dSPACE Installation Manager

# Glossary

Release 2021-A – May 2021

**dSPACE**

## How to Contact dSPACE

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## How to Contact dSPACE Support

If you encounter a problem when using dSPACE products, contact your local dSPACE representative:

- Local dSPACE companies and distributors: http://www.dspace.com/go/locations
- For countries not listed, contact dSPACE GmbH in Paderborn, Germany.
  Tel.: +49 5251 1638-941 or e-mail: support@dspace.de

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

If possible, always provide 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 http://www.dspace.com/go/patches for software updates and patches.
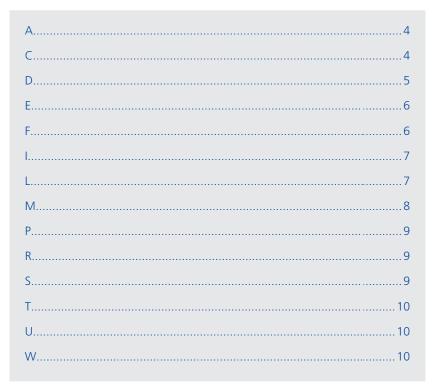
## Important Notice

# dSPACE Installation Manager Glossary

**Introduction**

The glossary briefly explains the most important expressions and naming conventions used in the dSPACE Installation Manager documentation.

**Where to go from here**

Information in this section

# A

**Active installation**     One of the installations of each dSPACE software installation (for example, ControlDesk) is the active installation. If a system contains more than one installation (for example, for different Releases), you can activate a specific installation manually.

The effects of activating a dSPACE installation depend on the dSPACE software product or dSPACE installation. For example, activating a specific RCP and HIL software installation means that you can start the contained products and work with them. The shortcuts in the Start – All Programs menu change according to the selected installation.

# C

**CmActLicense container**     Software-based variant of a CmContainer ⧉ . CmActLicense containers are bound to a specific PC. They cannot be transferred to another PC.

**CmContainer**     CmContainers are basic components of the CodeMeter licensing technology, and the license information is stored in them. 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 container ⧉ (software-based).

**CmDongle**     Hardware-based CmContainer ⧉ of the CodeMeter ⧉ licensing technology. The complete license information is stored on a smart card chip in the CmDongle. CmDongles are available in different variants. The one provided by dSPACE is called CmStick.

Can also be used to emulate legacy licensing technologies to execute dSPACE Release 2017-A and earlier.

**CodeMeter**     Future-proof licensing technology for single-user licenses ⧉ (dongle licenses) and floating network licenses ⧉ from Wibu-Systems.

dSPACE uses the CodeMeter technology for handling licenses in combination with dSPACE Release 2017-B and later.

**CodeMeter Control Center**     A CodeMeter user interface, that provides access to CodeMeter Runtime ⧉ software. It displays information on connected CmContainers, and provides options to configure them. It creates, among

others, RAC files ⧉ and RAU files ⧉, which are required when using the file-based method for license activation, deactivation, or license updates.

**CodeMeter Runtime**    A software from Wibu-Systems that provides the basic functionality of the CodeMeter ⧉ licensing technology. It is installed automatically with dSPACE Installation Manager, but can also be installed separately.

**CodeMeter WebAdmin**    CodeMeter tool displaying information on connected CmContainers and related license information in a browser. In addition, configuration options for the CodeMeter Runtime ⧉ software are provided. For example, CodeMeter WebAdmin must be used to set up a dSPACE License Server ⧉ and connect dSPACE License Clients ⧉ to the server.

# D

**Decryption**    A process in dSPACE Installation Manager that is required to decrypt the files which are installed in encrypted archives. You can only decrypt parts of the dSPACE installation for which you have valid licenses. After decryption, you can use the full functionality of the installed dSPACE software.

**Diagnostic information**    Information about the dSPACE software environment on your PC that is collected by the diagnostics feature of dSPACE Installation Manager. It is saved to a ZIP file and can be provided to dSPACE Support to analyze problems.

**dSPACE Activation Container**    A specific dSPACE term for CmActLicense container ⧉. The term is displayed on overview pages in the dSPACE Installation Manager.

**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 to a dSPACE Borrow Container.

**dSPACE Crypt Container**    A specific software-based CmContainer ⧉ for internal use only. It is installed automatically with the dSPACE software and is generally required for running dSPACE software.

**dSPACE License Central**    A database used for the dSPACE license management. Works in combination with dSPACE Installation Manager to carry out license activation, license updates, and license deactivation.
dSPACE License Central is hosted by dSPACE GmbH and is secured against unauthorized access by a Web gateway.

**dSPACE License Client**    A PC on which you want to run dSPACE software if you purchased floating network licenses.

The PCs (dSPACE License Clients) have to be connected to the dSPACE License Server ⎘ via a TCP/IP connection.

**dSPACE License Manager (Legacy)**   A dSPACE software product for managing licenses for dSPACE software installations of dSPACE Release 2017-A and earlier. It is always installed together with dSPACE Installation Manager.

**dSPACE License Server**   A PC in a network that is configured as a license server and provides floating network licenses ⎘ to be used by dSPACE License Clients ⎘ in the network.

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.

# E

**Encrypted archive**   Specific parts of the dSPACE software, for example, the documentation, demo models, and .NET code are installed in encrypted archives on the end user's PC. To use and to work with them, you have to decrypt the encrypted archives of the installed products once. You can only decrypt parts for which you have valid licenses.

**Expiration date**   A date that indicates when a time-limited license expires, e.g., an evaluation license. After this date, the related dSPACE software product is no longer usable.

# F

**File-based access**   Describes a specific method by which dSPACE Installation Manager can access CmContainers ⎘ from a PC.

File-based access is used if dSPACE Installation Manager cannot access the CmContainer at all. In this case, CodeMeter Control Center ⎘ must be used to create RAC files ⎘ and RAU files ⎘ required for license activation, deactivation, or update.

The files must be transferred manually between the PC with the CmContainer and the PC on which dSPACE Installation Manager is installed. dSPACE Installation Manager must be connected to dSPACE License Central ⎘ via the Internet to exchange data.

**FlexNet**   Licensing technology for floating network licenses ⎘ based on FLEXnet Publisher, a product of Flexera Software Inc.

dSPACE uses the FlexNet technology for handling floating network licenses in combination with dSPACE Release 2017-A and earlier.

**Floating network license**     A specific type of license that is provided by a dSPACE License Server for concurrent use of licenses by dSPACE License Clients via LAN connection.

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

# I

**Integrated (into MATLAB installation)**     A status of the MATLAB connection ⧉ .

# L

**LAN access**     Describes a specific method by which dSPACE Installation Manager can access CmContainers ⧉ from a PC.

LAN access is used, if the PC with the CmContainer does not have an Internet connection but is connected to other PCs via LAN. 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.

**Legacy licensing using CodeMeter licenses**     A feature that lets you install and use software products from dSPACE Release 7.4 (2012-B) up to dSPACE Release 2017-A, but is based on your CodeMeter ⧉ licenses valid as of dSPACE Release 2017-B. Legacy licensing using CodeMeter licenses maps former product versions to an available CodeMeter license.

**License ID**     The meaning differs depending on the licensing technology used:

- CodeMeter ⧉ licensing technology

  Unique ID of the instance of a license. Every license that 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. The ID does not change when the license is updated or moved to a different CmContainer.

- WibuKey ⧉ licensing technology

  Unique ID of a WibuKey dongle ⧉ that also is printed on a sticker on the dongle. Also is known as dongle number.

**License overview sheet**　An Excel sheet that dSPACE sends via e-mail and lists all the ticket IDs for the required purchased products.

**License quantity**　Attribute of a floating network license that specifies the maximum number of concurrent licenses that the dSPACE License Server can provide to dSPACE License Clients ⓘ. Multiple licenses with different license quantities can exist on one license server for the same dSPACE product.

**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.

**Local access**　Describes a specific method by which dSPACE Installation Manager can access CmContainers ⓘ from a PC.

Local access is used, if dSPACE Installation Manager is installed on the PC with direct access to the CmContainer. For license activation, deactivation, or update dSPACE Installation Manager additionally needs an Internet connection to dSPACE License Central ⓘ.

# M

**Maintenance end date**　A date that limits the usage of software versions. 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.

**MATLAB connection**　The connection between a dSPACE installation (that requires working with MATLAB) and a MATLAB installation.

The MATLAB connection has different states:

- *Integrated*: dSPACE software is integrated into a specific MATLAB installation. This MATLAB installation then is prepared to be used with dSPACE software.
- *Connected*: Only a connected MATLAB installation is ready to be used with dSPACE software. Only integrated MATLAB versions can be connected to dSPACE software.
- *Preferred*: A preferred connection is the connection that dSPACE products use, e.g., when starting MATLAB or generating specific MATLAB files.

  If only one MATLAB installation is connected, it is automatically the preferred connection. If multiple MATLAB installations are connected to one dSPACE installation, one of them is the preferred connection.

## P

**Preferred**   A status of the MATLAB connection ⓘ.

**Product code**   A number that identifies the dSPACE software product associated with the license entry using a unique code.

## R

**RAC file**   Short name for the *.WibuCmRaC file. This remote activation context (RAC) file contains a fingerprint of the CmContainer ⓘ contents.

When you use the file-based access method, the file is created by CodeMeter Control Center ⓘ and has to be sent to dSPACE License Central ⓘ via dSPACE Installation Manager.

**RAU file**   Short name of the *.WibuCmRaU file. This remote activation update (RAU) file contains a fingerprint of the CmContainer ⓘ contents.

When you use the file-based access method, the file is created by dSPACE License Central ⓘ and is used to update CmContainers.

## S

**Server search list**   A list that has to be defined by the user on the dSPACE License Clients ⓘ. dSPACE software searches for CmContainer ⓘ on the dSPACE License Servers ⓘ that are listed in the server search list.

**Single-user license**   A specific type of license that is used when the license has to be accessed only by a single user. Single-user licenses can be used only locally on the PC where the dSPACE software is running.

Single-user licenses are typically stored on CmDongles.

**SMS end date**   The date when the optional Software Maintenance Service (SMS) contract purchased for a specific software product ends. The SMS end date extends the maintenance end date ⓘ of the related license. It thus permits the execution of newer software versions.

# T

**Ticket**    License handling 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 for each license. Each ticket is labeled by its ticket ID ⎘.

**Ticket group**    A group of tickets based on the purchase order. For example, a ticket group combines tickets that dSPACE expects to be activated in one CmContainer ⎘.

**Ticket group ID**    A unique alphanumeric string of characters that provides access to a collection of tickets using a single ID.

**Ticket ID**    A unique alphanumeric string of characters that labels a ticket. 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 of a license is extended with an SMS order.

# U

**Usage period**    The time in days for which the license can be used. The period begins with the first use of the activated license by the related dSPACE product and ends when the number of days specified expires.

# W

**WibuKey**    Licensing technology for single-user licenses ⎘ (dongle licenses) from Wibu-Systems.

dSPACE uses the WibuKey technology for handling dongle licenses in combination with dSPACE Release 2017-A and earlier. To work with dSPACE legacy licensing technologies, you have to use the dSPACE License Manager (Legacy) ⎘.

**WibuKey dongle**    A USB stick to protect dSPACE software in combination with the WibuKey ⎘ licensing technology:

- Suitable for dSPACE Release 2017-A and earlier.
- Its license ID ⎘ (dongle number) must be migrated to a CmDongle 3-xxx if the related licenses are updated to dSPACE Release 2017-B and later.

**WibuKey ID**    An entry in a CmDongle ⎘ used to emulate the license ID ⎘ (dongle number) required for dSPACE Release 2017-A and earlier.