

A complex technical background graphic featuring a central circular diagram with concentric rings and radial lines, overlaid with various digital and engineering symbols. These include binary code (0s and 1s), a waveform graph on the left, a circuit board layout on the right, and a 'PLC' (Programmable Logic Controller) label. The overall aesthetic is industrial and digital.

WIBU CodeMeter for iba Users

Installation and Use of CodeMeter Runtime

Manual
Issue 1.3

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The current version is available for download on our web site www.iba-ag.com.

| Version | Date | Revision | Author | Version SW |
|---------|---------|--|--------|------------|
| 1.3 | 06-2023 | Advanced access permissions for licenses | DG/IP | 7.60a |

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1 About this manual

This documentation describes the installation of CodeMeter Runtime from WIBU-SYSTEMS AG. CodeMeter is used by new iba products for licensing.

1.1 Target group and previous knowledge

This manual is aimed at qualified professionals who are familiar with handling electrical and electronic modules as well as communication and measurement technology. A person is regarded as professional if he/she is capable of assessing safety and recognizing possible consequences and risks on the basis of his/her specialist training, knowledge and experience and knowledge of the standard regulations.

1.2 Notations

In this manual, the following notations are used:

| Action | Notation |
|-------------------------------|---|
| Menu command | Menu <i>Logic diagram</i> |
| Calling the menu command | <i>Step 1 – Step 2 – Step 3 – Step x</i> Example: Select the menu <i>Logic diagram – Add – New function block</i> . |
| Keys | <Key name> Example: <Alt>; <F1> |
| Press the keys simultaneously | <Key name> + <Key name> Example: <Alt> + <Ctrl> |
| Buttons | <Key name> Example: <OK>; <Cancel> |
| Filenames, paths | Filename , Path Example: Test.docx |

1.3 Used symbols

If safety instructions or other notes are used in this manual, they mean:

Danger!



The non-observance of this safety information may result in an imminent risk of death or severe injury:

- Observe the specified measures.
-

Warning!



The non-observance of this safety information may result in a potential risk of death or severe injury!

- Observe the specified measures.
-

Caution!



The non-observance of this safety information may result in a potential risk of injury or material damage!

- Observe the specified measures
-

Note



A note specifies special requirements or actions to be observed.

Tip



Tip or example as a helpful note or insider tip to make the work a little bit easier.

Other documentation



Reference to additional documentation or further reading.

2 Introduction

For data storage with iba software and to use additional features, corresponding licenses are required.

These licenses can also be provided in new major versions of iba products (e.g., *ibaPDA v8*) via the WIBU CodeMeter licensing system. New licenses are now delivered using this licensing system.

This change generally has no effect on the ordering process. The appearance of the USB dongle has changed; however, the supplied dongle is nevertheless ready for immediate use and can simply be plugged into the relevant PC.

The use of WIBU CodeMeter opens up new possibilities with regard to the delivery of licenses. The procedure for upgrading existing licenses has also changed.

Finally, the product *ibaLicenseService-V2* is also being replaced because the functionality required to share licenses across the network is already included in WIBU CodeMeter.

As already mentioned, by default the licenses are still delivered as USB dongles, the so-called CmSticks.

Now, however, it is possible to use licenses directly on a PC as a soft license, also called a CmActLicense, without using a USB dongle. In this case, the license is permanently tied to the system hardware properties and is therefore no longer directly transferable from PC to PC.

Regardless of whether the licenses are used via CmDongle or a soft license, they are referred to as a CmContainer. (Or simply as a "container".)

Many of the features described in this manual apply generally to all CmContainers, regardless of whether they are USB dongles or soft licenses.

Each CmContainer is assigned a serial number via which it can be unambiguously identified.

When contacting iba support or ordering license upgrades, this serial number must be provided.

For a quick overview of the necessary steps to transfer and activate licenses, a series of four short video tutorials is available at <https://www.youtube.com/c/ibaAGcom>

These steps are also described in the further course of this manual.

3 Installation and program start

WIBU CodeMeter Runtime contains a set of software components that are required to use software licenses issued on WIBU license containers. The current installer package for CodeMeter Runtime is included in all recent iba software installers. It will be installed automatically if it is missing or if an older version is installed.

Should it be necessary to install CodeMeter Runtime manually, an installer package can be found on the supplied data medium "iba Software & Manuals". Alternatively, the installer is available for download from the WIBU Systems website.

3.1 Manual installation

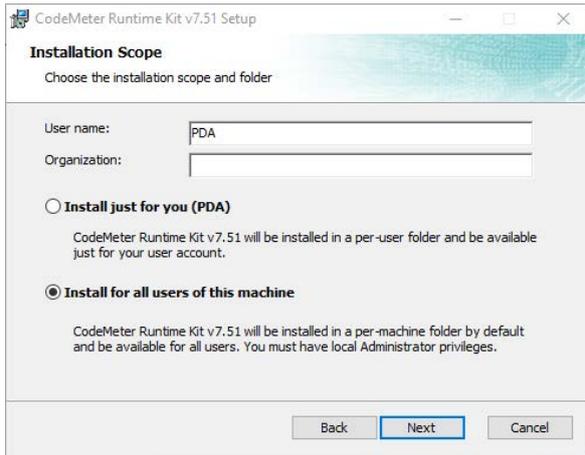


To start the installation, you must execute the file *CodeMeterRuntime.exe*.

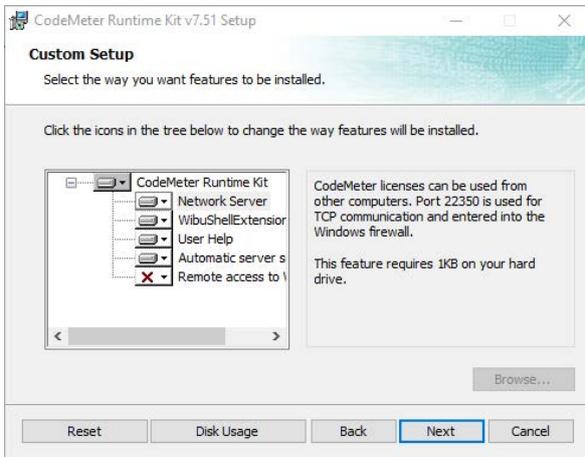
(Example: "CodeMeter Runtime v7.50")



You must approve the terms of the license agreement.

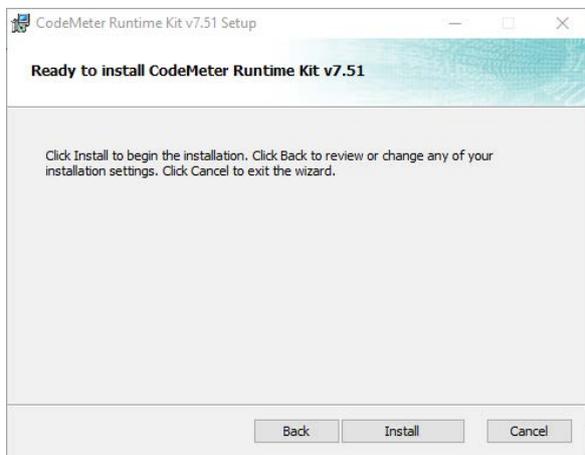


If possible, install CodeMeter Runtime for all users on the computer.



Click on <Next> to prepare the installation of the CodeMeter Runtime kit on your computer.

If you want to share licenses on the local network, please make sure that the "Network Server" function is selected.



Click <Install> to start the installation.



Now, all installation processes have been finished.

Click <Finish> to complete the setup assistant.

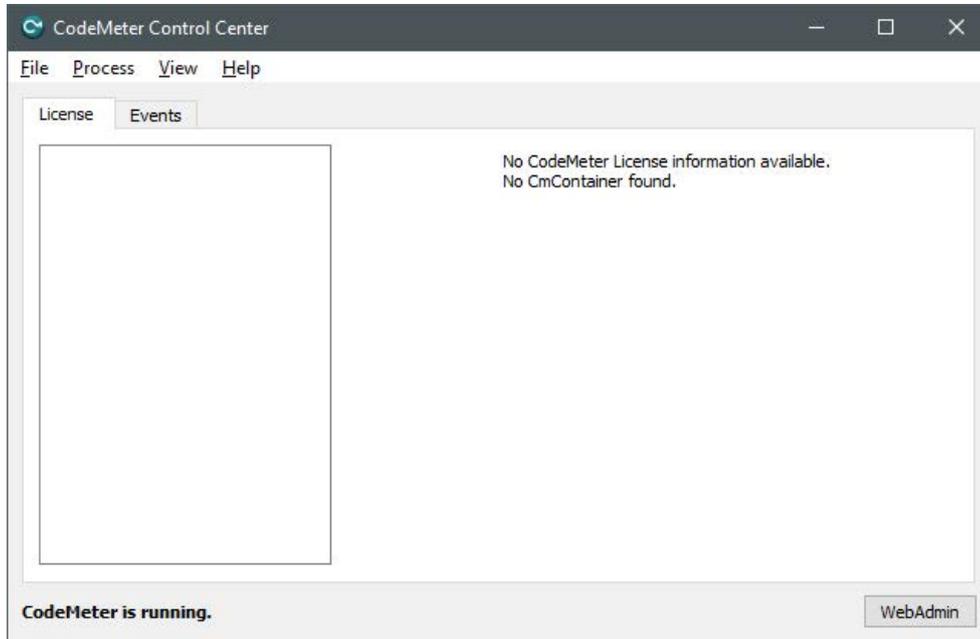
3.2 CodeMeter Control Center in system tray

After the installation, CodeMeter Runtime should be displayed in the system tray. The appearance of the icons indicates the respective status.

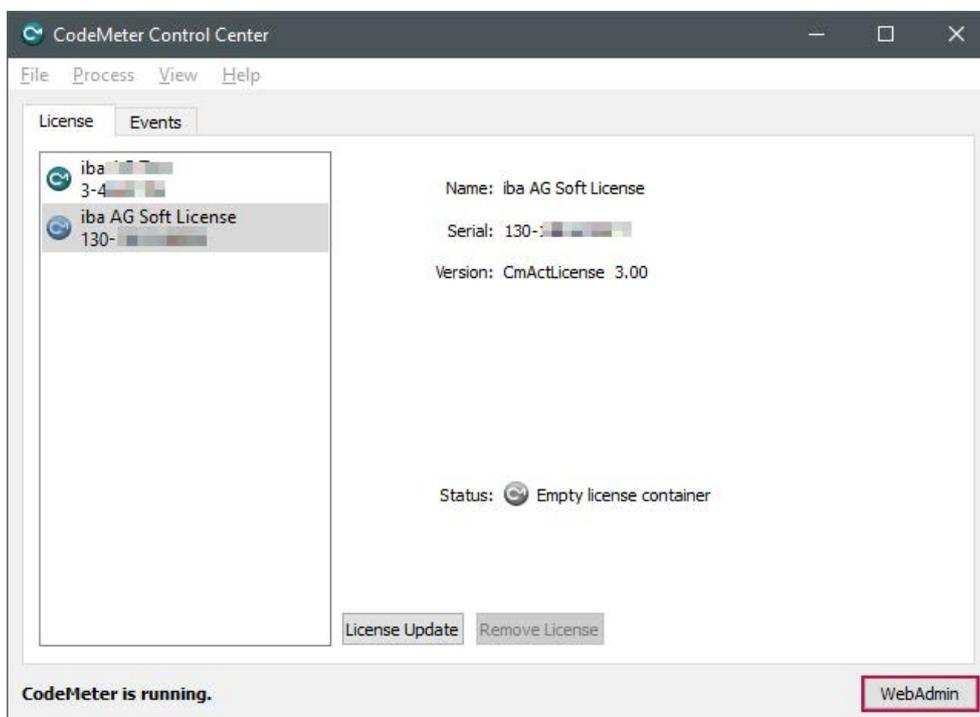
| | |
|---|--|
|  | No CodeMeter container available |
|  | One CodeMeter container is active |
|  | Several CodeMeter containers are active |
|  | An error has occurred with a local container |

4 Viewing existing licenses

CodeMeter Control Center is opened by clicking on the symbol in the system tray. If no CodeMeter licenses are available, the field below the *License* tab is empty and a corresponding note is shown.



If there are already license containers on the PC, they are listed on the left side. Example entries of a CmDongle (starting with 3-xxx) and a soft license (starting with 130-xxx) can be seen in the following image.



After selecting a license container, its content can be displayed. To do this, the <WebAdmin> interface must be called up via the button in the right bottom corner.

Then a browser window opens with an overview of the licenses contained in the container.

Note



The display of WebAdmin via Microsoft Internet Explorer is no longer possible.

| Product Code | Name | Unit Counter | Valid Until | License Quantity | Feature Map |
|--------------|-----------------------------|--------------|-------------|------------------|-------------|
| 1000 | iba License Identifier Test | n/a | n/a | 1 | n/a |
| 10000 | ibaDaVIS | n/a | n/a | 1 | 0x2 |
| 10001 | ibaDaVIS Tiles | n/a | n/a | 48 | 0x2 |

The licenses officially issued by iba are shown in the tab section *6000506 iba AG* in tabular form. After clicking on the respective product number in the *Product Code* column, additional detailed information about the corresponding license entry is shown.

The entry "iba License Identifier", for example, contains information about the buyer. If individual license entries are provided with an expiration date, this is shown in the *Valid Until* column.

| Product Code | Name | Unit Counter | Valid Until | License Quantity | Feature Map |
|--------------|-----------------------------|--------------|-------------|------------------|-------------|
| 1000 | iba License Identifier Test | n/a | n/a | 1 | n/a |
| 10000 | ibaDaVIS | n/a | n/a | 1 | 0x2 |
| 10001 | ibaDaVIS Tiles | n/a | n/a | 48 | 0x2 |

By default, remote read access in the local network is permitted for the WebAdmin tool. If this is not desired, the corresponding setting must be individually made for each computer. To do this, go to the *Configuration* tab and select the menu item *Basic* from the drop-down menu and then *WebAdmin*. Set the option "Deny" under *Remote Read Access*.



CodeMeter WebAdmin



Dashboard Container License Monitoring Diagnosis Configuration Info

Basic Configuration WebAdmin W ? English (US)

Server Search List Proxy WebAdmin Backup

Remote Read Access

- Allow
- Deny

Protocol Selection

- HTTP (sets authentication to none)
- HTTPS (with automatically created self-signed certificate)
- HTTPS with custom certificate

Required Authentication

- None (No remote write access possible!)
- Write Access (requires HTTPS)
- Read and Write Access (requires HTTPS)



5 Transfer and updates of licenses

When ordering licensed articles, the corresponding CodeMeter licenses are always created by iba AG first, and are then ready for transfer to a CmContainer. These licenses are provided via the WebDepot at <https://license.iba-ag.com>

There are basically two ways to work with the WebDepot:

Auto-Update

This checks whether license upgrades have been provided for an existing CmContainer. If this is the case, the upgrades can be transferred without accessing the ticket number in a few steps.

Activation via ticket

A ticket number in the format XXXXX-XXXXX-XXXXX-XXXXX-XXXXX is provided. By entering this ticket number on the start page of the WebDepot, corresponding options for transferring the included licenses can be selected.

5.1 Useful information about transferring licenses

The transfer of licenses to a CmContainer via ticket is also referred to as activation. CodeMeter Runtime must be installed for license activations. If this is not the case, first complete the installation, see [↗ Installation and program start, page 7](#).

Three steps are necessary for each complete transfer:

1. License request

The current state of the CmContainer is transmitted to the WebDepot.

2. License update

The update contains the new state of the CmContainer. Each update is linked to a specific CmContainer and can only be imported on this CmContainer.

3. Receipt

After importing license updates, the receipt file contains the new state of the CmContainer. The transfer of the receipt file to the WebDepot documents the completion of the license transfer.

Depending on the type of license transfer (direct or file-based), the execution of the above steps differs:

■ Direct license transfer – online activation:

License request, license update and creation/upload of the receipt file are performed automatically by the system after the start of the transfer, see [↗ Direct license transfer, page 15](#)

■ File-based license transfer – offline activation:

The license requests, license updates and creation/upload of the receipt file must all be handled by the user. The necessary steps are described in detail in the WebDepot and in this manual, see [↗ File-based license transfer, page 18](#).

Note

If a permanent property change is required for virtual machines (VMs), the license first needs to be returned while in a working state. Please contact iba support to begin with this process.

5.2 Auto-Update

Upgrades or corrections to existing licenses can be provided directly. In such cases, no ticket number is required to perform a license update.

The auto-update function can be accessed via the corresponding <AUTO UPDATE> link in the WebDepot. Select the CmContainer to be checked for pending updates.

Automatic License Update

Welcome to automatic license update.

Here you find license updates for you CmContainer, provided by the vendor of the license.

Select the CmContainer, you want to update and click "Check License Updates". You can transfer these updates during the next step.

Select CmContainer

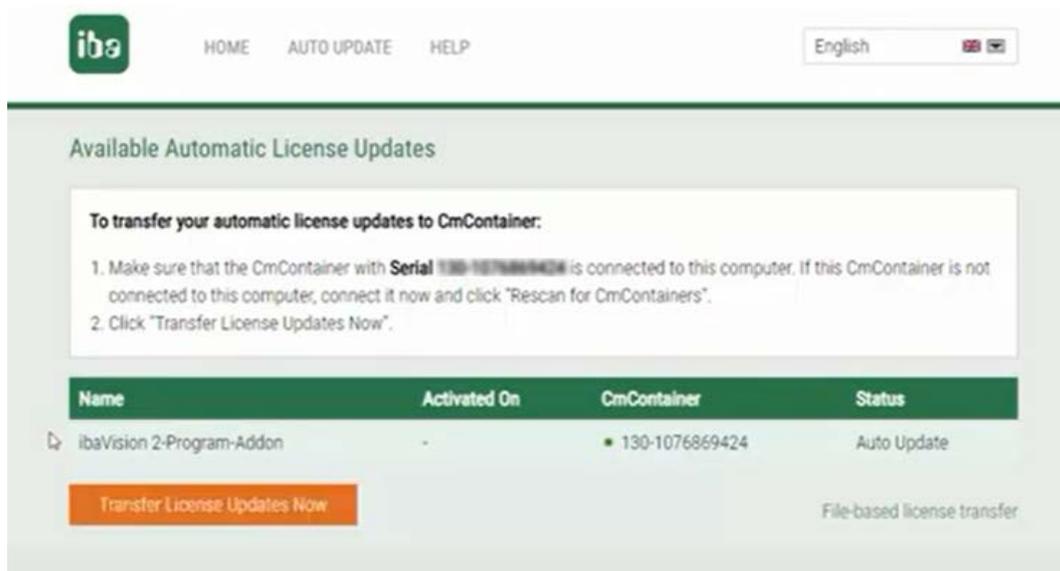
3- [refresh icon]

Check License Update

File-based license transfer

In case of a direct license transfer, i.e., the CmContainer is available on a PC with Internet access, a check for pending updates can be performed immediately by selecting the function <Check License Update>.

If updates are available, the transfer can be started immediately by clicking <Transfer License Updates Now>.



If the CmContainer is not available on a PC with Internet access, the auto-update function can also be executed via a file-based license transfer. This requires another PC with Internet access. The file-based license transfer is described in chapter [File-based license transfer](#), page 18 and is similar to the auto-update procedure.

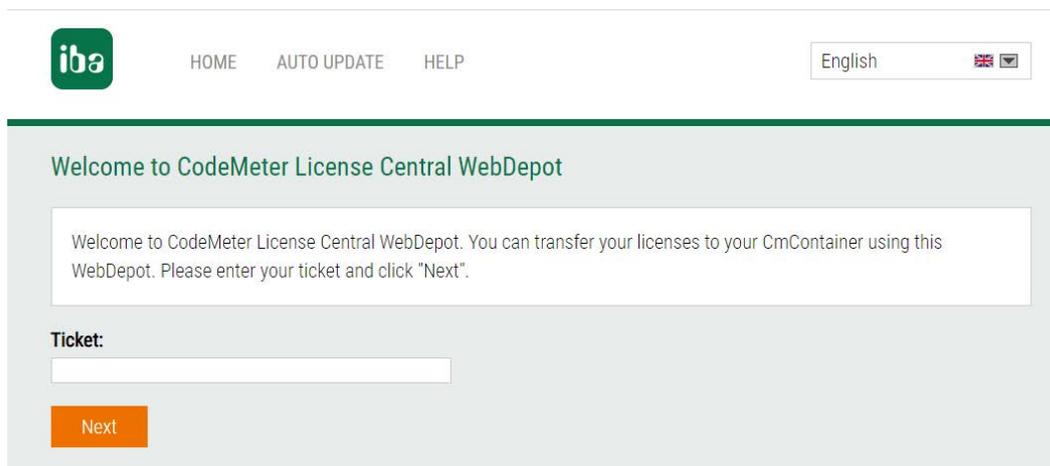
5.3 Direct license transfer

Licenses for iba software are delivered as a ticket number in the following format:

XXXXX-XXXXX-XXXXX-XXXXX-XXXXX

With this ticket number, you can transfer licenses to your CmContainer in the iba AG WebDepot at <https://license.iba-ag.com> and view existing licenses.

Enter the received ticket number in the field *Ticket*.



If the link you get to the iba AG WebDepot includes the ticket number, the ticket number does not need to be entered manually and that step will be skipped.

Note



If you get the message “No available licenses found. All licenses in this ticket are already activated.”, you can click the <AUTO UPDATE> link at the top of the page without entering the ticket information. All licenses that have been issued for your container can then be transferred. In this case it is not necessary to provide further information.

After clicking on <Next>, you will be taken to the list of available licenses.

The screenshot shows the 'My Licenses' page. At the top, there is a navigation bar with the 'iba' logo, 'HOME', 'MY LICENSES', and 'HELP' links, and a language dropdown set to 'English'. Below the navigation bar, the page title is 'My Licenses'. A text input field contains a ticket ID: '25WLS-4N02B-H022A-HV0P2-07192'. Below this is a table with the following data:

| Name | Activated On | CmContainer | Status |
|-----------------------------------|--------------|-------------|-----------|
| iba License Identifier | - | | Available |
| ibaHD-Server-8192 Demo | - | | Available |
| ibaHD-Server API Read Demo | - | | Available |
| ibaHD-Server API Write Demo | - | | Available |
| ibaHD-Server-OPC-UA-HDA-Read Demo | - | | Available |

At the bottom of the table area, there is an orange button labeled 'Activate Licenses'.

Click on <Activate Licenses> to continue. The following view appears:

The screenshot shows the 'Available Licenses - Select the Container Type for Your Licenses' page. The navigation bar is identical to the previous screenshot. Below the navigation bar, the page title is 'Available Licenses - Select the Container Type for Your Licenses'. A text box contains the instruction: 'There are different ways to activate your licenses. Please select the type of the container you want to use for the storage of your licenses.' Below this are two selectable options:

- CmDongle**: Represented by a dongle icon. The text below it says: 'I want my licenses in a dongle to be able to use them offline on different computers.'
- CmActLicense**: Represented by a document icon with a ribbon seal. The text below it says: 'I want my licenses offline on one computer.'

Depending on whether you would like the licenses to be written on a USB dongle (CmDongle) or to a computer-bound soft license (CmActLicense), you must select the corresponding option here.

- CmDongle: Select the option “I want my licenses in a dongle to be able to use them offline on different computers.”
- CmActLicense: Select the option “I want my licenses offline on one computer.”

Then the licenses available on the ticket will be shown again.

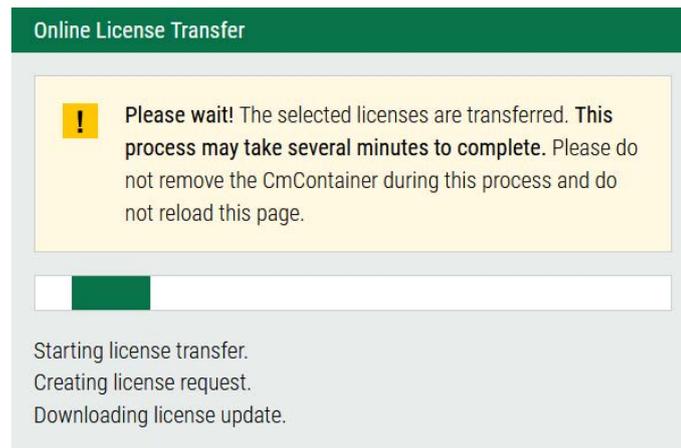
The screenshot shows the CodeMeter web interface. At the top, there is a navigation bar with the 'iba' logo, 'HOME', 'MY LICENSES', and 'HELP' links. A language dropdown menu is set to 'English'. The main content area is titled 'Available Licenses'. It contains a box with instructions: 'To activate your licenses: 1. Select the licenses you want to activate. 2. Select the locally connected CmContainer to which you want to transfer the licenses. 3. Click "Activate Selected Licenses Now".' Below this is a table of available licenses, all of which are checked. At the bottom, there is a 'Select CmContainer' dropdown menu and an 'Activate Selected Licenses Now' button. A note 'File-based license transfer' is visible in the bottom right corner.

| <input checked="" type="checkbox"/> | Name | Activated On | CmContainer | Status |
|-------------------------------------|-----------------------------------|--------------|-------------|-----------|
| <input checked="" type="checkbox"/> | iba License Identifier | - | | Available |
| <input checked="" type="checkbox"/> | ibaHD-Server-8192 Demo | - | | Available |
| <input checked="" type="checkbox"/> | ibaHD-Server API Read Demo | - | | Available |
| <input checked="" type="checkbox"/> | ibaHD-Server API Write Demo | - | | Available |
| <input checked="" type="checkbox"/> | ibaHD-Server-OPC-UA-HDA-Read Demo | - | | Available |

Make sure that the correct CmDongle or the correct soft license is selected under *Select CmContainer* if several license containers are currently active on the computer.

Click on <Activate Selected Licenses Now> to start the actual transmission of licenses to the selected license container. During this process, the licenses are “booked out” of the ticket and “booked in” to the license container.

The process is shown in a status window.



After completion, the successful transfer of licenses is confirmed.



The licenses now present on the license container can be displayed in the WebAdmin, see chapter ↗ *Viewing existing licenses*, page 10.

5.4 File-based license transfer

If you want to activate a new soft license on a **PC without Internet access**, you will need to perform some steps on a **PC with Internet access** and transfer individual files between the two PCs. Of course, you can temporarily connect a CmDongle to a PC that is connected to the Internet and has CodeMeter Runtime installed. However, this is not possible with a soft license.

Detailed descriptions are displayed as soon as you start the license-transfer process in the iba AG WebDepot.

If you are using a PC with Internet access, go to <https://license.iba-ag.com> and enter your ticket number, or use a link that includes the ticket number if you have received one.

Your available licenses will be listed. In the next step, a page will appear to select the container type in which these licenses should be activated.

Available Licenses - Select the Container Type for Your Licenses

There are different ways to activate your licenses. Please select the type of the container you want to use for the storage of your licenses.



CmDongle

I want my licenses in a dongle to be able to use them offline on different computers.



CmActLicense

I want my licenses offline on one computer.

On the following page it is important that you switch to <File-based license transfer>.

Available Licenses

To activate your licenses:

1. Select the licenses you want to activate.
2. Select the locally connected CmContainer to which you want to transfer the licenses.
3. Click "Activate Selected Licenses Now".

| <input checked="" type="checkbox"/> | Name | Activated On | CmContainer | Status |
|-------------------------------------|-----------------------------------|--------------|-------------|-----------|
| <input checked="" type="checkbox"/> | iba License Identifier | - | | Available |
| <input checked="" type="checkbox"/> | ibaHD-Server-8192 Demo | - | | Available |
| <input checked="" type="checkbox"/> | ibaHD-Server API Read Demo | - | | Available |
| <input checked="" type="checkbox"/> | ibaHD-Server API Write Demo | - | | Available |
| <input checked="" type="checkbox"/> | ibaHD-Server-OPC-UA-HDA-Read Demo | - | | Available |

Select CmContainer
130- (iba AG Soft License) 

Activate Selected Licenses Now
File-based license transfer

The page will then reload and the instructions in the white box will change.

To activate your licenses via file transfer - First step "Upload Request":

If you have activated licenses from this ticket already, you can transfer additional licenses into the same CmContainer(s). If you want to use another CmContainer, you need a license request file of this new CmContainer.

1. Select an already used CmContainer or create a license request file with **Firm Code 6000506** for the CmContainer where you want to transfer the licenses to. This file can for example be created with CodeMeter Control Center. How it works 
2. Select the licenses you want to activate.
3. Select the created license request file.
4. Click "Continue".

You can either follow the instructions in the WebDepot to proceed with the license transfer, or continue reading in chapter [➤ Importing the license update](#), page 30.

5.4.1 File-based setup of a soft license

This chapter describes how to set up a soft license on a PC without Internet access.

Note



If you want to update an **existing** soft license via a file-based license transfer, you can skip this chapter.

To save the soft license to the target PC, follow the instructions in the white box.

To activate your licenses via file transfer - First step "Upload Request":

If you have activated licenses from this ticket already, you can transfer additional licenses into the same CmContainer(s). If you want to use another CmContainer, you need a license request file of this new CmContainer.

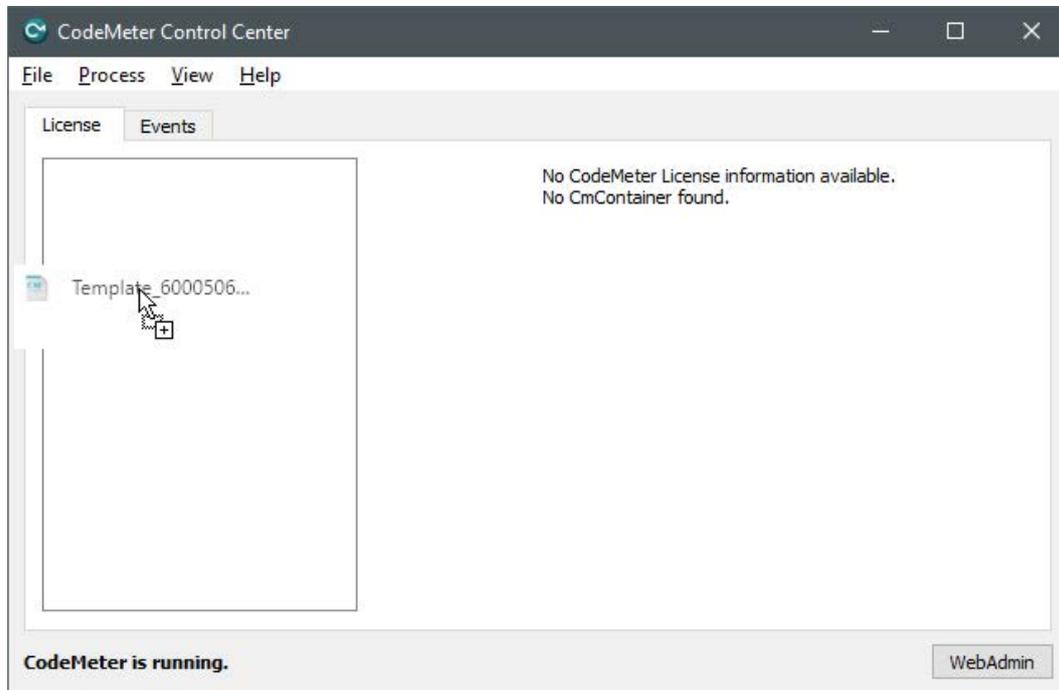
1. Select an already used CmContainer or create a license request file with **Firm Code 6000506** for the CmContainer where you want to transfer the licenses to. This file can for example be created with CodeMeter Control Center. How it works 
2. Select the licenses you want to activate.
3. Select the created license request file.
4. Click "Continue".

Click <How it works [+]> to see more instructions under list item 1.

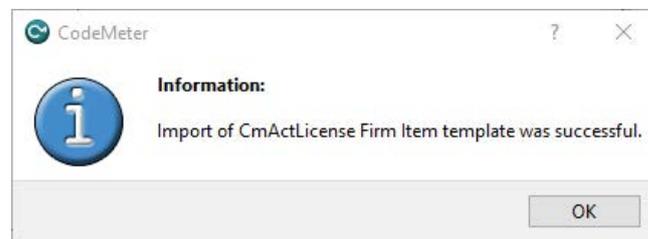
1. Select an already used CmContainer or create a license request file with **Firm Code 6000506** for the CmContainer where you want to transfer the licenses to. This file can for example be created with CodeMeter Control Center. How it works 
 - a. Start CodeMeter Control Center on the computer where the desired CmContainer is.
 - b. Select this CmContainer. If no CmContainer is present on that computer, you can download a template here: [Download template now](#). Import this template by dragging the downloaded file to CodeMeter Control Center.
 - c. Click "License Update".
 - d. Follow the instructions of the "CmFAS Assistant". Choose the option "Create license request".
 - e. Choose a filename for the license request file.
 - f. Click "Commit" to save the license request file.
 - g. Transfer the license request file that you just created to this computer.

In this section, start with step *b* and download the license template to transfer it to the PC without Internet access. To do this, open the CodeMeter Control Center on this PC; it is usually located in the system tray once CodeMeter Runtime has been installed.

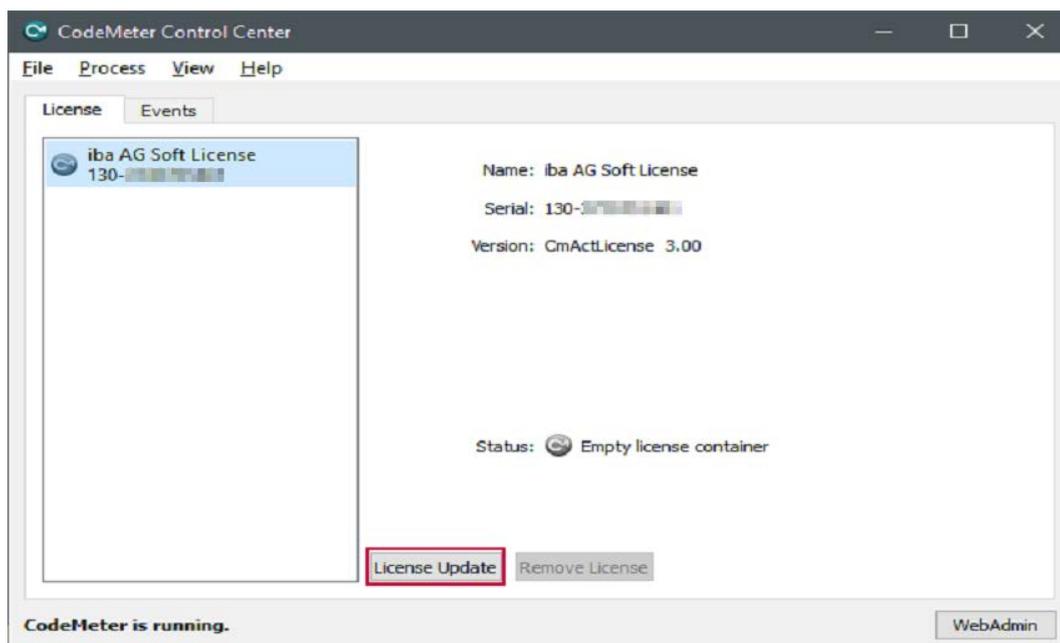
Now drag the downloaded license template (Template_*.WibuCmLIF) into the CodeMeter Control Center window.



The successful import is indicated by the following message:



As a result, a new container is created with a serial number (starting with 130-xxx). This container is now also tied to the PC's hardware properties and can be used in the same way as a USB dongle connected to the PC. However, it does not contain any licenses at this point.



Note



When activating soft licenses in virtual machines (VMs), they are tied to the hardware properties as per the current state of the VM.

Any changes, especially to the number/configuration of CPUs or network adapters, will "break" the license. In this case, you can reset the properties of the VM to the state when the license was activated. After restarting the VM, the license should work again.

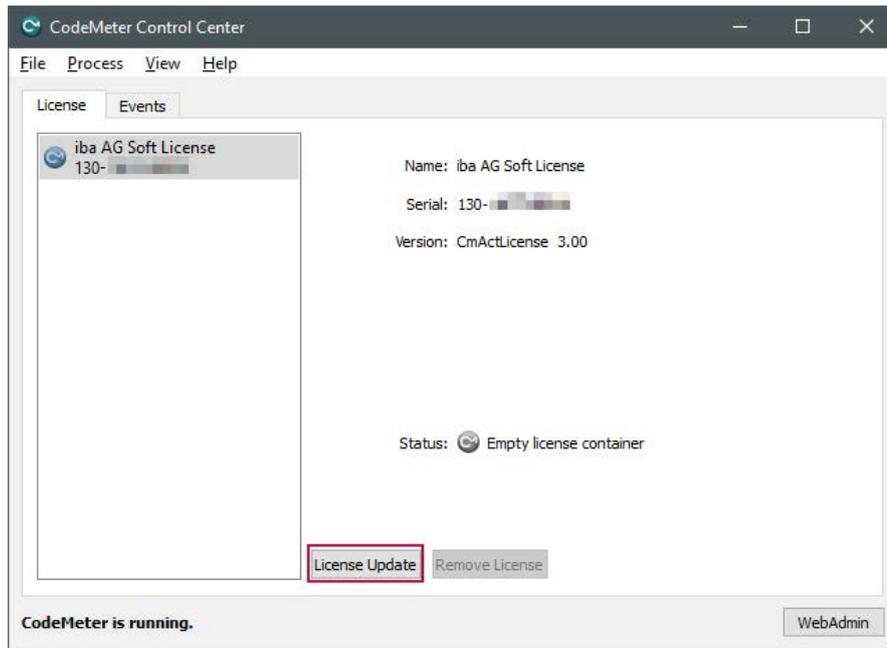
One way to decouple soft licenses from changes in hardware properties is to use a license server. The configuration required for this is described in the chapters [↗ Network server configuration, page 37](#) and [↗ License management on a system with multiple containers, page 43](#).

For more information about license updates, see [↗ Importing the license update, page 30](#).

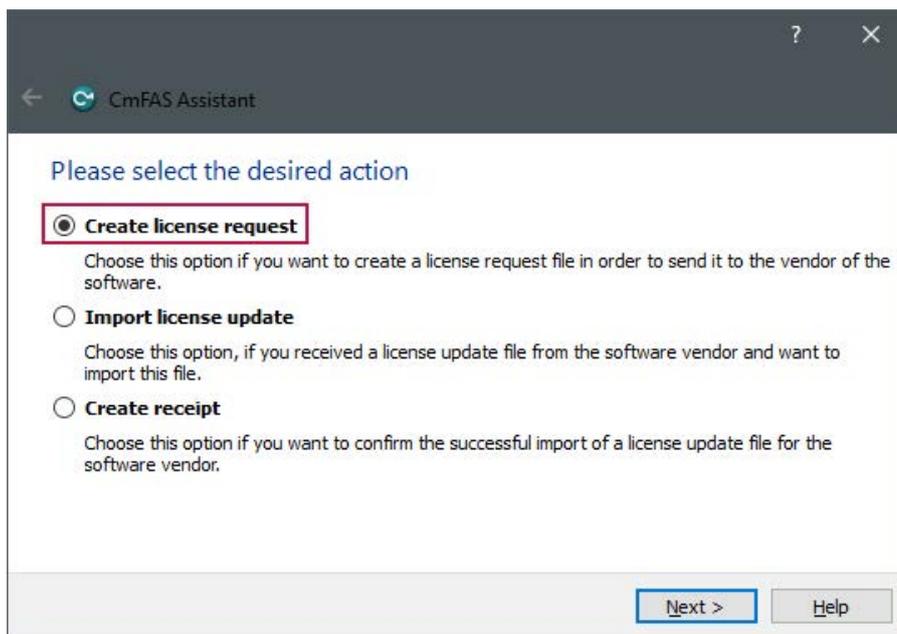
5.4.2 Creating a license request file

A request file for activation of a container license must be created on the PC where this container is active.

To do this, open the CodeMeter Control Center, select the container and click <License Update>.



The welcome window of the CmFAS (CodeMeter Field Activation Service) wizard opens. Click on <Next> and in the next window select the option "Create license request". You can close the window via the [Esc] button.

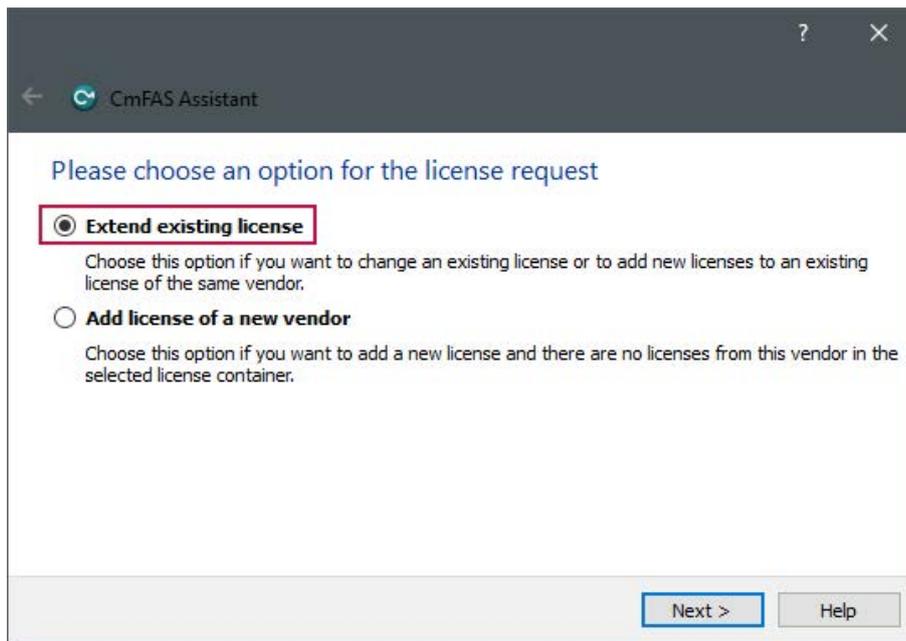


Click <Next>. A license request selection dialog appears.

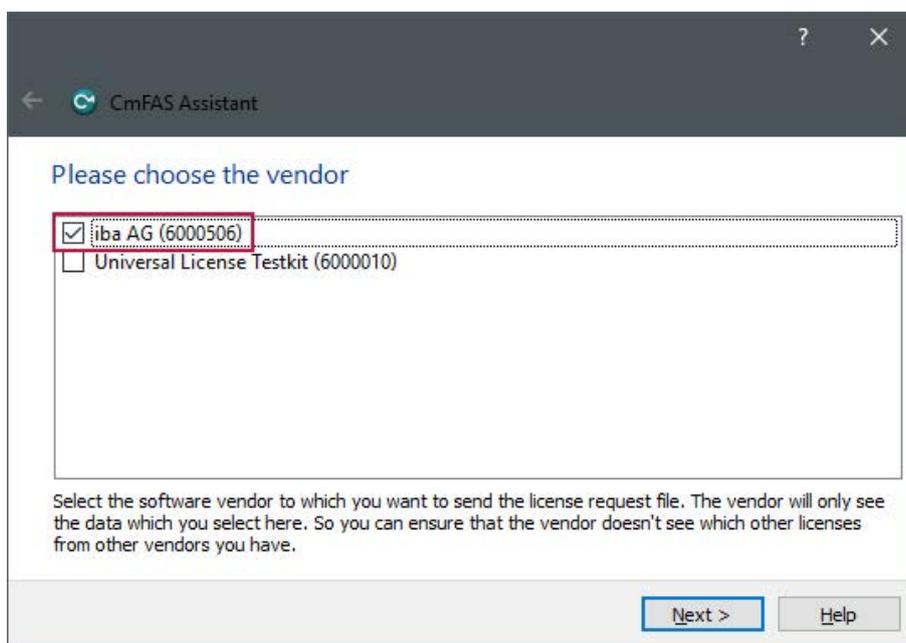
At this point, the license request with a CmDongle differs from the license request with a soft license.

License request with CmDongle:

If you create the license request file with a CmDongle and want to change/extend an existing license, select the option "Extend existing license".



Now select the entry "iba AG (6000506)" from the list of software manufacturers.

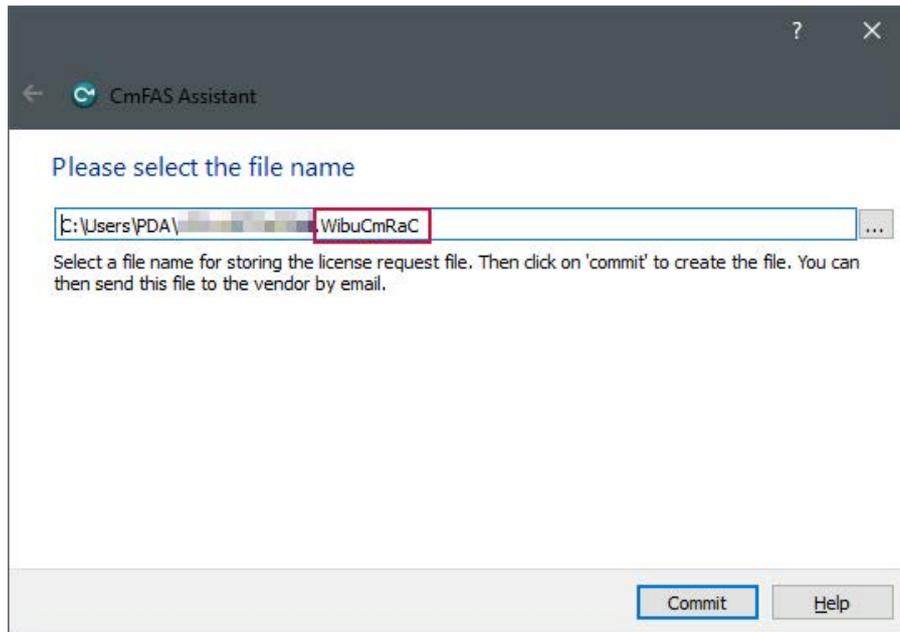


Note



The remaining steps for a CmDongle and a soft license are identical!

Now select the storage location and file name for the license request file and click on <Commit>.



You can close the confirmation window that appears.

You will need the generated file with the extension *.WibuCmRaC for the offline license transfer in the WebDepot, see chapter ↗ *Offline license transfer in WebDepot*, page 25.

5.4.3 Offline license transfer in WebDepot

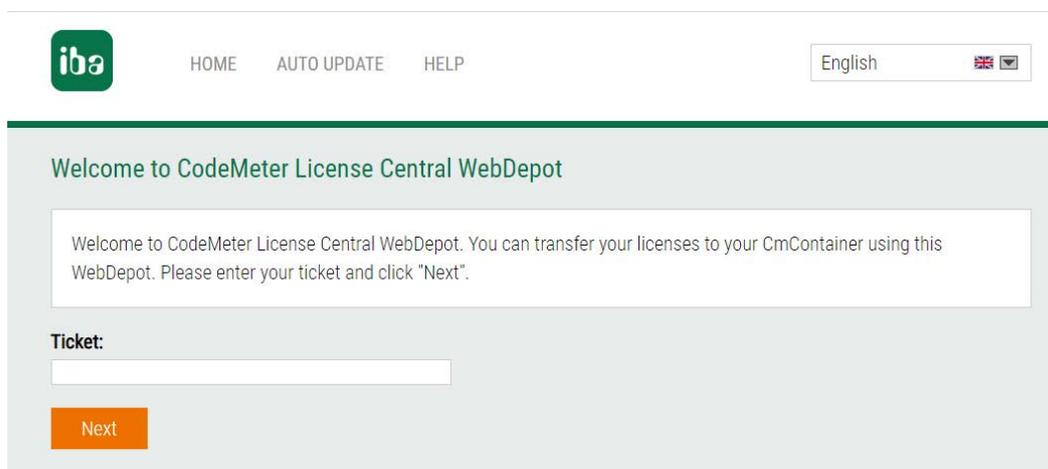
Copy or transport the license request file you created (see ↗ *Creating a license request file*, page 22) to a PC with Internet access. You will work with WebDepot there.

Licenses for iba software are delivered as ticket number in the following format:

XXXXX-XXXXX-XXXXX-XXXXX-XXXXX

You can use this ticket number to view the existing licenses in WebDepot at <https://license.iba-ag.com>

For this purpose, enter the received ticket number in the field *Ticket*.



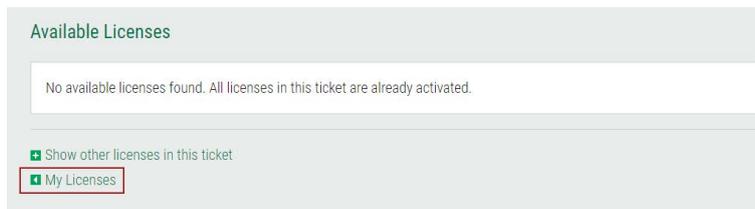
After clicking on <Next>, you will be taken to the list of available licenses.

Note

The ticket number is frequently directly integrated into the link to WebDepot upon delivery by iba. In this case, you will see an overview of the available licenses right after calling up the link.

Note

If the following message appears "No available licenses found. All licenses in this ticket are already activated.", click on <My licenses> to continue the transfer.



Alternatively, the <AUTO UPDATE> function can also be executed.

iba HOME MY LICENSES HELP English

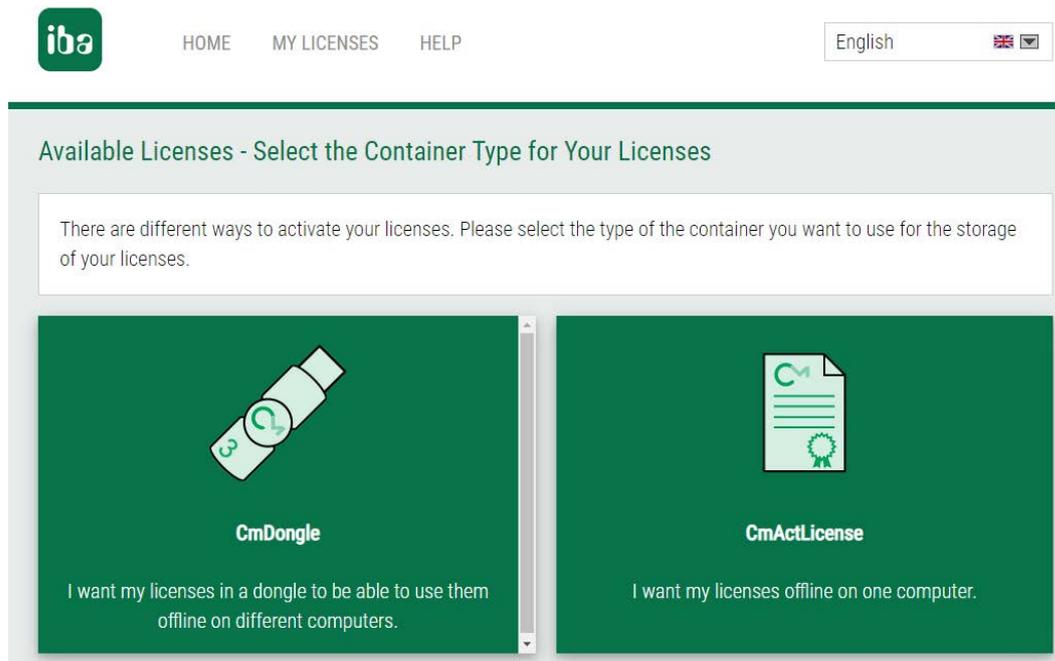
My Licenses

Ticket: [REDACTED]

| Name | Activated On | CmContainer | Status |
|-----------------------------------|--------------|-------------|-----------|
| iba License Identifier | - | | Available |
| ibaHD-Server-8192 Demo | - | | Available |
| ibaHD-Server API Read Demo | - | | Available |
| ibaHD-Server API Write Demo | - | | Available |
| ibaHD-Server-OPC-UA-HDA-Read Demo | - | | Available |

Activate Licenses

Click on <Activate Licenses> to continue.

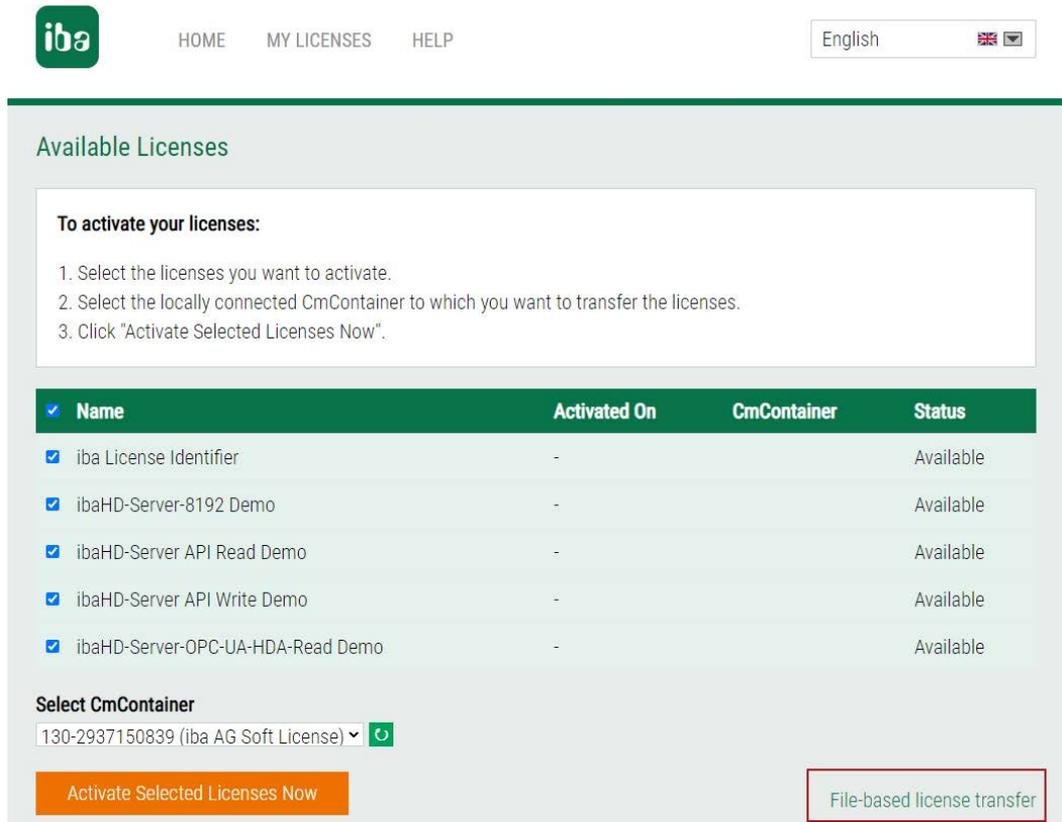


Depending on whether you would like the licenses to be written on a USB dongle (CmDongle) or in a computer-bound soft license (CmActLicense), you must select the corresponding option here.

- CmDongle: Select the option “I want my licenses in a dongle to be able to use them offline on different computers”.
- CmActLicense: Select the option “I want my licenses offline on one computer.”

Then the licenses available on the ticket will be shown again.

Now click at the bottom right on <File-based license transfer>.



The screenshot shows the CodeMeter web interface. At the top left is the 'iba' logo. Navigation links include 'HOME', 'MY LICENSES', and 'HELP'. A language dropdown menu is set to 'English' with a flag icon. The main content area is titled 'Available Licenses'. It contains a box with instructions: 'To activate your licenses: 1. Select the licenses you want to activate. 2. Select the locally connected CmContainer to which you want to transfer the licenses. 3. Click "Activate Selected Licenses Now".' Below this is a table of licenses:

| <input checked="" type="checkbox"/> | Name | Activated On | CmContainer | Status |
|-------------------------------------|-----------------------------------|--------------|-------------|-----------|
| <input checked="" type="checkbox"/> | iba License Identifier | - | | Available |
| <input checked="" type="checkbox"/> | ibaHD-Server-8192 Demo | - | | Available |
| <input checked="" type="checkbox"/> | ibaHD-Server API Read Demo | - | | Available |
| <input checked="" type="checkbox"/> | ibaHD-Server API Write Demo | - | | Available |
| <input checked="" type="checkbox"/> | ibaHD-Server-OPC-UA-HDA-Read Demo | - | | Available |

Below the table is a 'Select CmContainer' dropdown menu showing '130-2937150839 (iba AG Soft License)' with a refresh icon. At the bottom left is an orange button 'Activate Selected Licenses Now'. At the bottom right is a button 'File-based license transfer' with a red border.

On the next page under *Pick a license request file (*.WibuCmRaC) of another CmContainer*, you must select the license request file you created (see chapter ↗ *Creating a license request file*, page 22). Depending on the browser used, the dialog for this may look different.

Available Licenses

Upload Request
Download Update
Upload Receipt

To activate your licenses via file transfer - First step "Upload Request":

If you have activated licenses from this ticket already, you can transfer additional licenses into the same CmContainer(s). If you want to use another CmContainer, you need a license request file of this new CmContainer.

1. Select an already used CmContainer or create a license request file with **Firm Code 6000506** for the CmContainer where you want to transfer the licenses to. This file can for example be created with CodeMeter Control Center. [How it works](#) +
2. Select the licenses you want to activate.
3. Select the created license request file.
4. Click "Continue".

| | Name | Activated On | CmContainer | Status |
|-------------------------------------|-----------------------------------|--------------|-------------|-----------|
| <input checked="" type="checkbox"/> | iba License Identifier | - | | Available |
| <input checked="" type="checkbox"/> | ibaHD-Server-8192 Demo | - | | Available |
| <input checked="" type="checkbox"/> | ibaHD-Server API Read Demo | - | | Available |
| <input checked="" type="checkbox"/> | ibaHD-Server API Write Demo | - | | Available |
| <input checked="" type="checkbox"/> | ibaHD-Server-OPC-UA-HDA-Read Demo | - | | Available |

Select an already used CmContainer

No CmContainer found! ▾

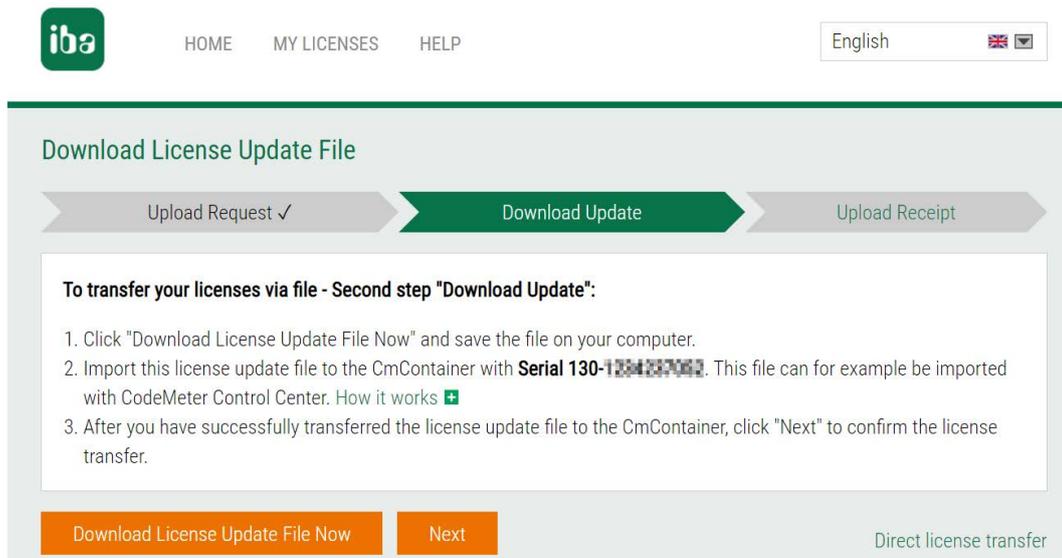
or

Pick a license request file (*.WibuCmRaC) of another CmContainer

Datei auswählen | Keine ausgewählt

Start Activation Now
Direct license transfer

Once the file has been selected, you have to start the upload with <Start Activation now>. A new dialog window appears from which you can now download the license update file.



The screenshot shows the CodeMeter web interface. At the top left is the 'iba' logo. Navigation links include 'HOME', 'MY LICENSES', and 'HELP'. A language dropdown menu is set to 'English'. The main content area is titled 'Download License Update File' and features a progress bar with three steps: 'Upload Request ✓', 'Download Update' (highlighted in green), and 'Upload Receipt'. Below the progress bar, a text box provides instructions for the second step: 'To transfer your licenses via file - Second step "Download Update":'. The instructions are: 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 130-1304237002. 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. At the bottom of the text box are two buttons: 'Download License Update File Now' and 'Next'. A link for 'Direct license transfer' is also visible.

To do this, click <Download License Update File Now> and save the file (*.WibuCmRaU) to a path of your choice.

You need this file to update the license container, see chapter ↗ *Importing the license update*, page 30.

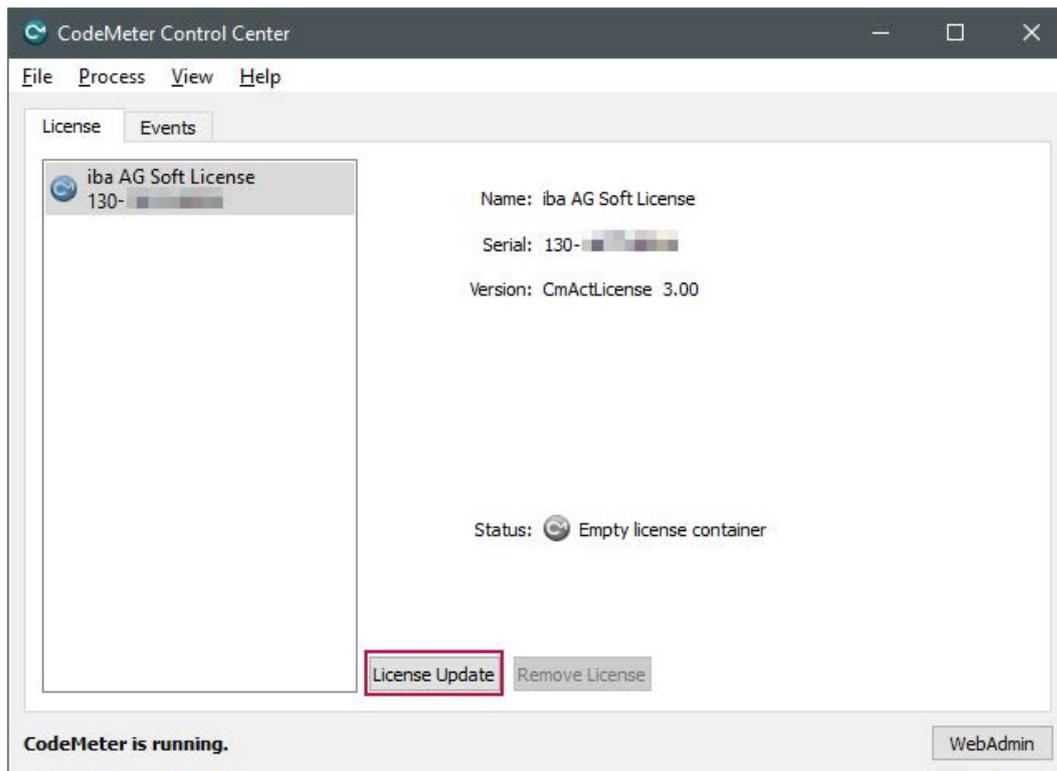
5.4.4 Importing the license update

To be able to carry out this step, you need a file with the ending *.WibuCmRaU.

Chapters ↗ *Creating a license request file*, page 22 and ↗ *Offline license transfer in WebDepot*, page 25 describe the creation of this file. Alternatively, files with this ending can also be provided directly by iba Support given certain prerequisites.

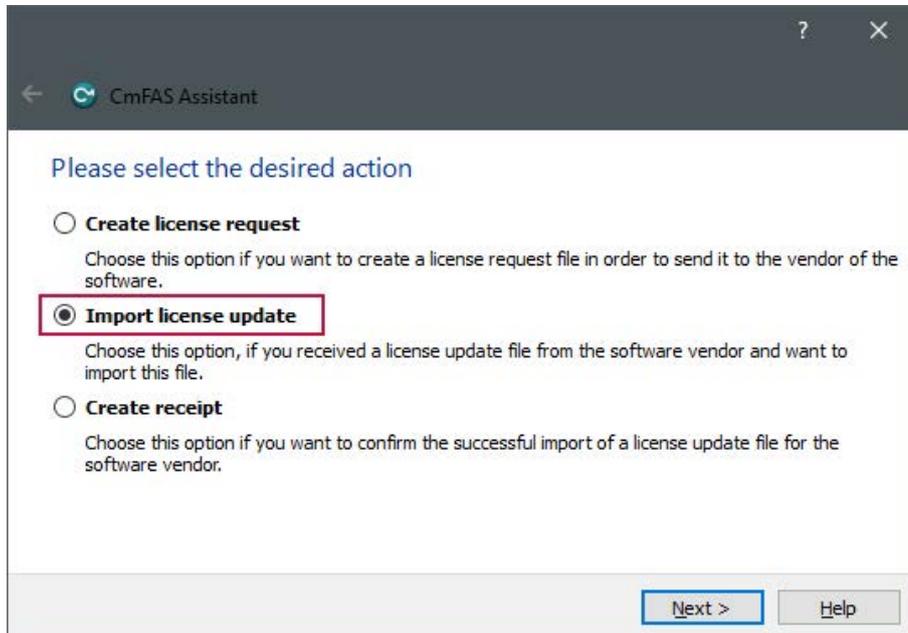
The mentioned license update file must be present on the PC on which the container to be updated is active.

To import the update, open CodeMeter Control Center and click on <License Update>.

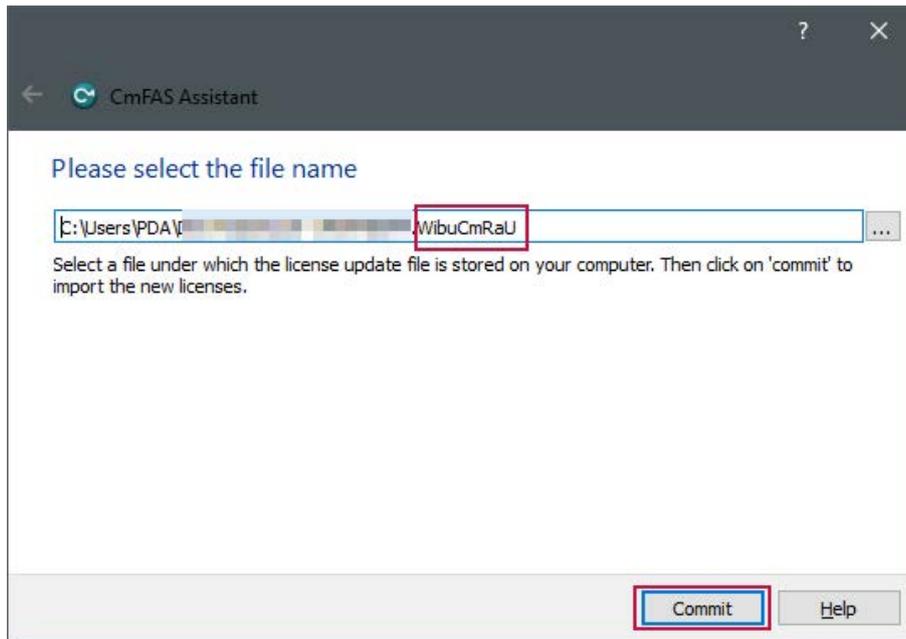


The welcome window of the CmFAS (CodeMeter Field Activation Service) wizard opens. Click <Next> to access the options selection.

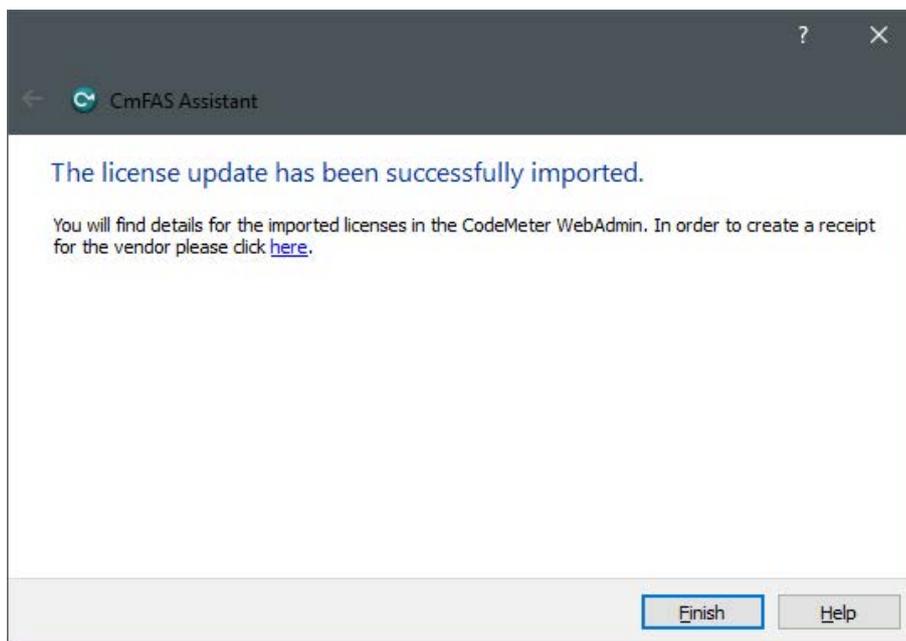
Now select “Import license update” and then click <Next>.



Select the WibuCmRaU file provided for the container and click on <Commit>.



As soon as the update has been executed, a corresponding note appears.



The licenses are now available on the container.

Please proceed with chapter ↗ *Creating a license receipt file and uploading it to the WebDepot*, page 33

5.4.5 Creating a license receipt file and uploading it to the WebDepot

This step confirms the successful execution of the license transfer.

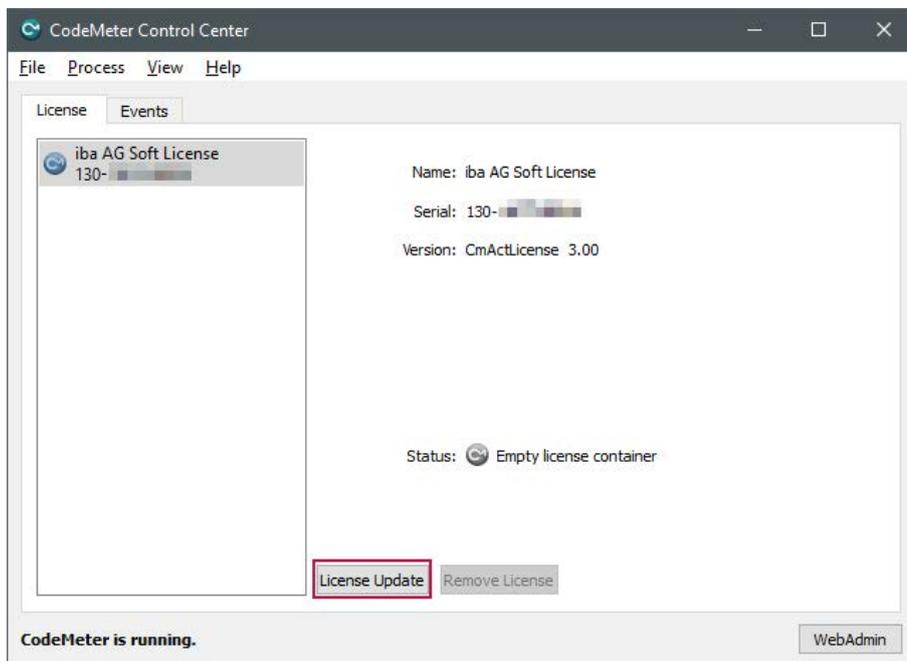
Note



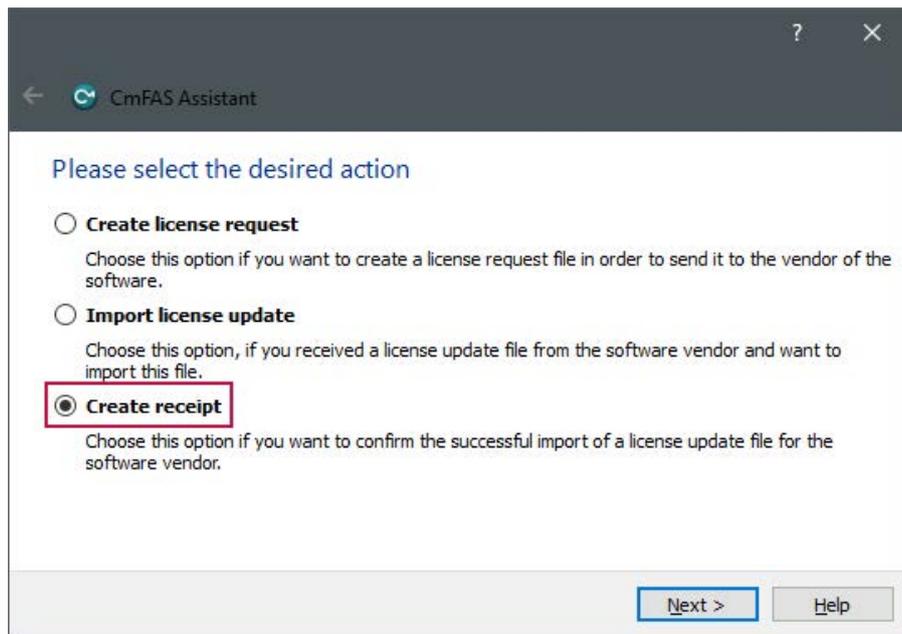
With the online license transfer (see chapter ↗ *Direct license transfer*, page 15), the license receipt process is carried out automatically. Manually uploading the license receipt file is only necessary if an update file (*.WibuCmRaU) has been imported via the CodeMeter Control Center (see chapter ↗ *Importing the license update*, page 30).

Creating the receipt file

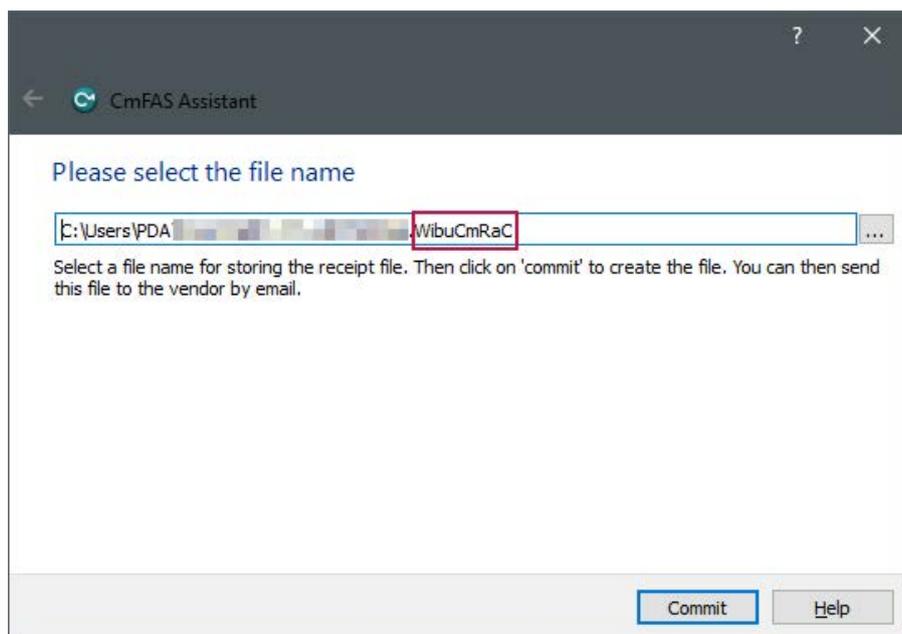
To create a license receipt file, click on <License Update> in the CodeMeter Control Center.



The welcome window of the CmFAS (CodeMeter Field Activation Service) wizard opens. Click on <Next> and select the "Create receipt" option in the next window.



Click on <Next> and then you can select the path again under which the license receipt file is to be saved.



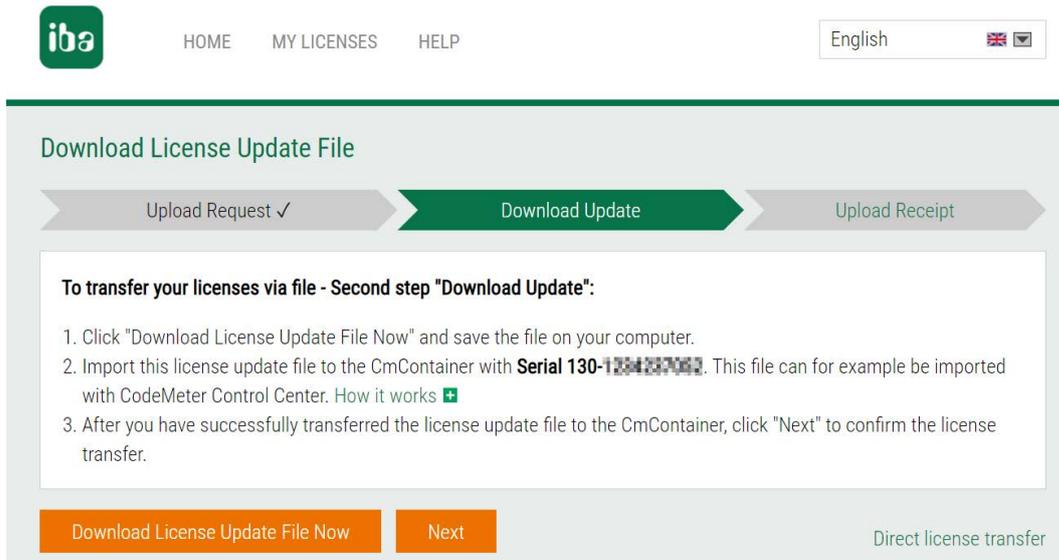
The license receipt file also has the extension *.WibuCmRaC. You can now overwrite a previously created license request file (see chapter ↗ *Creating a license request file*, page 22).

After you click on <Commit>, another message confirming the successful creation of the license receipt file appears.

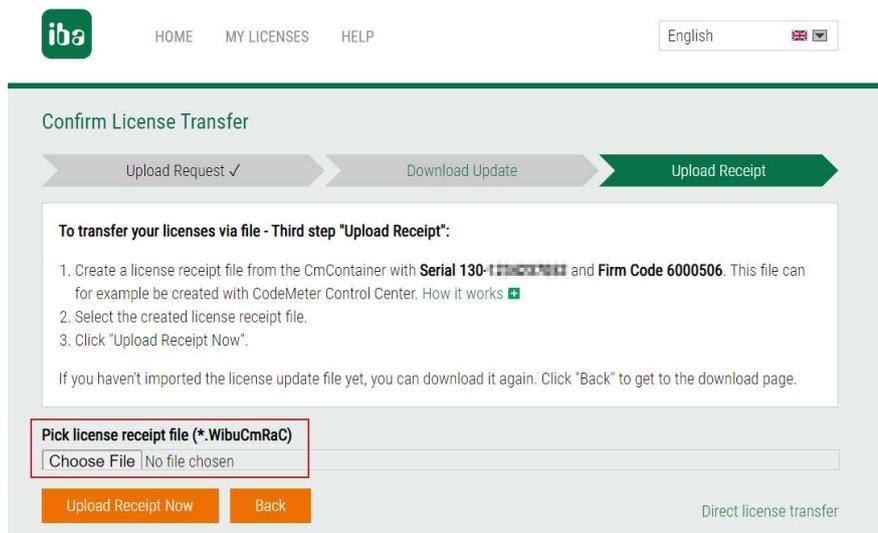
Uploading the receipt file

If you still have the WebDepot page open from which you downloaded the license update file (see chapter ↗ *Offline license transfer in WebDepot*, page 25), you can directly upload the license receipt file from there.

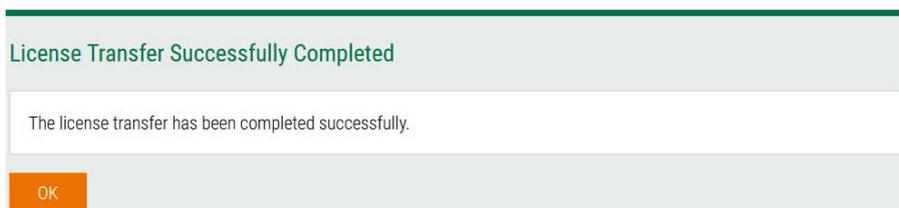
To do this, click <Next> in the browser.



Depending on the browser used, the buttons used to select the file may look different. In the example shown, go to *Pick license receipt file (*.WibuCmRaC)* and select the saved receipt file.



Once the file has been selected, click on <Upload Receipt Now> and a confirmation window will appear.



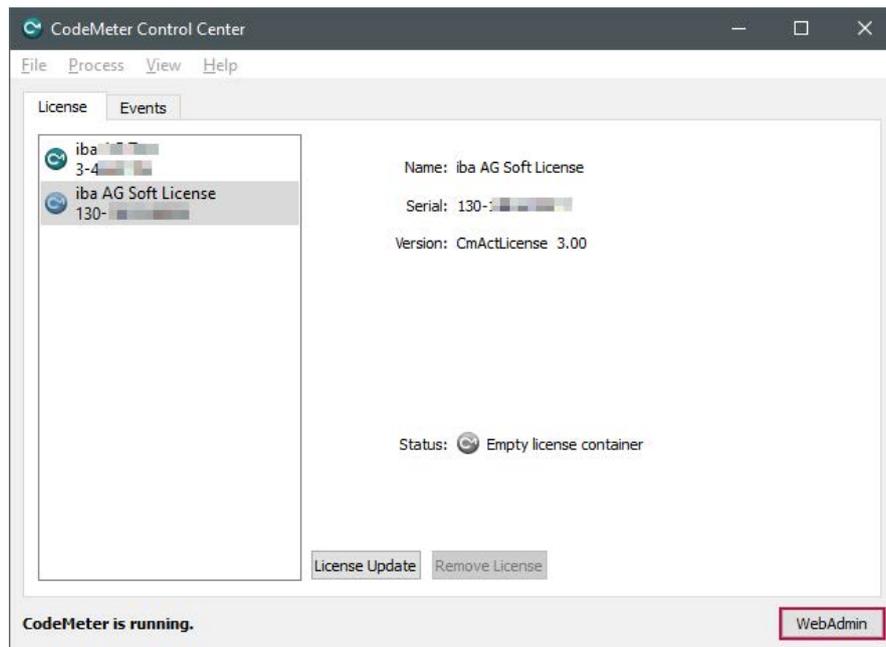
The offline license transfer has now been successfully completed.

6 Sharing licenses in the local network

By installing CodeMeter Runtime, you can share licenses that are available on one PC with other PCs in the local network. This requires an executable installation of CodeMeter Runtime on each PC that will share a license.

As a further requirement, the "Network Server" component must be installed and enabled on the PC from which the licenses are shared, see also ↗ *Manual installation*, page 7.

All settings for license sharing in the network are configured in the browser using CodeMeter WebAdmin, which can be accessed via the corresponding button in the CodeMeter Control Center.

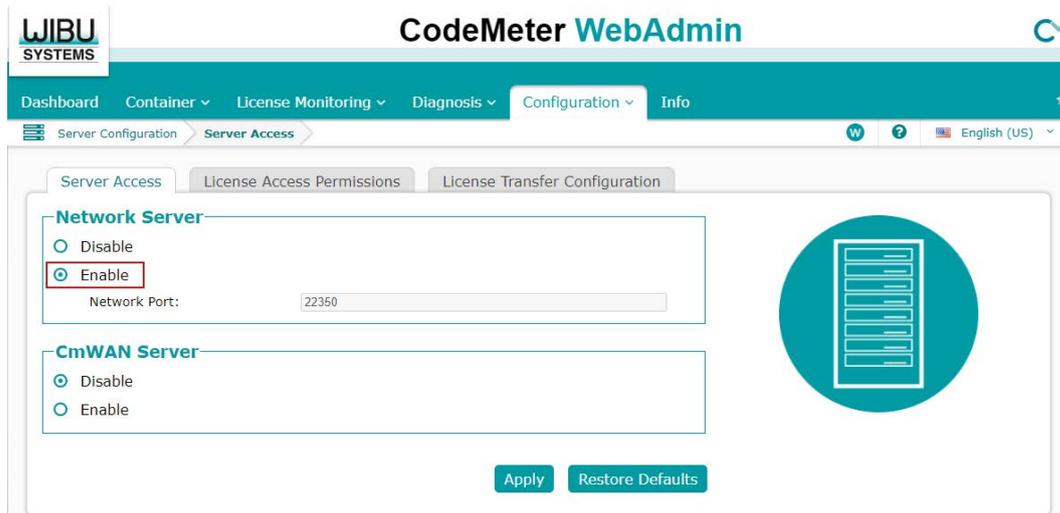


For *ibaAnalyzer* from version 8 and *ibaDatCoordinator* from version 3, the network server functionality replaces license sharing via the product *ibaLicenseService-V2*.

6.1 Network server configuration

The network server is used to determine which licenses are shared and which PCs are given access to these licenses.

To enable the network server, open the *Configuration - Server - Server Access* menu in CodeMeter WebAdmin.

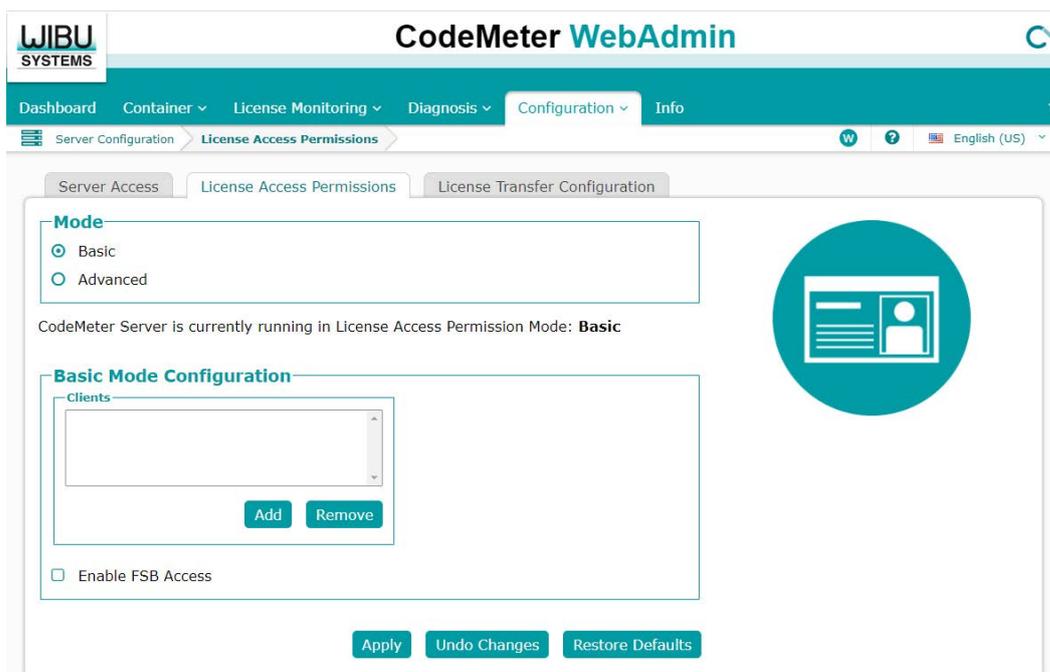


The setting under *Network Server* must be set to "Enable".

The default port 22350 is registered with IANA for WIBU CodeMeter.

6.2 License access permissions

The menu *Configuration - Server - License Access Permissions* is used to configure the access permissions.



By default, the mode is set to "Basic", i.e., each authorized client has access to **all** locally available licenses.

If the list under Clients is empty, there is no restriction and all clients on the network can use the network server's licenses.

To restrict access to individual clients, corresponding entries with the relevant host name or IP address can be created using the <Add> button. The edited configuration is enabled by clicking <Apply>.

Use <Undo Changes> to undo the changes that have not yet been applied.

Click on <Restore Defaults> to reset the settings to the default state. This clears the client list and ensures that no network access restrictions apply to local licenses.

6.3 Advanced access permissions

In "Advanced" mode, detailed access permissions for licenses can be defined.

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 to show 'Server Configuration' and 'License Access Permissions'. The 'License Access Permissions' page has three tabs: 'Server Access', 'License Access Permissions', and 'License Transfer Configuration'. The 'Mode' section has two radio buttons: 'Basic' and 'Advanced', with 'Advanced' selected. Below this, it states 'CodeMeter Server is currently running in License Access Permission Mode: **Basic**'. The 'Advanced Mode Configuration' section is divided into 'Global access rules' and 'Specific access rules'. The 'Global access rules' section includes a description, an 'Add new access rule' button, and a 'Default action' dropdown set to 'Allow'. The 'Specific access rules' section lists 'All Containers' and 'Add new Firm Code...' with an 'Add new Container...' button. At the bottom, there are three buttons: 'Apply', 'Undo Changes', and 'Restore Defaults'.

The configuration is explained in more detail below using two examples,

see chapter [Enabling individual licenses for multiple clients](#), page 39

see chapter [License management on a system with multiple containers](#), page 43

6.3.1 Enabling individual licenses for multiple clients

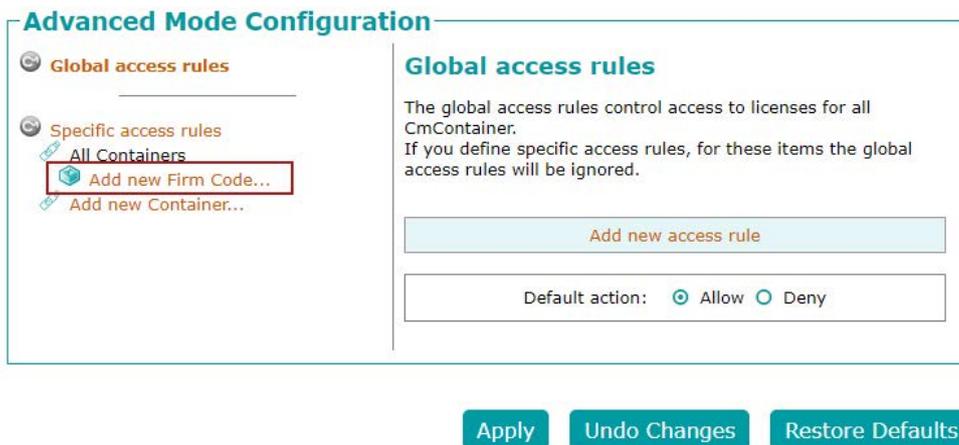
In advanced mode, access to available licenses for multiple license clients can be managed centrally. This enables selected licenses to be used by multiple clients simultaneously.

Note



For example, enabling individual licenses for multiple clients is used for extensions to *ibaAnalyzer*.

To do this, click on “Add new Firm Code” under *Advanced Mode Configuration*



Select the entry “6000506 - iba AG” from the drop-down list.

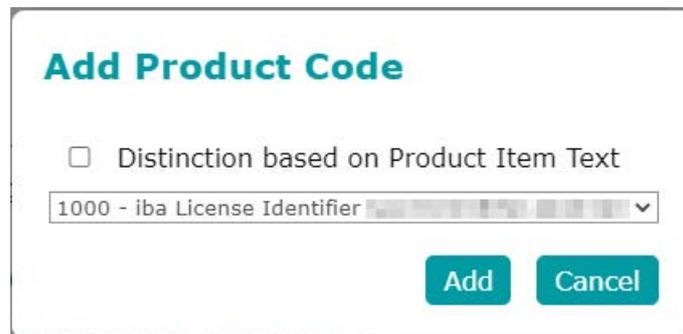


The entry is now visible under “Specific access rules” and the licenses to be shared can be added.

To do this, click on “Add new Product Code...”

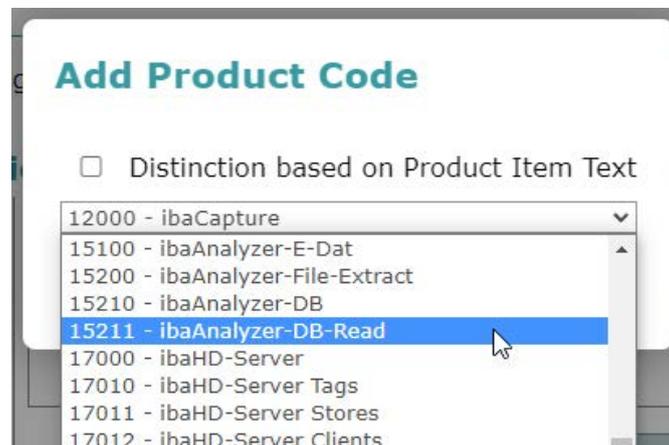


In order to display the source of the licenses and the name of the owner in the iba software, first add the entry that begins with “1000 - iba License Identifier”.



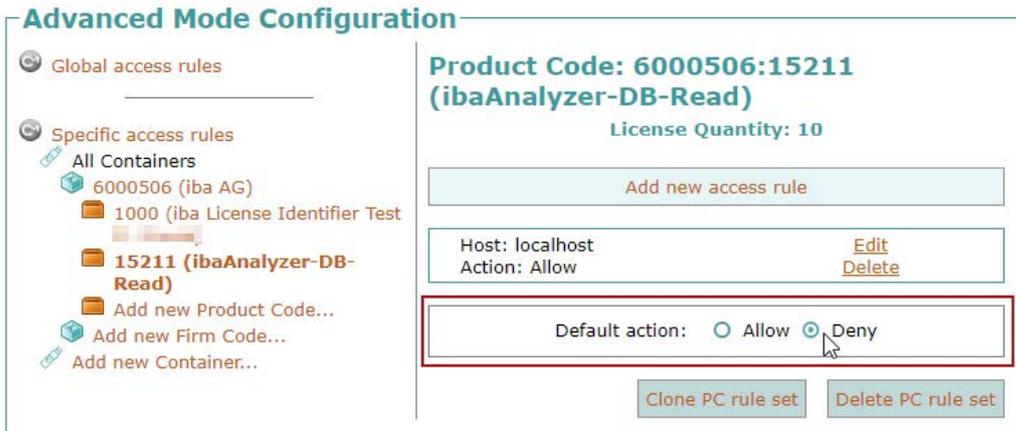
Setting up product-specific license sharing

Click on “Add new Product Code...” again and select the relevant product license from the drop-down menu. In the following example, license sharing is illustrated using the “ibaAnalyzer-DB-Read” license.

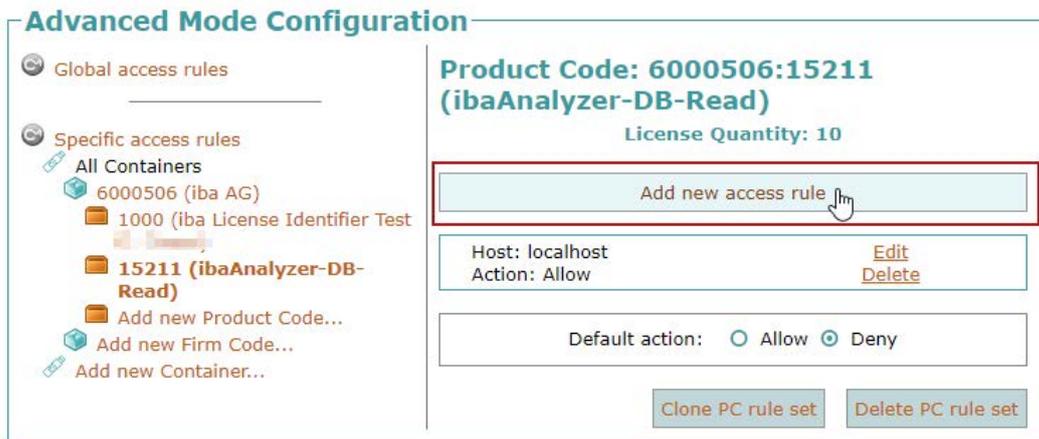


To determine the access permissions for a license, first set the relevant default action to “Allow” or “Deny”.

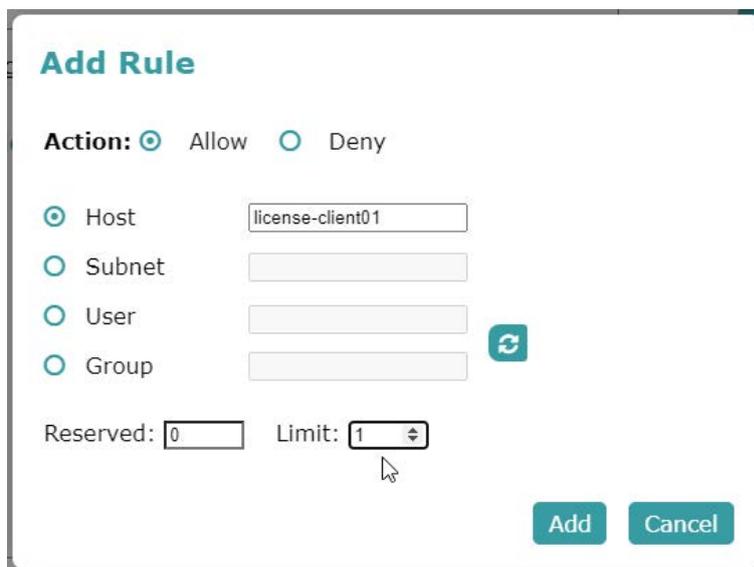
Default action “Deny”:



If you select the “Deny” option as the default action, no client can initially access this product license and the access permissions are only defined selectively later in the process. To do this, click on “Add new access rule”.



In the subsequent dialog box, enable “Allow” as the action to specify the access for defined clients based on the rules. In the example shown, a total of 10 product licenses are available, but the maximum number of licenses for the client “lizenz-client01” is to be limited to “1”.



The following parameters can be defined:

Action

Allow: Access to the license is allowed

Deny: Access to the license is denied

Host

Host name or IP address of the system to which the rule relates

Subnet

The permission can be assigned not just to an individual system but also to an entire subnet (e.g. in the format 192.168.123.0/24).

User

If the users are logged into the systems via Active Directory™, the permission can be linked to the user account.

Group

If users are logged into the systems via Active Directory™, the permission can be linked to the user group.

Note



The “Refresh” button enables all known Active Directory™ users and groups to be retrieved. They are then available in a drop-down list.

The available licenses for the individual entries can be further subdivided:

Reserved

A number of licenses that is to be reserved for the host/subnet/user/group, so that the license cannot be used by other clients.

Limit

The maximum number of licenses that the host/subnet/user/group is permitted to use.

Default action “Allow”:

Advanced Mode Configuration

Global access rules

Specific access rules

- All Containers
 - 6000506 (Iba AG)
 - 1000 (Iba License Identifier Test)
 - 15211 (ibaAnalyzer-DB-Read)**
 - Add new Product Code...
 - Add new Firm Code...
 - Add new Container...

Product Code: 6000506:15211
(ibaAnalyzer-DB-Read)

License Quantity: 10

Add new access rule

Default action: Allow Deny

Clone PC rule set Delete PC rule set

If you select the “Allow” option as the default action, you initially allow all clients access to the product license so that specific clients can be selectively excluded later in the process. To do this, click on “Add new access rule” and enable “Deny” as the action in the subsequent dialog box to explicitly cancel access for a client based on the rules.

Add Rule

Action: Allow Deny

Host

Subnet

User

Group

Note



Multiple rules can be defined for each product code, e.g. for multiple PCs, subnets, users, or groups.

After completing the configuration settings, click on <Apply> to save all changes.

6.3.2 License management on a system with multiple containers

Rules for access permissions can not only be enabled for individual licenses via the network, but also specified for entire containers.

If a system is to be used as the license server for multiple systems, multiple containers can also be set up on the license server and enabled for access by individual license clients. This option is also available for soft licenses.

Setting up multiple soft licenses on a system

The default activation mechanism only allows setting up one soft license on each system. To create multiple soft licenses on a system, you require a license template, see chapter [↗ File-based setup of a soft license, page 20](#)

Once downloaded, a license template can also be imported into the CodeMeter Control Center multiple times. Each import creates a new soft license.

Sharing licenses with multiple systems

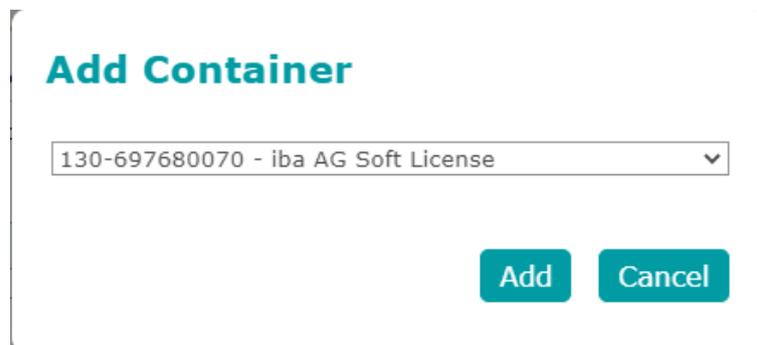
If a system is to be used as a license server for multiple systems (license clients), a separate container should be set up for each license client in the CodeMeter Control Center on the license server. It is irrelevant whether the individual containers are USB dongles or soft licenses.

Using the permissions in “Advanced” mode, each available container on the license server can be configured for access by a license client.

To do this, click on “Add new Container...” under *Advanced Mode Configuration*.



Select the relevant container from the drop-down list.



The entry is now visible under “Specific access rules”.

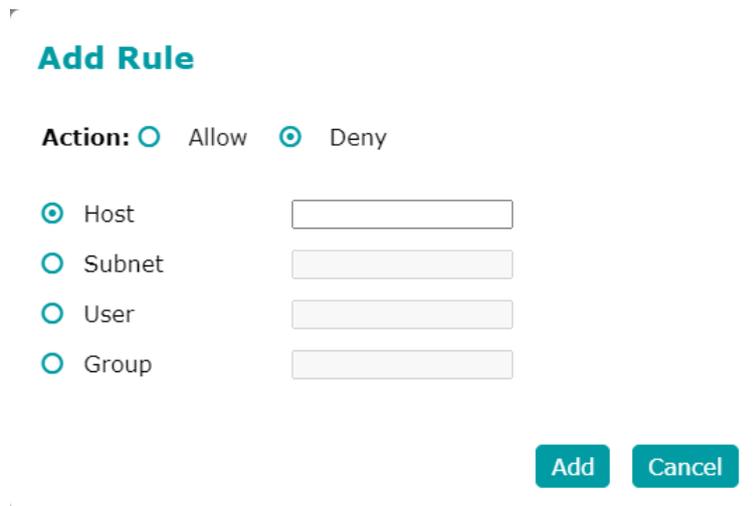
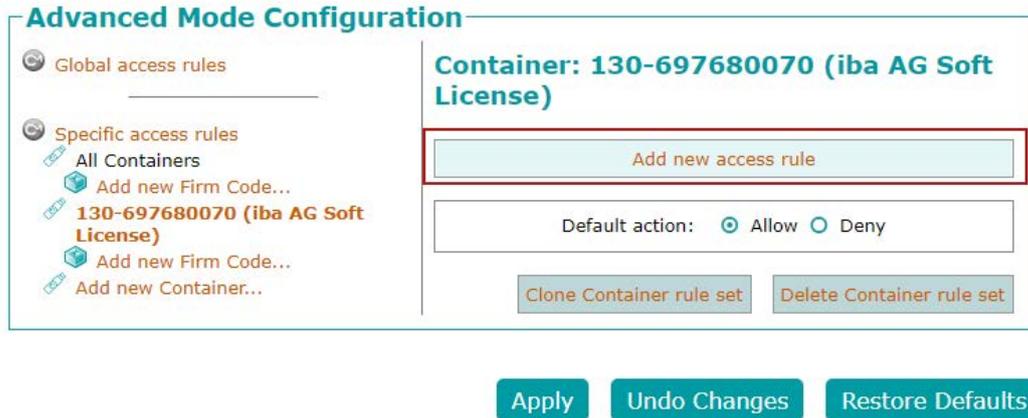


Setting up container specific license sharing

To specify which license client can access the licenses in the container added, select the relevant container in the list and define the corresponding default action. See also ↗ *Enabling individual licenses for multiple clients*, page 39.

If you select the “Deny” option as the default action, no client can initially access the selected container and the access permissions are only defined later in the process. To do this, click on “Add new access rule” under *Advanced Mode Configuration*. In the subsequent dialog box, enable “Allow” as the action to selectively allow access for defined clients based on the rules.

If you select the “Allow” option as the default action, you initially allow all clients access to the licenses so that specific clients can be selectively excluded later in the process. To do this, click on “Add new access rule” under *Advanced Mode Configuration*. In the subsequent dialog box, enable “Deny” as the action to explicitly revoke access based on the rules.



The following parameters can be defined:

Action

Allow: Access to the license is allowed

Deny: Access to the license is denied

Host

Host name or IP address of the system to which the rule relates

Subnet

The permission can be assigned not just to an individual system but also to an entire subnet (e.g. in the format 192.168.123.0/24).

User

If the users are logged into the systems via Active Directory™, the permission can be linked to the user account.

Group

If users are logged into the systems via Active Directory™, the permission can be linked to the user groups.

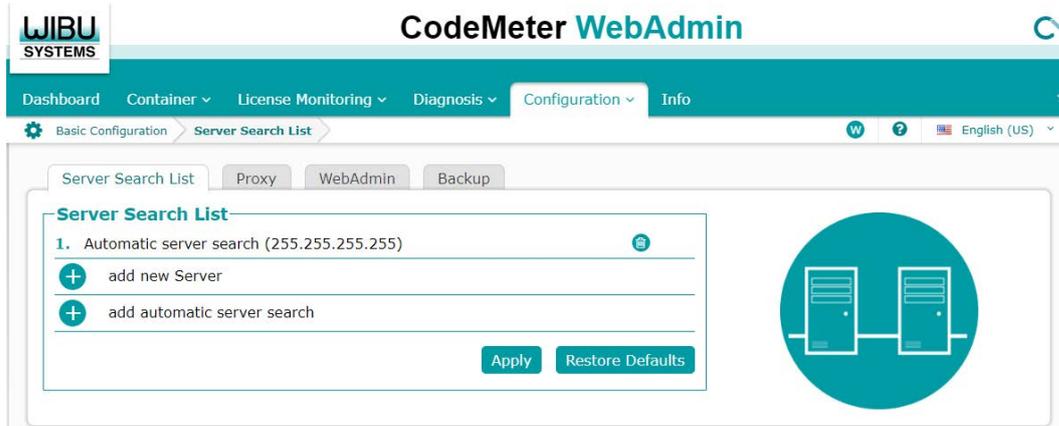
Note

The “Refresh” button enables all known Active Directory™ users and groups to be retrieved. They are then available in a drop-down list.

After completing the configuration settings, click on <Apply> to save all changes.

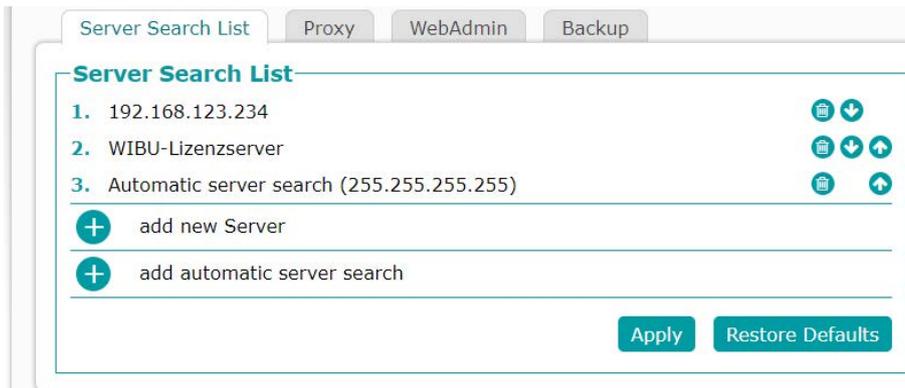
6.4 Network client configuration

To enable access to licenses that are shared on the network, open CodeMeter WebAdmin. In *Configuration - Basic - Server Search List* you can specify which PCs should be searched for shared licenses.



By default, the *Automatic server search* function is enabled. Via this setting, all license servers in the local network will be found.

If you want to use specific licenses from certain PCs, you can create new entries in the server search list via the "add new Server" option.



The individual servers can be specified by IP address or host name.

If there are multiple entries in the server search list, arrow icons   appear on the right-hand side which can be used to adjust the search order.

To apply the server search list as displayed, the configuration must be enabled by clicking <Apply>.

Entries that are no longer needed can be removed from the list using the icons  in the corresponding lines.

7 Support and contact

Support

Phone: +49 911 97282-14
Fax: +49 911 97282-33
Email: support@iba-ag.com

Note



If you need support for software products, please state the number of the license container. For hardware products, please have the serial number of the device ready.

Contact

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Koenigswarterstrasse 44
90762 Fuerth
Germany

Phone: +49 911 97282-0
Fax: +49 911 97282-33
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Postbox 1828
D-90708 Fuerth, Germany

Delivery address

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90762 Fuerth, Germany

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For contact data of your regional iba office or representative please refer to our web site

www.iba-ag.com.