

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 <code>ecatSetLicenseKey</code> 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" C and select the dongle you want to receive a new license or a license update for.

CodeMeter Control Center			
Process View Help			
License Even <u>t</u> s <u>B</u> orrow			
© CmStick 2-1561128	Name:		6
	Serial:	2-1561128	9
	Version:	CmStick 1.16	5
	Capacity:	93 % free (367144 Bytes)	
	Status:	🔿 😋 Disabled	
		🔿 🎯 Enabled until unplugged	
		💿 😋 Enabled	
	License Update	Eject Change Password	

- Press "Next"

CmFA5 Assistar	ht ?
	Please select the desired action
	Create license request
	Choose this option if you want to create a license request file in order to send it to the producer of the software.
	O Import license update
	Choose this option, if you received a license update file from the software producer and want to import this file.
	C Create receipt
	Choose this option if you want to confirm the successful import of a license update file for the software producer.

Select "Add license of a new producer" and press "Next"

😋 CmFAS Assistan		? ×
~	Please choose an option for the license request	
	C Extend existing license Choose this option if you want to change an existing license or to add new licenses to an existing license of the same producer.	
	Add license of a new producer	٦.
-	Choose this option if you want to add a new license and there are no license from this producer in the selected license container.	s
		,
		-24
	< <u>B</u> ack <u>N</u> ext > <u>H</u> elp	

- Enter "101409" and press "Next"

😋 CmFAS Assista	nt	<u>?</u> ×
	Please enter the FirmCode	
	< <u>B</u> ack <u>N</u> ext >	Help

Select a path you want to save the request to and press "Commit"

C CmFAS Assistant		
	Please select the file name	
	C:\MyLicenseRequest\2-1561128.WibuCmRaC	l
	Select a file name for storing the license request file file. Then click on 'commit' to create the file. You can then send this file to the producer by email.	
-		
	< Back Commit Help	i

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"

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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

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"

😋 CodeMeter Control Center		×
<u>File Process View H</u> elp		
License Events Borrow		
Virtual CmStick: RtE Runtime 32767-1280498369	Name: Virtual CmStick: RtE Runtime	
	Serial: 32767-1280498369	
	Version: CmActLicense 1.18	
	Status: 🔍 Fronty license container	
	Activate License Remove License	
CodeMeter is started.	We	ebAdmin

1.2.4.3 Activate License

- Open "CodeMeter Control Center"
- Select the empty license container and press "Activate License"

😋 CodeMeter Control Center	
<u>File Process View H</u> elp	
License Events Borrow	
Virtual CmStick: RtE Runtime 32767-1280498369	Name: Virtual CmStick: RtE Runtime
	Serial: 32767-1280498369
	Version: CmActLicense 1.18
	Status: 🎯 Empty license container
	ctivate License Remove License
CodeMeter is started.	WebAdmin

- press "Next"

-

-

Welcome to the The CodeMeter Field Activ changing and deleting licer With the CmFAS assistant to the producer of the soft update files with the CmFA receipt of the import for the	e CmFAS Assistant! ation Service (CmFAS) assistant helps you adding, ises from the license management system CodeMeter. you can create license request files, which you can send tware by email. You can also import the received license S assistant into the license management and create a
The CodeMeter Field Activ changing and deleting licer With the CmFAS assistant to the producer of the soft update files with the CmFA receipt of the import for th	ation Service (CmFAS) assistant helps you adding, nses from the license management system CodeMeter. you can create license request files, which you can send tware by email. You can also import the received license S assistant into the license management and create a
With the CmFAS assistant to the producer of the soft update files with the CmFA receipt of the import for th	you can create license request files, which you can send ware by email. You can also import the received license S assistant into the license management and create a
	e producer.
	< Back Next > Help
Select "Create license reques	st" and press "Next"
😋 CmFAS Assistant	? 🛛
Please select th	e desired action
🔗 🕜 Create license requ	iest
Choose this option if y	ou want to create a license request file in order to send it software.
O Import license upd	ate
Choose this option, if y producer and want to	you received a license update file from the software import this file.
🔘 Create receipt	841.8 T2 09 2727 5074279849
Choose this option if y update file for the soft	ou want to confirm the successful import of a license ware producer.
	< Back Next > Help
Select a path you want to sav	ve the request to and press "Commit
CmFAS Assistant	? 🔀
Please select th	ne file name
C:\MyLicenseRequest\327	767-1280498369.WibuCmRaC
Select a file name for stori create the file. You can the	ng the license request file file. Then click on 'commit' to en send this file to the producer by email.
	< Back Commit Help

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 Undate"

<u>?</u>×

Select "License Upda	ate"		
😋 CodeMeter Control Center			×
File Process View Help			
License Events Borrow			1
CmStick 2-1561128	Name:		Ø
	Serial:	2-1561128	
	Version:	CmStick 1.16	ା
	Capacity:	93 % free (367144 Bytes)	
	Status:	🔿 😋 Disabled	
		🔿 😋 Enabled until unplugged	
		📀 😋 Enabled	
	License Update	Eject Change Password	
CodeMeter is started.			WebAdmin

- Press "Next"

Select "Create licer	se request" and press "Next"
CmFAS Assistant	

	Please select the desired action
	🖲 Create license request
	Choose this option if you want to create a license request file in order to send it to the producer of the software.
•	C Import license update
	Choose this option, if you received a license update file from the software producer and want to import this file.
	C Create receipt
	Choose this option if you want to confirm the successful import of a license update file for the software producer.
	< <u>B</u> ack Next > Help

Select "Existing license" and press "Next"

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😋 CmFAS Assistan	nt 🤶	Ľ×
	Please choose an option for the license request	
	Extend existing license	
Choose this option if you want to licenses to an existing license of	Choose this option if you want to change an existing license or to add new licenses to an existing license of the same producer.	
•	C Add license of a new producer	
	Choose this option if you want to add a new license and there are no licenses from this producer in the selected license container.	
	< <u>Back</u> Next > Help	

Select producter 101409 ("acontis technologies GmbH") and press "Next"

C LmFA5 Assistan	t	ŶŇ
	Please choose the producer	
	I Select the software producer to which you want to send the license request file producer will only see the data which you select here. So you can ensure that i producer doesn't see which other licenses from other suppliers you have.	e. The the
	< <u>B</u> ack <u>N</u> ext > <u>H</u> elp	

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" Control to the file "YourFilename.WibuCmRaU" from the File-Explorer into the "CodeMeter Control -Center"

CodeMeter Control Center File Process View Help		×
License Even <u>t</u> s <u>B</u> orrow		
CmStick/M 1-1425683	Name:	Ø
	Serial: 1-1425683	9
	Version: CmStick/M 1.15.808	6
CodeMeter	mation:	<u>?×</u>
CodeM	Neter Remote Activation Update successfully finished. The CmStick (5683" was updated.	<
	ОК	
	Enabled until unplugged	
	License Update Eject Change Password	
CodeMeter is started.		WebAdmin

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.

20	paelv	eter W	ebAdmi	in		C
ome nContair	Content	Server	Configuration	Diagnosis I tore	nfo	Help
		C	mContainer:	127-117986031	~	
			<u>5010</u> acon	ntis technologies (GmbH	
	100000 10	Name	Unit Counter	Expiration Time	Activation Time	License Quantity
Produ	ct Code					and the second s

Licenses which can be used over the network:

CodeM	leter Web	Admin			C
me Content Container Licer	Server Conf Ises User Data Ba	iguration I ackup/Restore	Diagnosis Info	_	Help
	CmCo	ntainer: 2-15	61128	~	
	<u>101</u>	409 acontis	technologies Gmbl	4	
Product Code	Name	Unit Counter	Expiration Time	Activation Time	License Quantity
<u>16975104</u>	VxWin 3.5 Development	n/a	n/a	n/a	1
<u>17039616</u>	VxWin 4.1 Development	n/a	n/a	n/a	1
<u>17039616</u>	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.

CodeMeter WebAdmin
Home Content Server Configuration Diagnosis Info Help Network Proxy Access Control Certified Time WebAdmin Backup Borrowing
Network
Bind Address *: All (Default)
Network Port *: 22350
UDP Waiting Time *: 1000 ms
Run Network Server: 🔽
Server Search List:
Apply Default
(*) Changes only take effect after restarting CodeMeter

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"

ite Content Server Stick Licenses User Data B	configuration Diagnosis Into Help ackup/Restore
CmStic	«: 2-1561128
Name:	<no name=""></no>
Hardwa	re: CmStick 1.16
First De	vice: G: (No Flash)
Status	Disabled
	C Enabled until Unplugged
	 Enabled
Certifie	d Time: 2010-01-18 10:32:26 Update
Box Tin	e: 2010-08-10 09:51:30
System	Time: 2010-08-10 09:51:39
Free M	mory: 93 % (366.912 Bytes) Defragment

Press "Update" to update the time. A connection to the internet will be required.