dSPACE Installation Manager 24.1

Working with CodeMeter Licensing Technology

Release 2024-A - May 2024



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You can also use the support request form: https://www.dspace.com/go/supportrequest. If you are logged on to mydSPACE, you are automatically identified and do not have to add your contact details manually.

If possible, always provide the serial number of the hardware, the relevant dSPACE License ID, or the serial number of the CmContainer in your support request.

Software Updates and Patches

dSPACE strongly recommends that you download and install the most recent patches for your current dSPACE installation. Visit https://www.dspace.com/go/patches for the software updates and patches themselves and for more information, such as how to receive an automatic notification when an update or a patch is available for your dSPACE software.

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About This Document

Contents	This document shows you how to manage licenses for dSPACE Release 2017-B and later. Licenses for these Releases are based on the CodeMeter licensing technology. The document introduces you to the technology and gives instructions for license handling, for example, for license activation.
Required knowledge	Knowledge in handling the host PC and the Microsoft operating system is assumed.
Printed document	A printed copy of this document is available on demand. You can order it free of charge by using the following link: https://www.dspace.com/go/requestreleasematerial

Symbols

dSPACE user documentation uses the following symbols:

Symbol	Description
A DANGER	Indicates a hazardous situation that, if not avoided, will result in death or serious injury.
A WARNING	Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
	Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.
NOTICE	Indicates a hazard that, if not avoided, could result in property damage.
Note	Indicates important information that you should take into account to avoid malfunctions.
Тір	Indicates tips that can make your work easier.
?	Indicates a link that refers to a definition in the glossary, which you can find at the end of the document unless stated otherwise.

	Symbol	Description				
		Follows the document title in a link that refers to another document.				
Naming conventions	dSPACE user document	ation uses the following naming conventions:				
	%name% Names e file and path names.	nclosed in percent signs refer to environment variables for				
	Angle brackets of file and path names, etc.	contain wildcard characters or placeholders for variable c.				
Special Windows folders	Windows-based softwa	re products use the following special folders:				
	Common Program Da program data that is us	ta folder A standard folder for application-specific ed by all users.				
	%PROGRAMDATA%\dSPA	CE\ <installationguid>\<productname></productname></installationguid>				
		CE) (DraductName) / (/orcienNumber)				
	%PROGRAMDATA%\dSPACE\ <productname>\<versionnumber></versionnumber></productname>					
	Documents folder A standard folder for application-specific files that are used by the current user.					
	%USERPROFILE%\Docu	<pre>ments\dSPACE\<productname>\<versionnumber></versionnumber></productname></pre>				
	Local Program Data f program data that is us	older A standard folder for application-specific ed by the current user.				
	%USERPROFILE%\AppD <productname></productname>	ata\Local\dSPACE\ <installationguid>\</installationguid>				
Accessing dSPACE Help and PDF files	After you install and de documentation for the files.	crypt Windows-based dSPACE software, the installed products is available in dSPACE Help and as PDF				
	dSPACE Help (local)	You can open your local installation of dSPACE Help:				
	 On its home page via 	Windows Start Menu				
	 On specific content u 	ising context-sensitive help via F1				
	PDF files You can ac opens on the first page	ccess PDF files via the 🛃 icon in dSPACE Help. The PDF				
	dSPACE Help (Web) access the Web version	Independently of the software installation, you can of dSPACE Help at https://www.dspace.com/go/help.				
	To access the Web versi For more information o https://www.dspace.co	ion, you must have a <i>mydSPACE</i> account. n the mydSPACE registration process, refer to m/faq?097.				

Basics on CodeMeter Licensing Technology

Objective	As of dSPACE Release 2017-B, dSPACE uses the CodeMeter licensing tech from Wibu-Systems for protecting dSPACE software.					
Where to go from here	Information in this section	Information in this section				
	Introduction to CmContainers	9				
	Basics on License Management					
	Validity of CodeMeter Licenses	15				
	Methods for Accessing CmContainers					
	Basics on Adding Ticket IDs	21				
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	Compatibility with Earlier Releases	24				

Introduction to CmContainers

Basics on CmContainers	CmContainers are basic components of the CodeMeter licensing technology, and the license information is stored in them. Each CmContainer can contain multiple licenses. A CmContainer can store licenses of different license types, for example, single-user licenses and floating network licenses.		
	A CmContainer can be a CmDongle (hardware-based) or a CmActLicense (software-based). Thus, license information for all dSPACE products and versions is no longer distributed over many files on your PC, but stored in one license container.		
	CmDongle Hardware-based variant of the CodeMeter protection and licensing technology. The complete license information is stored on a smart card		

chip in the CmDongle. With CmDongles, you can move the license information between PCs by plugging the dongle into the PC you want to use. License files are no longer needed.

CmDongles are available in different variants. The one provided by dSPACE is called CmStick. This variant is not a mass storage device. CmSticks are configured as human interface devices (HID). It is not possible to read or write arbitrary information. Therefore the CmSticks can be considered safe. You can even use them in restricted areas and with restricted PCs where standard USB stick mass storage devices are not permitted.

CmActLicense Software-based variant of the CodeMeter protection and licensing technology. CmActLicense containers are bound to a specific PC or hardware. They cannot be transferred to another system. A CmActLicense container can be, for example, one of the following variants: dSPACE Activation Container, dSPACE Borrow Container, dSPACE Hardware Container.

dSPACE Activation Container A specific variant of a software-based CmContainer. dSPACE Activation Containers can be used to store floating network licenses in them.

dSPACE Borrow Container A specific variant of a software-based CmContainer. You can borrow floating network licenses from a CmContainer on a dSPACE License Server in a dSPACE Borrow Container.

dSPACE Hardware Container A specific variant of a software-based CmContainer. dSPACE Hardware Containers are stored on and bound to a specific dSPACE hardware system.

License information in CmContainers A license entry in a CmContainer can be viewed as a data record with various entries, such as the license name, license

) dSPACE Installation Manager						
Help						
hop	1					
Installations MATLAB Extensions Diag	nostics	Licensing				
License Overview CritContainer License Adminis	tration					
This page displays the available dSPACE licenses. It disp you depends on the configuration of the Code Meter run	lays local l ntime . Lice	icenses and can also inses located on dSP	o display licenses (o ACE hardware can	nly FNL) that are located on lice also be displayed.	ense servers in your local area n	etwork. Which remote licenses are available to
License Name	Location	Maintenance End	CmContainer	CmContainer Name	CmContainer Type	Expiration Date
130-1035942853						
VEOS - Virtual LIN	Local	30.12.2021	130-1035942853	dSPACE Activation Container	dSPACE Activation Container	31.12.2021
VEOS - Virtual ECU	Local	30.12.2021	130-1035942853	dSPACE Activation Container	dSPACE Activation Container	31.12.2021
VEOS - Virtual CAN	Local	30.12.2021	130-1035942853	dSPACE Activation Container	dSPACE Activation Container	31.12.2021
VEOS - Base	Local	30.12.2021	130-1035942853	dSPACE Activation Container	dSPACE Activation Container	31.12.2021
130-181405216						
ConfigurationDesk - Implementation Version (100)	Local	30.12.2021	130-181405216	dSPACE Activation Container	dSPACE Activation Container	31.12.2021
ControlDesk Bus Navigator Module	Local	30.12.2021	130-181405216	dSPACE Activation Container	dSPACE Activation Container	31.12.2021
ControlDesk ECU Diagnostics Module	Local	30.12.2021	130-181405216	dSPACE Activation Container	dSPACE Activation Container	31.12.2021
ControlDesk ECU Interface Module	Local	30.12.2021	130-181405216	dSPACE Activation Container	dSPACE Activation Container	31.12.2021
ControlDesk	Local	30.12.2021	130-181405216	dSPACE Activation Container	dSPACE Activation Container	31.12.2021
ConfigurationDesk - Implementation Vers. MultiCore	Local	30.12.2021	130-181405216	dSPACE Activation Container	dSPACE Activation Container	31.12.2021
ConfigurationDesk - Implementation Version (300)	Local	30.12.2021	130-181405216	dSPACE Activation Container	dSPACE Activation Container	31.12.2021
ConfigurationDesk - Implementation Version (200)	Local	30.12.2021	130-181405216	dSPACE Activation Container	dSPACE Activation Container	31.12.2021
ConfigurationDesk - Implementation Version (1000)	Local	30.12.2021	130-181405216	dSPACE Activation Container	dSPACE Activation Container	31.12.2021
ControlDesk - Operator Version	Local	30.12.2021	130-181405216	dSPACE Activation Container	dSPACE Activation Container	31.12.2021
3-3582494						
ControlDesk Bus Navigator Module	Local	27.05.2018	3-3582494	dSPACE-Test	CmDongle	n/a
ControlDesk	Local	27.05.2018	3-3582494	dSPACE-Test	CmDongle	n/a
ControlDesk - Operator Version	Local	27.05.2018	3-3582494	dSPACE-Test	CmDongle	n/a
Installation Manager - Extended Admin	Local	30.12.2021	3-3582494	dSPACE-Test	CmDongle	n/a
Group by: CmContainer Show only local items: Show items from dSPACE hardware: dSPACE Hardware Show only items which expire soon: Configure Notifications Delete Expi						
eady						

type, license quantity, and maintenance end date. dSPACE Installation Manager shows this information as follows:

Supported license types

dSPACE Release 2024-A supports single-user licenses and floating network licenses. Both are based on the CodeMeter licensing technology.



As shown above, dSPACE Release 2024-A provides single-user licenses only on CmDongles. Floating network licenses are typically stored in CmActLicense containers, but you can also store floating network licenses on CmDongles. In case of a defect or a planned upgrade of the license server, the CmDongle only needs to be plugged into the new license server. You can immediately work with the licenses again.

Limitation for using single-user licenses If you use a PC with a Windows Server operating system, for example, Windows Server 2019, and you want to work with dSPACE software on this PC using Microsoft Remote Desktop Connection, you have to use a floating network license to activate license-protected software. Single-user licenses are not supported in this case.

Basics on License Management

License management tools	The CodeMeter Runtime software provides the basic functionality of the CodeMeter licensing technology. dSPACE Installation Manager is based on CodeMeter Runtime and is the central dSPACE tool for license management. It features almost all tasks required for handling licenses, for example, to activate licenses. CodeMeter tools from Wibu-Systems are required only for certain tasks, for example, setting up a license server and connecting license clients to the server. CodeMeter software and dSPACE Installation Manager are installed automatically with dSPACE software installations. Furthermore, the tools can be downloaded separately from the dSPACE website.				
License management via database	License activation, license updates and deactivation are carried out via dSPACE Installation Manager in combination with a database (dSPACE License Central) on the basis of tickets.				
	PC				

CmDongle or CmActLicense

dSPACE License Central is hosted by dSPACE GmbH and is secured against unauthorized access by a web gateway.

Ticket and ticket ID License handling, for example, license activation, uses a ticket-based system. Depending on your order, dSPACE specifies the attributes for each license and provides this information to the database. dSPACE License Central then generates a ticket ID for each license.

The ticket ID is a unique alphanumeric string of characters. The ticket ID of a license remains unchanged as long as the license exists, but the license information related to it can be updated, for example, in case the maintenance end date of a license is extended with an SMS order.

Ticket group and ticket group ID A ticket group combines multiple tickets based on your purchase order. For example, a ticket group combines tickets that dSPACE expects to be activated in one CmContainer. The ticket group ID represents all the tickets in the group. You can also clear individual tickets to exclude them from activation, for example.



License overview After you ordered dSPACE products, dSPACE sends a license overview as PDF file via e-mail. This overview lists the required ticket IDs for the purchased products as follows:

2023-09-08

2023-09-08

License Overview



Sales order Purchase order Your Ref.	ALIERONA REALIERONA ALIERONA ALIERONA			Date: Delive	ery Date:	2023-09-07 2023-09-08			
CmContainer: #L	icenses are not activated yet								
TicketGroup 🛛 🛲	NAMES AND ADDRESS OF TAXABLE	8-48							
Order number	Product	Ticket ID	Licensing Model	License Quantity	Maintenance Date	Expiration Date	Usage Period	End User	Deliv Date
CCPPPC	Microtec C PowerPC Cross Compiler	1940-0467-036-4404-046	Local	1,00	2024-03-31			Name of Contractor	2023-0
CONTROLDESK	ControlDock	the second se	Local	1.00	2024 02 21			the second se	2022 0

Network

4.00

1,00

party and a second party state.

Local

License activation

ControlDesk Signal Editor Module

Platform API Package

CONTROLDESK_SE

PLATFORM_API

The software installation process is now license-independent. Thus, after software installation, you have to activate licenses to run license-protected dSPACE software.

2024-03-31

2024-03-31



To start the activation process, you have to enter the ticket IDs that you received from dSPACE via e-mail. During activation, data is transferred between dSPACE Installation Manager and dSPACE License Central.



You can activate licenses online, which requires an Internet connection between the Installation Manager and dSPACE License Central, or offline by means

of manual file transfer. dSPACE strongly recommends to use online activation whenever possible.

	Note
	It is recommended to activate a maximum of 50 licenses in one CmContainer. If you have a larger number of licenses, distribute them over several CmContainers. A higher number of licenses in one CmContainer can lead to long run-times for the activation or update of the licenses.
	The workflow differs depending on how dSPACE Installation Manager can access the CmContainer. Refer to License Activation on page 55.
License updates	License updates are used if the license information of an already activated license was updated by dSPACE. This applies, for example, if the maintenance end date of your dSPACE product is extended, because you purchased a Software Maintenance Service (SMS) contract.
	dSPACE informs you when the SMS order has been processed for a certain CmContainer number. You only have to provide access to the CmContainer (for example, connect the corresponding CmDongle), select it in dSPACE Installation Manager, and start the update. dSPACEe Installation Manager then automatically performs the update. You do not have to send files by e-mail to dSPACE, for example, with ticket IDs.
	If you do not have Internet access, you can use an offline update method. However, dSPACE does not recommend this method, because it is inconvenient and time-consuming.
	The workflow differs depending on how dSPACE Installation Manager can access the CmContainer. Refer to License Update on page 81.
License borrowing	You can borrow floating network licenses from a CmContainer on a dSPACE License Server to a dSPACE Borrow Container (software-based CmContainer) or to a CmDongle.
	License borrowing offers the following advantages:
	 A borrowed license does not require access to the source CmContainer while you are working with it. You can use it on a PC that is not connected to the dSPACE License Server.
	 A borrowed license is treated like an exclusive single-user license. This means that it is blocked for other users of the floating network license and guaranteed to be available on the PC with the dSPACE Borrow Container or the target CmDongle.
	Refer to License Borrowing on page 113.
Moving activated licenses	You can move activated licenses from one CmContainer to another CmContainer, for example, if a changed use case requires a redistribution of activated licenses between different CmContainer.

Refer to Use Cases and Workflows for Moving Licenses on page 129.

Downloading license files to install dSPACE Releases earlier than dSPACE Release 2017-B	If you own a software product from dSPACE Release 2017-B or later and you want to install and use a version of this product from a dSPACE Release earlier than 2017-B, you must have legacy license files and a CodeMeter CmContainer with activated licenses.
	As of October 2019, you can use dSPACE Installation Manager 5.4 up to dSPACE Installation Manager 22.3 to download license files specifically prepared on the basis of the licenses you purchased. Legacy licensing using CodeMeter licenses maps former product versions to an available license so that you can install and use products from dSPACE Release 7.4 (2012-B) up to and including dSPACE Release 2017-A.
	Discontinuation of legacy licensing technologies As of dSPACE Release 2023-A, dSPACE Installation Manager no longer supports legacy licensing technologies (WibuKey from Wibu-Systems for dongle licenses and FlexNet from Flexera for floating network licenses). This means:
	 dSPACE Installation Manager 23.1 (on dSPACE Release 2023-A) and later will support only the CodeMeter licensing technology introduced with dSPACE Release 2017-B.
	 dSPACE Installation Manager 23.1 and later no longer provides the file download (keys.dsp and license.dsp) for legacy licensing based on CodeMeter licenses.
	 Installing dSPACE Release 2023-A or later on the same PC as dSPACE Release 2017-A or earlier is no longer supported and therefore not recommended.
	 As of dSPACE Release 2023-A, dSPACE License Manager (Legacy) is no longer shipped and installed with the dSPACE Installation Manager. The associated command line utilities are also discontinued, including in particular the IMLicUtil.exe and the InstallationReporter.exe utilities.
	 If you still need to use the legacy licensing method, you must use the latest version of dSPACE Installation Manager that supports this technology. This is dSPACE Installation Manager 22.3. You can download dSPACE Installation Manager 22.3 from https://www.dspace.com/go/IM.

Validity of CodeMeter Licenses

Introduction	CodeMeter licenses are Release-independent and can be valid for various dSPACE Releases. Therefore, license handling becomes easier, especially for customers with a Software Maintenance Service (SMS) contract.			
Release-independent license validity	License validity is not bound to a specific dSPACE Release. Release-dependent license.dsp files are not used anymore.			
	Therefore, you can install a new dSPACE Release as soon as it is available. Each license-protected software product is stamped with its release date. You can use			

	published (released) before the maintenance end date of the license.
Release date 31.10.2018	Release dateRelease dateRelease dateRelease date30.04.201931.10.201930.04.202031.10.202030.04.2021
Release 2018-B Relea	ase 2019-A Release 2019-B Release 2020-A Release 2020-B Release 2021-A
25.11.2018 (delivery date)	25.05.2019 24.11.2020
Initial maintena	ance Extension by SMS contract
	Maintananco
	Maintenance
	Maintenance end date The maintenance end date limits the usable versions of a software product. All product versions released before the maintenance end date can be executed. The initial maintenance ends six months after the delivery date of the product but can be extended by purchasing SMS contracts.
	SMS end date The SMS end date defines the extension by the optional SMS contract for a specific software product. The SMS end date equals the maintenance end date of the related license. It thus permits the execution of newer software versions.
Validity of evaluation licenses	To evaluate or to test dSPACE software, dSPACE provides evaluation licenses. There are two forms of evaluation licenses related to the evaluation time:
	 Licenses with a fixed expiration date.
	You can use the protected software up to a fixed date, for example, up to March 1, 2020.
	 Licenses with a fixed usage period.
	The usage period, for example, 60 days, begins with the first use of the activated license from the related dSPACE product and ends after the usage period has expired.
Viewing license validity	Depending on your order, dSPACE Installation Manager displays certain validity entries for each activated license. For example, you can view the maintenance end date, the expiration date of the license, or information on the usage period (duration, start and end date). Refer to How to Show Available Licenses and Their Attributes on page 40.
Extending license validity	There are certain use scenarios, where the license validity must be extended. For example, if you purchase an SMS contract for the first time, if you want to extend an existing SMS contract, or if you want to extend the evaluation time.

the delivered initial Release and in addition every Release of the product that is published (released) before the maintenance end date of the license.

In these cases, dSPACE provides license updates to make the modifications available in your CmContainer. Refer to License Update on page 81.

Methods for Accessing CmContainers

Motivation

dSPACE Installation Manager provides several methods to access CmContainers from a PC. It is possible to manage licenses regardless of whether the PC with the CmContainer has an Internet connection.

Recommended method

Online activation with local access to the CmContainer is the recommended way to activate, update, and deactivate licenses.

OverviewThe following table provides an overview of the possible ways to access
CmContainers and the actions that are supported for each license type.

Note

License Type	Action	Access of dSPACE Installation Manager to CmContainer						
		Local Access	LAN Access	dSPACE Hardware Access	File-Based Access	File-Based Remote Access		
Single-user	Activate licenses	1	✓ ¹⁾		1	1		
licenses	Update licenses	1	✓ ¹⁾		1	1		
	Deactivate licenses	1	✓ ¹⁾		1	1		
Floating network	Activate licenses	1	✓ ¹⁾		1	1		
licenses	Update licenses	1	✓ ¹⁾		1	1		
	Deactivate licenses	1	✓ ¹⁾		1	1		
Hardware licenses	Activate licenses			1	1	1		
	Update licenses		_	1	1	1		
	Deactivate licenses							

 LAN access is disabled by default. For details, refer to LAN access to CmContainer on page 18.

Local access to CmContainer

dSPACE Installation Manager must be installed on the PC with direct access to the CmContainer. dSPACE Installation Manager lists the CmContainers it finds on the PC (CmActLicense containers) and that are connected to it (CmDongles).



dSPACE Installation Manager has an Internet connection to dSPACE License Central.

LAN access to CmContainer

You can use the LAN access method if one of the following cases applies:

- The PC with dSPACE software and a CmContainer does not have an Internet connection but is connected to other PCs via LAN. For example, PCs used in HIL test benches.
- A PC configured as a dSPACE License Server uses a non-Windows operating system and can therefore not run dSPACE Installation Manager.

dSPACE Installation Manager must be installed on a PC that is connected to the LAN. This PC must also be connected to dSPACE License Central via the Internet. dSPACE Installation Manager can then access CmContainers via the LAN connection and automatically performs the required actions and the data exchange with dSPACE License Central online.

Note

LAN access is disabled by default.

To protect CmContainers on PCs in a LAN from unwanted actions (license activation, license update, license deactivation), LAN access is disabled by default. To use the LAN access feature, a local, activated InstallationManager – Extended Admin license must be available on the PC with Installation Manager. Contact your local dSPACE sales representative or contact dSPACE Support (www.dspace.com/go/supportrequest).



dSPACE hardware access

You have to use this access method when a license must permanently enable license-protected features directly on a dSPACE hardware system, for example, the advanced feature package for the MicroLabBox II.

dSPACE Installation Manager must be installed on a PC that is connected to the dSPACE hardware. This PC must also be connected to dSPACE License Central via the Internet. dSPACE Installation Manager can then access the dSPACE Hardware Container on the dSPACE hardware via LAN connection and automatically performs the required actions and the data exchange with dSPACE License Central online.



File-based access to CmContainer

You have to use this access method if dSPACE Installation Manager cannot access the CmContainer at all.

On the PC with the CmContainer, CodeMeter Control Center can be used to create the files required for license activation, update, and deactivation. These files must be transferred between the PC and the PC on which dSPACE Installation Manager is installed. Do this with a USB stick or via a network folder, for example. On another PC, dSPACE Installation Manager must be installed and connected to dSPACE License Central via the Internet. dSPACE Installation Manager exchanges data (reads and sends the activation files) with dSPACE License Central online.

Manual transfer of activation files



Data exchange via Internet

dSPACE

License

Central

As shown above, CodeMeter Control Center can be started on a remote PC to generate the files required for license activation. These files must be transferred between the remote PC and an administrator PC. On the administrator PC, dSPACE Installation Manager reads and sends activation files from the remote PC. dSPACE Installation Manager also exchanges data with dSPACE License Central via the Internet.

Basics on Adding Ticket IDs

Motivation	In most license management scenarios, for example, license activation, you have to enter or paste ticket IDs or a ticket group ID in a specific edit field to start the process. Each time you add ticket IDs in the edit field, dSPACE Installation Manager connects to dSPACE License Central, gets the current ticket information, and displays it.
Saving ticket information to file	With the Save to File functionality, you can save the displayed ticket information to an XML or CSV file. The saved information can be regarded as a snapshot. A time stamp is added to the file name.
	You can use the file for documentation purposes, or you later can import the file via the Import from File functionality. This makes it much easier to handle multiple ticket IDs.
	The following illustration shows that tickets from two ticket group IDs can be saved in one file.
Add ticket group ID A	to File \longrightarrow Import from File \longrightarrow 2017-10-27-07-40.xml
	Note

Each time you import a file, the contained ticket information is updated immediately from dSPACE License Central.

Deleting entries

Requirements for Communication				
Purpose	To communicate with dSPACE License Central (via a Web gateway), with CodeMeter tools from Wibu-Systems or other PCs in a LAN, your PC must be able to establish a TCP/IP connection.			
Communication with dSPACE License Central	To access dSPACE License Central from your PC, you need an Internet connection. dSPACE Installation Manager connects to https://licensing.dspace.de/gateways, HTTPS, Port 443.			
	Checking the Internet connection You can check the Internet connection to dSPACE License Central by entering the following address in your Edge Browser: https://licensing.dspace.de. If the Internet access to the dSPACE License Central works, the following dialog is displayed. Then, the connection also works with dSPACE Installation Manager.			

pressing the Del key.

You can delete single ticket entries from the overview by selecting the entry and





Specifying proxy settings for proxy servers If your network administrator has configured a proxy server, you must specify the appropriate proxy credentials (address, user name, password) to access the dSPACE server. Otherwise, the connection to the dSPACE server will not be possible.

To specify the proxy credentials, dSPACE Installation Manager uses the ProxySettings.json file. It is located in the ProgramFiles\dSPACE\InstallationManager/bin folder after installation of the software.

You have to enter the settings directly in the file. The following illustration shows the entries with an example of a proxy address:



- If you want to work only with the API of the dSPACE Installation Manager on your host PC and not with the GUI application: You have to enter all settings (address, user name, password) directly in the file.
- If you use the GUI application of the dSPACE Installation Manager, and you have not specified the Username and the Password: A dialog for entering the required settings appears. Refer to the following dialog.

👩 Enter Proxy Credentials	×
Username:	
Password:	
L	Cancel OK

Internal LAN communication	For LAN communication between CodeMeter software on different PCs, for example, for connections between floating network license servers and clients, a standard TCP/UDP protocol is required. The default port number is 22350, which is an officially registered port number (IANA). If needed, you can change the port number.
	For communication with CmContainers on remote PCs in a LAN, dSPACE Installation Manager uses the CodeMeter functionality. Thus, the connected PCs require the same open TCP/IP network port: 22350 (TCP and UDP).
Required open TCP/IP network ports	dSPACE Installation Manager and CodeMeter licensing software require the following open TCP/IP network ports:
	 22350 (TCP and UDP) for communication in a LAN network (if not changed from the default setting).
	 22352 (TCP and UDP): To access CodeMeter WebAdmin via http.
	 22353 (TCP and UDP): To access CodeMeter WebAdmin via https.

Compatibility with Earlier Releases

Compatibility of dongles	CmDongles shipped for dSPACE Release 2017-B and later support CodeMeter licensing without modifications.				
	Note All CmDongles (Rev. 3-xxxx), including those shipped with dSPACE Release 2017-B and later, can still be used with dSPACE Releases 2017-A and earlier, because they can emulate WibuKey dongles.				
	As of dSPACE Release 2023-A, dSPACE Installation Manager no longer supports migration from old dongles (delivered for dSPACE Release 2017-A and earlier) to currently delivered CmDongles.				
	If you still have an old dongle that needs to be migrated to use dSPACE Release 2017-B or later, the following applies: • You are still using a WibuKey dongle (Type 1): Migration is no longer possible.				
	 A dongle exchange by dSPACE is required. For more information, refer to http://www.dspace.com/go/DongleReplacement. You are still using a first-generation CmDongle (Type 2), with serial number starting with 2-xxxx and white connector: Migration is no longer possible. A dongle exchange by dSPACE is required. For more information, refer to http://www.dspace.com/go/DongleReplacement. 				
	• You are still using a CmDongle (Type 3), with serial number starting with 3-xxxx and old firmcode: Migration is required by using an earlier version of dSPACE Installation Manager (from 5.0 to 22.3). For the download of dSPACE Installation Manager 22.3, refer to https://www.dspace.com/go/IM.				
Discontinuation of legacy licensing technologies	 As of dSPACE Release 2023-A, dSPACE Installation Manager no longer supports legacy licensing technologies (WibuKey from Wibu-Systems for dongle licenses and FlexNet from Flexera for floating network licenses). This means: dSPACE Installation Manager 23.1 (on dSPACE Release 2023-A) and later will support only the CodeMeter licensing technology introduced with dSPACE Release 2017-B. 				
	 dSPACE Installation Manager 23.1 and later no longer provides the file download (keys.dsp and license.dsp) for legacy licensing based on CodeMeter licenses. 				
	 Installing dSPACE Release 2023-A or later on the same PC as dSPACE Release 2017-A or earlier is no longer supported and therefore not recommended. As of dSPACE Release 2023 A dSPACE Lisense Manager (Longer) is no longer. 				
	 As of uSPACE Release 2023-A, USPACE License Manager (Legacy) is no longer shipped and installed with the dSPACE Installation Manager. The associated command line utilities are also discontinued, including in particular the IMLicUtil.exe and the InstallationReporter.exe utilities. 				
	 If you still need to use the legacy licensing method, you must use the latest version of dSPACE Installation Manager that supports this technology. This is dSPACE Installation Manager 22.3. You can download dSPACE Installation Manager 22.3 from https://www.dspace.com/go/IM. 				

Use Cases for Starting with CodeMeter Licensing with dSPACE Release 2024-A

Where to go from here	Information in this section	
	Use Case 1: New Customer or Starting with New CmDongle	26
	Use Case 2: Starting with WibuKey Dongle	28
	Use Case 3: Starting with Old CmDongles (Rev. 2-xxxx)	29
	Use Case 4: Starting with Old CmDongles (Rev. 3-xxxx)	30
	Use Case 5: Updating the Maintenance End Date of Activated Licenses (SMS Contracts)	31
	FNL Use Case 1: New Customer or Starting with a New Floating Network License Installation	33
	FNL Use Case 2: Migrating Floating Network Licenses	34
	FNL Use Case 3: Updating the Maintenance End Date of Activated Licenses (SMS Contracts)	35

Use Case 1: New Customer or Starting with New CmDongle

Your use case

Use Case	Current Dongle	Dongle Provided by dSPACE	License Overview ¹⁾	Dongle Migration/Dongle Exchange	Instructions
1	-	CmDongle Type 4 Serial number Or CmDongle Type 7 Serial number	File name pattern: LicenseOverview_ <xxx> <xxx> matches your purchase order number. One pdf document is sent per purchase order number.</xxx></xxx>	-	 Required steps: Install dSPACE Release 2024-A Activate licenses Decrypt encrypted software archives For details, see below.

¹⁾ As of July 2023, the license overview is provided as a PDF file and no longer as an Excel sheet.

Introduction videos	 dSPACE has created videos to explain the CodeMeter licensing technology. The following videos address your use case: Installing dSPACE Software Licensing for dSPACE Products: An Overview Activating Licenses and Decrypting Software Archives
License Overview	dSPACE has sent you an e-mail with a PDF file, called License Overview. You received one PDF file per purchase order. The PDF files provide the license information and contain ticket IDs for the Release 2024-A licenses. There is one ticket ID for each software product.
	The file name of the License Overview resembles the number of your purchase order as closely as Windows file name conventions permit. The licenses can be activated on any CmDongle. With your shipment, you may receive one or more CmDongles Type 7, but you may also activate the new licenses on existing CmDongles Type 7 or CmDongles Type 4 from an earlier delivery.

The License Overview lists the required ticket IDs for the purchased products as follows:

_ _ _

License Overview				dSPACE					
Sales order Purchase order Your Ref.			Date: Delivery Date:		2023-09-07 2023-09-08				
CmContainer: #	CmContainer: #Licenses are not activated yet								
TicketGroup A	TicketGroup ACT-								
Order number	Product	Ticket ID	Licensing Model	License Quantity	Maintenance Date	Expiration Date	Usage Period	End User	Delivery Date
CCPPPC	Microtec C PowerPC Cross Compiler	CARLON CONTRACTOR	Local	1,00	2024-03-31			Superior Secold	2023-09-08
CONTROLDESK	ControlDesk	NAME AND ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS ADDR	Local	1,00	2024-03-31			inequal locality	2023-09-08
CONTROLDESK_SE	ControlDesk Signal Editor Module	0011034100-045003	Local	1,00	2024-03-31			Separate Service	2023-09-08
PLATFORM API	Platform API Package	States and second states and	Local	100	2024-03-31			the second state of the	2023-09-08

Getting started

Tip

dSPACE recommends using the same PC for license activation as you use for installing and running dSPACE software.

If you want to set up a separate PC only for license activation, the PC must meet the following requirements:

- Windows 10 (64-bit version only) or Windows 11
- At least dSPACE Installation Manager 24.1, installed either together with dSPACE Release 2024-A or downloaded from http://www.dspace.com/go/IM.
- An Internet connection for accessing dSPACE License Central must exist (might require appropriate proxy settings).
- One free USB port

Note

If you want to install dSPACE software (ControlDesk, TargetLink, etc.) on the same PC, the PC must meet additional requirements. Refer to Appendix: System Requirements (Installing dSPACE Software III).

Workflow steps

1. *Optional:* Install dSPACE Release 2024-A by using a downloaded image or the distributed DVDs. Refer to How to Install dSPACE Software (Installing dSPACE Software).

Install the product sets containing the products you want to use and for which you have licenses.

- 2. *Mandatory:* Activate CodeMeter licenses on the CmDongle. Refer to How to Activate Licenses (Local Access to CmContainer) on page 60.
- 3. *Optional:* To use software of dSPACE Release 2024-A, decrypt the encrypted parts of the installed software products by using the CmDongle with the CodeMeter licenses you just activated. Refer to How to Decrypt Encrypted Archives of dSPACE Software Installations (Managing dSPACE Software Installations Impl).
- 4. *Optional:* Verify that Release 2024-A works with the CmDongle.

Use Case 2: Starting with WibuKey Dongle

Your use case

Use Case	Current Dongle	Dongle Provided by dSPACE in 2018	License Overview Provided by dSPACE in 2017	Dongle Exchange by dSPACE	Instructions
2	WibuKey dongle Type 1	The WibuKey dongle (Type 1) cannot be used for CodeMeter licensing. Therefore dSPACE has already sent you a CmDongle Type 6 or Type 7 via mail. CmDongle Type 7 Serial number Or CmDongle Type 7 Serial number As of dSPACE Release 2023- A, these CmDongles can no longer be used for migration. Send them back to dSPACE together with the WibuKey dongle when exchanging the old dongle.	File name pattern: WKID-xxxxx.xlsx As of dSPACE Release 2023-A, this delivered license overview is obsolete. Therefore, delete the file. A new license overview is delivered as PDF file with the new CmDongle Type 7 when exchanging the dongle.	As of dSPACE Release 2023-A, dSPACE Installation Manager no longer supports migration from WibuKey dongles (Type 1) to currently delivered CmDongles. Therefore a dongle exchange by dSPACE is required. With the dongle exchange you will receive a CmDongle Type 7 and a new license overview as PDF file from dSPACE. CmDongle Type 7 Serial number File name pattern: LicenseOverview_ <xxx></xxx>	Required steps: Exchange the WibuKey dongle. Install dSPACE Release 2024-A Activate licenses Decrypt encrypted software archives For details, see below.

Exchanging the WibuKey dongle	You have been using a WibuKey dongle (Type 1). This type of dongle cannot be used for CodeMeter licensing.		
	As of dSPACE Release 2023-A, dSPACE Installation Manager no longer supports migration from WibuKey dongles (Type 1) to currently delivered CmDongles. A dongle exchange by dSPACE is required. For more information, refer to http://www.dspace.com/go/DongleReplacement.		
Further instruction details	After dongle exchange, continue with Use Case 1: New Customer or Starting with New CmDongle on page 26.		

Use Case 3: Starting with Old CmDongles (Rev. 2-xxxx)

Your use case	
---------------	--

Use Case	Current Dongle	Dongle Provided by dSPACE in Q1/2017	License Overview	Dongle Exchange by dSPACE	Instructions
3	CmDongle Type 2 License ID (dongle number)	The CmDongles Type 2 can no longer be used for CodeMeter licensing. Therefore dSPACE has already sent you a CmDongle Type 5 or Type 7 via mail. CmDongle Type 5 or CmDongle Type 7 Serial number As of dSPACE Release 2023- A, these CmDongles can no longer be migrated. Send them back to dSPACE together with the CmDongle Type 2 when exchanging the dongle.		As of dSPACE Release 2023-A, dSPACE Installation Manager no longer supports migration from CmDongles (Type 2) to currently delivered CmDongles. Therefore a dongle exchange by dSPACE is required. With the dongle exchange you will receive a CmDongle Type 7 and a new license overview file from dSPACE. CmDongle Type 7 Serial number File name pattern: LicenseOverview_ <xxx></xxx>	 Required steps: Exchange the CmDongle Type 2. Install dSPACE Release 2024- A Activate licenses Decrypt encrypted software archives For details, see below.

Exchanging the CmDongle	You are still using a first-generation CmDongle (Type 2), with serial number starting with 2-xxxx and white connector: Migration is no longer possible. A dongle exchange by dSPACE is required. For more information, refer to http://www.dspace.com/go/DongleReplacement.
Further instruction details	After dongle exchange, continue with Use Case 1: New Customer or Starting with New CmDongle on page 26.

Use Case 4: Starting with Old CmDongles (Rev. 3-xxxx)

Your use case

Use Case	Current Dongle	Dongle Provided by dSPACE	License Overview ¹⁾	Dongle Migration	Instructions
4	CmDongle Type 3	-	File name pattern: LicenseOverview_ <xxx> <xxx> matches your purchase order number. One pdf document is sent per purchase order number.</xxx></xxx>	As of dSPACE Release 2023-A, dSPACE Installation Manager no longer supports migration from old dongles (delivered for dSPACE Release 2017- A and earlier) to currently delivered CmDongles.	 Required steps: Migrate license information. Install dSPACE Release 2024-A Activate licenses Decrypt encrypted software archives For details, see below.

¹⁾ As of July 2023, the license overview is provided as a PDF file and no longer as an Excel sheet.

Migrating the old CmDongles (Rev. 3-xxxx)	You are still using an old CmDongle (Type 3), with serial number starting with 3-xxxx and old firmcode. This type of dongle must be migrated so you can use with the CodeMeter technology. After you migrate the license information, you can activate the licenses for dSPACE Release 2024-A on the CmDongle.					
	For migrating the CmDongle you have to use an earlier version of dSPACE Installation Manager (from 5.0 to 22.3). For the download of dSPACE Installation Manager 22.3, refer to https://www.dspace.com/go/IM. For migration instructions, refer to the documentation of the dSPACE Installation Manager version used.					
Further instruction details	After dongle migration, continue with Use Case 1: New Customer or Starting with New CmDongle on page 26.					

Use Case 5: Updating the Maintenance End Date of Activated Licenses (SMS Contracts)

Your use case

Use Case	Current Dongle	Dongle Provided by dSPACE	License Overview ¹⁾	Dongle Migration	Instructions
5	CmDongle Type 3 License ID (dongle number) - Or - CmDongle Type 4 Serial number - Or - CmDongle Type 7 Serial number	-	File name pattern: LicenseOverview_ <xxx> <xxx> matches your purchase order number. One pdf document is sent per purchase order number.</xxx></xxx>	-	Required steps: • Update licenses For details, see below.

¹⁾ As of July 2023, the license overview is provided as a PDF file and no longer as an Excel sheet.

If you use a CmDongle Type 3, Type 4 or Type 7 and the CodeMeter licenses were already activated on a CmDongle, you can easily update licenses, for example, by entering a Software Maintenance Service (SMS) contract to extend the maintenance end date of the licenses.

Introduction videos	dSPACE has created videos to explain the CodeMeter licensing technology. The following video addresses your use case: • Updating Licenses
License Overview	dSPACE has sent you an e-mail with a PDF file, called License Overview. You received one PDF file for each purchase order (containing all related CmContainer) for which you ordered the SMS.
	The files are sent only to document the maintenance end update. The ticket IDs are the same as those used when initially activating the licenses. If you did not

are the same as those used when initially activating the licenses. If you did not purchase SMS for all licenses on a CmDongle, the License Overview shows only the tickets of the licenses that can be updated.

The file name of the License Overview resembles the number of your purchase order as closely as Windows file name conventions permit.

The License Overview lists the required ticket IDs for the licenses for which you ordered the SMS with the new maintenance end as follows:

License Overv	<i>r</i> iew	dS	PACE	
Sales order Purchase order Your Ref.	1000	Date: Delivery Date:	2023-09-07 2021-12-16	

CmContainer: 3-5441560

CmContainer: 3-5441561

TicketGroup AC	T-(18 C							
Order number	Product	Ticket ID	Licensing Model	License Quantity	Maintenance Date	Expiration Date	Usage Period	End User	Delivery Date
BUS_MANAGER	Bus Manager		Local	1,00	2023-06-30			and the second s	2021-12-16
CFD_I_100	ConfigurationDesk for 100 Functions		Local	1,00	2023-06-30			ter .	2021-12-16

TicketGroup ACT-I									
Order number	Product	Ticket ID	Licensing Model	License Quantity	Maintenance Date	Expiration Date	Usage Period	End User	Delivery Date
AUD_BASIC	AutomationDesk Basic Version	NO 1997 NO 1997 NO. 1 19	Local	1,00	2023-06-30			land .	2021-12-16
CONTROLDESK	ControlDesk		Local	1,00	2023-06-30			-	2021-12-16
CONTROLDESK_BNV	ControlDesk Bus Navigator Module		Local	1,00	2023-06-30			Sec.	2021-12-16

Getting started

Tip

dSPACE recommends using the same PC for license updates as you use for installing and running dSPACE software.

If you want to set up a separate PC only for license updates, the PC must meet the following requirements:

- Windows 10 (64-bit versions only) or Windows 11
- At least dSPACE Installation Manager 24.1, installed either together with dSPACE Release 2024-A or downloaded from http://www.dspace.com/go/IM.
- An Internet connection for accessing dSPACE License Central must exist (might require appropriate proxy settings).
- One free USB port

Note

If you want to install dSPACE software (ControlDesk, TargetLink, etc.) on the same PC, the PC must meet additional requirements. Refer to Appendix: System Requirements (Installing dSPACE Software 🛄).

Workflow steps

1. Mandatory: Update CodeMeter licenses on the CmDongle. Refer to How to Update Licenses (Local Access to CmContainer) on page 86.

FNL Use Case 1: New Customer or Starting with a New Floating Network License Installation

Your use case

Use Case	License Overview ¹⁾		Instructions					
FNL 1	File name pattern: LicenseOverview_ <xxx> <xxx> matches your purcha pdf document is sent per p</xxx></xxx>	ase order number. One urchase order number.	 Required steps on the license server: Configure one PC in the network as the dSPACE License Serve Activate licenses on the server Required steps on each license client: Install dSPACE Release 2024-A on dSPACE License Clients Decrypt encrypted software archives For details, see below. 					
		¹⁾ As of July 2023, the sheet.	license overview is provic	led as a PDF file and no longer as an Excel				
Introduct	ion videos	dSPACE has created v following video addre	videos to explain the C esses your use case:	odeMeter licensing technology. The				
		 Installing dSPACE S 	oftware					
		 Licensing for dsrAt 	LE FIOUUCIS. All Overvi	lew				
License Overview		dSPACE has sent you an e-mail with a PDF file, called License Overview. You received one PDF file per purchase order. The PDF files provide the license information. They contain ticket IDs for the Release 2024-A licenses. There is one ticket ID for each software product.						
		The file name of the order as closely as Wi	License Overview reser	nbles the number of your purchase entions permit.				
		The License Overview follows:	lists the required ticke	et IDs for the purchased products as				
License O	verview		dSI	PACE				
Sales order Purchase order Your Ref.	Au-Int-Seller Gultaner funkasionale Au-Int- Subarus Talentus		Date: Delivery Date:	2023-09-12 2021-01-14				

CmContainer: #Licenses are not activated yet

TicketGroup AC	roup ACT-								
Order	Product	Ticket ID	Licensing	License	Maintenance	Expiration	Usage	End User	Delivery
TAS	TargetLink AUTOSAR Module	2010/02/02/02/02/02/02/02/02/02/02/02/02/02	Network	4,00	2023-02-28	Date	Period	No. Solution	2021-01-14
TBS	TargetLink Base Suite		Network	4,00	2023-02-28			Section of the	2021-01-14

An important attribute of floating network licenses is the license quantity, which defines the number of licenses that can be used on client PCs at the same time. Floating network licenses can have a quantity ≥ 1 .

Getting started	Installing dSPACE License Clients The PC must meet system requirements so you can use dSPACE software on it. Refer to Appendix: System Requirements (Installing dSPACE Software).
	Repeat the following steps on every dSPACE License Client:
	1. <i>Mandatory:</i> Install dSPACE Release 2024-A by using a downloaded image or the distributed DVDs. Refer to How to Install dSPACE Software (Installing dSPACE Software (II)).
	Install the product sets containing the products you want to use and for which you have licenses.
	2. <i>Mandatory:</i> Add the license server to the server search list by entering the name or the IP address of the license server. Refer to How to Set up a Connection Between Client and Server on page 156.
	By default, localhost is added to the server search list during software installation to avoid unwanted network broadcasts by the CodeMeter Runtime software.
	3. <i>Mandatory:</i> To use software of dSPACE Release 2024-A, decrypt the encrypted parts of the installed software products by using the CmDongle with the CodeMeter licenses you just activated. Refer to How to Decrypt Encrypted Archives of dSPACE Software Installations (Managing dSPACE Software Installations III).
	Installing dSPACE License Server The PC that you want to configure as the dSPACE License Server, should meet the following requirements:
	 Windows 10 (64-bit version only) or Windows 11
	 An Internet connection for accessing dSPACE License Central must exist (might require appropriate proxy settings).
	 Mandatory: Install dSPACE Installation Manager 24.1, either together with dSPACE Release 2024-A or downloaded from http://www.dspace.com/go/IM.
	 Mandatory: Configure CodeMeter Runtime as the floating network server. Refer to How to Set Up the dSPACE License Server on page 153.
	3. Mandatory: Activate CodeMeter floating network licenses on the license

 Mandatory: Activate CodeMeter floating network licenses on the license server. Refer to How to Activate Licenses (Local Access to CmContainer) on page 60.

FNL Use Case 2: Migrating Floating Network Licenses

Your use case

Use Case	License Overview ¹⁾	Instructions
FNL 2	File name pattern: LicenseOverview_ <xxx></xxx>	Proceed as described in FNL Use Case 1: New Customer or Starting with a New Floating Network License Installation on page 33.

Use Case	License Overview ¹⁾		Instructions			
	<xxx> matches your purch document is sent per purc</xxx>	nase order number. One pdf hase order number.				
		¹⁾ As of July 2023, the license ov sheet.	rerview is provided as a PDF file and no longer as an Excel			
		You have been using a FlexNet floating network license server. The FlexNet licensing technology and CodeMeter licensing technology are not compatible. However, FlexNet and CodeMeter floating network servers can be hosted on the same PC at the same time.				
License Overview		dSPACE has sent you an e-ma former license.dsp, licen not needed for dSPACE Relea:	il with a PDF file, called License Overview. The se.dat and keys.dsp files are not applicable and se 2024-A.			
		The PDF files provide the license information and replace the old license files. They contain ticket IDs for the Release 2024-A licenses.				
Getting s	tarted	Continue with FNL Use Case 1 Network License Installation o	: New Customer or Starting with a New Floating n page 33.			

FNL Use Case 3: Updating the Maintenance End Date of Activated Licenses (SMS Contracts)

Your use case

Use Case	License Overview ¹⁾	Instructions
FNL 3	File name pattern: LicenseOverview_ <xxx> <xxx> matches your purchase order number. One pdf document is sent per purchase order number.</xxx></xxx>	Required steps: • Update licenses For details, see below.

¹⁾ As of July 2023, the license overview is provided as a PDF file and no longer as an Excel sheet.

If the CodeMeter licenses were already activated in a CmActLicense container or on a CmDongle, you can easily update licenses, for example, by entering a Software Maintenance Service (SMS) contract to extend the maintenance end date of the licenses.

License Overview

dSPACE has sent you an e-mail with a PDF file, called License Overview. You received one PDF file for each purchase order (containing all related CmContainer) for which you ordered the SMS.

The files are sent only to document the maintenance end update. The ticket IDs are the same as those used when initially activating the licenses. If you did not purchase SMS for all licenses in a CmContainer, the License Overview shows only the tickets of the licenses that can be updated.

The file name of the License Overview resembles the number of your purchase order as closely as Windows file name conventions permit.

The License Overview lists the required ticket IDs for the licenses for which you ordered the SMS with the new maintenance end as follows:

dSPACE

License Overview

Sales order Purchase order	NU-0129404 Number Pentrus Inter-	Date: Delivery Date:	2023-09-12 2020-11-03	
Your Ref.	whether information			

CmContainer: 130-119646119									
TicketGroup ACT-									
Order	Product	Ticket ID	Licensing	License	Maintenance	Expiration	Usage	End User	Delivery
number			Model	Quantity	Date	Date	Period		Date
XSG_UTILS_PROC_SOL	XSG Utils Processor Interface Lib	STREET, STREET, STREET, STORE	Network	2,00	2022-12-31			Real Party in the	2020-10-21

CmContainer: 130-1570630541									
TicketGroup ACT-Desc Content and the second s									
Order	Product	Ticket ID	Licensing	License	Maintenance	Expiration	Usage	End User	Delivery
number			Model	Quantity	Date	Date	Period		Date
VEOS_BASE	VEOS - Base	TOTAL STORE OF THE ADDRESS	Network	2,00	2023-12-31			Manual Station in such	2020-11-03

Getting started

Use the same PC you set up to activate the floating network licenses.

Workflow steps

1. *Mandatory:* Update CodeMeter floating network licenses. Refer to How to Update Licenses (Local Access to CmContainer) on page 86.
Showing Available Licenses, CmContainers, and Tickets

Motivation	dSPACE Installation Manager provides several overviews to show detailed information on available licenses, CmContainers, tickets and their attributes.			
Where to go from here	Information in this section			
	How to Show Available CmContainers and Their Attributes	37		
	How to Show Available Licenses and Their Attributes	40		
	How to Request and Show Ticket Information	44		
	Notifications for Expiring Licenses	48		
	How to Update the Firmware of a CmDongle	51		

How to Show Available CmContainers and Their Attributes

Objective	To view available CmContainers and their attributes, you can use dSPACE Installation Manager.
Accessible CmContainers	With dSPACE Installation Manager, the following CmContainers are accessible and displayed: All CmDongles connected to your PC
	dSPACE Installation Manager can access and therefore display only CmDongles which contain a dSPACE firm code. CmDongles without a dSPACE firm code cannot be displayed. Therefore you cannot use them to activate dSPACE licenses, for example.

- All CmActLicense containers on your PC.
- All CmContainers in a LAN connected to a PC that is configured as a dSPACE License Server. The server must be listed in the server search list on your PC.
- All CmContainers (dSPACE Hardware Containers) that are located on a dSPACE hardware system connected to your PC.

Method

To show available CmContainers and their attributes

1 From Start – dSPACE Installation Manager, select dSPACE Installation Manager.

dSPACE Installation Manager opens.

- 2 Click the Licensing CmContainer tab.
- **3** Check the settings of the following checkboxes:
 - Show only local items: Clear this checkbox if you also want to view CmContainers that are accessible in a LAN.
 - Show items from dSPACE hardware: Select this checkbox if you also want to view dSPACE Hardware Containers that are located on dSPACE hardware systems. This functionality is relevant for the SCALEXIO Hypervisor Extension and the advanced feature package for the MicroLabBox II.
 - Show only regular dSPACE CmContainers: Select this checkbox if you only want to view CmContainers that contain the required dSPACE firm code and can therefore be used for dSPACE license handling.

nstallations MATLAB	Extensions	Diagnostics							
License Overview CmConta	iner License Adr	ministration							
This page displays the available you depends on the confiauration	dSPACE CmContair on of the Code Meter	ners. It displays local CmContain r runtime . CmContainers located	ers and can al I on dSPACE I	lso display (hardware co	CmContain an also be d	ers that are locate lisplayed.	d on license servers in your local area network. Which re	mote CmContaine	ers are availa
Nama	Social Number	CmContainer Tune	WibuKauTD	Location	Varian	irmuara Und-t-	Info	Sonior Add	Conver New
CmDonale	Senal Number	Cricontainer Type	wibukey ID	Location	version	Irmware Opdate	Inio	Server Address	Server Ivan
dSPACE-Test	3-3582494	CmDongle	n/a	Local	4.12	not required	Hardware-based CmContainer for license activation.	10.71.2.35	localhost
dSPACE Activation Containe	r	-							
dSPACE Activation Container	130-181405216	dSPACE Activation Container	n/a	Local	3.00	not required	Software-based CmContainer for license activation.	10.71.2.35	localhost
dSPACE Activation Container	130-1035942853	dSPACE Activation Container	n/a	Local	3.00	not required	Software-based CmContainer for license activation.	10.71.2.35	localhost
dSPACE Borrow Container	130-2805101909	dSPACE Borrow Container	n/a	Local	3.00	not required	Software-based CmContainer for borrowed licenses	10 71 2 35	localhost
contailer		container							

All accessible CmContainers are displayed:

4 Right-click the CmContainer page and select Configure Columns from the context menu.

5 In the Configure Columns dialog, select the attributes you want to display on the CmContainer page.



The following attributes are available:

Attribute	Description
Name	The name of the CmContainer. If the selected CmContainer is a CmDongle, you can modify this entry via Rename.
Serial number	The unique serial number of the CmContainer. Valid for CmDongles shipped with dSPACE Release 2017-B and later: The serial number is also printed on the dongle tag.
CmContainer Туре	 The type of the CmContainer: CmDongle dSPACE Activation Container. This specific variant of a software-based CmContainer can be use to store floating network licenses in it. dSPACE Borrow Container. The dSPACE Borrow Container is a specific variant of a software-based CmContainer. You can borrow floating network licenses from a CmContainer on a dSPACE License Server in a dSPACE Borrow Container. dSPACE Hardware Container. This specific variant of a software-based CmContainer is located on a dSPACE hardware system and is permanently bound to this system. This CmContainer is available for the SCALEXIO Hypervisor Extension and the advanced feature package for the MicroLabBox II.
WibuKey ID	A special ID used to emulate the license ID (dongle number) required for dSPACE Release 2017-A and earlier.
Location	 The location of a CmContainer: Local: The CmContainer is located on your PC. LAN: The CmContainer is located on a PC connected to the LAN. dSPACE Hardware: The CmContainer is located on a dSPACE hardware system connected to your PC.
Version	The CmContainer version number.
Firmware Update	Indicates whether the firmware of the CmContainer is outdated and needs to be updated. If Required is displayed, refer to How to Update the Firmware of a CmDongle on page 51.
Info	 Provides further status information on the CmContainer. Possible entries are: Hardware based CmContainer to activate licenses on it. Software based CmContainer to activate licenses on it. Migration required via 'dSPACE Dongle Migration' utility. Migration required. Go to 'License Administration - Dongle Migration'.

Attribute	Description
	 CmContainer not prepared for license activation. Go to 'License Administration - Manual CmContainer Creation'.
	 Unsupported CmDongle. No WibuKeyID found.
	 Unsupported CmDongle. No ID_DSPACE entry found.
Server Name	 The name of the dSPACE License Server that hosts the CmContainer with the floating network licenses. or - The URL of the dSPACE hardware system, where the dSPACE Hardware Container is located.

Result

dSPACE Installation Manager displays accessible CmContainers with the selected attributes.

Note

- dSPACE Installation Manager stores the settings you made in the Configure Columns dialog.
- Use the Restore Defaults button in the Configure Columns dialog to reset the display of attributes to a default setting.

How to Show Available Licenses and Their Attributes

Objective	To view available dSPACE licenses and their attributes, you can use dSPACE Installation Manager.
Accessible licenses	 With dSPACE Installation Manager, the following licenses are accessible and displayed: All licenses in CmContainers (CmDongles or CmActLicense containers) on your PC. All licenses in CmContainers in a LAN network connected to a PC that is configured as a dSPACE License Server. The server must be listed in the server search list on your PC. In a LAN, dSPACE Installation Manager can show only floating network licenses.
	Note Single-user licenses are not accessible and therefore not displayed.

 All licenses in a dSPACE Hardware Container located on a dSPACE hardware system connected to your PC.

Method

To show available licenses and their attributes

 From Start – dSPACE Installation Manager, select dSPACE Installation Manager.

dSPACE Installation Manager opens.

- 2 Click the Licensing License Overview tab.
- **3** Check the settings of the following checkboxes:
 - Show only local items: Clear this checkbox if you also want to view also licenses that are located in CmContainers that are accessible in a LAN.
 - Show items from dSPACE hardware: Select this checkbox if you also want to view licenses that are stored in dSPACE Hardware Containers located on dSPACE hardware systems. This functionality is relevant for the SCALEXIO Hypervisor Extension and the advanced feature package for the MircoLabBox II.
 - Show only items which expire soon: Select this checkbox if you want to view only licenses that are about to expire. The specified alert time has been reached.

dSPACE Installation Manager							_		
elp									
tallations MATLAB Extensions D	iagnostics	Licensing							
cense Overview CmContainer License Admi	nistration								
is page displays the available dSPACE licenses. It di nfiguration of the Code Meter runtime . Licenses loc	splays local li ated on dSPA	censes and can also ACE hardware can al	display licenses (or so be displayed.	ly FNL) that are located on licer	nse servers in your local area ne	twork. Which remote licens	es are available to you depende	on the	
Icense Name	Location	Maintenance End	CmContainer	CmContainer Name	CmContainer Type	Expiration Date			
(505 Vietual IIN	Lecal	20.12.2021	120 1025042952	dCDACE Activation Container	dCDACE Activation Container	21 12 2021			
VEOS - Virtual EIN	Local	20.12.2021	120 1025042853	dSPACE Activation Container	dSPACE Activation Container	21 12 2021			
VEOS - Virtual ECO	Local	2012/2021	120 1025042853	dSPACE Activation Container	dSPACE Activation Container	21 12 2021			
VEOS - VIIItual CAIN	Local	30.12.2021	130-1035942853	dSPACE Activation Container	dSPACE Activation Container	31 12 2021			
-3582494	LOCUI	50.12.2021	150 1055542055	don Ace Activation container	don Ace Activation container	51-12-2021			-
ControlDesk Bus Navigator Module	Local	30.12.2021	3-3582494	dSPACE-Test	CmDonale	n/a			
ControlDesk	Local	30.12.2021	3-3582494	dSPACE-Test	CmDonale	n/a			
ControlDesk - Operator Version	Local	30.12.2021	3-3582494	dSPACE-Test	CmDonale	n/a			
installation Manager - Extended Admin	Local	30.12.2021	3-3582494	dSPACE-Test	CmDonale	n/a			
anse: 0 oup by: CmContainer V Show only loc	cal items: ✔	Show items from c	ISPACE hardware:	ISPACE Hardware	now only items which expire sc	ion: 🗌 Configure Notifica	tions Delete Expired Borro	wed Licen	nse

4 Right-click the License Overview page and select Configure Columns from the context menu.

5 In the Configure Columns dialog, select the attributes you want to display on the Licence Overview page.



The following attributes are available:

Attribute	Description
License Name	The name of the license.
Child Licenses	The name of the licenses contained in the displayed license. The properties of the child licenses are included in the displayed parent license.
License ID	 Unique ID of the instance of a license. Every license which is purchased gets a license ID. With this ID, you can clearly identify instances of licenses, for example, available in the same CmContainer on a floating-network license server. Example: The AutomationDesk Basic license is contained twice in a CmContainer. The two instances can be clearly distinguished by their license IDs (8644956 and 8644975). The ID does not change when the license is updated or moved to a different CmContainer.
License Type	 The type of the license. Possible entries are: Standard: The license is a single-user license or a floating network license. Named: Named licenses let you work on a SYNECT server with a specific SYNECT user or from a PC with a specific host name. For details, refer to Basics on License Protection (The SYNECT Server Guide III). Unknown: dSPACE Installation Manager does not know the license type of the license.
Location	 The location where the license is accessible: Local: The license is located on your PC. LAN: The license is a floating network license and located on a dSPACE License Server in the LAN. dSPACE Hardware: The license is located on a dSPACE hardware system connected to your PC.
Borrowing ¹⁾	 The state of a license with regard to license borrowing: Borrowable: The floating network license is available on a dSPACE License Server and can be borrowed as long as licenses are available according to the license quantity.

Attribute	Description
	Borrowed: The license was borrowed to the local PC from a floating network license on a dSPACE License
	Server. Lise the Delete Expired Borrowed License button to remove licenses whose borrow period has expired
	from the license overview.
	 n/a: The license is neither borrowable nor borrowed.
Borrow Expiration	The date and time when the borrow period of a borrowed license expires.
Date ¹⁾	You can manually return borrowed licenses prior to the expiration date.
Borrow Source ¹⁾	The serial number of the source CmContainer a borrowed license is borrowed from.
Accessibility	The way the license can be accessed. Possible entries are:
	Single-user
	Floating network
License Quantity	Maximum number of licenses that can be used in parallel on client PCs. The quantity depends on your order. Floating network licenses can have quantities ≥ 1 .
Maintenance End	The current maintenance end date.
	The maintenance end date limits the usable versions of a software product. All product versions released before the maintenance end date can be executed. The initial maintenance ends six months after the delivery
	date of the product but can be extended by purchasing SMS contracts. Refer to Validity of CodeMeter
	Licenses on page 15.
CmContainer	The serial number of the CmContainer where the related license is activated.
	Valid for CmDongles shipped with dSPACE Release 2017-B and later: The serial number is also printed on the
CmContainar	The name of the Concentainer
Name	
CmContainer Type	The type of the CmContainer where the related license is activated:
	CmDongle
	 dspace Activation Container. This specific variant of a software-based CmContainer can be use to store floating network licenses in it.
	• dSPACE Hardware Container. This specific variant of a software-based CmContainer is located on a dSPACE
	hardware system and is permanently bound to this system. This CmContainer is available for the SCALEXIO
	Hypervisor Extension and the advanced feature package for the MicroLabBox II.
	The product code identifies the dSPACE software product associated with the license entry via a unique code.
Linger Time	Some floating network licenses have linger times. After a license is released by the software product, it remains reserved for the same license client PC for the duration of the linger time. After the linger time has
	elapsed, the license can be used by other license clients.
Server Name	• The name of the dSPACE License Server that hosts the CmContainer with the floating network licenses.
	- or -
	The URL of the dSPACE hardware system, where the dSPACE Hardware Container is located.
Ticket ID	The ticket ID for the license. Ticket IDs are used, for example, for license activation.
Expiration Date	The date when the time-limited license expires. After this date the related dSPACE software product is no longer usable.
Usage Period	The time in days for which the license can be used.
	The period begins with the first use of the activated license from the related dSPACE product and ends when the number of days specified expires
Lisage Period Start	Date when a dSPACE product first uses a license with a defined usage period
Usage Poriod End	Expiration date of a license with a defined usage period.
Usage Period End	Expiration date of a license with a defined usage period.
Unit Counter	roi internal use.

¹⁾ For more information on borrowable and borrowed licenses, for example, on the number of licenses still available in a floating network license, refer to How to Borrow Licenses on page 115.

Result

dSPACE Installation Manager displays available dSPACE licenses with the selected attributes.

Note

- dSPACE Installation Manager stores the settings you made in the Configure Columns dialog.
- Use the Restore Defaults button in the Configure Columns dialog to reset the display of attributes to a default setting.

How to Request and Show Ticket Information

Objective	dSPACE uses a ticket-based system to manage licenses, for example, to activate licenses.					
	With dSPACE Installation Manager, you can request the current information of your tickets from dSPACE License Central and view it. For example, you can see licenses and their activation states, and the current CmContainer on which they are activated.					
Ways to request ticket information	 Depending on your use case, you can request ticket information as follows: You have a specific ticket ID or ticket group ID, or a file with ticket IDs, and want to get the related ticket information. In this case, you have to enter the ticket ID or ticket group ID in an edit field or to import the file with ticket IDs. You have access to a local CmContainer, for example, a connected CmDongle, and want to get ticket information related to the licenses on the CmContainer. In this case, you can have dSPACE Installation Manager read and collect all ticket information from the local CmContainer. 					
Preconditions	 An Internet connection for accessing dSPACE License Central exists. Depending on your use case: A valid ticket ID is available. A locally accessible CmContainer, for example, a CmDongle, with valid licenses is available. 					

Method

To request and show ticket information

1 From Start – dSPACE Installation Manager, select dSPACE Installation Manager.

dSPACE Installation Manager opens.

- 2 Click the Licensing License Administration tab.
- **3** Select Show Ticket Information and then select Enter explicitly or Read automatically from local CmContainer, depending on your use scenario. These instructions proceed with the Enter explicitly option.

🜒 dSPACE Installation Manager
Help
Instalations MAILAB Extensions Disprotoci
License Overview CmContainer License Administration
Select Use Case:
C License Activation Show Ticket Information
License Update dSPACE uses a ticket-based system for license handling, for example, for activitying licenses. You can request the current states of the tickets from dSPACE License Central to display them. You can view information, such as the confirmation states of the tickets. You can also view on which CmContainer the tickets are activated. Note that all tickets of a CmContainer must be confirmed before you can also view on which CmContainer the tickets are activated. Note that all tickets of a CmContainer must be confirmed before you can also there explicitly enter the ticket USE or you can tell the installation Manager collect all ticket information for local
CmContainers.
Renew Borrowed Licenses
Store Ticket Information Internet Internet
Back Next Cancel
Ready

4 Click Next.

5 Enter a ticket ID or ticket group ID in the edit field.

🕷 dSPACE Installation Manager		
Help		
Installations MATLA8 Extensions D License Overview CmContainer License Admit	Nagnotics Licensing	
Select Use Case:		
C License Activation	Show Ticket Information	
License Update On the	n this page, you can explicitly enter the ticket IDs for tickets you want to see. You can effer ticket IDs, ticket group IDs, and you can import ticket IDs from a file at was generated by the Installation Manager.	
C License Deactivation	Ticket ID or ticket group ID: ACT-5E663-2A93E-72482-3AA90-9FF39 Add	
Borrow Licenses	License Name Supported Action License State Confirmation State Current ConContainer Ticket Id Accessibility Maintenance End Additional And	
Return Borrowed Licenses		
Renew Borrowed Licenses		
Show Ticket Information		
	Import from File Save to File	C Rescan
Show all use races	Back Close Cancel	
Ready		

6 Click Add.

dSPACE Installation Manager connects to dSPACE License Central, gets ticket information from the database, and displays the information as follows:

dSPACE Installation Manager							
nstallations MATLAB	sions Diagnostics						
License Overview CmContainer	License Administration						
elect Use Case:		Show	Ticket I	nformatio	on		
C License Update	dSPACE uses a ticket-based system for license har You can request the current states of the tickets fr the licenses and the CmContainer on which they a	ndling, for example, for rom dSPACE License (are activated.	or activating lice Central and disp	nses. Iay them. You can vie	w information, such as	the activation states of	
C License Deactivation	Ticket ID or ticket gro	oup ID:				Add	
Borrow Licenses	License Name	Supported Action	License State	Confirmation State	Current CmContainer	Recent CmContainer	
Return Borrowed Licenses	SCALEXIO Failure Simulation for 200 Functions RTI Ethernet I/O Package	Activation Activation	Not activated Not activated	None None	n/a n/a	n/a n/a	
Renew Borrowed Licenses	ControlDesk ECU Interface Module SCALEXIO Failure Simulation for 300 Functions	Activation	Not activated	None	n/a	n/a	
Show Ticket Information	ControlDesk Signal Editor Module HighTec C Compiler for Renesas V850/RH850	Activation Activation	Not activated Not activated	None None	n/a n/a	n/a n/a	
				Import from File	Save to File Ve	rify Internet Connection	C Rescan
Show all use cases	Back		Close			Cancel	
du							

- **7** Right-click the License Administration page and select Configure Columns from the context menu.
- 8 In the Configure Columns dialog, select the attributes you want to display on the License Administration page.



Attribute	Description
License Name	The name of the license.
License ID	Unique ID of the instance of a license. Every license which is purchased gets a license ID. With this ID, you can clearly identify instances of licenses, for example, available in the same CmContainer on a floating- network license server. Example: The AutomationDesk Basic license is contained twice in a CmContainer. The two instances can be clearly distinguished by their license IDs (8644956 and 8644975). The ID does not change when the license is updated or moved to a different CmContainer.
Supported Action	The action you can perform with the license. Possible actions are: None Activation Deactivation Update
License State	The state of the license. Possible states are: Activated Not activated
Confirmation State	 Confirmation is the last step in activating, updating and deactivating a license. Possible states are: None Confirmed Unconfirmed
Current CmContainer	The CmContainer where the related license is activated.
Previous CmContainer	The CmContainer where the related license was activated before.
Supported CmContainer Types	 The CmContainer type that is supported for the related license. Possible types are: CmDongle dSPACE Activation Container. This specific variant of a software-based CmContainer can be use to store floating network licenses in it. dSPACE Hardware Container. This specific variant of a software-based CmContainer is located on a dSPACE hardware system and is permanently bound to this system. This CmContainer is available for the SCALEXIO Hypervisor Extension and the advanced feature package for the MicroLabBox II.
Ticket ID	The ticket ID of the related license.
Accessibility	The way the license can be accessed. Possible entries are: Single-user Floating network
License Quantity	Maximum number of licenses that can be used in parallel on client PCs. The quantity depends on your order. Floating network licenses can have quantities ≥ 1 .
Maintenance End	The current maintenance end date. The maintenance end date limits the usable versions of a software product. All product versions released before the maintenance end date can be executed. The initial maintenance ends six months after the delivery date of the product but can be extended by purchasing SMS contracts. Refer to Validity of CodeMeter Licenses on page 15.
Product Code	The product code identifies the dSPACE software product associated with the license entry via a unique code.
Linger Time	Floating network licenses of some products have linger times. After a license is released by the software product, it remains reserved for the same license client PC for the duration of the linger time. After the linger time has elapsed, the license can be used by other license clients.

The following information is available:

Attribute	Description
Expiration Date	The date when the time-limited license expires. After this date the related dSPACE software product is no longer usable.
Usage Period	The time in days for which the license can be used. The period begins with the first use of the activated license from the related dSPACE product and ends when the number of days specified expires.
Required WibuKey ID	The WibuKey ID required for license activation, deactivation, or update. License handling is possible only if the related CmDongle contains the displayed WibuKey ID.
Additional Info	Additional information provided by dSPACE.

Result

dSPACE Installation Manager gets the current state of your tickets from dSPACE License Central and displays this information.

Note

- dSPACE Installation Manager stores the settings you made in the Configure Columns dialog.
- Use the Restore Defaults button in the Configure Columns dialog to reset the display of attributes to a default setting.

Notifications for Expiring Licenses

dSPACE Installation Manager checks whether licenses have expired or are about to expire. If this is the case for a license, dSPACE Installation Manager uses notifications to warn you. You can configure these notifications. Notifications for the following license attributes are supported: borrow expiration date, maintenance end, expiration date, and usage period end.
The dSPACE Installation Manager notification icon is available in the notification area of the Windows taskbar. It is started by the Windows autostart function when you start your PC. Refer to the following illustration.
dSPACE Installation Manager へ で

With this feature, notifications are displayed without starting and running dSPACE Installation Manager.

If there is a notification, dSPACE Installation Manager displays a message on the screen. Refer to the following example.



You can start the dSPACE Installation Manager by clicking on the message box. In this case, the dSPACE Installation Manager automatically switches to the License Overview page. There, the affected attributes are displayed automatically (see below).

Closing the Windows taskbar notification feature You can use the Exit command in the context menu to close the Windows taskbar notification feature until the next time you start your PC.



Note

When you close the dSPACE Installation Manager notification feature, note that the notifications about available software updates are also closed.



Refer to the following example.

dSPACE Installation Manager							
Help							
astallations MATLAB Extensions	Diagnost	tics Licensing					
License Overview CmContainer License A	dministrati	ion					
This name displays the available dSPACE licenses	It displays	local licenses and can als	o display licenses (or	nly FNI) that are lo	cated on license servers in your	local area network. It depends	on the configuration of the Code Meter runtime which remote licenses are available to you
	n acpiajo		o ospaj acenses (o				
License Name	Location	Borrow Expiration Date	Maintenance End	CmContainer	CmContainer Name	CmContainer Type	Expiration Date
130-1425020862							
ConfigurationDesk - Configuration Version	Local	29.08.2019 11:56:39	01.01.2019	130-1425020862	dSPACE Borrow Container	dSPACE Borrow Container	n/a
 ConfigurationDesk - Configuration Version 	Local	04.10.2019 12:12:58	01.01.2019	130-1425020862	dSPACE Borrow Container	dSPACE Borrow Container	n/a
() ConfigurationDesk - Configuration Version	Local	09.09.2019 16:55:25	01.01.2019	130-1425020862	dSPACE Borrow Container	dSPACE Borrow Container	n/a
Lic1000FNL10_MaintEnd_ExpDat	Local	29.08.2019 11:56:22	31.12.2019	130-1425020862	dSPACE Borrow Container	dSPACE Borrow Container	31.12.2020
Lic1000FNL10_MaintEnd_ExpDat	Local	02.09.2019 10:22:50	31.12.2019	130-1425020862	dSPACE Borrow Container	dSPACE Borrow Container	31.12.2020
130-815072939							
ConfigurationDesk - Configuration Version	Local	n/a	01.01.2019	130-815072939	dSPACE Activation Container	dSPACE Activation Container	n/a
Lic1000FNL10_MaintEnd_ExpDat	Local	n/a	30.12.2020	130-815072939	dSPACE Activation Container	dSPACE Activation Container	31.12.2020
Lic1000FNL10_MaintEnd_ExpDat	Local	n/a	31.12.2019	130-815072939	dSPACE Activation Container	dSPACE Activation Container	31.12.2020
Lic1000FNL10_MaintEnd_ExpDat	Local	n/a	31.12.2019	130-815072939	dSPACE Activation Container	dSPACE Activation Container	31.12.2020
3-3951598							
ConfigurationDesk - Configuration Version	Local	02.09.2019 10:23:55	01.01.2019	3-3951598	dSPACE Dongle	GmDongle	n/a

Configuring notifications

dSPACE Installation Manager provides a specific dialog for configuring notifications. You can access this dialog via the Configure Notifications button on the License Overview page. Refer to the following illustration.

	censes: 0	
	iroup by: CmContainer 🔹 Show only local items: 🗹 Show items from dSPACE hardware: 🗌 dSPACE Hardware Show only items which expire soon: 🛛 Configure Notifications Delete Expired Borrowed Lice	e
R	dy	

In the **Configure Notifications** dialog, you can configure notifications (in days) for the following attributes of a license:

- Borrow expiration date
- Maintenance end
- Expiration date
- Usage period end

For details on the listed attributes, refer to How to Show Available Licenses and Their Attributes on page 40.

The following illustration shows the default settings of the dialog.

Configure Notifications Here you can set how you v whose maintenance period	vant to be notified about licenses is about to end. The notification is	that are a s done via	bout to a	expire or ndows
Notification Area.				
License properties				
Maintenance end:	Only product versions released before the maintenance end date can be executed.	Notify	30	days before
Borrow expiration date	You can renew a borrowed license. After the borrow expiration date, the related dSPACE software product is no longer usable.	Notify	10	days before
Expiration date:	After the expiration date, the related dSPACE software product is no longer usable.	Notify	10	days before
Usage period end:	After the usage period ends, the related dSPACE software product is no longer usable.	Notify	10	days before
Notify only for local lice	enses			
Do not notify when the	date is already reached			
- bo not notify when the	aute is an easy redenied			
			Cancel	OK

- You can clear the Notify only for local licenses checkbox if you also want to set the notifications for licenses that are accessible in your LAN.
- You can clear the Do not notify when the date is already reached checkbox if you would like to receive a notification even after the end date has been reached.

How to Update the Firmware of a CmDongle

Objective	dSPACE Installation Manager checks if the firmware of a connected dongle matches at least the firmware version that was defined by dSPACE. If the firmware version does not match, a firmware update is required before you can continue the license activation, deactivation, or update.
Required firmware	If you want to work with licenses on CmDongles in combination with dSPACE Installation Manager 24.1, the dongles must have at least firmware version 4.10. CmDongles shipped for dSPACE Release 2019-A and later contain at least the required minimum firmware version.
	The installed dSPACE Installation Manager provides the latest firmware version to update the CmDongles that do not contain the required minimum firmware version.
Showing firmware status	dSPACE Installation Manager shows the firmware update state, for example, on the CmContainer page. A required firmware update is displayed in the following example
	dSPACE Installation Manager leg leg leteration MATLB Extension Degretation Leteration Leteratin Leteration Lete

In addition, the state is displayed on every workflow page that uses dongles. On these pages, the Update Firmware button is available if a firmware update is necessary or possible.

Method

To update the firmware of a CmDongle

1 Click Update Firmware as shown in the following illustration.

dSPACE Installation Manag	ger							•
Help								
Installations MATLAB	Extensions	Diagnostics Lie	censing					
This page displays the avai the Code Meter runtime wh	ilable dSPACE CmCo hich remote CmCon	ontainers. It displays local tainers are available to yo	CmContainers and ou.	an also dis	splay Cm(Containers that are	located on license servers in your local area network. It depends on the configurat	on of
Name	Serial Number	CmContainer Type	WibuKey ID	Location	Version	Firmware Update	Info	
localhost								
dSPACE Dongle #61760	3-3582496	CmDongle	61760 (0xF140)	Local	4.05	required 🔵	Hardware-based CmContainer for license activation.	
iroup by: ServerName	Show o	nly local items: 🔽 Sho	ow only regular dSP	ACE CmCo	ntainers:	Update Firm	ware Riname Make Dongle LEDs Flash Delete	Resca
dy								_

A confirmation prompt is displayed.

Update F	rmware?	
?	Do you really want to update the firmware to version 4.40?	
	Yes No	

2 Click Yes.

The update process starts.

Note

Do not remove the CmDongle during the update process. Removing the CmDongle from the host PC might cause data loss.

Result

You updated the firmware of a CmDongle to the version that is provided with the installed dSPACE Installation Manager. The version number is displayed in the Firmware Update column. You can now continue to activate, deactivate or update licenses on the CmDongle.

Dongle Migration

Notes on Dongle Migration

Motivation	CmDongles shipped for dSPACE Release 2017-B and later support CodeMeter licensing without modifications. Dongles delivered for earlier Releases cannot be used for the new CodeMeter license technology.
Discontinuation of the dongle migration with dSPACE Installation Manager	As of dSPACE Release 2023-A, dSPACE Installation Manager no longer supports migration from old dongles (delivered for dSPACE Release 2017-A and earlier) to currently delivered CmDongles.
	 If you still have an old dongle that needs to be migrated to use dSPACE Release 2017-B or later, the following applies: You are still using a WibuKey dongle (Type 1): Migration is no longer possible. A dongle exchange by dSPACE is required. For more information, refer to
	 http://www.dspace.com/go/DongleReplacement. You are still using a first-generation CmDongle (Type 2), with serial number starting with 2-xxxx and white connector: Migration is no longer possible. A dongle exchange by dSPACE is required. For more information, refer to http://www.dspace.com/go/DongleReplacement.
	• You are still using a CmDongle (Type 3), with serial number starting with 3-xxxx and old firmcode: Migration is required by using an earlier version of dSPACE Installation Manager (from 5.0 to 22.3). For the download of dSPACE Installation Manager 22.3, refer to https://www.dspace.com/go/IM.

Dongle Migration

License Activation

Introduction	Before you can use licenses for the first time, you have to activate them. For license activation, dSPACE GmbH uses a ticket-based system and hosts a database. This database is called dSPACE License Central. To start the activation process, you have to enter the ticket IDs that you received from dSPACE via e- mail. During activation, data is transferred between dSPACE Installation Manager and dSPACE License Central. You can activate multiple licenses on one CmContainer (for example, CmDongle) in one step.					
Where to go from here	Information in this section					
	Use Cases and Workflows for License Activation55					
	How to Activate Licenses (Local Access to CmContainer)					
	How to Activate Licenses (LAN Access to CmContainer)					
	How to Activate Licenses (Hardware Access to CmContainer)					
	How to Activate Licenses (File-Based Access to CmContainer)					

Use Cases and Workflows for License Activation

Use cases

Online activation with local access of the dSPACE Installation Manager to the CmContainer is the recommended way to activate license. For a detailed description of the use cases, refer to Methods for Accessing CmContainers on page 17.



The workflow differs depending on how dSPACE Installation Manager can access the CmContainer.

Note

LAN access is disabled by default.

To protect CmContainers on PCs in a LAN from unwanted actions (license activation, license update, license deactivation), LAN access is disabled by default. To use the LAN access feature, a local, activated InstallationManager – Extended Admin license must be available on the PC with Installation Manager. Contact your local dSPACE sales representative or contact dSPACE Support (www.dspace.com/go/supportrequest).



Activate licenses

Displays activation result

dSPACE License Centra

Workflow for local access

The following illustration shows the workflow for single-user licenses as well as

For instructions, refer to How to Activate Licenses (Local Access to CmContainer) on page 60.

Workflow for LAN access

The following illustration shows the workflow for single-user licenses as well as for floating network licenses:



For instructions, refer to How to Activate Licenses (LAN Access to CmContainer) on page 64.



For instructions, refer to How to Activate Licenses (Hardware Access to CmContainer) on page 69.

Workflow for file-based access

Note

This workflow also applies if you want to access the CmContainer via a remote desktop connection.



The following illustration shows the workflow for single-user licenses as well as for floating network licenses:

For instructions, refer to How to Activate Licenses (File-Based Access to CmContainer) on page 75.

How to Activate Licenses (Local Access to CmContainer)

Objective	To activate single-user and floating network licenses on a CmContainer that is accessible locally on your PC.
General notes and tips	Тір
	You can activate multiple licenses on one CmContainer in one step.

Note

It is recommended to activate a maximum of 50 licenses in one CmContainer. If you have a larger number of licenses, distribute them over several CmContainers. A higher number of licenses in one CmContainer can lead to long run-times for the activation or update of the licenses.

Preconditions

- dSPACE Installation Manager is installed on your PC.
- An Internet connection for accessing dSPACE License Central exists.
- At least one ticket ID is available.

Note

Dongles delivered for dSPACE Releases 2017-A and earlier cannot be used for the new CodeMeter license technology without modifications. Therefore, dongle migration is required for these dongles before you can activate licenses on them. Refer to Dongle Migration on page 53.

Method

To activate licenses (local access to CmContainer)

- 1 Connect the CmDongle to your PC if you want to activate the license on a CmDongle.
- 2 From Start dSPACE Installation Manager, select dSPACE Installation Manager.

dSPACE Installation Manager opens.

- **3** Click the Licensing License Administration tab.
- 4 Select License Activation and click Next.



5 Enter or paste the ticket ID for license activation you received from dSPACE via e-mail in the edit field and click Add.

The license overview displays the required ticked IDs and ticket group IDs as in the following example:

License Overview

	C	D	Λ/	
u		- 2	- \	

Sales order Purchase order Your Ref.	AL-QUEND Reservers AUX01012 - Polares Automatica			Date: Delive	ery Date:	2023-09-07 2023-09-08			
CmContainer: #Li	censes are not activated yet								
TicketGroup AC	T-88/8-6 8 TABLE BAR/TO (2000) 8-00	-							
Order number	Product	Ticket ID	Licensing Model	License Quantity	Maintenance Date	Expiration Date	Usage Period	End User	Delivery Date
CCPPPC	Microtec C PowerPC Cross Compiler	CARLON CONTRACTOR	Local	1,00	2024-03-31			Disperiel Service	2023-09-08
CONTROLDESK	ControlDesk	1000 CONTRACTOR (1000 CONTRACTOR)	Local	1,00	2024-03-31			lingest looply	2023-09-08
CONTROLDESK_SE	ControlDesk Signal Editor Module	0411034100-049.003	Local	1,00	2024-03-31			Separate Service	2023-09-08
PLATFORM_API	Platform API Package	Selection of the select	Local	1,00	2024-03-31			Separate Service	2023-09-08

The ticket information is provided by dSPACE License Central.

relp						
tallations MATLAB Exte	nsions Diagnostics Licensing					
ense Overview CmContainer	License Administration					
ect Use Case:						
License Activation		En	ter ticket IDs			
License Update	To activate dSPACE licenses, you must have the relevant licket 1. Enter or paste each ticket ID as you received it from dSPACE 2. Enter or paste a ticket group ID as you received it from dSPA 3. Import ticket IDs from a file you previously created with Inst Some licenses can be activated in more than one CmContaine	IDs. You can enter the ticket IDs as t L. ACE. allation Manager. r type. For these licenses, click the Se	follows: elect Target CmContainer Type b	utton and select the desired (ImContainer type.	
Borrow Licenses	Ticket ID or ticket grou	ID: ACT-FB4EE-47A75-	95443-78AE3-7FD29		Add	>
Keturn Borrowed Licenses	Activate License Name	Target CmContainer Type	Supported CinContainer Types	Supported Action License 5	ate Required WibuKey ID Confirmati	on State Current
Renew Borrowed Licenses	ControlDesk					
Show Ticket Information	ControlDesk	dSPACE Activation Container	CmDongle dSPACE Activation Container	Activation Not activ	ated None	n/a
	ControlDesk Bus Navigator Module					
	ControlDesk Bus Navigator Module	dSPACE Activation Container	CmDongle dSPACE Activation Container	Activation Not activ	ated None	n/a
	ControlDesk ECU Diagnostics Module					
	ControlDesk ECU Diagnostics Module	dSPACE Activation Container	CmDongle dSPACE Activation Container	Activation Not activ	ated None	n/a
	ControlDesk ECU Interface Module					
	ControlDesk ECU Interface Module	dSPACE Activation Container	CmDongle dSPACE Activation Container	Activation Not activ	ated None	n/a
	ControlDesk Signal Editor Module					
	ControlDesk Signal Editor Module	dSPACE Activation Container	CmDongle dSPACE Activation Container	Activation Not activ	ated None	n/a
	DS1007 GNU Compiler					
	DS1007 GNU Compiler	dSPACE Activation Container	CmDongle dSPACE Activation Container	Activation Not activ	ated None	n/a
	L.)
	Toggle Activate Select Target CmContainer Type Grou	ip by: LicenseName				Import from Fi
	Back		Next		Cancel	

- 6 Select the licenses you want to activate.
- 7 For floating network licenses: Click Choose CmContainer Type and select the desired CmContainer type: (CmDongle or dSPACE Activation Container):

Activate	License Name	Target CmContainer Type	Supported CmContainer Types
	ControlDesk Bus Navigator Module	dSPACE Activation Container	CmDongle dSPACE Activation Container
	ControlDesk ECU Diagnostics Module	dSPACE Activation Container	CmDongle dSPACE Activation Container
	ControlDesk ECU Interface Module	dSPACE Activation Container	CmDongle dSPACE Activation Container
	ControlDesk Signal Editor Module	dSPACE Activation Container	CmDongle dSPACE Activation Container
4			
Toggle A	ctivate Select Target CmContainer Type,	Group by: None	•

8 Click Next.

9 Select Local access.

dSPACE Installation Manager displays all accessible CmContainers.

🕷 dSPACE Installation Manager	
Help	
installations MAILAB Extensions Degreets	
License Overview CmContainer License Administration	
Select CmContainer for License Activation	
Lense Update Select access to CmContainer: Cocal access Local access Lona access dSPACE hardware File-based access Select the cif-container on which to activate the formers: Opdate and increase of the period. Container on a which the activate the formers: Opdate and increase of the period. Container on a which the activate the formers: Opdate and increase of the period. Container on a which the activate the formers: Opdate and increase of the period. Container on a which the activate the formers: Opdate and increase of the period. Container on a which the activate the formers: Opdate and increase of the period. Container on a which the activate the formers: Opdate and increase of the activate activate the formers:	-
License Deactivation Target CircContainer Name Serial Number CircContainer Type WebuKey ID Location Server Address Server Name Firmware Update	
Borrow Licenses dSPACE Dongle #33907 3-3529149 CmDongle 33907 (tx8473) Local 10.1.100.243 localhost not required	
Return Borrowed Licenses	
Renew Borrowed Licenses	
Show Ticket Information	
Create New CmCantainer Jordan Formanne Makar Dongle LIDs Flash	C Rescan
Show all use cases Freigh Cancel	
Partie	

10 Only for floating network licenses: Click Create New CmContainer if no CmActLicense container is available or if you want to create a new one. After creating the CmActLicense container, dSPACE Installation Manager displays a confirmation prompt with the serial number of the new CmContainer:

CmActLicense created	×
Successfully created	l CmActLicense '130-2409234908'.
	ОК

11 Select the target CmDongle or CmActLicense container.

dSPAC Help	E Installation Manager											0
kallat	ions MATLAB	Extensi	ons Diagnostics	Licensing								
icens	e Overview CmContain	er li	cense Administration)								
lect L	Jse Case: License Activation				Select	CmContainer	for Lice	nse A	ctivatio	n		
0	License Update		Select access to Select the CmContaine CmContainer type is d	CmContainer: er on which to activate the licen	Local acce ses. Only CmContai	ss LAN acc ners corresponding to the Targe	ess et CmContainer ty	O dSPA	CE hardwar cified on the pre-	e	File-based access	
\odot	License Deactivation		Target CmContainer	Name	Serial Number	CmContainer Type	WibuKey ID	Location	Server Address	Server Name	Firmware Update	
۲	Borrow Licenses		0	dSPACE Activation Container dSPACE Activation Container	130-6068467 130-181405216	dSPACE Activation Container dSPACE Activation Container	n/a n/a	Local Local	10.1.100.243 10.1.100.243	localhost localhost	not required not required	
	Datum Damand Llands		٥	dSPACE Activation Container	130-1035942853	dSPACE Activation Container	n/a	Local	10.1.100.243	localhost	not required	
0	Renew Borrowed License Show Ticket Information	s	U	CSYALE Liongle #33907	3-5329149	CmDongle	33907 (Dx8473)	Local	101100.243	locarnost	постединео	
			Create New CmConta	iner Update Firmware Mak	e Dongle LEDs Flas	h						C Resca
T Shr	w all use cases			Back		Fi	inish				Cancel	

12 Click Next.

A confirmation prompt is displayed.



13 Click Yes to start the activation process.

dSPACE Installation Manager automatically performs the data exchange with dSPACE License Central and displays the activation result as follows:

💰 dSPACE Installation Manager		
Help		
Installations MATLAB	ons Diagnostics Licensing	
License Overview CmContainer Li	ense Administration	
License Activation	License Activation Completed	
C License Update	State of the processed licenses:	
License Deactivation	License Name License State Confirmation State Current CmContainer Ticket	4
Borrow Licenses		
Return Borrowed Licenses		
C Renew Borrowed Licenses		
Show Ticket Information		
	Save to File.	-
Show all use cases	Back Close Cancel	
Ready		

14 Click Close.

Result

You activated single-user licenses or floating network licenses. The licenses are now ready for use.

How to Activate Licenses (LAN Access to CmContainer)

Objective	To activate floating network licenses on a CmContainer that is accessible from dSPACE Installation Manager via LAN.
General notes and tips	Tip You can activate multiple licenses on one CmContainer in one step.
	Note It is recommended to activate a maximum of 50 licenses in one CmContainer. If you have a larger number of licenses, distribute them over several CmContainers. A higher number of licenses in one CmContainer can lead to long run-times for the activation or undate of the licenses

Restriction	Note
	LAN access is disabled by default. To protect CmContainers on PCs in a LAN from unwanted actions (license activation, license update, license deactivation), LAN access is disabled by default. To use the LAN access feature, a local, activated InstallationManager – Extended Admin license must be available on the PC with Installation Manager. Contact your local dSPACE sales representative or contact dSPACE Support (www.dspace.com/go/supportrequest).
Preconditions	 The PC with the CmContainer is configured as a dSPACE License Server. Refer to How to Set Up the dSPACE License Server on page 153. The PC with dSPACE Installation Manager is able to establish an TCP/IP connection to the dSPACE License Server. Refer to How to Set up a Connection Between Client and Server on page 156. At least one ticket ID is available. An Internet connection for accessing dSPACE License Central exists. A CmDongle is available if you want to activate the floating network licenses on a CmDongle.
	Note Dongles delivered for dSPACE Releases 2017-A and earlier cannot be used for the new CodeMeter license technology without modifications. Therefore, dongle migration is required for these dongles before you can activate licenses on them. Refer to Dongle Migration on page 53.
Method	To activate licenses (LAN access to CmContainer)
	 Connect the CmDongle with the activated InstallationManager – Extended Admin license to the PC with dSPACE Installation Manager. For instructions on activating the license, refer to How to Activate Licenses (Local Access to CmContainer) on page 60.
	 From Start – dSPACE Installation Manager, select dSPACE Installation Manager. dSPACE Installation Manager opens
	Click the Licensing – License Administration tab.

🛃 dSPA	ACE Installation Manager	×
Help		
Installa	tions MATLAB Extensions	Diagnositics Licening
Licens	se Overview CmContainer Licens	e Administration
Select	Use Case: License Activation	> License Activation
0	License Update	To use license-protected dSPACE software, you have to activate the licenses. For license activation, dSPACE GmbH uses a ticket-based
0	License Deactivation	system and hosts a database. This database is called dSPACE License Central. To start the activation process, you have to enter the ticket IDs that you received from dSPACE via e-mail. During activation, data is transferred between dSPACE Installation Manager and dSPACE License Central
0	Borrow Licenses	Deta echange va herret
0	Return Borrowed Licenses	
0	Renew Borrowed Licenses	Web Gareway CmContainer
0	Show Ticket Information	
		Vou can activate multiple licenses in one CmContainer (e.g., a CmDongle) in one step. However, it is not possible to activate licenses on multiple CmContainers in one step. The workflow differs depending on how dSPACE Installation Manager can access the CmContainers, as show before the installation Manager can access the CmContainers of the molecular step. The workflow differs depending on how dSPACE installation Manager can access the CmContainers, as show before the molecular step. The workflow differs depending on how dSPACE installation Manager can access the CmContainers, as show before the molecular step. The mol
		Verify Internet Connection
SH	now all use cases	Back Not Garcel
Ready		

4 Select License Activation and click Next.

5 Enter or paste the ticket ID for license activation you received from dSPACE via e-mail in the edit field and click Add.

The license overview displays the required ticked IDs and ticket group IDs as in the following example:

dSPACE

2023-09-12

2021-01-14

License Overview

Sales order Purchase order	April 2-80 Subara Probar ada
	the second se
Your Ref.	Station of Stations

CmContainer: #Licenses are not activated yet

TicketGroup AC	Sroup ACT-2									
Order	Product	Ticket ID	Licensing	License	Maintenance	Expiration	Usage	End User	Delivery	
number			Model	Quantity	Date	Date	Period		Date	
TAS	TargetLink AUTOSAR Module	000000000000000000000000000000000000000	Network	4,00	2023-02-28			Sec. Sec. of	2021-01-14	
TBS	TargetLink Base Suite	THE REPORT OF THE OWNER.	Network	4,00	2023-02-28			Sec. Sectors	2021-01-14	

Date:

Delivery Date:

slp											
i) allati	ions MATLAB Exte	nsions D	ingnostics								
insi	e Overview CmContainer	License Admi	nistration								
t U	Jse Case:										
)	License Activation				E	nter ticket IDs					
D	License Update	To activate 1. Enter or	dSPACE licenses, you must have the relevant paste each ticket ID as you received it from c	t ticket IDs. You car ISPACE.	n enter the ticket IDs as	follows:					
)	License Deactivation	3. Import t Some licen	icket IDs from a file you previously created w ses can be activated in more than one CmCo	ith Installation Man ntainer type. For th	ager. Hese licenses, click the S	elect Target CmContainer Type	button and select t	the desired CmCor	itainer type.		
)	Borrow Licenses		The ID and have	10 10	T ED455 47475	05443 70453 75030		_	4.1.1		
)	Return Borrowed Licenses		licket ID or ticket gr	SUPUD: AC	1-FB4EE-4/A/5	-95443-78AE3-7FD29	,		Add		
	0	Activate	License Name	Targe	t CmContainer Type	Supported Ciricontainer Types	Supported Action	License State	Required WibuKey ID	Confirmation Stat	e Current
5	Show Ticket Information	Control	Nesk ControlDesk	dSPAC	E Activation Container	CmDongle	Activation	Not activated		None	n/a
		Control	lesk Rus Navinator Module			dsPACE Activation Container					
		B	ControlDesk Bus Navigator Module	dSPAC	E Activation Container	CmDongle dSPACE Activation Container	Activation	Not activated		None	n/a
		Control	Nesk ECU Diagnostics Module								
			ControlDesk ECU Diagnostics Module	dSPAC	E Activation Container	CmDongle dSPACE Activation Container	Activation	Not activated		None	n/a
		Control	lesk ECU Interface Module								
			ControlDesk ECU Interface Module	dSPAC	E Activation Container	CmDongle dSPACE Activation Container	Activation	Not activated		None	n/a
		Control	ControlDesk Signal Editor Module	dSPAC	E Activation Container	CmDongle dSPACE Activation Container	Activation	Not activated		None	n/a
		DS1007	GNU Compiler DS1007 GNU Compiler	dSPAC	E Activation Container	CmDonale	Activation	Not activated		None	n/a
						dSPACE Activation Container			_		
		Toggle Ac	tivate Select Target CmContainer Type	Group by: Licen	seName 💽 💌					Imp	ort from File.
			Back			Next			Cancel		
200	w all use cases										

The ticket information is provided by dSPACE License Central.

- **6** Select the licenses you want to activate.
- 7 Click Choose CmContainer Type and select the desired CmContainer type: (CmDongle or dSPACE Activation Container).

Activate	License Name	Target CmContainer Type	Supported CmContainer Types
	ControlDesk Bus Navigator Module	dSPACE Activation Container	CmDongle dSPACE Activation Container
	ControlDesk ECU Diagnostics Module	dSPACE Activation Container	CmDongle dSPACE Activation Container
	ControlDesk ECU Interface Module	dSPACE Activation Container	CmDongle dSPACE Activation Container
	ControlDesk Signal Editor Module	dSPACE Activation Container	CmDongle dSPACE Activation Container
4			
Toggle Ad	ctivate Select Target CmContainer Type.	Group by: None	•

- 8 Click Next.
- 9 Select LAN access.

dSPACE Installation Manager displays all accessible CmContainers.

dyPACE Installation Manager	
Help	
Installations MAILAB Extensions Diagnostics	
License Oveniew CmContainer License Administration	
Select CmContainer for License Activation	
License Update Select access to CmContainer: Local access Local access dSPACE hardware File-based access Select the CmContainer on which to activate the license. Only CmContainer corresponding to the Target CmContainer type you specified on the previous viscand page are displayed. If the	
License Deactivation ConContainer type is dSPACE Activistion Container, you can create a new instance interest of using an existing one. For LAN access an "Installation Manager - Extended Admini license is required Target Circuit Container Manager - Standards and Serial Number CircContainer Type is dSPACE Activistion Container Serial Number CircContainer Manager - Extended Admini license is required	
Borrow Licenses	
Return Borrowed Licenses	
Renew Borrowed Licenses	
Show Ticket Information	
Create New CircContainer Joilate Firmware Make Dougle LIDs Flash	C Rescan
Book Finish Cancel	

10 Click Create New CmContainer if no CmActLicense container is available or if you want to create a new one.

Select the server on which you want to create the CmActLicense container from the list and click OK.

noose Server		
Choose target server: MyServer		1.
)
Show address	Show name	
	Cancel	OK

After creating the CmActLicense container, dSPACE Installation Manager displays a confirmation prompt with the serial number of the new CmContainer:

CmActLic	ense created	×
1	Successfully created CmActLicense '130-1035942853'.	
		_

11 Select the target CmDongle or CmActLicense container.

dsp.ak	E Installation Manager										
Help											
installa	tions MATLAB Ext	ensions Diagnostics									
Licens	e Overview CmContainer	License Administration									
Select	Use Case: License Activation			Select	t CmContainer	for Lice	nse A	ctivatio	on		
۲	License Update	Select access to Select the CmContaine	CmContainer: on which to activate the licer	Only CmConta	ess LAN acces iners corresponding to the Targe	s C	dSPAC	E hardware	evious wizard p	File-based access age are displayed. If the	
	License Deactivation	Target CmContainer	Name	Serial Number	CmContainer Type	WibuKey ID	Location	Server Address	Server Name	Firmware Update	
0	Borrow Licenses	0	dSPACE Activation Container	130-1035942853	dSPACE Activation Container	n/a	LAN	192-168-253-1	Lic-1	not required	
	Return Borrowed Licenses										
\bigcirc	Renew Borrowed Licenses										
\odot	Show Ticket Information										
		Create New CmContai	Update Firmware Mal	ke Dongle LEDs Flas	h						C Rescan
III Sh	ow all use cases		Back		Fi	nish				Cancel	
adv											

12 Click Finish.

A confirmation prompt is displayed.



13 Click Yes to start the activation process.

dSPACE Installation Manager automatically performs the data exchange with dSPACE License Central and displays the activation result as follows:

e dSPACE Installation Manager Help	
Installations MATLAB	ions Diagnostics Leensing
License Overview CmContainer L	icense Administration
License Activation	License Activation Completed
C License Update	State of the processed licenses:
License Deactivation	License Name License State Confirmation State Current CmContainer Ticket
Borrow Licenses Return Borrowed Licenses Renew Borrowed Licenses Show Ticket Information	Loning Activated Continued 130-1 DSP96-5C01C-28
Show all use cases	Save to File Back Close Cancel

14 Click Close.

Result

You activated floating network licenses. The licenses are now ready for use.

How to Activate Licenses (Hardware Access to CmContainer)

Objective	To activate hardware licenses in a CmContainer located on a dSPACE hardware system that can be accessed by dSPACE Installation Manager via LAN.
Basics on working with hardware licenses	Hardware licenses are a specific type of licenses that are used when a license must permanently enable license-protected features directly on a dSPACE hardware system. Hardware licenses reside in a software-based CmContainer called dSPACE Hardware Container which is stored directly on the dSPACE hardware.
	 If you have ordered the dSPACE hardware system together with the license- protected feature, the hardware is delivered with an activated hardware license. In this case, you can use the feature directly. No further steps are required for licensing.
	 If you have ordered the license-protected features separately from the hardware at a later date, you will receive the necessary ticket information from dSPACE. You must then activate the license on the hardware by yourself.
	Currently, dSPACE offers the following license-protected features, which must be enabled directly on the hardware:
	 SCALEXIO Hypervisor Extension (for the SCALEXIO system) Required license: SCLX_HVR_KVM_LIC

 Advanced feature package for the MicroLabBox II Required license: MLBX2_AFP_LIC

Note

Moving an activated hardware license to another hardware system is not possible.

A hardware license can be activated only once. Deactivation is not possible. Therefore you cannot move the license from one dSPACE hardware system to another system, for example, from one MicroLabBox II to another.

• Carefully plan your work before you activate a license.

Note

Activating multiple hardware licenses on one dSPACE hardware system

If you have purchased multiple hardware licenses for the same licenseprotected feature, make sure that only one license is activated on each dSPACE hardware system. It is currently technically possible to activate multiple licenses on the same hardware, but you should not do this.

- Before you select a hardware system for activation, be sure that there is no activated license on it.
- You cannot deactivate a hardware license that was activated, for example, by mistake. This means that this license can no longer be used on any other dSPACE hardware system. In such a case, contact dSPACE Support (www.dspace.com/go/supportrequest).

Preconditions	 dSPACE Installation Manager is installed on your PC. An Internet connection for accessing dSPACE License Central exists. A ticket ID for license activation containing a hardware license is available. The dSPACE hardware system (MicroLabBox II or SCALEXIO) is accessible directly from your PC via LAN.
Method	To activate licenses (hardware access to CmContainer)
	 From Start – dSPACE Installation Manager, select dSPACE Installation Manager. dSPACE Installation Manager opens.

2 Click the Licensing – License Administration tab.

dSPACE Installation Manager	- D ×
Help	
Instellations MATLAB Extensions	Diagnotics Learning
License Overview CmContainer License	e Administration
Select Use Case:	
License Activation	License Activation
C License Update	To use license-protected dSPACE software, you have to activate the licenses. For license activation, dSPACE GmbH uses a ticket-based system and hosts a database. This database is called dSPACE License Central. To start the activation process, you have to enter the ticket
License Deactivation	IDs that you received from dSPACE via e-mail. During activation, data is transferred between dSPACE Installation Manager and dSPACE License Central.
Borrow Licenses	Data sectorarge val herrert
Return Borrowed Licenses	
Renew Borrowed Licenses	Web Gateway Tricent Ds
Show Ticket Information	
	You can activate multiple licenses in one CmContainer (e.g. a CmDongle) in one step. However, it is not possible to activate licenses on multiple CmContainer in one step. The workflow differs depending on how dSPACE Installation Manager can access the CmContainer, as shown below. For LNN access, the Installation Manager - Estended Admin license is regulared to at access. The Installation Manager - Stended Roman BARCE Installation Manager Can access the CmContainer, as defined access. The Installation Manager - Estended Roman BARCE Installation Manager Can access the Installation Manager - Estended Roman BARCE Installation Manager Can access the Installation Manager - Estended Roman BARCE Installation BARCE Insta
	Verify Internet Connection
Show all use cases	Back Next Cancel
Ready	

3 Select License Activation and click Next.

4 Enter or paste the ticket ID for license activation you received from dSPACE via e-mail in the edit field and click Add.

The license overview displays the required ticket IDs and ticket group IDs as in the following example:

License Overview			dSPACE						
Sales order Purchase order Your Ref.	AU-021040 molecume 40000000 - Induren Automation			Date: Delive	ery Date:	2024-02-22 2024-02-22	2		
CmContainer: #Li	censes are not activated yet								
TicketGroup AC	- AND A CONTRACT CONTRACT								
Order number	Product	Ticket ID	Licensing Model	License Quantity	Maintenance Date	Expiration Date	Usage Period	End User	Delivery Date
SCLX_HVR_KVM_LIC	SCALEXIO Hypervisor Extension	DSP33-BF72C-2I	Hardware	1,00				Name and Persons	2024-02-22

😹 ds Help R. ns MATLAB Extensions Diagnosti 9 License Overview Cm Use Case Select Use Case: License Activ Enter ticket IDs O License Update License Deactivatio Borrow Licenses Ticket ID or ticket group D: DSPCA-64E75-F9CB7-10110-10100 Add O Return Borrowed Li CmContainerTyp Renew Borrowed Licenses O Show Ticket Inf Toggle Activate Select Target CmContainer Type... Group by: LicenseName Import from File ...

The ticket information is provided by dSPACE License Central.

- . R. MATLAB Extensions Diagnostics view CmCo License Over • L Enter ticket IDs O License Update O Borr Ticket ID or ticket group ID: Add O R Target CmContainer Type Supp nerTypes Supported Action License State Confirmation State Current O Re • Toggle Act Import File. 6
- **5** Select the license you want to activate and click Next.

6 Click dSPACE Hardware at the bottom of the pane to edit the URL or IP address of the connected dSPACE hardware.

😸 dSPACE	Installation Manager IIII		• ×
Help	Licensing (Legacy)		
() Installation	MATLAB Extensions	Diagnotica Learning	
License C	Verview CmContainer License	e Administration	
Select Use	Case:	Select CmContainer for License Activation	
0 1	icense Update	Select access to CmContainer: Local access LAN access GdSPACE hardware File-based access Set: the CmContainer in which to activate the learners. Only CmContainers of known dSPACE hardware systems are displayed. Use the button below to configure the URLs of dSPACE hardware.	
0.	icense Deactivation	Target CmContainer Name Serial Number CmContainer Type WibuKey ID Location Server Name Firmware Update	
0.	lorrow Licenses		
0 1	letum Borrowed Licenses		
0 1	lenew Borrowed Licenses		
0 9	how Ticket Information		
0 0	longle Migration		
0 6	ile Download for Legacy Licensing		
		Create New CreContainer Update Firmware Make Dongle LEDs Rac SSRACE Hardware.	C Rescan
Show	all use cases	Back Freish Carcol	

The Configure dSPACE Hardware System URLs dialog opens. Use this dialog to register the dSPACE hardware for dSPACE Installation Manager.

7 Click Add and enter the URL or the IP address of the connected dSPACE hardware.

	Туре	Name	Board Name	Serial	Mac Address	Available
tp://10.60.1	SCALEXIO Processing Unit	0	0	1038888	0	True
	Add dSPACE Hardy	vare				
	URL or IP-Address	10.60.		>		
	Validate			Cancel	OK	

8 Click Validate to check if a suitable dSPACE hardware system is available for this address. After the check, dSPACE Installation Manager displays a corresponding message with the result. If the address is valid, the hardware type and the serial number of the hardware are displayed.
	Туре	Name	Board Name	Serial	Mac Address	Available
p://10.60	SCALEXIO Processing Unit	0	0	103	0	True
	Add dSPACE Hardv	ware				
	URL or IP-Address	1.159.2	Tuno-			
	Validate	PACE Hardwa	are type= action	Cance		
				Carrie		

- 9 Click OK and Close to register the added URL and hardware.
- **10** Click Create New CmContainer and select the target dSPACE hardware on which you want to create the new CmContainer.

elp Licensing (Legacy)		
allations MATLAB Extensions	Diagnostica Licensing	
cense Overview CmContainer License	Administration	
ect Use Case: Uicense Activation	Select CmContainer for License Activation	
C License Update	Select access to CmContainer: CLocal access CLAN acce	
License Deactivation	Target CmContainer Name Serial Number CmContainer Type WibuKey ID Location Server Name Firmware Update	
Borrow Licenses		
Return Borrowed Licenses	Create new CmContainer on dSPACE hardware	
) Renew Borrowed Licenses	Target dSPACE hardware: http://10.611.ttll/2/.HardwareType=MicroLabBox II, Serial=1407/711	
Show Ticket Information		
) Dongle Migration	dSPACE Hardware Cancel DK	
) File Download for Legacy Licensing	A	
	Create New CmContainer Jodate Firmware Make Dongle LED: Flach dSPACE Hardware	C Resca

- **11** Click OK to confirm the selection of the target dSPACE hardware.
- 12 Click Yes to start creating the new CmContainer.



After creating the CmContainer, dSPACE Installation Manager displays a confirmation prompt with the serial number of the new CmContainer:



13 Click OK.

14 To activate the license, select the target CmContainer and click Finish.

Note

Activating multiple hardware licenses on one dSPACE hardware system

If you have purchased multiple hardware licenses for the same licenseprotected feature, make sure that only one license is activated on each dSPACE hardware system. It is currently technically possible to activate multiple licenses on the same hardware, but you should not do this.

- Before you select a hardware system for activation, be sure that there is no activated license on it.
- You cannot deactivate a hardware license that was activated, for example, by mistake. This means that this license can no longer be used on any other dSPACE hardware system. In such a case, contact dSPACE Support (www.dspace.com/go/supportrequest).





Click Yes to start the activation process.

dSPACE Installation Manager automatically performs the data exchange with dSPACE License Central and displays the activation result as follows:

🜒 dSPACE Installation Manager			
Help			
Installations MATLAB	sions Diagnostics Licensing		
License Overview CmContainer L	icense Administration		
Select Use Case:			
License Activation		License Activation Comple	ted
C License Update		State of the processed licenses:	
O Licence Deactivation	License Name	License State Confirmation State Current CmContaine	r Ticket
O Elective Dealeman	ControlDent BTC Despendion Montale	Activated Confirmed 130-1	DSP96-5C61C-8
Borrow Licenses			
Return Borrowed Licenses			
Renew Borrowed Licenses			
Show Ticket Information			
			Save to File
Show all use cases	Back	Close	Cancel
Ready			

16 Click Close.

Result

You activated a license-protected feature in a newly created dSPACE Hardware Container on the dSPACE hardware system. The feature is now ready for use.

How to Activate Licenses (File-Based Access to CmContainer)

Objective	To activate single-user and floating network licenses on a CmContainer that is accessible only via manual file transfer from your PC.
General notes and tips	Tip You can activate multiple licenses on one CmContainer in one step.
	Note It is recommended to activate a maximum of 50 licenses in one CmContainer. If you have a larger number of licenses, distribute them over several CmContainers. A higher number of licenses in one CmContainer can lead to long run-times for the activation or update of the licenses.
Preconditions	 An administrator PC (with dSPACE Installation Manager installed) has an Internet connection for accessing dSPACE License Central. CodeMeter Runtime software is installed on the PC with the CmContainer. At least one ticket ID is available.

 A CmContainer (CmDongle or CmActLicense) is available. If no CmActLicense container is available or if you want to create a new one, refer to Manual CmContainer Creation on page 185.

Note

Dongles delivered for dSPACE Releases 2017-A and earlier cannot be used for the new CodeMeter license technology without modifications. Therefore, dongle migration is required for these dongles before you can activate licenses on them. Refer to Dongle Migration on page 53.

To activate licenses (file-based access to CmContainer)

- Create an initial RAC file (*.WibuCmRaC) with CodeMeter Control Center. Refer to How to Create an Initial RAC File on page 133.
- On the administrator PC: From Start dSPACE Installation Manager, select dSPACE Installation Manager.
 dSPACE Installation Manager opens.
- **3** Click the Licensing License Administration tab.
- 4 Select License Activation and click Next.



5 Enter or paste the ticket ID for license activation you received from dSPACE via e-mail in the edit field and click Add.

Method

2023-09-08

2023-09-08

The license overview displays the required ticked IDs and ticket group IDs as in the following example:

License Ove	rview				dS	PACE			
Sales order Purchase order Your Ref. CmContainer: #L	icenses are not activated yet			Date: Delive	ery Date:	2023-09-07 2023-09-08	3		
TicketGroup 🛛 🛲	7 - BARRAN AND AN ANY A DESIGN AN	348 ·							
Order number	Product	Ticket ID	Licensing Model	License Quantity	Maintenance Date	Expiration Date	Usage Period	End User	Delivery Date
CCPPPC	Microtec C PowerPC Cross Compiler	1040 SHO DIG 400 DIG	Local	1,00	2024-03-31			Sugard Specific	2023-09-08
CONTROLDESK	ControlDesk	THE NEW YORK ADDRESS OF	Local	1,00	2024-03-31			Margarit/Terraffic	2023-09-08

The ticket information is provided by dSPACE License Central.

2024-03-31

4,00

allations MATLAB	Extensions E	Nognostics Licensing						
ense Overview CmContaine	r License Adm	inistration						
ect Use Case:	_							
License Activation			E	nter ticket IDs				
License Update	To activate 1. Enter or 2. Enter or 3. Import : Some licer	e dSPACE licenses, you must have the relev r paste each ticket ID as you received it fro r paste a ticket group ID as you received it ticket IDs from a file you previously creater ress can be activated in more than one Cn	vant ticket IDs. You can enter the ticket IDs a vm dSPACE. from dSPACE. d with Installation Manager. rContainer type. For these licenses, click the	s follows: Select Target CmContainer Typ	e button and select ti	he desired CmCon	tainer type.	
Borrow Licenses		Tide (TD - side (05440 70450 7500		_		
Return Borrowed Licenser		licket ID or ticket	group ID: ACT-FB4EE-4/A/5	-95443-78AE3-7ED2	9		Add	
-	Activate	License Name	Target CmContainer Type	Supported Circontainer Type	Supported Action	License State	Required WibuKey ID Confirmat	tion State Current
Kenew Borrowed Licenses Show Ticket Information	Control	Desk ControlDesk	dSPACE Activation Container	CmDongle dSRACE Activation Contains	Activation	Not activated	None	n/a
	Control	Desk Bus Navigator Module ControlDesk Bus Navigator Module	dSPACE Activation Container	CmDongle dSDACE Activation Contains	Activation	Not activated	None	n/a
	Control	Desk ECU Diagnostics Module ControlDesk ECU Diagnostics Module	dSPACE Activation Container	CmDongle dSPACE Activation Containe	Activation	Not activated	None	n/a
	Control	Desk ECU Interface Module ControlDesk ECU Interface Module	dSPACE Activation Container	CmDongle dSPACE Activation Containe	Activation	Not activated	None	n/a
	Control	Desk Signal Editor Module ControlDesk Signal Editor Module	dSPACE Activation Container	CmDongle dSPACE Activation Containe	Activation	Not activated	None	n/a
	D51007	GNU Compiler DS1007 GNU Compiler	dSPACE Activation Container	CmDongle dSPACE Activation Containe	Activation	Not activated	None	n/a
	Toggle A	ctivate Select Target CmContainer Type.	Group by: LicenseName					Import from File

- **6** Select the licenses you want to activate.
- 7 Click Next.

CONTROLDESK_SE ControlDesk Signal Editor Module Network

PLATFORM_API Platform API Package Local 1,00 2024-03-31

8 Select File-based access and enter the path of the RAC file.

dSPACE Installation Manager	
Help	
Installations MATLAB Exter	Récine Diagnostes Licercing
License Overview CmContainer	License Administration
Select Use Case: December 2012 License Activation	Select CmContainer for License Activation
C License Update	Select access to CmContainer: O Local access I LAN access O dSPACE hardware File-based access Select a context (R4C) file of the CmContainer on which to activate the licenses. You can create R4C files with the Wibu-Systems CodeMeter Control center on me
License Deactivation	computer with the CmContainer. Installation Manager then generates an update (RAU) file. You can import this update file to CodeMeter Control Center for the target CmContainer. Aftar the import, the inserser we activated on the CmContainer.
Borrow Licenses	Context file: C:\dspAcE\130-1731677770.WeuCriRac
Return Borrowed Licenses	
Renew Borrowed Licenses	
Show Ticket Information	
Show all use cases	Back Finish Cancel
Ready	🚽 Save as (display

9 Click Finish.

A confirmation prompt is displayed.



- **10** Click Yes to start the activation process.
- **11** Select a folder to store the RAU file in and click Save.

💰 Save As					—
Cor Con	nputer + System (C:) + dSPACE +	• \$	Search dSPAC	CE	٩
Organize 🔻 New	/ folder				0
Downloads	Name	Date	e modified	Type	
Recent Places	📄 🤑 MyCmContainer	21.0	8.2017 10:20	File folder	
詞 Libraries					
Documents					
J Music					
Pictures					
Videos					
🖳 Computer	+ 1	ш			•
File name	130-1731677770 WibuCmBall				_
Save as type:	WibuCmRaU files (*.WibuCmRaU)				
Hide Folders		\langle	Save	Cancel	

Note

You must not rename the file. The file name is the serial number of the CmContainer.

On the basis of the delivered RAC file, dSPACE License Central generates an RAU file (*.WibuCmRaU) that contains information about the activated license.

When the process is completed, dSPACE Installation Manager displays the result as follows:

@ dSPACE Installation Manager		×
Help		
Installations MATLAB	sions Diagnostics Licensing	
License Overview CmContainer	License Administration	
Select Use Case:		
O License Activation	Update File Generation Completed	
C License Update	Use the Wibu-Systems tool CodeMeter Control Center to import this WibuCmRaU file. This activates the licenses on your CmContain Update file: CAdSPACE(130-1731677770.WibuCmRaU	ner.
License Deactivation		
Rorrow Liconcor	State of the processed licenses:	- 11
borrow cicenses	License Name License State Confirmation State Current CmContainer Ticket	
Return Borrowed Licenses	ControlDesk ECU Interface Module Activated Unconfirmed 130-1731677770 DSP25-3227E-1AA31-4E868-40D2	.3
Renew Borrowed Licenses		
Show Ticket Information		
	Save to File	e
	Back Close Cancel	
Show all use cases		
Ready		

- 12 Click Close.
- **13** Transfer the RAU file (*.WibuCmRaU) to the PC with the CmContainer. Do this with a USB stick or via a network folder, for example.
- 14 Update the CmContainer with the delivered RAU file (*.WibuCmRaU). Use CodeMeter Control Center to do this. Refer to How to Update a CmContainer with an RAU File on page 138.
 You updated the CmContainer with an RAU file and created another RA

You updated the CmContainer with an RAU file and created another RAC file to confirm the process.

15 Confirm the license activation. Use dSPACE Installation Manager to do this. Refer to How to Confirm the License Status Manually (File-Based Access to CmContainer) on page 176.

Result

You activated dSPACE software licenses by using the file-based access method. The licenses are now ready for use.

License Activation

License Update

Motivation	License updates are required if the license information of an activated license has been updated by dSPACE.			
Where to go from here	Information in this section			
	Use Cases and Workflows for License Updates			
	How to Update Licenses (Local Access to CmContainer)			
	How to Update Licenses (LAN Access to CmContainer)			
	How to Update Licenses (Hardware Access to CmContainer)			
	How to Update Licenses (File-Based Access to CmContainer)			

Use Cases and Workflows for License Updates

Use cases

A license update becomes necessary if the license information of an activated license is updated by dSPACE. For example, if you purchased a Software Maintenance Service (SMS) contract for your dSPACE product and the maintenance end date is extended, you have to update the license.

When the update becomes available in dSPACE License Central, the licenses to be updated are displayed in dSPACE Installation Manager. To perform the update, you only have to provide access to the relevant CmContainer, for example, by connecting the relevant CmDongle.



The workflow differs depending on how dSPACE Installation Manager can access the CmContainer.

Note

LAN access is disabled by default.

To protect CmContainers on PCs in a LAN from unwanted actions (license activation, license update, license deactivation), LAN access is disabled by default. To use the LAN access feature, a local, activated InstallationManager – Extended Admin license must be available on the PC with Installation Manager. Contact your local dSPACE sales representative or contact dSPACE Support (www.dspace.com/go/supportrequest).



For instructions, refer to How to Update Licenses (Local Access to CmContainer) on page 86.



For instructions, refer to How to Update Licenses (LAN Access to CmContainer) on page 89.





For instructions, refer to How to Update Licenses (Hardware Access to CmContainer) on page 92.

Workflow for file-based access to CmContainer



For instructions, refer to How to Update Licenses (File-Based Access to CmContainer) on page 94.

How to Update Licenses (Local Access to CmContainer)

Objective

To update licenses in a CmContainer that is accessible from dSPACE Installation Manager locally.

Tip

dSPACE Installation Manager supports the update of multiple licenses in one or multiple CmContainers in one step.

When to update	Note				
	Valid for floating network licenses: Depending on the number of the licenses you want to update, updating licenses on a dSPACE License Server might be time-consuming. Therefore, it is recommended to perform license updates on a license server only during maintenance.				
Preconditions	 dSPACE License Central provides an update for activated licenses. An Internet connection for accessing dSPACE License Central exists. The CmContainer (for example, a CmDongle) you want to update is accessible with dSPACE Installation Manager. 				
Method	<section-header><list-item><list-item><list-item></list-item></list-item></list-item></section-header>				
	Show all one canese				

4 Select License Update and then select Local access.

5 Click Next.

dSPACE Installation Manager displays only those licenses of all CmActLicense containers and CmDongles on your PC for which dSPACE provides an update.

🜒 dSPACE Installation Manager			- • •
Help			
Installations MATLAB Exten	sions Diagnostics Licensing		
License Overview CmContainer	License Administration		
Select Use Case:			
C License Activation		Select Licenses for Update	
	Select the licenses to update. Only licenses for which a lice	nse uodate is available are disolaved.	
Cicense opdate	Update License Name	Current CmContainer Ticket ID	
License Deactivation	3-3582494 ControlDesk	3-3529149 DSPB3-44658-BA0D9-48F39-B43D2	
Borrow Licenses	ControlDesk ECU Interface Module	3-3529149 DSP9D-B3E01-7332F-48DF8-03343	
<u> </u>	 ControlDesk Bus Navigator Module 	3-3529149 DSP48-0CE15-84BA6-43C0A-FF959	
Return Borrowed Licenses			
Renew Borrowed Licenses			
Show Ticket Information			
	Toggle Update		C Rescan
Show all use cases	Back	Finish Ca	incel
Ready			

Note

Updatable licenses on a CmDongle are displayed only if the related CmDongle is connected to the PC. Do not remove the CmDongle from the PC during the update process. This causes the update to fail.

- 6 Select the licenses you want to update.
- 7 Click Finish.

A confirmation prompt is displayed.



8 Click Yes to start the update process.

dSPACE Installation Manager automatically performs the data exchange with dSPACE License Central and displays the result as follows:

💰 dSPACE Installation Manager					
Help					
Installations MATLAB Extern	asions Diagnostics				
License Overview CmContainer	License Administration				
License Activation		License Updat	e Complet	ed	
O License Update		State of your proc	cessed licenses:		
C Lisses Destination	License Name	License State Confirmation State	Current CmContainer	Ticket	
Borrow Licenses	ControlDesk ECU Interface Module	Activated Confirmed	3-3582494	DSP14-D65E9-4CCD5-45A28-3E980	
Return Borrowed Licenses					
Renew Borrowed Licenses					
Show Ticket Information					
				s	ave to File
Show all use cases	Back	Close	•	Cancel	
Ready					

9 Click Close.

Result

You updated dSPACE licenses.

How to Update Licenses (LAN Access to CmContainer)

 Objective
 To update licenses in a CmContainer that is accessible from dSPACE Installation Manager via LAN.

 Tip
 dSPACE Installation Manager supports the update of multiple licenses in one or multiple CmContainers in one step.

 When to update
 Note

 Valid for floating network licenses: Depending on the number of the licenses you want to update, updating licenses on a dSPACE License Server might be time-consuming. Therefore, it is recommended to perform license

updates on a license server only during maintenance.

Restriction	Note				
	LAN access is disabled by default. To protect CmContainers on PCs in a LAN from unwanted actions (license activation, license update, license deactivation), LAN access is disabled by default. To use the LAN access feature, a local, activated InstallationManager – Extended Admin license must be available on the PC with Installation Manager. Contact your local dSPACE sales representative or contact dSPACE Support (www.dspace.com/go/supportrequest).				
 Preconditions The PC with the CmContainer is configured as a dSPACE License Server to How to Set Up the dSPACE License Server on page 153. The PC with dSPACE Installation Manager is able to establish a TCP/IP connection to the dSPACE License Server. Refer to How to Set up a Connection Between Client and Server on page 156. dSPACE License Central provides an update for activated licenses. An Internet connection for accessing dSPACE License Central exists. The CmContainer (for example, a CmDongle) you want to update is adwith dSPACE Installation Manager. 					
Method	To update licenses (LAN access to CmContainer)				
	 Connect the CmDongle with the activated InstallationManager – Extended Admin license to the PC with dSPACE Installation Manager. 				
	2 If you want to update the licenses on a CmDongle, connect the CmDongle				
	 From Start – dSPACE Installation Manager, select dSPACE Installation Manager. dSPACE Installation Manager opens 				
	 Click the Licensing – License Administration tab. 				
	<complex-block></complex-block>				

- 5 Select License Update and then select LAN access.
- 6 Click Next.

dSPACE Installation Manager displays all CmActLicense container and all CmDongles that can be accessed via LAN.

- 7 Select the CmContainer that contains licenses to be updated.
- 8 Click Next.

dSPACE Installation Manager displays only those licenses for which dSPACE provides an update.

🗶 dSPACE Installation Manager	
Help	
Installance MATLAS Extensions Degrestics Licensing	
License Overview CmContainer License Administration	
License Activition Select Licenses for Update	
Select the licenses to update. Only licenses for which a license update is available are displayed.	
Update License Name Current CmContainer Ticket ID	
License Deactivation 3-3582494 ControlDesk 3-3529149 DSPB3-44658-BA0D9-48F39-B43D2	
Borrow Licenses ControlDesk ECU Interface Module 3-3529149 DSP9D-83E01-7332F-48DF8-03343	
ControlDesk Bus Navigator Module 3-3529149 DSP48-0CE15-848A6-43CDA-FF959	
Renew Borrowed Licenses	
Show Ticket Information	
Toggle Update	C Rescan
Back Finish Cancel	
leady	

Note

Updatable licenses on a CmDongle are displayed only if the related CmDongle is connected to a PC accessible via LAN. Do not remove the CmDongle from the PC during the update process. This causes the update to fail.

- **9** Select the licenses you want to update.
- **10** Click Finish.

A confirmation prompt is displayed.



11 Click Yes to start the update process.

dSPACE Installation Manager automatically performs the data exchange with dSPACE License Central and displays the result as follows:

💓 dSPACE Installation Manager		
Help		
Installations MATLAB Exten	vions Diagnostics	
License Overview CmContainer	License Administration	
Select Use Case:		
C License Activation	License Update Completed	
O License Update	State of your processed licenses:	
	License Name License State Confirmation State Current CmContainer Ticket	
License Deactivation	ControlDesk ECU Interface Module Activated Confirmed 3-3582494 DSP14-D65E9-4CCD5-45A28-3E98C	
Borrow Licenses		
Return Borrowed Licenses		
Renew Borrowed Licenses		
Show Ticket Information		
	Save tr	o File
Show all use cases	Back Close Cancel	
Ready		

12 Click Close.

Result

You updated dSPACE licenses.

How to Update Licenses (Hardware Access to CmContainer)

Objective	To update hardware licenses stored in a CmContainer located on a dSPACE hardware system that can be accessed by dSPACE Installation Manager via LAN.			
Preconditions	 dSPACE License Central provides an update for activated licenses. An Internet connection for accessing dSPACE License Central exists. The dSPACE hardware system (MicroLabBox II or SCALEXIO) is accessible directly from your PC via LAN. The URL or IP address of the hardware system is known by dSPACE Installation Manager and is therefore displayed in the Configure dSPACE Hardware System URLs dialog. This dialog is accessible via the dSPACE Hardware button. 			
Method	 To update licenses (hardware access to CmContainer) 1 From Start – dSPACE Installation Manager, select dSPACE Installation Manager. 			
	dSPACE Installation Manager opens.			

- Prove version wages
 Prove version
 P
- 2 Click the Licensing License Administration tab.

- **3** Select License Update and then select dSPACE hardware.
- 4 Click Next.

Show all use case

dSPACE Installation Manager displays only those licenses for which dSPACE provides an update.

💰 dSP)	ACE Install	lation Manage	36.5								-		\times
Help													
Installa	ations	MATLAB	Extens	tions	Diagnostics	Licensing							
Licen	ise Overvie	w CmConta	ainer L	icense Adı	ministration								
Select	: Use Case: License	Activation		Select th	e licenses to u	odate. Only licens	ses for which a licens	Select License	s for Update				
	License	e Update		Update		License Name		Current CmContainer	Ticket Id	Accessibility	License Quantity	Maintena	nc
0	License	Deactivation		130-35	82494 MicroLabB	ox II Advanced Fe	eature Package Licens	e Martin Parlamentaria	DSPCA-64E75-F9C	Single-user	1	n/a	
0	Borrow	Licenses											
0	Return	Borrowed Licer	nses										
0	Renew	Borrowed Licer	nses										
0	Show T	icket Informatio	on										
				Toggle I	Update dSP	ACE Hardware						C Resca	in
□ SI	how all use	e cases				Back		Finish			Cancel		

5 Select the licenses you want to update and click Finish. A confirmation prompt is displayed.

Update Licenses?
Do you really want to update the selected licenses? This may take several minutes.
Yes No

6 Click Yes to start the update process.

dSPACE Installation Manager automatically performs the data exchange with dSPACE License Central and displays the result as follows:

dSPACE Installation Manager 24.1				- 0
Help				
istallations MATLAB Extensions	Diagnostics			
License Overview CmContainer Licens	e Administration			
elect Use Case:				
C License Activation	Lice	nse Update Complet	ted	
License Update		State of your processed licenses:		
License Deactivation	License Name	License State Confirmation State	Current CmContainer	Ticket
O Borrow Licenses	MicroLabBox II Advanced Feature Package License	Activated Confirmed	130-4102795474	DSPCA-64E75-F9CB7-4CE8A-48
Return Borrowed Licenses				
Renew Borrowed Licenses				
O Show Ticket Information				
				Save to File.
Channell une entre	Back	Close		Cancel
Show all use cases				
lv.				

7 Click Close.

Result

You updated dSPACE licenses.

How to Update Licenses (File-Based Access to CmContainer)

Objective	To update single-user and floating network licenses on a CmContainer that is accessible only via manual file transfer.	
When to update	Note Valid for floating network licenses: Depending on the number of licenses you want to update, updating licenses on a dSPACE License Server might b time-consuming. Therefore, it is recommended to perform license updates on a license server only during maintenance.	
Preconditions	 dSPACE License Central provides an update for activated licenses. An administrator PC (with dSPACE Installation Manager installed) has an Internet connection for accessing dSPACE License Central. CodeMeter Runtime software is installed on the PC with the CmContainer. 	
Method	 To update licenses (file-based access to CmContainer) 1 Create an initial RAC file (*.WibuCmRaC) with CodeMeter Control Center. Refer to How to Create an Initial RAC File on page 133. 	

- On the administrator PC: From Start dSPACE Installation Manager, select dSPACE Installation Manager. dSPACE Installation Manager opens.
- **3** Click the Licensing License Administration tab.

GPACE installation Manager	- 0 ×
Help	
Restations MATLAB Extensions Depress	
License Deerview CenContainer License Administration	
Select Use Case:	
License Attuation License Update	
Lesset Update A license update becomes necessary If the license information of an activated license is updated by dSPACE. For example, If you purchased a Software Maintenance (SMS) contact for your dSPACE product and the maintenance period is extended, you have to update the license. When the update becomes available in dSPACE (SMS) contact for your dSPACE product and the maintenance period is extended, you have to update the license. When the update becomes available in dSPACE (SMS) contact for your dSPACE product and the maintenance period is extended, you have to update the license. When the update becomes available in dSPACE (SMS) contact for your dSPACE product and the maintenance period is extended, you have to update the license. When the update becomes available in dSPACE (SMS) contact for your dSPACE product and the maintenance period is extended to update the license. When the update becomes available in dSPACE (SMS) contact for your dSPACE product and the maintenance period is extended, you have to update the license. When the update becomes available in dSPACE (SMS) contact for your dSPACE product and the maintenance period is extended to update the license. The update becomes available in dSPACE (SMS) contact for your dSPACE product and the maintenance period is extended, you have to update the license. When the update update becomes available in dSPACE (SMS) contact for your dSPACE product and the maintenance period is extended to update the license. The update the license is the update to update the update to the update to the update to update the update to update the update to the update to the update to the update to update to update to the update	Service icense the
relevant CmDongle. Borrow Licenses The workflow differs depending on how d5PACE Installation Manager can access the CmContainer as shown below. For LAN access the Installation Manager - Extern Admin license is required.	ided
Paturn Borrowed Licenses Select access to the CmContainer: Local access LAN access dSPACE hardware File-based access	
O Renew Borrowed Licenses	
Deer Tekst Monation	
l li	rify Internet Connection
Show all our cours	
Jandy .	

- 4 Select License Update and then select File-based access.
- 5 Click Next.
- **6** Enter the path of the RAC file (*.WibuCmRaC).

e dSPACE Installation Manager	
Help	
Installations MATLAB Extensions Disprotics	
License Overview CmContainer License Administration	
Select Use Case:	
C License Activation Select Context File	
License Update Select a context file (WibuCmRaC) of the CmContainer on which to update licenses. You can create context files with the Wibu-Systems CodeMeter Control Center on the computer with the CmContainer.	
License Deactivation Context file: C:\dSPACE\3-35842494.WibuCmRaC	
Borrow Licenses	
Return Borrowed Licenses	
Renew Borrowed Licenses	
Show Ticket Information	
Back Next Cancel	
Show all use cases	
Ready	

7 Click Next.

dSPACE Installation Manager Help Installations MATLAB Exten	sions Diagnostics			
License Overview CmContainer	License Administration			
Select Use Case:				
C License Activation		Select License	es for Update	
	Select the licenses to update. Only licenses for which a lice	nse update is available are displ	laved.	
Ucense Opdate	Update License Name	Current CmContainer	Ticket ID	
License Deactivation	3-3582494 ControlDesk	3-3529149	DSPB3-44658-BA0D9-48F39-B43D2	
Borrow Licenses	ControlDesk ECU Interface Module	3-3529149	DSP9D-B3E01-7332F-4BDF8-03343	
Return Borrowed Licenses Renew Borrowed Licenses	ControlDesk Bus Navigator Module	3-3529149	DSP48-0CE15-848A6-43C0A-FF959	
Show licket thiormation	Toggle Update			C Rescan
Show all use cases	Back	Fin	ish	Cancel
Ready				

Note

Licenses are displayed only if dSPACE provides an update for them.

8 Select the licenses you want to update and click Next. A confirmation prompt is displayed.

Update lic	censes? 🛛 🗃
1	Do you really want to update the licenses with the specified context file? This may take several minutes.
	Yes No

9 Click Yes to start the update process.

On the basis of the delivered RAC file, dSPACE License Central generates an RAU file (*.WibuCmRaU) that contains information about the licenses which are updated.

10 Select a folder to store the RAU file in and click Save.

Save As	em (C:) ► dSPACE ►	✓ 4y Search dSPACE	2
Organize 🔻 New	folder	8=	• 0
J Music	Name	Date modified 21.08.2017 10:20	Type File folde
Computer System (C:) Dell Desktop SdSPACE PSI5 Solutio	n		
Intel File name: I Save as type: V	+ I30-2409234908.WibuCmRaU VibuCmRaU files (*.WibuCmRaU)	III	4 • •
) Hide Folders		Save	Cancel

Note

Do not rename the file. The file name is the serial number of the CmContainer.

When the process is completed, dSPACE Installation Manager displays the result as follows:

🜒 dSPACE Installation Manager					
Help					
Installations MATLAB	sions Diagnostics				
License Overview CmContainer	License Administration				
Select Use Case:	Upd	ate File	e Generati	ion Comple	eted
License Update	Use the Wibu-Systems tool CodeMete import the license(s) are updated.	r Control Cente	r to import this Wibu	CmRaU file for the targ	get CmContainer. After this
C License Deactivation	Update file: C:\dSPACE\3-358249	4.WibuCmRaU	Resulting update	file:	
		St	ate of your processe	d licenses:	
Borrow Licenses	License Name	License State	Confirmation State	Current CmContainer	Ticket
Return Borrowed Licenses	ControlDesk ControlDesk Bus Navigator Module	Activated Activated	Unconfirmed Unconfirmed	3-3582494 3-3582494	DSP11-E22B5-48714-4734A-55922 DSP14-D65E9-4CCD5-45A2B-3E98C
Renew Borrowed Licenses					
Show Ticket Information					
	L				Save to File
			<i>c</i> i		
Show all use cases	Back		Close		Cancel
Ready					

11 Click Close.

- **12** Transfer the RAU file (*.WibuCmRaU) to the PC with the CmContainer. Do this with a USB stick or via a network folder, for example.
- **13** Update the CmContainer with the delivered RAU file (*.WibuCmRaU). Use CodeMeter Control Center to do this. Refer to How to Update a CmContainer with an RAU File on page 138.
- 14 Confirm the license update. Use dSPACE Installation Manager to do this. Refer to How to Confirm the License Status Manually (File-Based Access to CmContainer) on page 176.

Result

You updated licenses by using the file-based access method.

License Update

License Deactivation

Motivation	Deactivated licenses can be activated again if you want to use them in a different CmContainer.		
Where to go from here	Information in this section		
	Use Cases and Workflows for License Deactivation		
	How to Deactivate Licenses (Local Access to CmContainer)104		
	How to Deactivate Licenses (LAN Access to CmContainer)106		
	How to Deactivate Licenses (File-Based Access to CmContainer)		

Use Cases and Workflows for License Deactivation

Use case

For license deactivation, you transfer activated licenses from a CmContainer back to dSPACE License Central. The deactivated licenses can be activated again if you want to use them in a different CmContainer. dSPACE Installation Manager displays only the licenses that can be deactivated.



The workflow differs depending on how dSPACE Installation Manager can access the CmContainer.

Note

LAN access is disabled by default.

To protect CmContainers on PCs in a LAN from unwanted actions (license activation, license update, license deactivation), LAN access is disabled by default. To use the LAN access feature, a local, activated InstallationManager – Extended Admin license must be available on the PC with Installation Manager. Contact your local dSPACE sales representative or contact dSPACE Support (www.dspace.com/go/supportrequest).



For instructions, refer to:

- How to Update Licenses (Local Access to CmContainer) on page 86
- How to Deactivate Licenses (Local Access to CmContainer) on page 104

Workflow for LAN access



For instructions, refer to:

- How to Update Licenses (LAN Access to CmContainer) on page 89
- How to Deactivate Licenses (LAN Access to CmContainer) on page 106

Workflow for file-based access



For instructions, refer to:

- How to Update Licenses (File-Based Access to CmContainer) on page 94
- How to Deactivate Licenses (File-Based Access to CmContainer) on page 109

How to Deactivate Licenses (Local Access to CmContainer)

Objective	To deactivate single-user and floating network licenses on a CmContainer that is accessible locally on your PC.				
	Tip dSPACE Installation Manager supports the deactivation of multiple licenses in one or multiple CmContainers in one step.				
When to deactivate	Note				
	Valid for floating network licenses: Depending on the number of the licenses you want to deactivate, deactivating licenses on a dSPACE License Server might be time-consuming. Therefore, it is recommended to perform license deactivation on a license server only during maintenance.				
Preconditions	 An Internet connection for accessing dSPACE License Central exists. Only for single-user licenses delivered before October 2019: You performed the license update. Refer to How to Update Licenses (Local Access to CmContainer) on page 86. You can deactivate the license afterwards. 				
Method	To deactivate licenses (local access to CmContainer)				
	1 Connect the CmDongle to your host PC if you want to deactivate the licenses on a CmDongle.				
	 From Start – dSPACE Installation Manager, select dSPACE Installation Manager. dSPACE Installation Manager opens. 				
	3 Click the Licensing – License Administration tab.				

- 谢 dSPACE Insta ā MATLAB Extensions Licensi Diagno License Overview CmCor ner Select Use Case: License Deactivation C License Activation C License Update For license deactivation be activated again if y be deactivated. you transfer activated licenses from a CmContainer back to dSPACE License Central. The deacti want to use them on a different CmContainer. dSPACE Installation Manager displays only the l License Deact 0 The workflow differs ting on how dSPACE Installation Manager can access the CmContainer as shown below. For LAN access th Borrow Licenses is required Return Bo Select access to the CmContainer: O Local access File-ba Renew Borrowed Lic Show Ticket Infor] SPACE Verify Internet Co Back Show all use cases
- 4 Select License Deactivation and then select Local access.

5 Click Next.

dSPACE Installation Manager displays only licenses that can be deactivated.

🐮 dSPACE Installation Manager				(
Help					
Installations MATLAB Extensions Di	agnostics				
License Overview CmContainer License Admir	nistration				
Select Use Case:					
C License Activation	Sele	ect Licenses	s for Deactivation		
Select the li	icenses to deactivate. Only the licenses that can be d	eactivated are displayed	d.		
Deactivate	License Name	Current CmContainer	Ticket ID		
License Deactivation	9 ControlDesk ECU Diagnostics Module	3-3529149	DSP14-D65E9-4CCD5-45A28-3E98C		
	dSPACE Variable Editor	3-3529149	DSP5E-65521-F1F2C-47A1B-5294D		
Borrow Licenses	ECU Interface Base Package	3-3529149	DSP98-09712-54E9E-43918-1430C		
	HighTec C Compiler for Freescale MPC5xxx	3-3529149	DSP96-89FF9-6855E-419AB-74C1F		
Return Borrowed Licenses	HighTec C Compiler for Infineon TriCore	3-3529149	DSP4C-C42FE-7643F-41658-65334		
	HighTec C Compiler for Renesas V850/RH850	3-3529149	DSP49-D1B0F-8F1DB-454FA-D8EAD		
Kenew Borrowed Licenses	RTI Ethernet I/O Package	3-3529149	DSP11-E2285-48714-4734A-55922		
Show Ticket Information	SCALEXIO Failure Simulation for 1000 Functions	3-3529149	DSP58-DF406-FAB8E-40E58-A04E2		
Toggle De	activate				C Rescan
Show all use cases	Back	1	Finish	Cancel	
Ready					

6 Select the licenses you want to deactivate.

7 Click Finish.

A confirmation prompt is displayed.

Deactivate licenses?	
Do you really want to d	eactivate the selected licenses?
⊻es	<u>N</u> o Cancel

8 Click Yes to start the deactivation.

dSPACE Installation Manager automatically performs the data exchange with dSPACE License Central and displays the deactivation result as follows:

dSPACE Installation Manager Help							
Installations MATLAB Exte	resions Diagnostics Licensing						
License Overview CmContainer	License Administration						
Select Use Case:		Licens	e Deactiv	ation Com	pleted		
C License Update	You may want to save the displayed ticke	et information to	a file. You can later i State of the pr	mport this file if you wa ocessed licenses:	int to activate the licen	ses again.	
License Deactivation	License Name	License State	Confirmation State	Current CmContainer	Recent CmContainer	Ticket	
Borrow Licenses Return Borrowed Licenses Renew Borrowed Licenses Show Ticket Information	ControlDesk ECU Diagnostics Module	Not activated	Confirmed	n/a	3-3529149	DSP25-3227E-1AA31-4	IE868-40D23
Show all use cases	Back		Ci	DSE		Cancel	Save to File

9 A message asking you if you want to save the ticket information to an XML file is displayed.

Click Yes to save the file to a location of your choice.

Tip

Your are recommended to save the ticket information, for example, to activate the licenses again later.

10 Click Close.

Result

You deactivated the selected licenses.

How to Deactivate Licenses (LAN Access to CmContainer)

Objective

To deactivate single-user and floating network licenses on a CmContainer that is accessible in a LAN.

Tip

dSPACE Installation Manager supports the deactivation of multiple licenses in one or multiple CmContainers in one step.

When to deactivate	Note
	Valid for floating network licenses: Depending on the number of the licenses you want to deactivate, deactivating licenses on a dSPACE License Server might be time-consuming. Therefore, it is recommended to perform license deactivation on a license server only during maintenance.
Restriction	Note
	LAN access is disabled by default.
	To protect CmContainers on PCs in a LAN from unwanted actions (license activation, license update, license deactivation), LAN access is disabled by default. To use the LAN access feature, a local, activated InstallationManager – Extended Admin license must be available on the PC with Installation Manager. Contact your local dSPACE sales representative or contact dSPACE Support (www.dspace.com/go/supportrequest).
Preconditions	 The PC with the CmContainer is configured as a dSPACE License Server. Refer to How to Set Up the dSPACE License Server on page 153. The PC with dSPACE Installation Manager is able to establish an TCP/IP connection to the dSPACE License Server. Refer to How to Set up a Connection Between Client and Server on page 156. An Internet connection for accessing dSPACE License Central exists. Only for single-user licenses delivered before October 2019: You performed the license update. Refer to How to Update Licenses (Local Access to CmContainer) on page 86. You can deactivate the license afterwards.
Method	To deactivate licenses (LAN access to CmContainer)
	 Connect the CmDongle with the activated InstallationManager – Extended Admin license to the PC with dSPACE Installation Manager.
	2 If you want to deactivate the licenses on a CmDongle, connect the CmDongle to the PC configured as dSPACE License Server.
	3 From Start – dSPACE Installation Manager, select dSPACE Installation Manager.
	dSPACE Installation Manager opens.
	4 Click the Licensing – License Administration tab.

dSPACE Installation Manager	
Help	
Installations MATLAB Extens	ians Desprottes Licensing
License Overview CmContainer	kense Administration
License Activation	License Deactivation
License Update License Deactivation Borrow Licenses	For license deachation, you transfer achivated licenses from a CmContainer back to dSPACE License Central. The detectivated licenses can be activated again if you want to use them on a different CmContainer. dSPACE Installation Manager displays only the licenses that can be deachivated. The workforw differs depending on how dSPACE Installation Manager can access the CmContainer as shown below. For LAN access the Installation Manager - Extended Admin license is required.
Return Borrowed Licenses	Select access to the CmContainer:
Renew Borrowed Licenses Show Ticket Information	
Show all use cases	Verly Internet Connection Back Next Cancel
eady	

5 Select License Deactivation and then select LAN access.

6 Click Next.

dSPACE Installation Manager displays all CmActLicense container and all CmDongles that can be accessed via LAN.

7 Select the CmContainer that contains licenses to be deactivated.

8 Click Next.

dSPACE Installation Manager displays only licenses that can be deactivated.

🜒 dSPACE Installation Manager					
Help					
Installations MATLA8	sions Diag	Inostics			
Select Lize Care	cicente Automa				
License Activation		Sele	ect License	s for Deactivation	
C License Update	Select the lice Deactivate	nses to deactivate. Only the licenses that can be o License Name	leactivated are displaye Current CmContainer	d. Ticket ID	
License Deactivation	3-2929149	ControlDesk ECU Diagnostics Module	3-3529149	DSP14+D65E9+4CCD5+45A28+3E98C	
Borrow Licenses		dSPACE Variable Editor ECU Interface Base Package	3-3529149 3-3529149	DSP5E-65521-F1F2C-47A1B-5294D DSP9B-09712-54E9E-43918-1430C	
Return Borrowed Licenses		HighTec C Compiler for Freescale MPC5xxx HighTec C Compiler for Infineon TriCore	3-3529149 3-3529149	DSP96-89FF9-6855E-419AB-74C1F DSP4C-C42FE-7643F-41658-65334	
Renew Borrowed Licenses		HighTec C Compiler for Renesas V850/RH850 RTI Ethernet I/O Package	3-3529149 3-3529149	DSP49-D180F-8F1DB-454FA-D8EAD DSP11-E2285-48714-4734A-55922	
Show Ticket Information		SCALEXIO Failure Simulation for 1000 Functions	3-3529149	DSP58-DF406-FAB8E-40E58-A04E2	
	Toggle Deac	tivate			C Rescan
Show all use cases		Back		Finish	Cancel
Ready					

Note

Deactivatable licenses on a CmDongle are displayed only if the related CmDongle is connected to a PC accessible via LAN. Do not remove the CmDongle from the PC during the update process. This causes the update to fail.

9 Select the licenses you want to deactivate.
10 Click Finish.

A confirmation prompt is displayed.



11 Click Yes to start the deactivation.

dSPACE Installation Manager automatically performs the data exchange with dSPACE License Central and displays the deactivation result as follows:

dSPACE Installation Manager Help					
Installations MATLAB Exte	ensions Diagnostics Licensing				
License Overview CmContainer	License Administration				
C License Activation		License Deactiv	ation Comp	oleted	
C License Update	You may want to save the displayed ticke	it information to a file. You can later i State of the pr	mport this file if you war ocessed licenses:	nt to activate the licen	ses again.
O Lisense Desetivation	License Name	License State Confirmation State	Current CmContainer	Recent CmContainer	Ticket
Borrow Licenses Return Borrowed Licenses Renew Borrowed Licenses Show Ticket Information					
Show all use cases	Back	CI	ose		Save to File
ıdy					

12 Click Close.

Result

You deactivated the selected licenses.

How to Deactivate Licenses (File-Based Access to CmContainer)

Objective

To deactivate single-user and floating network licenses in a CmContainer that is accessible only via manual file transfer from the host PC.

Tip

dSPACE Installation Manager supports the deactivation of multiple licenses in one or multiple CmContainers in one step.

Restriction	Nete				
Restriction	Note For deactivating single-user licenses, you have to contact dSPACE. You can deactivate single-user licenses only if dSPACE approved the deactivation. However, you can deactivate floating network licenses at any time.				
Preconditions	 An administrator PC (with dSPACE Installation Manager installed on it) has an Internet connection for accessing dSPACE License Central. CodeMeter Runtime software is installed on the PC with the CmContainer. A CmDongle is available (mandatory for deactivating single-user licenses). Only for single-user licenses delivered before October 2019: You performed the license update. Refer to How to Update Licenses (Local Access to CmContainer) on page 86. You can deactivate the license afterwards. 				
Method	 To deactivate licenses (file-based access to CmContainer) 1 Create an initial RAC file (*.WibuCmRaC) with CodeMeter Control Center. Refer to How to Create an Initial RAC File on page 133. 2 On the administrator PC: From Start – dSPACE Installation Manager, select dSPACE Installation Manager. dSPACE Installation Manager opens. 3 Click the Licensing – License Administration tab. 4 Select License Deactivation and then select File-based access. 				
	<complex-block></complex-block>				

land

- 😻 dSPACE Installation Manager - • • Help Licensi R A R. MATLAB Diagnostics License Overview CmContainer License Administration Select Use Case: Select Context File License Activation Select a context file (WibuCmRaC) of the CmContainer from which to deactivate licenses. You can create context files with the Wibu-Systems CodeMeter Control Center on the computer with the CmContainer. C License Update Context file: C:\dSPACE\130-2409234908.WibuCmRaC ... O License Deactivation License Name Current CmContainer Ticket Borrow Licenses ControlDesk ECU Interface Module 130-2409234908 DSP25-3227E-1AA31-4E868-40D23 \checkmark Return Borrowed Licenses Renew Borrowed Licenses Show Ticket Information Toggle 'Deactivate' C Rescan Back Show all use cases Ready
- **5** Enter the path of the RAC file (*.WibuCmRaC).

6 Select the licenses you want to deactivate and click Finish. A confirmation prompt is displayed.

Deactivate	e licenses?
?	Do you really want to deactivate the licenses with the specified context file?
	Yes No

7 Click Yes to start the deactivation process.

On the basis of the delivered RAC file, dSPACE License Central generates an RAU file (*.WibuCmRaU) that contains information about the deactivated license.

8 Select a folder to store the RAU file in and click Save.



Note

Do not rename the file. The file name is the serial number of the CmContainer.

When the process is completed, dSPACE Installation Manager displays the result as follows:

😻 dSPACE Installation Manager		
Help		
Installations MATLAB	sions Diagnostics	
License Overview CmContainer	icense Administration	
Select Use Case:		
License Activation	Update File Generation	n Completed
C License Update	You can import this update file to CodeMeter Control Center for the targe licenses are deactivated on that CmContainer.	t CmContainer. After the import, the
	Update file of the license dea	ctivation:
License Deactivation	Update file: C\\dSPACE\130-2409234908.WibuCmRaU	
C Recent Lineare	State of the processed lice	inses:
Borrow Licenses	License Name License State Confirmation State	Current CmContainer Recent CmContainer
Return Borrowed Licenses	ControlDesk ECU Interface Module Not activated Unconfirmed	n/a 130-2409234908 DSP
Renew Borrowed Licenses		
Show Ticket Information		
		Save to File
Show all use cases	Back Close	Cancel
Ready		

9 Click Close.

- **10** Transfer the RAU file (*.WibuCmRaU) to the PC with the CmContainer. Do this with a USB stick or via a network folder, for example.
- **11** Update the CmContainer with the delivered RAU file (*.WibuCmRaU). Use CodeMeter Control Center to do this. Refer to How to Update a CmContainer with an RAU File on page 138.
- **12** Confirm the license deactivation. Use dSPACE Installation Manager to do this. Refer to How to Confirm the License Status Manually (File-Based Access to CmContainer) on page 176.

Result

You deactivated the selected licenses by using the file-based access method.

License Borrowing

You can borrow floating network licenses from a CmContainer to a dSPACE Borrow Container or to a CmDongle. This way you can block a license for exclusive use. You can also use it on a PC without a network connection.				
Information in this section				
Use Cases for License Borrowing113				
How to Borrow Licenses				
How to Return Borrowed Licenses				
How to Renew Borrowed Licenses				

Use Cases for License Borrowing

Advantages	 License borrowing offers the following advantages: A borrowed license does not require access to the source CmContainer while you are working with it. You can use it on a PC that is not connected to the dSPACE License Server.
	 A borrowed license is treated like an exclusive single-user license. This means that it is blocked for other users of the floating network license and guaranteed to be available on the PC with the dSPACE Borrow Container or the target CmDongle.
	 Because borrowed floating network licenses are handled like single-user licenses, they can be used for legacy licensing using CodeMeter licenses. Refer to Legacy Licensing Using CodeMeter Licenses on page 197.

Basics on borrowing dSPACE licenses

You can borrow floating network licenses from a CmContainer (on a dSPACE License Server) to a dSPACE Borrow Container (software-based CmContainer) or to a CmDongle. Licenses can be borrowed for a specific period of time after which they are automatically available again in the source CmContainer.

Note

- Borrowed licenses decrease the number of licenses available on the dSPACE License Server.
- A license update might be necessary to make your floating network licenses borrowable.



For instructions, refer to How to Borrow Licenses on page 115.

Returning borrowed licenses

You can manually return borrowed licenses to the source CmContainer to make them available again before the borrow period expires.



For instructions, refer to How to Return Borrowed Licenses on page 120.



Renewing borrowed licenses You can renew borrowed licenses to extend the borrow period before it expires.

For instructions, refer to How to Renew Borrowed Licenses on page 123.

How to Borrow Licenses

Objective	To borrow floating network licenses from a CmContainer on a dSPACE License Server for exclusive access, even without connection to the dSPACE License Server.
Preconditions	 The local PC must be connected to the dSPACE License Server with the source CmContainer at the moment of borrowing. The licenses must be borrowable. You can check this in the Borrowing column on the License Overview page in the dSPACE Installation Manager.
Method	To borrow licenses
	 From Start – dSPACE Installation Manager, select dSPACE Installation Manager. dSPACE Installation Manager opens.
	2 Click the Licensing – License Administration tab.

🛞 dSPACE Installation Manager								
Help								
Installations MATLAB Extensions	Diagnostics Licensing							
License Overview CmContainer License Administration								
Select Use Case:								
C License Activation	Borrow Licenses							
C License Update	You can borrow floating network licenses from a CmContainer (on a dSPACE License Server) to a dSPACE Borrow Container (software-based CmContainer) or to a CmDongle. A borrowed license is treated like an exclusive single-user license. It does not							
C License Deactivation	require access to the source CmContainer while working with it. Licenses can be borrowed for a specific period of time. You can							
Borrow Licenses	manually return borrowed licenses to the source CmContainer to make them available again before the borrow period expires.							
Return Borrowed Licenses								
Renew Borrowed Licenses	CmContainer							
Show Ticket Information	dSPACE License Server Installation Manager							
Show all use cases	Back Next Cancel							
Ready								

3 Select Borrow Licenses and click Next.

The Installation Manager checks for borrowable floating network licenses and displays them.

Balandon MiLLAB Desprotizio WiLLAB Evension Desprotizio Desprotizio Desprotizio Describio Locunia ente Ovrview Incontainer License Dystation Incontainer Describio License Lipdate License Dystation Supportizio Storow Licenses Incontainer Describio ConfigurationDesk - Implementation Version (100) Storow Licenses Show Ticket Information Describio ConfigurationDesk - Implementation Version (100) Show Ticket Information SPACE Borrow Container Describio ConfigurationDesk - Implementation Version (100) Show Ticket Information SPACE Borrow Container Describio ConfigurationDesk - Implementation Version (100) Show Ticket Information SPACE Borrow Container Describio ConfigurationDesk - Implementation Version (100) Show Ticket Information VEOS - Virtual LIN Show Ticket Information VEOS - Virtual CAN Show Ticket Information VEOS - Virtual CAN Show Ticket Information SPACE Borrow Container ControlDesk SPACE Borrow Container	dSPACE Installation Manager							- 8
Note: Note: <th< td=""><td>Help</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Help							
cense Overview CmContainer License Administration ett Use Case: Borrow Licenses i. License Activation i. License Activation i. License Desctivation Encode the licenses from which you want to borrow. Some licenses can be borrowed to more than one CmContainer Type #Available #Borrowed Licenses Quantify Max BI iB Borrow Licenses Borrow Licenses Return Borrowed Licenses ConfigurationDesk - Implementation Version (100) dSPACE Borrow Container 10 0 10 90d Show Ticket Information ConfigurationDesk - Implementation Version (200) dSPACE Borrow Container 0 10 90d VEOS - Virtual LIN dSPACE Borrow Container 0 10 90d dSPACE Borrow Container 0 10 90d VEOS - Virtual CAN dSPACE Borrow Container 0 0 10 90d dSPACE Borrow Container 0 10 90d dSPACE Borrow Contain	istallations MATLAB Extensions	Diagnostics Licensing						
ext Use Case: License Activation License Update License Update License Deactivation License Deactivation ConfigurationDesk - Implementation Version (100) dSPACE Borrow Container	License Overview CmContainer License	Administration						
License Activation Encrew Licenses License Update Choose the licenses from which you want to borrow. Some licenses can be borrowed to more than one CmContainer type. For these licenses, click the Select Target CmContainer Type Borrow License Choose the licenses from which you want to borrow. Some licenses are borrowed to more than one CmContainer type. For these licenses, click the Select Target CmContainer Type Borrow License ConfigurationDesk - Implementation Version (100) dSPACE Borrow Container 10 0 10 90d ConfigurationDesk - Implementation Version (1000) dSPACE Borrow Container CmDongle 10 0 10 90d ConfigurationDesk - Implementation Version (200) dSPACE Borrow Container CmDongle 10 0 10 90d GSPACE Borrow Container ConfigurationDesk - Implementation Version (300) dSPACE Borrow Container CmDongle 10 0 10 90d GSPACE Borrow Container ConfigurationDesk - Implementation Version (300) dSPACE Borrow Container CmDongle 10 0 10 90d dSPACE Borrow Container GPACE Borrow Container	elect Use Case:							
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License Deactivation Borrow License Target CmContainer Type Supported CmContainer Type #Available #Borrowed License Quantity Max B Borrow Licenses ConfigurationDesk - Implementation Version (100) dSPACE Borrow Container CmOongle 10 0 10 9d Return Borrowed Licenses ConfigurationDesk - Implementation Version (200) dSPACE Borrow Container CmOongle 10 0 10 9d Show Ticket Information ConfigurationDesk - Implementation Version (300) dSPACE Borrow Container CmOongle 10 0 10 9d Show Ticket Information ConfigurationDesk - Implementation Version (300) dSPACE Borrow Container CmOongle 10 0 10 9d VEOS - Sow Ticket Information VEOS - Virtual CAN dSPACE Borrow Container CmOongle 20 0 20 9d VEOS - Virtual CAN dSPACE Borrow Container CmOongle 20 0 20 9d 9d VEOS - Virtual CAN dSPACE Borrow Container CmOongle 20 0 20 9d 9d VEOS - Virtual CAN dSPACE Borrow Container CmOongle	C License Update	Choose the licenses from which you want to borrow. Some licens CmContainer Type button and select the desired target CmConta	ses can be borrowed to more ainer type.	than one CmContainer type. For	these licens	es, click the S	elect Target	
License Descrivation ConfigurationDesk - Implementation Version (100) dSPACE Borrow Container 0 10 90d Borrow Licenses ConfigurationDesk - Implementation Version (1000) dSPACE Borrow Container 0 10 90d Return Borrowel Licenses ConfigurationDesk - Implementation Version (200) dSPACE Borrow Container 0 10 90d Show Ticket Information ConfigurationDesk - Implementation Version (300) dSPACE Borrow Container 0 10 90d VEOS - Virtual CAN ConfigurationDesk - Implementation Version (300) dSPACE Borrow Container 0 10 90d VEOS - Sase ConfigurationDesk - Implementation Version (300) dSPACE Borrow Container 0 10 90d VEOS - Virtual CAN dSPACE Borrow Container Concongle 20 0 20 90d VEOS - Virtual LIN dSPACE Borrow Container Concongle 20 0 20 90d VEOS - Virtual LIN dSPACE Borrow Container Concongle 20 0 20 90d VEOS - Virtual LIN dSPACE Borrow Container ControlDesk dSPACE Borrow Container 20 0 20		Borrow License Name	Target CmContainer Type	Supported CmContainer Types	#Available	#Borrowed	License Quantity	Max Be
Borrow Licenses ConfigurationDesk - Implementation Version (1000) dSPACE Borrow Container CmDongle 10 0 10 90d Memory Borrowed Licenses ConfigurationDesk - Implementation Version (200) dSPACE Borrow Container CmDongle 10 0 10 90d Show Ticket Information ConfigurationDesk - Implementation Version (300) dSPACE Borrow Container CmDongle 10 0 10 90d VEOS - Sase dSPACE Borrow Container ConfigurationDesk - Implementation Version (300) dSPACE Borrow Container 10 0 10 90d VEOS - Sase dSPACE Borrow Container CmDongle 20 0 20 90d VEOS - Virtual CAN dSPACE Borrow Container CmDongle 20 0 20 90d VEOS - Virtual CAN dSPACE Borrow Container CmDongle 20 0 20 90d VEOS - Virtual LIN dSPACE Borrow Container CmDongle 20 0 20 90d VEOS - Virtual LIN dSPACE Borrow Container CmDongle 20 0 20 90d ControlDesk dSPACE Borrow Container		ConfigurationDesk - Implementation Version (100)	dSPACE Borrow Container	CmDongle dSPACE Borrow Container	10	0	10	90d 🔺
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Renew Borrowed Licenses ConfigurationDesk - Implementation Version (300) dSPACE Borrow Container CmDongle 10 0 10 90d Show Ticket Information ConfigurationDesk - Implementation Vers. MultiCore dSPACE Borrow Container CmDongle 10 0 10 90d VEOS - Sase dSPACE Borrow Container CmDongle 20 0 20 90d VEOS - Virtual CAN dSPACE Borrow Container CmDongle 20 0 20 90d VEOS - Virtual CAN dSPACE Borrow Container CmDongle 20 0 20 90d VEOS - Virtual ECU dSPACE Borrow Container CmDongle 20 0 20 90d VEOS - Virtual ECU dSPACE Borrow Container CmDongle 20 0 20 90d VEOS - Virtual IN dSPACE Borrow Container ControlDesk dSPACE Borrow Container ControlDesk dSPACE Borrow Container ControlDesk dSPACE Borrow Container ControlDesk 90d dSPACE Borrow Container GSPACE Borrow Co	Return Borrowed Licenses	ConfigurationDesk - Implementation Version (200)	dSPACE Borrow Container	CmDongle dSPACE Borrow Container	10	0	10	90d
Show Ticket Information ConfigurationDesk - Implementation Vers. MultiCore dSPACE Borrow Container CmDongle 10 0 10 90d VEOS - Sase dSPACE Borrow Container CmDongle 20 0 20 90d VEOS - Virtual CAN dSPACE Borrow Container CmDongle 20 0 20 90d VEOS - Virtual CAN dSPACE Borrow Container CmDongle 20 0 20 90d VEOS - Virtual ECU dSPACE Borrow Container CmDongle 20 0 20 90d VEOS - Virtual LIN dSPACE Borrow Container CmDongle 20 0 20 90d VEOS - Virtual LIN dSPACE Borrow Container CmDongle 20 0 20 90d ControlDesk dSPACE Borrow Container CmDongle 20 0 20 90d GSPACE Borrow Group by: None ControlDesk S 0 5 0 5 Toggle Borrow Select Target CmContainer Type Group by: None Show borrow details for selected licenses: Cancel Show all use cases Next Cancel	Renew Borrowed Licenses	ConfigurationDesk - Implementation Version (300)	dSPACE Borrow Container	CmDongle dSPACE Borrow Container	10	0	10	90d
Image: Select Target CmContainer Type. Group by: None Show borrow details for selected licenses: Image: Cancel	Show Ticket Information	ConfigurationDesk - Implementation Vers. MultiCore	dSPACE Borrow Container	CmDongle dSPACE Borrow Container	10	0	10	90d
Image: Next Sector S	-	VEOS - Base	dSPACE Borrow Container	CmDongle dSPACE Borrow Container	20	0	20	90d
VEOS - Virtual ECU dSPACE Borrow Container CmDongle 20 0 20 90d VEOS - Virtual LIN dSPACE Borrow Container CmDongle 20 0 20 90d ControlDesk dSPACE Borrow Container CmDongle 20 0 20 90d ControlDesk dSPACE Borrow Container CmDongle 20 0 20 90d Toggle Borrow Select Target CmContainer Type Group by: None Show borrow details for selected licenses: Cancel		VEOS - Virtual CAN	dSPACE Borrow Container	CmDongle dSPACE Borrow Container	20	0	20	90d
Image: VEOS - Virtual LIN dSPACE Borrow Container CmDongle 20 0 20 90d Image: ControlDesk dSPACE Borrow Container CmDongle 4 1 5 90d Image: ControlDesk dSPACE Borrow Container CmDongle 4 1 5 90d Image: ControlDesk dSPACE Borrow Container CmDongle 4 1 5 90d Image: ControlDesk ControlDesk dSPACE Borrow Container CmDongle 5 0 S 90d Image: ControlDesk ControlDesk Group by: None Show borrow details for selected licenses: Image: Concel Image: Concel Image: Borrow Back Next Cancel Image: Concel Image: Concel		VEOS - Virtual ECU	dSPACE Borrow Container	CmDongle dSPACE Borrow Container	20	0	20	90d
Image: ControlDesk dSPACE Borrow Container ControlDesk dSPACE Borrow Container A 1 5 90d Image: ControlDesk ControlDesk dSPACE Borrow Container ControlDesk GSPACE Borrow Container S 0 S		VEOS - Virtual LIN	dSPACE Borrow Container	CmDongle dSPACE Borrow Container	20	0	20	90d
Image: Select Target CmContainer Type. Group by: None Show borrow details for selected licenses: Image: Cancel Back Next Cancel		ControlDesk	dSPACE Borrow Container	CmDongle dSPACE Borrow Container	4	1	5	90d
Toggle Borrow Select Target CmContainer Type Group by: None Show borrow details for selected licenses: C Rescan Back Next Cancel		ControlDark - Onerstor Version	dSDACE Rorrow Container	CmDonale	5	٥	5	≤004 ×
Back Next Cancel		Toggle Borrow Select Target CmContainer Type Group b	oy: None	Show borrow details for select	ed licenses:			C Rescan
anov en use cases	Show all use cares	Back	Next			G	ancel	

Column	Description				
Borrow	Lets you select checkboxes to specify the licenses you want to borrow.				
License Name	The name of the license.				
Target CmContainer Type	The selected CmContainer type that the license is to be borrowed to. You can specify the target CmContainer type by using the Select Target CmContainer Type button.				
Supported CmContainer Types	The types of CmContainer you can borrow the license to.dSPACE Borrow ContainerCmDongle				
#Available	The number of available licenses in the source floating network license. Must be at least 1. Otherwise, you cannot select the Borrow checkbox.				
#Borrowed	The number of licenses that are currently borrowed from the source floating network license.				
License Quantity	Maximum number of licenses available in the floating network license.				
Max Borrow Period	The maximum period of time for which you can borrow the license. You can manually return borrowed licenses to make them available again before the borrow period expires. Refer to How to Return Borrowed Licenses on page 120.				
	Note				
	The maximum borrow period for dSPACE licenses delivered or updated as of 03/09/22 has been extended to 180 days. However, to be able to use this maximum period without restrictions, you must also extend the borrow history on the dSPACE License Server via CodeMeter WebAdmin to 200 days. The default setting is 100 days. For instructions, refer to How to Set Up the dSPACE License Server on page 153.				
Product Code	The product code identifies the dSPACE software product associated with the license entry via a unique code.				

The following columns are displayed by default:

Tip

- Click a column header to sort the licenses by a column.
- To add or remove columns, right-click the Borrow Licenses page and select Configure Columns. In the Configure Columns dialog, select the columns you want to display. For more information on the additional columns, refer to How to Show Available Licenses and Their Attributes on page 40.
- Use the Group by: list to group the licenses according to different criteria. For example, you can group them by their CmContainer or server name.
- 4 Select the licenses you want to borrow in the Borrow column.

Тір

- Use the **Shift** or **Ctrl** key to highlight multiple licenses and the Toggle Borrow button to select their checkboxes.
- Select the Show borrow details for selected licenses checkbox to display information on the borrow status of the highlighted licenses. This shows you to which CmContainers licenses have already been borrowed and for how long.

noose th id select	e licenses from which you want to borrow. Some licens the desired target CmContainer type.	ses can be borrowed to more	than one CmContainer type. For	these licens	es, click	the Select Target CmContainer Type button
lorrow	License Name	Target CmContainer Type	Supported CmContainer Types	#Available	#Bc	Borrow Details for Selected Licenses
	ConfigurationDesk - Implementation Version (100)	dSPACE Borrow Container	CmDongle dSPACE Borrow Container	10	0 🔺	Shows the borrowed items of the currently selected lice
	ConfigurationDesk - Implementation Version (1000)	dSPACE Borrow Container	CmDongle dSPACE Borrow Container	10	0	Expires on:
	ConfigurationDesk - Implementation Version (200)	dSPACE Borrow Container	CmDongle dSPACE Borrow Container	10	0	CmContainer:
	ConfigurationDesk - Implementation Version (300)	dSPACE Borrow Container	CmDongle dSPACE Borrow Container	10	0	Expires on:
	ConfigurationDesk - Implementation Vers. MultiCore	dSPACE Borrow Container	CmDongle dSPACE Borrow Container	10	0	CmContainer:
	VEOS - Base	dSPACE Borrow Container	CmDongle dSPACE Borrow Container	19	1	
	VEOS - Virtual CAN	dSPACE Borrow Container	CmDongle dSPACE Borrow Container	19	1	
	VEOS - Virtual ECU	dSPACE Borrow Container	CmDongle dSPACE Borrow Container	19	1	
	VEOS - Virtual LIN	dSPACE Borrow Container	CmDongle dSPACE Borrow Container	19	1	
	ControlDesk	dSPACE Borrow Container	CmDongle	5	0	

5 Click Next.

The Enter borrow period dialog opens.

6 In the Enter borrow period dialog, enter the period for which you want to borrow the licenses. The licenses will automatically expire in the borrow container and become available on the server again after that period. By default, the borrow period is set to one day.

Enter borrow p	eriod			
	Days 5	Hours 0	Minutes : 0	
			Cancel	ок

7 Click OK.

The Select Target CmContainer page opens.

8 Select the CmContainer you want to borrow the licenses to in the Target CmContainer column.

If no target CmContainer is available, click Create New CmContainer to create a new dSPACE Borrow Container. If the target CmContainer just became available, for example, after you connected a CmDongle, click Rescan.

🕏 dSPACE Installation Manager				
Help				
Installations MATLAB Extensions	Diagnostics			
License Overview CmContainer License	Administration			
Select Use Case:				
License Activation		Select Target Cr	nContainer	
License Update	Select the local CmContainer on which to borrow t page are displayed. For some CmContainer types y	he licenses. Only CmContainers corresponding rou can create a new instance instead of using a	to the Target CmContainer type you spe in existing one.	cified on the previous wizard
Licence Deactivation	Target CmContainer Name	Serial Number CmContainer Type	WibuKey ID Location Server Address	Server Name Firmware Update
License Deactivation	O dSPACE Borrow Container	dSPACE Borrow Container	n/a Local	not required
O Borrow Licenses				
Return Borrowed Licenses				
Renew Borrowed Licenses				
Show Ticket Information				
	Create New CmContainer Update Firmware	lake Dongle LEDs Flash		C Rescan
Show all use cases	Back	Finish		Cancel

- 9 Click Finish.
- **10** Click Yes in the confirmation prompt.



The Installation Manager borrows the selected licenses to the selected target CmContainer and the License Borrowing Completed page showing a summary of the results opens.

Tip

For a large number of licenses, the borrow process might take a while.

Ø dSPACE Installation Manager		• ×
Help		
Lisease Quantieur ConContainer Lisease		
Select Use Case:	e Administration	
C License Activation	License Borrowing Completed	
License Update	Information about the processed licenses:	
	License Name Result CmContainer Expires On Borrow Source Info	
License Deactivation	VEOS - Base Borrowed	
O Borrow Licenses	VEOS - Virtual CAN Borrowed VEOS - Virtual ECU Borrowed	
Return Borrowed Licenses	VEOS - Virtual LIN Borrowed	
Renew Borrowed Licenses		
Show Ticket Information		
	Back Close Cancel	
Show all use cases		
Ready		

Result

You borrowed licenses. They are exclusively available to you until the borrow period expires or you return them.

How to Return Borrowed Licenses

Objective	To make borrowed licenses available again in the borrow source CmContainer before the borrow period expires.
Precondition	The local PC must be connected to the dSPACE License Server with the source CmContainer.
Method	To return borrowed licenses
	 From Start – dSPACE Installation Manager, select dSPACE Installation Manager. dSPACE Installation Manager opens. Click the Licensing – License Administration tab.

e dSPACE Installation Manager	
Help	
Installations MATLAB Extensions	Diagnostics Licensing
License Overview CmContainer License	Administration
Select Use Case:	
C License Activation	Return Borrowed Licenses
C License Update	You can manually return borrowed licenses before the borrow period expires. This will make them available again in the source CmContainer on a dSPACE License Server. Borrowed licenses are automatically available again as soon as the borrow period expires.
C License Deactivation	
Borrow Licenses	
Return Borrowed Licenses	CmContainer
Renew Borrowed Licenses	
Show Ticket Information	Installation Manager
Show all use cases	Back Cancel
Ready	

3 Select Return Borrowed Licenses and click Next.

The Installation Manager checks local dSPACE Borrow Containers and CmDongles for borrowed licenses and displays them.

ed dSPACE Installation Manager	x
Help	
Installations MATLAB Extensions Diagnostics	
License Overview CmContainer License Administration	
Select Use Case:	<u> </u>
License Activation Return Borrowed Licenses	
License Update Choose the borrowed licenses to be returned.	
Return License Name Borrow Expiration Date Borrow Source CmContainer Product Code	
License Deactivation VEOS - 9886 1220	
VEOS - Virtual ECU	
Borrow Licenses	
Return Borrowed Licenses	
Renew Borrowed Licenses	
Show Ticket Information	
Toggle Return Group by: None Show only licenses with available Borrow Source CmContainer:	
Back Finish Cancel	
Ready	

Column	Description
Return	Lets you select checkboxes to specify the licenses you want to return.
License Name	The name of the license.
Child Licenses ¹⁾	The name of the licenses contained in the displayed license. The properties of the child licenses are included in the displayed parent license.
Borrow Expiration Date	The date and time when the borrow period expires.
Borrow Source	The serial number of the CmContainer the license is borrowed from.
CmContainer	The serial number of the CmContainer the license is borrowed to.
CmContainer Name ¹⁾	The name of the CmContainer the license is borrowed to.
CmContainer Type ¹⁾	The type of the CmContainer the license is borrowed to, dSPACE Borrow Container or CmDongle.
Product Code	The product code identifies the dSPACE software product associated with the license entry via a unique code.
Borrow Server Name ¹⁾	The server name of the dSPACE License Server the license is borrowed from.

The following columns are available:

¹⁾ Not displayed by default.

Tip

- To add or remove columns, right-click the Return Borrowed Licenses page and select Configure Columns. In the Configure Columns dialog, select the columns you want to display.
- By default, only licenses whose source CmContainer is available are displayed. To show all borrowed licenses, clear the Show only licenses with available Borrow Source CmContainer checkbox. However, you cannot select licenses in the Return column whose source CmContainer is not available.
- Click a column header to sort the licenses by a column.
- Use the Group by: list to group the licenses according to different criteria. For example, you can group them by their CmContainer or server name.
- 4 Select the licenses you want to return in the Return column.

Tip

Use the **Shift** or **Ctrl** key to highlight multiple licenses and the Toggle Return button to select their checkboxes.

5 Click Finish.

6 Click Yes in the confirmation prompt.



The Installation Manager returns the selected licenses to their source CmContainer and the Return Borrowed Licenses Completed page showing a summary of the results opens.

_		
Т	iD	
	· P	

For a large number of licenses, the return process might take a while.



Result

You returned borrowed licenses.

How to Renew Borrowed Licenses

Objective

To extend the borrow period of borrowed licenses before it expires.

Precondition	The local PC must be connected to the dSPACE License Server with the sour CmContainer.				
Method	To renew borrowed licenses				
	 From Start – dSPACE Installation Manager, select dSPACE Installation Manager. dSPACE Installation Manager opens. 				
	2 Click the Licensing – License Administration tab.				
	3 Select Renew Borrowed Licenses and click Next.				
SPACE Installation Manager	- 🗆 X				
Help					
Installations MATLAB Extensions	Diagnostics Licensing				
License Overview CmContainer License	Administration				
Select Use Case:					
C License Activation	Renew Borrowed Licenses				
C License Update	You can renew borrowed licenses to extend the borrow period before it expires.				
C License Deactivation					
Borrow Licenses	Source CmContainer dSPACE Borrow Container				
Return Borrowed Licenses	License A: License B: License B:				
Renew Borrowed Licenses	dSPACE License Server				
Show Ticket Information	Installation Manager				
Show all use cases	Back Next Cancel				
Ready					

💰 dSPACE Installation Manager	-		×
Help			
Installations Image: Concentration Image: Concentra			
Select the Grave			_
C License Activation Renew Borrowed Licenses			
C License Update Select the borrowed licenses to renew.			_
Renew License Name Borrow Expiration Date Borrow Source CmContainer Product Code			
License Deactivation			
Borrow Licenses			
Return Borrowed Licenses			
Renew Borrowed Licenses			
Show Ticket Information			
Licenses: 2			
Toggle Renew Group by: None Show only licenses with available Borrow Source CmContainer:		C Resca	in
Back Next Cancel			
Ready			

dSPACE Installation Manager checks local dSPACE Borrow Containers and CmDongles for borrowed, renewable licenses and displays them.

The following columns are available:

Column	Description
Renew	Lets you select checkboxes to specify the licenses you want to renew.
License Name	The name of the license.
Child Licenses ¹⁾	The name of the licenses contained in the displayed license. The properties of the child licenses are included in the displayed parent license.
Borrow Expiration Date	The date and time when the borrow period expires.
Borrow Source	The serial number of the CmContainer the license is borrowed from.
CmContainer	The serial number of the CmContainer the license is borrowed to.
CmContainer Name ¹⁾	The name of the CmContainer the license is borrowed to.
CmContainer Type ¹⁾	The type of the CmContainer the license is borrowed to, dSPACE Borrow Container or CmDongle.
Product Code	The product code identifies the dSPACE software product associated with the license entry via a unique code.

Column	Description
Borrow Server Name ¹⁾	The server name of the dSPACE License Server the license is borrowed from.

¹⁾ Not displayed by default.

Tip

- To add or remove columns, right-click the Renew Borrowed Licenses page and select Configure Columns. In the Configure Columns dialog, select the columns you want to display.
- By default, only licenses whose source CmContainer is available are displayed. To show all borrowed, renewable licenses, clear the Show only licenses with available Borrow Source CmContainer checkbox. However, you cannot select licenses in the Renew column whose source CmContainer is not available.
- Click a column header to sort the licenses by a column.
- Use the Group by: list to group the licenses according to different criteria. For example, you can group them by their CmContainer or server name.
- 4 Select the licenses you want to renew in the Renew column.

Tip

Use the **Shift** or **Ctrl** key to highlight multiple licenses and the Toggle Renew button to select their checkboxes.

5 Click Next.

The Enter borrow period dialog opens.

6 In the Enter borrow period dialog, enter the period for which you want to renew the borrowed licenses. The licenses will automatically expire in the borrow container and become available on the server again after that period. By default, the borrow period is set to one day.



7 Click Yes in the confirmation prompt.



dSPACE Installation Manager renews the borrow period of the selected licenses on the selected target CmContainer and the Renew Borrowed Licenses Completed page showing a summary of the results opens.

For a large number of licenses, the renew process might take a while.

💰 dSPACE Installation Manager							-	×
Help								
Installations MATLAB Extensions	Diagnostics Licensing							
License Overview CmContainer License A	dministration							
Select Use Case:						_		
License Activation	R	enew	Borrowe	d Licenses	Comple	ted		
C License Update			State of	the processed licenses				
License Deactivation	License Name	Result	CmContainer	Expires On	Borrow Source	Info		
	VEOS - Base	Borrowed	44.4023-0-7	100.000.000	130-1441411060			4
O Borrow Licenses	VEOS - AUTOSAK Adaptive Platform	borrowed			150-1441411000			
Return Borrowed Licenses								
Renew Borrowed Licenses								
Show Ticket Information								
	Back			Close			Cancel	
Show all use cases	Dack			CIUSE			Cancer	
Ready								

Tip

Result

You extended the borrow period of borrowed licenses.

License Borrowing

Moving Activated Licenses Between CmContainers

Use Cases and Workflows for Moving Licenses

Use cases	 The licenses activated on one CmDongle should be split to two CmDongle so that two users can work in parallel with separate CmDongles. The licenses activated on a floating network license server should be hosted on a new license server. The number of licenses in a CmContainer has reached a critical size. Therefore certain licenses should be moved to another CmContainer.
	Note It is recommended to activate a maximum of 50 licenses in one CmContainer. If you have a larger number of licenses, distribute them over several CmContainers. A higher number of licenses in one CmContainer can lead to long run-times for the activation or update of the licenses.
Focus of workflows	Tip The workflows show the steps for online activation/deactivation using dSPACE Installation Manager.

Workflow

There are separate workflows for the different types of CmContainer.



Further information

ТоDo	Basics	Instructions
License deactivation	Basics on License Management on page 12	How to Deactivate Licenses (Local Access to CmContainer) on page 104
		How to Deactivate Licenses (LAN Access to CmContainer) on page 106
		How to Deactivate Licenses (File-Based Access to CmContainer) on page 109

ТоDo	Basics	Instructions
License activation	Basics on License Management on page 12	How to Activate Licenses (Local Access to CmContainer) on page 60
		How to Activate Licenses (LAN Access to CmContainer) on page 64
		How to Activate Licenses (File-Based Access to CmContainer) on page 75

Executing Steps in CodeMeter Control Center (for File-Based Access)

Motivation	If you use the file-based method for license activation, deactivation or license updates, you have to execute some steps in CodeMeter Control Center.
Where to go from here	Information in this section
	How to Create an Initial RAC File

How to Create an Initial RAC File

Objective	If you use the file-based method for license activation, deactivation or license updates, you first have to create an initial RAC file (*.WibuCmRaC) with CodeMeter Control Center.
Remote access to CmContainer	You can use a remote desktop tool to access the PC with the CmContainer. This tool can be installed on the PC with dSPACE Installation Manager or any other PC in the LAN to control CodeMeter software and to transfer files manually between the PCs.
	Remote access is useful if you want to access multiple CmContainers and work with CodeMeter software installed on the PCs from only one administrator PC. Another use case is to manage single-user licenses that are not accessible directly in a LAN. For more information, refer to Methods for Accessing CmContainers on page 17.

Precondition

- CodeMeter Runtime software is installed on the PC with the CmContainer.
- The CmContainer (CmDongle or CmActLicense container) on which you want to activate, update, or deactivate licenses is accessible with CodeMeter Control Center.

If no CmActLicense container exists on your PC or you want to create a new one, you first have to import a license information file (LIF) that you created with dSPACE Installation Manager beforehand. Refer to How to Create a License Information File (LIF) on page 187.

Method

To create an initial RAC file

1 On the PC with the CmContainer: From Start – CodeMeter, select CodeMeter Control Center.

CodeMeter Control Center opens and list all accessible CmContainers on the License page.



- **2** If the CmContainer you want to use is displayed, continue with step 5.
 - If you want to create a new CmActLicense container on the PC, continue with the next step.

3 Select File – Import License and import a LIF from a USB stick or a network folder, for example.



CodeMeter Control Center displays the following confirmation prompt:

CodeMeter		? ×
i	Information: Import of CmActLicense Firm Item template	was successful.
		ОК

4 Click OK.

CodeMeter Control Center creates an empty CmActLicense container and displays it as follows:



5 Select the CmContainer for which you want to create an RAC file and click License Update.



6 Click Next and select Create license request to create an RAC file (*.WibuRaC).



- **7** Click Next to continue.
- **8** If you want to create an RAC file for a CmActLicense container, continue with step 11.

9 Only if you use CmDongles: Select Extend existing license.



Click Next and select the vendor "dSPACE (6000107)".

	?	×
← ⓒ CmFAS Assistant		
Please choose the vendor		
GIN (dSPACE (6000107)		
Select the software vendor to which you want to send the license request file. The vend the data which you select here. So you can ensure that the vendor doesn't see which ot from other vendors you have.	lor will on ther licens	y see ses
Next >	<u>H</u> e	lp

Click Next to continue.

10 Select a folder to store the RAC file and click **Commit**.

	?	Х
← ⓒ CmFAS Assistant		
Please select the file name		
C:/dSPACE/3-3582494.WibuCmRaC		
Select a file name for storing the license request file. Then dick on 'commit' to create the fil then send this file to the vendor by email.	le. You	can
		4
Commit	Не	łp

Note

Do not rename the file. The file name is the serial number of the CmContainer.

CodeMeter Control Center creates the RAC file and displays the result as follows:



11 Click Finish.

Result	You created an initial RAC file for the selected CmContainer.
Next steps	 Transfer the RAC file (*.WibuCmRaC) to the administrator PC. Do this with an USB stick or via a network folder, for example. If you created the RAC file for a new CmActLicense container, you first have to request a RAU file for the new container. Refer to How to Request an RAU File for the New CmActLicense Container on page 189 If you select an existing CmActLicense container, refer to (depending on your other the new container).
	 Worktiow): How to Activate Licenses (File-Based Access to CmContainer) on page 75
	 How to Update Licenses (File-Based Access to CmContainer) on page 94
	 How to Deactivate Licenses (File-Based Access to CmContainer) on page 109

How to Update a CmContainer with an RAU File

Objective

After you request an RAU file via dSPACE Installation Manager, you have to update the CmContainer with this file.

Remote access to CmContainer	You can use a remote desktop tool to access the PC with the CmContainer. This tool can be installed on the PC with dSPACE Installation Manager or any other PC in the LAN to control CodeMeter software and to transfer files manually between the PCs.			
	Remote access is useful if you want to access multiple CmContainers and work with CodeMeter software installed on the PCs from only one administrator PC. Another use case is to manage single-user licenses that are not accessible directly in a LAN. For more information, refer to Methods for Accessing CmContainers on page 17.			
Preconditions	 CodeMeter Runtime software is installed on the PC with the CmContainer. An RAU file (*.WibuCmRaU) requested via dSPACE Installation Manager is available. The CmContainer (e.g., CmDongle) you want to update is accessible with CodeMeter Control Center. 			
Method	 To update a CmContainer with an RAU file 1 On the PC with the CmContainer: From Start – CodeMeter, select CodeMeter Control Center. CodeMeter Control Center opens and lists all accessible CmContainers on the License page. 			
	CodeMeter Control Center File Process View Help License Events State 3-3487998 Name: dSPACE Activation Container State dSPACE Dongle #33907 Serial: 130-2409234908 State dSPACE Activation Container Serial: 130-2409234908 State GSPACE Activation Container Version: CmActLicense 3.00 State GSPACE Activation Container 30-3000405610			

WebAdmin

Status: 😋 License activated

Remove License

License Update

CodeMeter is started.

- ? ×
 ← ⓒ CmFAS Assistant
 Welcome to the CmFAS Assistant!
 The CodeMeter Field Activation Service (CmFAS) assistant helps you adding, changing and deleting licenses from the license management system CodeMeter.
 With the CmFAS assistant you can create license request files, which you can send to the vendor of the software by email. You can also import the received license update files with the CmFAS assistant into the license management and create a receipt of the import for the vendor.
 Next > Help
- 2 Select the CmContainer you want to update and click License Update.

3 Click Next and select Import license update to import the RAU file.



4 Click Next and enter the path of the RAU file.



5 Click **Commit** to start the import process.

CodeMeter Control Center performs the update and displays the update result as follows:



6 Click here in the dialog to create an RAC file (***.WibuCmRaC**) for confirming the license update.

Note

- If you click Finish in the dialog, you have to use an indirect way to create an RAC file. See below.
- If you click here, proceed with step 7.
- Click License Update.
- Click Next in the following dialog.



Select Create receipt.



- Click Next.
- For CmDongles: Select the vendor (dSPACE 6000107) of the CmContainer you want to create the RAC file for.

			?	\times
S Assistant				
pose the vendor				
(6000107)				
tware vendor to which you w	ant to send the rece	ipt file. The vendor will	only see th	ne dat
ect here. So you can ensure t nave.	hat the vendor does	sn't see which other lice	nses from (other
		Next >	Н	elp
	AS Assistant DOOSE the vendor E (6000107) oftware vendor to which you w lect here. So you can ensure to have.	AS Assistant Doose the vendor E (6000107) Pftware vendor to which you want to send the rece lect here. So you can ensure that the vendor does have.	AS Assistant boose the vendor E (6000107) Pftware vendor to which you want to send the receipt file. The vendor will letct here. So you can ensure that the vendor doesn't see which other lice have.	AS Assistant AS Assistant Coose the vendor E (6000107) Oftware vendor to which you want to send the receipt file. The vendor will only see th letch there. So you can ensure that the vendor doesn't see which other licenses from have. Next > Hi

Click Next.

7 Select a folder to store the RAC file and click Commit.



Note

Do not rename the file. The file name is the serial number of the CmContainer.

CodeMeter Control Center creates the RAC file and displays the result as follows:



8 Click Finish.

Result You updated the CmContainer with an RAU file and created another RAC file to confirm the process.

Next stepsYou now have to confirm the activation, update or deactivation process. Refer to
How to Confirm the License Status Manually (File-Based Access to CmContainer)
on page 176 .
Using Floating Network Licenses

Motivation	dSPACE software products support floating network licenses.	
Where to go from here	Information in this section	
	Basics on Using Floating Network Licenses	
	Basics on Setting Up a License Server and the License Clients	
	How to Set Up the dSPACE License Server	153
	How to Set up a Connection Between Client and Server	156
	License-Specific Linger Times	160

Basics on Using Floating Network Licenses

Principle of floating network licenses	Floating network licenses are useful when a limited number of licenses for a software product has to be shared among a larger number of users.
	When a user wants to run a software product or a license-protected process, the software requests a license from a central license server. If a license is available, the license server allows the software or the process to run. When the user closes the software product or the license-protected process, the license is reclaimed by the license server and made available to other users (client PCs) connected to the license server.
	Using floating network licenses requires a permanent TCP/IP connection between server and client.

Supported CmContainer types

Floating network licenses are typically stored in CmActLicense containers, but it is also possible, to store floating network licenses on CmDongles.



In case of a defect or a planned upgrade of the license server, the CmDongle only has to be plugged into the new license server. Users can immediately work with the licenses again.

Identifying floating network licenses

The type of a license is shown in dSPACE Installation Manager. On the License Overview page, the Accessibility column displays Floating network. Refer to the following screenshot:



An important attribute of floating network licenses is the license quantity, which defines the number of licenses that can be used in parallel on client PCs. The license quantity is also displayed on the License Overview page.

The license quantity is also stated in the license overview PDF file (provided by dSPACE via e-mail) that also contains the ticket IDs.

Identifying CmActLicenses

A software-based CmActLicense container that is suitable for storing floating network licenses is called dSPACE Activation Container. The serial number of such a container always begins with 130. Example: 130-1186644671.

The following screenshot shows an example for a dSPACE Activation Container. It is displayed on the CmContainer page in dSPACE Installation Manager.

	e) dSPACE Installation Manager – Help				
	Installations Image: Application series Image: Application series Image: Application series Installations Image: Application series Image: Application series Image: Application series				
	Leave overweit Childhow Childh				
	License Overview CmContainer License Administration				
	Name Serial Number CmContainer Type WibuKey ID Location Version Firmware Update Server Ad				
	idSPACE Dongle (C) 3-3608083 CmDongle 0 (0x0) LAN 3.11 required 10.1.100 A_11A+004714 Supremede dSPACE Activation Container 130-1731677770 dSPACE Activation Container 1 n/a				
	AndreamWinder Container 130-1500/77-0 daries retrivation container 1/10 2017 5:0 not required 10:1702 AndreamWinder August 4 dSPACE Activation Container 130-2442691942 dSPACE Activation Container 1/10 LAN 3.0 not required 10:1702				
	1111 Aber with the dispace det dSPACE Activation Container 130-1227507507 dSPACE Activation Container n/a LAN 3.0 not required 10.1.191				
	Group by: Type Show only local items: Show items from dSPACE hardware: dSPACE Hardware Show only regular dSPACE CmContainers: Ready				
Searching for licenses	Usually, floating network licenses are requested from dSPACE software installed on client PCs connected to a server via a TCP/IP connection. However, they also can be requested by dSPACE software installed locally on the PC that also hosts the floating network licenses (i.e., the license server). dSPACE software products first search for a local CmContainer with the required license. If they do not find a relevant local CmContainer, they search for CmContainers that are stored on license servers.				
icense behavior of floating network licenses	Licenses are <i>checked</i> and <i>blocked</i> , for example, when a product or a process is started.				
	The license is <i>released</i> immediately after the product or the process is closed. If a license has a linger time, the license is released after the linger time has elapsed Then, the license can be used by other license clients.				
	The linger time of a specific floating network license is shown in dSPACE Installation Manager. On the License Overview page, the Linger time entry displays the specified time in the format <i>hh:mm:ss</i> . For all products the linger time is defined by dSPACE. For an overview, refer to License-Specific Linger Tim on page 160.				
	Extending the linger time You cannot directly extend the linger time on the dSPACE License Server. However, there is a workaround using CodeMeter WebAdmin. In its advanced mode, you can specify access rules to reserve a license (i.e., to block it) for a longer period without losing the license. For more information, refer to the CodeMeter user documentation				

	installed on your PC at http://localhost:22350/\$help/CmUserHelp/us/index.html? license_access_permissions.htm.
Compatibility with FlexNet technology (earlier Releases)	For floating network licenses, the CodeMeter licensing technology cannot provide downward compatibility with Releases earlier than dSPACE Release 2017-B. If you need to use product versions of dSPACE Releases earlier than dSPACE Release 2017-B, you have to keep your FlexNet License Server running in parallel. Both FlexNet and CodeMeter floating network servers can be hosted on the same PC.
	Note
	The dSPACE EULA does not allow FlexNet and CodeMeter license servers to provide the <i>same floating network license</i> in parallel. If you have any questions or encounter any problems, contact dSPACE Support (www.dspace.com/go/supportreguest).

Basics on Setting Up a License Server and the License Clients

Setting up license server and clients	If you purchased floating network licenses, you have to configure one PC in the network as the dSPACE License Server. The PCs on which you want to run dSPACE software (dSPACE License Clients) need to be connected to the dSPACE License Server via TCP/IP connection. The CodeMeter technology does not need special license server software. Every PC with a CodeMeter Runtime software installation can be configured as a license server. The configuration of a license client to connect to a license server is done by means of a server search list.
	Note You cannot use dSPACE Installation Manager to set up a license server and connect license clients to the server. This can be done only via CodeMeter WebAdmin from Wibu-Systems.
	Single-user licenses that are stored in local CmContainers on the dSPACE License Server do not become floating network licenses when the PC is configured as a license server. The license itself contains an attribute whether it can be used as a single-user or as a floating network license.
Required knowledge	Preparing the dSPACE License Server requires knowledge about the network configuration, e.g., TCP/IP addresses, available TCP/IP ports on the dSPACE License Server, and configuration of firewalls and routers. Therefore, it is

recommended that only experienced network administrators prepare the dSPACE License Server.



license. If they do not concerning the software provide the software pro

dSPACE software products first search for a local CmContainer with the required license. If they do not find a relevant local CmContainer, they search for CmContainers stored on license servers. Any PC in the network can be set up as a license server with a few clicks. Refer to How to Set Up the dSPACE License Server on page 153. The license servers are available via the client's server search list that has to be defined by the user. Refer to the following illustration.



Define the server search list as follows to prevent network broadcasts:

- On the dSPACE license clients, add the license server to the server search list by entering the name or the IP address of the license server.
- If you have more than one license server in the network, move the preferred server to the top of the server search list. dSPACE software searches for CmContainers on the license server in the order listed in the server search list of the clients.
- If dSPACE software products are installed and executed on the dSPACE License Server, leave the list empty. This way installed dSPACE software does not search for license servers in the network.

Note

	If you add the Automatic server search option to the server search list, the dSPACE software on the clients searches for available license server in the connected LAN. The clients send network broadcasts to get access to license servers. To reduce network broadcasts and thus the traffic in your network, always define at least one server in the server search list and do not add Automatic server search to the list. By default, the Automatic server search option is not added to the server search list during software installation. This way installed dSPACE software does not search for license servers in the network.
Activating licenses on a license server	To use license-protected dSPACE software, you have to create a CmContainer on the dSPACE License Server and activate the floating network licenses in it. As an alternative, you can activate floating network licenses in CmDongles. These tasks are done via dSPACE Installation Manager. For more information, refer to License Activation on page 55.
	If you cannot install dSPACE Installation Manager on your license server (for example, because the required operating system does not match), you can activate the floating network licenses via LAN connection from another PC. Thus, dSPACE Installation Manager needs not to be installed on the dSPACE License Server.
Getting required firewall settings on license server	As of CodeMeter 6.90, the required TCP share of port 22350 in the firewall is not added by default during installation. If you want to set up a dSPACE License Server, the following measures are required depending on the software you install:
	 You install dSPACE software (e.g., dSPACE Installation Manager) on the PC which should work as license server: After installation of the dSPACE software, use the Change option in the CodeMeter Runtime setup dialog and activate the Network Server setting. This adds a TCP share of port 22350 in the firewall during the modify process.
	 You only install CodeMeter Runtime software on the PC which should work as licenser server: Activate the Network Server setting in the CodeMeter Runtime setup dialog. This adds a TCP share of port 22350 in the firewall during the installation process.

Installing the floating network server on a VM (virtual machine)

NOTICE

Using the 'Revert to snapshot' feature in the virtual machine causes licenses to become invalid.

If you use the 'Revert to snapshot' feature in a VM, all software-based CmContainers on your host PC (dSPACE Activation Container and/or dSPACE Borrow Container) become invalid and the contained licenses are lost.

- Do not use the 'Revert to snapshot' feature for VMs that contain software-based CmContainers with activated licenses.
- Store the license information on CmDongles. There, the CmContainers do not become invalid after use the 'Revert to snapshot' feature.

NOTICE

Moving the virtual machine to a host PC with a different hardware configuration causes licenses to become invalid.

If you move your virtual machine to a host PC with a different hardware configuration, all software-based CmContainers on your host PC (dSPACE Activation Container and/or dSPACE Borrow Container) become invalid and the contained licenses are lost. This happens, for example, if the CPU type of the physical PC changes.

- Do not move a virtual machine that contains software-based CmContainers with activated licenses to a host PC with a different hardware configuration.
- Store the license information on CmDongles. There, the CmContainers do not become invalid after the virtual machine is moved.
- However, if moving the virtual machine is absolutely necessary, contact dSPACE Support (www.dspace.com/go/supportrequest) beforehand to find solutions that can avoid major downtimes.

Further settings for the
license server and license
clientsYou can use
the license se
other PCs with

- You can use CodeMeter WebAdmin to configure further network options for the license server and its clients, for example, allowing remote access from other PCs with CodeMeter software in a network. For more information, refer to the CodeMeter user documentation.
- On the floating network server, it is recommended to monitor the 'CodeMeter Runtime Server' service automatically, e.g., to restart the service after it has crashed. For example, you can configure this using the Windows Services Manager: Set the recovery actions via the properties of the service according to your requirements.

System requirements for the dSPACE License Server

The following table lists hardware and software requirements:

Subject	Host PC and Network Requirements
Required	 Intel Core 2 Duo processor at 2 GHz or equivalent
hardware	 4 GB RAM main memory (or more)

Subject	Host PC and Network Requirements
Operating system	 Valid for servers without dSPACE software: You can use operating systems from Microsoft Windows on a license server in combination with protected dSPACE software.
	Note
	 If you want to use Ubuntu Linux as operating system for the license server, contact dSPACE Support (www.dspace.com/go/supportrequest). Other operating systems are not tested. You can use them at your own risk. dSPACE does not provide support in this case.
	 Valid for servers with dSPACE Installation Manager: dSPACE Installation Manager supports the same operating systems as the other dSPACE software products. Refer to Operating System (Installing dSPACE Software C).
Required	On dSPACE License Clients:
software	 CodeMeter Runtime Version 8.0 (required for Microsoft Windows and Ubuntu Linux)
	 The required versions are automatically installed with dSPACE software installations. On a dSPACE License Server: CodeMeter Runtime. The version installed on the server must be equal to or higher than the version installed on the dSPACE License Clients. If you want to use a PC as a dSPACE License Server, but do not want to install dSPACE software on it, you can download and install the CodeMeter Runtime software from http://www.dspace.com/go/wibudrv. Here you will always find the latest version that has been tested to be used in combination with dSPACE software. CodeMeter Runtime requires the DigiCert Trusted Root G4 root certificate (https://cacerts.digicert.com/DigiCertTrustedRootG4.crt). If CodeMeter Runtime should be installed on a PC without an Internet connection and the certificate is not already installed on your PC, you have to download and install the required root certificate manually before installing CodeMeter Runtime.
Enabling floating network licenses	All host PCs on which you want to run dSPACE software (<i>license clients</i>) must be able to establish a TCP/IP connection (standard TCP/UDP protocol is required) to the dSPACE License Server. The default port number is 22350 (TCP and UDP), which is an officially registered port number (IANA). If needed, you can specify a different port number.
Accessing CodeMeter WebAdmin	CodeMeter licensing software requires the following open TCP/IP network ports:22352 (TCP and UDP): To access CodeMeter WebAdmin via http.

Subject	Host PC and Network Requirements
	 22353 (TCP and UDP): To access CodeMeter WebAdmin via https.

How to Set Up the dSPACE License Server

Objective	You have to install and configure one of the network PCs as the dSPACE License Server.
Preconditions	The PC used as a dSPACE License Server must meet the system requirements. Refer to Basics on Setting Up a License Server and the License Clients on page 148.
Method	To set up the dSPACE License Server
	1 From Start – CodeMeter, select CodeMeter Control Center.
	CodeMeter Control Center opens.
	CodeMeter Control Center

License Events

 Status:
 Status:

 Status:
 Status:

 CodeHeter is started.
 WebAdmin

2 Click WebAdmin.

CodeMeter WebAdmin opens in a new page in the Web browser.

	ashboard	Container ~	License	Monitoring ~	Diagnosis	 Configurati 	ion ~ In	ifo	
SYSTEMS	- All Contain	ier dspace act	ivation Co	ntainer (130-17	31677770)			0 =	English (US
C	dSPACE #	Activation Cont	tainer	130-17316	577770		CmA	ctLicense	3.00
	▲ Licenses	s 🗸 CmContai	ner Info	V User Data					
+ 6000	ator der								•
▲ 0000	107 05P	ACE							
Readuct Logo	Name				Unit Counter	Valid Until	Licen	se Quantity	Feature Map
Produce code									
3	ID_dSPACE				n/a	n/a		1 (local)	0x0

- **3** From the CodeMeter WebAdmin menu, select Configuration Server Server Access.
- 4 Select Enable in the Network Server group.

		Density in the Dense			
Server Access	LICENSE ACCESS	Permissions Prepa	red License Borrov	wing	
-Network Server-					
Network Port *:	22	2350			
-CmWAN Server-					
 Disable 					
O Enable					
		Apply R	estore Defaults		
		(Appr)			
*) Changes only take effe	ct after restartin	g CodeMeter			

By default, the network port 22350 is set as the CodeMeter communication port. The port number is registered at Internet Assigned Numbers Authority (IANA) and uniquely assigned to CodeMeter communication.

Note

You can change the default port setting. In this case, make sure that all dSPACE License Servers and license clients in your network use the same port settings. If they do not, you cannot use CodeMeter software in a network without restrictions. For instructions on changing the port setting, refer to the CodeMeter user documentation.

- 5 Click Apply.
- **6** From the CodeMeter WebAdmin menu, select Configuration Advanced Extra.

7 In the License Transfer Configuration group, set the Storage of additional License Transfer information property to 180 days.

Dashboard Container × License Monitoring × Diagnosis × Configuration × Info Advanced Configuration Extra CodeMeter Time Server Trusted WebSocket Origins Extra API-Communication-Mode IPv4 IPv6 Shared Memory Ichanges require restart of the CodeMeter service Network Advanced Network Advanced
Advanced Configuration Extra CodeMeter Time Server Trusted WebSocket Origins Extra API-Communication-Mode IPv4 IPv6 Shared Memory Edit Changes require restart of the CodeMeter service Network Advanced Network Port:
CodeMeter Time Server Trusted WebSocket Origins Extra API-Communication-Mode IPv4 IPv6 Shared Memory Edit Changes require restart of the CodeMeter service Network Advanced Network Port:
API-Communication-Mode
 ☑ IPv4 ☑ IPv6 ☑ Shared Memory ☑ Changes require restart of the CodeMeter service
Prof Shared Memory Changes require restart of the CodeMeter service Network Advanced Network Port: 2250
Shared Memory Changes require restart of the CodeMeter service Network Advanced Network Port: 2250
Edit Changes require restart of the CodeMeter service Network Advanced Network Port: 2250
Changes require restart of the CodeMeter service Network Advanced Network Port: 22350
Network Advanced
Network Port: 22350
Network Timeout: 100 Seconds
UDP Waiting Time: 1000 Milliseconds
Edit
Changes require restart of the CodeMeter service
License Transfer Configuration
Storage of additional License Transfer information: 180 Days
Apply Restore Defaults Cancel
Changes require restart of the CodeMeter service

Background: The maximum borrow period for dSPACE licenses delivered or updated as of 03/09/22 has been extended to 180 days. However, to be able to use this maximum period without restrictions, you must also extend the borrow history on the dSPACE License Server via CodeMeter WebAdmin to 200 days.

Тір

You can explicitly limit the maximum borrow period for all dSPACE licenses hosted on the dSPACE License Server via CodeMeter WebAdmin. To do this, select Configuration – Server – License Transfer Configuration. For details, refer to the corresponding documentation from Wibu-Systems.

- 8 Click Apply.
- 9 Change to CodeMeter Control Center.

 rocess	<u>V</u> iew <u>H</u> elp	
Def	ragment License Memo	ries
Upo Rep Star Sto Res	late Time Certificates air Hardware Configura t CodeMeter Service o CodeMeter Service tart CodeMeter Service	tion Name: dSPACE Activation Container Serial: 130-1731677770 Version: CmActLicense 3.00
		Status: 🞯 License activated

10 From the Process menu, select Restart CodeMeter Service.

The changes take effect after CodeMeter Service restarted.

Result	You configured a PC as a dSPACE License Server.		
Next steps	 Set up a connection between dSPACE License Client and dSPACE License Server. Refer to How to Set up a Connection Between Client and Server on page 156. Create a CmContainer on the dSPACE License Server and activate the floating network licenses on it. You also can activate floating network licenses in CmDongles. Refer to License Activation on page 55. 		

How to Set up a Connection Between Client and Server

Objective	To set up a connection between client and server, you have to adjust the settings of your dSPACE License Client to the address of the dSPACE License Server to instruct the client to use the server.
Basics	To configure dSPACE License Clients, you have to use CodeMeter WebAdmin. You can set up a connection to as many servers as you need.
	You can access CodeMeter WebAdmin via the CodeMeter Control Center or via the dSPACE Installation Manager. In the dSPACE Installation Manager, click the Show Server Search List button on the License Overview page as shown in the following illustration:

	-	0					
		iii ii					
allations MATLAB Extensions D	iagnostics	Licensing					
anna Quantieur CmContainer License Admi	nistration						
is page displays the available dSPACE licenses. It d	isplays local licer	ises and ca	n also display licenses (on	ly FNL) that are le	ocated on license se	rvers in your local (area network. It
pends on the configuration of the Code Meter runt	ime which remot	e licenses a	re available to you.				
rense Name	License Type	Location	Borrow Expiration Date	Borrow Source	License Quantity	CmContainer	Expiration Date
-3582494							
nstallation Manager - Extended Admin	Standard	Local	n/a	n/a	1	3-3582494	n/a
ontrolDesk - Operator Version	Standard	Local	n/a	n/a	1	3-3582494	n/a
ontrolDesk	Standard	Local	n/a	n/a	1	3-3582494	n/a
ontrolDesk Bus Navigator Module	Standard	Local	n/a	n/a	1	3-3582494	n/a
30-181405216					-		
ontrolDesk Bus Navigator Module	Standard	Local	n/a	n/a	5	130-181405216	31.12.2021
ontrolDesk ECU Diagnostics Module	Standard	Local	n/a	n/a	5	130-181405216	31.12.2021
ontrolDesk ECU Interface Module	Standard	Local	n/a	n/a	5	130-181405216	31.12.2021
ontrolDesk	Standard	Local	n/a	n/a	5	130-181405216	31.12.2021
onfigurationDesk - Implementation Vers. MultiCo	re Standard	Local	n/a	n/a	10	130-181405216	31.12.2021
onfigurationDesk - Implementation Version (300)	Standard	Local	n/a	n/a	10	130-181405216	31.12.2021
onfigurationDesk - Implementation Version (200)	Standard	Local	n/a	n/a	10	130-181405216	31.12.2021
onfigurationDesk - Implementation Version (1000) Standard	Local	n/a	n/a	10	130-181405216	31.12.2021
ontrolDesk - Operator Version	Standard	Local	n/a	n/a	5	130-181405216	31.12.2021
onfigurationDesk - Implementation Version (100)	Standard	Local	n/a	n/a	10	130-181405216	31.12.2021
30-1035942853							
EOS - Base	Standard	Local	n/a	n/a	20	130-1035942853	31.12.2021
EOS - Virtual CAN	Standard	Local	n/a	n/a	20	130-1035942853	31.12.2021

Method

To set up a connection between client and server

- **1** Establish a TCP/IP connection to the dSPACE License Server.
- 2 If necessary, configure firewall and/or other network components, such as routers and switches, to open the specified TCP/IP port to allow network communication between the client and server.

The default network port that is specified on the dSPACE License Server is 22350.

Note

If you specified a different network port on the license server than the default network port (22350), you have to change it on the license clients as well. To change the communication port, use CodeMeter WebAdmin. For more information, refer to the CodeMeter user documentation.

3 From Start – CodeMeter, select CodeMeter Control Center. CodeMeter Control Center opens.



4 Click WebAdmin.

CodeMeter WebAdmin opens a new page in the default Web browser.

	U MS	CodeMeter WebAdmin				C₁
Dashboard	Container ~	License Monitoring ~	Diagnosis ~	Configuration \sim	Info	
All Contain	er		,	W	0	💻 English (US) 🗵
Current Serv	ver: localhost ((127.0.0.1) 🚱 🕕		WebAdmin Version	n: 6.7)

5 From the CodeMeter WebAdmin menu, select Configuration – Basic – Server Search List.

The server search list opens.

6 Click add new Server.

	CodeMeter WebAdmin	⊳ C ^
Dashboard Container - License Monitoring	 ✓ Diagnosis ✓ Configuration ✓ Info W 	🖈
Server Search List	min Backup	
1. 192.254.1.1	<u> </u>	
add automatic server search		
	Apply Restore Defaults	
Current Server: localhost (127.0.0.1) 🤣 🛛 🤇	WebAdmin Version: 6.70	

Tip

To display available license servers, click Current Server: <servername (IP-address)> at the bottom left in the CodeMeter WebAdmin window.

	CodeMete	r WebA	dmin	C⊶	
Dashboard Container	 License Monitoring ~ 	Diagnosis ~	Configuration ~	Info 🔺	
Dashboard			🕜 📟 Eng	glish (US) 👻	
Server found:					
localhost (127.0.0.1)			Service Pack 1, 64-Bit		
Licensers propries de 1997,	169 % MAI				
all and the summer of the bold is to		uild 2631	uild 2631)		
Use IP-Address	Apply Cano	iel			
Current Server: localhost (12	7.0.0.1) 🚱 🕚	We	bAdmin Version: 6.50		

7 Enter the server's name or IP address in the edit field and click Add.

Tip

The license server connects to the first found Ethernet adapter by default. If your dSPACE License Server is located in another subnet, enter the server's IP address instead of its host name. This prevents problems with UDP broadcasts.

		CodeM	eter WebAdmir	ı	C⁴
Dashboard Container	 License Monitoring Server Search List 	Diagnosis ~	Configuration ~ Info	0	🖈 🗎 English (US) 🗡
Server Search List Server Search 1. 192.254.1.1 Inter the Server's n JESPACE-FNL 1 add automa	Proxy WebAdmin List time or IP-Address: tic server search	Add Cand	e Restore Defaults		
Current Server: localhe	ost (127.0.0.1) 📀 🛛 🕕		WebAdmin Ve	ersion: 6.70	

You can add as many servers as needed.

Note

If you add the Automatic server search option to the server search list, the dSPACE software on the clients searches for available license server in the connected LAN. The clients send network broadcasts to get access to license servers. To reduce network broadcasts and thus the traffic in your network, do not add Automatic server search to the list.

8 Click Apply to confirm your changes.

Result

You set up a connection between the client and the server.

License-Specific Linger Times

Motivation	For all products the linger time is defined by dSPACE as shown below. After
	a license is released by the software product, it remains reserved for the same
	license client PC for the duration of the linger time. After the linger time has
	elapsed, the license can be used by other license clients.

Overview table

License	Order Number	Linger Time (Minutes)
ASM Battery Library	ASM_L_BAT	30
ASM Battery Library (run-time version)	ASM_L_BAT_RTV	30
ASM Brake Hydraulics Library	ASM_L_BH	30
ASM Brake Hydraulics Library (run-time version)	ASM_L_BH_RTV	30
ASM Diesel Exhaust Library	ASM_L_DEXH	30
ASM Diesel Exhaust Library (run-time version)	ASM_L_DEXH_RTV	30

License	Order Number	Linger Time (Minutes)
ASM Drivetrain Basic Library	ASM_L_DTB	30
ASM Drivetrain Basic Library (run-time version)	ASM_L_DTB_RTV	30
ASM Electric Components Library	ASM_L_EC	30
ASM Electric Components Library (run-time version)	ASM_L_EC_RTV	30
ASM Engine Diesel Library	ASM_L_ED	30
ASM Engine Diesel Library (run-time version)	ASM_L_ED_RTV	30
ASM Engine Diesel InCylinder Library	ASM_L_EDIC	30
ASM Engine Diesel InCylinder Library (run-time version)	ASM_L_EDIC_RTV	30
ASM Engine Gasoline Library	ASM_L_EG	30
ASM Engine Gasoline Library (run-time version)	ASM_L_EG_RTV	30
ASM Engine Gasoline InCylinder Library	ASM_L_EGIC	30
ASM Engine Gasoline InCylinder Library (run-time version)	ASM_L_EGIC_RTV	30
ASM Environment Library	ASM_L_ENV	30
ASM Environment Library (run-time version)	ASM_L_ENV_RTV	30
ASM Fuel Cell Library	ASM_L_FC	30
ASM Fuel Cell Library (run-time version)	ASM_L_FC_RTV	30
ASM InCylinder Base Library	ASM_L_ICB	30
ASM InCylinder Base Library (run-time version)	ASM_L_ICB_RTV	30
ASM Kinematics and Compliance Testbench	ASM_L_KNC	30
ASM Pneumatics Library	ASM_L_PNM	30
ASM Pneumatics Library (run-time version)	ASM_L_PNM_RTV	30
ASM Turbocharger Library	ASM_L_TC	30
ASM Turbocharger Library (run-time version)	ASM_L_TC_RTV	30
ASM Trailer Library	ASM_L_TRA	30
ASM Trailer Library (run-time version)	ASM_L_TRA_RTC	30
ASM Traffic Library	ASM_L_TRF	30
ASM Traffic Library (run-time version)	ASM_L_TRF_RTV	30
ASM Truck Library	ASM_L_TRU	30
ASM Truck Library (run-time version)	ASM_L_TRU_RTV	30
ASM Vehicle Dynamics Library	ASM_L_VD	30
ASM Vehicle Dynamics Library (run-time version)	ASM_L_VD_RTV	30
AURELION Camera	AURELION_CAMERA	0
AURELION Lidar	AURELION_LIDAR	0
AURELION Platform	AURELION_PLATFORM	0
AURELION Radar	AURELION_RADAR	0
AutomationDesk Basic	AUD_BASIC	0
AutomationDesk Server Basic	AUS_BASIC	0
Bus Manager	BUS_MANAGER	30
Calibration API Package	CALIBRATION_API	30
Communication Matrix Manager	COM_MATRIX_MANAGER	0
ConfigurationDesk for RapidPro	CFD_C	0

License	Order Number	Linger Time (Minutes)
ConfigurationDesk for 100 Functions	CFD_I_100	0
ConfigurationDesk for 200 Functions	CFD_I_200	0
ConfigurationDesk for 300 Functions	CFD_I_300	0
ConfigurationDesk for 1000 Functions	CFD_I_1000	0
ConfigurationDesk for unlimited Functions	CFD_I_UNLTD	0
ConfigurationDesk CAN Module	CFD_I_CAN	0
ConfigurationDesk Ethernet Module	CFD_I_ETH	0
ConfigurationDesk XCP Module	CFD_I_XCP	0
ConfigurationDesk LIN Module	CFD_I_LIN	0
ConfigurationDesk MultiCore	CFD_I_MC	0
ConfigurationDesk MultiProcessor	CFD_I_MP	0
ControlDesk	CONTROLDESK	0
ControlDesk Bus Navigator Module	CONTROLDESK_BNV	0
ControlDesk ECU Diagnostics Module	CONTROLDESK_DIAG	0
ControlDesk ECU Interface Module	CONTROLDESK_ECU	0
ControlDesk - Operator Version	 CONTROLDESK_OPERATOR (old) ¹⁾ CONTROLDESK_OPER (new) 	0
ControlDesk Signal Editor Module	CONTROLDESK_SE	0
Data Dictionary Manager	DSDD_Manager	30
dSPACE AUTOSAR Compare	DARC	0
ECU Flash Programming Tool	DSPACE_ECU_FLASH	0
ECU Interface Base Package	EIF_BASE	30
ECU Interface Binary Code Management for ARM	EIF_BCM_ARM	30
ECU Interface Binary Code Management for MPC5XXX	EIF_BCM_MPC5XXX	30
ECU Interface Binary Code Management for TriCore	EIF_BCM_TRICORE	30
ECU Interface Binary Code Management for V850X	EIF_BCM_V850X	30
ECU Interface On-Target module for ARM	EIF_OT_ARM	30
ECU Interface On-Target module for MPC5XXX	EIF_OT_MPC5XXX	30
ECU Interface On-Target module for TriCore	EIF_OT_TRICORE	30
ECU Interface On-Target module for V850X	EIF_OT_V850X	30
Ethernet Configuration Package	ETHERNET_BUS	30
Failure Simulation Package	FAILURE_SIM	30
FlexRay Configuration Package	FLEXRAY_BUS	30
HighTec C Compiler for Freescale MPC5xxx	HIGHTECC_MPC5XXX	30
HighTec C Compiler for Infineon TriCore	HIGHTECC_TRICORE	30
HighTec C Compiler for Renesas V850/RH850	HIGHTECC_V850X	30
MicroLabBox GNU Compiler	MLBX_COMP	0
Microtec C PowerPC Cross Compiler	ССРРРС	30
Model Compare	MOC	30
ModelDesk	MODELDESK	0
Platform API Package	PLATFORM_API	30

License	Order Number	Linger Time (Minutes)
Real-Time Interface	RTI	30
RTI E-Motor Control Blockset	RTI_EMC_BS	30
RTI Ethernet I/O Package	RTI_ETHERNET_IO	30
Real-Time Interface MultiProcessor	RTI_MP	30
Real-Time Interface RapidPro Blockset	RTI_RP_BS	30
Real-Time Interface Watchdog Blockset	RTI_WATCHDOG_BS	30
RTI CAN Blockset	RTICAN_BS	30
RTI CAN MultiMessage Blockset	RTICANMM_BS	30
RTI LIN MultiMessage Blockset	RTILINMM_BS	
FPGA Programming Blockset for Vitis TM Model	FPGA_Blockset_1	30
FPGA Programming Blockset for HDL [™] Coder	FPGA_Blockset_2	30
FPGA Programming Blockset Handcode Framework	FPGA_HANDCODE	30
Real-Time Testing	RTT	30
Real-Time Testing Observer Library	RTT_OBSERVER_LIB	30
SystemDesk V-ECU Generation Module	SYD_GEN	0
SystemDesk Modeling Module	SYD_MOD	0
SYNECT Module - Base	 SYNECT_BASE (old) ¹⁾ SYN_BASE (new) 	_2)
SYNECT Module - Base Local	 SYNECT_BASE_LOCAL (old) ¹⁾ SYN_BASE_LOCAL (new) 	_2)
SYNECT Module - Model Management	 SYNECT_MODEL_MGMT (old) ¹⁾ SYN_MODEL_MGMT (new) 	_2)
SYNECT Test Management - Test Development	 SYNECT_TM_DEV (old) ¹⁾ SYN_TM_DEV (new) 	_2)
SYNECT Test Management - Planning & Execution	 SYNECT_TM_PLAN_EXEC (old) ¹⁾ SYN_TM_PLAN_EXEC (new) 	_2)
SYNECT Module - Variant Management	 SYNECT_VARIANT_MGMT (old) ¹⁾ SYN_VARIANT_MGMT (new) 	_2)
SYNECT Module - Workflow Management	 SYNECT_WORKFLOW_MGMT (old) ¹⁾ SYN_WORKFLOW_MGMT (new) 	_2)
TargetLink Adaptive AUTOSAR Module	TAAS	30
TargetLink AUTOSAR Module	TAS	30
TargetLink Base Suite	TBS	30
TargetLink Module for MATLAB Code	TMMLC	30
TargetLink Module for Operating Systems - OSEK	TMOS_OSEK	30
Target Optimization Module/C16x	TOM_C16X_TASKING	30
Target Optimization Module/SH2	TOM_SH2_SHC	30
Target Optimization Module/TriCore	 TOM_TRICORE_TASKING (old) ¹⁾ TOM_TRIC_TASK (new) 	30
TargetLink Simulation Module	TSM	30
TargetLink Automation Package	TL_AUTO	0
VEOS - Base	VEOS_BASE	0
VEOS - Virtual CAN	VEOS_CAN	0

License	Order Number	Linger Time (Minutes)
VEOS - Virtual ECU	VEOS_ECU	0
VEOS - Virtual Automotive Ethernet	VEOS_ETH	0
VEOS - Virtual LIN	VEOS_LIN	0
XCP Host Blockset	XCP_HOST_BS	30

¹⁾ Due to technical changes in the dSPACE order management, this order number has to be changed. This will not happen for customers of all countries at the same time. Therefore, both the old and the new order numbers will apply for this transition period.

²⁾ The linger time depends on the used license and SYNECT server service. You can view specific linger times on the License Overview page of the SYNECT Server Administrator. Refer to Basics on License Protection (The SYNECT Server Guide ⁽¹⁾).

Manual License Confirmation

Motivation	In certain cases, you might have to perform license confirmation manually. This particularly applies if dSPACE Installation Manager has file-based access to the CmContainer. However, in most cases, dSPACE Installation Manager performs the license confirmation automatically.				
Where to go from here	Information in this section				
	Use Scenario and Workflows for License Confirmation	. 165			
	How to Confirm the License Status Manually (Local Access to CmContainer)	. 169			
	How to Confirm the License Status Manually (LAN Access to CmContainer)	. 171			
	How to Confirm the License Status Manually (dSPACE Hardware Access to CmContainer)	. 173			
	How to Confirm the License Status Manually (File-Based Access to CmContainer)	. 176			

Use Scenario and Workflows for License Confirmation

Purpose

To confirm the license status, you transfer a fingerprint of the CmContainer to dSPACE License Central after you activated, updated, or deactivated the licenses. This is the last step in the related process.



The workflow differs depending on how dSPACE Installation Manager can access the CmContainer.







For instructions, refer to How to Confirm the License Status Manually (LAN Access to CmContainer) on page 171.



For instructions, refer to How to Confirm the License Status Manually (File-Based Access to CmContainer) on page 176.

How to Confirm the License Status Manually (Local Access to CmContainer)

Objective	To confirm an activation, update or deactivation process manually on a CmContainer that is accessible on your PC.					
Preconditions	 An Internet connection for accessing dSPACE License Central exists. An activation, update or deactivation process is not yet confirmed to dSPACE License Central. 					
Method	To confirm the license status manually (local access to CmContainer)					
	 If you want to confirm the license status on a CmDongle, connect the CmDongle to your PC. 					
	2 From Start – dSPACE Installation Manager, select dSPACE Installation Manager.					
	dSPACE Installation Manager opens.					
	3 Click the Licensing – License Administration tab.					
	4 Select Show all use cases on the left of the page.					
	We We We were the sectivation Iscreen beschvation Borrow licenes Borrow licenes<					
	Back Next Cancel					

5 Select Manual License Confirmation and click Next.

6 Select Local access.

dSPACE Installation Manager displays all CmContainers that it can access locally on your PC.

	dSPAC	E Installation Manager								- • •
	Help									
Ļ	installat	ions MATLAB Extensio	ns Diagnostics	Licensing						
	License	e Overview CmContainer Lic	ense Administration							
	Select U	Jse Case:								
	\bigcirc	License Activation		Sel	ect CmCo	ontainer for Lie	cense	Confir	mation	
		License Update	Select access to Select the local CmCr	ontainer for which you want to	Local access	LAN access onfirmation.	۲	dSPACE har	dware	File-based acces
		License Deactivation	Send Confirmation	Name	Serial Number	CmContainer Type	Location	Server Address	Server Name	Firmware Update
		erense bedentonom	0	dSPACE Activation Container	130-1731677770	dSPACE Activation Container	Local	10.1.102.233	localhost	not required
	\bigcirc	Borrow Licenses	0	dSPACE Activation Container	130-1883348359	dSPACE Activation Container	Local	10.1.102.233	localhost	not required
	-			dSPACE Activation Container	130-2409234908	dSPACE Activation Container	Local	10.1.102.233	localhost	not required
	\odot	Return Borrowed Licenses		dSPACE Activation Container	130-4102795474	dSPACE Activation Container	Local	10.1.102.233	localhost	not required
	\bigcirc	Renew Borrowed Licenses								
	\bigcirc	Show Ticket Information								
	٢	Manual License Confirmation								
	\bigcirc	Manual RAU File Request								
	\bigcirc	Manual CmContainer Creation								
			Make Dongle LEDs	Flash						
			4							3
	🗹 Sho	ow all use cases		Back		Finish			Cance	đ
Re	ady									

- **7** Select the CmDongle or CmActLicense container on which you want to confirm the license status.
- 8 Click Finish.

A confirmation prompt is displayed.



9 Click Yes to start the confirmation process.

dSPACE Installation Manager automatically performs the data exchange with dSPACE License Central and displays the result as follows:

💰 dSPACE Installation Manager				
Help				
Installations MATLAB Extension	ons Diagnostics Licensing			
License Overview CmContainer Lic	cense Administration			
License Activation	Licen	se Confirmation Fi	nished Succe	ssfully
License Update	Corresponding to the dSPACE License Central the 'Unconfirmed' Confirmation State normally mean Center'. After having imported this file you shoul	e following Tickets are currently related to ns that there is a WibuCmRaU file which y Id again perform a license confirmation bi	o the processed CmContaine ou have not yet imported wi ased on the new state of you	r '130-4102795474'. Note: An ith the Wibu tool 'CodeMeter Control ır CmContainer.
License Deactivation	Lizense Neme	Ticket IDs used with the '130-410	2795474' CmContainer.	Telest
Borrow Licenses	ControlDesk ECU Diagnostics Module	Activated Confirmed	13D-4102795474	DSP96-5C61C-8EEC5-44DEB-3A895
Return Borrowed Licenses Renew Borrowed Licenses				
Show Ticket Information				
Manual License Confirmation				
Manual RAU File Request				Save to File
Manual CmContainer Creation	Back	Close		Cancel
Show all use cases	1			
Ready				

10 Click Close.

Result

You made the completion of an activation, update or deactivation process is known to dSPACE License Central.

How to Confirm the License Status Manually (LAN Access to CmContainer)

Objective	To confirm an activation, update or deactivation process manually on a CmContainer that is accessible from your PC via LAN.
Preconditions	 The PC with access to the CmContainer is configured as a dSPACE License Server. Refer to How to Set Up the dSPACE License Server on page 153. The PC on which dSPACE Installation Manager is installed to confirm the license status is able to establish a TCP/IP connection to the dSPACE License Server. Refer to How to Set up a Connection Between Client and Server on page 156. An Internet connection for accessing dSPACE License Central exists. An activation, update or deactivation process is not yet confirmed to dSPACE License Central.
Method	To confirm the license status manually (LAN access to CmContainer)
	1 If you want to confirm the license status on a CmDongle, connect the CmDongle to the PC configured as the dSPACE License Server.

2 From Start – dSPACE Installation Manager, select dSPACE Installation Manager.

dSPACE Installation Manager opens.

- **3** Click the Licensing License Administration tab.
- 4 Select Show all use cases on the left of the page.

🗑 dSPACE Installation Manager				- 🗆 X
Help				
Installations MATLAB	Diagnostics			
Intallians MATL& Exercitors License Overview CmContainer License License Activation Uicense Activation Uicense Activation Uicense Deactivation Borrow Licenses Renew Borrowe Licenses R	Administration Administration License confirmation is requi- - dSPACE installator - dSPACE installator	Manual Liccer is the last step to finish license active dony in the following cases: .Manager can access the PC with the ation, update, or deactivation, dSPAC ity was completed. 	Ites Confirmation tion, license update, or license dea CmContainer only via the file-base E Installation Manager does not pr age for each of these scenarios and a missing license confirmation. A mended to perform a license con SPACE Indraws 2005	ctivation. Manual license d method. operly inform dSPACE License on the Show Ticket missing license confirmation firmation in this cas.
				Verify Internet Connection
Show all use cases	Back		Next	Cancel

- 5 Select Manual License Confirmation and click Next.
- 6 Select LAN access.

dSPACE Installation Manager displays all CmContainers that it can access via LAN.

dSPACE Installation Manager Halo								
Installations MATLAB Extension	s Diagnostics Lice	insing						
License Overview CmContainer Licen	nse Administration							
Select Use Case:		C al		ntainas fas li		Confin		
License Activation		361	ectenice	intallier for Li	ense	Comm	nation	
C License Update	Select access to the Select the CmContainer for	• CmContainer:	Local access rm a license confirm	ation.	<u>ہ</u>	dSPACE ha	rdware	File-based acces
License Deactivation	Send Confirmation	Name	Serial Number	CmContainer Type	Location	Server Address	Server Name	
Borrow Licenses	⊖ dSP/	ACE Activation Container	130-4102795474	dSPACE Activation Container	LAN	192.168.253.1	dSPACE-FNL	
Return Borrowed Licenses								
Renew Borrowed Licenses								
Show Ticket Information								
Manual License Confirmation								
Manual RAU File Request								
Manual CmContainer Creation								
	Make Dongle LEDs Flash							
								5
Show all use cases	Bac	k		Finish			Cance	el
Ready								

7 Select the CmDongle or CmActLicense container on which you want to confirm the license status.

8 Click Finish.

A confirmation prompt is displayed.



9 Click Yes to start the license confirmation.

dSPACE Installation Manager automatically performs the data exchange with dSPACE License Central and displays the result as follows:

dSPACE Installation Manager Help						-
Installations MATLAB	ns Diagnostics Licensing					
License Overview CmContainer Lice	ense Administration					
Select Use Case:			5476 - 547 - 5 47	14/48/5 (S)	(10) 14 2	
License Activation	Licen	se Confirr	nation Fin	ished Succe	ssfully	
License Update	Corresponding to the dSPACE License Central th 'Unconfirmed' Confirmation State normally mea Center'. After having imported this file you shou	e following Tickets an ns that there is a Wibu Id again perform a lice	e currently related to t CmRaU file which you ense confirmation base	he processed CmContaine I have not yet imported wi ad on the new state of you	r '130-1731677770'. Note: An th the Wibu tool 'CodeMeter Contro ir CmContainer.	1
License Deactivation	Linear News	Ticket IDs use	d with the '130-17316	77770' CmContainer.	Tabat	
Borrow Licenses	ControlDesk ECU Diagnostics Module	Activated	Confirmed	130-1731677770	DSP96-5C61C-8FEC5-44DFB-3A89	95
Return Borrowed Licenses	Controlbest eCo interface wouldie	Activated	continued	150-1751077710	D3P23-32276-14431-46808-4002	
Renew Borrowed Licenses						
Show Ticket Information						
Manual License Confirmation						
Manual RAU File Request						Save to File
Manual CmContainer Creation						
	Back		Close		Cancel	
Show all use cases						
ady						

10 Click Close.

Result

You made the completion of an activation, update or deactivation process known to dSPACE License Central.

How to Confirm the License Status Manually (dSPACE Hardware Access to CmContainer)

Objective	To confirm an activation or update process manually on a CmContainer that is located on a dSPACE hardware system that can be accessed by dSPACE Installation Manager via LAN.				
Preconditions	 An Internet connection for accessing dSPACE License Central exists. An activation or update process is not yet confirmed to dSPACE License Central. The dSPACE hardware system (MicroLabBox II or SCALEXIO) is accessible directly from your PC via LAN. 				

 The URL or IP address of the hardware system is known by dSPACE Installation Manager and is therefore displayed in the Configure dSPACE Hardware System URLs dialog. This dialog is accessible via the dSPACE Hardware button.

Method

To confirm the license status manually (dSPACE hardware access to CmContainer)

1 From Start – dSPACE Installation Manager, select dSPACE Installation Manager.

dSPACE Installation Manager opens.

- 2 Click the Licensing License Administration tab.
- **3** Select Show all use cases on the left of the page.

SPACE Installation Manager	- 🗆 X
Help	
Installations MATLAB Extensions	Diagnostics Licensing
License Overview CmContainer License	: Administration
Select Use Case: License Activation	Manual License Confirmation
License Update License Deactivation Borrow Licenses	License confirmation is the last step to finish license activation, license update, or license deactivation. Manual license confirmation is required only in the following cases: - dSPACE Installation Manager can access the PC with the CmContainer only via the file-based method, - During license activation, update, or deactivation, dSPACE Installation Manager does not properly inform dSPACE License Central that the activity was completed.
Return Borrowed Licenses Renew Borrowed Licenses	Note: You see the Confirmation State on the last wizard page for each of these scenarios and on the Show Ticket Information page as well. The Unconfirmed value indicates a missing license confirmation. A missing license confirmation has no impact on the licence test. Neverthemes, it is recommended to perform a license confirmation in this case.
Show Textel Information Manual License Confirmation Manual License Confirmation Manual KNW THE Request Manual CmContainer Creation	Data settange UNE construction Data settange UNE construction Data settange UNE construction Data settange UNE construction UNE co
R Show all use cases	Back Next Cancel
Ready	

- 4 Select Manual License Confirmation and click Next.
- 5 Select dSPACE hardware.

dSPACE Installation Manager displays all dSPACE Hardware Containers that are located on connected hardware and that can be accessed directly from your PC via LAN.

SPACE Installation Manager DWI		- 0 ×
Help		
Installations MATLAB Extens	Res Diagnostics Diagnostics	
License Overview CmContainer L	License Administration	
Select Use Case:		
License Activation	Select CmContainer for License Confirmation	
O License Update	Select access to the CmContainer: O Local access O LAN access Select the CmContainer on a dSPACE hardware system for which you want to perform a license confirmation.	File-based access
License Deactivation	Send Confirmation Name Serial Number CmContainer Type Location Host Firmware Update dSPACE Hardware Container dSPACE Hardware MicroLabBox II (http://100000000000000000000000000000000000	
Borrow Licenses		
Return Borrowed Licenses		
Renew Borrowed Licenses		
O Show Ticket Information		
Manual License Confirmation	on	
O Manual RAU File Request		
O Manual CmContainer Creation		
	Make Dongle LEDs Rash dSPACE Hardware	
	10	
Show all use cases	Back Finish Cancel	
Rearly		

- **6** Select the dSPACE Hardware Container on which you want to confirm the license status.
- 7 Click Finish.

A confirmation prompt is displayed.



8 Click Yes to start the confirmation process.

dSPACE Installation Manager automatically performs the data exchange with dSPACE License Central and displays the result as follows:

👩 dSPACE Installation Manager 📧				- 🗆 ×
Help				
Installations MATLAB Extension	ns Diagnostics			
License Overview CmContainer Lice	nse Administration			
Select Use Case:	License	Confirmation Finish	ed Successfu	ally
O License Update	Corresponding to the dSPACE License Central the foll 'Unconfirmed' Confirmation State normally means the Center'. After having imported this file you should ag	owing Tickets are currently related to the pro at there is a WibuCmRaU file which you have a ain perform a license confirmation based on t	cessed CmContainer '130- not yet imported with the ! he new state of your CmCi	4102795474'. Note: An Wibu tool 'CodeMeter Control ontainer.
License Deactivation	Linner Mana	Ticket IDs used with the '130-4102795474'	CmContainer.	Tislat
Borrow Licenses	MicroLabBox II Advanced Feature Package License	Activated Confirmed	130-4102795474	DSPCA-64E75-F9CB7-4CE8A-4B5
Return Borrowed Licenses				
Renew Borrowed Licenses				
Show Ticket Information				
Manual License Confirmation				
O Manual RAU File Request				
O Manual CmContainer Creation				Save to File
Show all use cases	Back	Close		Cancel
Ready				

9 Click Close.

Result

You made the completion of an activation or update process is known to dSPACE License Central.

How to Confirm the License Status Manually (File-Based Access to CmContainer)

Objective	 To confirm an activation, update or deactivation process manually on a CmContainer that is accessible from the host PC only via manual file transfer. An Internet connection for accessing dSPACE License Central exists. An RAC file (*.WibuCmRaC) that was created after updating the CmContainer with an RAU file (*.WibuCmRaU) exists and is available on the PC with dSPACE Installation Manager. Refer to How to Update a CmContainer with an RAU File on page 138. 		
Preconditions			
Method	<text><list-item><list-item><list-item></list-item></list-item></list-item></text>		
	Back Next Cancel		

4 Select Manual License Confirmation and click Next.

5 Select File-based access and enter the path of the RAC file (*.WibuCmRaC).

🥑 dSPACE Installation Manager
Help
Installations MATLAB Extensions Diagnetics
License Overview CmContainer License Administration
Select Use Case:
License Activation Select CmContainer for License Confirmation
License Update Select access to the CmContainer: Local access LAN access dSPACE hardware File-based access Select a WBuCmRaC Rie for the CmContainer for which to request license confirmation. You can create WBuCmRaC Ries with the WBu-systems to a
Ucense Deactivation Context file: CildSPACEL30-1731677770 WibuCmRaC
Borrow Likenses
Return Borrowed Licenses
Renew Borrowed Licenses
Show Ticket Information
Manual License Confirmation
Manual RAU File Request
Manual CmContainer Creation
Male: Dongle LEDs Rach
Back Finish Cancel
Ready

6 Click Finish.

A confirmation prompt is displayed.

🕐 Do yo	u really want to pe	rform license co	onfirmation?
	ſ	Yes	No

7 Click Yes to start the confirmation process.

dSPACE Installation Manager automatically performs the data exchange with dSPACE License Central and displays the result as follows:

dSPACE Installation Manager				
Help				
Installations MATLAB Extension	ns Diagnostics			
License Overview CmContainer Lice	ense Administration			
Select Use Case:				
License Activation	Licen	nse Confirmation Fin	ished Succe	ssfully
C License Update	Corresponding to the dSPACE License Central the 'Unconfirmed' Confirmation State normally mea Center'. After having imported this file you shou	he following Tickets are currently related to t ans that there is a WibuCmRaU file which you uld again perform a license confirmation base	he processed CmContaine I have not yet imported wi ed on the new state of you	er '130-1731677770'. Note: An ith the Wibu tool 'CodeMeter Control ur CmContainer.
License Deactivation		Ticket IDs used with the '130-17316	77770' CmContainer.	
Borrow Licenses	ControlDesk ECU Diagnostics Module	Activated Confirmed	130-1731677770	DSP96-5C61C-8FEC5-44DFB-3A895
Return Borrowed Licenses	ControlDesk ECU Interface Module	Activated Confirmed	130-1731677770	DSP25-3227E-1AA31-4E868-40D23
Renew Borrowed Licenses				
Show Ticket Information				
Manual License Confirmation				
Manual RAU File Request				Save to File
Manual CmContainer Creation				
-	Back	Close		Cancel
Show all use cases				
zady				

8 Click Close.

Result

You made the completion of an activation, update or deactivation process known to dSPACE License Central.

Manual License Confirmation

Manual RAU File Request

Motivation	You have to request a RAU file manually if dSPACE Installation Manager only has file-based access to the CmContainer.		
Where to go from here	Information in this section		
	Use Scenario and Workflow for Requesting a RAU File		

Use Scenario and Workflow for Requesting a RAU File

Use scenario	You can request an RAU file (*.WibuCmRaU) from dSPACE License Central. This is useful if an existing RAU file is missing on your PC, for example. After you receive the RAU file, you can complete the file-based activation, update, or deactivation process.
	If dSPACE Installation Manager has local or LAN access to the CmContainer, RAU files are transmitted automatically.



How to Request an RAU File Manually

Objective	To request an RAU file (*.WibuCmRaU) from dSPACE License Central manually.
Preconditions	 An Internet connection for accessing dSPACE License Central exists. You want to activate, deactivate or update your licenses using the file-based method. The ticket ID or ticket group ID used to create the initial RAU file is available.
Method	To request an RAU file manually
	 From Start – dSPACE Installation Manager, select dSPACE Installation Manager. dSPACE Installation Manager opens.
	2 Click the Licensing – License Administration tab.
- 谢 dSPACE Installation Manage Help Licensing (Legacy) R. (h G R $\mathcal{A}_{\mathcal{V}}$ Diagnostics MATLAB Installations Ext Licensing License Overview CmContainer License Administration Select Use Case: **Manual RAU File Request** License Activation License Update You have to request another copy of the RAU file (xxx.WibuCmRaU) in the following cases During license activation, license update, or license deactivation, you did not properly C License Deactivation During license activation, license update, or license deactivation, you did not properly receive the file due to an interrupted Internet connection, for example.
 An RAU file you already received is missing on your PC.
 After you receive the RAU file, you always have to use the file-based access method to complete the activation, update, or deactivation process. Borrow Licenses Return Borrowed Licenses dSPACE Renew Borrowed Licenses License
 Central \bigcirc Show Ticket Information 3. Generate RAU file Data each ange via internet \bigcirc Manual License Confirmation 0 Manual RAU File Request Manual CmContainer Creation Verify Internet Connection Back Next Cancel Show all use cases Ready
- **3** Select Show all use cases on the left of the page.

- 4 Select Manual RaU File Request and click Next.
- **5** Enter or paste the ticket ID or ticket group ID that was used to create the initial RAU file into the edit field and click Add.

dSPACE Installation Manager lists all licenses associated with the ticket IDs as follows:

lelp						
tallations MATLAB Extension	ns Diagnostics Licens	ing				
icense Overview CmContainer Lice	nse Administration					
lect Use Case:		Enter Ticket IDs	for RAU F	ile Crea	ation	
License Update	To get the missing RAU file, sp Ticket I	Decify a ticket ID for a license that is activated o D: ACT-5E663-2A93E-72482-	n the CmContainer fo 3AA90-9FF39	r which you ne	ed the file. Add	
License Deactivation	Request WibuCmRaU File	License Name	Supported Action	License State	Confirmation State	Current CmContainer
Borrow Licenses	S S	CALEXIO Failure Simulation for 200 Functions TI Ethernet I/O Package	Activation Activation	Not activated Not activated	None None	n/a n/a
Return Borrowed Licenses	\bigcirc	ontrolDesk ECU Interface Module	None 🧲	Activated	Unconfirmed >	130-3000405610
<u> </u>						
Renew Borrowed Licenses						
Renew Borrowed Licenses Show Ticket Information						
Renew Borrowed Licenses Show Ticket Information Manual CmContainer Creation						
Renew Borrowed Licenses Show Ticket Information Manual CmContainer Creation Manual RAU File Request						
Renew Borrowed Licenses Show Ticket Information Manual CmContainer Creation Manual CMContainer Creation Manual CmContainer Creation						
Renew Borrowed Licenses Show Ticket Information Manual CmContainer Creation Manual RAU File Request Manual CmContainer Creation						Import from File
Renew Borrowed Licenses Show Ticket Information Manual CmContainer Creation Manual RAU File Request Manual CmContainer Creation						Import from File.

6 Select a license of the desired CmContainer.

Note

An RAU file contains all licenses stored in a specific CmContainer. Thus, it is sufficient to select any license stored in the CmContainer, regardless of the license and the confirmation state. However, dSPACE License Central creates the requested RAU file only if at least one license in the CmContainer has the state Unconfirmed and in addition one of the following states: Activated, Updated or Deactivated.

- 7 Click Finish.
- 8 Select a folder to store the RAU file (*.WibuCmRaU) in and click Save.



Note

Do not rename the file. The file name is the serial number of the CmContainer for which you need the RAU file.

A confirmation prompt opens.



9 Click Yes.

dSPACE Installation Manager automatically requests the RAU file from dSPACE License Central and displays the result as follows:

Ø dSPACE Installation Manager	- • 💌
Help	
Installations MATLAB Extensions Diagnostics Licensing	
License Overview CmContainer License Administration	
Select Use Case:	
Update File Request Completed	
Use the Wibu-Systems tool CodeMeter Control Center to import this WibuCmRaU file for your CmContainer. This will apply the license changes.	
Update file: C:\dSPACE:130-3000405610.WibuCmRaU	
Borrow Licenses	
Return Borrowed Licenses	
Renew Borrowed Licenses	
Show Ticket Information	
Manual CmContainer Creation	
Manual RAU File Request	
Manual CmContainer Creation	
Back Close Cancel	
Ready	

10 Click Close.

Result

You received the desired RAU file (*.WibuCmRaU).

Next step

You can now use the RAU file to update the CmContainer by using CodeMeter Control Center. Refer to How to Update a CmContainer with an RAU File on page 138.

Manual RAU File Request

Manual CmContainer Creation

Motivation	If you do not use a CmDongle, you have to create the required CmActLicense container (software-based CmContainer) by yourself. CmActLicenses are node-locked containers and therefore bound to a specific PC. They cannot be transferred to another PC.
Where to go from here	Information in this section
	Workflows for Creating CmActLicense Containers

Workflows for Creating CmActLicense Containers

Introduction	The workflow differs depending on how dSPACE Installation Manager can access the PC on which you want to create the new CmActLicense container.
Workflows for local and LAN access	If you want to create the CmActLicense container locally on your PC or on a PC that you can access via LAN, dSPACE Installation Manager creates the CmContainer online during license activation.
	 Refer to: How to Activate Licenses (Local Access to CmContainer) on page 60 How to Activate Licenses (LAN Access to CmContainer) on page 64
Workflow for file-based access	If dSPACE Installation Manager does not have access to the PC on which you want to create the new CmActLicense container, you have to create it manually using activation files.



You have to perform the following main steps to create a CmActLicense container manually:

- Create a license information file (*.WibuCmLif). Use dSPACE Installation Manager to do this. Refer to How to Create a License Information File (LIF) on page 187.
- Create an RAC file (*.WibuCmRaC) on the basis of the LIF. Use CodeMeter Control Center to do this. Refer to How to Create an Initial RAC File on page 133.
- 3. Request an RAU file (*.WibuCmRaU). Use dSPACE Installation Manager to do this. Refer to How to Request an RAU File for the New CmActLicense Container on page 189
- 4. Update the CmContainer with the delivered RAU file (*.WibuCmRaU). Use CodeMeter Control Center to do this. Refer to How to Update a CmContainer with an RAU File on page 138.

The license information file (LIF) is the basis for creating CmActLicense containers manually. You only have to create the LIF once. You then can use the file to create several CmActLicense containers. Each CmActLicense container created from the same LIF is given a unique serial number. After you created a new CmActLicense container, you have to activate the CmContainer with an RAU file that you request from dSPACE License Central.

How to Create a License Information File (LIF)

Ready

Objective	To create a license information file (LIF) that is the basis for creating a CmActLicense container manually.			
Basics	You only have to create the LIF once. You can then use the file to create several CmActLicense containers. Each CmActLicense container created from the same LIF is given a unique serial number.			
Method	<text><list-item><list-item></list-item></list-item></text>			
	Back Next Cancel			

🜒 dSPACE Installation Manager	
Help	
Installations Concontainer	ny Departic Lesing
Select Use Case:	
C License Activation	Create And Prepare New CmContainer
C License Update	Create new CmContainer Save a license information (UE) file. On the target computer, use CodeMeter Control Center to import this file. This will create a new CmContainer of the dSPACE Activation
License Deactivation	Container tone Save license information file:
Borrow Licenses	Prepare newly created CmContainer
Return Borrowed Licenses	Detect a KAL hie for a newly created LmContainer of the dSVACE Activation Container type, (You can create KAL hie swith the Wiou-Systems CodeMeter Control Lenter) Installation Manager then generates a RAU file. On the target computer, use CodeMeter Control Center to import the RAU file. After the import, the CmContainer is ready for dSPACE license activation.
Renew Borrowed Licenses	Context file:
Show Ticket Information	
Manual License Confirmation	
Manual RAU File Request	
Manual CmContainer Creation	
Show all use cases	Back Finish Cancel

4 Select Manual CmContainer Creation and click Next.

- 5 Select Save License Information File and specify the path to save the LIF file (*.WibuCmLif), i.e., C:\dSPACE*.WibuCmLif.
- 6 Click Finish.

dSPACE Installation Manager displays the result as follows:

e dSPACE Installation Manager	
Help	
Installations MATLAB Extensions Dagnostics	
License Overview CmContainer License Administration	
Select Use Case:	
License Activation Finished	
License Update On the target computer you must use the Wibu-Systems tool CodeMeter Control Center to import the WibuCmLif file. This will create the new CmContainer.	
C License Deactivation	
Borrow Licenses	
Return Borrowed Licenses	
Renew Borrowed Licenses	
Show Ticket Information	
Manual License Confirmation	
Manual RAU File Request	
Manual CmContainer Creation	
Back Close Cancel	
Ready	

7 Click Close.

Result	You created and saved a license information file (*.WibuCmLif).
Next steps	 Transfer the LIF file (*.WibuCmLif) to the PC on which you want to create a CmActLicense container. Do this with a USB stick or via a network folder, for example. Create an RAC file (*.WibuCmRaC) on the basis of the LIF file. Use CodeMeter Control Center to do this. Refer to How to Create an Initial RAC File on page 133.

How to Request an RAU File for the New CmActLicense Container

Objective	After you created a new CmActLicense container, you have to activate the container with an RAU file (*.WibuCmRaU) that you have to request via dSPACE Installation Manager.			
Preconditions	 An Internet connection for accessing dSPACE License Central exists. An RAC file (*.WibuCmRaC) exists and is available on the PC with dSPACE Installation Manager. Refer to How to Create an Initial RAC File on page 1 			
Method	<section-header><list-item><list-item><list-item></list-item></list-item></list-item></section-header>			
	Back Next Cancel Ready			

4 Select Manual CmContainer Creation and click Next.

5 Select Prepare newly created CmContainer and enter the path to the RAC file.

😢 dSPACE Installation Manager	
Help Licensing (Legacy)	
Installations MATLAB	ins Diagnostics Licensing
License Overview CmContainer Li	ense Administration
Select Use Case:	Create And Branara New CmContainer
License Activation	Cleate And Frepare New Circontainer
C License Update	Create new CmContainer Save a license information (UF) file. On the target computer, use CodeMeter Control Center to import this file. This will create a new CmContainer of the dSPACE Activation
License Deactivation	Container type. Save license information file:
Borrow Licenses	Prepare newly created CmContainer
Return Borrowed Licenses	Detect a row life for a newly created uncontainer or the downer activation container type. (Tou can create row, life with the wildu-system codevieter control center) Installation Manager then generates a RAU file. On the target computer, use CodeMeter Control Center to import the RAU file. After the import, the CmContainer is ready for dSPACE license activation.
Show Ticket Information	Context file_ChdSPACE\130-1883348359.WibuCmRaC
Dongle Migration	
File Download for Legacy Licensi	
Manual License Confirmation	
Manual RAU File Request	
Manual CmContainer Creation	Back Finish Cancel
Show all use cases	
eady	

- 6 Click Finish to start the creation process.
- 7 Select a folder to store the RAU file (*.WibuCmRaU) in and click Save.

💓 Save As			-X-
Comput	er 🔸 System (C:) 🔸 dSPACE 🔸	✓ 4 Search dSPA	CE 🔎
Organize 👻 New fold	ler		III • 🔞
Music Pictures Videos Computer System (C:) Dell Desktop dSPACE	Name Automotion for ConfigurationDesk	Date modified 21.08.2017 10:20	Type File folder
PSIS Solution	۲. III.		
File <u>n</u> ame: 130- Save as <u>t</u> ype: Wibu	1883348359.WibuCmRaU ICmRaU files (*.WibuCmRaU)		• •
Hide Folders		Save	Cancel

Note

Do not rename the file. The file name is the serial number of the CmContainer.

On the basis of the delivered RAC file, dSPACE Installation Manager creates an RAU file (*.WibuCmRaU) that contains information about the created CmContainer.

When the process is completed, dSPACE Installation Manager displays the result as follows:

dSPACE Installation Manager		
Help Ucensing (Legacy)		
Installations MATLAB Extension	ns Diagnostics Licensing	
License Overview CmContainer Licer	nse Administration	
Select Use Case:		
License Activation	Successfully Ceated Update File	
C License Update	On the target computer you must use the Wibu-Systems tool CodeMeter Control Center to import this update file. After this import the CmContainer is ready to use.	
License Deactivation	Update file: ChdSPACE\130-1883348359.WibuCmRaU	
Borrow Licenses		
Return Borrowed Licenses		
Show Ticket Information		
Dongle Migration		
File Download for Legacy Licensi		
Manual License Confirmation		
Manual RAU File Request		
Manual CmContainer Creation		
Show all use cases	Back Close Cancel	
eady		

8 Click Close.

Result	You received the requested RAU file (*.WibuCmRaU).		
Next steps	 Transfer the RAU file (*.WibuCmRaU) to the PC with the CmActLicense container. Do this with an USB stick or via a network folder, for example. Update the CmActLicense container with the delivered RAU file (*.WibuCmRaU). Use CodeMeter Control Center to do this. Refer to How to Update a CmContainer with an RAU File on page 138. 		

Special License Handling Scenarios

Motivation	Handling licenses is also required in some non-standard licensing scenarios.	
Where to go from here	Information in this section	
	Workflow for License Activation for dSPACE Release 2017-A and Earlier	
	Workflow for License Activation for dSPACE Release 2017-A and Earlier	

Workflow for License Activation for dSPACE Release 2017-A and Earlier

Use cases	 You purchased a new dSPACE system with dSPACE Release 2024-A. However, you want to use dSPACE Release 2017-A or earlier with this dSPACE system. You purchased a new dSPACE product that you want to add to your existing dSPACE Release 2017-A installation.
Workflow	Note
	As of October 2019, the workflow for single-user licenses has changed. Refer to Legacy Licensing Using CodeMeter Licenses on page 197.

The following workflow shows the steps for using floating network licenses.

Floating Network License



The dSPACE EULA does not allow FlexNet and CodeMeter license servers to provide the *same floating network license* in parallel. If you have any questions or encounter any problems, contact dSPACE Support.

Workflow for Replacing a Missing CmContainer

Use cases

- The CmDongle is lost or damaged.
- The CmActLicense container is no longer available, for example, because the hard disk of your PC is defective.



NOTICE

Make sure that you can always determine the serial number of all CmContainers you use. dSPACE strongly recommends to document the serial numbers in a place different from the PC on which they are used. dSPACE does not provide new CmDongles or new ticket IDs, if you are not able to determine the unique serial number and forward it to dSPACE. dSPACE agrees to the Notice of Loss / Commitment if it is possible to unambiguously identify the lost CmContainer.

If you have any questions or encounter any problems, contact dSPACE Support.

Further information

ТоDo	Basics	Instructions
License activation	Basics on License Management on page 12	How to Activate Licenses (Local Access to CmContainer) on page 60
		How to Activate Licenses (LAN Access to CmContainer) on page 64
		How to Activate Licenses (File-Based Access to CmContainer) on page 75

Legacy Licensing Using CodeMeter Licenses

Notes on Legacy Licensing Using CodeMeter Licenses

Motivation	If you own a software product from dSPACE Release 2017-B or later and you want to install and use a version of this product from a dSPACE Release earlier than 2017-B, you must have legacy license files and a CodeMeter CmContainer with activated licenses. As of October 2019, you can use dSPACE Installation Manager 5.4 up to dSPACE Installation Manager 22.3 to download license files specifically prepared on the basis of the licenses you purchased. Legacy licensing using CodeMeter licenses maps former product versions to an available license so that you can install and use products from dSPACE Release 7.4 (2012-B) up to and including dSPACE Release 2017-A.
Discontinuation of legacy licensing technologies	 As of dSPACE Release 2023-A, dSPACE Installation Manager no longer supports legacy licensing technologies (WibuKey from Wibu-Systems for dongle licenses and FlexNet from Flexera for floating network licenses). This means: dSPACE Installation Manager 23.1 (on dSPACE Release 2023-A) and later will support only the CodeMeter licensing technology introduced with dSPACE Release 2017-B. dSPACE Installation Manager 23.1 and later no longer provides the file
	 download (keys.dsp and license.dsp) for legacy licensing based on CodeMeter licenses. Installing dSPACE Release 2023-A or later on the same PC as dSPACE Release 2017-A or earlier is no longer supported and therefore not recommended. As of dSPACE Release 2023-A, dSPACE License Manager (Legacy) is no longer shipped and installed with the dSPACE Installation Manager. The associated command line utilities are also discontinued, including in particular the IMLicUtil.exe and the InstallationReporter.exe utilities. If you still need to use the legacy licensing method, you must use the latest version of dSPACE Installation Manager 22.3. You can download dSPACE Installation Manager 22.3 from https://www.dspace.com/go/IM.

Compliance Check for Run-Time Version Licenses

Where to go from here	Information in this section
	Basics on the Compliance Check for Run-Time Version Licenses
	How to Determine and List All Licenses Required for Executing an OSA or an RTA File

Basics on the Compliance Check for Run-Time Version Licenses

MotivationReal-time applications often contain models that need run-time version licenses,
for example, the run-time version licenses for Automotive Simulation Models
(ASM_..._RTV licenses). These licenses are required for downloading and
executing a real-time application on the dSPACE real-time hardware, such as
SCALEXIO.As of dSPACE Release 2023-A, the dSPACE software performs a compliance
check for such run-time version licenses when you download the real-time
application. This check gives you the possibility to verify and fulfill the
agreements in the dSPACE End User License Agreement (EULA).

Note

	 With dSPACE Release 2023-A, dSPACE introduces the compliance check only for the required run-time version licenses for Automotive Simulations Models (ASM), for example, for the ASM Battery Library (run-time version) license. The check for run-time version licenses for other products will be included in later dSPACE Releases. Run-time version licenses for Automotive Simulations Models (ASM) are also required, if you want to execute offline simulation applications (OSAs) on the VEOS platform. An availability check for licenses required for OSAs has already been implemented since dSPACE Release 2017-B. This check is performed by VEOS when starting the simulation. If at least one of the required license is not available, executing the OSA is not possible.
Compliance check during download of RTAs	The compliance check is always performed when an RTA file is downloaded to a dSPACE platform. During the download, the license information contained in the RTA is evaluated and the required licenses are listed in the Message Viewer and written to the dSPACE Log. Checking the required licenses for availability is done using the standard functionality of the CodeMeter licensing technology.
	Note
	 The compliance check does not affect the run-time behavior of the application. There are no delay times during run-time, even if licenses are not available. Even if at least one of the requested licenses is not available, the RTA file is downloaded to the dSPACE platform. However, the download is delayed for 10 seconds and a warning message is displayed in the Message Viewer and in the dSPACE Log. This shows you that you are not working in compliance with the agreements with dSPACE. For details, see below. The download delay time used when the required licenses are not available might be increased in subsequent dSPACE Releases.
	All required licenses are available If all required licenses are available, the download is performed directly without delay. The following example shows the Message Viewer with three licenses that are required. Their status is Available.

3 0 Errors 🤨	Warnings (i) 15 Messages		
Severity	Module	Time	
i) Info	Platform Management	16:42:14.527	Starting activity of type 'Load Application'
i) Info	LicenseChecker	16:42:14.898	Product: ASM_L_EC_RTV, Release Date: 30.10.2022, Count: 1, ProductCode: 1028, Status: Available
i) Info	LicenseChecker	16:42:14.898	Product: ASM_L_ENV_RTV, Release Date: 30.10.2022, Count: 1, ProductCode: 1044, Status: Available
i) Info	LicenseChecker	16:42:14.898	Product: ASM_L_VD_RTV, Release Date: 30.10.2022, Count: 1, ProductCode: 1064, Status: Available
🔥 Warning	SCALEXIO	16:42:14.910	You tried to load an application to RAM memory. However, one or more processing units of your registration platform
🗕 🤃 Info	SCALEXIO	16:42:15.350	Loading application 'C:\Scalexio\ASM_VehicleDynamics_Hybrid.rta' to platform SCALEXIO
i) Info	Platform Management	16:42:15.350	The application does not use I/O function blocks with failure simulation allowed. Failure simulation is disabled.
i) Info	Platform Management	16:42:16.298	The loaded application ASM_VehicleDynamics_Hybrid on platform SCALEXIO has not been started.
🤹 Info	Platform Management	16:42:16.300	Application download completed.
i) Info	SCALEXIO	16:42:16.318	Download of the following real-time application is succeeded: C:\Scalexio\ASM_VehicleDynamics_Hybrid.rta.
👻 🤃 Info	Platform Management	16:42:16.249	Registered platform messages:
👻 🤹 Info	Platform Management	16:42:16.253	Platform SCALEXIO Real-Time PC messages:
i) Info	SCALEXIO Real-Time PC	16:42:16.255	Application loaded by host 'VW-PREETAMM' (10.100.160.138). [390179,946672192]
👻 🤹 Info	Platform Management	16:42:17.257	Platform SCALEXIO Real-Time PC messages:
i) Info	SCALEXIO Real-Time PC	16:42:17.257	Application loaded. [390180,883503857]
i) Info	SCALEXIO Real-Time PC	16:42:17.257	Application stopped. [390180,925955552]

Note: If you use a floating network license with a linger time, the license remains reserved for the requesting PC until the linger time has elapsed.

At least one required license is not available If at least one license is not available, the following happens:

- The required run-time version licenses for the download of the RTA are listed in the Message Viewer. For each unavailable license, a warning message (entry in blue font) with the status Not available is displayed.
- After a delay time of 5 seconds, a second loop begins. This loop also contains a delay time of 5 seconds.

Note

Keep in mind, that this delay time will be increased in subsequent dSPACE Releases.

• The download finally takes place despite the missing license.

The following example shows the Message Viewer with a license that is required but has the status Not Available (entry in blue font). The Message Viewer also displays the two loops of the compliance check.

Product: wressages			
🔕 0 Errors 🧎	3 Warnings 🤃 19 Messages		
Severity	Module	Time	
i) Info	Platform Management	16:43:32.482	Starting activity of type 'Load Application'
i) Info	LicenseChecker	16:43:32.606	Product: ASM_L_EC_RTV, Release Date: 30.10.2022, Count: 1, ProductCode: 1028, Status: Available
i) Info	LicenseChecker	16:43:32.606	Product: ASM_L_ENV_RTV, Release Date: 30.10.2022, Count: 1, ProductCode: 1044, Status: Available
🔥 Warning	LicenseChecker	16:43:32.607	Product: ASM_L_VD_RTV, Release Date: 30.10.2022, Count: 1, ProductCode: 1064, Status: NotAvailable
😲 Info	LicenseChecker	16:43:32.607	One or more license is not available. Retrying 1/2
i) Info	LicenseChecker	16:43:37.725	Retrying 2/2
i) Info	LicenseChecker	16:43:42.727	Product: ASM_L_EC_RTV, Release Date: 30.10.2022, Count: 1, ProductCode: 1028, Status: Available
i) Info	LicenseChecker	16:43:42.727	Product: ASM_L_ENV_RTV, Release Date: 30.10.2022, Count: 1, ProductCode: 1044, Status: Available
A Warning	LicenseChecker	16:43:42.727	Product: ASM_L_VD_RTV, Release Date: 30.10.2022, Count: 1, ProductCode: 1064, Status: NotAvailable
 Info 	LicenseChecker	16:43:42.727	Loading application anyway.
Marning	SCALEXIO	16:43:42.738	You tried to load an application to RAM memory. However, one or more processing units of your registration platform
+ 🚺 Info	SCALEXIO	16:43:42.999	Loading application 'C:\Scalexio\ASM_VehicleDynamics_Hybrid.rta' to platform SCALEXIO
i) Info	Platform Management	16:43:42.999	The application does not use I/O function blocks with failure simulation allowed. Failure simulation is disabled.
i) Info	Platform Management	16:43:43.921	The loaded application ASM_VehicleDynamics_Hybrid on platform SCALEXIO has not been started.
i) Info	Platform Management	16:43:43.921	Application download completed.
i) Info	SCALEXIO	16:43:44.081	Download of the following real-time application is succeeded: C:\Scalexio\ASM VehicleDynamics Hybrid.rta.
+ i) Info	Platform Management	16:43:43.309	Registered platform messages:
• i) Info	Platform Management	16:43:43.309	Platform SCALEXIO Real-Time PC messages:
Notes on us network lice	ing floating enses	If you the N that t there of 30	use floating network licenses, it is possible that a license is displayed with ot available status, although you have purchased this license. It is possible he license is not accessible because it is/was used by another PC and is fore locked. Note that floating network licenses usually have a linger time minutes.
Using the CmdLoader.exe command line utility		You c CmdLa perfo Platfa are th	an also download the RTA file to a dSPACE platform via the oader.exe command line utility. In this case, the compliance check is rmed in the same way as when you download the application with the orm Manager component in the dSPACE software products. The messages ten displayed in the Command Prompt window.
Determining required licenses offline via command line utility		The C deter acces Licens	alculateLicenseDemand.exe command line utility allows you to mine and list the required run-time version licenses offline, without having s to a dSPACE hardware system. Refer to How to Determine and List All ses Required for Executing an OSA or an RTA File on page 202.

How to Determine and List All Licenses Required for Executing an OSA or an RTA File

Objective

The dSPACE Release contains the CalculateLicenseDemand.exe command line utility. This is an independent utility that lists all run-time version licenses required to execute a real-time application (RTA) on a dSPACE real-time

hardware, such as SCALEXIO, or an offline simulation application (OSA) on the VEOS platform.

This allows you to determine the required run-time version licenses (e.g., the ASM_..._RTV licenses) offline, without having access to VEOS or a dSPACE hardware system.

Affected licenses and
RTA/OSA filesWith dSPACE Release 2024-A, the command line utility can only list the required
run-time version licenses for Automotive Simulation Models (ASM), for example,
the ASM Battery Library (run-time version) license.

RTA and OSA files built with the following dSPACE Releases are prepared for this license check and the CalculateLicenseDemand.exe utility can therefore list the required run-time version licenses:

- RTAs files built with dSPACE Release 2022-A and later.
- OSA files built with dSPACE Release 2017-B and later.

Note

Checking and listing run-time version licenses for other products will be included in subsequent dSPACE Releases.

Accessing the CalculateLicenseDemand.exe command line utility		After installation of the dSPACE software, the utility is located in the %ProgramFiles%\ <dspace product="">\bin folder of certain installed dSPACE products, for example, ModelDesk, ControlDesk, ConfigurationDesk. You can access the utility via a Command Prompt window.</dspace>	
Options of th utility	ne command line	The following options are available for the CalculateLicenseDemand.exe command line utility.	
Option	Purpose		
-Help	Lets you display the help information on the command line utility.		

Method

To list all licenses required for executing an OSA or an RTA file

1 Open a Command Prompt window.

Tip

Administrator rights are not required.

2 In the Command Prompt window, change to the folder with the CalculateLicenseDemand.exe.

After software installation, the utility is located in the %ProgramFiles%\<dSPACE Product>\bin folder of certain installed dSPACE products, for example, ModelDesk, ControlDesk, ConfigurationDesk.

- **3** Enter the following command according to your use case:
 - You want to examine a file that is located in the same folder as the command line utility:

CalculateLicenseDemand.exe <RTA or OSA file name>

• You want to examine a file that is located in a different folder. The command must include the file name and its path:

CalculateLicenseDemand.exe <Path name> <RTA or OSA file name>

You want to examine several files at once:

CalculateLicenseDemand.exe <RTA or OSA file name> <RTA or OSA file name>

• You want to examine a file and write the result to a file:

For this use scenario, you have to open a Command Prompt window with the Run as administrator option.

CalculateLicenseDemand.exe <RTA or OSA file name> > <MyResultfile.txt>

4 Press Enter.

Result

The CalculateLicenseDemand.exe command line utility displays the required licenses as shown in the following example.



You can now check whether you have purchased the listed licenses. If not, you have to order them to comply with the dSPACE EULA and to avoid time delays when downloading the RTA files to the dSPACE hardware platform.

Description of the entries in the output result

Option	Purpose
Product	The order number of the license.
Release Date	The release date of the ASM model libraries used in RTA or OSA files. A valid license must contain a maintenance end date greater than the given release date. The maintenance end date limits the usable versions of a software product. All product versions released before the maintenance end date

Option	Purpose
	can be executed. The initial maintenance ends six months after the delivery date of the product but can be extended by purchasing SMS contracts. For details, refer to Validity of CodeMeter Licenses on page 15.
Count	The required quantity of the license.
Product Code	The product code identifies the dSPACE software product associated with the license entry via a unique code.

Appendix

Appendix: Dongle Types

Introduction

Below you find descriptions of all dongle types mentioned in this document as well as their relevant features.

Туре 1	WibuKey dongles
Design	Description
WibuKey dongle Type 1	 Have the original green design. Have 16-bit dongle numbers smaller than 65536. Have a sticker with the dongle number. Work with the legacy licensing method using license.dsp and keys.dsp files. Suitable for the legacy licensing method for all Releases up to and including dSPACE Release 2017-A. Cannot be used for dSPACE Release 2017-B and later. As of dSPACE Release 2023-A: Cannot be migrated to a suitable CmDongle via dSPACE Installation Manager. The WibuKey dongle must be replaced by dSPACE. For details, refer to http://www.dspace.com/go/DongleReplacement.

Type 2

CodeMeter dongles 2-xxx, delivered 12/2014 - 9/2015

Design	Description
CmDongle Type 2	 Have the white design. Have 16-bit dongle numbers smaller than 65536. Have a small aluminum tag with the engraved dongle number. Work with the legacy licensing method using license.dsp and keys.dsp files. Suitable with legacy licensing for dSPACE Release 3.5 on Windows XP SP3 up to and including dSPACE Release 2017-A. Cannot be used for dSPACE Release 2017-B and later. As of dSPACE Release 2023-A: Cannot be migrated to a suitable CmDongle via dSPACE Installation Manager. The CmDongle (Type 2) must be replaced by dSPACE. For details, refer to http://www.dspace.com/go/DongleReplacement.

Туре 3	CodeMeter dongles 3-xxx, delivered 9/2015 – 12/2017	
Design	Description	
CmDongle Type 3	 Have the white design with LEDs and a red plastic inlay. Have 16-bit dongle numbers smaller than 65536. Have a small aluminum tag with the engraved dongle number. Work with the legacy licensing method using license.dsp and keys.dsp files. Suitable for legacy licensing for dSPACE Release 3.5 on Windows XP SP3 up to and including dSPACE Release 2017-A. Migration is required by using an older version of dSPACE Installation Manager (from 5.0 to 22.3). Can then also be used with CodeMeter licensing. Suitable for CodeMeter licensing as of dSPACE Release 2017-B. 	

Туре	4
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CodeMeter dongles 3-xxx, delivered 1/2018 - 12/2021

Design	Description
CmDongle Type 4	 Have the white design with LEDs and a red plastic inlay. Have dongle numbers greater than 70000. Have large aluminum tag with a sticker stating the CmDongle serial number. Work for legacy licensing method using license.dsp and keys.dsp files. Suitable for legacy licensing for dSPACE Releases 2013-B 2017-A¹⁾ Suitable for CodeMeter licensing as of dSPACE Release 2017-B.

¹⁾ The lower limit of dSPACE Release 2013-B is due to the License Manager version used in all products in earlier dSPACE Releases. The License Manager version was limited to handling 16-bit dongle numbers.

Type 5	CodeMete
Type 5	couchieu

CodeMeter dongles 3-xxx, delivered as the 2-xxx replacement

Design	Description
CmDongle Type 5	 Were delivered in Q1/2017 to replace existing CmDongles (Type 2). Come without an embedded WibuKey ID. Do not have an aluminum tag. Receive the embedded WibuKey ID from the CmDongle (Type 2) during dongle migration. Note: As of dSPACE Release 2023-A, the CmDongles (Type 2) cannot be migrated to a suitable CmDongle via dSPACE Installation Manager. The CmDongle (Type 2) must be replaced by dSPACE. For details, refer to http://www.dspace.com/go/DongleReplacement. Have to receive their aluminum tag with engraved dongle number from the migrated CmDongle (Type 2). Are identical to type 3 dongles after dongle migration.

Type 6

CodeMeter dongles 3-xxx, delivered with SMS updates to dSPACE Release 2017-B or later

Design	Description
CmDongle Type 6	 Were delivered as of Q1/2018 to replace existing WibuKey dongles. Have a large aluminum tag with a sticker with the CmDongle serial number. Come without an embedded WibuKey ID. Receive the embedded WibuKey ID from the WibuKey dongle during dongle migration. Note: As of dSPACE Release 2023-A, the WibuKey dongles (Type 1) cannot be migrated to a suitable CmDongle

Design	Description
	 via dSPACE Installation Manager. The WibuKeyDongle (Type 1) must be replaced by dSPACE. For details, refer to http://www.dspace.com/go/DongleReplacement. Are identical to type 3 CmDongles after dongle migration. The only difference is the number on the aluminum tag, which is the serial number instead of the dongle number.
	The same procedure is applied if WibuKey dongles (Type 1) were not subject to

The same procedure is applied if WibuKey dongles (Type 1) were not subject to the SMS update in Q1/2018, but are later updated to dSPACE Release 2017-B or later.

Туре 7

CodeMeter dongles 3-xxx, delivered 1/2022 - present

Design	Description
CmDongle Type 7	Have a metal design with a blue plastic inlay.
- AC	 Do not have an aluminum tag.
ia wr	 The CmDongle serial number is printed on the the metal housing near the dSPACE logo.
	 Come without an embedded WibuKey ID.
Serial number	 Can receive the embedded WibuKey ID from an old dongle during dongle migration.
	Note: As of dSPACE Release 2023-A, the WibuKey dongles (Type 1) and the CmDongles (Type 2) cannot be
	migrated to a suitable CmDongle Type 7 via dSPACE Installation Manager. The dongles must be replaced by
	dSPACE. For details, refer to http://www.dspace.com/go/DongleReplacement.
	 Work for legacy licensing method using license.dsp and keys.dsp files. Only if the WibuKey ID was
	previously stored on the CmDongle via dongle migration.
	• Suitable for legacy licensing using CodeMeter licenses to receive license.dsp and keys.dsp for dSPACE
	Releases 2013-B 2017-A.
	 Suitable for CodeMeter licensing as of dSPACE Release 2017-B.

Dongle types and supported dSPACE Releases

Dongle Type	Supported dSPACE Releases
Type 1	All Releases up to and including dSPACE Release 2017-A.
Type 2	dSPACE Release 3.5 dSPACE Release 2017-A.
Type 3	dSPACE Release 3.5 dSPACE Release 2017-A and later.
Type 4	 dSPACE Release 2013-B dSPACE Release 2017-A and later. All CmDongles delivered by the end of 2017, including their migrated replacements, support all Releases as of dSPACE Release 3.5. All CmDongles delivered as of 1/2018 support dSPACE Release 2013-B and later.
Type 7	dSPACE Release 2013-B and later

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