

# Installation / license activation manual

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## Introduction

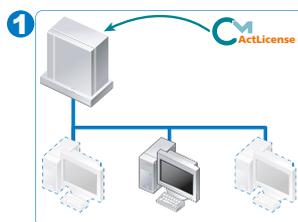
In version 6.0 we have changed our *plus* systems over to a new licensing procedure. As an update customer, you will have to adapt to a slightly new manner of installation, but all in all this new procedure offers numerous advantages:

- You no longer require a dongle for a *single user license*, a USB port is freed up. A single-user license can also be managed via your company server and therefore be used alternately on different computers.
- If you would prefer to protect the license by means of a dongle, you have the option of requesting a so-called *CmStick* for the USB port. A black, red or green dongle already available for use with previous versions cannot be used for version 6.0.
- A *site license* (e.g. for a school) now only has to be activated once on the server. Entering the key code multiple times, once on each computer, is no longer necessary.
- As the license is tied to the server of the school/company, it is protected more efficiently from theft.
- When making a follow-up order or ordering replacement deliveries (post-processors, simulators, multi-expansions,...) you do not have to re-install, but simply enter a new *ticket number* to unlock the expansion.

More options or "the trouble with choosing"? Please first use the diagrams below to decide which type of installation and/or licensing come into consideration for your purposes.

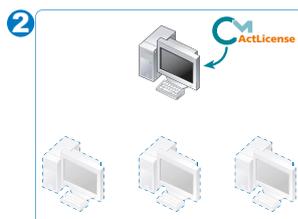
The installation manual then guides you through the required steps for each option.

## 1 Use / license managing of the *plus* software



### **Single-user license, available in a central location on a server**

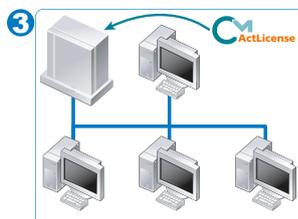
This is the ideal solution for companies in which the license is to be used alternately on one or another computer.



### **Single-user license, only available on one computer**

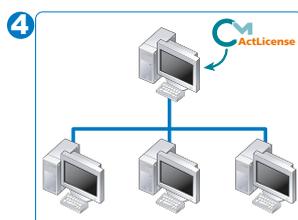
This is the standard solution when the license is only used by one person. It is especially suitable for notebooks sometimes used without a server connection.

If the *single-user license* is to be used on different computers not in a network with each other, you will have to use the optional *CmStick* (USB dongle).



### **Site license, available in a central location on a server**

This is the ideal solution for schools/institutes of education. The server is always running and the software can be used in different class rooms and offices.



### **Site license, available in a central location on a computer in a peer-to-peer network**

This is an alternative for 3, if there is only one class room and there is no connection to the server of the school/company.

## 2 Installation of CNC*plus*



Welcome to CNC*plus*, our software for the support of efficient programming (CNC*plus* PRODUCTION) or learning to use (CNC*plus* TRAINING) the **HAAS** control system.

This installation manual is addressed to all users wishing to install CNC*plus* in version 6.0 or higher.

### 2.1 Prior to the installation

#### 2.1.1 System prerequisites

Prior to installing the *plus* software ensure that your computer fulfils the following minimum system requirements:

- Commercial PC e.g. Intel Pentium® IV or better, with a minimum of 2 GHz
- Microsoft Windows® XP/Vista/7/8/Server 2003 operating system
- Screen resolution min. 1024x768
- OpenGL - compatible 3D graphics card, e.g. GeForce series 7/8/9 (128 MB)
- Main memory:
 

Microsoft Windows® XP/Server 2003	512 MB
Microsoft Windows® Vista/7/8	1 GB
- approx. 2 GB free hard drive memory per technology for system data
- PC keyboard and mouse, DVD-ROM drive
- Microsoft DirectX® , version 9 or better, and OpenGL 1.1.2 or better
- If necessary, sound card and speakers
- If necessary, serial interface or USB port for data transmission



**NOTE:**

Prior to using CNC*plus* ensure that the **latest** graphics card driver is installed. For this purpose, please contact the manufacturer of your graphics card.

#### 2.1.2 File back-up

When updating from a previous version, we recommend backing up the current files of the user data on a data storage device.

#### 2.1.3 Update compared to a new installation

Once the set-up assistant has been started, you have to decide whether you want to update your existing version or carry out a completely new installation.

During the update, the assistant will replace existing system files. However, existing settings and user data are retained.

## 2.2 Starting the installation program

Depending on whether you received the software as online delivery via e-mail or on a data storage medium (DVD), proceed as follows:

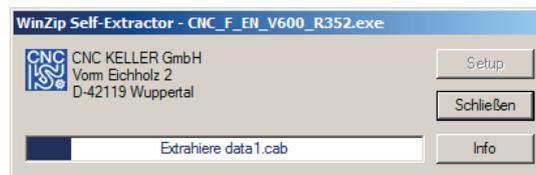
### 2.2.1 Online delivery

You will receive an e-mail containing a download link.

After you click on the link, your browser window will open up to display a message. Select the option for saving the file.

After successfully downloading this file, open the saved file.

Now the installation program is extracted:



Afterwards, the installation program begins automatically.

### 2.2.2 Delivery on a data storage medium (DVD)

Insert the installation DVD of CNC*plus* into the drive.

Carry out one of the following steps:

#### 2.2.2.1 Microsoft Windows® XP/Server 2003

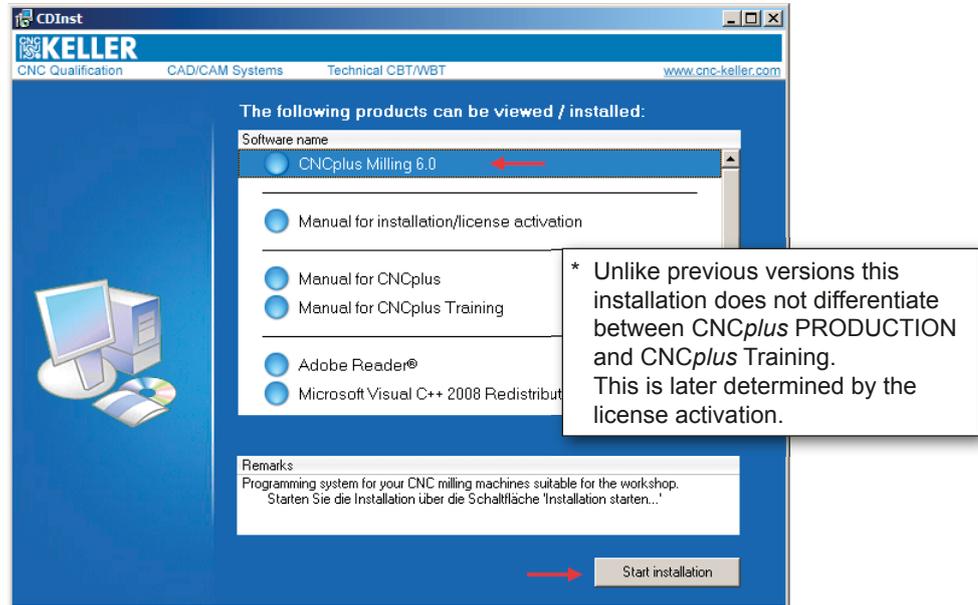
- If the DVD is started automatically, start the corresponding installation program using the buttons shown on the display.
- If the DVD is not started automatically, click *Start* and select *Run* from the menu. Click on *Browse* and select the DVD symbol under *Search in*.
- Then double-click the file  *CDinst.exe* and click *OK* in the dialogue field *Run*.

#### 2.2.2.3 Microsoft Windows® Vista/7/8

- Once the DVD has been started automatically, click on the *Auto-play* dialogue, then *Open folder to display files*.
- Right-click on the  *CDinst.exe* file and select the option *Run as administrator*.
- The following warning may appear:  
"Do you want to allow the following program to make changes to this computer?". Please click on *Yes* in this field.

## 2.3 Installation of the *plus* software

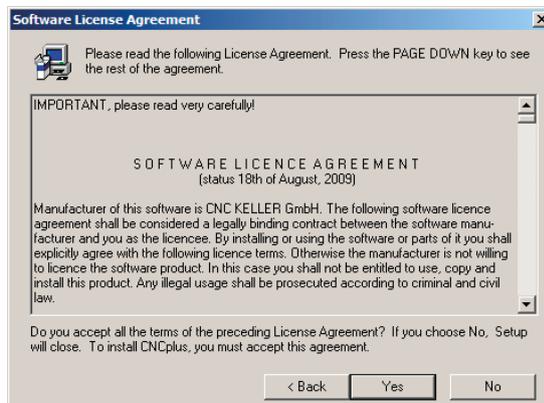
Now select the CNC*plus* software\* to be installed and double-click or use the *Start installation* button to start the installation:



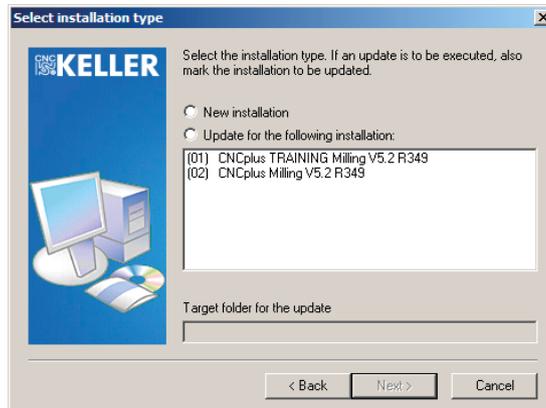
Once the CNC*plus* software installation has been started, click on *Next* in the welcome dialogue field.



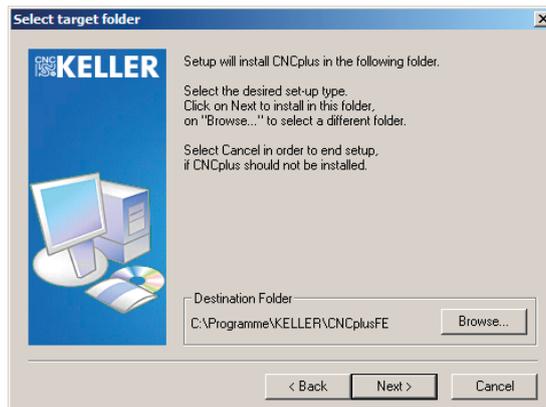
Read the license agreement in the following dialogue and click on *Yes*.



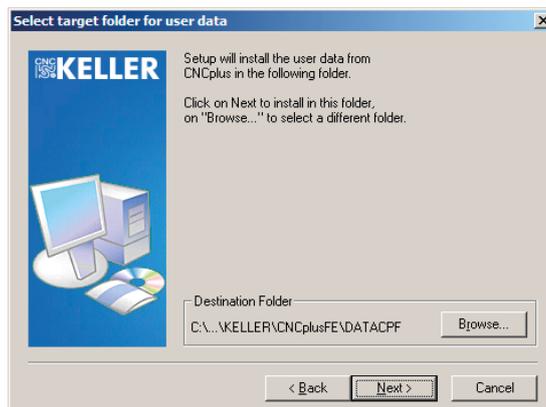
If earlier versions of the CNCplus software are already installed on your computer, a dialogue will now be displayed in which you can select either *New installation* or *Update* of an existing installation. If you select one of the versions found, the pre-set installation path for a new installation (see "2.4.2 Installation folders" on page 9) will be replaced with the installation path of this installed software once you click *Next*.



The following dialogue will display the installation path for this software. If you wish to change the folder location for the installation, click on *Browse* and enter the desired folder (see "2.4.2 Installation folders" on page 9).

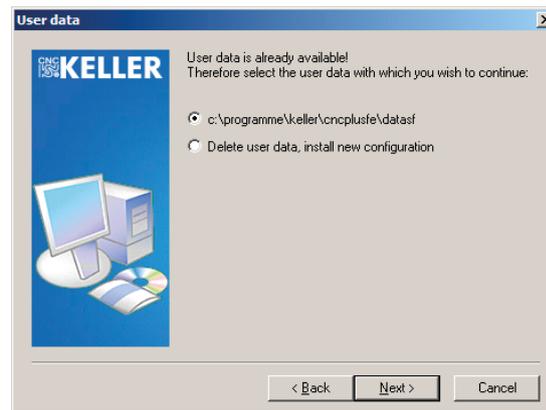


A subsequent dialogue with the option for changing the user data path appears. To do so, click on *Browse* and specify the desired folder (see "2.4.2 Installation folders" on page 9).

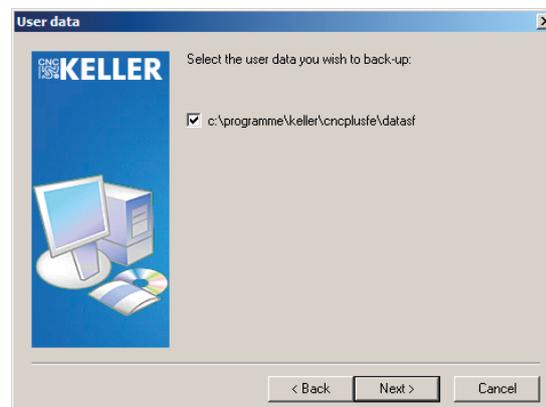


The program now checks whether the path refers to existing user data (e.g. for an update of a previously installed version). If no previous user data exists, follow the instructions given on the screen to conclude installation of the CNCplus software.

Otherwise you have the option of deciding whether you want to continue using the existing user data or reset them to their delivery condition:



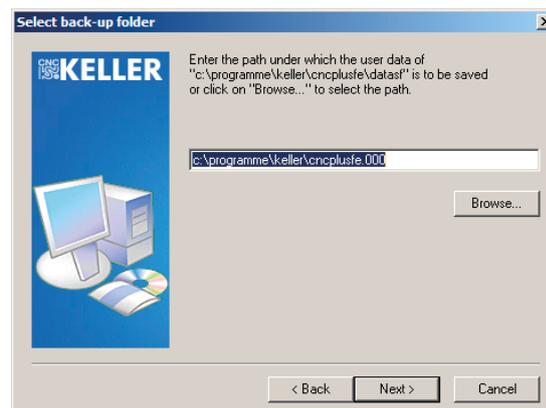
Regardless of your selection, a query dialogue will then appear to ask whether the existing user data is to be saved:



If you do not wish to save the data, deactivate the saving option.

Click on *Next*.

If you selected the saving option, a path for saving the data will be displayed in a subsequent dialogue. Click *Browse* to change this path.



Apply the path by clicking *Next*.

Follow the instructions given on the screen to conclude installation of the CNC*plus* software.

## 2.4 Additional information

Hereafter the term *plus* software always refers to the respective system SYM*plus* Turning/Milling or CAM*plus* Turning/Milling.

### 2.4.1 Network installation

#### Basics of network installation

Network installation can be used for various purposes.

1. Any number of users with their own user data are to have access to common system data. This is especially interesting for schools.
2. A user is to be able to access his own user data from various work places.
3. Always select network installation as installation type under Microsoft Windows® Vista/7/8, even if you wish to install the program on the local computer only.

To perform a network installation with CNC*plus* software, you have to be completely familiar with the basic administration steps in your network.

Prior to starting network installation ensure that for the entire period of network installation you have write access for both the system data folder and the user data. If you wish to protect the system data from unauthorised access, select a folder for the installation of the system data in your network, to which the corresponding users are allowed read-only access.

You can distribute the system and user data to any desired computer within your network.

#### Use of different user data with identical system data

To make user data available for various users, please proceed as follows:

1. Copy the user data from the 'Home-Directory' on the server that you used during installation and into the corresponding 'Home-Directories' of the individual users.
2. All 'Home-Directories' on the server must have the same drive letter for each user!
3. Copy the start menu folder "KELLER systems" of the installation PC including the entries contained in it into the start menu folder of the user PC.
4. Log onto the desired PCs as a user with the same user rights and access possibilities as those of the later users.
5. Finally ensure that the users have "read only permission" for the folder with the system data.

#### Use of your own user data in several work places

In order to use the user data in several workplaces, copy the start menu folder "KELLER systems" of the installation PC including the entries contained in it into the start menu folder of the user PC.



**NOTE:**

Do not use the CNC*plus* Software on several PCs at a time, if the same user data is accessed!

Always end the CNC*plus* Software on one PC, before you start it on a different PC!

Knowing that simultaneous access to your user data by several users can render this data unusable, we have provided an appropriate protection mechanism:

1. Use an editor to open the `vorein.ini` file in the folder of the user data.
2. Under [General] enter a new line with the contents `Locking=1`.

Once this protection mechanism is activated, a file `user.loc` is created in the user data directory with every start of a corresponding *plus* software.

This prevents another user from accessing this data, because the *plus* software of this user will automatically be ended again when it is started.

When the software is ended in the normal manner, this file is automatically removed.  
If the software is ended improperly, you may have to remove this file manually.

## 2.4.2 Installation folders

### System data / user data

For better orientation, refer to the following list of suggested folder names for the *plus* Software (SYM*plus* / CAM*plus*).

As a standard, the user data is saved in a folder named 'DATAxx'.

<b>Software</b>		<b>Folder for system data</b>	<b>Folder for user data</b>
CNC <i>plus</i> software Turning	=	CNCplusDE	DATASD
CNC <i>plus</i> software Milling	=	CNCplusFE	DATASF



**NOTE:**

Ensure that the users have reading and writing permission for the folder with the user data.

### Manual change of the installation folders

The CNC*plus* software stores the path to the user data in the *dir.dat* file stored in the system data folder.

If you rename or move the user data folder, adapt the *dir.dat* file accordingly.

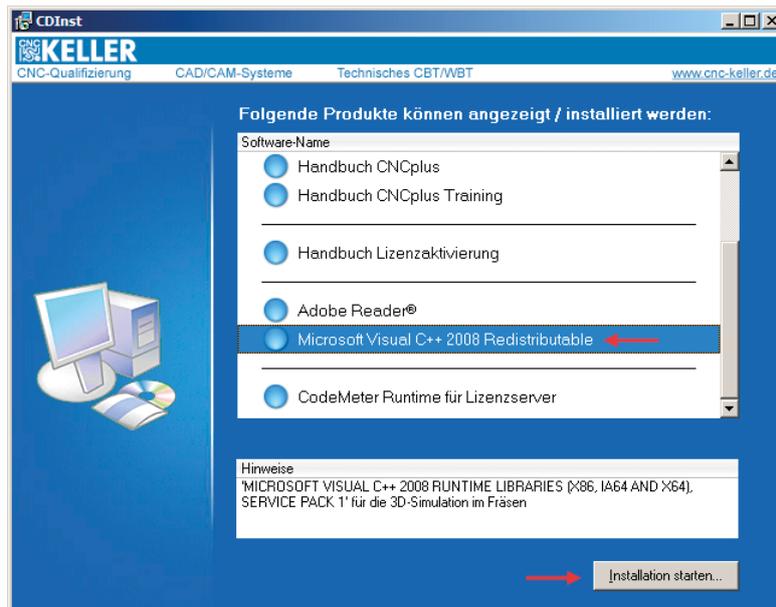
## 2.5 Subsequent installation in case of errors in the 3D simulation

If the 3D simulation cannot be started or Windows error messages appear when it is started, some Microsoft runtime libraries are probably missing.

These libraries can be installed subsequently by means of the installation program.

To do so, open the *CDInst.exe* file in the KELLER installation package (see "2.2 Starting the installation program" on page 4).

Select *Microsoft Visual C++ 2008 Redistributable* and either double-click or use the *Start installation* button to start the installation:



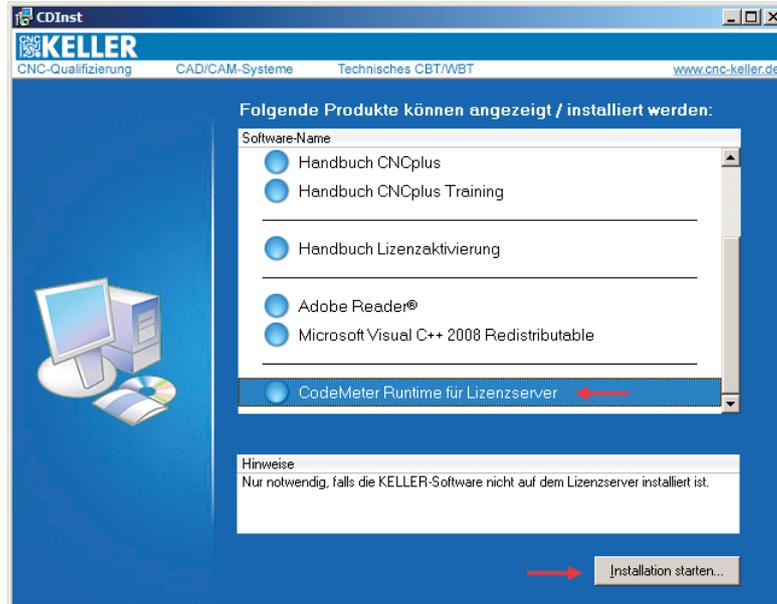


## 2.6 Installation of CodeMeter Runtime

If a computer/server on which the *plus* software is not installed is to be used as *license server* for making the license available, *CodeMeter Runtime* has to be installed on this computer/server.

To do so, open the *CDInst.exe* file in the KELLER installation package (see "2.2 Starting the installation program" on page 4).

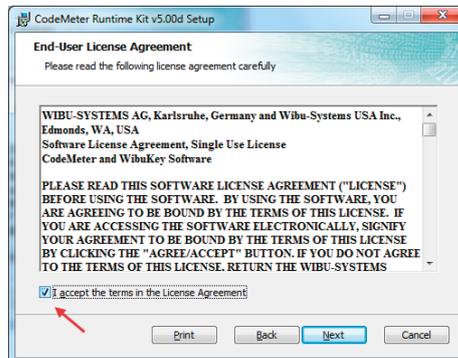
Select the final option *CodeMeter Runtime for license server* and either double-click or use the *Start Installation* button to start the installation:



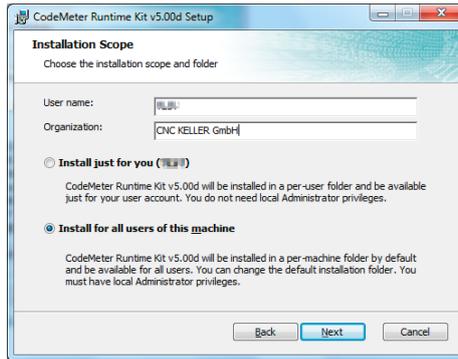
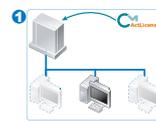
This starts the installation routine of *CodeMeter Runtime*:



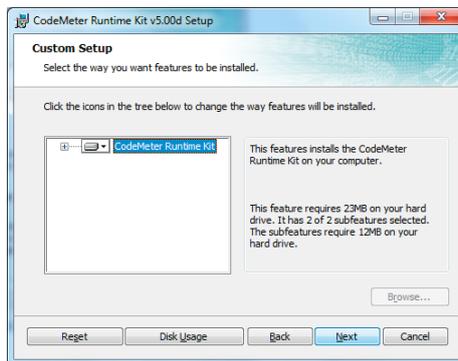
Click on *Next*.



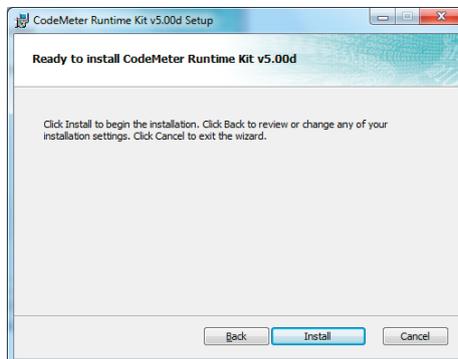
Accept the license terms and click *Next*.



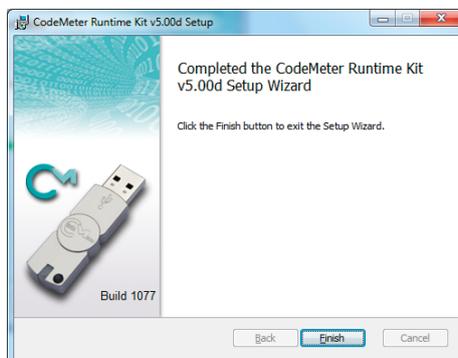
User and Organisation can usually be taken over.  
 Select the option *Install for all users on this computer*.  
 Then click on *Next*.



In the following dialogue, special settings need not be made.  
 Click on *Next*.



Now click *Install* to carry out the installation.  
 After completing the installation, a final dialogue will appear:



Click *Complete*.  
 CodeMeter Runtime is now installed.

## 3 License activation

A license protection prevents the *plus* software from being used without authorisation. Prior to the first use of the software, the license must be activated.

### 3.1 Pre-requisites

- The *plus* software and *CodeMeter Runtime* have been installed on the computer/server as described in the previous chapter.
- You have received a *ticket number* from us for activating the license. You will find this number in the notification e-mail in case of an online delivery or in the license certificate in case of delivery on a data storage medium (optional).
- The computer/server must be connected to the internet at least for the duration of the license activation procedure.

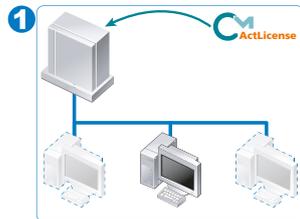


#### ATTENTION

If you cannot establish an internet connection on this computer/server, please contact our service, by phone, +49 202 40400, or e-mail, [service@cnc-keller.de](mailto:service@cnc-keller.de). We will give you advice and further installation suggestions.

### 3.2 Procedure

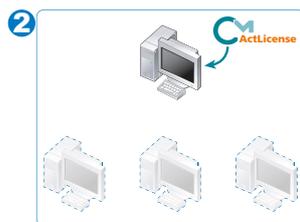
The procedure for license activation differs depending on which of the four cases described in the chapter "Use / license managing of the *plus* software" on page 2 applies.



#### 1 **Single-user license, available in a central location on a server**

The license is activated on a network server (hereafter called *license server*).

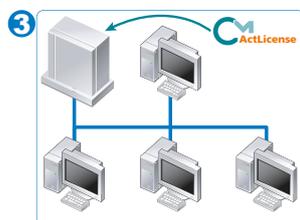
To do so, follow the instructions in the chapters "3.3 License activation on a server" on page 14 and "3.5 Activating the license server" on page 22.



#### 2 **Single-user license, only available on one computer**

The license is activated for one computer.

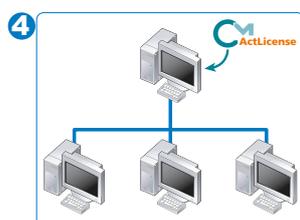
To do so, follow the instructions in the chapter "3.4 License activation on one computer" on page 18.



#### 3 **Site license, available in a central location on a server**

The license for several workplaces is activated on a network server (hereafter called *license server*).

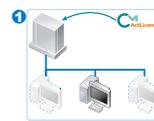
To do so, follow the instructions in the chapters "3.3 License activation on a server" on page 14 and "3.5 Activating the license server" on page 22.



#### 4 **Site license, available in a central location on a computer in a peer-to-peer network**

The license for several workplaces is activated on a computer within the network (hereafter called *license server*).

To do so, follow the instructions in the chapters "3.4 License activation on one computer" on page 18 and "3.5 Activating the license server" on page 22.



### 3.3 License activation on a server

For license activation on a server, these instructions presuppose that the *plus* software was only installed on the connected client computers.

As you have already installed *CodeMeterRuntime*, as described in "2.6 Installation of *CodeMeter Runtime*" on page 11, now start an internet browser on the server and enter the following address:

<http://activation.cnc-keller.com>

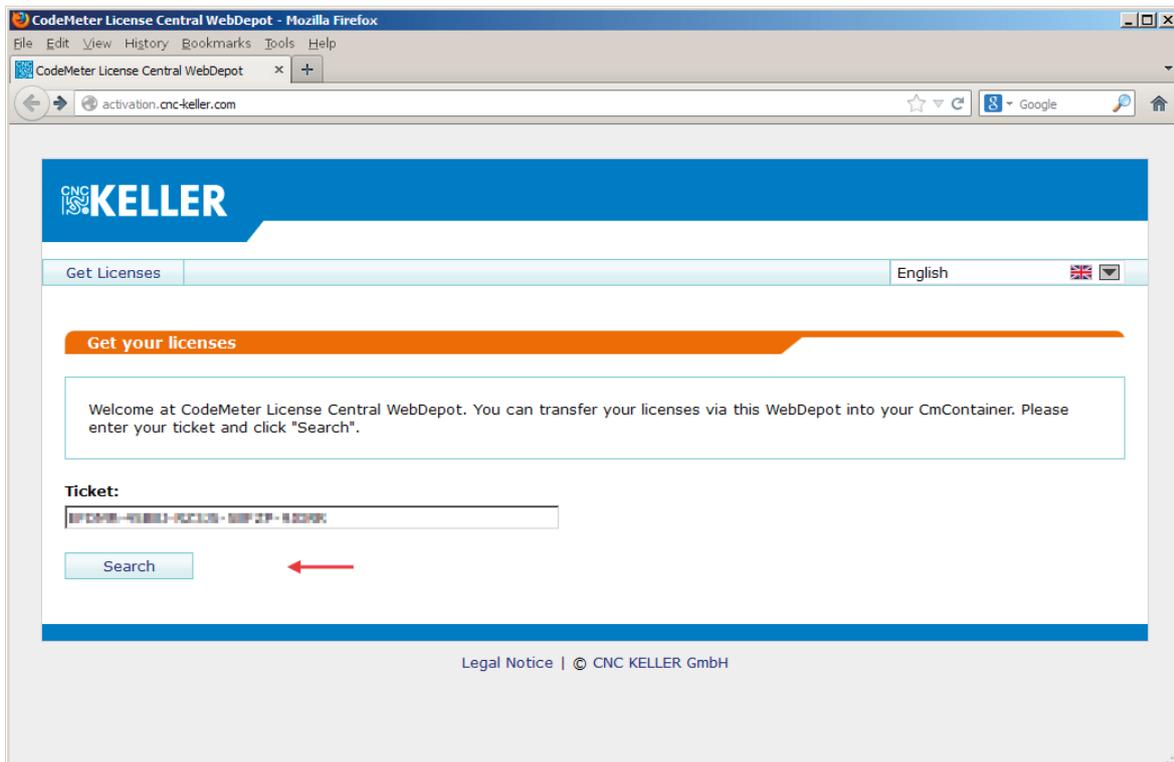
The *CodeMeter License Central WebDepot* will open. Here you can decide, to which hardware the license is to be tied. The license container is called *CmContainer*.

In general, you will tie the license to the server hardware (*CmContainer* = Server).

If you have obtained an optionally available *CmStick* (USB dongle), the license can be tied to this dongle instead (*CmContainer* = *CmStick*).

#### 3.3.1 Entering the license key

Enter the *ticket number* in the input field. You have received this number via e-mail in case of an online delivery and will find it in the enclosed license certificate in case of delivery of a data storage medium.



Then click on *Search*.



#### NOTE

Depending on the browser you are using, you may be asked whether you wish to run the application. Please confirm this query.



### 3.3.2 Selecting the license protection

As described at the beginning of this chapter, there are two types of license protection:

- License protection by means of computer hardware (**CodeMeterAct** License)
- License protection by means of *CmStick* (**CodeMeter** License, optional USB dongle)

Now a dialogue is displayed in which these two options are offered via different so-called firmcodes.

The firmcodes are allocated as follows:

- **CodeMeterAct** License = Firmcode **5000142**
- **CodeMeter** License = Firmcode **101703**



Lizenzen abholen Deutsch 

1. Wählen Sie die Lizenz(en), die Sie aktivieren wollen.  
2. Wählen Sie den lokal angeschlossenen CmContainer.  
3. Klicken Sie auf "Lizenzaktivierung".

**Ihre Lizenzen für Firmcode: 5000142 (CodeMeterAct)**

<input checked="" type="checkbox"/>	Item ID	Name	Status
<input checked="" type="checkbox"/>	352104-1	CNCplus Fräsen 6.0	Verfügbar

**Wählen Sie den CmContainer**  
CmContainer automatisch holen 

Lizenzaktivierung

---

1. Wählen Sie die Lizenz(en), die Sie aktivieren wollen.  
2. Wählen Sie den lokal angeschlossenen CmContainer.  
3. Klicken Sie auf "Lizenzaktivierung".

**Ihre Lizenzen für Firmcode: 101703 (CodeMeter)**

<input checked="" type="checkbox"/>	Item ID	Name	Status
<input checked="" type="checkbox"/>	352104-1	CNCplus Fräsen 6.0	Verfügbar

**Wählen Sie den CmContainer**  
Keinen CmContainer gefunden! 

Lizenzaktivierung



#### NOTE

Depending on which license protection or firmcode you are using, you need not consider the part of the dialogue intended for the other firmcode.

Depending on your selection, please continue reading on the next pages under:

“3.3.2.1 License protection with CodeMeterAct (without CmStick)”

or

“3.3.2.2 License protection with CodeMeter (with CmStick)”



### 3.3.2.1 License protection with *CodeMeterAct* (without *CmStick*)



**NOTE**

After this procedure the license is tied to the respective computer and cannot be transferred to a different computer hardware.

You will now be shown for which product your license is valid according to the *ticket number* you have entered.

1. Wählen Sie die Lizenz(en), die Sie aktivieren wollen.  
 2. Wählen Sie den lokal angeschlossenen CmContainer.  
 3. Klicken Sie auf "Lizenzaktivierung".

---

**Ihre Lizenzen für Firmcode: 5000142 (*CodeMeterAct*)**

<input checked="" type="checkbox"/>	Item ID	Name	Status
<input checked="" type="checkbox"/>	352104-1	CNCplus Fräsen 6.0	Verfügbar

**Wählen Sie den CmContainer**

CmContainer automatisch holen

←

In the selection field *Select the CmContainer* the content *automatically retrieve CmContainer* is displayed when the first license is activated on this computer. This setting is correct and can be applied unchanged by clicking the *License activation* button.

If you wish to activate another license on this computer (e.g. second technology), you will be offered the now available *CmContainer* in the form of a number of this type:

**Choose your CmContainer**

32767-243 (KELLER)

This setting is correct for each additional license, so apply it accordingly by clicking the *License activation* button.

To complete the process, please follow the instructions in the chapter "3.5 Activating the license server".



### 3.3.2.2 License protection with CodeMeter (with CmStick)



#### NOTE

After this procedure, the license is firmly written into the *CmStick* and not connected to computer hardware.

You will now be shown for which product your license is valid according to the *ticket number* you have entered.



By the way: The serial number of the *CmStick* can be found on the plug-in connector. Now plug the *CmStick* into a free USB port and click the Update button , so that the connected *CmStick* is offered as *CmContainer* in the form of a number of this type:

Choose your CmContainer

No CmContainer found! 



Choose your CmContainer

2-2396014 

1. Wählen Sie die Lizenz(en), die Sie aktivieren wollen.
2. Wählen Sie den lokal angeschlossenen CmContainer.
3. Klicken Sie auf "Lizenzaktivierung".

Ihre Lizenzen für Firmcode: 101703 (CodeMeter)

<input checked="" type="checkbox"/>	Item ID	Name	Status
<input checked="" type="checkbox"/>	352104-1	CNCplus Fräsen 6.0	Verfügbar

Wählen Sie den CmContainer

2-2396014 

Lizenzaktivierung 

This setting is correct and can be applied unchanged by clicking the *License activation* button.

If you wish to activate an additional license on this *CmStick* (e.g. second technology), you will be offered the now available *CmContainer* in the form of the same number:

This setting is correct for each additional license, so apply it accordingly by clicking the *License activation* button.

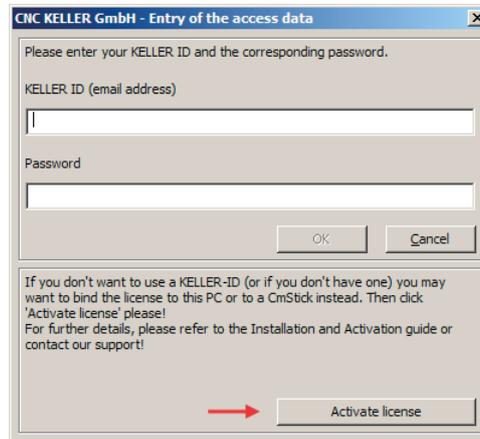
To complete the process, please follow the instructions in the chapter "3.5 Activating the license server".



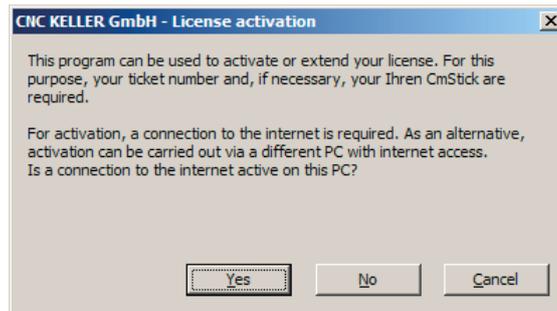
### 3.4 License activation on one computer

For license activation on one computer, the following instructions presuppose that the *plus* software was only installed on this computer. Start the *plus* software for the first time (by clicking the icon in the start menu or double-clicking the file *cpmain.exe* in the installation folder).

The following dialogue appears:



Now click on *Activate license*.



As your computer has an active internet connection, click Yes.

#### 3.4.1 Selecting the license protection

As described at the beginning of this chapter, you will now be able to select between two types of license protection:

- License protection with computer hardware (*CodeMeterAct* License)
- License protection with CmStick (*CodeMeter* License, optional USB dongle)

Now a dialogue is displayed in which you can select one of two options:

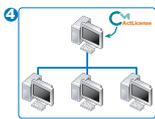


Depending on your selection, please continue reading on the next pages under:

“3.4.1.1 License protection with *CodeMeterAct* (without CmStick)”

or

“3.4.1.2 License protection with *CodeMeter* (with CmStick)”



### 3.4.1.1 License protection with *CodeMeterAct* (without *CmStick*)



#### NOTE

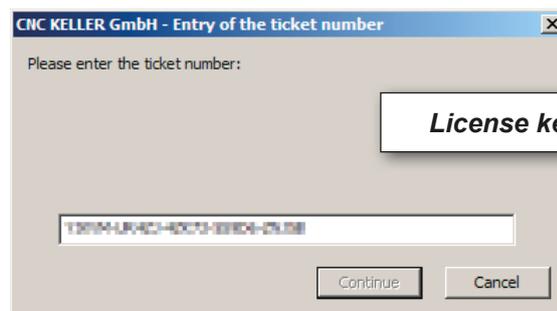
After this procedure the license is tied to the respective computer and cannot be transferred to a different computer hardware.

You will now be prompted to select the *License container*

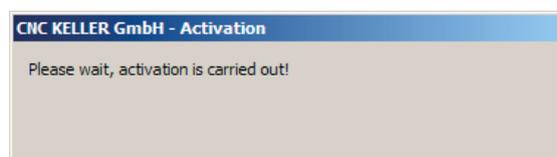


When the first license on this computer is activated, a temporary *Container number* is displayed. This setting is correct and can be applied unchanged by clicking the *Next* button.

Enter the *ticket number* in the input field. You have received this number via e-mail in case of an online delivery and will find it in the enclosed license certificate in case of delivery of a data storage medium.

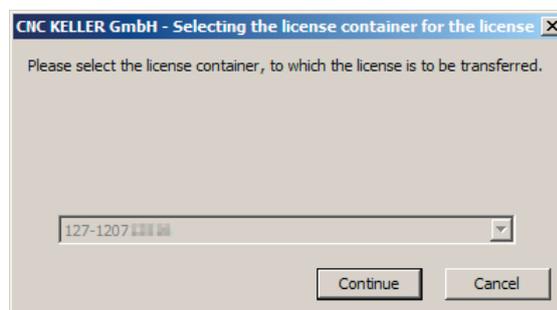


Apply the *ticket number* by clicking *Next*.



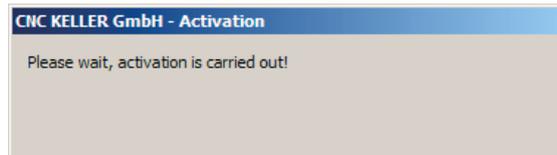
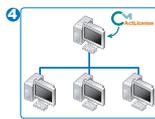
After successful activation of the license, the *plus* software starts automatically.

If you wish to activate another license on this computer (e.g. second technology), you will be offered the now available *CmContainer* in the form of a number of this type:



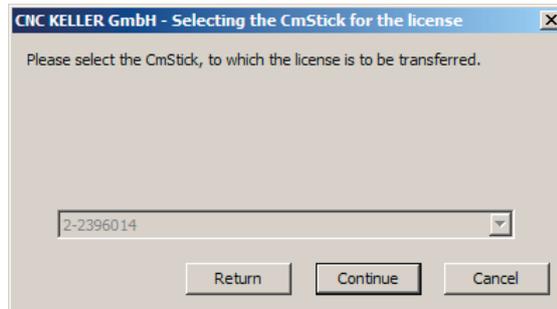
This setting is correct for each additional license, so apply it accordingly by clicking the *Next* button.



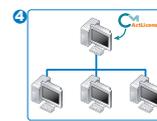
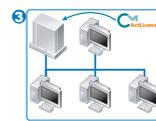
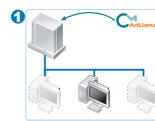


After successful activation of the license, the *plus* software starts automatically.

If you wish to activate another license on this computer (e.g. second technology) you will be offered the serial number of the connected *CmStick* again:



This setting is correct for each additional license, so apply it accordingly by clicking the *Next* button.

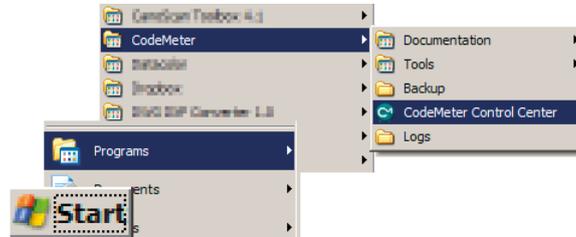


### 3.5 Activating the license server

The computer/server which is to provide the licenses as the central location within a network must be activated as *license server*.

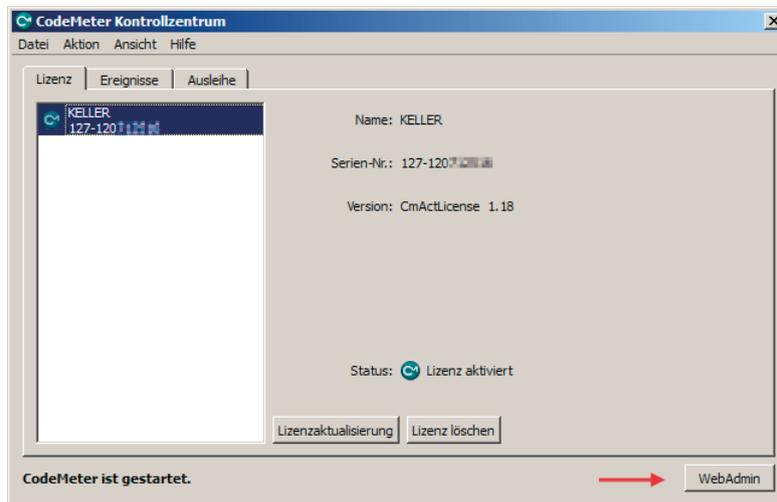
To do so, start the  *CodeMeter Control Center* via the start menu

(Prerequisite: The *plus* software and/or *CodeMeter Runtime* has been installed on this computer/server).

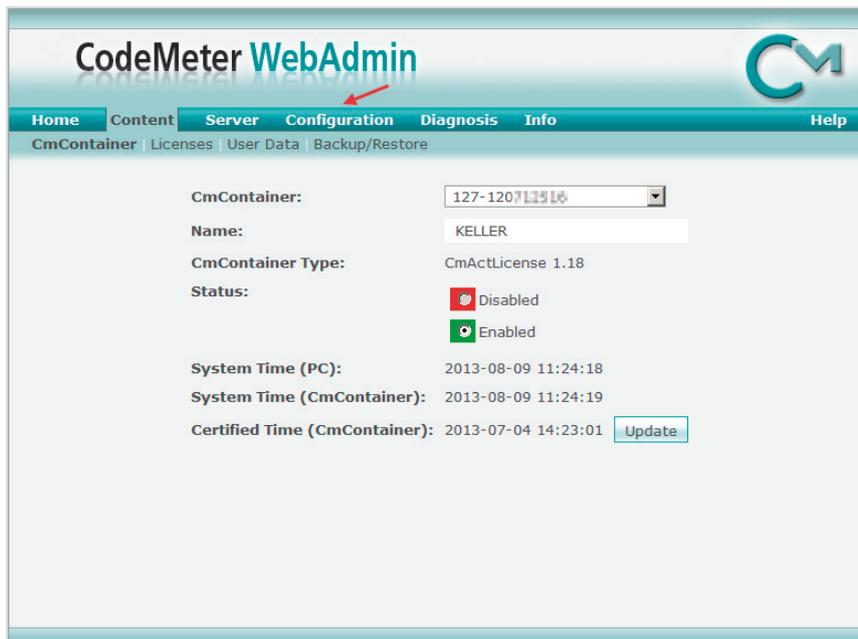


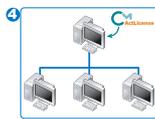
All available licenses are displayed here.

Click on *WebAdmin*:

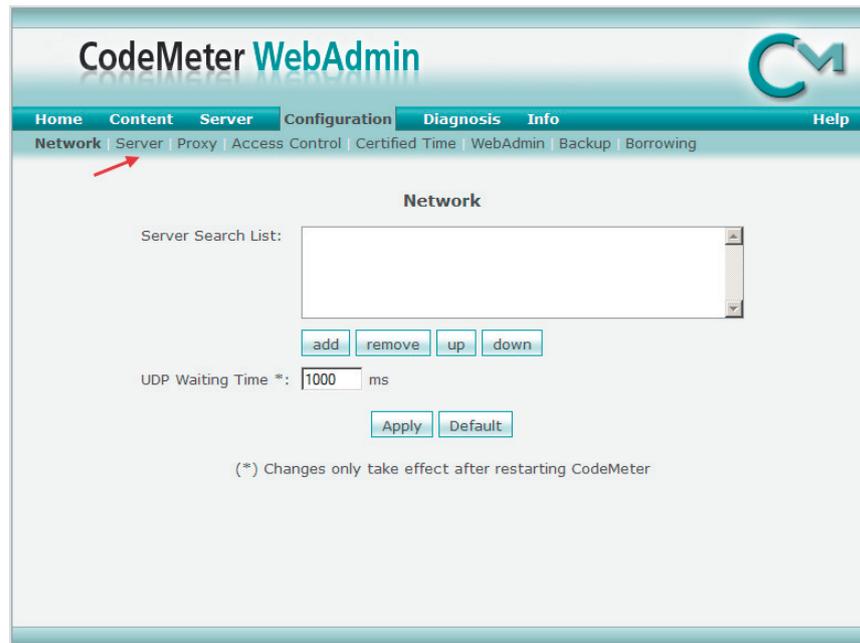


The mask for making additional settings of the *CodeMeter Control Center* is now displayed in your internet browser. Select the menu item *Settings*:

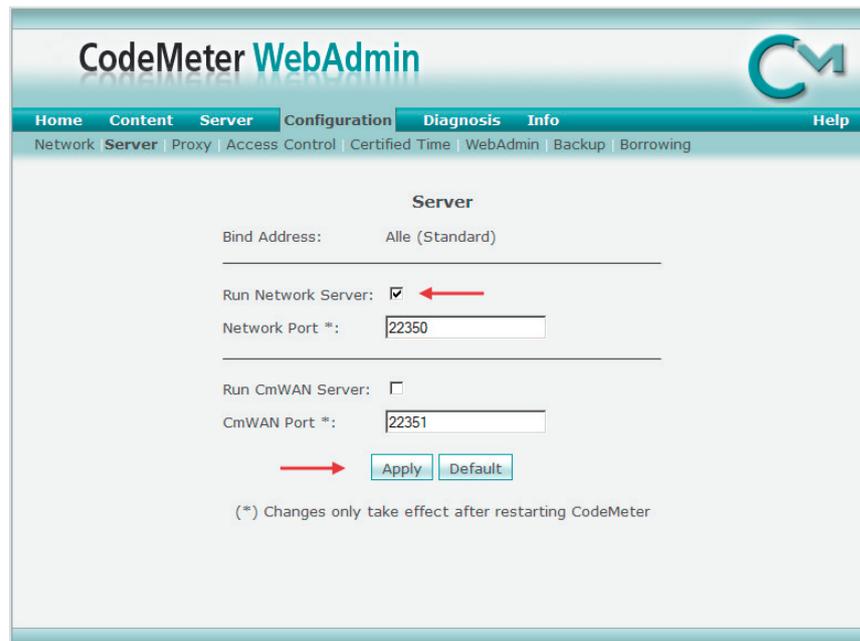




Now select the sub-menu item *Server*:



Click to activate the *Start network server* setting:



Then click *Apply* to save the settings.

The computer/server is now activated as *License server*