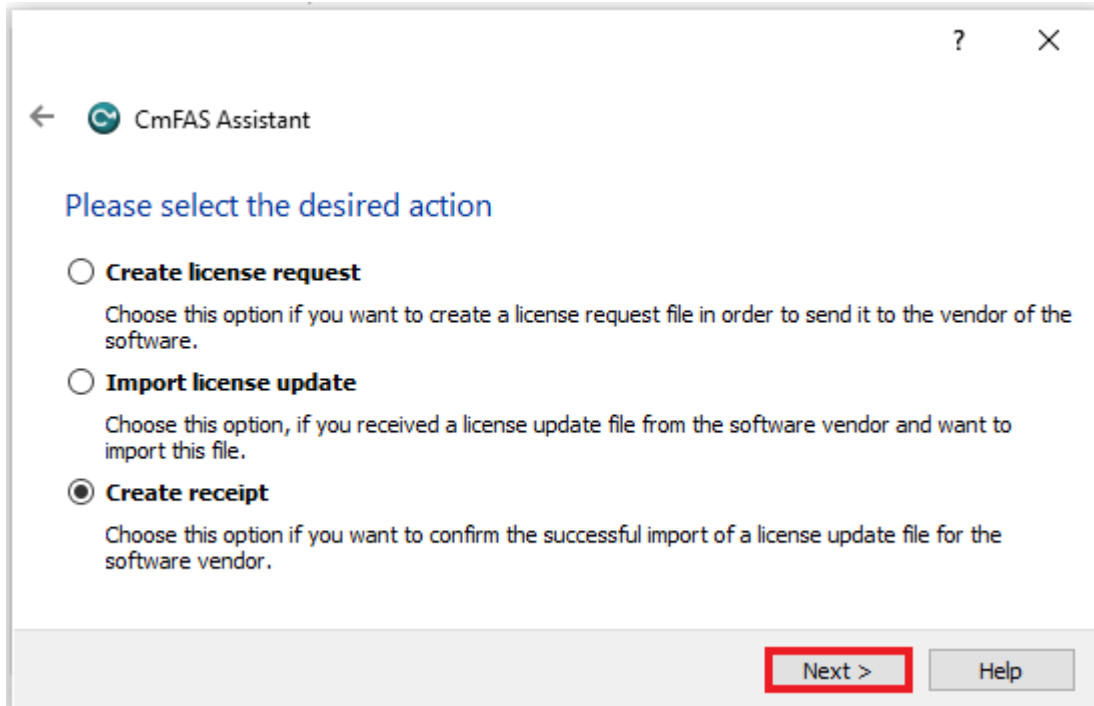


⇒ The “CmFAS Assistant” opens.



4. Click the *[Next >]* button.

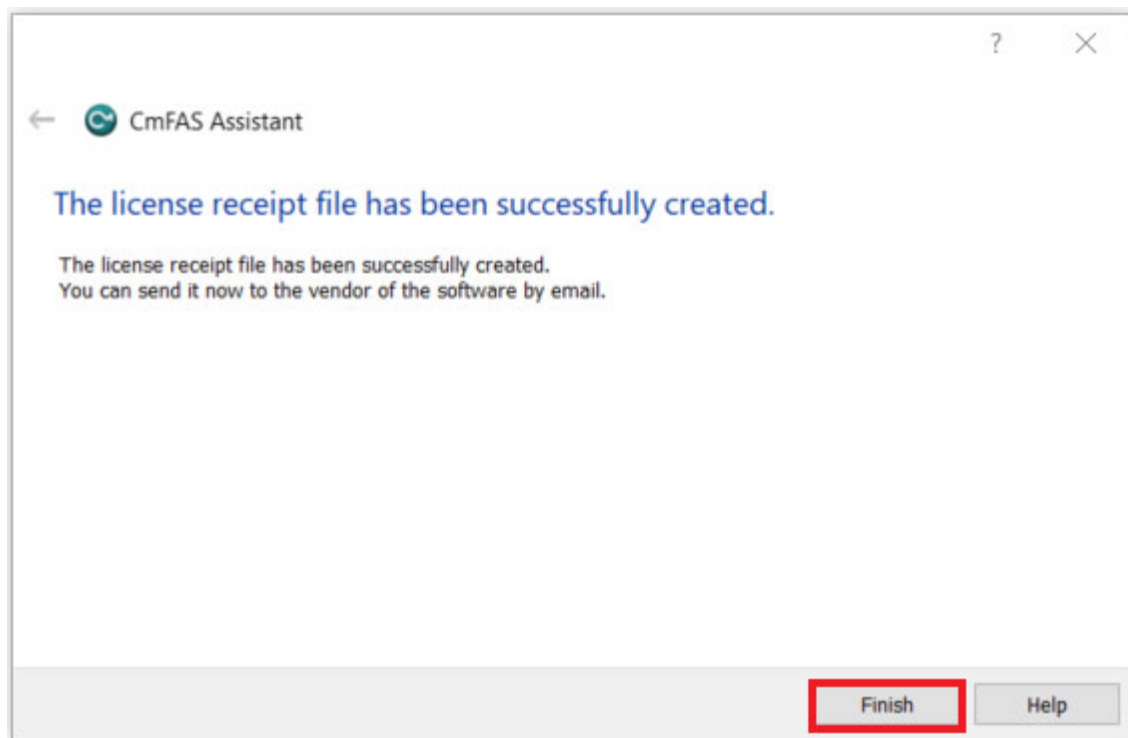
5. In the window which appears, select the option *[Create receipt]*.



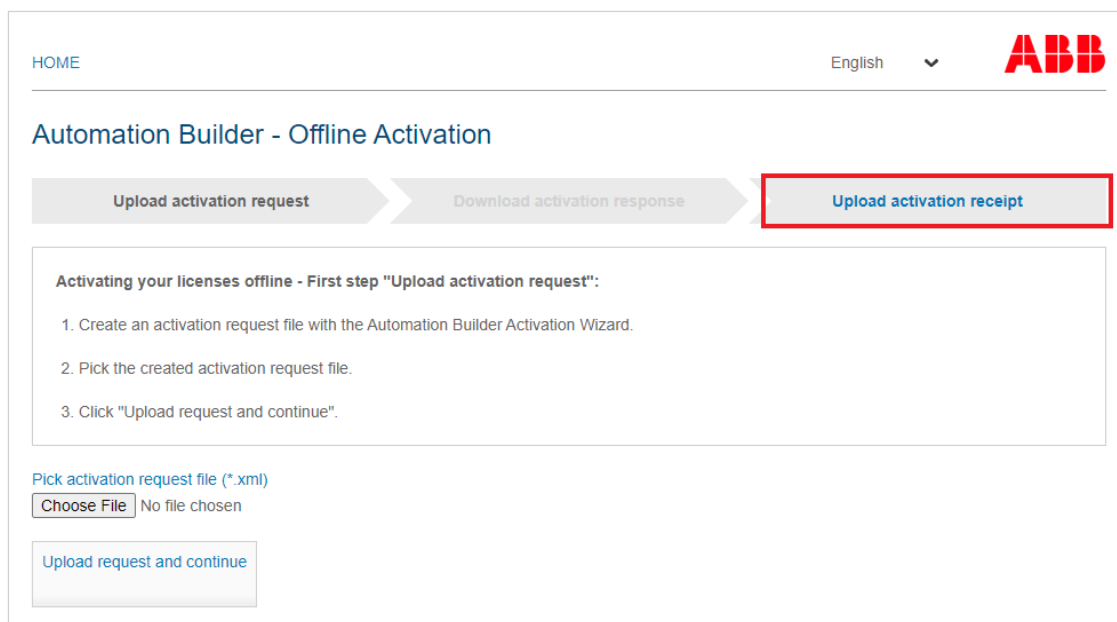
6. Click the *[Next >]* button.
7. Select a file name for storing the receipt file.



8. Click the *[Commit]* button.



9. Click the *[Finish]* button.
10. Open the *CodeMeter License Central WebDepot*
11. Click on the *[Upload activation receipt]* button.



12. Click the *[Choose File]* button and select the receipt file that has just been created by "CodeMeter". A new window will open.

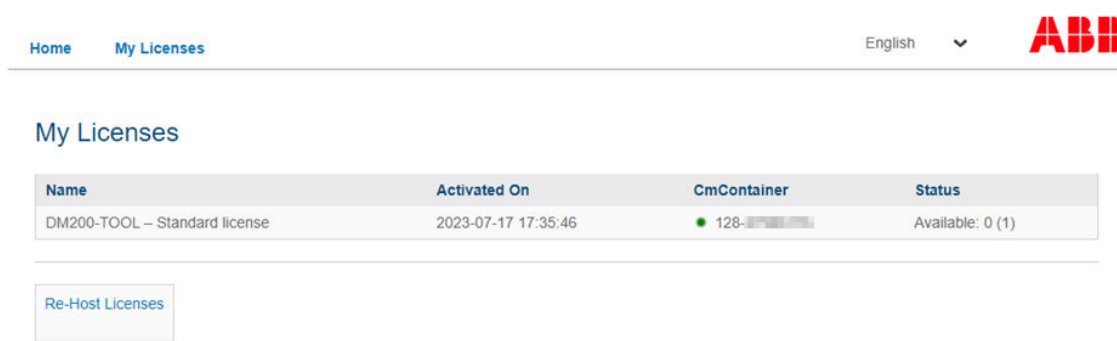
The screenshot shows the 'Confirm license activation' page with the ABB logo in the top right. The page title is 'Confirm license activation'. Below the title is a progress bar with three steps: 'Upload activation request' (active), 'Download activation response', and 'Upload activation receipt'. The main content area is titled 'Activating your licenses offline - Third step "Upload activation receipt":'. It contains three numbered instructions: 1. Confirming the activation is only supported for Automation Builder 1.1.1 and later. Please ignore this step if you are using Automation Builder 1.1.0. 2. Pick the created activation receipt file. 3. Click "Upload activation receipt". Below the instructions is a link 'Pick activation receipt file (*.WibuCmRaC)'. Under the link is a file selection interface with a 'Choose File' button highlighted by a red rectangle. Below the file selection is an 'Upload activation receipt' button and a 'Back' button.

13. Click the *[Upload activation receipt]* button and wait for the success message.

This screenshot is identical to the previous one, showing the 'Confirm license activation' page. However, the 'Upload activation receipt' button is now highlighted with a red rectangle, indicating the next step in the process.

The screenshot shows a success message page with the ABB logo in the top right. The page title is 'License Activation Successfully Completed'. Below the title is a message box that says 'You have successfully completed the license activation.' Below the message box is an 'OK' button.

- Go again to the [return WebDepot](#) and try to return license. Now the [\[Re-Host Licenses\]](#) button is visible.



3.5.10 Generating license information file for support

To create a license information file which includes all license information for the support:

- Select "*Windows start menu* → *CodeMeter* → *Tools* → *CmDust*".
⇒ The explorer window opens and shows the folder where the created log file *CmDust-Result.log* is stored.
- Please attach this file to any support request regarding your licenses.

3.5.11 Generating log files for support

Sometimes more detailed log files are needed to analyse a situation.

Then please also zip the following folder and attach it to your support request.

C:\ProgramData\CodeMeter\Logs

This folder includes

- CmActDiagLogyyyy-mm-dd-hhmmss.log
- CodeMeteryyyy-mm-dd-hhmmss.log

To make it easier to distinguish when the files were created, they are named as follows:

- yyyy – year, mm – month, hh – hour; mm – minutes, ss – seconds.

3.5.12 Further information

For more information about the installation and activation of the Automation Builder see:
[Automation Builder Installation and Activation](#)

4 Frequently asked questions and Support

4.1 Frequently asked questions

Q = Question

A = Answer / Explanation

H = Help / Hint how to solve

Q1:	The installation or download failed. I see red icons on all selected components
A:	The internet connection to the download server was not established.
H:	<ul style="list-style-type: none"> • Open an internet connection to a site outside your company (to establish proxy authentication). • Check the firewall settings to see if Automation Builder was blocked to download files. If so adapt the firewall settings. • Do an offline installation • Save the install log file and send it to ABB support. See 🔗 Chapter 4.2 “Special settings for internet security software “F-Secure”” on page 64
Q2:	Which Components or which Editions should I install? Can I add special components later on?
A:	It is possible to add components later on, independent of the activated license.
H:	<ul style="list-style-type: none"> • If you choose to download an offline installation package, it might be better to select all / more components for the download. The choice, which components will be installed is made at the installation process. • If you want to use Basic and your previous purchased Panel Builder see Q6
Q3:	How big is the installation package?
A:	The amount of downloaded data depends on the selected components and version profile.
H:	<ul style="list-style-type: none"> • For the current system requirements of the Automation Builder , please refer to the latest published release notes.
Q4:	Activation wizard tells me that I have no internet connection. But the PC is connected to the internet
A:	The license server maybe did not answer within a certain time (5s).
H:	<ul style="list-style-type: none"> • Choose the “Retry” option • Open an internet connection to a site outside your company. (to establish proxy authentication) • If the wizard asks to save a *.xml file, do so and continue the offline licensing described in 🔗 Chapter 3.3.2 “Offline activation” on page 25. • Try to do a complete offline activation – see 🔗 Chapter 3.3.2 “Offline activation” on page 25
Q5:	Activation wizard tells me that the activation is not possible. But the PC is connected to the internet and the connection works with external websites
A:	<p>Probably some IT security components block the online communication to our license server. The root cause typically is very specific with respect to the (company) IT landscape. Further investigations can be done based on the following information:</p> <p>The license manger uses HTTP requests on Windows HTTP standard port to the URL http://lc.codemeter.com/32838. It uses the proxy settings as defined in the internet explorer</p>
H:	Try to do a complete offline activation – see 🔗 Chapter 3.3.2 “Offline activation” on page 25

Q6:	I have activated my purchased or basic license, but still I get the message that the license will expire in some days
A:	If a trial license is activated on the PC, the expiring message will be given even if an unlimited license was activated.
H:	<ul style="list-style-type: none"> To avoid the expiring message the trial license must be removed via the CodeMeter tool. See Chapter 3.5.6 "Removing trial license to remove expiring message" on page 34.
Q7:	After the installation of Automation Builder 1.1 I cannot open the Panel Builder 600 anymore. I have activated a basic license.
A:	If the Panel Builder was installed with Automation Builder 1.1 it requires a valid license higher than basic.
H:	<ul style="list-style-type: none"> Upgrade the license to standard or higher. If you had a purchased standalone Panel Builder 600 version earlier: Install this one again. An Update installation file to version 1.90.0.975 can be downloaded from the ABB website. Link: http://new.abb.com/plc/control-panels/cp600/software and check for "Software" in the "Download related documents for Software" section. After this installation Panel Builder can be opened standalone again.
Q8:	The activation of the USB-key (dongle) does not work
A:	If you try to activate an ABB internal license key to a dongle: this is not foreseen and does not work. If you try an offline activation: the wizard will not give a success message. (Fixed in Automation Builder Version 1.1.1)
Q9:	The system does not recognize my dongle bound license
A:	In case of using a dongle bound license it might be necessary to restart the check for license on the PC, e.g. if the dongle was removed and reinserted.
H:	<ul style="list-style-type: none"> Restart the CodeMeter Service Chapter 3.5.5 "Restarting license check with a dongle bound license" on page 33.
H:	<ul style="list-style-type: none"> The offline activation of normal licenses must be exit by "cancel" or the "x". Activation will nevertheless be done. Check with by CodeMeter. This will be fixed with Service Release Automation Builder 1.1.1
Q10:	How can I check, which license is activated?
H:	Open the CodeMeter tool Chapter 3.5.3 "Checking licenses with "CodeMeter Control Center"" on page 30.
Q11:	The Automation Builder does not open any more. How can I activate my purchased or a basic license? I get an error message: "The trial period has elapsed. Reactivating the license is not allowed."
A:	After the trial period the trial license was activated another time. This prevents Automation Builder to startup.
H:	<ul style="list-style-type: none"> Open the CodeMeter tool Chapter 3.5.3 "Checking licenses with "CodeMeter Control Center"" on page 30 and delete all licenses. Then Automation Builder will start up with the License Activation Wizard again.
Q12:	Is a separate license needed for a virtual machine?

A:	<p>The license is bound to a PC. As each virtual machine is like an own PC, all different virtual machines need a separate license.</p> <p>Some information to the use of virtual machines.</p> <ul style="list-style-type: none"> • Each virtual machine is like an own PC system and needs an own license. • One way to use several virtual machines with one license key is to bind the license to a dongle. • It is possible to activate a license to the PC and add a dongle to it at the same time. Both licenses are used to cover the needed features. (E.g. if a standard license is bound to the PC and a premium is bound to the dongle.) • Before you start the Automation Builder in the virtual machine, check if the dongle is available. • This can be done in the explorer window or in the CodeMeter tool. (see 🔗 Chapter 3.5.3 “Checking licenses with “CodeMeter Control Center”” on page 30) • If the dongle is not available try to plug off and in again, while the virtual machine is running. • If the license is bound to a virtual machine on a PC directly it is NOT possible to move this virtual machine to another PC using the same activation key. • If you want to copy or move the virtual machines with an Automation Builder Installation to another PC, do this before you license this Automation Builder installation. • However if you had it already licensed, then delete the license in CodeMeter and restart Automation Builder again to activate another license key. How to do this see 🔗 Chapter 3.5.6 “Removing trial license to remove expiring message” on page 34
Q13:	I want to upload the activation request file (*.xml) but get an error message “internal error” “0x18080001”
A/H:	<ul style="list-style-type: none"> • you might have pressed the upload button another time while delivery process was still ongoing: <ul style="list-style-type: none"> – then the license must be activated manually. – Please send the activation request file (*.xml) file to plc.support@de.abb.com • you try to upload the activation file of internal additional safety license key “QQW64-...-B644E” <ul style="list-style-type: none"> – this can not be activated offline. – Please send the activation request file (*.xml) file to plc.support@de.abb.com • you might had test or development licenses on your PC <ul style="list-style-type: none"> – Please delete all those licenses from CodeMeter (see 🔗 Chapter 3.5.6 “Removing trial license to remove expiring message” on page 34) and retry
Q14:	I have installed Drive Composer Pro with Automation Builder 1.1 and now I can not update it to next version
A:	<p>Automation Builder Installation and Updates will offer the latest version of Drive Composer Pro from the time of release.</p> <p>For Automation Builder 1.1 this was Drive Composer Pro V1.6.3</p> <p>The service pack 1 – Automation Builder 1.1.1 will include Drive Composer Pro V1.8.1</p> <p>For Automation Builder 1.2.2 this was Drive Composer Pro V1.11.2.5</p> <p>Remark: the integration will only work, if you also select the Drive Composer Pro at the moment of installation.</p>
H:	<p>To update the Drive Composer Pro independently of the actual used Automation Builder version, please uninstall Drive Composer Pro via Windows Control Panel and then install it again standalone. The Drive Composer Pro plugin for Automation Builder will still be available.</p>
Q15:	I have installed and activated Automation Builder on a Windows Server but can not open it via Remote Desktop session
A:	<p>Automation Builder requires a network license for execution on Windows Server operating systems.</p>
Q16:	How can I move my Automation Builder license to another PC?

A:	Licenses can be returned (and thus moved to another PC) via http://lc.codemeter.com/32838/depot-return/index.php
H:	For returning a license, entering of the activation key is required.

4.2 Special settings for internet security software “F-Secure”

“F-Secure” software can lead to a complete CodeMeter service interruption, which leads to the situation that an activation can not be finished successfully or the installed licenses are not recognized any more.

Please try this guide as indicated below, whereas the second alternative seems to be the most trustfully solution, since ultimately what has to be done is to do exclude CodeMeter.exe from the scanning process instead of reducing the general security level.

4.2.1 Compatibility mode

F-Secure has a so called “DeepGuard” function, which seems to trigger an advanced process monitoring. To avoid this, activate the compatibility mode within the DeePGuard configuration. The CodeMeter.exe should work without issues afterwards.

4.2.2 Adding CodeMeter to whitelist

Other possibility, and in our opinion the best alternative is to include the CodeMeter.exe into the so called WhiteList for F-Secure. After this no more problems should appear at all.

To add the CodeMeter.exe in the WhiteList please do the following:

*“F-Secure configuration → Virus- and Spyware Scanning
→ Exclude files from scanning (or similar) (this should be an entry with blue letters down in the middle of the app.) → Objects → checkmark on “exclude objects”” and select CodeMeter.exe from the directory: „C:\Program Files (86)\CodeMeter\Runtime\bin“.*

4.3 Support

If the installation or license activation does not succeed and however the Help and Hints in the “Frequently asked question” section does not solve the problem, contact your local ABB support.

Please always provide the following main information and add the support packages described below.

4.3.1 Main information

- Your name, company name, and contact data
- Operating system of your PC
- Time and your location (time zone) when the problem occurred. So support can check log files on server.
- Was this the first installation or did you had a previous installation of Automation Builder (Control Builder Plus) on your PC installed?

4.3.2 Installation log file

If your installation failed and hints in Q1 did not help:

- Open the “Show Log” via the button at the end of the installation screen.
- Save the log file and send it with a description and main information to local ABB PLC support.

The installation log file is also automatically stored under

C:\Users\<user>\AppData\Roaming\AutomationBuilderInstaller\Log\AutomationBuilder-Installer.log

Other Installation log about the beginning of platform installation can be found under

C:\Program Files\ABB\AutomationBuilder\ABB_Setup.log

or

C:\Program Files (x86)\ABB\AutomationBuilder\ABB_Setup.log

4.3.3 License activation support information

If your license activation did not succeed and hints in the frequently asked questions section did not help:

- Generate a license information file for support.
✎ *Chapter 3.5.10 “Generating license information file for support” on page 60*
- If you use a USB-key (dongle) be sure to have it plugged in.
- Very important: add your time zone and the time at which you tried to active the license to the E-Mail, so that ABB support can check the server logs for that UTC time.

4.3.4 Automation Builder log files

Can be found here C:\Users\<user>\Documents\AutomationBuilder\Logs

