

dSPACE License Manager (Legacy)

# Working with Legacy Licensing Technologies

Release 2021-A – May 2021

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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](mailto: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

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# About This Document

## Contents

This document shows you how to manage licenses for dSPACE Release 2017-A and earlier.





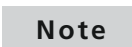



Licenses for these Releases are based on legacy licensing technologies: WibuKey from Wibu-Systems for dongle licenses and FlexNet from Flexera for floating network licenses. To work with dSPACE legacy licensing technologies, you have to use the **dSPACE Licence Manager (Legacy)**.

## Required knowledge

Knowledge in handling the host PC and the Microsoft operating system is assumed.

## Symbols

dSPACE user documentation uses the following symbols:

Symbol	Description
 <b>DANGER</b>	Indicates a hazardous situation that, if not avoided, will result in death or serious injury.
 <b>WARNING</b>	Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
 <b>CAUTION</b>	Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.
 <b>NOTICE</b>	Indicates a hazard that, if not avoided, could result in property damage.
 <b>Note</b>	Indicates important information that you should take into account to avoid malfunctions.
 <b>Tip</b>	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.
	Precedes the document title in a link that refers to another document.

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## Naming conventions

dSPACE user documentation uses the following naming conventions:

**%name%** Names enclosed in percent signs refer to environment variables for file and path names.

**< >** Angle brackets contain wildcard characters or placeholders for variable file and path names, etc.

---

## Special folders

Some software products use the following special folders:

**Common Program Data folder** A standard folder for application-specific configuration data that is used by all users.

`%PROGRAMDATA%\dSPACE\<InstallationGUID>\<ProductName>`

or

`%PROGRAMDATA%\dSPACE\<ProductName>\<VersionNumber>`

**Documents folder** A standard folder for user-specific documents.

`%USERPROFILE%\Documents\dSPACE\<ProductName>\<VersionNumber>`

**Local Program Data folder** A standard folder for application-specific configuration data that is used by the current, non-roaming user.

`%USERPROFILE%\AppData\Local\dSPACE\<InstallationGUID>\<ProductName>`

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## Accessing dSPACE Help and PDF Files

After you install and decrypt dSPACE software, the documentation for the installed products is available in dSPACE Help and as PDF files.

**dSPACE Help (local)** You can open your local installation of dSPACE Help:

- On its home page via Windows Start Menu
- On specific content using context-sensitive help via **F1**

**dSPACE Help (Web)** You can access the Web version of dSPACE Help at [www.dspace.com/go/help](http://www.dspace.com/go/help).

To access the Web version, you must have a *mydSPACE* account.

**PDF files** You can access PDF files via the  icon in dSPACE Help. The PDF opens on the first page.

# Basics on dSPACE License Types (Legacy)

**Objective** Two different license types (dongle license, floating network license) are available for working with the dSPACE software after installation, depending on your order.

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## Basics on dSPACE License Mechanisms (Legacy)

**Validation**

**Note**

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

**Licensing**

Various dSPACE products on the dSPACE DVDs are license-protected. The license type covers both the installation and the use of the installed software as follows:

- For installation, you need two license files (**Keys.dsp** and **License.dsp** file). The **Keys.dsp** file contains information on the software products which can

be installed during the installation procedure. The **License.dsp** file contains information on the products you can run after installation on your host PC.

- To execute applications protected by license, the license protection must be enabled. Two different license types (dongle license, floating network license) are available for working with the dSPACE software after installation, depending on your order.

For basics on the different license types, refer to:

- [Dongle License Mechanism \(Legacy\)](#) on page 8
- [Floating Network License Mechanism \(Legacy\)](#) on page 10

## Dongle License Mechanism (Legacy)

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

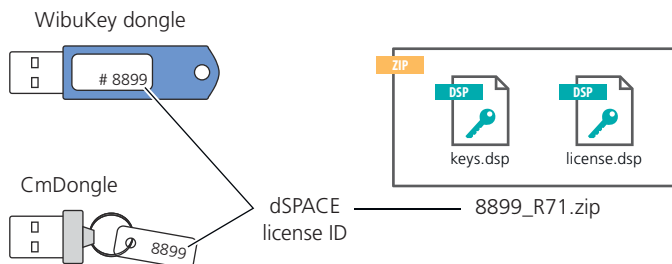
### Basics on the mechanism

With dongle licenses, the dSPACE software is protected by a license mechanism based on an execution key (dongle) and a license file. The local license files (one for each software installation to be installed on your host PC) are created automatically during installation. To execute applications protected by license, a dongle must be connected to your host PC to enable the license.

### Elements overview

dSPACE dongle licensing is based on three elements:

- Execution key (dongle)
- **Keys.dsp** file
- **License.dsp** file





You receive the **Keys.dsp** and **License.dsp** files via e-mail in a ZIP archive.

#### Tip

Before sending the license files via e-mail, dSPACE creates a ZIP archive which contains the license files and usually changes the file name extension of the ZIP archive to PIZ to prevent them being filtered by your e-mail server.

#### Note

It is strongly recommended to make a backup copy of the license files.

#### Note

Do not separate the **Keys.dsp** and **License.dsp** file to different folders on your system. Both files can only be used in combination.

## Dongle

The dongle has to be connected to a USB port of your PC. You can use several dongles of identical or different types at the same time on your PC.

#### Note

Install the dSPACE software including the dongle driver software *before* connecting the dongle to the USB port.

**New CmDongles** As of dSPACE Release 2014-B, the hardware dongle for dongle licenses is now a CmDongle instead of a WibuKey dongle. Both are products of WIBU-Systems and are shown below.



With dSPACE Release 2014-B, the new CmDongles were shipped with new dSPACE systems for the first time.

Keep the following compatibility information in mind:

- In general, you can use dSPACE Release 2017-A with an already delivered WibuKey dongle. As of dSPACE Release 2014-B, the drivers for both dongle versions are installed on your host PC. The driver software automatically detects which dongle is used. No further user action is necessary.
- If you want to use dSPACE Release 2014-A and earlier with the new CmDongle, you have to install dSPACE Installation Manager 3.8 (or later) on your host PC. This version contains the driver for the new dongle. You can download the latest version of dSPACE Installation Manager from <http://www.dspace.com/go/imupdate>.
- dSPACE Release 6.3 and earlier versions have not been tested for the new CmDongle. If necessary, contact dSPACE Support.

- The CmDongles can also be used with dSPACE Release 2017-B. You only have to update the license information stored on the dongle via dSPACE Installation Manager 5.0 or later.

**License ID** The dSPACE License ID (= dongle number) is indicated on the dongle shell (WibuKey dongles) or on the dongle tag (CmDongles). The number is also registered in the **License.dsp** file. dSPACE Support can identify your dSPACE software components by it.

CmDongles shipped with dSPACE Release 2017-B and later carry the serial number on the dongle tag instead of the License ID.

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### Keys.dsp file

The **Keys.dsp** file contains information on the software products you can *install* from the related dSPACE Release. It is used only during software installation. The **Keys.dsp** file is associated with a specific software release, but not with a specific dSPACE License ID.

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### License.dsp file

The **License.dsp** file contains information on the products you can *run* with a specific dongle. Only software components that need a license code are listed here. The license-free components, for example, various Real-Time Libraries (RTLs), are not listed. The **License.dsp** file is associated with a specific software release *and* the dSPACE License ID.

If a dSPACE DVD contains different versions of a product, multiple license entries can be present in the supplied **License.dsp** file.

The local **License.dsp** file is created on your hard disk from the supplied **License.dsp** file automatically during the installation of the dSPACE software. This file can contain entries for different dongles, but the entries for dongles not connected to the PC are ignored. Each software installation has its own local license file.

## Floating Network License Mechanism (Legacy)

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### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

## Basics of the mechanism

If you purchased floating network licenses, one Windows PC in the network has to be configured as the *dSPACE License Server*. The PCs on which you want to run the dSPACE software (*dSPACE License Clients*) need to be connected to the *dSPACE License Server* via TCP/IP.

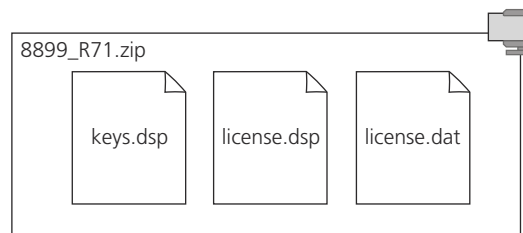
With floating network licenses, the *dSPACE License Client* automatically requests the license required by a particular action from the connected *dSPACE License Server* (automatic activation). If there is at least one license available, you can go on working with the dSPACE software as usual. At the same time, the license is blocked for other clients.

## Elements

The license mechanism is based on three files, which are supplied via e-mail in a ZIP archive:

- **Keys.dsp** file
- **License.dsp** file
- **License.dat** file

The following illustration serves as an example.



### Tip

Before sending the license files via e-mail, dSPACE creates a ZIP archive which contains the license files and changes the file name extension of the ZIP archive to PIZ to prevent them being filtered by your e-mail server.

### Note

It is strongly recommended to make a backup copy of the license files.

## Keys.dsp file

The **Keys.dsp** file contains information on the software products you can *install* from the related dSPACE Release. The **Keys.dsp** file is associated with a specific software release. It is used only during software installation and only for the dSPACE License Clients.

## License.dsp file

The **License.dsp** file contains information on the products you can *run* with a floating network license. Only software components that need a license code are listed here. The unlicensed components, for example, various Real-Time Libraries

(RTLibs), are not listed. The **License.dsp** file is associated with a specific software release. It is needed only for the dSPACE License Clients.

If a dSPACE DVD contains different versions of a product, multiple license entries can be present in the supplied **License.dsp** file.

A local license file is created on the dSPACE License Client's hard disk from the supplied license information. This is an automatic action during the installation of the dSPACE software.

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#### License.dat file

The **License.dat** file for the dSPACE License Server contains the floating network license codes for the available dSPACE products and information on the validity of the licenses. This file has to be specified in the FlexNet publisher software. Refer to [How to Update the License.dat File on the dSPACE License Server \(Legacy\)](#) on page 62.

A local **License.dat** file for connecting the dSPACE license clients to the license server is created from the supplied license information on the hard disks of the dSPACE License Clients. This is an automatic action during the installation of the dSPACE software.

##### Note

As of dSPACE Release 7.2, the **License.dat** file is required only for installing the dSPACE License Server but not for installing the dSPACE software on the dSPACE License Clients.

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#### Basics of timeout mechanism

There is a timeout mechanism for several dSPACE licenses. If you do not perform an action triggering an automatic license check for more than 30 minutes (default linger time), the license is released and can be used by other dSPACE License Clients.

After a process has finished, for example, by closing an RTI block dialog or a TargetLink model on the dSPACE License Client, the license remains reserved for that client until the timeout occurs. If a dSPACE License Client crashes, the corresponding licenses remain reserved for that client until the timeout occurs.

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#### Extending the linger time

The linger time of products protected by floating network licenses is set to a default value. Using the FLEXnet Publisher software, the default linger time can be extended on the dSPACE License Server. This ensures that you can use a protected product or module for a longer period without losing the license.

However, you cannot specify timeout values less than 30 minutes. For details, for example, on how to extend the linger time, refer to the *FLEXnet License Administration Guide*. To access it, select:

- On the dSPACE License Server: **Start – Programs – dSPACE License Server – FLEXnet Licensing End User Guide**.

- Or open the Tools\LicenseServer\fnp\_LicAdmin.pdf file on the dSPACE DVD.

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**License behavior of specific products**

For details on the license-protected dSPACE software products and with explanations on how they work with floating network licenses, refer to [License Behavior \(Legacy\)](#) on page 69.

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**Compatibility with CodeMeter licensing technology (dSPACE Release 2017-B and later)**

For floating network licenses, the CodeMeter licensing technology cannot provide downward compatibility. If you need to use product versions of earlier dSPACE Releases, you have to keep your FlexNet License Server running in parallel. However, 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 *same floating network license* in parallel. If you have any questions or encounter any problems, contact dSPACE Support ([www.dspace.com/go/supportrequest](http://www.dspace.com/go/supportrequest)).



# Getting Details on dSPACE Licenses (Legacy)

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## Where to go from here

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## How to Show Available Licenses (Legacy)

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### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

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### Objective

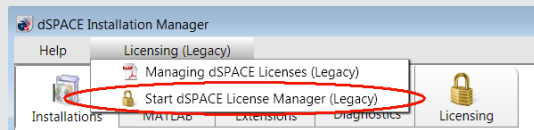
The available licenses can be viewed with dSPACE License Manager (Legacy).

**Method****To show licenses available on your host PC**

- 1 From Start – dSPACE Installation Manager, select dSPACE License Manager (Legacy).

**Tip**

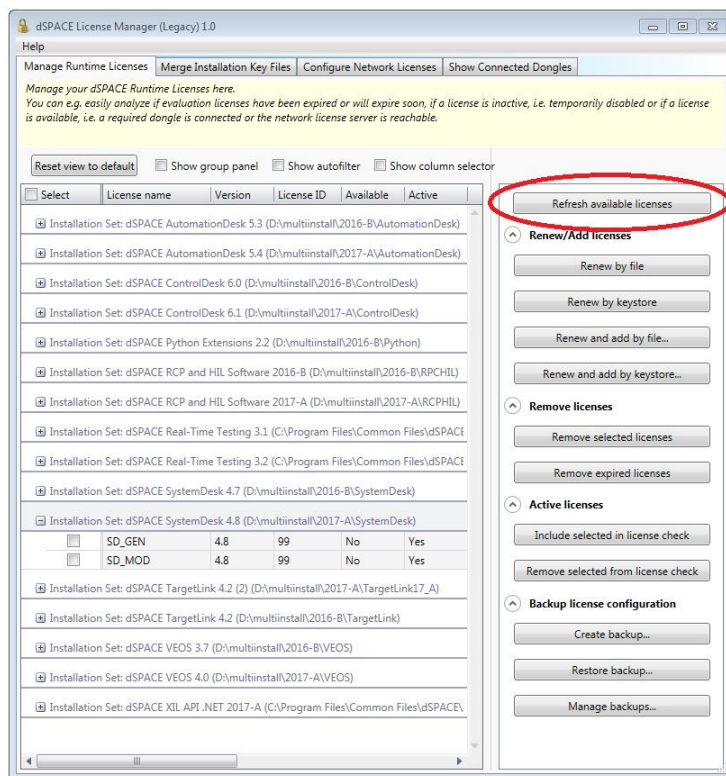
You also can start dSPACE License Manager (Legacy) via dSPACE Installation Manager as shown below:



dSPACE License Manager (Legacy) opens.

- 2 Click the Manage Runtime Licenses tab.

The tabbed page lists all the dSPACE installations on your host PC as shown below.



- 3 Click the Refresh available licenses button to update the information.
- 4 Select an installation set from the list and expand it to see the license entries. The entries in the local `License.dsp` file that is associated to the selected installation on your PC are displayed. The table entries (from left to right) have the following meanings:



Entry	Description
License name	Name of the license.
Version	Version of the license.
License ID	Identification number of the license. The number also is indicated on the dongle shell (WibuKey dongles) or on the dongle tag (CmDongles). CmDongles shipped with dSPACE Release 2017-B and later carry the serial number on the dongle tag instead of the License ID.
Available	Yes means: <ul style="list-style-type: none"> <li>▪ Dongle licenses: The dongle which is needed to execute the software protected by the license is connected to the host PC.</li> <li>▪ Floating network license: At least one license is available on the dSPACE License Server. The dSPACE License Client automatically requests the license required by a particular action from the connected dSPACE License Server.</li> </ul>
Active	Yes means that the license is activated and the software protected by the license can be used, if the corresponding dongle is connected to the host PC (dongle license mechanism), or if a free license is available on the dSPACE License Server (floating network license mechanism).
Expired	Yes means that the license has expired. Time-limited licenses are supplied, for example, if you purchased floating network licenses, or if you received a demo license.
Expiration Date	The date on which a time-limited license expires.
Kind	Kind of license mechanism. The possible entries are: <ul style="list-style-type: none"> <li>▪ Full: Unrestricted license</li> <li>▪ Demo: Restricted license (because of time limits, etc.)</li> </ul>
Type	Type of license mechanism. Possible entries are: <ul style="list-style-type: none"> <li>▪ WIBU: Dongle license</li> <li>▪ FlexNet: Floating network license</li> </ul>
Note	Specific information on the license, for example, information on restrictions when using the license.

## How to Collect Information on Connected Dongles via Command Line Utility (Legacy)

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

**Objective**

The dSPACE License Manager (Legacy) provides the **IMLicUtil.exe** command line utility, which lets you perform tasks like collecting information about the dongle(s) connected to your local host PC.

**Discontinuation****Note**

Due to technological changes regarding to installation and licensing, the **IMLicUtil.exe** command line utility will be discontinued in the future.

**Possible use scenario**

You can use the command line utility in a batch file to check if the required dongles are connected to host PCs. This is useful before starting time-consuming build processes which require a valid dongle license.

**Note**

With the **IMLicUtil.exe** command line utility, you only can connect information on dongles, that are delivered for dSPACE Release 2017-A and earlier. The utility does not support CmDongles delivered for dSPACE Release 2017-B and later.

**Accessing the IMLicUtil.exe command line utility**

The **IMLicUtil.exe** command line utility is located in the `%CommonProgramFiles%\dSPACE\InstallationManager\bin` folder of your dSPACE installation.

You can access this utility via the **Command Prompt for Legacy Tools** shortcut in the Windows Start menu.

**Commands and options of the IMLicUtil.exe command line utility for collecting dongle information**

The following commands and options are available for the related task:

Option	Purpose
<code>-Command:listDongle</code>	Collects information of all the dongles connected to your host PC
<code>-LicenseID: &lt;dongle identification number&gt;</code>	Lets you specify the identification number (License ID) of the dongle. The number of a dongle license is also indicated on the dongle shell (WibuKey dongles) or on the dongle tag (CmDongles). CmDongles shipped with dSPACE Release 2017-B and later carry the serial number on the dongle tag instead of the license ID.

Option	Purpose
-Version	Lets you display the version number of the <b>IMLicUtil.exe</b> command line utility.
-Help	Lets you display the help information on the <b>IMLicUtil.exe</b> command line utility.

If you type the options incorrectly, e.g., only in upper or lower case, the help information for the command line tool is displayed.

**Example** To display the **IMLicUtil.exe** help, enter the following string in the Command Prompt window (via the **Command Prompt for Legacy Tools** shortcut):

```
IMLicUtil -Help
```

---

<b>Precondition</b>	You do not need administrator rights to use the <b>IMLicUtil.exe</b> command line utility.
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<b>Method</b>	<p><b>To collect information on connected dongles via command line utility</b></p> <ol style="list-style-type: none"> <li>From <b>Start – dSPACE Installation Manager</b>, select <b>Command Prompt for Legacy Tools</b>. A Command Prompt window opens.</li> <li>Type in the following and press <b>Enter</b>: <b>IMLicUtil -Command:listDongle</b></li> </ol>
---------------	---

**Tip**

If you want to collect information of a specific dongle connected to your host PC, you can use the following option:

```
-LicenseID:<dongle identification number>
```

---

<b>Result</b>	The <b>IMLicUtil.exe</b> command line utility returns the following output.
---------------	---

```
Collecting information about local dongles...
```

```
Found number of dongles: 2
```

```
Serial High:10
Serial Low:10468895
License ID:1028
```

```
Serial High:2
Serial Low:2645208
License ID:2244
```



# Managing the Run-Time Licenses in the Local License.dsp File (Legacy)

**Use cases for managing run-time licenses**

In particular cases, it is necessary to manage the run-time licenses in a local `License.dsp` file:

- Replacing existing licenses (for example, expired demo licenses) with new ones.
- Managing licenses on several dSPACE systems. This means that you can install the dSPACE software on as many PCs as you like. However, to run the software, the `License.dsp` file and the matching dongle must be present.

The dSPACE License Manager (Legacy) provides several functions for this purpose.

**Where to go from here**

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## How to Renew Licenses in a Local License File (Legacy)

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

### Objective

In special cases it is necessary to add new licenses to a local **License.dsp** file.

### Use scenarios for renewing and adding licenses

- If your dongle has been damaged and you need a replacement, dSPACE provides you with a new dongle with a different dSPACE License ID and new license information.  
This license information is supplied via e-mail in a ZIP archive and contains the same **Keys.dsp** and **License.dsp** files as the license information of your old (damaged) dongle but with new key codes for the new dongle. The **License.dsp** file from the new license information has to be added to the **License.dsp** file on your PC. The license codes for the damaged dongle can be deleted afterwards.
- If your demo license expired and you need a replacement.
- If you have mistakenly deleted the licenses from a local license file.

#### Note

Every installation set on your host PC contains its own local license files.

### Restrictions

#### Note

The dSPACE License Manager (Legacy) does not check the compatibility of the **Keys.dsp** and **License.dsp** files. It adds every license that is not in the local **License.dsp** file which belongs to a specific installation on the hard disk.

If the **License.dsp** file contains licenses of different versions for a dSPACE software product, the dSPACE software might generate error messages that the licenses are invalid. Make sure to use the correct license information and add only licenses of one version of a dSPACE product.

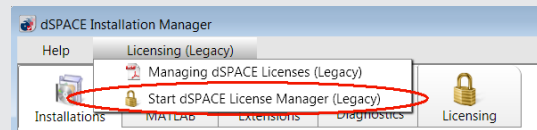
## Method

### To renew licenses in a specific local license file

- 1 From Start – dSPACE Installation Manager, select dSPACE License Manager (Legacy).

#### Tip

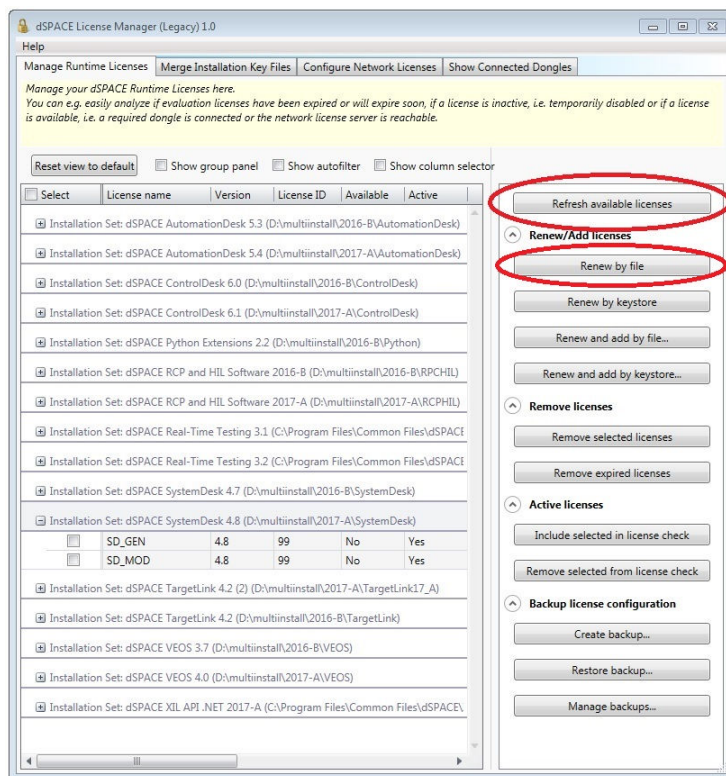
You also can start dSPACE License Manager (Legacy) via dSPACE Installation Manager as shown below:



dSPACE License Manager (Legacy) opens.

- 2 Click the Manage Runtime Licenses tab.

The tabbed page lists all the dSPACE installations on your host PC as shown below.



- 3 Click the Refresh available licenses button to update the information.
- 4 Select the installation from the list and expand it to see the license entries. The entries in the local `License.dsp` file that is associated to the selected installation on your PC are displayed.
- 5 Click the Renew by file button. A Windows standard Open dialog opens.

- 6 In the Open dialog, specify the path of the new **License.dsp** file.

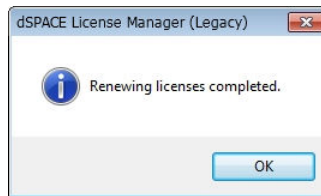
**Tip**

You can also use the ZIP archive containing the **License.dsp** file directly without unpacking it.

- 7 Click **Open**.

The licenses are copied from the new **License.dsp** file to the local **License.dsp** file which is associated to the selected installation.

The following dialog appears when the process has finished:



- 8 Click **OK**.
- 9 If the new **License.dsp** file also contains license information for dSPACE products in other Installation Sets, repeat steps 5 to 9 for all relevant dSPACE installations on your host PC.

---

**Result**

You renewed the licenses in the local license file which belongs to the selected installation.

---

**Next steps**

If you renew licenses, dSPACE License Manager (Legacy) automatically creates a license backup before adding the licenses. A backup contains a specific license configuration, which you can use for later restoration.

**Tip**

You can undo changes by restoring the license configuration of a previous backup. For instructions, refer to [How to Backup a Specific License Configuration \(Legacy\)](#) on page 32.



## How to Add New Licenses to a Local License File (Legacy)

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

### Objective

In special cases it is necessary to add new licenses to a local **License.dsp** file.

### Use scenarios for renewing and adding licenses

- If your dongle has been damaged and you need a replacement, dSPACE provides you with a new dongle with a different dSPACE License ID and new license information.  
This license information is supplied via e-mail in a ZIP archive and contains the same **Keys.dsp** and **License.dsp** files as the license information of your old (damaged) dongle but with new key codes for the new dongle. The **License.dsp** file from the new license information has to be added to the **License.dsp** file on your PC. The license codes for the damaged dongle can be deleted afterwards.
- If your demo license expired and you need a replacement.
- If you have mistakenly deleted the licenses from a local license file.

#### Note

Every installation set on your host PC contains its own local license files.

### Restrictions

#### Note

The dSPACE License Manager (Legacy) does not check the compatibility of the **Keys.dsp** and **License.dsp** files. It adds every license that is not in the local **License.dsp** file which belongs to a specific installation on the hard disk.

If the **License.dsp** file contains licenses of different versions for a dSPACE software product, the dSPACE software might generate error messages that the licenses are invalid. Make sure to use the correct license information and add only licenses of one version of a dSPACE product.

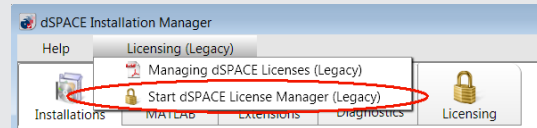
## Method

### To add licenses to a specific local license file

- 1 From Start – dSPACE Installation Manager, select dSPACE License Manager (Legacy).

#### Tip

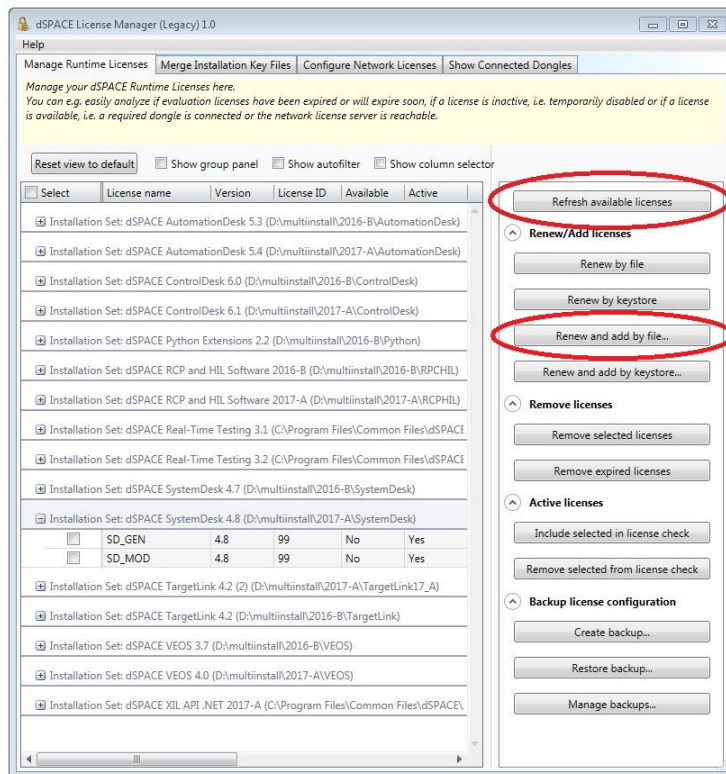
You also can start dSPACE License Manager (Legacy) via dSPACE Installation Manager as shown below:



dSPACE License Manager (Legacy) opens.

- 2 Click the Manage Runtime Licenses tab.

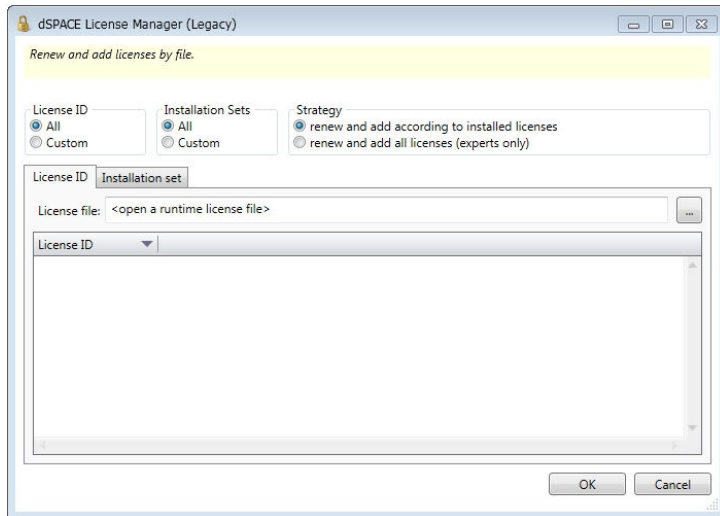
The tabbed page lists all the dSPACE installations on your host PC as shown below.




- 3 Click the Refresh available licenses button to update the information.
- 4 Select the installation from the list and expand it to see the license entries. The entries in the local License.dsp file belonging to the selected installation are displayed.

- 5 Click the Renew and add by file button.

The following dialog opens:



- 6 Click  to open a standard Windows select file dialog.
- 7 Select a ZIP or PIZ license file.
- 8 Click OK to close the select file dialog.
- 9 Select the appropriate command:

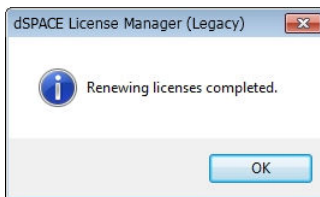
License ID	All	Custom
	Lets you select all dSPACE License IDs.	Lets you select one or more dSPACE license IDs.
Installation Sets	All	Custom
	Lets you select all installation sets.	Lets you select one or more installation sets.
Strategy	Renew and add according to installed licenses	Renew and add all licenses
	Lets you renew and add licenses for installation sets that already have a license in your local license file, regardless of the version.	Lets you renew and add all licenses contained in the input license file.

#### Note

With the renew and add all licenses option, all the licenses of the license file are added to the local license files. This takes several minutes, depending on the size of the input license file.

**10** Click OK to renew and add the licenses

The following dialog appears when the process has finished:



**11** Click OK.

---

**Result**

New licenses are added to the local license file which belongs to the selected installation.

---

**Next steps**

When you add new licenses, the dSPACE License Manager (Legacy) automatically creates a license backup before adding the licenses. A backup contains a specific license configuration which you can use for later restoration.

**Tip**

You can undo changes by restoring the license configuration of a previous backup. For instructions, refer to [How to Backup a Specific License Configuration \(Legacy\)](#) on page 32.

## How to Activate, Deactivate or Remove Licenses (Legacy)

---

**Validation****Note**

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

---

**Objective**

You can deactivate the licenses that belong to a specific dongle, or remove them from a local `License.dsp` file permanently.

Deactivated licenses must be reactivated before you can work with the corresponding dSPACE products again.

Licenses are active by default.

**Purpose of deactivating licenses**

If you have merged license information to install several dSPACE products on your PC, the local **License.dsp** file contains entries for different dongles.

Each time you start a license-protected action, the running dSPACE application checks the local **License.dsp** file for a valid license. This procedure takes some time, according to the number of licenses included in the local **License.dsp** file. You can shorten this procedure by deactivating the licenses for dongles that are not connected to the PC.

**Precondition**

Two or more dongles must be available in your license file.

**Tip**

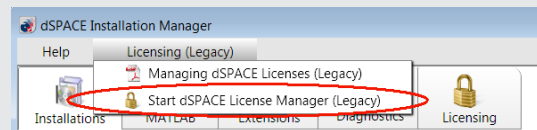
If you have only activated licenses for one dongle in your license file, the dSPACE License Manager (Legacy) does not let you deactivate or remove it.

**Method****To activate, deactivate or remove licenses in a specific local license file**

- 1 From Start – dSPACE Installation Manager, select dSPACE License Manager (Legacy).

**Tip**

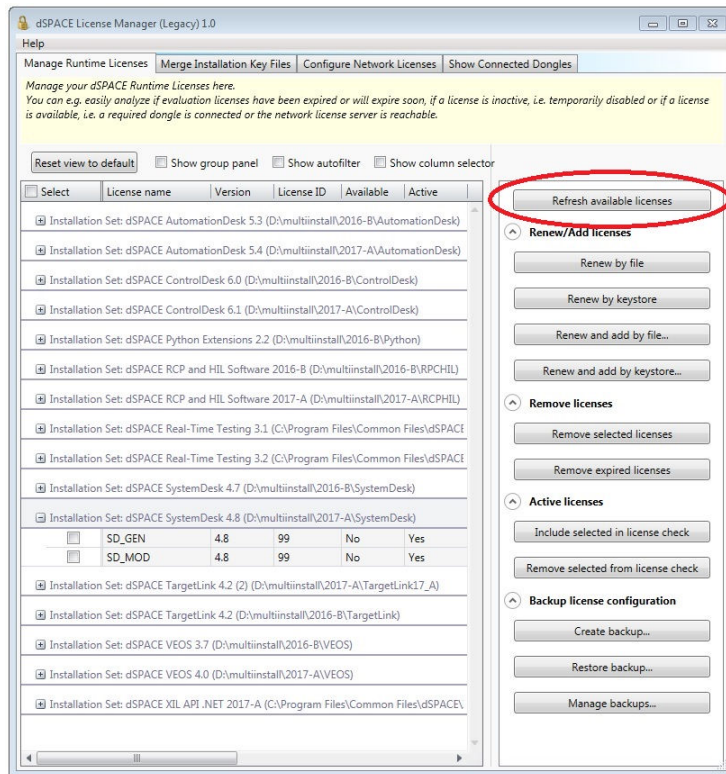
You also can start dSPACE License Manager (Legacy) via dSPACE Installation Manager as shown below:



dSPACE License Manager (Legacy) opens.

2 Click the Manage Runtime Licenses tab.

The tabbed page lists all the dSPACE installations on your host PC as shown below.

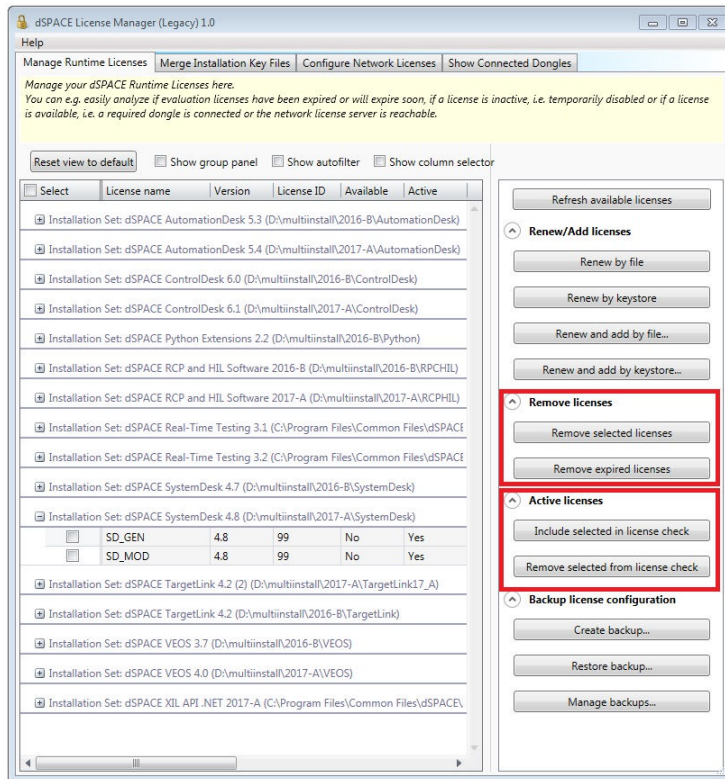


3 Click the Refresh available licenses button to update the information.

4 Select the installation from the list and expand it to see the license entries. The entries in the local License.dsp file that is associated to the selected installation on your PC are displayed.

5 Select the license(s) which you want to deactivate, activate or remove.

6 Click a button for the action you want to perform (see screenshot below):



- Active licenses - Include selected in license check to activate the selected license(s).
- Active licenses - Remove selected in license check to deactivate the selected license(s).
- Remove licenses - Remove selected licenses to remove the selected license(s).
- Remove licenses - Remove expired licenses to remove all expired licenses available in your local license file.

## Result

dSPACE License Manager (Legacy) carries out the changes.

## Next steps

You can create a license backup via the Backup license configuration – Create backup... button. A backup contains a specific license configuration, which you can use for later restoration. If you remove a license, dSPACE License Manager (Legacy) automatically creates a backup before you remove it.

### Tip

You can undo changes by restoring the license configuration of a previous backup. For instructions, refer to [How to Backup a Specific License Configuration \(Legacy\)](#) on page 32.

## Basics on License Backups (Legacy)

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

### Objective

You can back up a configuration of run-time licenses and restore a previous configuration to undo changes. You can also manage the configuration backups.

### Basics on license backups

A license backup allows you to restore a specific state of the license configuration. The License Manager (Legacy) automatically creates backups before you add/remove a license to/from the local license files.

You can also create your own backup. In this case other actions such as activating and deactivating licenses are stored with it.

The backup label contains the date and the time when it was created. You cannot change this label. You can add an annotation for the backup that will help you identify the backup.

You can also remove the license configuration backups.

For instructions, refer to

- [How to Backup a Specific License Configuration \(Legacy\)](#) on page 32
- [How to Restore a Specific License Configuration \(Legacy\)](#) on page 34
- [How to Remove a Specific License Configuration \(Legacy\)](#) on page 36

## How to Backup a Specific License Configuration (Legacy)

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).



**Objective**

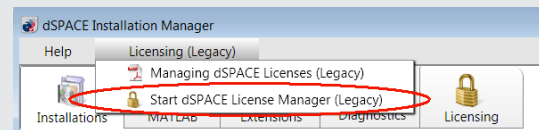
You can back up a configuration of run-time licenses. For basic information refer to [Basics on License Backups \(Legacy\)](#) on page 32.

**Method****To back up a license configuration**

- 1 From Start – dSPACE Installation Manager, select dSPACE License Manager (Legacy).

**Tip**

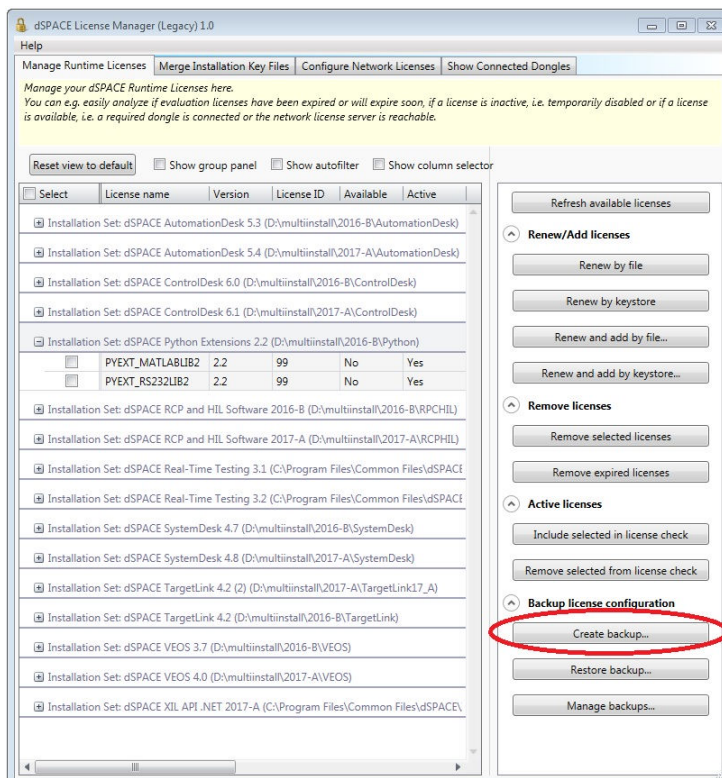
You also can start dSPACE License Manager (Legacy) via dSPACE Installation Manager as shown below:



dSPACE License Manager (Legacy) opens.

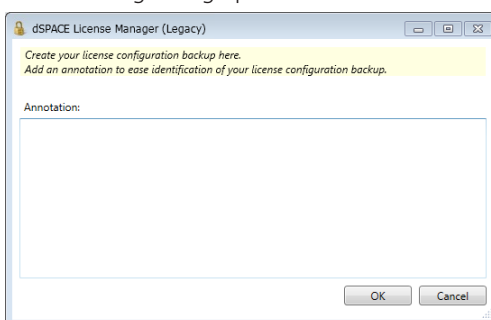
- 2 Click the Manage Runtime Licenses tab.

The tabbed page lists all the dSPACE installations on your host PC.



**3** Click Backup license configuration - Create backup....

The following dialog opens:



**4** In the Annotation text field, insert an annotation.

**5** Click OK to create the backup and close the dialog.

---

**Result**

You have created a license configuration backup.

---

**Next steps**

You can restore a license configuration. For instructions, refer to [How to Restore a Specific License Configuration \(Legacy\)](#) on page 34.

## How to Restore a Specific License Configuration (Legacy)

---

**Validation**

**Note**

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

---

**Objective**

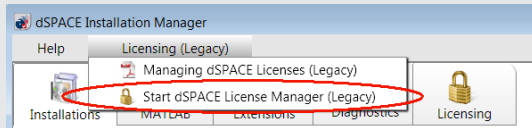
You can restore a configuration of run-time licenses. For basic information refer to [Basics on License Backups \(Legacy\)](#) on page 32.

**Method****To restore a specific license configuration**

- 1 From Start – dSPACE Installation Manager, select dSPACE License Manager (Legacy).

**Tip**

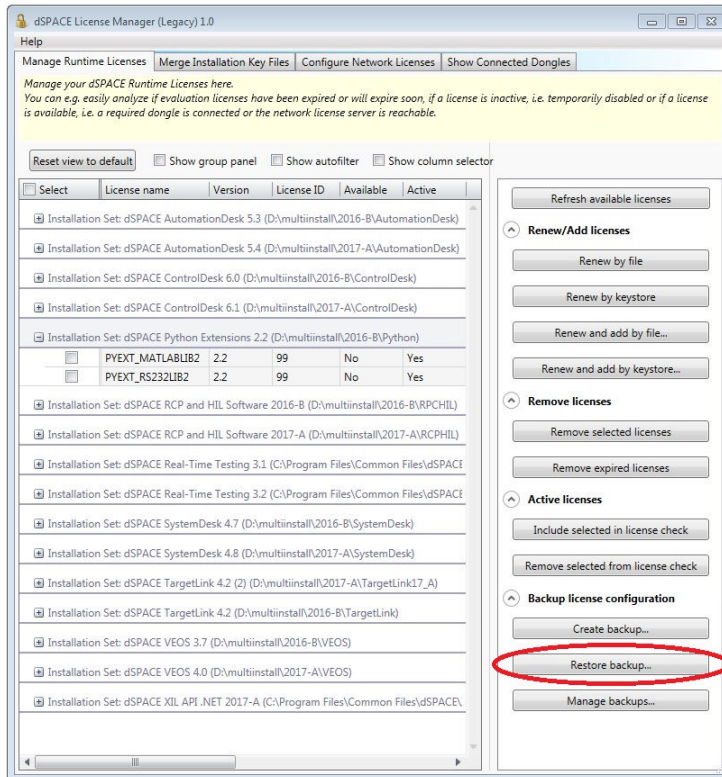
You also can start dSPACE License Manager (Legacy) via dSPACE Installation Manager as shown below:



dSPACE License Manager (Legacy) opens.

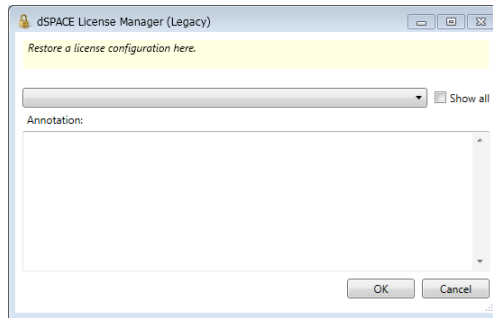
- 2 Click the Manage Runtime Licenses tab.

The tabbed page lists all the dSPACE installations on your host PC.

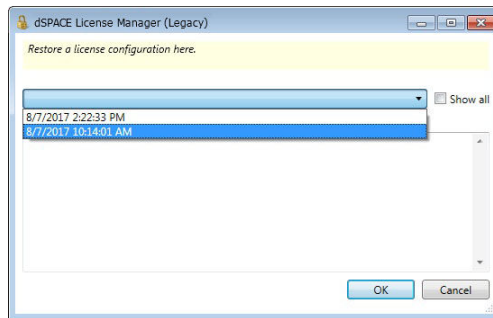


**3** Click Backup license configuration - Restore backup....

The following dialog opens:



**4** From the list, select a backup and click OK.



**Result**

You restored the license configuration from a specific backup.

## How to Remove a Specific License Configuration (Legacy)

**Validation**

**Note**

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

**Objective**

You can remove a configuration of run-time licenses. For basic information refer to [Basics on License Backups \(Legacy\)](#) on page 32.

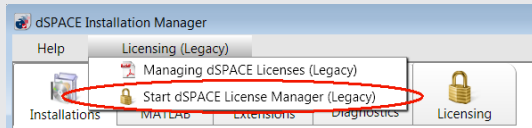
## Method

### To remove license configuration backups

- 1 From Start – dSPACE Installation Manager, select dSPACE License Manager (Legacy).

#### Tip

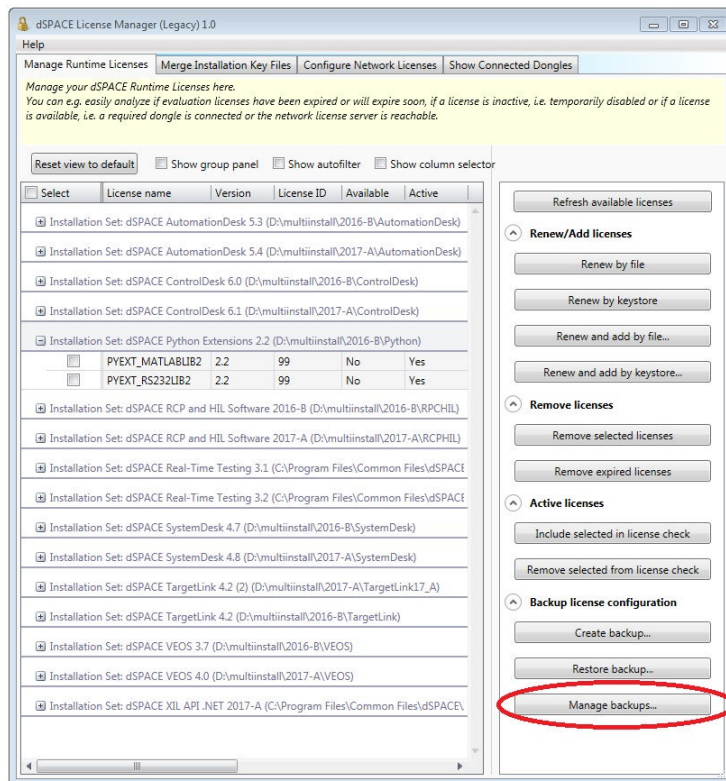
You also can start dSPACE License Manager (Legacy) via dSPACE Installation Manager as shown below:



dSPACE License Manager (Legacy) opens.

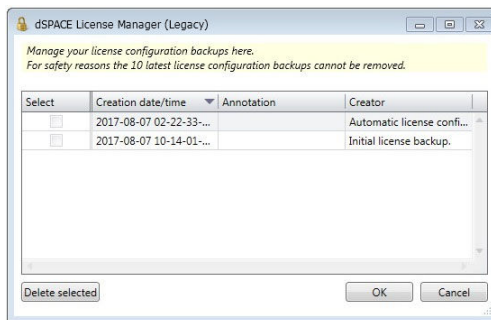
- 2 Click the Manage Runtime Licenses tab.

The tabbed page lists all the dSPACE installations on your host PC.



### 3 Click Backup license configuration - Manage backups....

The following dialog opens:



4 Select one or more license configurations backups. For safety reasons, you cannot remove the ten latest license configuration backups.

5 Click Delete selected to delete the selected license configuration backups.

#### Result

You have removed license configuration backups.

## How to Activate/Deactivate Licenses via Command Line Utility (Legacy)

#### Validation

##### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

#### Objective

The dSPACE License Manager (Legacy) provides the **IMLicUtil.exe** command line utility, to activate and deactivate run-time licenses (which are available in the local **License.dsp** files) as an alternative to activate/deactivate them via the user interface of the dSPACE License Manager (Legacy).

Deactivated licenses must be reactivated before you can work with the corresponding dSPACE products again. Licenses are active by default.

#### Discontinuation

##### Note

Due to technological changes regarding to installation and licensing, the **IMLicUtil.exe** command line utility will be discontinued in the future.

**Possible use scenarios**

You can use the command line utility in a batch file, for example, to easily activate and deactivate licenses which you have to activate or deactivate frequently. This can be useful in cases such as the following:

- Dongle licenses

If you have merged license information to install several dSPACE products on your PC, the local **License.dsp** files contain entries for different dongles. Each time you start a license-protected action, the running dSPACE application checks its local **License.dsp** files for a valid license. This procedure takes some time, depending on the number of licenses included in the local **License.dsp** files. You can shorten this procedure by deactivating the licenses for dongles that are not connected to the PC.

- Floating network license

Suppose you have purchased 20 licenses for the base version of ControlDesk (CDNG\_BASIC), but only 5 licenses for the Signal Editor Module (CDNG\_SIGNALEDITOR). Every time a user starts ControlDesk, the base license is blocked. The available module licenses are not blocked until the respective module is used. However, all licenses (also the module licenses) are released when ControlDesk is closed. Thus a user blocks the Signal Editor Module license when working with ControlDesk, even if he/she does not work with the module itself. If you deactivate the Signal Editor Module license in the local **License.dsp** file, the module license is released and can be used by another user.

**Accessing the IMLicUtil.exe command line utility**

The **IMLicUtil.exe** command line utility is located in the **%CommonProgramFiles%\dSPACE\InstallationManager\bin** folder of your dSPACE installation.

You can access this utility via the **Command Prompt for Legacy Tools** shortcut in the **Windows Start** menu.

**Commands and options of the IMLicUtil.exe command line utility for activating and deactivating**

The following commands and options are available for the related task:

Option	Purpose
-Command:activate	Activates the specified license.
-Command:deactivate	Deactivates the specified license.
-LicenseName:<license name>	Lets you specify the name of the license which you want to activate or deactivate.

Option	Purpose
<b>-LicenseVersion:</b> <license version>	Lets you specify the version of the license which you want to activate or deactivate. As an option, you can use * as a wildcard if you want to apply the command to all versions of the specified license. Example: <b>-LicenseVersion:*</b>
<b>-LicenseID:</b> <dongle identification number>	Lets you specify the identification number (dSPACE License ID) of the license. The number of a dongle license is also indicated on the dongle shell (WibuKey dongles) or on the dongle tag (CmDongles). CmDongles shipped with dSPACE Release 2017-B and later carry the serial number on the dongle tag instead of the License ID. As an option, you can use * as a wildcard if you want to apply the command to all dSPACE installations on your host PC. Example: <b>-LicenseID:*</b>
<b>-InstallationSet:</b> <absolute path to installation folder>	Lets you specify the dSPACE installation with the local <b>license.dsp</b> file containing information on the specified licenses. As an option, you can use * as a wildcard if you want to apply the command to all dSPACE installations on your host PC. Example: <b>-InstallationSet:*</b>
<b>-Version</b>	Lets you display the version number of the <b>IMLicUtil.exe</b> command line utility.
<b>-Help</b>	Lets you display the help information on the <b>IMLicUtil.exe</b> command line utility.

When you use long path and file names with spaces on the command line, enclose the names in double quotation marks. This indicates that spaces within the quotation marks are not command line delimiters.

If you type the options incorrectly, e.g., only in upper or lower case, or leave them out, the help information for the command line tool is displayed.

**Example** To display the **IMLicUtil.exe** help, enter the following string in the Command Prompt window (via the Command Prompt for Legacy Tools shortcut):

```
IMLicUtil -Help
```

---

<b>Precondition</b>	You do not need administrator rights to use the <b>IMLicUtil.exe</b> command line utility.
---------------------	--

---

<b>Method</b>	<b>To activate/deactivate licenses via command line utility</b> <b>1</b> From Start – dSPACE Installation Manager, select Command Prompt for Legacy Tools. A Command Prompt window opens.
---------------	---



2 Type in the following and press **Enter**:

```
IMLicUtil -Command:deactivate  
-LicenseName:<license name> -LicenseVersion:<license version>  
-LicenseID:<dongle identification number>  
-InstallationSet:<absolute path to installation folder>
```

**Tip**

If the specified license name is unique on your host PC, you can use the optional \* as a wildcard for the following options:

- -LicenseVersion:<license version>
- -LicenseID:<dongle identification number>
- -InstallationSet:<absolute path to installation folder>

---

**Result**

The `IMLicUtil.exe` command line utility returns a 0 if the activation/deactivation has been performed and no error occurred. Any other return value indicates an error.



# Merging License Files (Legacy)

## Where to go from here

## Information in this section

Basics on Merging License Information (Legacy).....	43
How to Merge License Files (Legacy).....	47
How to Modify the dSPACE Installation with Merged Files (Legacy).....	52
How to Merge License Files via Command Line Utility (Legacy).....	53

## Basics on Merging License Information (Legacy)

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

### Use scenarios

There are three cases where the license files merge feature of the dSPACE License Manager (Legacy) is useful:

- You can merge license files for different dongles that belong to the same DVD (dSPACE Release) in *master license files*. With these master license files, you can install the dSPACE software on several PCs without having to know the dSPACE License ID of the dongle that is actually connected to a particular PC.

- You can install two or more software products of the same dSPACE release at once via dSPACE Master Setup.
- Before you can install a new license-protected dSPACE product (that comes with separate license files) on an existing dSPACE installation, you must merge the license files of the new product and the license files of the existing installation.

### Note

Merging license files for this use scenario is useful only for installations from dSPACE Releases 7.1 and earlier. As of dSPACE Release 7.2, the setup programs do not require license information on the existing software products to avoid uninstalling them automatically.

## Restriction

### Note

When used for merging license files, the dSPACE Installation does not check for version compatibility of `License.dsp` or `Keys.dsp` files. Make sure that only license codes for the same software version are merged or added to an existing `License.dsp` file on the hard disk.

## Simplifying dongle license handling

You can merge license files for different dongles that belong to the same DVD (dSPACE Release) in *master license files* by using the merge function. With these master license files, you can install the dSPACE software on several PCs without having to know the dSPACE License ID of the dongle that is actually used with a particular PC.

## Installing several software products via dSPACE Master Setup in one run

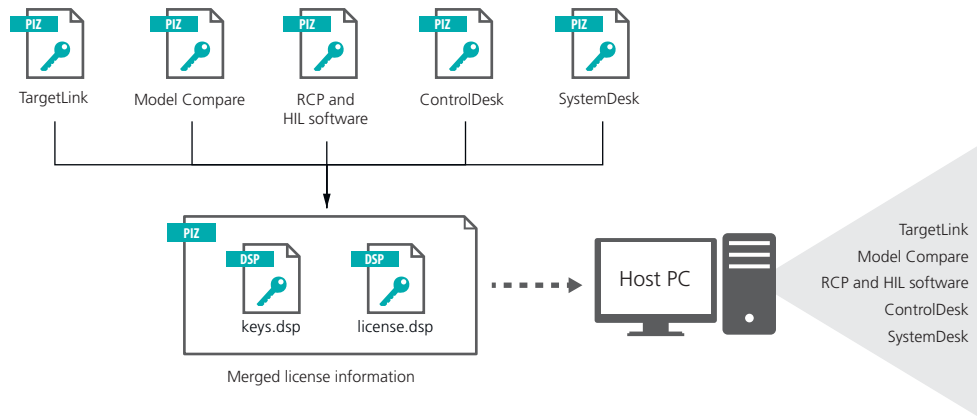
To install two or more dSPACE software products with the dSPACE Master Setup in one run, the setup requires license information containing all the `Keys.dsp` and `License.dsp` files of the software you want to install in merged files. The dSPACE Master Setup then knows which dSPACE software is available for installation and can set the correct installation order.

If the license information for a dSPACE software product is missing, the dSPACE Master Setup will not install the product. It is then not listed in the **Start Copying Files** dialog of the dSPACE Master Setup during installation. If a dSPACE software you want to install is missing from this list, exit the dSPACE Master Setup and check the license information for completeness.

### Tip

If you place an order for all the dSPACE software you want to install in one run, you already receive the merged license files.

The illustration below shows the principle of merging license files for an installation via dSPACE Master Setup:



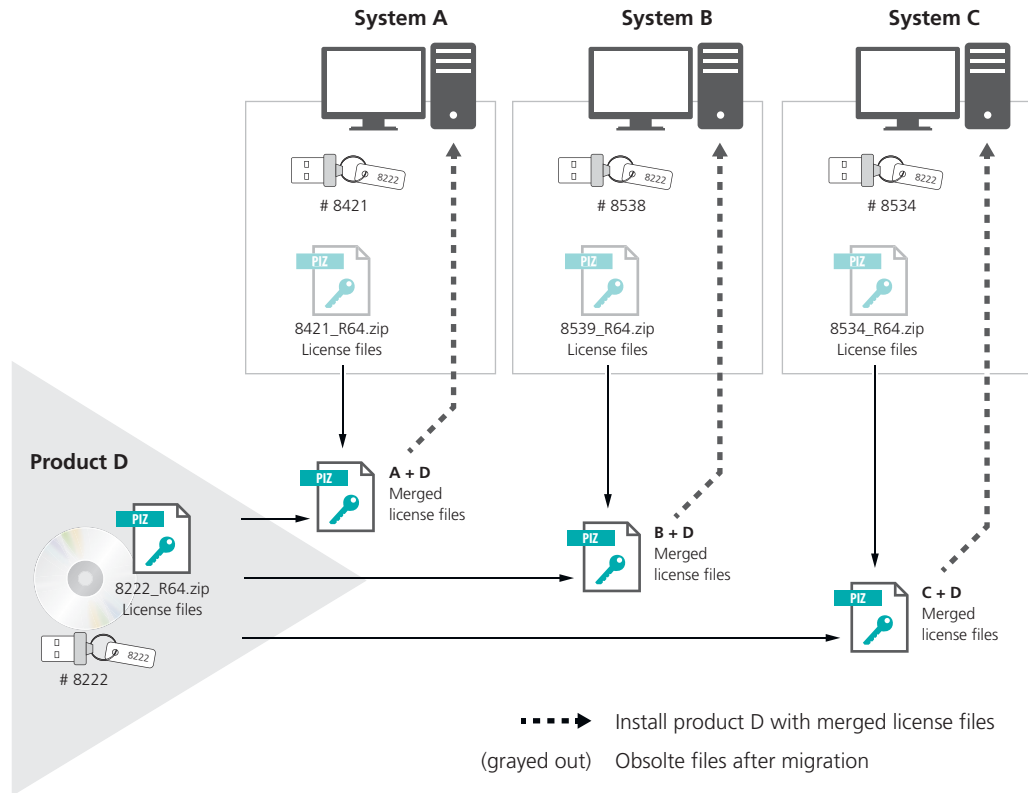
## Adding a new product

### Note

Merging license files for this use scenario is useful only for installations from dSPACE Releases 7.1 and earlier. As of dSPACE Release 7.2, the setup programs do not require license information on the existing software products to avoid uninstalling them automatically.

Suppose you have several dSPACE systems (A, B, C) each with an installed, licensed version of AutomationDesk. You also have one additional software license for development tools like RTI and compilers, maybe for a completely different dongle number (D). Let us assume that you want to use the development tools on any one of the AutomationDesk systems, but only on one system at a time. To do so, you must merge license files (A, D), (B, D), (C, D) before adding software products licensed on (D). With the merged license files, components from (D) can be installed for each of the three systems, but they will run only on the system where dongle (D) is presently connected.

The illustration below describes this situation.



### Tip

Use the dSPACE Maintenance Setup to install additional products. Refer to the *Software Installation and Management Guide* of the related dSPACE Release.

**Background** If you install software using specific license files in a folder where software of the same release has already been installed using different license files, any software components that are not also covered by the new set of license files are uninstalled automatically.

Suppose you have installed software with license files allowing you to install products A, B, C. Now you install software with other license files allowing the installation of products A, D, E. After the second installation, only products A, D, E are left on the hard disk. Products B, C are uninstalled. Repeating the installation with the first license files reinstalls products A, B, C on the hard disk, but D, E are removed. This problem occurs regardless of whether you have license files for the same or different dongle numbers.

### Instructions

For detailed instructions, refer to [How to Merge License Files \(Legacy\)](#) on page 47.

## How to Merge License Files (Legacy)

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

### Objective

You can merge license files for different dSPACE software products to make merged **Keys.dsp** and **License.dsp** files by using the merge function of dSPACE License Manager (Legacy).

### ZIP files

You receive the **Keys.dsp** and **License.dsp** files via e-mail in a ZIP archive.

#### Tip

- Before sending the license files via e-mail, dSPACE creates a ZIP archive which contains the license files and usually changes the file name extension of the ZIP archive to PIZ to prevent them being filtered by your e-mail server.
- The merge function of dSPACE License Manager (Legacy) can handle ZIP files and PIZ files without unpacking them first.

### Restrictions

The restriction is valid for:

- As of dSPACE Release 7.1: Only software products of the RCP and HIL software package
- dSPACE Release 6.6 and earlier: All software products

The dSPACE Master Setup does not accept merged **Keys.dsp** and **License.dsp** files containing different versions of the same dSPACE software product.

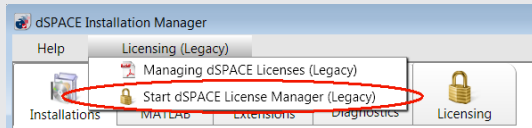
## Method

### To merge license files

- 1 From Start – dSPACE Installation Manager, select dSPACE License Manager (Legacy).

#### Tip

You also can start dSPACE License Manager (Legacy) via dSPACE Installation Manager as shown below:

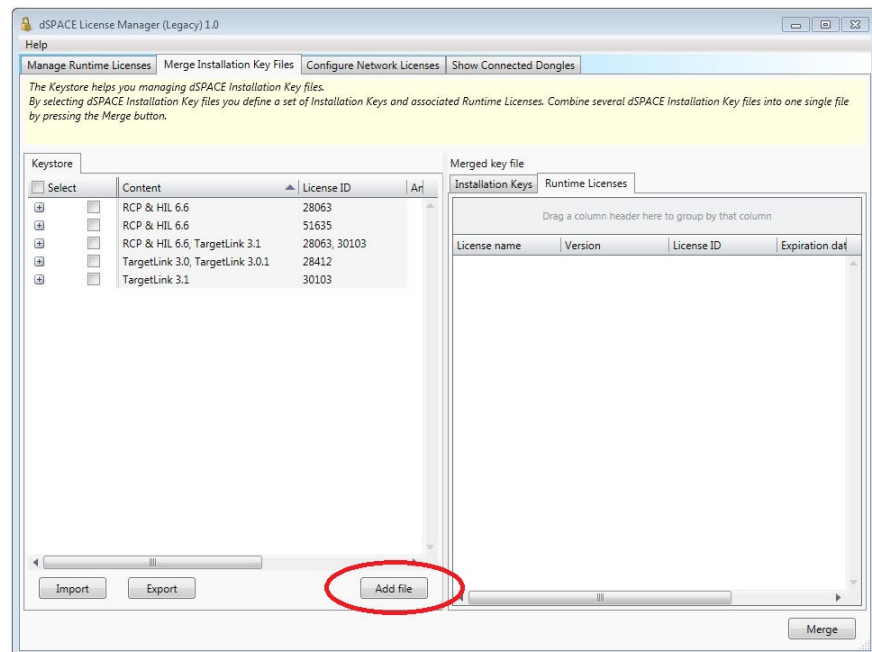


dSPACE License Manager (Legacy) opens.

#### Tip

If dSPACE License Manager (Legacy) is not installed on your host PC, install dSPACE Installation Manager 5.0 or later from <http://www.dspace.com/go/imupdate>.

- 2 Click the Merge Installation Key Files tab.





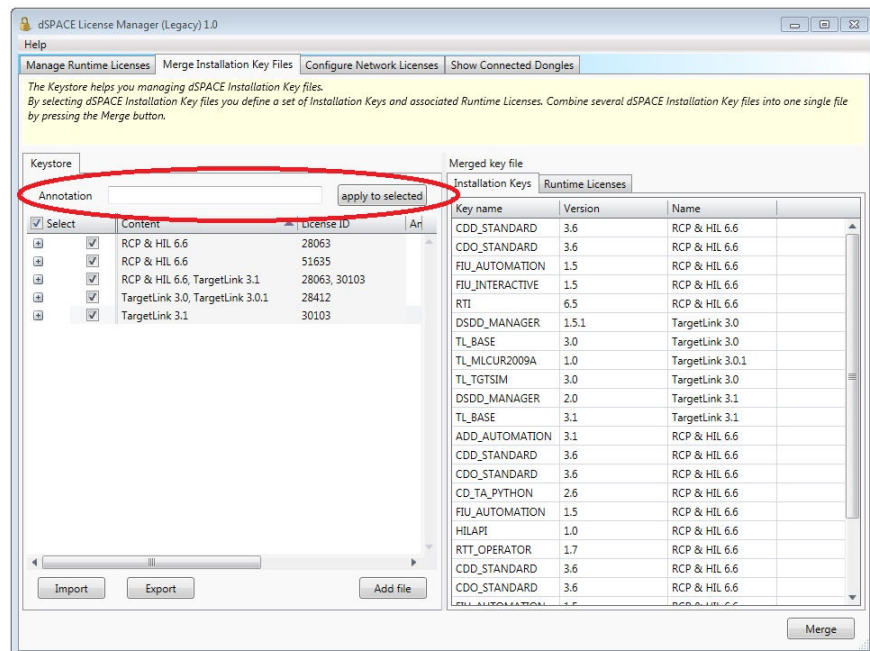
- Click Add file and specify the path of the first ZIP file in the Windows Open dialog.

### Tip

You also can select and add several files at once if they are available on the same path.

- Click Open.

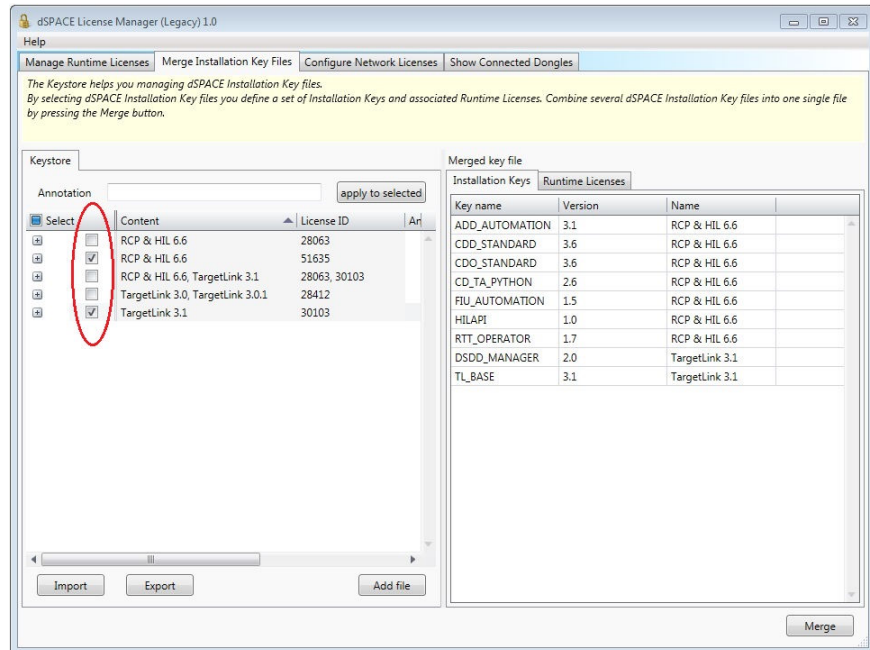
The added ZIP file is displayed as shown below. If selected, you can enter your own comments in the Annotations column, for example, for easier identification of the files.



- Repeat the last two steps for all the ZIP files you want to add and display in dSPACE License Manager (Legacy), and to merge.

The settings on the Merge Installation Key Files page are stored in the dSPACE License Manager (Legacy) and are available after you close and restart the Manager.

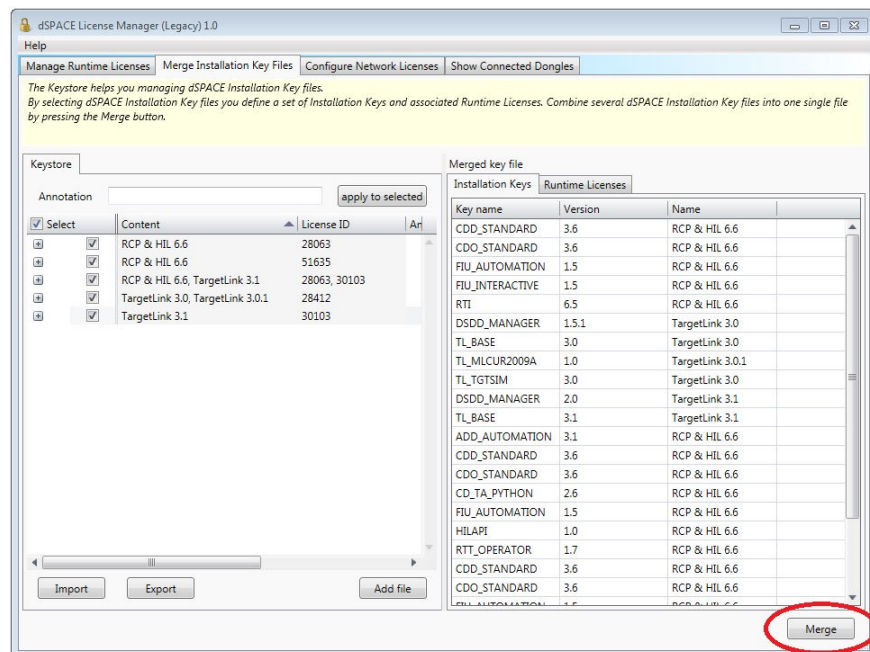
## 6 Select the checkboxes of the ZIP and/or PLZ files which you want to merge.



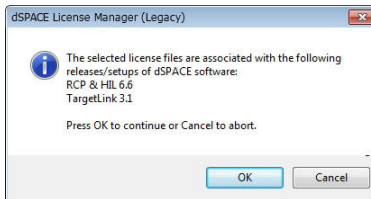
The following entries of the files contained in the selected ZIP archives are displayed:

- The entries of all the **Keys.dsp** files on the Installation Keys page.
- The entries of all the **License.dsp** files on the Runtime Licenses page.

## 7 Click Merge.



The following dialog opens:



- 8 Click OK to continue.

A standard Windows Save As dialog opens.

- 9 Specify the name and the path of the ZIP archive with the merged **Keys.dsp** and **License.dsp** files, and click Save.

#### Note

Do not change the file names of the merged files (**Keys.dsp** and **License.dsp**) in the ZIP archive.

- 10 Only valid for dSPACE Release 7.1 and earlier: If you received a **License.dat** file from dSPACE, you must copy it manually to the folder where you saved the merged **Keys.dsp** and **License.dsp** files.

#### Tip

As of dSPACE Release 7.2, the **License.dat** file is required only for installing the dSPACE License Server but not for installing the dSPACE software on the dSPACE License Clients.

## Result

The **Keys.dsp** and **License.dsp** files of the selected ZIP files are merged in one **Keys.dsp** file and one **License.dsp** file (available in a new ZIP archive).

#### Tip

The files added on the Keystore page are stored in the dSPACE Installation Manager and are available after you close and restart the Installation Manager.

In addition, you can export the contents of the Keystore page to a file (DSK file), for example, to use it on other PCs.

## Next steps

After you have merged the **Keys.dsp** and **License.dsp** files, you can

- Modify the installation on your PC or other PCs with the merged **Keys.dsp** file. Refer to [How to Modify the dSPACE Installation with Merged Files \(Legacy\)](#) on page 52.
- Start a new dSPACE installation on several PCs without having to know the dSPACE License ID of the dongle that is connected to a particular PC.

- Install two or more software products from dSPACE Release 2017-A and earlier in different free folders at once.

## How to Modify the dSPACE Installation with Merged Files (Legacy)

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

### Objective

After you have merged the license files you can modify your installation with the merged **Keys.dsp** file. You have to use dSPACE Maintenance Setup for this.

### Preconditions

- You have administrator rights.
- The merged license files must be unpacked. The dSPACE setups cannot handle ZIP files and PIZ files.

### Method

#### To modify the dSPACE installation with merged files

- 1 From **Start – dSPACE <Product x.y>**, select **dSPACE Maintenance Setup (<Product x.y>)**.

<Product x.y> is a placeholder for the software and its version, since your host PC can have multiple installations and multiple entries in the **Start** menu. The term *dSPACE Maintenance Setup* is used for all product-specific versions, for example, **dSPACE Maintenance Setup (TargetLink 4.0)**.

- 2 Select the **Modify Installation** option, and click **Next**.
- 3 In the **License Files Location** dialog, specify the folder which contains the merged license files, and click **Next**.

Now you can specify the dSPACE products that you want to install. You can select any products specified in the merged **Keys.dsp** file.

- 4 Follow the instructions of the setup program.
- 5 When prompted, reboot your PC.

### Result

The dSPACE installation is modified according to your selections.

## How to Merge License Files via Command Line Utility (Legacy)

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

### Objective

The dSPACE License Manager (Legacy) provides the **IMLicUtil.exe** command line utility, for example, which lets you perform tasks like merging license ZIP archives to one master license ZIP archive.

### Possible use scenario

For the different use scenarios where merging license files is useful, refer to [Basics on Merging License Information \(Legacy\)](#) on page 43.

### Accessing the IMLicUtil.exe command line utility

The **IMLicUtil.exe** command line utility is located in the **%CommonProgramFiles%\dSPACE\InstallationManager\bin** folder of your dSPACE installation.

You can access this utility via the **Command Prompt for Legacy Tools** shortcut in the Windows Start menu.

### Commands and options of the IMLicUtil.exe command line utility for merging license files

The following commands and options are available for the related task:

Option	Purpose
<b>-Command:mergeLicenseFiles</b>	Merges all license ZIP archives that reside in the specified folder to one master ZIP archive.
<b>-LicenseFileSourceDir:&lt;folder path&gt;</b>	<p>Lets you specify the full path of the folder containing the ZIP archives to be merged.</p> <p>The source folder must fulfill the following conditions:</p> <ul style="list-style-type: none"> <li>▪ Merging applies to all ZIP and PIZ files that reside in the specified folder. Subfolders and their files are not considered for merging.</li> <li>▪ The source ZIP archives must contain only one <b>license.dsp</b> and only one <b>keys.dsp</b> file.</li> <li>▪ The source folder itself must not contain a <b>license.dsp</b> file.</li> </ul> <p>If the conditions are not met, merging is stopped and an error message is displayed.</p>

Option	Purpose
<code>-LicenseFileMergeResult:&lt;file path&gt;</code>	Lets you specify the name and the full path of the ZIP or PIZ file you want to create to store the merged license information. The following rules must comply with the target file: <ul style="list-style-type: none"> <li>▪ The target file must be a ZIP or a PIZ file. Other file extensions are not allowed.</li> <li>▪ The target file must not exist in the specified folder.</li> </ul> If the rules are not met, merging is stopped and an error message is displayed.
<code>-Version</code>	Lets you display the version number of the <b>IMLicUtil.exe</b> command line utility.
<code>-Help</code>	Lets you display the help information on the <b>IMLicUtil.exe</b> command line utility.

When you use long path and file names with spaces on the command line, enclose the names in double quotation marks. This indicates that spaces within the quotation marks are not command line delimiters.

If you type the options incorrectly, e.g., only in upper or lower case, the help information for the command line tool is displayed.

**Example** To display the **IMLicUtil.exe** help, enter the following string in the Command Prompt window (via the Command Prompt for Legacy Tools shortcut):

```
IMLicUtil -Help
```

---

<b>Preconditions</b>	You do not need administrator rights to use the <b>IMLicUtil.exe</b> command line utility.
----------------------	--

---

<b>Method</b>	<p><b>To merge license files via command line utility</b></p> <ol style="list-style-type: none"> <li>1 From Start – dSPACE Installation Manager, select Command Prompt for Legacy Tools. A Command Prompt window opens.</li> <li>2 Type in the following (all on one line) and press <b>Enter</b>:  <pre>IMLicUtil -Command:mergeLicenseFiles -LicenseFileSourceDir:d\myfolder -LicenseFileMergeResult:d\target\myMerge.piz</pre> </li> </ol>
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<b>Result</b>	<p>The master license ZIP archive is created with the specified name in the specified folder.</p> <p>The <b>Keys.dsp</b> and <b>License.dsp</b> files of the source license ZIP archive (ZIP or PIZ file) are merged in one <b>Keys.dsp</b> file and one <b>License.dsp</b> file (available in the specified target ZIP archive (ZIP or PIZ file).</p> <p>You can now use the created archive (ZIP or PIZ) for installation purposes, for example, to install a dSPACE software product on multiple host PCs.</p>
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# Specifics on Using Floating Network Licenses (Legacy)

Validation

Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

Objective

If you purchased floating network licenses, one PC in the network has to be configured as the *dSPACE License Server*.  
  
The PCs on which you want to run the dSPACE software (*dSPACE License Clients*) need to be connected to the dSPACE License Server via TCP/IP.

Where to go from here

Information in this section

<a href="#">Setting Up the dSPACE License Server (Legacy)</a> .....	57
If you purchased floating network licenses for dSPACE software, you have to install and configure one of the networked PCs as the <i>dSPACE License Server</i> .	
<a href="#">Connecting to the dSPACE License Server (Legacy)</a> .....	64
You have to adapt the settings of your dSPACE License Client to the address of the dSPACE License Server to direct the client to use the server.	
<a href="#">License Behavior (Legacy)</a> .....	69

[Obtaining Permanent Floating Network Licenses \(Legacy\).....](#) 74

When you purchase floating network licenses and dSPACE does not know the MAC address of the PC on which you want to run the dSPACE License Server, you first receive licenses that are valid for only 4 weeks. To obtain permanent licenses, you need to provide dSPACE information about your system.

[Migrating to Floating Network Licenses \(Legacy\).....](#) 78

You can migrate from dongle licenses to floating network licenses.



# Setting Up the dSPACE License Server (Legacy)

**Objective** If you purchased floating network licenses for dSPACE software, you have to install and configure one of the networked PCs as the *dSPACE License Server*.

**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. Thus this is recommended for experienced network administrators only.

## Where to go from here

## Information in this section

<a href="#">FLEXnet Publisher Software (Legacy).....</a>	<a href="#">57</a>
dSPACE uses FLEXnet Publisher software to provide suitable license management for floating network licenses.	
<a href="#">Requirements and dSPACE License Server Settings (Legacy).....</a>	<a href="#">58</a>
The dSPACE License Server must meet some requirements and you must specify how it is started.	
<a href="#">How to Install and Configure the dSPACE License Server (Legacy).....</a>	<a href="#">60</a>
<a href="#">How to Update the License.dat File on the dSPACE License Server (Legacy).....</a>	<a href="#">62</a>
You must modify floating network licenses to update the License Server.	

## FLEXnet Publisher Software (Legacy)

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

**Objective** To provide suitable license management for floating network licenses, dSPACE uses *FLEXnet Publisher*, a product of Flexera Software Inc. This lets you install and

configure the dSPACE License Server providing the available dSPACE licenses for the connected dSPACE License Clients.

Disc 1 of the dSPACE DVD set of Release 2017-A and earlier provides the entire FLEXnet Publisher software required by the dSPACE License Client(s) and the dSPACE License Server.

---

### Installation of the FLEXnet Publisher software

The FLEXnet Publisher software required by the *dSPACE License Client(s)* is installed automatically during installation of the dSPACE software.

The FLEXnet Publisher software required by the *dSPACE License Server* has to be installed separately: for instructions, see [How to Install and Configure the dSPACE License Server \(Legacy\)](#) on page 60.

---

### Viewing and changing the license status

The FLEXnet Publisher software *LMTOOLS* can be used to start, stop and configure the dSPACE License Server, and to get system information including host IDs, the server status and the number of currently used licenses.

#### Tip

For information and instructions on using FLEXnet Publisher, refer to the *FLEXnet License Administration Guide*. To access it, select

- On the dSPACE License Server: From the Start – All Programs – dSPACE License Server menu, select FLEXnet Licensing End User Guide.
- Or open the `Tools\LicenseServer\fnp_LicAdmin.pdf` file on Disc 1 of the DVD set of dSPACE Release 2017-A and earlier.

## Requirements and dSPACE License Server Settings (Legacy)

---

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

---

### Objective

The dSPACE License Server must meet some requirements and you must specify how to start it in the dSPACE License Server settings.

## Requirements

- The operating system of the dSPACE License Server must be one of the following:
  - Windows Vista Business, Ultimate, or Enterprise (64 bit version) with the latest Service Pack
  - Windows 7 Professional, Ultimate, or Enterprise (64-bit version) with the latest Service Pack
  - Windows Server 2008 R2
  - Windows Server 2012, Windows Server 2012 R2

### Note

The dSPACE License Server does not support non-Windows operating systems.

- The version of the FLEXnet Publisher software installed on the dSPACE License Server must be compatible with the version installed on the dSPACE License Clients. As the FLEXnet Publisher software on the dSPACE License Server is downward compatible, you should always run the License Server that comes with the latest dSPACE Release.

You can download the most recent version of the dSPACE License Server from <http://www.dspace.com/go/licserv>.

## dSPACE License Server settings

You have to specify how to start the dSPACE License Server by installing it either as a service or as an application.

**dSPACE License Server installed as a service** In this case, the server can provide licenses for the connected dSPACE License Clients even if the dSPACE license administrator is currently not logged on. The server PC simply needs to be running for this purpose. The license server installation configures the PC to automatically start the dSPACE License Server upon reboot.

In this configuration each dSPACE License Client can deactivate or delete all licenses available in the network using the FLEXnet Publisher software *LMTOOLS*.

**dSPACE License Server installed as an application** In this case, the server can provide licenses only if the dSPACE license administrator is currently logged on, and if the dSPACE License Server application is running. The license server installation configures the PC to automatically start the dSPACE License Server application when the license administrator logs on.

When specifying the installation as an application, you can disable the “remote shutdown” and the “manual removal of license” functions. Disabling these functions prevents dSPACE License Clients activating or deleting licenses available in the network.

## How to Install and Configure the dSPACE License Server (Legacy)

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

### Objective

If you purchased floating network licenses for dSPACE software, you have to install and configure one of the networked PCs as the dSPACE License Server.

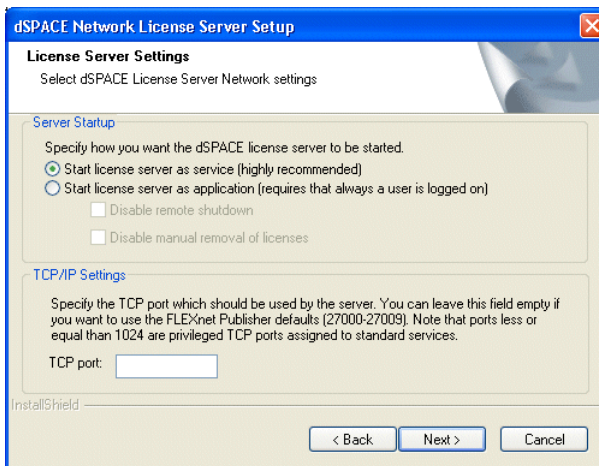
### Precondition

**Unpacking received license files** Before sending the license files via e-mail, dSPACE creates a ZIP archive which contains the license files and changes the file name extension of the ZIP archive to avoid firewall problems. When you receive the license files, you have to change the file name extension from PIZ to ZIP. Each ZIP archive contains two or three files which have to be unpacked before installing the software. Save all these files to one folder which you specify during installation.

### Method

#### To install and configure the dSPACE License Server

- 1 Insert Disc 1 of the dSPACE DVD set of dSPACE Release 2017-A or earlier into the DVD drive.
- 2 Choose the DVD drive, and run `Tools\LicenseServer\LicServer_Setup.exe`
- 3 Follow the instructions given by the installation program.
- 4 When prompted, specify the installation path for the dSPACE License Server software. Ensure that the specified folder does not already contain an installation of other FLEXnet Publisher software.
- 5 Specify the dSPACE License Server installation: it can be installed either as a service or as an application. By default, the server is installed as a service.



If you install the dSPACE License Server as an application you can disable/enable:

- The “remote shutdown” function: This is the ability of every dSPACE License Client to deactivate all licenses available in the network using FLEXnet Publisher software *LMTOOLS*.
- The “manual removal of license” function: This is the ability of every dSPACE License Client to remove all licenses available in the network using FLEXnet Publisher software *LMTOOLS*.

- 6 Specify the TCP/IP port to be used for communication with the connected dSPACE License Clients.

#### Note

If you leave the TCP/IP port edit field empty, FLEXnet Publisher automatically determines a free port in the range 27 000 ... 27 009. In this case, this edit field must also be left empty during installation of the dSPACE License Clients.

If there is a firewall between the server PC and the client PCs, make sure that the relevant TCP/IP port is not blocked.

- 7 When prompted, remove the dSPACE DVD.
- 8 Only if you install the dSPACE License Server as an application:
  - Reboot your operating system.
  - Log on as the same user with administrator rights directly after reboot. This allows the system to complete the installation correctly.

## How to Update the License.dat File on the dSPACE License Server (Legacy)

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

### Objective

Every time you receive a new **License.dat** file with floating network licenses from dSPACE, you need to update the **License.dat** file on the *dSPACE License Server*.

#### NOTICE

Do not update the **License.dat** files on the **dSPACE License Clients** with the new **License.dat** file.

### Use scenario

You will receive a new **License.dat** file, for example:

- With new products
- When the number of licenses changes
- When the server's MAC address changes
- When you obtain permanent floating network licenses

### Method

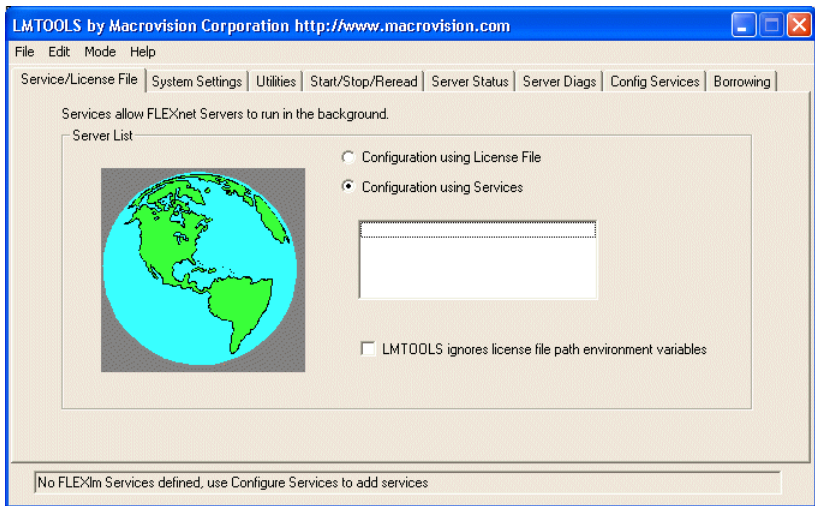
#### To update the License.dat file

- 1 On the dSPACE License Server, open Windows Explorer and change to the folder where you installed the dSPACE License Server software.
- 2 Replace the old **License.dat** file by the new one provided by dSPACE.

#### Note

You should also update the **License.dat** file in the license files folder.

- 3 From the Start menu, select Programs – dSPACE Tools – dSPACE License Administration – FLEXlm LMTOOLS. The LMTOOLS dialog opens.



- 4 On the Service/License File page, choose the
- Configuration using License File option if the dSPACE License Server was started as an application, and click Browse to specify the location of the `License.dat` file.
- Or choose the
- Configuration using Services option if the dSPACE License Server was started as a service, and mark dSPACE License Server in the list below the option.
- 5 On the Start/Stop/Reread page, click Reread License File.

## Result

The new `License.dat` file is reread and its licenses can be used immediately.

## Connecting to the dSPACE License Server (Legacy)

### How to Set Up a Connection Between Client and Server (Legacy)

---

#### Validation

##### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

---

#### Objective

You have to adapt the settings of your *dSPACE License Client* to the address of the *dSPACE License Server* to direct the client to use the server.

If this was not already done during initial installation of the dSPACE software, you have to use the dSPACE Installation Manager for it.

---

#### Scenarios for setting up a connection

The following cases require adaptation of the *dSPACE License Client* settings to instruct the clients to use the server:

- Subsequent installation of the *dSPACE License Server*
- Changes of server name or IP address
- Migrating from dongle licenses to floating network licenses

---

#### Tasks for adapting client settings

The adaptation of the client settings involves the following tasks:

- Hosting the server if it was installed after installation of the clients.
- Rehosting the server if it was moved to another PC or if the name or IP address of the server PC changed.
- Redirecting the clients to use the new server if it was moved to another PC or if the name or IP address of the server PC changed.

---

#### Preconditions

- The dSPACE License Server must be installed. Refer to [Setting Up the dSPACE License Server \(Legacy\)](#) on page 57.
- Floating network licenses are available and the floating network license support for the installation on the *dSPACE License Client* is installed. For instructions, refer to [How to Add Floating Network License Support on Clients \(Legacy\)](#) on page 78.

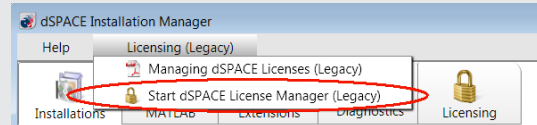


**Method****To set up a connection between client and server****1** On a *dSPACE License Client*:

From Start – dSPACE Installation Manager, select dSPACE License Manager (Legacy).

**Tip**

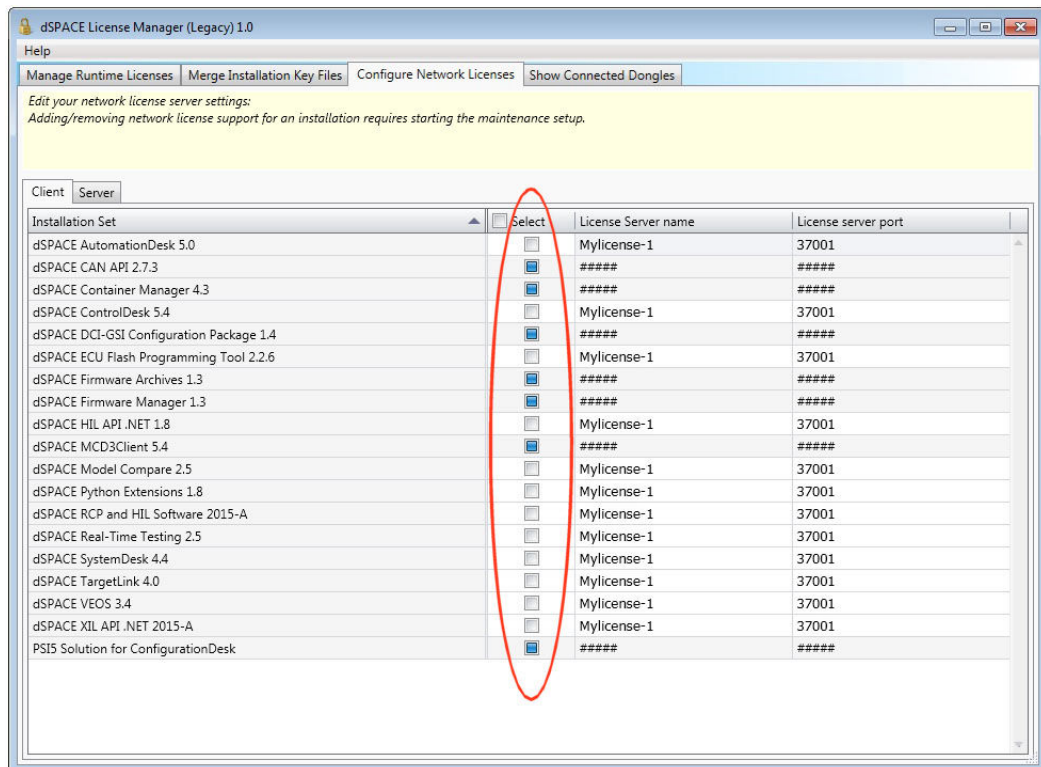
You also can start dSPACE License Manager (Legacy) via dSPACE Installation Manager as shown below:



dSPACE License Manager (Legacy) opens.

**2** Click the Configure Network Licenses tab.

On the Client page, all dSPACE installations available on your host PC are listed as shown below.

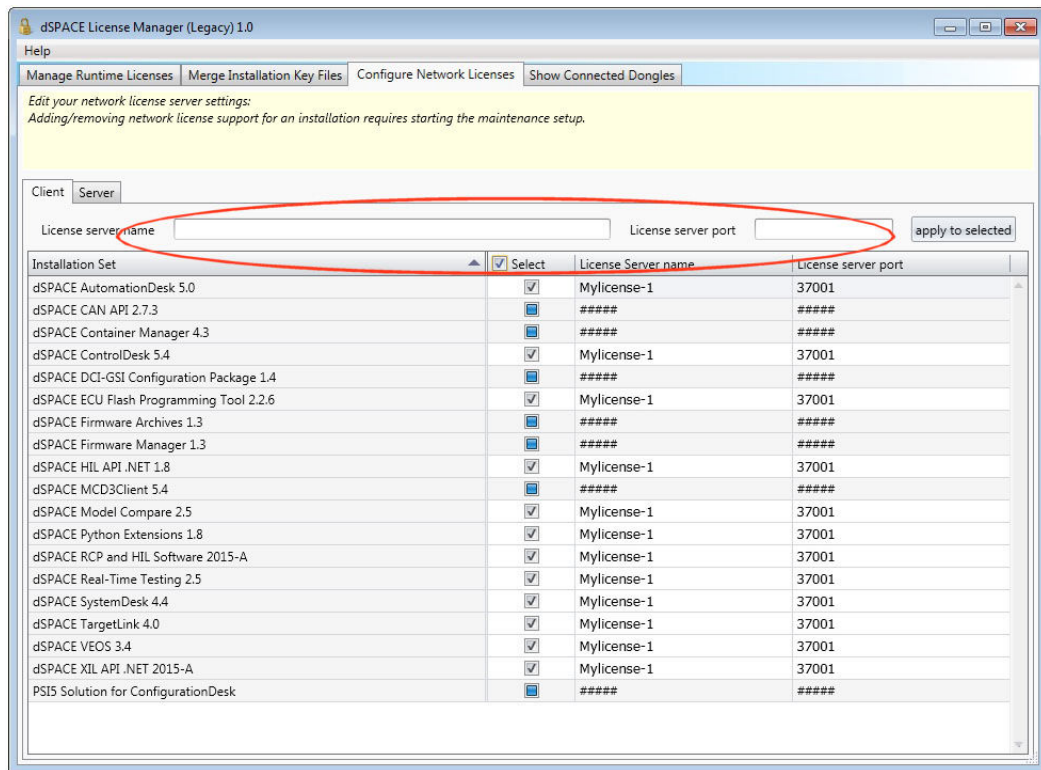


### Note

You can select only installations that support floating network licenses. You cannot select installations marked with a filled blue checkbox. They do not require licensing, or do not support floating network licenses. If you want to change their license mechanism to floating network licenses, refer to [Migrating to Floating Network Licenses \(Legacy\)](#) on page 78.

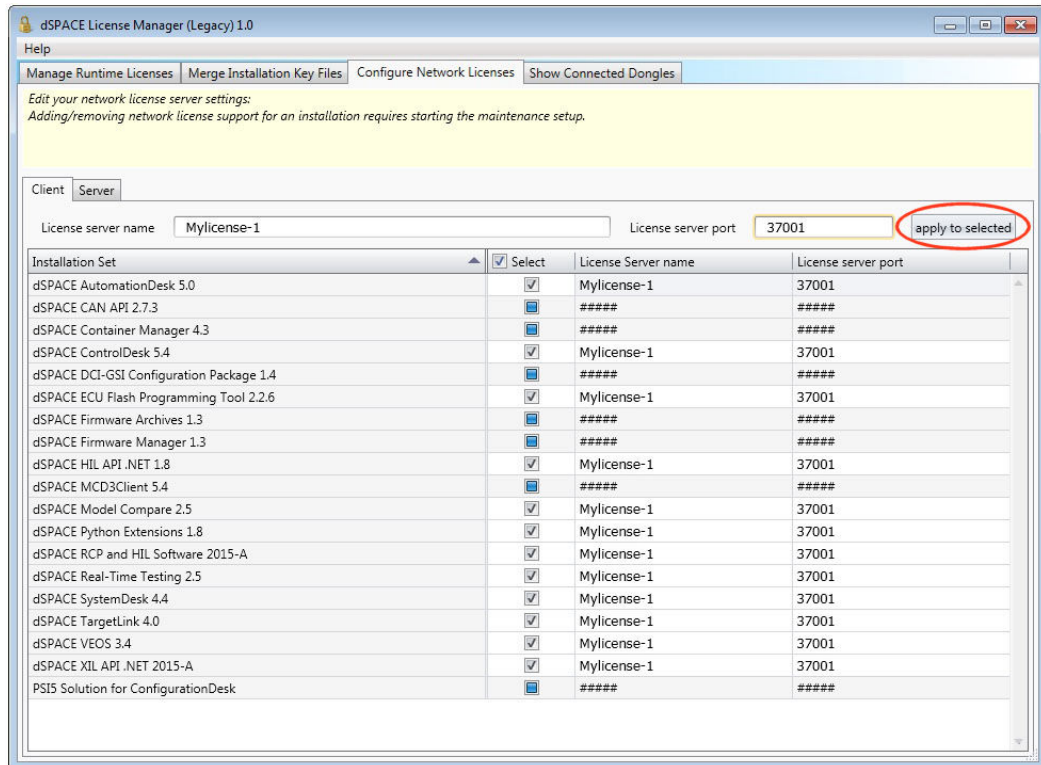
- 3 In the Select column, select the installation(s) to connect to a specific *dSPACE* License Server.

The License server name and License server port edit fields appear:



- 4 In the License server name edit field, enter the host name or the IP address of the *dSPACE* License Server.

5 In the License server port edit field, enter the server's TCP/IP port number.



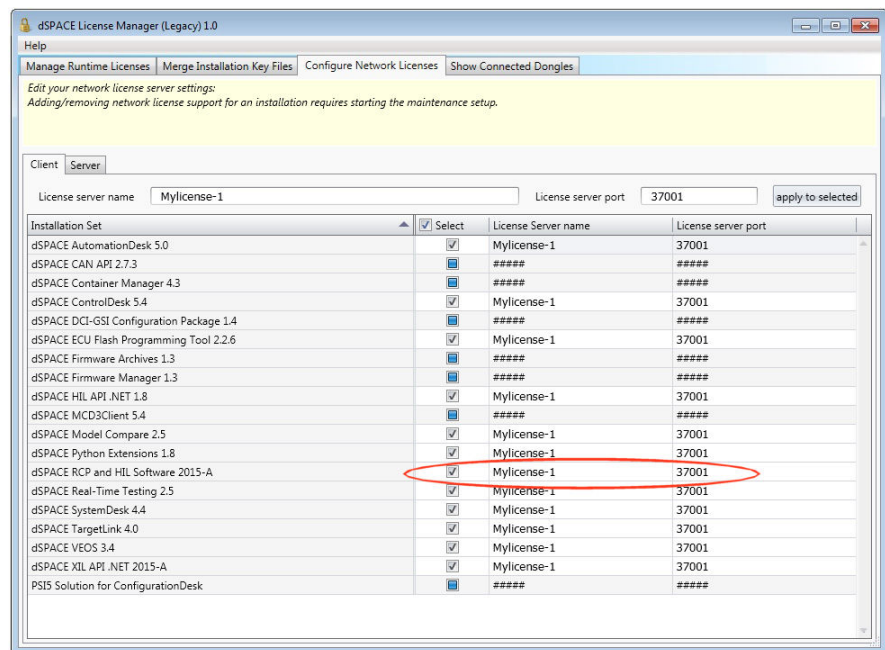
The entries in the screenshots serve as an example.

6 Click Apply to Selected.

The entries in the screenshots serve as an example.

## Result

The selected installation(s) on the client is (are) connected to the specified server. The *dSPACE License Client* saves the information about the *dSPACE License Server* to the local **License.dat** files (creates new file(s) or updates existing file(s)).



After deselecting the previous installation(s), you can set up a further connection between selected installation(s) and another *dSPACE License Server*.

# License Behavior (Legacy)

## License Behavior of Specific Products (Legacy)

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

### AutomationDesk

**Mechanism** Licenses are *checked* and *blocked* when AutomationDesk is started. AutomationDesk module licenses are blocked on first use.

The ADD\_STANDARD license is *released* immediately when AutomationDesk is closed. If a module has linger time, the license is released after the linger time has elapsed.

#### Default linger time

- ADD\_STANDARD, ADD\_AUTOMATION: no linger time
- PYEXT\_MATLABLIB2, PYEXT\_RS232LIB2, RTT\_DEVELOPER: 30 minutes

#### Reaction if no (free) license available

- AutomationDesk cannot be used if no free ADD\_STANDARD and ADD\_AUTOMATION licenses are available.
- An error message appears.

**Notes on Python Libraries** Most of the Python libraries (PYD files) are protected by license. For example, the rs232lib2.pyd Python library is protected by the PYEXT\_RS232LIB license. The license is blocked when a PYD file is imported. The license is released when the linger time has elapsed. In addition to AutomationDesk, Python scripts running in ControlDesk or PythonWin can also request PYD files.

**Notes on Real-Time Testing** RTT sequences can be transformed into byte code generator files (BCG files) only on the PC with an RTT\_DEVELOPER license. The RTT\_DEVELOPER license is necessary for downloading BCG files to the processor board via the Create function of the Real-Time Test Manager or the rttmanagerlib module.

**Tip**

BCG files generated by the Signal Editor of ControlDesk can be downloaded to the processor board without any license.

**ConfigurationDesk -  
Configuration Version**

**Mechanism** The license is *checked* and *blocked* when ConfigurationDesk is started.

The license is *released* immediately when ConfigurationDesk is closed.

**Default linger time** No linger time

**Reaction if no (free) license available** ConfigurationDesk's Loader Version opens.

**ConfigurationDesk -  
Implementation Version**

**Mechanism - Implementation license** The CFD\_Implementation license is *checked* and *blocked* when ConfigurationDesk is started.

The license is *released* immediately when ConfigurationDesk is closed.

**Mechanism - Function block license** The function block licenses are available in different sizes for different numbers of instantiated function blocks in your active ConfigurationDesk application. There are licenses that allow you to implement 100, 200, 300, 1000 or an unlimited number of function blocks.

One minimum function block license is *blocked* when a ConfigurationDesk application is loaded that contains at least one instantiated function block. The license is *released* immediately when ConfigurationDesk is closed again. The required function block license is calculated at run time from the number of instantiated function blocks in the signal chain of your active ConfigurationDesk application.

For example, if the active application requires an unlimited function block license, it can be used only if additional licenses for 100, 200, 300 and 1000 function blocks are available on the dSPACE License Server. As ConfigurationDesk also requires the smaller function block licenses, these are also blocked for other users connected to the dSPACE License Server.

For more details on the ConfigurationDesk license concept, refer to [Overview of Licenses \(ConfigurationDesk Real-Time Implementation Guide !\[\]\(aab88c0d099e5d18d6533a97b13ec28d\_img.jpg\)](#)).

**Default linger time** No linger time

**Reaction if no (free) license available**

- Most operations are blocked with an error message.
- However, you can save the ConfigurationDesk application.

**ControlDesk**

**Mechanism** Licenses are *checked* and *blocked* when ControlDesk is started. ControlDesk module licenses are blocked on first use.

All licenses are *released* immediately when ControlDesk is closed.

**Default linger time** No linger time

**Reaction if no (free) license available** ControlDesk can only be used in the Loader Version.

### FlexRay Configuration Tool

**Mechanism** The license is *checked* and the license linger time is triggered whenever:

- The FlexRay Configuration Tool is started.
- A FIBEX file is imported.
- A new project is created.
- A project is loaded.
- A project is saved.
- The About window is opened.
- The CRC configuration window is opened.
- The Controller window is opened.
- The Code Generator window is opened.
- The Hardware window is opened.

The license is *released* when the license linger time has elapsed.

**Default linger time** 30 minutes

#### **Reaction if no (free) license available**

- An error message appears.
- The action concerned, for example, opening the Hardware window, is not executed except for:
  - Opening the About window. You can always open the About window and no error message appears. The window contains information on the license.
  - Starting the FlexRay Configuration Tool. You can start the tool but an error message appears.

### Microtec PowerPC C Compiler

**Mechanism** The license is *checked* and *blocked* when an executable of the compiler is started. The license is *released* when the executable exits and the linger time has elapsed.

The linger time guarantees the availability of the license throughout the whole build process.

**Default linger time** 30 minutes

#### **Reaction if no (free) license available**

- The executables of the compiler cannot be started.
- An error message appears.

### Model Compare

**Mechanism** The license is *checked* and *blocked* when Model Compare is started.

The license is *released* immediately when Model Compare is closed.

**Default linger time** No linger time

**Reaction if no (free) license available**

- Model Compare cannot be used.
- An error message appears.

---

**ModelDesk and ASM**

**Mechanism** Licenses are *checked* and *blocked* when:

- ModelDesk is started.
- An ASM model is opened.

The MOD\_HWACCESS license is *released* immediately when ModelDesk is closed. If a module has linger time, the license is released after the linger time has elapsed.

**Default linger time**

- MOD\_HWACCESS: no linger time
- All ASM licenses: 30 minutes

**Reaction if no (free) license available**

- ModelDesk: ModelDesk cannot be used.
- ASM: The protected model cannot be used.
- An error message appears.

---

**MotionDesk**

**Mechanism** The license is *checked* and *blocked* when MotionDesk is started.

The license is *released* immediately when MotionDesk is closed.

**Default linger time** No linger time

**Reaction if no (free) license available**

- MotionDesk cannot be used.
- An error message appears.

---

**RTI and RTI Blocksets**

**Mechanism** The license is *checked* and the license linger time is triggered when:

- RTI block dialogs and RTI Task Configuration dialogs are opened.
- The RTI or RTI-MP build process is started.

The license is *released* when the license linger time has elapsed.

No license check is performed for RTI block dialogs based on Simulink masks.

**Default linger time** 30 minutes

**Reaction if no (free) license available**

- The protected block dialog does not open.
- The RTI or RTI-MP build process cannot be started.
- An error message appears.



<b>SystemDesk</b>	<p><b>Mechanism</b> The license is <i>checked</i> and <i>blocked</i> when SystemDesk is started. The license is <i>released</i> immediately when SystemDesk is closed.</p> <p><b>Default linger time</b> No linger time</p> <p><b>Reaction if no (free) license available</b></p> <ul style="list-style-type: none"> <li>▪ SystemDesk cannot be used.</li> <li>▪ An error message appears.</li> </ul>
<b>TargetLink</b>	<p><b>Mechanism</b> The <i>TL_BASE</i> license is checked and blocked when an action is performed (e.g., opening a TargetLink block dialog or generating code). For code generation with a Target Optimization Module (TOM), the related TOM license (e.g., <i>TL_C16X_TASK</i>) is checked and blocked in addition to the <i>TL_BASE</i> license. For PIL simulation the <i>TL_TGTSIM</i> license is checked and blocked. The licenses are released after the linger time has elapsed.</p> <p><b>Default linger time</b> 30 minutes</p> <p><b>Reaction if no (free) license available</b></p> <ul style="list-style-type: none"> <li>▪ The action cannot be carried out.</li> <li>▪ An error message appears.</li> </ul>
<b>VEOS</b>	<p><b>Mechanism</b> The license is checked and blocked when an offline simulation application (OSA file) is started. The type of license depends on the VPUs contained in the offline simulation application. The license is released immediately when the offline simulation application is stopped.</p> <p><b>Default linger time</b> No linger time</p> <p><b>Reaction if no (free) license available</b></p> <ul style="list-style-type: none"> <li>▪ The offline simulation application cannot be started in any client (VEOS, SystemDesk, ControlDesk, ModelDesk, AutomationDesk).</li> <li>▪ An error message appears.</li> </ul>

## Obtaining Permanent Floating Network Licenses (Legacy)

### How to Obtain Permanent Floating Network Licenses (Legacy)

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#### Validation

##### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

---

#### Objective

If you purchase floating network licenses and dSPACE does not know the MAC address of the PC on which you want to run the dSPACE License Server, you first receive licenses that are valid for only 4 weeks.

To obtain permanent licenses, you need to provide dSPACE (via e-mail to [fnl@dspace.de](mailto:fnl@dspace.de)):

- The dSPACE License ID.
- The MAC address of the network adapter installed in the dSPACE License Server.

##### Note

Both the MAC address and the dSPACE License ID are required by dSPACE to provide permanent floating network licenses. Otherwise dSPACE cannot handle your request.

You can use the dSPACE Installation Manager to get the required information and to prepare an e-mail which you can complete and send to dSPACE.

---

#### Getting the dSPACE License ID

You can get the dSPACE License ID from the name of the ZIP archive sent via e-mail (e.g., xyz\_R64.zip). If you do not have the ZIP archive available, you can use the dSPACE Installation Manager to get the dSPACE License ID as described below.

---

#### Getting the MAC address

The MAC address matches the hardware ID of your *dSPACE License Server*. Contact your system administrator to get the MAC address of the host PC, on which the *dSPACE License Server* is installed.

If the *dSPACE License Server* is installed on the same host PC as one of the networked clients, you can get the MAC address from this host PC via dSPACE Installation Manager.

## Precondition

You have an e-mail client installed on your *dSPACE License Client*.

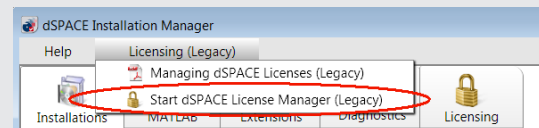
## Method

### To obtain permanent floating network licenses

- 1 On a *dSPACE License Client* with dSPACE software installed:  
From Start – dSPACE Installation Manager, select dSPACE License Manager (Legacy).

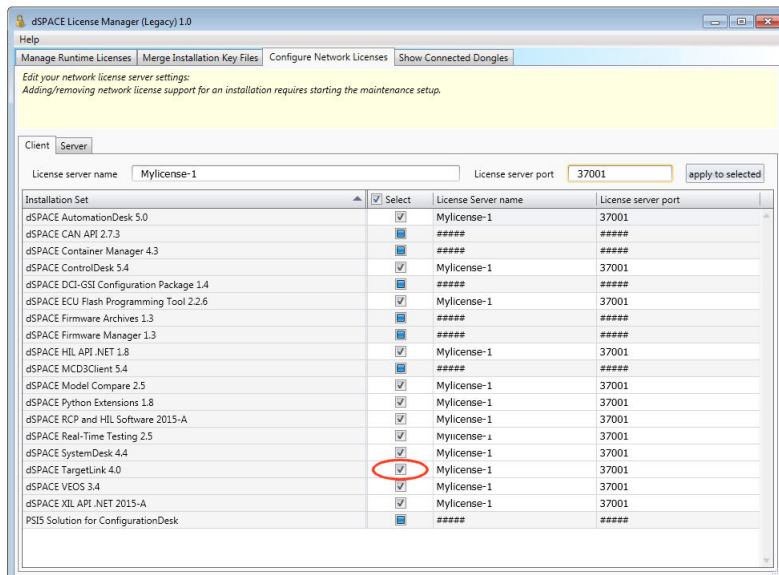
#### Tip

You also can start dSPACE License Manager (Legacy) via dSPACE Installation Manager as shown below:



dSPACE License Manager (Legacy) opens.

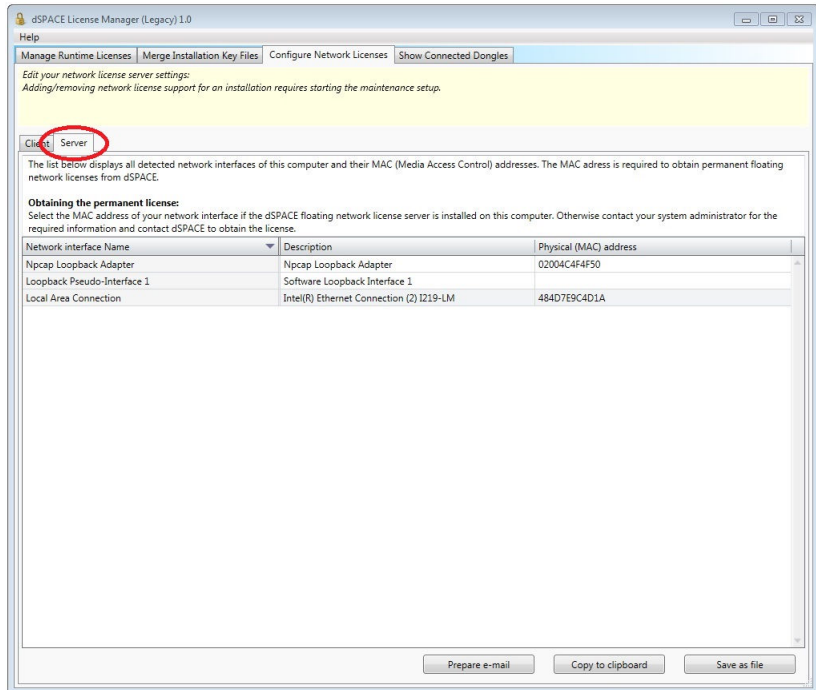
- 2 Click the Configure Network Licenses page.  
On the Client page, all dSPACE installations available on your host PC are listed as shown below.



- 3 In the list, search for installations that support floating network licenses and select their checkboxes.  
Installations not marked with a filled blue checkbox do support floating network licenses and therefore can be selected.

When you select one or more installations, dSPACE License Manager (Legacy) gets the corresponding dSPACE License ID(s) and adds it (them) later to a prepared e-mail.

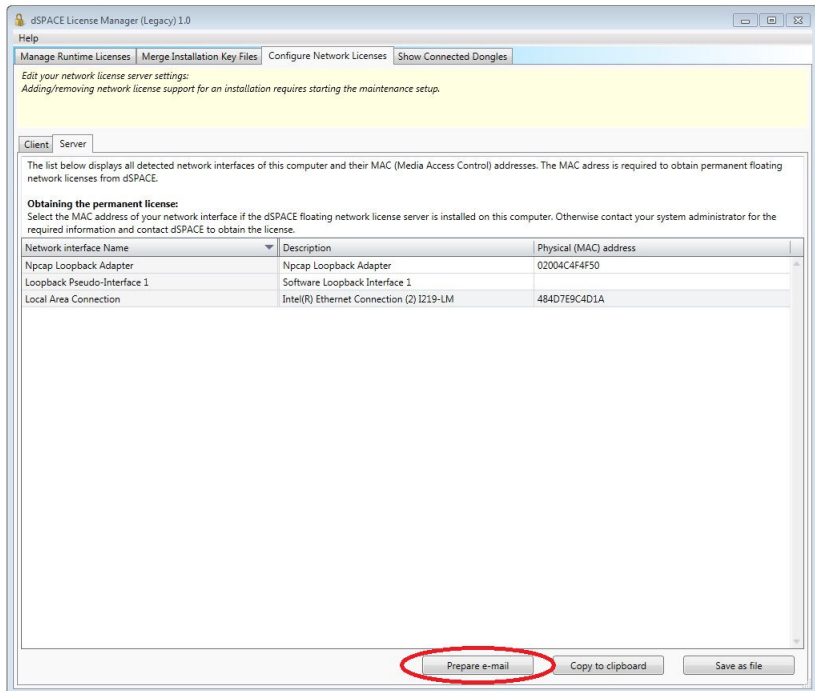
- 4 On the Network License Configuration tab, select the Server page. It displays a list of MAC addresses for the available network adapters on your host PC.



- 5 Depending on the installation location of the *dSPACE License Server*:
  - If the *dSPACE License Server* is running on another PC and not on this host PC: Do not select a network adapter.
  - If the *dSPACE License Server* is running on this host PC: From the list, select a network adapter that resides permanently in the *dSPACE License Server*.

With the permanent licenses, the *dSPACE License Server* will run only if this network adapter is present.

- 6 On the Server page, click the Prepare e-mail button.



#### Tip

If you do not have an e-mail client installed on your dSPACE License Client, the Prepare e-mail button is disabled. You then have to save the MAC address to a text file with the Save as file button, and send the file to dSPACE via e-mail from another PC. Alternatively you can copy only the MAC address with the Copy to clipboard button. You can then paste it into a text for use in an e-mail or fax.

The installed e-mail program opens, and a prepared e-mail opens with the dSPACE License ID and (if a network adapter was selected beforehand) the MAC address.

- 7 If the *dSPACE License Server* is not running on this host PC: Add the MAC address which you receive from your system administrator to the e-mail.
- 8 Send the e-mail to [fnl@dSPACE.de](mailto:fnl@dSPACE.de).

#### Next step

For instructions on how to replace the `License.dat` file with a new one (with the requested permanent licenses) and activate it, refer to [How to Update the License.dat File on the dSPACE License Server \(Legacy\)](#) on page 62.

## Migrating to Floating Network Licenses (Legacy)

### Working steps

You can migrate from dongle licenses to floating network licenses by executing the following steps:

1. The *dSPACE License Server* must be installed and set up first. For instructions, refer to [Setting Up the dSPACE License Server \(Legacy\)](#) on page 57.
2. You have to install floating network license support for the relevant installation on each *dSPACE License Client*. For instructions, refer to [How to Add Floating Network License Support on Clients \(Legacy\)](#) on page 78.
3. Only if you have not specified the settings for the *dSPACE License Server* during **Modify Installation** (step 2 above): You have to set up a connection between *dSPACE License Client* and *dSPACE License Server*. For instructions, refer to [How to Set Up a Connection Between Client and Server \(Legacy\)](#) on page 64.

## How to Add Floating Network License Support on Clients (Legacy)

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

### Objective

If you want to migrate to floating network licenses, the floating network license support must be installed for the relevant installation on each *dSPACE License Client*. You have to use dSPACE Maintenance Setup for this.

### Preparing license information

The new floating network licenses are supplied via e-mail in a ZIP archive.

**Unpacking received license files** Before sending the license files via e-mail, dSPACE creates a ZIP archive which contains the license files and changes the file name extension of the ZIP archive to avoid firewall problems. When you receive the license files, you have to change the file name extension from PIZ to ZIP. Each ZIP archive contains two or three files which have to be unpacked before installing the software. Save all these files to one folder which you specify during installation.

<b>Precondition</b>	You have administrator rights.
<b>Method</b>	<p><b>To add floating network license support on clients</b></p> <ol style="list-style-type: none"> <li>1 From Start – dSPACE &lt;Product x.y&gt; , select dSPACE Maintenance Setup (&lt;Product x.y&gt;). &lt;Product x.y&gt; is a placeholder for the software and its version, since your host PC can have multiple installations and multiple entries in Start menü. The term <i>dSPACE Maintenance Setup</i> is used for all product-specific versions, for example, dSPACE Maintenance Setup (TargetLink 4.0) .</li> <li>2 Select Modify Installation.</li> <li>3 Follow the instructions of the setup program.</li> <li>4 When prompted, reboot your PC.</li> </ol>
<b>Next step</b>	Only if you have not specified the settings for the <i>dSPACE License Server</i> during Modify Installation: Proceed with <a href="#">How to Set Up a Connection Between Client and Server (Legacy)</a> on page 64.
<b>Related topics</b>	<p>Basics</p> <p><a href="#">Floating Network License Mechanism (Legacy)</a>..... 10</p>





# Testing Dongles (Legacy)

## Where to go from here

## Information in this section

How to Test the WibuKey Dongle (Legacy).....	81
How to Test the CmDongle (Legacy).....	82

## How to Test the WibuKey Dongle (Legacy)

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

### Objective

If you use the WibuKey dongle license mechanism, you should first check the dongle installation if license problems occur. Afterwards you can test the functionality by using a diagnostics tool from WIBU-SYSTEMS.

### Method

#### To test the dongle

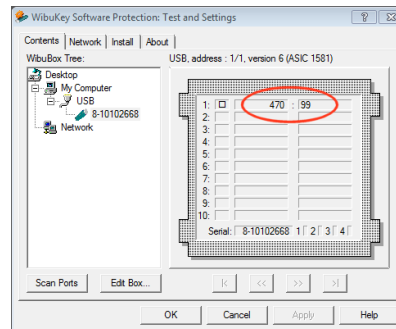
- 1 Check that the dongle is connected to a USB port.
- 2 Check that the dSPACE License ID (= dongle number) matches the license installed on your host PC. For instructions, refer to [How to Show Available Licenses \(Legacy\)](#) on page 15.

- 3 From Start, select Control Panel.
- 4 In the Control Panel, select Hardware and Sound.
- 5 Double-click the WIBU-KEY icon.

## Result

The main page of the WIBU-KEY diagnostics tool opens.

- If the dongle software recognizes the dongle, the table on the right side of the Contents page shows code 470 and your dSPACE License ID (= dongle number).



- If the dongle software does not recognize the dongle or any errors are displayed, proceed with [Debugging WibuKey Dongle Problems \(Legacy\)](#) on page 90.

## How to Test the CmDongle (Legacy)

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

### Objective

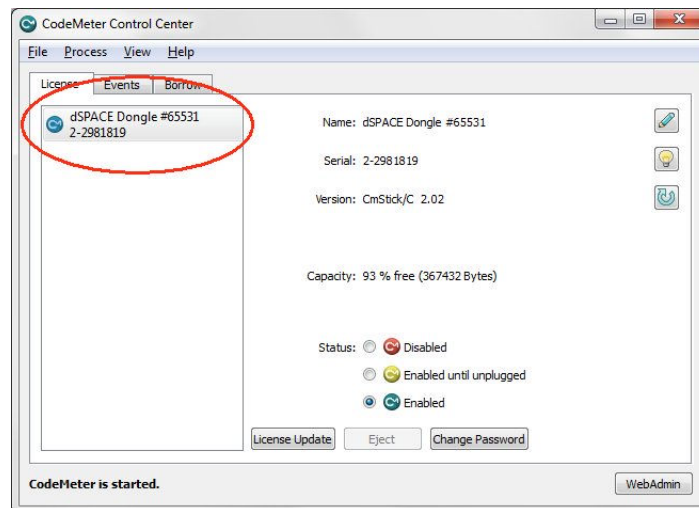
If you use the CmDongle license mechanism, you should first check the dongle installation if license problems occur.

## Method

### To test the dongle

- 1 Check that the dongle is connected to a USB port.
- 2 Check that the dSPACE License ID (= dongle number) matches the license installed on your host PC. For instructions, refer to [How to Show Available Licenses \(Legacy\)](#) on page 15.
- 3 From Start – CodeMeter, select CodeMeter Control Center.

The CodeMeter Control Center opens. On the License tab, all correctly installed CmDongles are displayed with their dSPACE License ID (= dongle number).



- 4 Ensure that the Status is set to Enabled.

#### Note

To avoid identification errors, do not change the name of the displayed dongle

## Result

All the displayed dongles are installed correctly and the related license-protected software products can be run if the dongle is activated.

If the dongle software does not recognize the dongle or any errors are displayed, contact dSPACE Support.

#### Tip

WIBU-Systems provides the CmDust diagnostic tool. This tool collects diagnostic information and saves them to a log file, which you can send to dSPACE Support.

You can access CmDust as follows: From Start – CodeMeter, select Tools – CmDust.



# License Problems (Legacy)

**Objective** The dSPACE licenses are checked on various occasions. If the software does not find a valid license, it will stop and issue an error message.

## Where to go from here

## Information in this section

Basics on Error Messages (Legacy).....	85
General License Problems (Legacy).....	87
Dongle License Problems (Legacy).....	88
Debugging WibuKey Dongle Problems (Legacy).....	90
Floating Network License Problems (Legacy).....	92
How to Check dSPACE Floating Network Licenses (Legacy).....	97

## Basics on Error Messages (Legacy)

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

## RTI error messages

### Note

When RTI and RTI Blocksets are used the error messages mentioned in this section do not appear in the described form. In addition the RTI error messages provide more text with instructions for the user. An example is given below.

#### Example for an RTI error message     RTI License Check

Checking RTI product license failed with message:

Product license for RTI not found.

Please check your license file for a valid product entry.

Refer to the dSPACE documentation for troubleshooting.

---

## TargetLink error messages

In the error messages, <product> can be any of the following products:

- TargetLink Base Suite
- TargetLink Target Optimization Module <module name>
- TargetLink Target Simulation Module
- TargetLink Module for Operating Systems
- TargetLink AUTOSAR Module
- Data Dictionary Manager

---

## Error messages

The error messages may occur due to:

- Dongle license problems. Refer to [Dongle License Problems \(Legacy\)](#) on page 88.
- Floating network license problems. Refer to [Floating Network License Problems \(Legacy\)](#) on page 92.
- Or both. Refer to [General License Problems \(Legacy\)](#) on page 87.

The *FLEXnet License Administration Guide* also provides a troubleshooting section. The guide is available:

- On Disc 1 of your dSPACE DVD set of dSPACE Release 2017-A or earlier in the `Tools\LicenseServer\fnp_LicAdmin.pdf` file.
- On the dSPACE License Server (after installation of the dSPACE software).

## General License Problems (Legacy)

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

### Error messages generated by FLEXnet Publisher

Sometimes the FLEXnet Publisher software provided as of dSPACE Release 3.4 generates misleading error messages, for example, when no more licenses are available. If an error message appears, confirm it and try the desired action again. If the error message appears again, you should:

- Perform the step-by-step test described in [How to Check dSPACE Floating Network Licenses \(Legacy\)](#) on page 97.
- Carry out the measures described below.

### Error message

*Could not find license file <file name>*

A local licence file was not found. This file contains the license codes for a specific dSPACE product.

- Check if the file has been moved, deleted or renamed. Use dSPACE License Manager (Legacy) to add the missing file. For details, refer to [How to Renew Licenses in a Local License File \(Legacy\)](#) on page 22. If you cannot fix the error, reinstall the dSPACE software.

### Error message

*Could not find an entry for <license name> version <version number> in any of the specified license files.*

The license entry for the specified product in the corresponding **License.dsp** file is missing.

This error message appears when you try to:

- Use software products or modules which you have not purchased.
- Load a multiprocessor experiment on a single-processor platform.
- Use PYD files without installing AutomationDesk.

Carry out the measure described below.

- Check the points above. Check if the file has been moved, deleted or renamed. Use dSPACE License Manager (Legacy) to add the missing license. For details, refer to [How to Renew Licenses in a Local License File \(Legacy\)](#) on page 22. If you cannot fix the error, reinstall the dSPACE software.

**Error message**

*License for <license name> version <version number> might be invalid.*

There is a number of possible reasons why the license might not be valid. Perhaps the license string of the product license is incorrect. In addition, the license entry might belong to an earlier version of the dSPACE software.

- If the license string is incorrect or the license entry belongs to an earlier product version, use dSPACE License Manager (Legacy) to add the valid license. For details, refer to [How to Renew Licenses in a Local License File \(Legacy\)](#) on page 22. If you cannot fix the error, reinstall the dSPACE software.

**Error message**

*License for <license name> version <version number> has expired.*

The license has expired.

- Your license is time-limited and the expiration date has passed. To continue working with the software, you have to renew your license. Contact the dSPACE sales department for further information.

**Related topics****References**

<a href="#">Dongle License Problems (Legacy)</a> .....	88
<a href="#">Floating Network License Problems (Legacy)</a> .....	92

## Dongle License Problems (Legacy)

**Validation****Note**

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

**Objective**

For general information on handling the dongle and activating the license, refer to [Dongle License Mechanism \(Legacy\)](#) on page 8.



**Error message**

*Cannot find any license. Check the status of your dongle or license server.*


Solving the problem depends on the dongle version used: Refer to *Dongle <license ID> is not connected* error message, described in:

- [Error message \(valid for using a WibuKey dongle\)](#) on page 89
- [Error message \(valid for using a CmDongle\)](#) on page 89

**Error message (valid for using a WibuKey dongle)**

*Dongle <license ID> is not connected.*

dSPACE software cannot access the WibuKey dongle because it is not plugged in, or the dongle software is not properly installed. Try the following:

1. If the WibuKey dongle is missing, plug it in. If the problem persists, carry out the following steps.
2. From the Start menu, select Control Panel.
3. In the Control Panel, select Hardware and Sound.
4. Select Hardware and Sound and check whether there is a WIBU-KEY icon. If this icon does not exist, you have to install dSPACE Installation Manager 3.8 or later on your host PC. This version contains the driver for the dongle. You can download the latest version of dSPACE Installation Manager from <http://www.dspace.com/go/imupdate>.
5. If the WIBU-KEY icon exists, double-click it to open the Wibukey Software Protection dialog. Check whether the software can recognize the WibuKey dongle. Refer to [Testing the WibuKey dongle](#) on page 91.
6. If not, contact dSPACE Support. Refer to [Providing Diagnostic Information](#) .

**Error message (valid for using a CmDongle)**

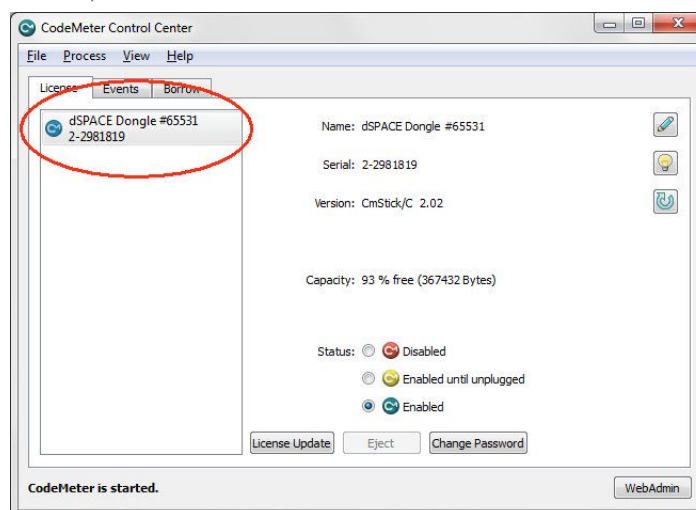
*Dongle <license ID> is not connected.*

dSPACE software cannot access the CmDongle because it is not plugged in, or the dongle software is not properly installed. Try the following:

1. If the CmDongle is missing, plug it in. If the problem persists, carry out the following steps.

2. From Start – CodeMeter, select CodeMeter Control Center.

The CodeMeter Control Center opens. On the License tab, all correctly installed CmDongles are displayed with their dSPACE license ID (= dongle number).



3. Ensure that the Status is set to Enabled.
4. If the status is set to disabled, contact dSPACE Support.

## Related topics

## References

Floating Network License Problems (Legacy).....	92
General License Problems (Legacy).....	87

## Debugging WibuKey Dongle Problems (Legacy)

### Validation

#### Note

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

### Objective

For general information on handling the dongle and activating the license, refer to [Dongle License Mechanism \(Legacy\)](#) on page 8.

Use the following troubleshooting if you have problems with your dongle.

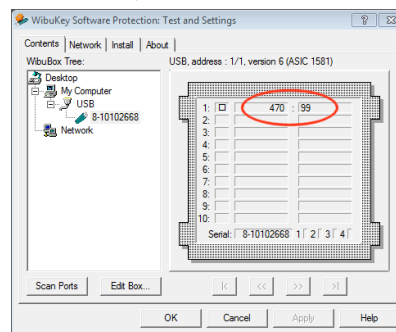
### Checking the WibuKey dongle installation

1. Check if the dongle is installed at a USB port.
2. Check if the dSPACE License ID (= dongle number) matches the license installed on your host PC.
3. Proceed with the following paragraph.

### Testing the WibuKey dongle

1. From the Start menu, select Control Panel.
2. In the Control Panel, select Hardware and Sound.
3. Double-click the WIBU-KEY icon.

The Wibukey Software Protection dialog opens.



If the dongle software recognizes the WibuKey dongle, the table on the right side of the Contents page shows the code 470 and your dongle number (= dSPACE License ID).

4. Left-click the tool icon in the dialog's titlebar to open its context menu and select **Advanced Mode**.
5. If the dongle software recognizes the dongle, select the **Test** page, click **Start**, and let the test run until the counter displays 200.
6.
  - If the dongle software does not recognize the dongle, proceed with the section 'Specifying the dongle settings' (see below).
  - If any errors are displayed, proceed with the section 'Updating the dongle driver' (see below).

### Specifying the dongle settings

1. On the Setup page, specify the settings of the USB port: In the Port setting frame, select **Enabled (port accessed by WIBU-KEY driver)**.
2. If this does not help, proceed with the following paragraph.

### Updating the dongle driver

When you use an older dSPACE Release, it can be necessary to update the dongle driver:

1. Install the latest version of dSPACE Installation Manager on your host PC. It contains the driver for the dongle. You can download the latest version of dSPACE Installation Manager from <http://www.dspace.com/go/imupdate>.
2. If this does not help, proceed with the following paragraph.

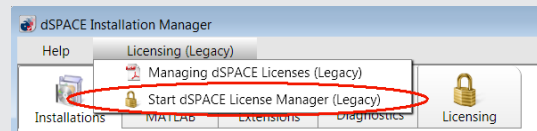
**Checking the dongle on other PCs**

To check if the dongle itself or your host PC causes the problems, try the following:

1. Install the latest version of dSPACE Installation Manager 5.7 on another host PC. It contains the driver for the dongle. You can download the latest version of dSPACE Installation Manager from <http://www.dspace.com/go/imupdate>.
2. From **Start – dSPACE Installation Manager**, select **dSPACE License Manager (Legacy)**.

**Tip**

You also can start dSPACE License Manager (Legacy) via dSPACE Installation Manager as shown below:



dSPACE License Manager (Legacy) opens.

3. Click the **Show Connected Dongles** tab to see if dSPACE License Manager (Legacy) recognizes the dongle on this PC.
4. If dSPACE License Manager (Legacy) does not recognize the dongle, contact dSPACE Support.

## Floating Network License Problems (Legacy)

**Validation****Note**

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

**Error messages generated by FLEXnet Publisher**

Sometimes the FLEXnet Publisher software provided as of dSPACE Release 3.4 generates misleading error messages, for example, when no more licenses are available. If an error message appears, confirm it and try the desired action again. If the error message appears again, you should:

- Perform the step-by-step test described in [How to Check dSPACE Floating Network Licenses \(Legacy\)](#) on page 97.
- Carry out the measures described below.

**Error message***Floating network license file not found!*

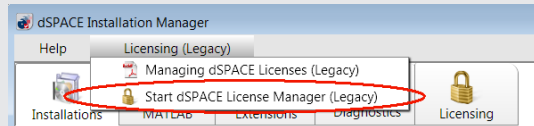
The file containing information about the dSPACE License Server to be used was not found on the dSPACE License Client.

1. On the dSPACE License Client:

From Start – dSPACE Installation Manager, select dSPACE License Manager (Legacy).

**Tip**

You also can start dSPACE License Manager (Legacy) via dSPACE Installation Manager as shown below:



dSPACE License Manager (Legacy) opens.

2. Click the Configure Network Licenses tab.

On the Client tab, all dSPACE installations available on your host PC are listed.

3. Select the installation(s) which you should connect to a specific *dSPACE License Server*.

The License Server name and License server port edit fields appear.

4. Specify the IP address and the TCP/IP port of the dSPACE License Server.

**Error message***Floating network license server not found!*

The server specified in the file containing information about the dSPACE License Server to be used was not found on the network.

There are two possible reasons:

- The dSPACE License Server is not available, because, for example the dSPACE License Server is currently down: Contact your IT department to check, if the dSPACE License Server is running.

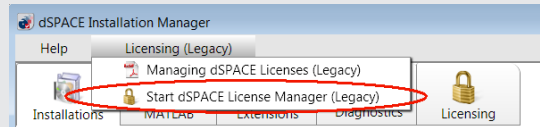
- If the license server is up and running, do the following:

1. On the dSPACE License Client:

From Start – dSPACE Installation Manager, select dSPACE License Manager (Legacy).

#### Tip

You also can start dSPACE License Manager (Legacy) via dSPACE Installation Manager as shown below:



dSPACE License Manager (Legacy) opens.

2. Click the Configure Network Licenses tab.

On the Client tab, all dSPACE installations available on your host PC are listed.

3. Select the installation(s) which you should connect to a specific dSPACE License Server.

The License Server name and License server port edit fields appear.

4. Specify the IP address and the TCP/IP port of the dSPACE License Server.

#### Error message

*Syntax error in floating network license file!*

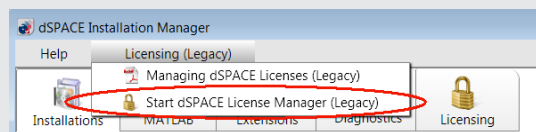
The local configuration file containing information about the dSPACE License Server to be used has a syntax error. This can happen if you change the entries in the local configuration file without using the dSPACE License Manager (Legacy).

1. On the dSPACE License Client:

From Start – dSPACE Installation Manager, select dSPACE License Manager (Legacy).

#### Tip

You also can start dSPACE License Manager (Legacy) via dSPACE Installation Manager as shown below:



dSPACE License Manager (Legacy) opens.

2. Click the Configure Network Licenses tab.

On the Client tab, all dSPACE installations available on your host PC are listed.

3. Select the installation(s) which you should connect to a specific dSPACE License Server.

The License Server name and License server port edit fields appear.

4. Check the IP address and the TCP/IP port of the dSPACE License Server and correct it if necessary.

The dSPACE License Server version is too old and cannot read the `License.dat` file.

- On the dSPACE License Server, install the latest dSPACE License Server version. Refer to [How to Install and Configure the dSPACE License Server \(Legacy\)](#) on page 60.

You can also find the latest version of the dSPACE License Server at <http://www.dspace.com/go/licserv>.

#### Error message

*All licenses for product <product> are currently being used!*

You have tried to obtain a license from the dSPACE License Server, but all available licenses are currently in use.

- A license becomes available after the session using it has finished and/or the linger time (if applicable) has elapsed. If this problem occurs frequently, you should consider purchasing additional licenses for the specified product.

#### Error message

*License for product <product> not found!*

There is no license for the specified product available on the dSPACE License Server.

- Purchase a license for the specified product and add it to the dSPACE system. You must merge the license information first. Refer to [Merging License Files \(Legacy\)](#) on page 43.

#### Error message

*Could not connect to license server!*

There are several reasons why the dSPACE License Client could not connect to the dSPACE License Server. If this message occurs, do the following:

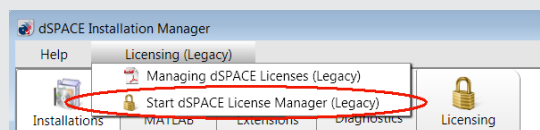
- Check if the IP address and the TCP/IP port of the dSPACE License Server are specified correctly.

1. On the dSPACE License Client:

From Start – dSPACE Installation Manager, select dSPACE License Manager (Legacy).

#### Tip

You also can start dSPACE License Manager (Legacy) via dSPACE Installation Manager as shown below:



dSPACE License Manager (Legacy) opens.

2. Click the **Configure Network Licenses** tab.

On the **Client** tab, all dSPACE installations available on your host PC are listed.

3. Select the installation(s) which you should connect to a specific *dSPACE License Server*.

The **License server name** and **License server port** edit fields appear.

4. Check the IP address and the TCP/IP port of the dSPACE License Server and correct it if necessary.

- Check if the PC which runs the dSPACE License Server appears in your Network Neighborhood. However, the dSPACE License Server could be down even if it is actually displayed due to the limitations of Microsoft's networking design. On the other hand, if it is not displayed, this does not necessarily mean that the TCP/IP connection is faulty. It could be a setting made by your network administrator.

- To check if a connection to the license server PC is possible at all, you could ping it in a Command Prompt window, for example, **ping licserver**

The Command Prompt window should show the following:

```
Pinging licserver.mydomain.com [10.0.0.1] with 32 bytes of data:
```

```
Reply from 10.0.0.1: bytes=32 time<10ms TTL=128
```

```
Reply from 10.0.0.1: bytes=32 time<10ms TTL=128
```

```
Reply from 10.0.0.1: bytes=32 time<10ms TTL=128
```

```
Reply from 10.0.0.1: bytes=32 time<10ms TTL=128
```

If the ping command results in a timeout, there is no network connection, or the dSPACE License Server is down.

#### Tip

You can open a Command Prompt window, for example, as follows:  
From the Start menu, choose **Run ...**, enter **cmd** and click **OK**.

- If the dSPACE License Server can be reached, but the dSPACE software nevertheless fails to connect, make sure there is no firewall which rejects packets destined to the given port (27000 by default). If the network problems persist, consult your network administrator.

#### Error message

##### *Bad system date on license server!*

The system date of the dSPACE License Client is not compliant with the system date of the dSPACE License Server.

- Set the system date of the dSPACE License Client to the date of the dSPACE License Server.



Error message

*FLEXnet Publisher Module missing*

You tried to install the dSPACE software with license files that did not contain a floating network license. The software was not installed.

1. From **Start – dSPACE <Product x.y>** , select **dSPACE Maintenance Setup (<Product x.y>)**.  
 <Product x.y> is a placeholder for the software and its version, since your host PC can have multiple installations and multiple products in **Start** menu. The term *dSPACE Maintenance Setup* is used for all product-specific versions, for example, dSPACE Maintenance Setup (TargetLink 4.0).
2. Select **Modify**.
3. Follow the instructions of the setup program.
4. When prompted, specify the path of the license files folder containing the floating network license file.

**Note**

Make sure that the license files contain the **Keys.dsp** and **License.dsp** files for all products installed with the first installation. Products whose license information is not contained in the license files will be uninstalled.

Error message

*Cannot find any license. Check the status of your dongle or license server.*

Solving the problem:

- Refer to [Error messages generated by FLEXnet Publisher](#) on page 92.

Related topics

References

<a href="#">Dongle License Problems (Legacy)</a> .....	88
<a href="#">General License Problems (Legacy)</a> .....	87

# How to Check dSPACE Floating Network Licenses (Legacy)

Validation

**Note**

The information in this topic applies to the legacy licensing technology used up to dSPACE Release 2017-A where license files generated for specific license IDs are used. In the context of the 'Legacy Licensing using CodeMeter Licenses' introduced in Q4/2019, only some of this information is relevant. If you require help, contact dSPACE Support (<http://www.dspace.com/go/supportrequest>).

**Objective**

Perform the following checks if you have problems with floating network licenses.

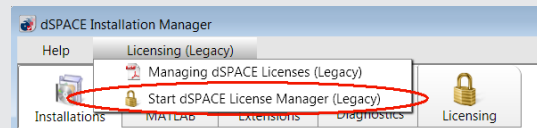
Since you can work with a dongle license, which is based on a dongle, and a floating network license on the same PC, you should first check your specific license type.

**Method****To find out the license type**

- 1 From Start – dSPACE Installation Manager, select dSPACE License Manager (Legacy).

**Tip**

You also can start dSPACE License Manager (Legacy) via dSPACE Installation Manager as shown below:



dSPACE License Manager (Legacy) opens.

- 2 Click the Manage Runtime Licenses tab.  
The tabbed page lists all the dSPACE installations on your host PC.
- 3 Select the installation from the list and expand it to see the license entries.  
The entries in the local **License.dsp** file that is associated to the selected installation on your PC are displayed.  
Floating Network licenses are labeled as FlexNet in the Type column.

**Step-by-step license check**

You should perform the following step-by-step license check before you proceed to the troubleshooting instructions in [License Problems \(Legacy\)](#) on page 85:

Step	Point to check	Method
1	Check if a floating network license has expired.	<ol style="list-style-type: none"> <li>1. On the <i>dSPACE License Server</i>, open the <code>&lt;InstallDir&gt;\Exe\License.dat</code> file with a text editor. <code>&lt;InstallDir&gt;</code> is the folder where the dSPACE License Server software is installed. The file contains the floating network license codes for the available dSPACE products. The general license code pattern reads like this: <pre>INCREMENT &lt;feat&gt; &lt;vend&gt; &lt;ver&gt; &lt;expir_date&gt; &lt;num&gt; DUP_GROUP = &lt;[H][U][D][V]&gt; SIGN = 123456789AB</pre> <ul style="list-style-type: none"> <li>▪ If the expiration date (<code>&lt;expir_date&gt;</code>) is not yet reached or if the code contains the string <b>permanent</b> instead of an expiration date, the license has not expired. If the license has expired, contact the dSPACE sales department.</li> <li>▪ The version number of the license (<code>&lt;ver&gt;</code>) must be equal or higher than the version number of the dSPACE product.</li> </ul> </li> </ol>

Step	Point to check	Method
2	Check if the dSPACE License Server is running.	<ol style="list-style-type: none"> <li>1. Right-click on the taskbar of the dSPACE License Server.</li> <li>2. From the context menu, select <b>Start Task Manager</b>.</li> <li>3. In the Task Manager, change to the <b>Processes</b> page.</li> <li>4. In the <b>Image Name</b> list, check if the processes <b>dSPACE.exe</b> and <b>lmgrd.exe</b> are running.</li> <li>5. If both processes are running, check if the dSPACE License Clients can access the server. Refer to step 3.</li> </ol> <p>If one of the processes is not yet running, open a Command Prompt window, change to <code>&lt;InstallDir&gt;\Exe\</code> and enter</p> <pre><b>lmutil lmread -vendor DSPACE</b></pre> <p>If there is still one process not running after running <b>lmutil</b>, read the entries in the <code>&lt;InstallDir&gt;\Exe\dSPACElm.log</code> file for further information.</p> <p><i>Running <b>lmutil</b> requires administrator rights.</i></p>
3	Check the TCP/IP connection between license server and license client.	<ol style="list-style-type: none"> <li>1. On the <i>dSPACE License Client</i>, open a Command Prompt window and enter the following command: <b>ping &lt;myserver&gt;</b></li> </ol> <p>If a message similar to the following one appears, the TCP/IP connection is ok.</p> <pre>Pinging &lt;myserver&gt;.&lt;mycompany.com&gt; [10.1.2.3] with 32 bytes of data: Reply from 10.1.2.3: bytes=32 time&lt;10ms TTL=128 Reply from 10.1.2.3: bytes=32 time&lt;10ms TTL=128 Reply from 10.1.2.3: bytes=32 time&lt;10ms TTL=128 Reply from 10.1.2.3: bytes=32 time&lt;10ms TTL=128</pre> <p>If the following message appears, the client cannot access the license server.</p> <pre>Request timed out.</pre> <p>In this case, ask your network administrator to establish a TCP/IP connection between client and server.</p>
4	Check the configuration of the dSPACE License Server's TCP/IP ports.	<ol style="list-style-type: none"> <li>1. Make sure that: <ul style="list-style-type: none"> <li>▪ The selected TCP/IP ports are not blocked by a firewall between the dSPACE License Server and the dSPACE License Client.</li> <li>▪ The selected TCP/IP ports are also enabled in a Virtual Private Network.</li> </ul> </li> <li>2. Define the TCP/IP port used for communication with the connected dSPACE License Clients: You can find it in the <code>&lt;InstallDir&gt;\Exe\dSPACElm.log</code> file in the line  <pre>&lt;hh&gt;:&lt;mm&gt;:&lt;ss&gt; (lmgrd) lmgrd tcp-port &lt;TCP_Port&gt;</pre> </li> <li>3. On the dSPACE License Client, activate Telnet Client and on the dSPACE License Server, activate Telnet Server (via <b>Start – Control Panel – Programs – Turn Windows features on or off</b>).</li> <li>4. Open a Command Prompt window and enter the following command: <b>telnet &lt;myserver&gt; &lt;TCP_Port&gt;</b></li> </ol> <p>If the message <b>Connection failed</b> is displayed, ask your system administrator to configure the TCP/IP port of the dSPACE License Server.</p> <p>Perhaps a firewall or router between the dSPACE License Server and the dSPACE License Client in question is not configured correctly to handle the specified TCP/IP port.</p> <p>If no error message appears, the configuration is OK.</p>
5	Check the license server's registry entries.	<ol style="list-style-type: none"> <li>1. Check the registry entries of the dSPACE License Server. The server uses the following entry:  <pre>HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\FLEXlm License Manager</pre> </li> </ol>

Step	Point to check	Method
		<ul style="list-style-type: none"> <li>▪ If the registry entry does not point to the correct <code>License.dat</code> file path, create a new registry key under <code>HKEY_LOCAL_MACHINE\SOFTWARE</code> or <code>(HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node)</code> and (re-)name it <code>FLEXlm License Manager</code>. Add the string value <code>DSPACE_LICENSE_FILE</code> containing the full path of the <code>License.dat</code> file.</li> <li>▪ If the registry entry points to the correct license file path, the server uses the correct <code>License.dat</code> file.</li> </ul>

**Tip**

You can open a Command Prompt window, for example, as follows: From the Start menu, choose Run ..., enter `cmd` and click OK.

**More troubleshooting**

If your problems are not yet resolved, refer to the troubleshooting instructions in [License Problems \(Legacy\)](#) on page 85.

**Tip**

The *FLEXnet License Administration Guide* provides a troubleshooting section. The guide is available:

- On Disc 1 of your dSPACE DVD set of dSPACE Release 2017-A or earlier in the `\Tools\LicenseServer\fnp_LicAdmin.pdf` file
- On the dSPACE License Server (after installation of the dSPACE software)

**Related topics****Basics**

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