

# kubit Box

Installation Guide



# kubit Box 17.0

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## Contact

FARO 3D Software GmbH	Tel.: +49/351/418880 0	Fax: +49 351 418880-29
Tiergartenstraße 79	Internet: <a href="http://www.faro-3d-software.com">www.faro-3d-software.com</a>	Email: <a href="mailto:info@faro-3d-software.com">info@faro-3d-software.com</a>
01219 Dresden		
Germany		

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# What's important for us

Dear FARO users,

We thank you for the trust that you have placed in us and wish you lots of luck and pleasure when using your kubit Box product.

Please don't be afraid when you have questions or problems to take advantage of our support team. Your questions and suggestions on the whole family of FARO products are very important to us and are always welcome. The products that we offer are significantly influenced by the ideas and creativity of the users.

With this in mind, we are looking forward to working together with you with our product kubit Box.

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# 1 What is the kubit Box

The kubit Box is a collection of all of the kubit AutoCAD applications in a single common installation process. The kubit Box contains all of the available products of TachyCAD, DistToPlan, PhoToPlan, hylasFM, MonuMap and PointSense.

You as a user will probably ask why we have decided to bring together all of these products into one box.

The individual kubit Box products are, in terms of their functionality, specifically tailored to satisfy the needs of the various groups of users, however, the products share, to a certain extent, common functions and resources. Many of our users work every day with more than one FARO AutoCAD application. The kubit box allows us, as software developers, to achieve the best possible links between the various products, without you as user having to battle with compatibility or configuration problems. This allows you as the user to work much more comfortably with several products in parallel, since you have only one installation to look after and you can, at any time, switch between various products. Also the testing of products that you have not yet purchased is made significantly simpler. There is no new installation of any software necessary, but just simply select the kubit Box product and request a trial licence.

kubit Box also simplifies working in a network with multiple licences. You can now precisely specify for each workstation, which licence can be used and with which priority.

We have tried, with the kubit Box, for you as the user, to organise your work, in a much more comfortable and simpler fashion. At the same time it allows us, as software developers, now and in the future to better and more effectively align the individual products with each other.

## 2 Installation and Start

### 2.1 System requirements

The FARO programs DistToPlan, TachyCAD, PhoToPlan, hylasFM, MonuMap and PointSense are all part of the kubit Box and can be embedded as AutoCAD applications in the following versions of AutoCAD:

	AutoCAD 2013 - 2017	AutoCAD LT 2013 - 2017
DistToPlan	✓	✓
TachyCAD	✓	✓
PhoToPlan	✓	✓
hylasFM	✓	✓
MonuMap	✓	✓
PointSense	✓	⊘

The FARO software VirtuSurv is a stand-alone **Windows program**, which can work together with - along with other Windows programs - AutoCAD (LT) 2013-2017 or BricsCAD V13 (32 bit) -V16 (32 bit and 64 bit).

The kubit Box supports the following **operating systems**:

Windows XP from SP3 / Vista / 7 / 8 / 8.1 / 10 (64 bit)

Please take note that FARO cannot offer any support for combinations of an AutoCAD version and an operating system which are **not** supported by Autodesk.

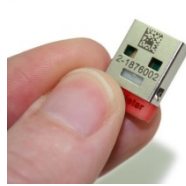
### 2.2 Installing kubit Box

The installation of the kubit Box is comprised of several steps that must be carried out in sequence. Administrator privileges are required for the installation.

**Note:** Please ensure that the hardware protection (CodeMeter dongle) that you have already received is not yet plugged in, as it can lead to problems when trying to identify the hardware.



CodeMeter USB stick



CodeMeter mini USB-stick



CodeMeter ExpressCard

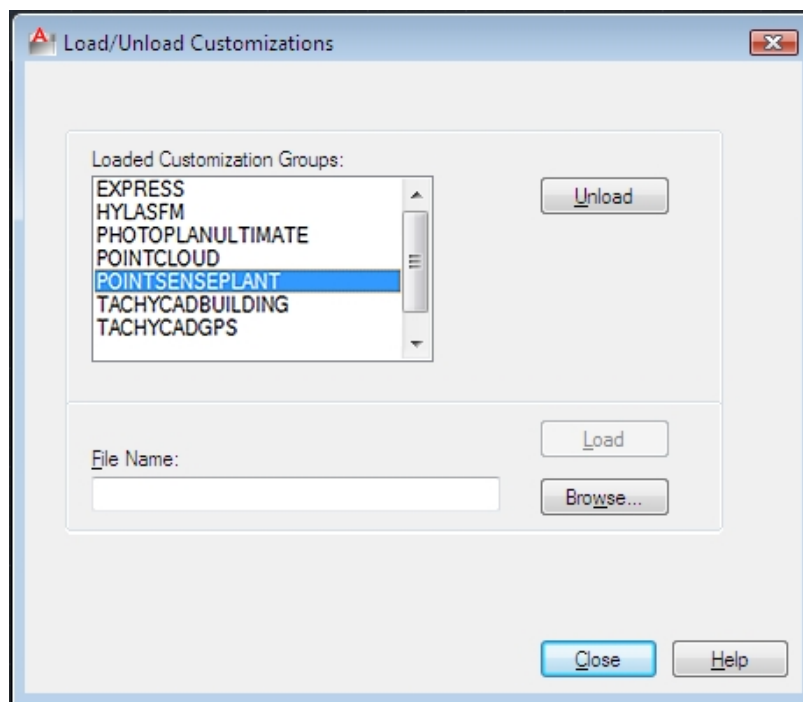
Examples of the CodeMeter dongle

## 2.2.1 Removal of a kubit product that is older than version 15

In the case where you already have previous versions of kubit applications installed on your computer, first remove them from your AutoCAD (LT) environment.

- Remove the appropriate product menus (e.g. POINTSENSEPLANT) by entering the command "menuload" in the command <sup>1</sup> The following dialogue box appears.

Load/unload Customisations → Loaded Customisation Groups: [Product name] →  
Unload → Close



- Remove the directory entry of the old kubit versions (e.g. PointSense) from the search path for the support files. Enter the command "config" in the comm<sup>2</sup> The following window is

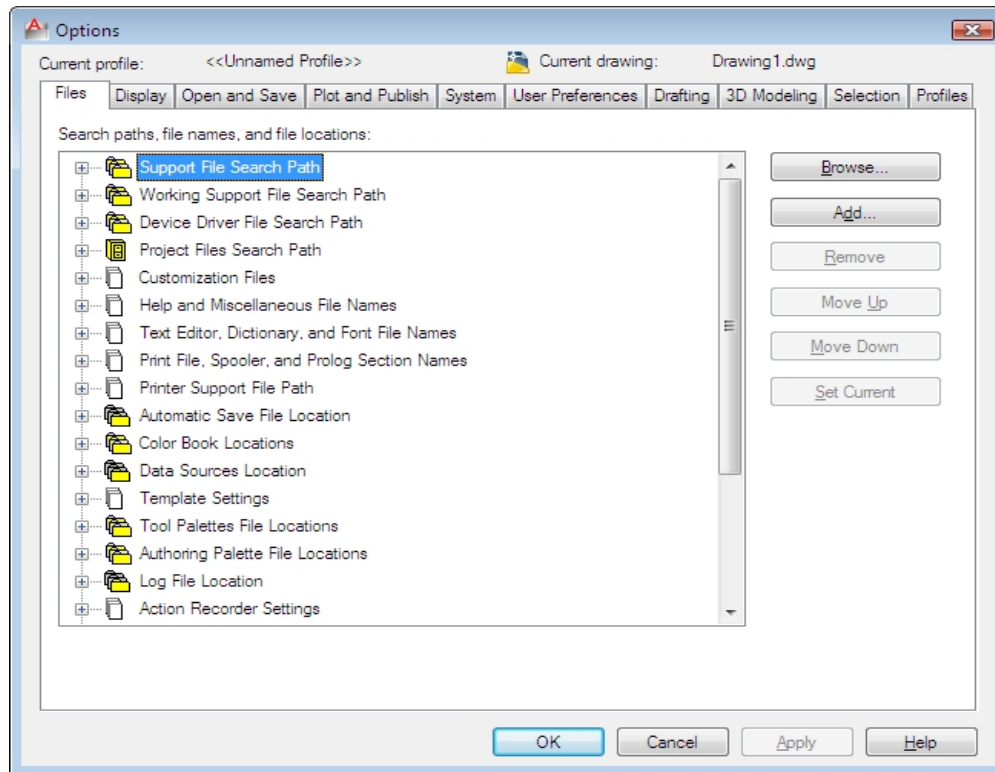
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<sup>1</sup>line.

<sup>2</sup>and line.

displayed. Remove the support file path.

Options → Files → Support File Search Path: Path for the Product → Remove → OK



- Close AutoCAD.
- **Only when using AutoCAD LT:** Run the file LTUNINST.EXE, to be found in the folder of your previous kubit product installation. Administrator privileges are required to do this.
- Start AutoCAD again. After the new start all products are no longer embedded.

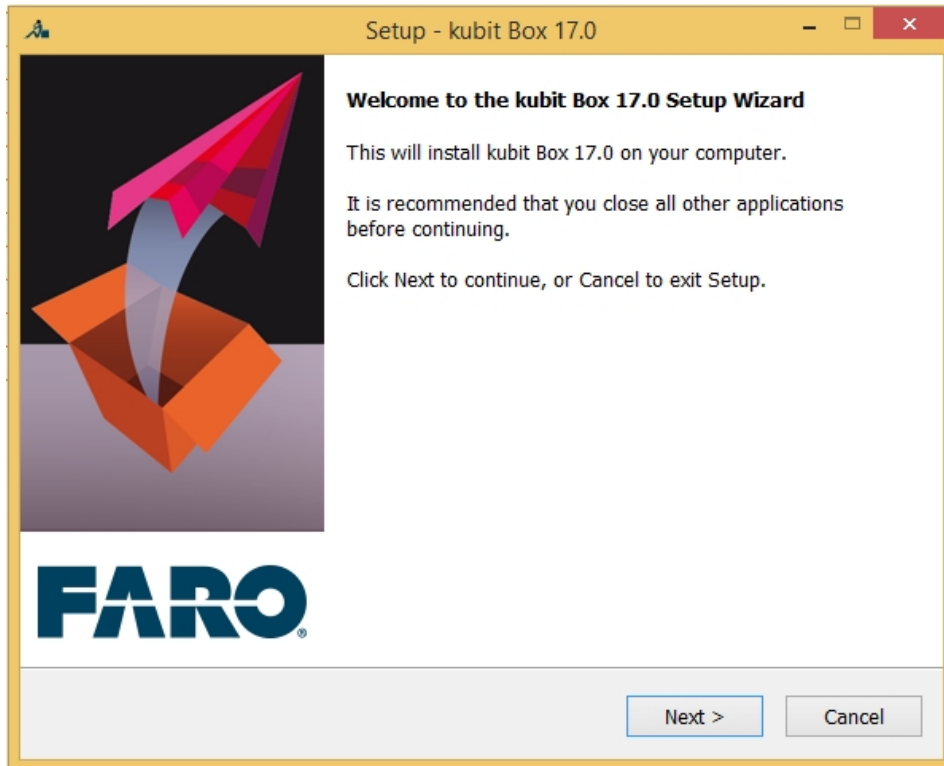
## 2.2.2 Installation

The current setup files of the kubit Box products can also be downloaded from the FARO internet site:

[www.faro-3d-software.com](http://www.faro-3d-software.com)

Run the setup file by double clicking it and then follow the instructions of the installation wizard. The selection of other programs in the kubit Box can always be done at a later point in time with the → **Product Manager**.





During the installation process you will be requested to select the AutoCAD version for which you want to install the kubit Box.

Should you want to install several versions **of a** kubit Box, you must create a separate folder for each version. Thereby you can use different versions (e.g. for AutoCAD 2010 and 2014) in parallel. The setup wizard helps you to do this.

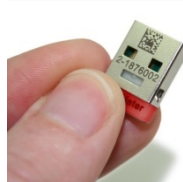
If you want to use several FARO AutoCAD applications in parallel during a single AutoCAD session you can, after installing the kubit Box and using the Product Manager, very easily embed them or remove them from AutoCAD.

## 2.3 Installing the dongle

The FARO 3D software products are protected against unlawful use by a dongle. This so called CodeMeter is available as a USB stick, PC card, SD card and ExpressCard.



CodeMeter USB stick



CodeMeter mini USB-stick



CodeMeter ExpressCard

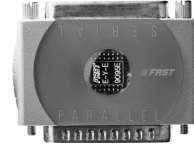
Some of the previous versions of FARO products were supplied with a dongle of the type **Aladdin** Hardlock. This was available as a USB stick, PC card or as a plug for the parallel port. They can, of course, still be used with the kubit Box products.



Hardlock USB stick



Hardlock PC card



Hardlock parallel port

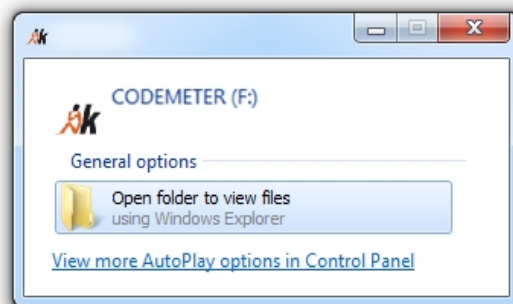
The driver software for the dongle is automatically installed during the setup.

By the delivery of the software the dongle contains no activated licence file! Please download your current licence file from the following web page:

<http://license.faro-3d-software.com/>

You can find the serial number on your dongle.

Now connect the dongle to the appropriate port for the type of dongle being used. Thereafter the message window "AutoPlay" might be displayed:



Close the window without selecting any option or select "Do not execute any action".

When starting AutoCAD with an embedded FARO application, the dongle will be automatically recognised and you can immediately start using the commands of the application.

With a perpetual licence the dongle will function without having to do anything else. With a time limited licence the dongle will need an internet connection, at regular intervals, in order to verify its internal time clock. If this does not happen within a specified time frame (e.g. no direct internet access, which will happen regularly when on site) the licence will no longer be recognised until the time clock has been updated. The update of the verified time is independent of the imported licence information.

With a time limited licence please ensure before starting work with our software that the verified time clock of the dongle is up to date. Follow the instructions in section **2.6.4** .

The licence status that is saved on the dongle can be accessed using the application command  
→ **Licence management** ....

To manage the licences saved on the dongle or for setting up a network dongle please read the sections **2.4** and **2.6** .

## 2.4 Setting up a Network Licence

### 2.4.1 CodeMeter Network Licence

You can also use your CodeMeter-Dongle over a network. The dongle should be plugged into any computer in the local network (it is advantageous to do this on a server that is always available) and kubit Box is installed on any of the other computers in the network. This has the advantage that the program can be used on several computers in the local network, without having to unplug the dongle from one computer and plug it in on another. But then only so many employees can use the software at the same time, as there are activated licences on the dongle. For the commissioning of the software the following steps are necessary:

#### On the server computer

Log on with administrator privileges. Then download the "CodeMeterRuntimeXXX.exe" from the FARO 3D Software web page under Support → Support files and run the file. There is one for 64 bit and one for 32 bit systems. Now the "CodeMeter Control Center" will be installed.

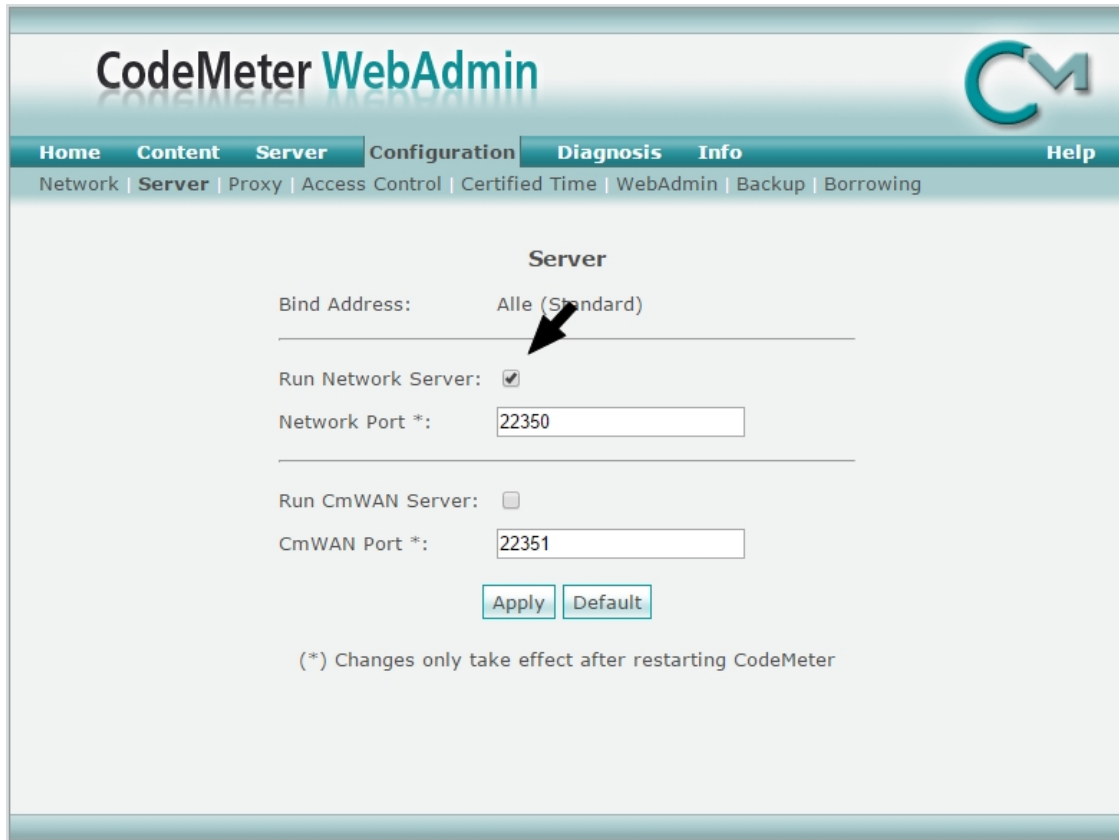
Now plug in the dongle on the server computer.

Start the CodeMeter-Control Center. The quickest way is by clicking the symbol in the Windows task bar:



A dialogue box opens with status information about the dongle. Click lower right on **WebAdmin**, to configure the dongle.

Your internet browser opens and displays the configuration page "CodeMeter WebAdmin". Then click on "Configuration" – "Server".



**CodeMeter WebAdmin**

Home Content **Server** Configuration Diagnosis Info Help

Network | **Server** | Proxy | Access Control | Certified Time | WebAdmin | Backup | Borrowing

**Server**

Bind Address: Alle (Standard)

Run Network Server: ☒

Network Port \*: 22350

Run CmWAN Server: ☐

CmWAN Port \*: 22351

Apply Default

(\*) Changes only take effect after restarting CodeMeter

Place a tick in the box adjacent to "Run Network Server".

All other settings here can by default be left as they are. Click on **[Apply]** and close WebAdmin by exiting your browser.

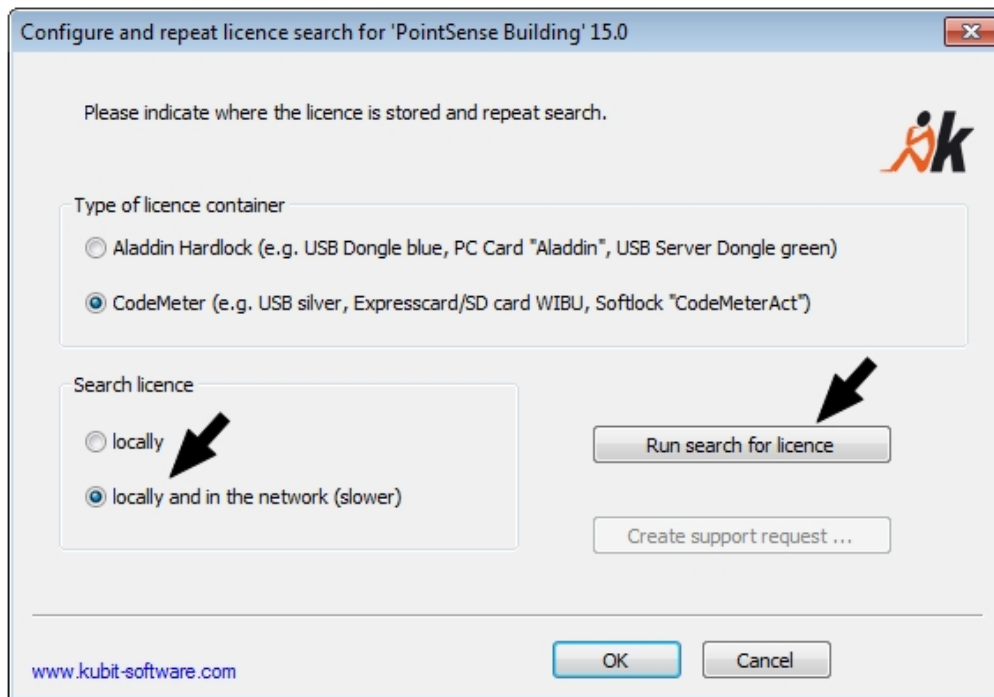
#### Note:

Please ensure that the port used on this computer is not blocked by a firewall. If need be you must deactivate your firewall or you must release this port in the firewall settings.

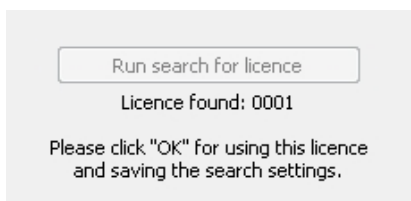
If you want to use a Linux computer as the server you can download the relevant software packet (CodeMeterRuntime Packet) from [www.wibu.de-de](http://www.wibu.de-de).

#### On the client computer (the workstation)

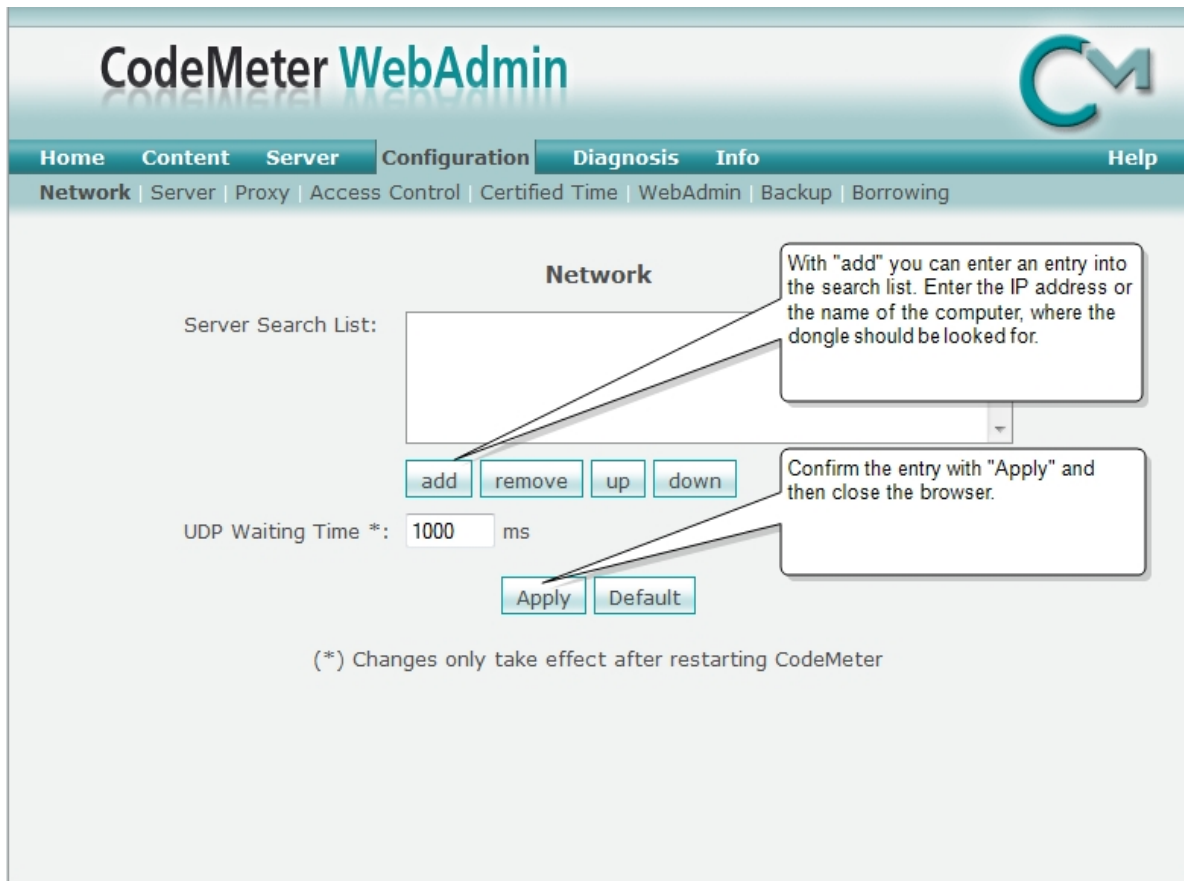
Start AutoCAD and configure kubit Box products in accordance with the instructions in section **2.5** . The settings for the licence search are to be found on the second page of the → **Product Manager**.



There you need to select the option "locally and on the network (slower)" and then click on **[Run search for licence]**. The network dongle should now be recognised.



If the server has not yet been found, you can enter in WebAdmin on the client computer, either the IP address or the computer name which should be used when searching for the computer. The CodeMeter Control centre has already been installed during the setup of the kubit Boxof .



On the client computer also it must be ensured that no firewall hinders the connection to the server. To test the connection enter the following into your browser <http://servername:22350>. You should now be able to see the WebAdmin page of the server. If this succeeds then your kubit Box product should also work correctly.

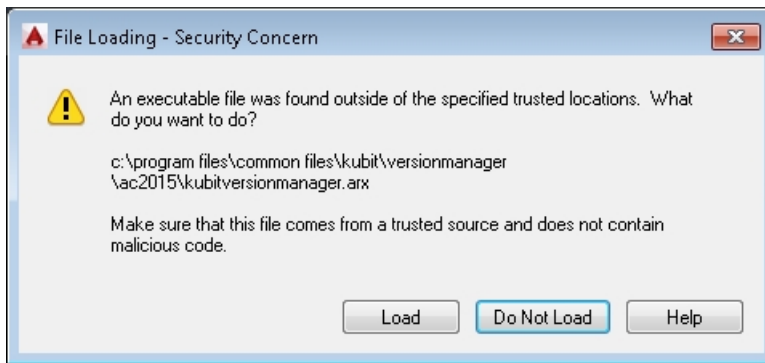
## 2.4.2 Hardlock network licence

It is also possible to have a network licence with a hardlock type dongle. For that purpose you need a special network dongle that is only available as a USB stick. To setup such a network licence please first download the Aladdin Hardlock network server kit from the FARO 3D Software web page, under Support → Support files. In the kit there are several PDF guides that will help you with the setup.

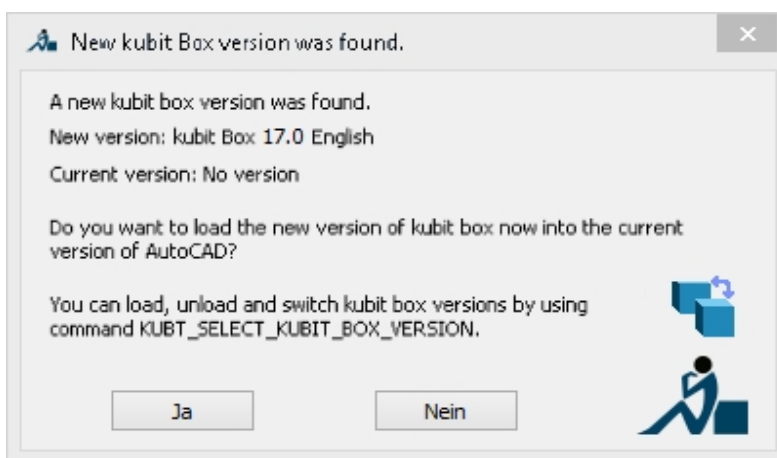
## 2.5 Setting up the kubit Box in AutoCAD and AutoCAD LT

### 2.5.1 Product configuration

After a successful installation you can start AutoCAD (LT). Should the following security message be displayed you can simply confirm it by clicking **[Load]**.



Should a message be displayed saying that a new kubit Box version has been found and asks if you want to load it, Confirm the message with [Yes]. Confirm you adaptation with **[YES]**.

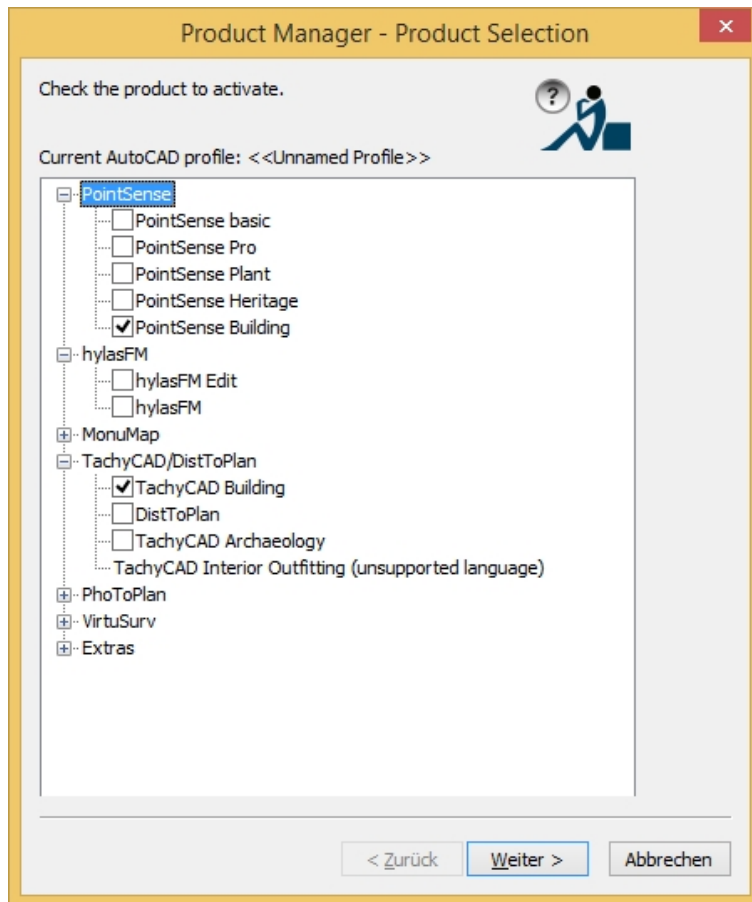


Should you want to use several versions of kubit Box, you can at any time by using the → **Version Manager**, switch back and forth between the various installed versions.

Should the message not be automatically displayed then please start the → **Version Manager** from the AutoCAD (LT) command line (command: KUBT\_SELECT\_KUBIT\_BOX\_VERSION).

Your kubit Box product has now been successfully embedded in AutoCAD (LT) and is ready to be used. The associated menus will be automatically loaded. These can be seen in the automatically inserted tool bars or on the ribbon or the corresponding entry in the menu bar.

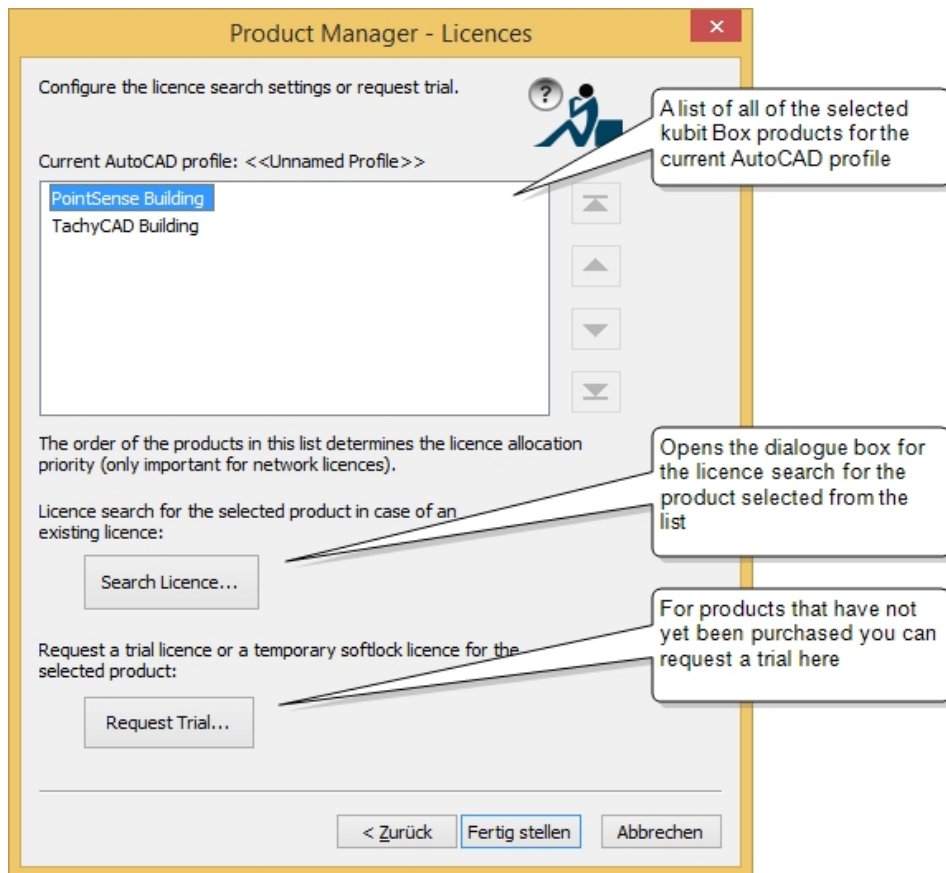
You can embed further kubit Box products into your AutoCAD (LT) by using the → **Product Manager**. After starting the Product Managers the following dialogue box is displayed:



Select the products that you have purchased from the list and confirm the selection with **[Next >]**.

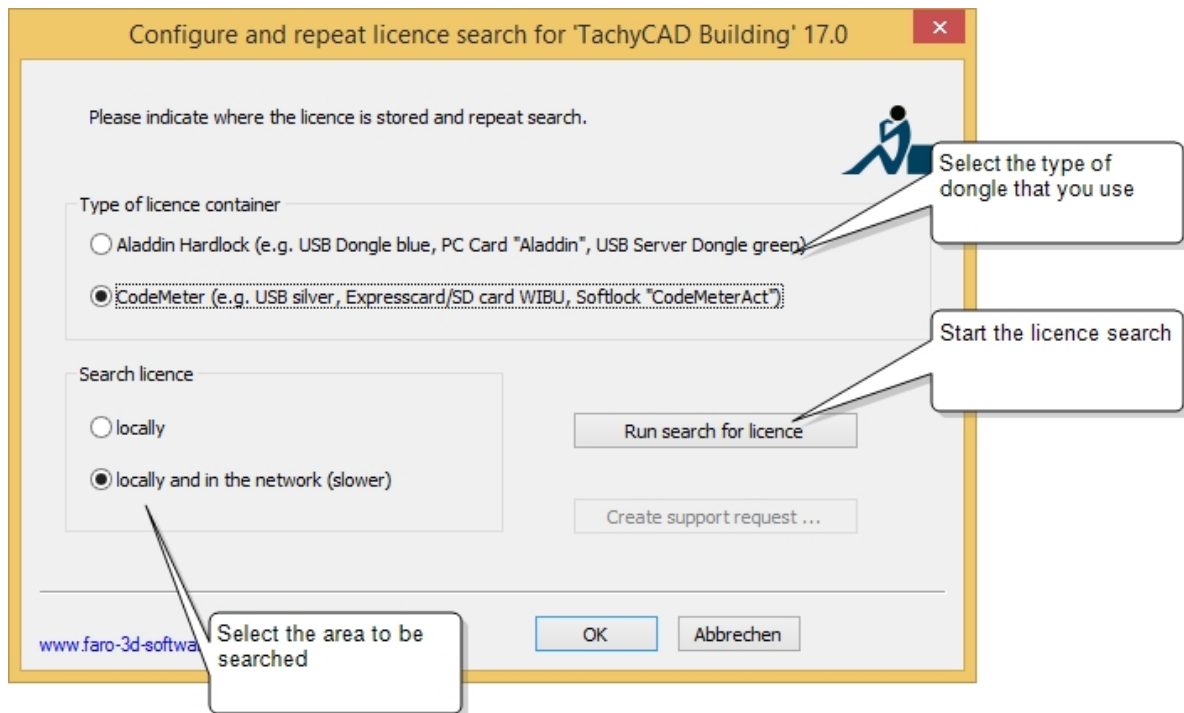
On the second page of the → **Product Manager** you can configure the licence search for each of the selected kubit Box products or you can request a test licence for products that you have not yet purchased.





In the pick list you will find all of the kubit Box products that you have selected for the current AutoCAD profile. The order of the products in the list can be changed by using the buttons to the right of the list. The order of the list that has been ordered in such a way will be taken into account by functions that are present in many products. In cases of doubt the software gives precedence to the higher prioritized product. e.g. when there are several existing licences it will be the one from the top placed product that will be used. A detailed description of this behaviour is to be found in the Command Reference to the → **Product Manager**.

By clicking the button **[Search for Licence...]** you can configure the licence search for the currently selected product in the list. The following dialogue box appears:



After selecting the kubit Box products that you have purchased in the → **Product Manager**, the associated menus will be loaded. These can be seen in the automatically inserted tool bars or on the ribbon or the corresponding entry in the menu bar. In the case where the menu has not been automatically loaded enter one of the following commands in the AutoCAD (LT) command line:

PhoToPlan	PPMENU
TachyCAD	TCMENU
DistToPlan	DPMENU
hylaFM	HYMENU
MonuMap	MMMENU
PointSense	PCMENU

After that the tool bar and menu entry or the tab on the ribbon of the application is displayed.

Should it so one time happen that no product from the kubit Box is loaded, you can always start the → **Product Manager** from the command line of AutoCAD (LT) (command: KUBT\_CONFIG\_PRODUCTS), so long as a current version of kubit Box is loaded (see also → **Version Manager**).

## 2.5.2 Ribbon or classic menu

Since version 2009 AutoCAD has offered the user a user interface with the ribbon. In all previous versions the user had a main menu bar with the points File, Modify, View, etc. which has been replaced in current versions with other structured tabs and panels (a so called ribbon). In some cases it may be meaningful to additionally display the classic main menu bar, so that specific AutoCAD commands can be more quickly found.

In order to display the main menu bar we proceed as follows:

Enter the command MENUBAR in the command line.

```
Command: menubar
```

```
Enter new value for MENUBAR enter <0>: 1
```

*(confirm with ENTER)*

The menu bar now additionally appears above the ribbon, the one that you know from the older versions of AutoCAD.

## 2.6 Manage CodeMeter licences

### 2.6.1 Check the licence status

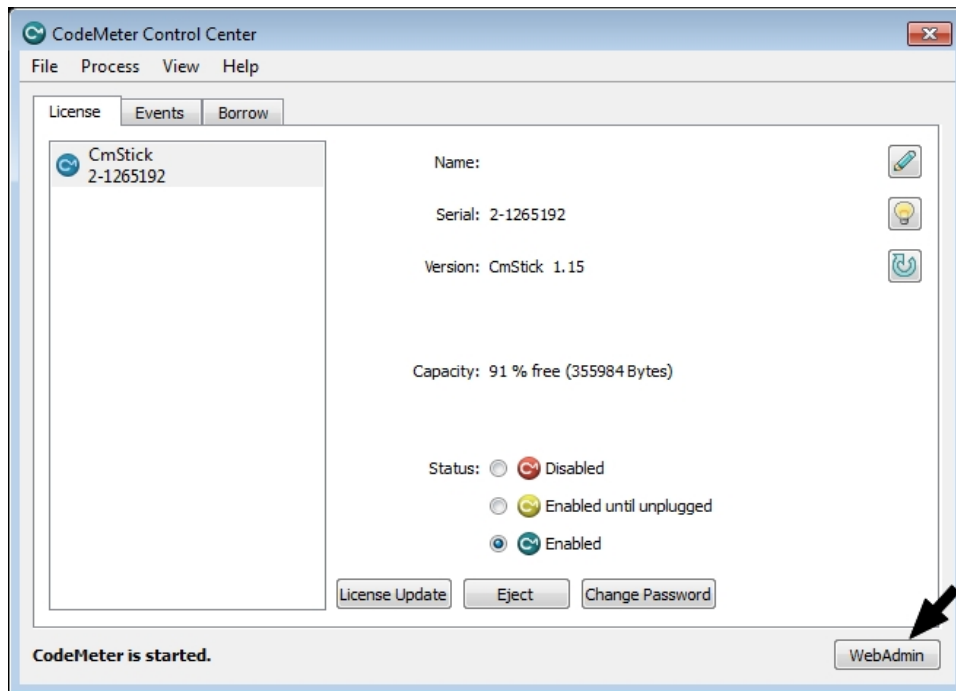
There are two ways of achieving this. The licence status of the products that are currently embedded in AutoCAD can be checked with the command → **Licence management ...** Licence management....

Independently of that you can also see the licence information of your dongle directly in the CodeMeter software. There you can see if the dongle is activated for any other software products.

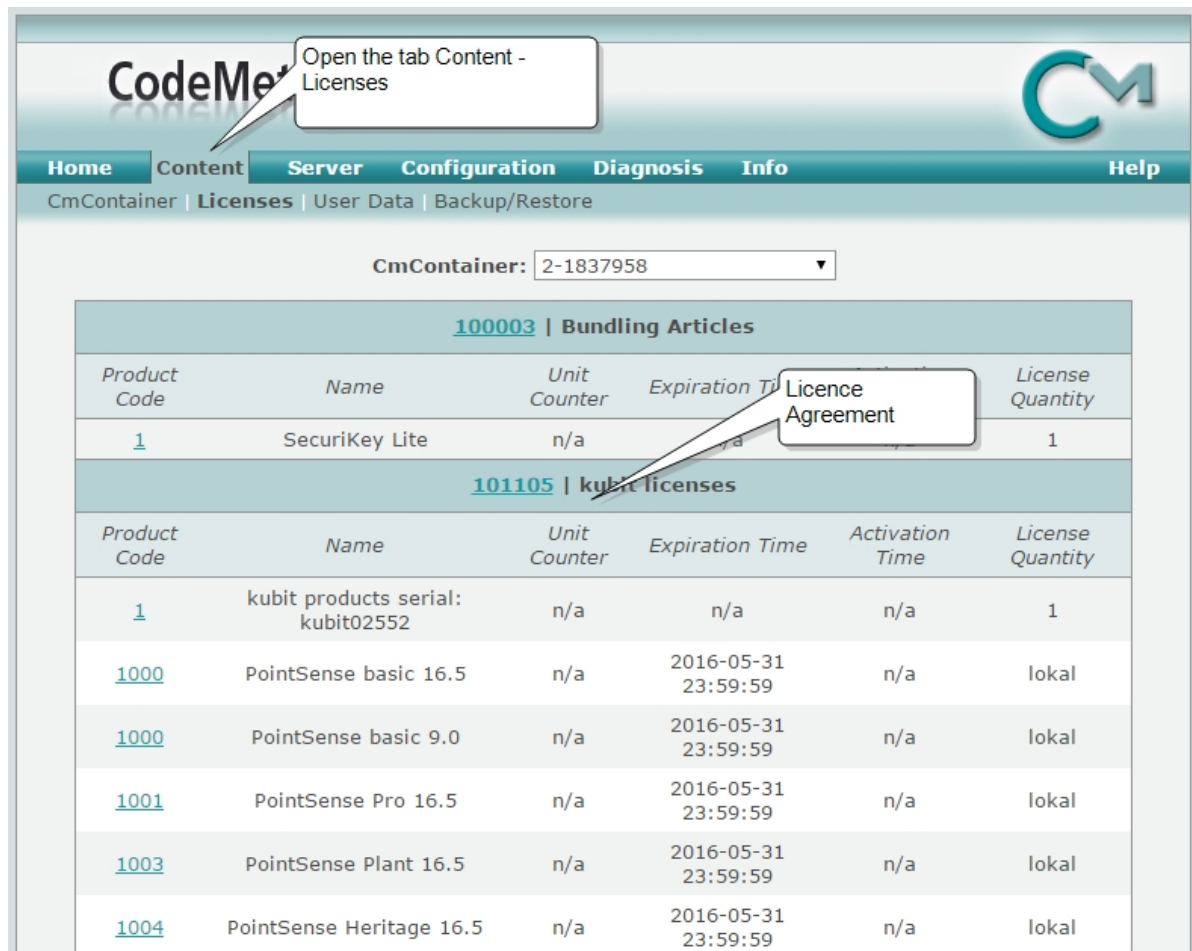
Click on the CodeMeter symbol in the task bar, extreme bottom right on your screen.



The "CodeMeter Control Center" opens. Click in this dialogue box, extreme bottom right, on the button **[WebAdmin]**.



Now the web browser is displayed on the CodeMeter WebAdmin page.



CodeMeter Network Licence	
Column name	Description
Name	You can see here, for which products and add-ons the dongle has a licence.
Unit counter	Shows how many more times the program can be used before the licence expires. Normally here is "n/a" (not applicable - unlimited number).
Expiration Time / Activation Time	With time limited licences you can see how long the licences have to run.
Licence Quantity	If you have purchased a network licence, the number of seats is displayed here. With a single seat licence here will "local" be shown.

### 2.6.2 Request an activation file

If you want to extend your licence or activate a new product, it may be required that you must send us the actual licence status of your dongle. For that a so called CodeMeter Remote Context File (WibuCmRaC) will be created and sent by email to the company FARO 3D Software GmbH. To do that, go through the following steps:

- Start the CodeMeter Control Center by clicking on the CodeMeter symbol in the task bar, extreme bottom right on your screen.



- Now click on the button **[Licence Update]** to start the CmFAS Assistant. Click on the button **[Next >]**.
- Now select the option "Create licence request" and click on **[Next >]**.
- In the next step select the option "Extend existing licence" and click on **[Next >]**.
- Select the entry "FARO Technologies Inc. (101105)" when asked for the software vendor. Then click on **[Next >]**.
- Select a place to save the licence request file. As default the desktop folder is suggested. Then click on **[Commit >]**.
- Finally a message is displayed informing you that the CodeMeter licence request file has been successfully created.

- Now send this file to FARO 3D Software GmbH ([license@faro-3d-software.com](mailto:license@faro-3d-software.com)) and you will promptly receive an update file for the licence activation (see the following section).

### 2.6.3 Licence activation / update

For extending or updating your licence you will receive a licence file from FARO 3D Software GmbH. With the help of this file the new licence will be activated and saved on your dongle. Proceed as follows:

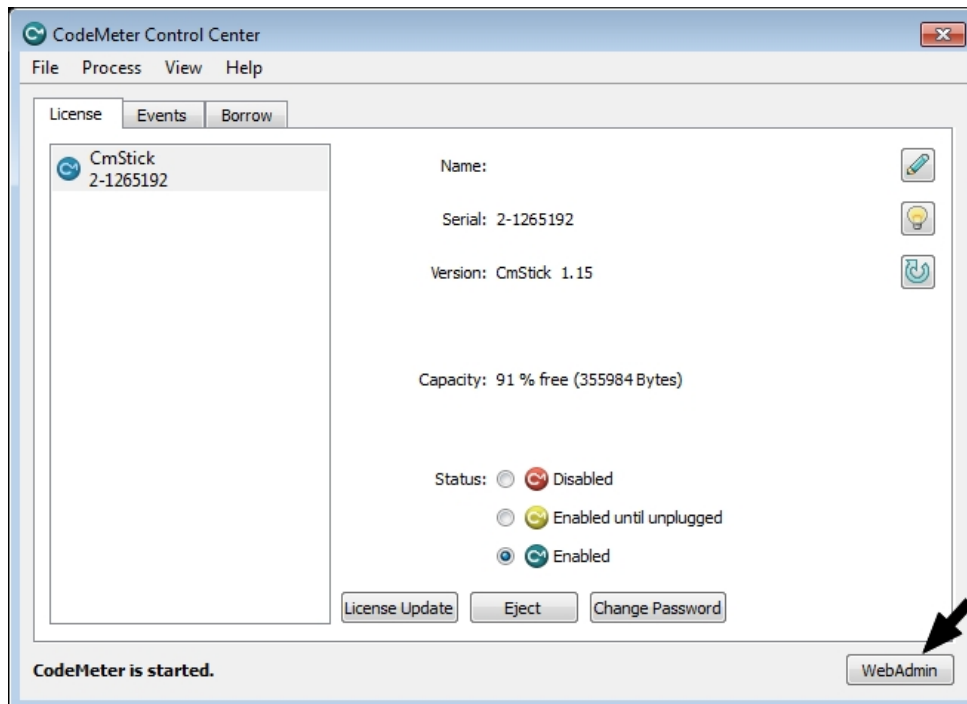
- Save the file on your local hard disk drive, e.g. on the desktop.
- In the situation where this is compressed file (ZIP) first decompress the file, otherwise this step is omitted. You should now have before you a licence file with the extension .WibuCmRaU.
- Double click the licence file (left mouse button).
- A message is displayed that asks if you want to write the new information/new content to your CmStick. Answer with **[Yes]**. The successful activation will be shortly confirmed.
- It is recommended that in connection with the activation the verified time clock of your dongle is also updated. The procedure is to be found in the following section.

### 2.6.4 Verifying the time clock of the dongle

An internet connection is required. Open the CodeMeter Control Center.

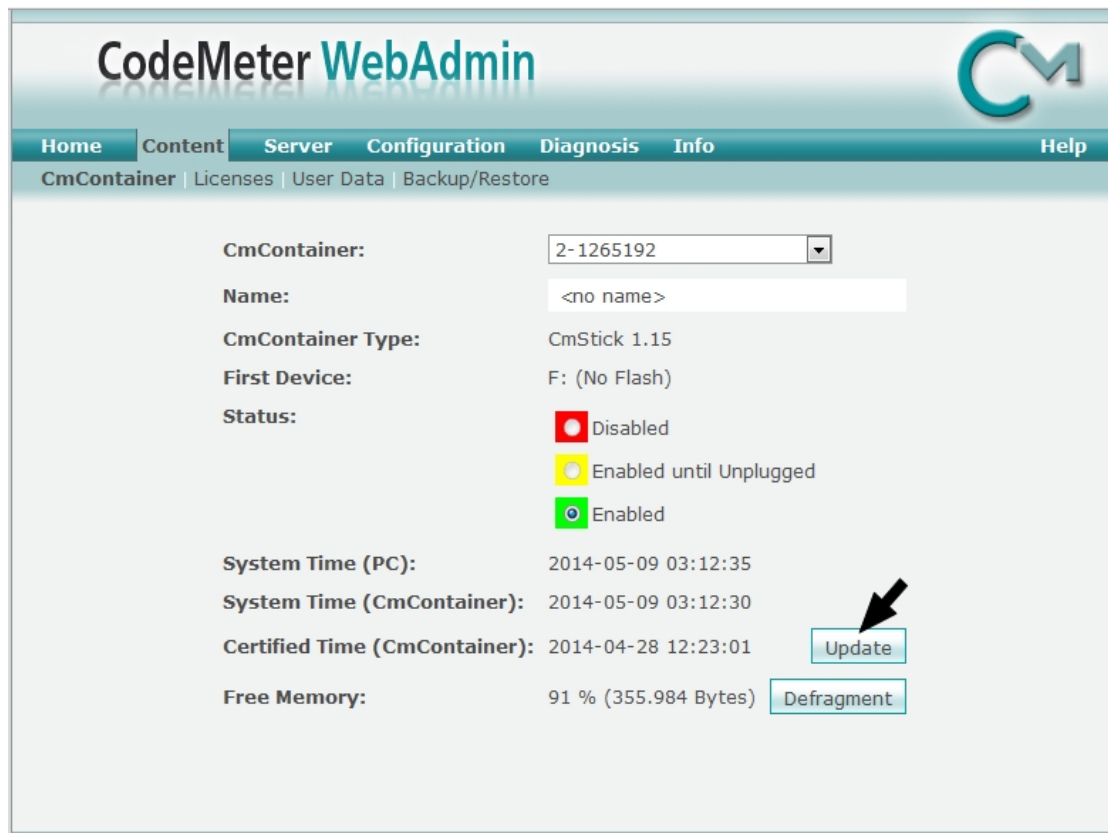


The "CodeMeter Control Center" opens. Click in this dialogue box, extreme bottom right, on the button **[WebAdmin]**.



Now the web browser is displayed on the CodeMeter WebAdmin page.

In WebAdmin open the tab „**Content – CmContainer**“ and click on **[Update]** behind the entry for the certified time.



## 3 kubit Box Command Reference

All of the commands that are relevant for managing and configuring your kubit Box installation, are listed in the Command Reference. The commands are to be found on each of the kubit Box products' tabs in the ribbon. The description of every command starts with a small header block with the following structure:

### Ribbon tab text

Button

Command name:

COMMAND NAME

### Ribbon tab text

Under this nomenclature is to be found the command text used in the ribbon tab for this kubit Box product.

### Button

You can call the command by clicking the button icon shown here in one of the tool bars or ribbon tabs for the kubit Box product.

### Command name

The command name is to be found here that can be entered in the AutoCAD command line.



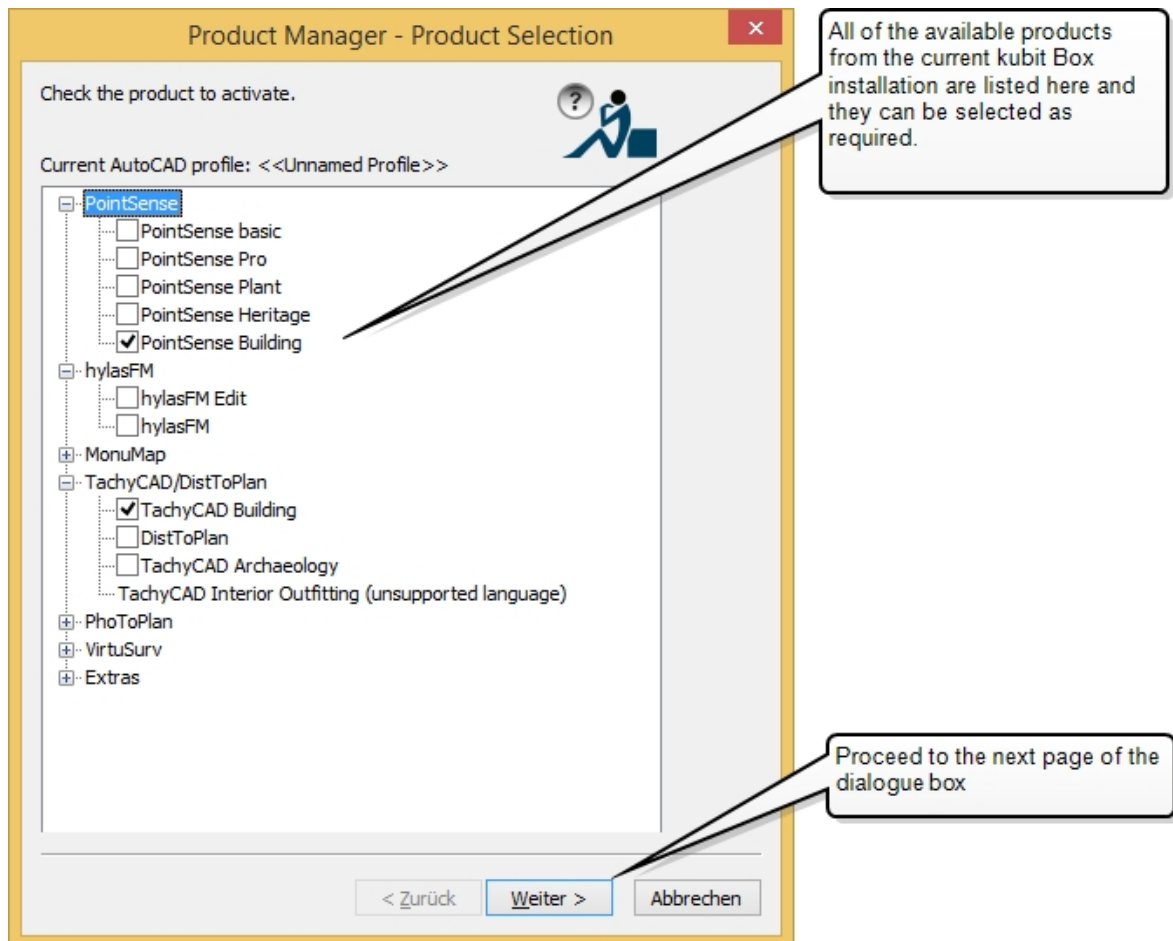
## Product Manager



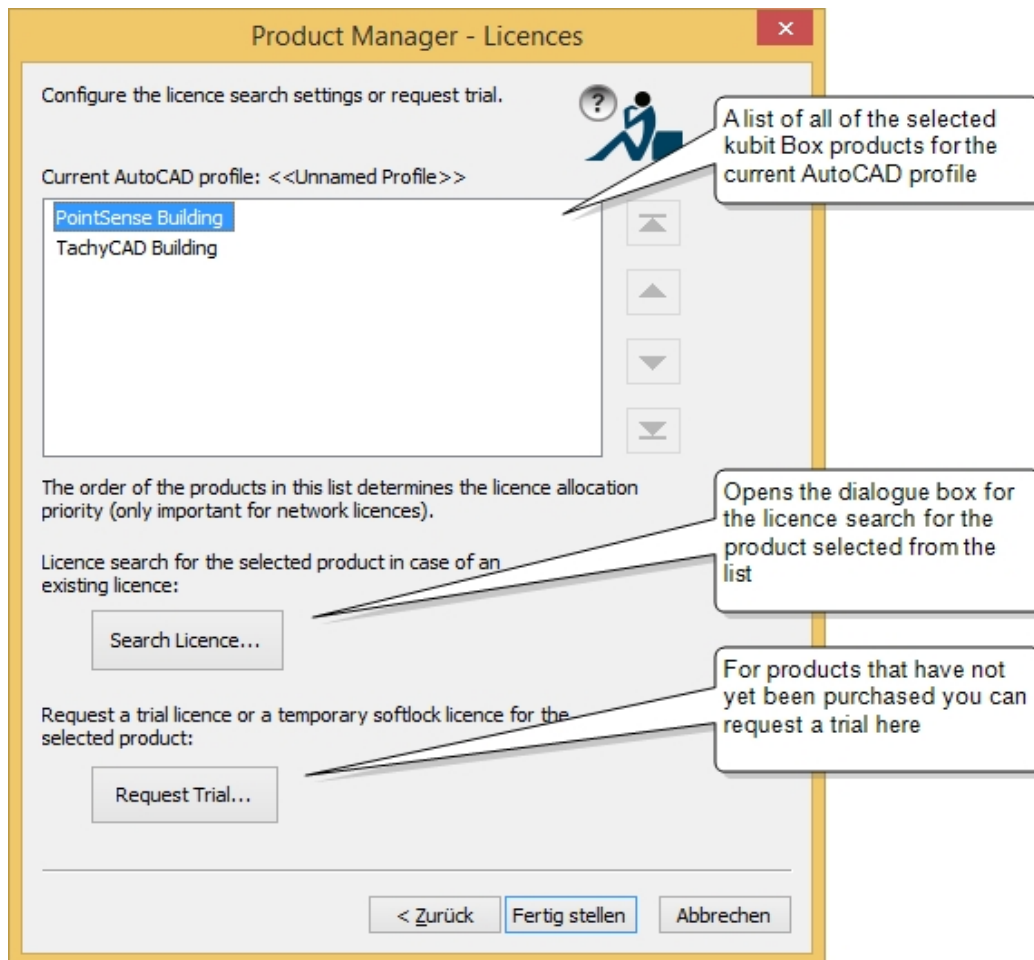
Command name:

KUBT\_CONFIG\_PRODUCTS

This command opens the Product Manager, where the kubit Box products can be selected with which you intended to work.



Multiple products can be simultaneously selected from the product list. If you have not yet purchased a licence for a specific product, but you would like to test it, then it is possible to select this product and from the second page of the Product Manager to request a trial. If you work with multiple AutoCAD profiles then it is possible to embed different products in each profile. By clicking the button **[Next >]** you proceed to the second page of the Product Configurator.



In the pick list you will find all of the kubit Box products that you have selected for the current AutoCAD profile. The order of the products in the list can be changed by using the buttons to the right of the list. The order of the list that has been ordered in such a way will be taken into account by functions that are present in many products. In cases of doubt the software gives precedence to the higher prioritized product. That has two consequences:

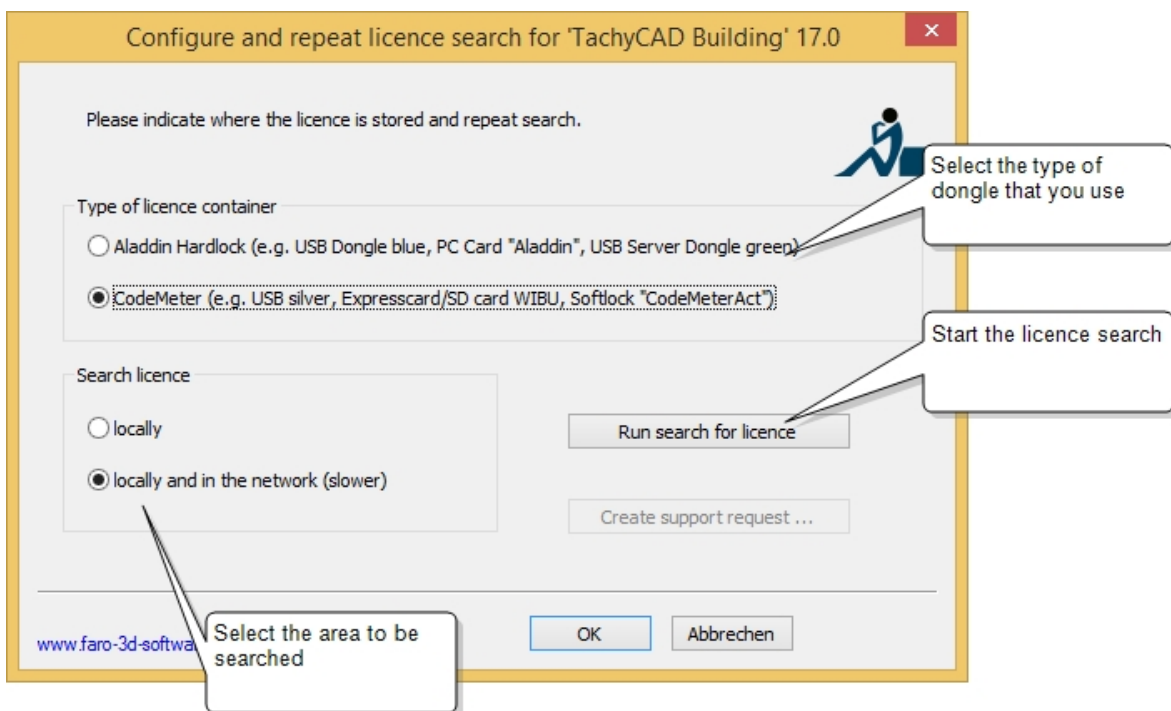
- Should a command be found in two products, but each with different options, the options that will be displayed will be those that belong to product that is higher up in the list.
- Where there are several licences - on one or more network dongles - the order of the products is determined by which licence has been given precedence. This licence is then no longer available in the network for other users to use until this AutoCAD session is ended or that it has been manually released (see below). An example thereto:

You have purchased a PointSense basic licence and a PointSense Building licence and you want to work with both products on two different computers. Both licences are to be found on a single network dongle. In the Product Manager on both computers you have entered PointSense Building as the first product in the list. If you now start a command

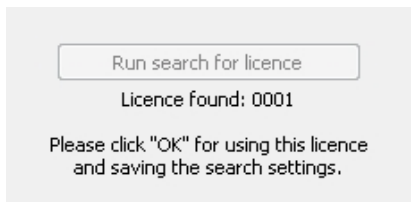
on the first computer that exists in both products (e.g. Slice define (UCS)), then the licence will be reserved for PointSense Building. Then on the second computer there is only the command available from the PointSense basic licence, even when the settings of both Product Managers are identical.

But you can also configure the settings differently, so that on the first computer, the PointSense basic licence is the one that will always be the first to be reserved (first position in the list) and on the second computer the PointSense Building licence. Should the occasion arise where the second computer is not being used, then the second computer can use the PointSense Building licence. In this situation the licences will be reserved in the order that they appear in the list. So that when a general PointSense command is called (e.g. Slice define (UCS)) it will be the PointSense basic licence that will be reserved. Should thereafter a PointSense Building command be called then this licence will also be reserved. In such a situation, to be able to work on the second computer, it is possible during an AutoCAD session to check out the dongle from the first computer from → **Licence management ...** . Now both licences are available and can be used by both computers in the order of the selected priority.

By clicking the button **[Search for Licence...]** you can configure the licence search for the currently selected product in the list. The following dialogue box appears:



Next choose the memory type that is being used (Aladdin Hardlock or CodeMeter) and then the licence search area ("local" or "local and in the network(slower)"). By clicking the button [Run search for licence] you can check if a licence has been found that meets the settings used:



You can also find information about setting up a network licence in section **2.4** .

## Version Manager



Command name:

KUBT\_SELECT\_KUBIT\_BOX\_VERSION

If you have more than one kubit Box version installed on your computer, you can select in the Version Manager with which version you want to work. After calling the command the following dialogue box is displayed:



You can select the appropriate version from the pick list or remove the currently loaded version (Select "**None (unload current version)**"). After confirming the selection with **[OK]**, you will be prompted to restart AutoCAD so that the changes can take effect.

Should you ever have completely unloaded kubit Box, then none of the FARO commands will be able to be called from the AutoCAD menus and ribbon tabs. If this should be the case, you will only be able to start the Version Manager from the AutoCAD command line, to reload a version of the kubit Box. Enter KUBT\_SELECT\_KUBIT\_BOX\_VERSION.

## Licence management ...



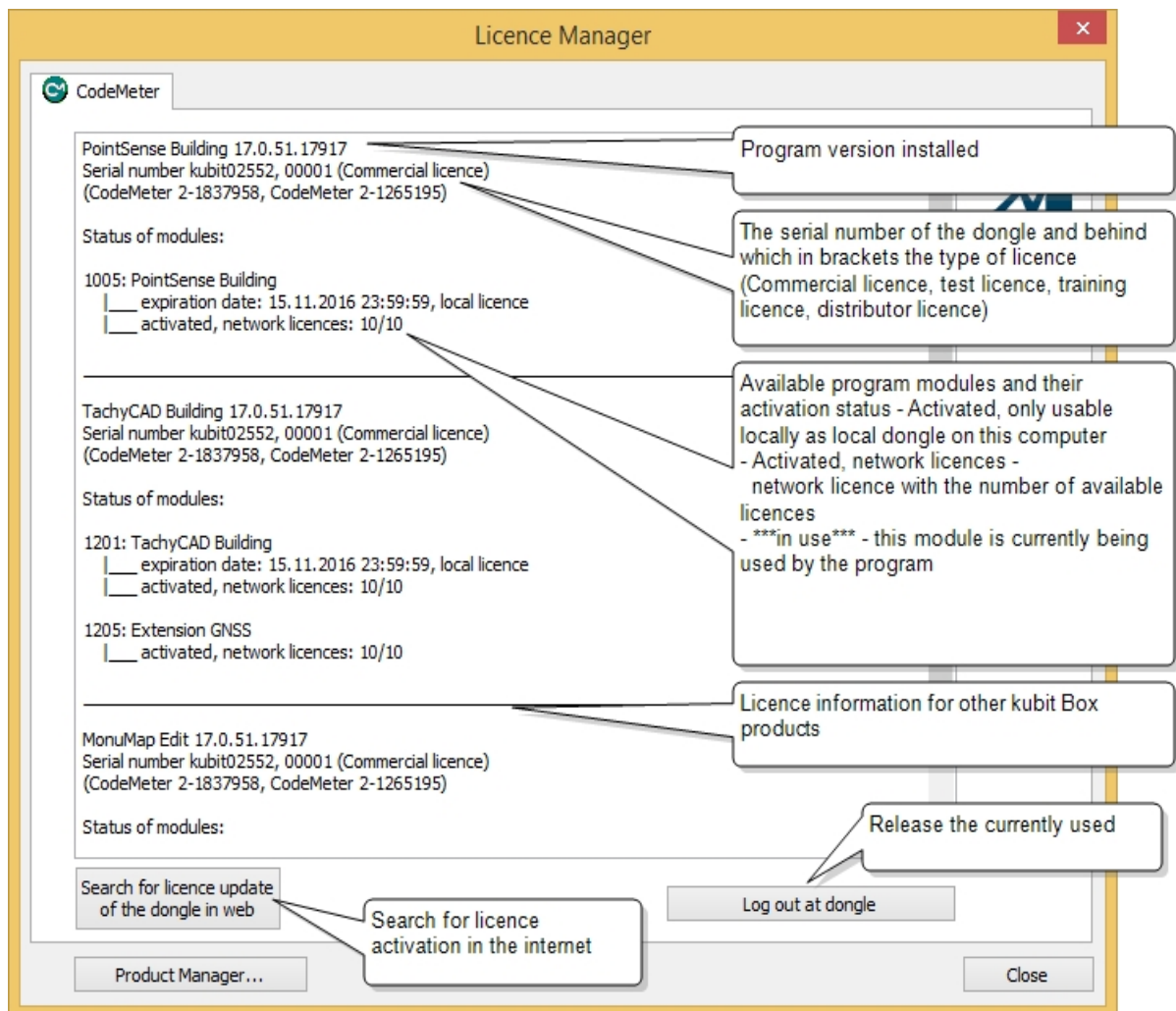
Command name:

KUBT\_SHOW\_LICENCE\_INFO

This command shows you the state of the licences for your FARO products.

Depending on the type of dongle being used, the dialogue box that is displayed will also vary.

### CodeMeter dongle



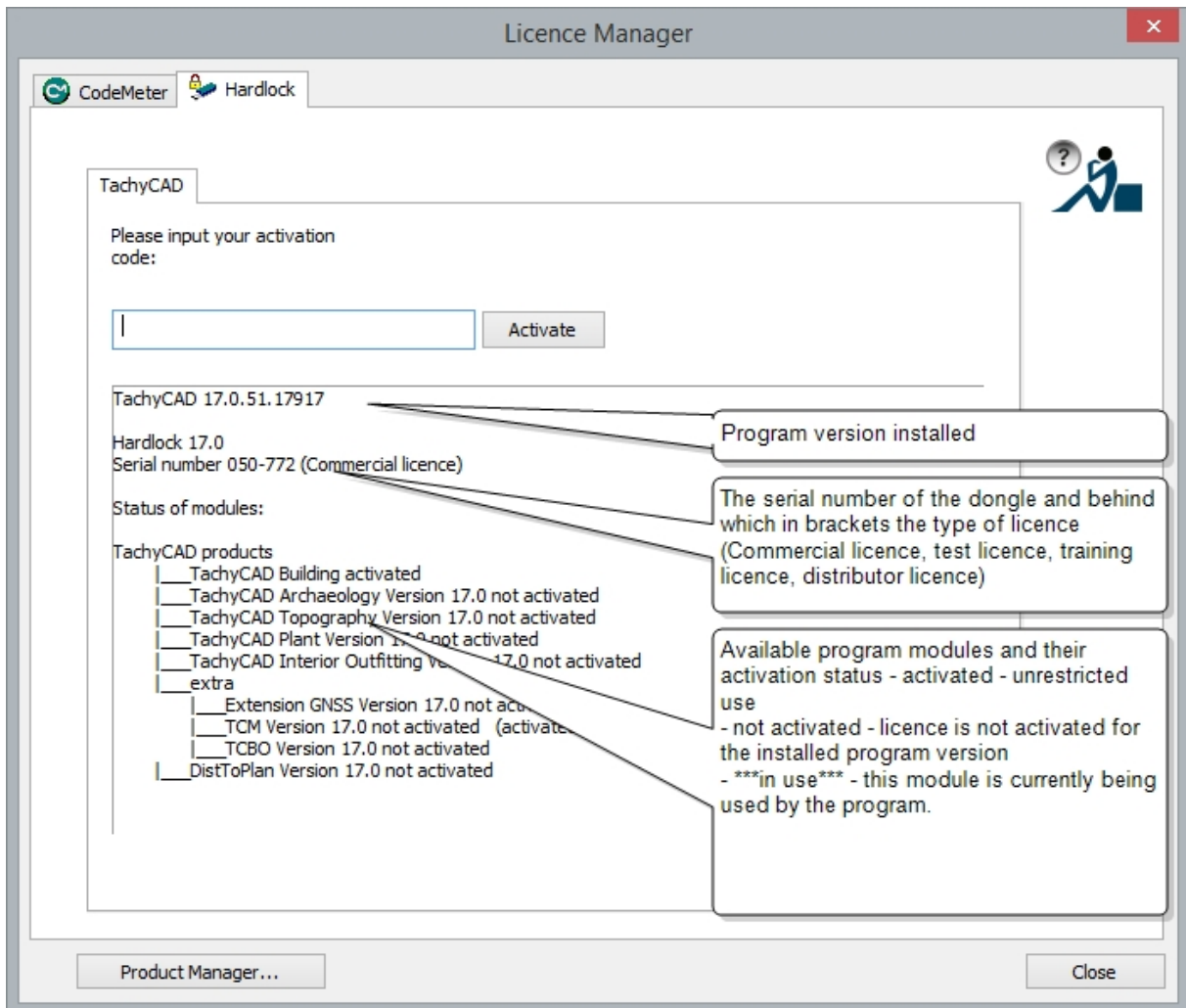
This dialogue box is purely for information purposes. To make changes to your licences (e.g. request a trial, search for licences, release network licences etc.), use the following command

→ **Product Manager**.

By clicking the button **[Log out a Dongle]** you can release the currently used licences, so that they can, for example in the case of a network dongle, be used by other computers in the network. The licence will again be reserved as soon as you call another FARO command, in accordance with the settings in the → **Product Manager**.

## Hardlock Dongle

Hardlock is a dongle that was delivered with earlier versions of kubit software. It only has a meaning for existing customers.



This dialogue box not only serves to show you the current status of your licences, but also allows you to activate the dongle. Enter the activation code that you have received from FARO here.

For all other licence options (request a trial and licence search) use the → **Product Manager**.

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Should one or more of the provisions of this Agreement be or become invalid, or should the Agreement contain an omission, all of the remaining provisions shall retain their legal effectiveness. The parties agree that the invalid provision shall be replaced by a valid provision that comes closest to the commercial effect intended by the parties hereto.

Any change to this Agreement must be made in writing. There are no ancillary verbal agreements.

This Agreement shall be subject to the laws of the Federal German Republic. The executive place of jurisdiction for all disputes under this Agreement shall be Dresden.

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