



acontis technologies GmbH

Licensing

RTOS Virtual Machine

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1 Licensing

1.1 EC-Master (MAC-ID)

1.1.1 General

This product requires a valid license to be run. If your project also requires a MAC-ID licensed EC-Master it's possible to use the MAC-ID based license of EC-Master to get this product licensed. Finally one MAC-ID based licence is required to get both products (RTOS VM and EC-Master) licensed.

1.1.2 Required steps

Add the following function call of the EC-Master library o your project and recompile it.

```
- ecatSetLicenseKey("__LICENSE_KEY__");
```

No further actions are needed.

For additional information please check-out the specific EC-Master manual.

Hint: It's recommended that the call of `ecatSetLicenseKey` is done somewhere at start-up of the application.

1.2 CodeMeter

1.2.1 USB or virtual Dongle

CodeMeter supports a hardware solution based on different types of USB dongles and a software solution using a machine specific virtual dongle.

Aside from the first configuration is their handling equal.

CodeMeter requires the “CodeMeter Runtime-Kit” to recognize the licenses. This Kit will be automatically installed by our product setup.

It can alternatively be downloaded from “http://wibu.com/download_user.php”.

1.2.2 USB dongle already containing a License

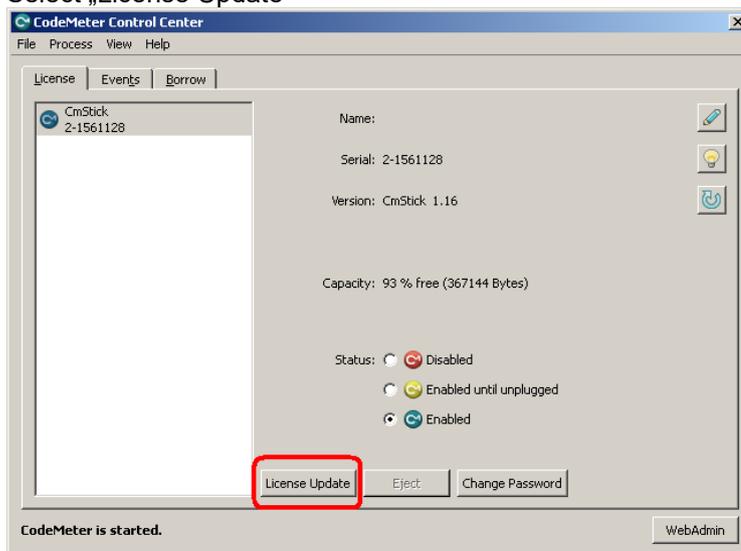
If you received an USB-Dongle including the license you can just plug the dongle into the PC and as soon as it is recognized the „CodeMeter Control Center“ will change its icon from grey to green.

1.2.3 USB dongle not yet containing a License

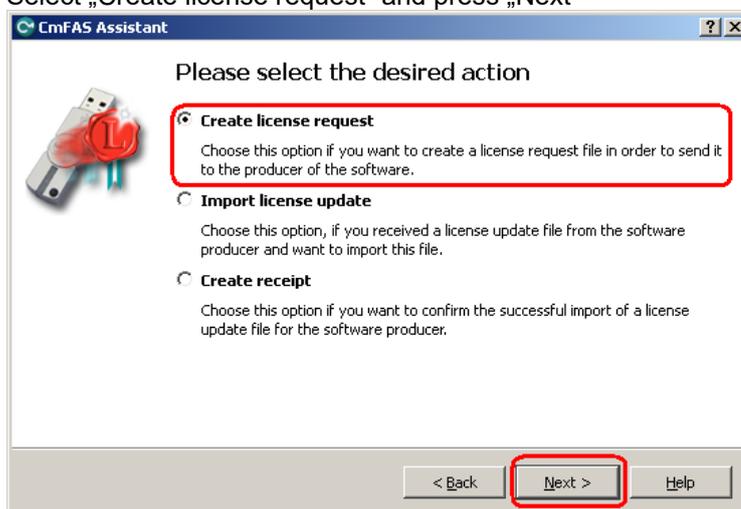
In case you already own an USB-Dongle and want to add a license you need to create a license request and send it to your support contact to receive a license update.

1.2.3.1 Generate license request

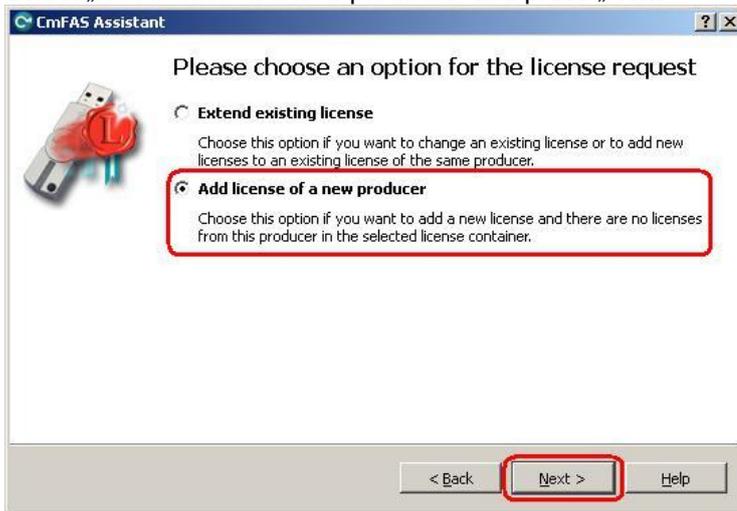
- Plug in your dongle
- Open „CodeMeter Control Center“  and select the dongle you want to receive a new license or a license update for.
- Select „License Update“



- Press „Next“
- Select „Create license request“ and press „Next“



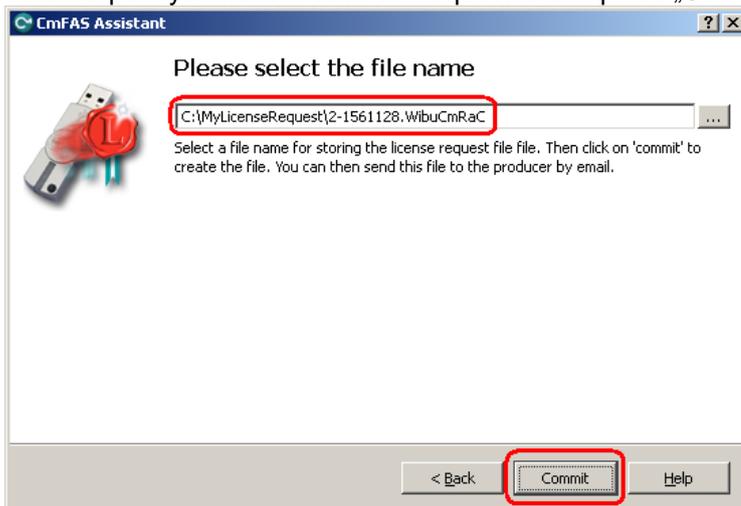
- Select „Add license of a new producer“ and press „Next“



- Enter „101409“ and press „Next“



- Select a path you want to save the request to and press „Commit“



Please send the created file to your support contact requesting a new license.

1.2.3.2 Import a new license or a license update

If your support contact sent you a license update file (“YourFilename.WibuCmRaU”) you may install it as described at “1.2.5.2 Import a license update”

1.2.4 Virtual Dongle

1.2.4.1 Virtual Machine (VM) usage

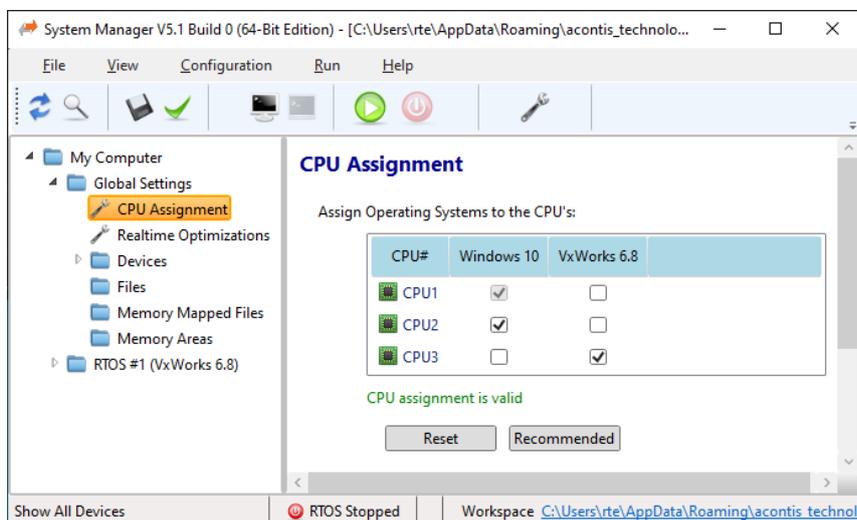
A Virtual Dongle license is bound to the hardware and a VM represents configurable, virtualized hardware, so attention must be paid not to break the license.

We are using the recommended configuration for our CmActLicense: SmartBind with a tolerance value of "2".

CodeMeter documentation says:

The behavior of CmActLicense with the binding scheme SmartBind for licenses in a VM is defined as follows:

- If the VM is copied, i.e. the "I copied it" option has been selected, the license becomes invalid.
- If the VM is moved, i.e. the "I moved it" option has been selected, then the license remains intact in case of the same CPU types. However, if the CPU types differs, the license also becomes invalid except the tolerance level has been set to a value of "3" (loose).
- If a previously created snapshot of the VM is reverted, the license becomes invalid.



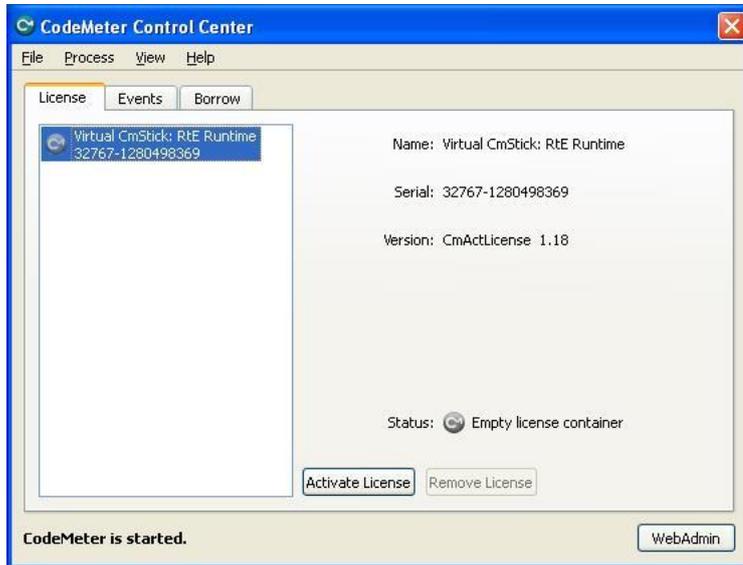
It is also required to configure the correct number of Windows CPUs before starting the following license activation.

Please do not change any configuration between generating the license request and installing the received license-update or the update might fail.

1.2.4.2 Import empty license container

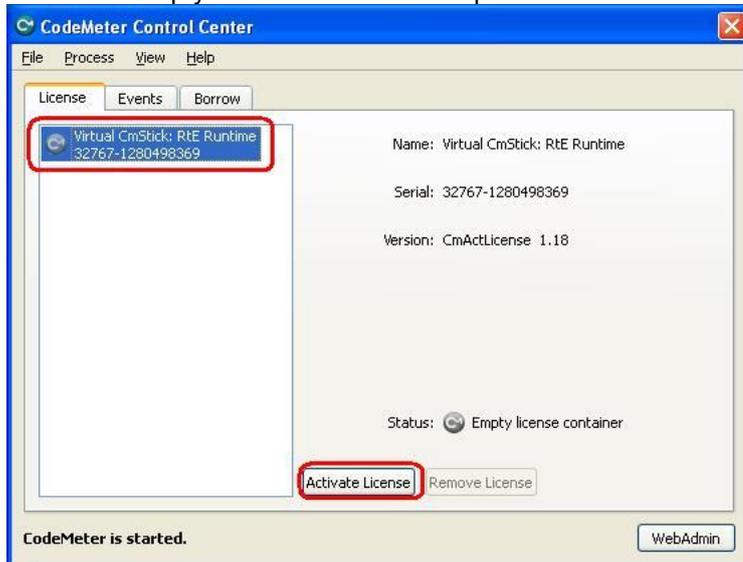
For the software based solution you need the „RtE.WibuCmLIF“ file, which can be found in the „RteRuntime.*“ directory of your downloaded zip file.

- Open „CodeMeter Control Center“
- Drop the file “FileFromSupport.WibuCmLIF” from the File-Explorer into the “CodeMeter Control Center”



1.2.4.3 Activate License

- Open „CodeMeter Control Center“
- Select the empty license container and press “Activate License”



- press "Next"



- Select "Create license request" and press "Next"



- Select a path you want to save the request to and press „Commit“



Please send the created file to your support contact requesting a new license.

1.2.4.4 Import a new license or a license update

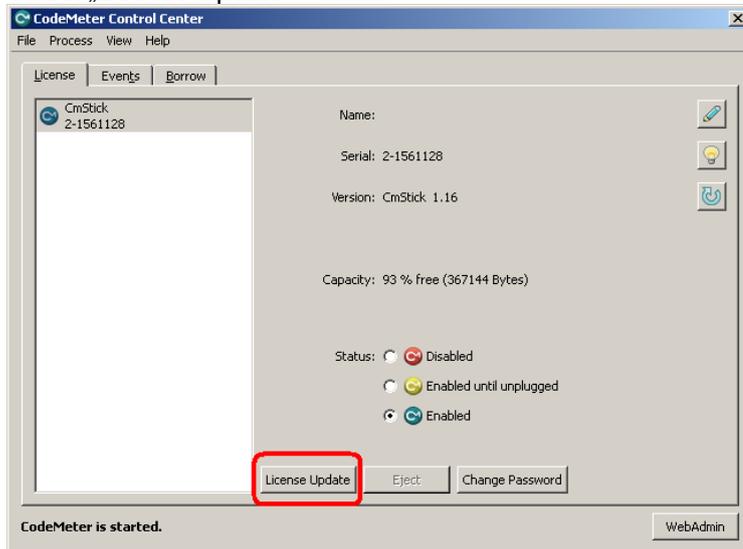
If your support contact sent you a license update file ("YourFilename.WibuCmRaU") you may install it as described at "1.2.5.2 Import a license update"

1.2.5 Update a license

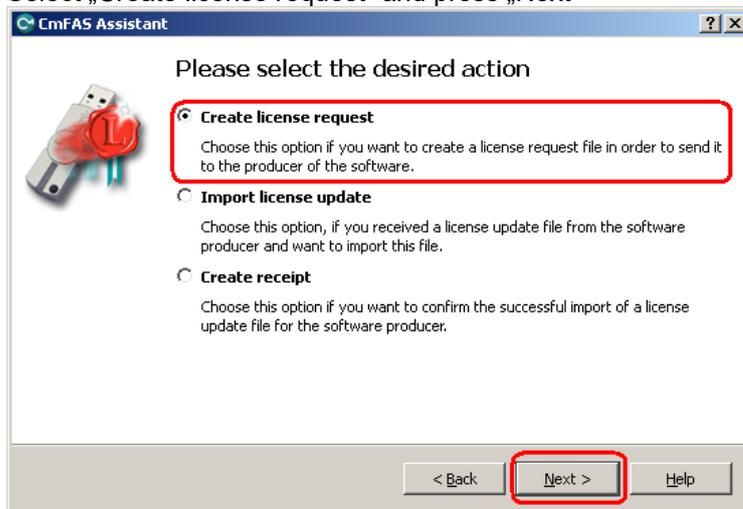
In this case you need to create a license request and send it to your support contact to receive a license update.

1.2.5.1 Generate license request

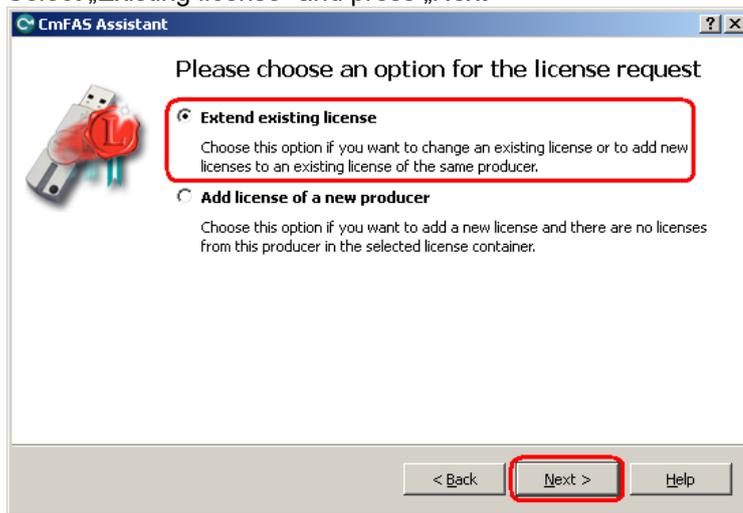
- Open „CodeMeter Control Center“  and select the dongle you want to receive a license update for.
- Select „License Update“



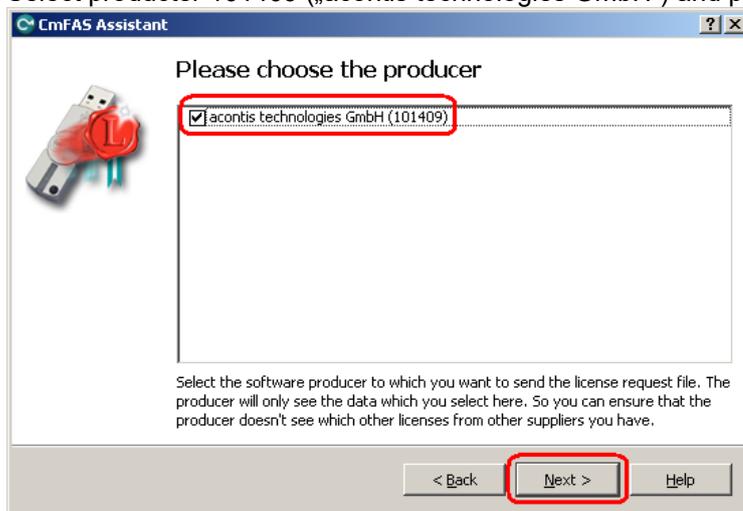
- Press „Next“
- Select „Create license request“ and press „Next“



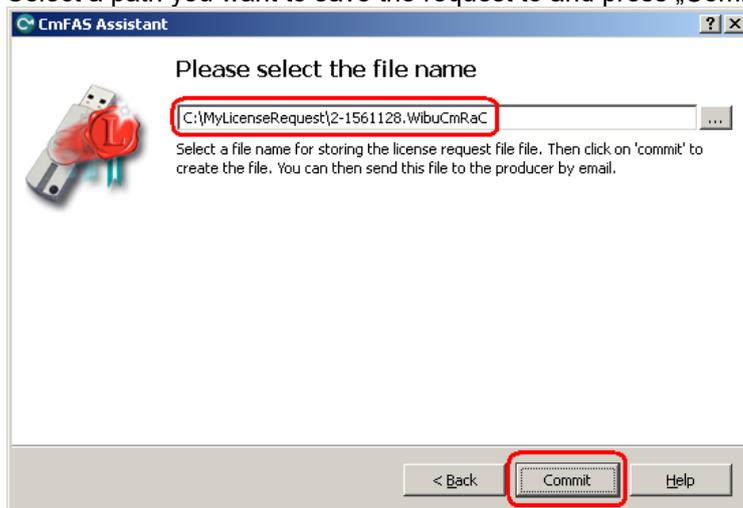
- Select „Existing license“ and press „Next“



- Select producer 101409 („acontis technologies GmbH“) and press „Next“



- Select a path you want to save the request to and press „Commit“

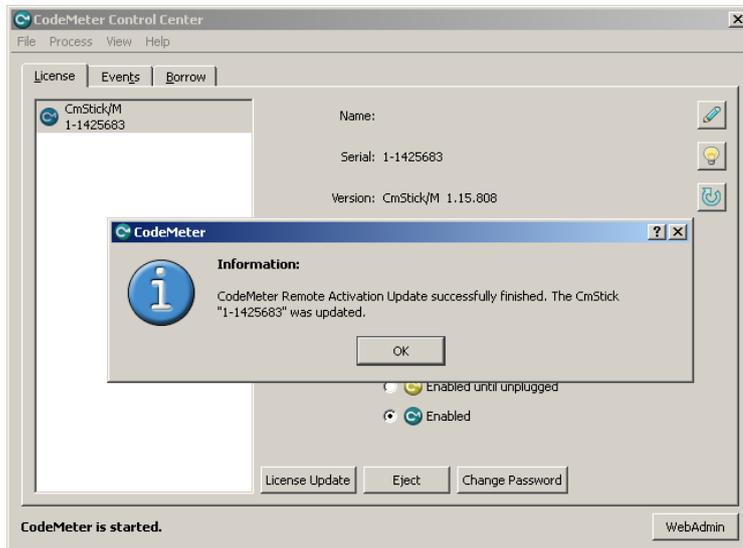


Please send the created file to your support contact requesting a new license.

1.2.5.2 Import a license update

If your support contact sent you a license update file ("YourFilename.WibuCmRaU") you may install it using the "CodeMeter Control Center".

- Open „CodeMeter Control Center“ 
- Drop the file "YourFilename.WibuCmRaU" from the File-Explorer into the "CodeMeter Control Center"



1.2.6 Sharing a License

Depending on your license it is possible to share it over a network. This allows to plug the dongle into a license server and use its license(s) from another PC over the network.

A license which can only be used locally:



The screenshot shows the CodeMeter WebAdmin interface. The 'Server' tab is selected, and the 'Licenses' sub-tab is active. The 'CmContainer' dropdown is set to '127-117986031'. Below this, a table displays license information for container '5010 | acontis technologies GmbH'. The table has columns for Product Code, Name, Unit Counter, Expiration Time, Activation Time, and License Quantity. One license is listed with Product Code '4294901760', Name 'RtE Runtime', and License Quantity 'local', which is circled in red.

| Product Code | Name | Unit Counter | Expiration Time | Activation Time | License Quantity |
|----------------------------|-------------|--------------|-----------------|-----------------|------------------|
| 4294901760 | RtE Runtime | n/a | n/a | n/a | local |

Licenses which can be used over the network:



The screenshot shows the CodeMeter WebAdmin interface. The 'Server' tab is selected, and the 'Licenses' sub-tab is active. The 'CmContainer' dropdown is set to '2-1561128'. Below this, a table displays license information for container '101409 | acontis technologies GmbH'. The table has columns for Product Code, Name, Unit Counter, Expiration Time, Activation Time, and License Quantity. Two licenses are listed: '16975104' (VxWin 3.5 Development) and '17039616' (VxWin 4.1 Development), both with a License Quantity of '1', which are circled in red.

| Product Code | Name | Unit Counter | Expiration Time | Activation Time | License Quantity |
|--------------------------|-----------------------|--------------|-----------------|-----------------|------------------|
| 16975104 | VxWin 3.5 Development | n/a | n/a | n/a | 1 |
| 17039616 | VxWin 4.1 Development | n/a | n/a | n/a | 1 |

1.2.6.1 Single PC

The "CodeMeter Runtime-Kit" was installed by the product setup. You can just plug the dongle into the PC and as soon as it is recognized the „CodeMeter Control Center" will change its icon from grey to green.

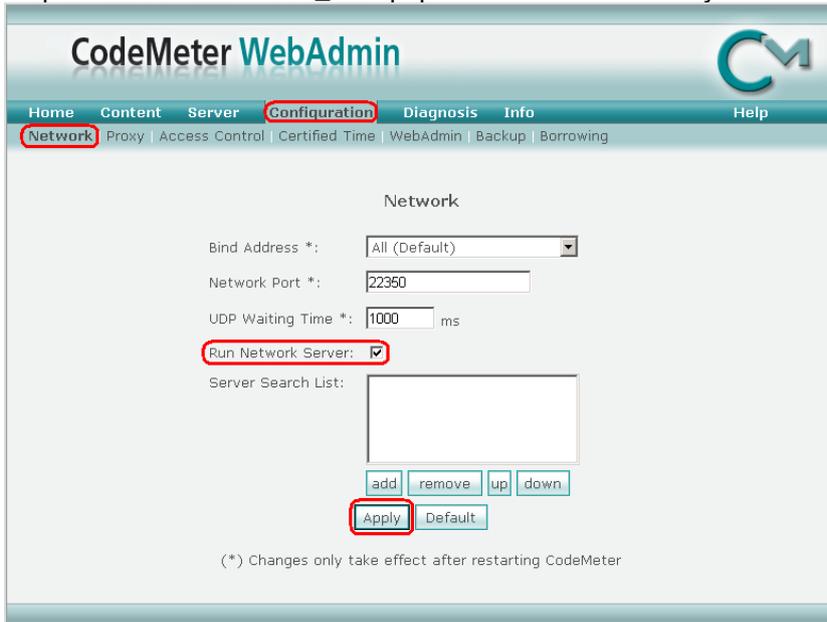
1.2.6.2 Two PCs with dongle on target

If you have a PC with the runtime environment (target) where you want to plug the dongle in and a development PC (host) you need the "CodeMeter Runtime-Kit" being installed on the target PC. This should already be done by the product setup. You can just plug the dongle into the target PC and as soon as it is recognized the „CodeMeter Control Center" will change its icon from grey to green.

1.2.6.3 Two PCs with dongle on host

If you have a PC with the runtime environment (target) and a development PC (host) where you want to plug the dongle in you need the "CodeMeter Runtime-Kit" being installed on both PC. This should already be done by the product setup if you used it to install runtime components on the target and

development components on the host.
Alternatively the “CodeMeter Runtime-Kit” can be downloaded from
“http://wibu.com/download_user.php” and installed manually.



On your host PC you must configure the “CodeMeter Control Center” to act as license server:

- Open “CodeMeter Control Center”
- Click “WebAdmin”
- Select “Configuration” – “Network”
- Enable “Run Network Server”
- Press “Apply”

1.2.7 Troubleshooting

If a license error occurs in spite of a valid license possibly the Dongle has an incorrect time.
In this case the time has to be updated:

- Open „CodeMeter Control Center“ 
- Select „WebAdmin“
- Select „Content“ and „CmStick“



- Press “Update” to update the time. A connection to the internet will be required.