

ETAS License Manager V1.9 & License and Download Portal



Online Help

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ETAS License Manager 1.9 & License and Download Portal R03 EN | 08.2026

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1 Introduction

1.1 Classification of Safety Messages

Safety messages warn of dangers that can lead to personal injury or damage to property:



DANGER

DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.



WARNING

WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.



CAUTION

CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE indicates a situation that, if not avoided, could result in damage to physical property.

ATTENTION

ATTENTION indicates a situation that, if not avoided, could result in damage to digital property like data loss, data corruption and system vulnerability.

1.2 Data protection

If the product contains functions that process personal data, legal requirements of data protection and data privacy laws shall be complied with by the customer. As the data controller, the customer usually designs subsequent processing. Therefore, he must check if the protective measures are sufficient.

1.3 Data and information security

To securely handle data in the context of this product, see the next sections about data and storage locations as well as technical and organizational measures.

1.3.1 Data and Storage Locations

The following sections give information about data and their respective storage locations for various use cases.

1.3.1.1 License Management

When using the ETAS License Manager in combination with user-based licenses that are managed on the FNP license server within the customer's network, the following data are stored for license management purposes:

Data

- Communication data: IP address
- User data: User ID

Storage location

- FNP license server log files on the customer network

When using the ETAS License Manager in combination with host-based licenses that are provided as FNE machine-based licenses, the following data are stored for license management purposes:

Data

- Activation data: Activation ID
 - Used only for license activation, but not continuously during license usage

Storage location

- Windows
FNE trusted storage
C:\ProgramData\ETAS\FlexNet\fne\license\ts
- Linux
/usr/share/ETAS/LiMa/fne/license/ts/

1.3.2 Technical and Organizational Measures

We recommend that your IT department takes appropriate technical and organizational measures, such as classic theft protection and access protection to hardware and software.

2 User guide for License Manager

This section contains all relevant information regarding the License Manager (LiMa).

2.1 About ETAS License Manager

The ETAS License Manager provides an overview of all licenses that are required for using the ETAS programs installed on your PC, and displays their current state. It enables you to manage, add, or delete licenses needed for working with these ETAS programs as well as to borrow and return licenses.

License Types

The following license types are available:

License Type	Storage	Information
Machine-based	local	The license is valid only on a specific PC and linked to hardware specific IDs (e.g. MAC address of the Ethernet adapter).
User-named	server-based	The license is linked to the MAC address of the server and to the user name with which the user is registered in the network.
Floating	server-based	Several users share a limited number of licenses.

If server-based licenses are used, you can borrow a license for a certain period of time to use it offline, i.e. without being connected to the license server or to a network.

License Technology

When viewing licenses or entitlements in the [ETAS Licensing Portal](#) it is important to distinguish between the license types. There you find in the column **Type** an icon indicating the technology used.

Icon	Technology	Information
	FlexNet Publisher (FNP)	— The FNP license is activated using the activation ID in the ETAS license portal. — FNP licenses are saved in LIC files which are deployed either onto the target PC or onto a license server. The license file itself contains the license information in readable format.
	FlexNet Embedded (FNE)	— The FNE license is activated using the activation ID in the ETAS License Manager tool on the target PC. — FNE licenses are not stored in readable files but in a so called "trusted storage". This is a data storage on the customer device which is secured against manipulation or copying using additional measures. Therefore ETAS License Manager offers either online activation or offline activation. For more information, see "Activating and Returning Machine-Based License of Type FlexNet Embedded (FNE)" on the next page.

Getting a License

Before you can start using ETAS software that underlies license management, you need a license. You can receive the license in one of the following ways:

- from your local tool administrator
- from an ETAS account manager
- via a self-service portal on the ETAS internet page at <http://www.etas.com/support/licensing>
- in the ETAS License Manager by entering the activation ID (for more information, see "[Activating and Returning Machine-Based License of Type FlexNet Embedded \(FNE\)](#)" on the next page.

2.2 Working with ETAS License Manager

2.2.1 Prerequisites for ETAS License Manager usage

Ensure that all users logged in to the machine have write permissions for the following folder:

C:\ProgramData\ETAS\FlexNet

This is essential for proper functionality.

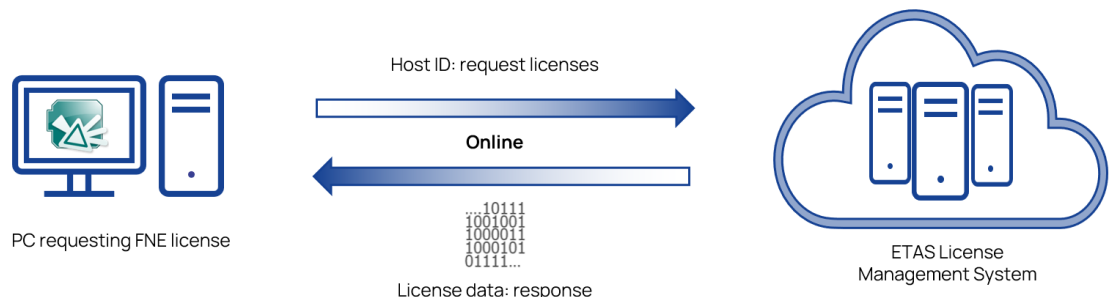
2.2.2 Activating and Returning Machine-Based License of Type FlexNet Embedded (FNE)

To activate or return a machine-based license with FlexNet Embedded, you need an activation ID.

- ["To activate a machine-based license online" below](#)
- ["To activate a machine-based license offline" below](#)
- ["To return a machine-based license" on page 13](#)

To activate a machine-based license online

If your PC is connected to the internet, you can activate the machine-based license online. The License Manager will contact the ETAS license server located in the internet and download the license directly on your PC.

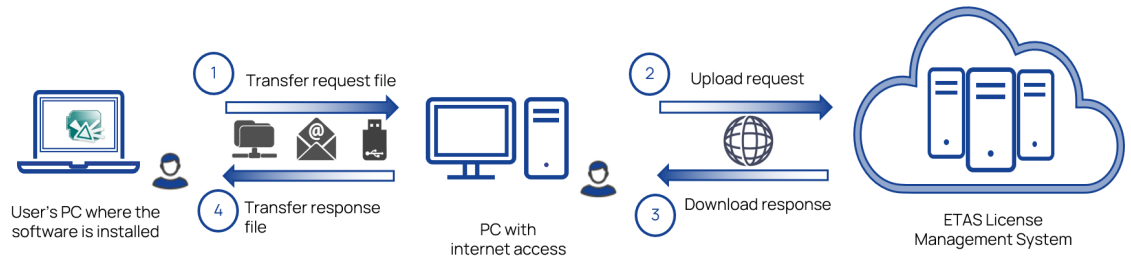


To activate the license online, do the following:

1. In the **Device** menu, select **Online Activation**.
 2. Enter the activation ID printed on the ETAS Entitlement Certificate and click **Activate**.
- ⇒ The license is activated.

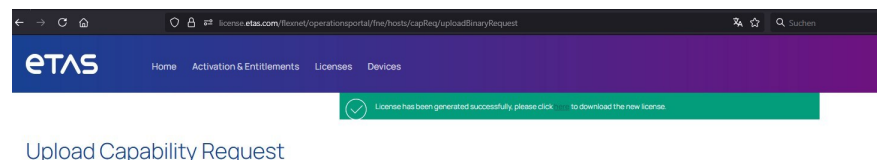
To activate a machine-based license offline

If your PC is not connected to the internet, you need to activate your activation ID offline. This involves files creation containing request information that needs to be uploaded to the ETAS license portal, and transferring so called response data to your PC. To perform the activation, you can use a USB stick, an e-mail, a network share etc.



To activate the license offline, do the following:

1. On the PC where the software is installed
 - i. Select in the **Device** menu of the License Manager the entry **Offline Activation**.
 - ii. Type the activation ID printed on the ETAS Entitlement Certificate in the field **Activation ID**.
 - iii. At **Step 1** click **Create Request**.
A BIN file is created. The default file name ends with `_activate-request.bin`.
 - iv. Save the BIN file.
2. On a PC with internet connection:
 - i. Login to the ETAS License and Download Portal (<http://www.etas.com/support/licensing>) with your activation ID.
 - ii. In the **Devices** menu, select **Upload Capability Request**.
 - iii. Click **Browse** and select the file ending on `_activaterequest.bin`.
 - iv. Click **Upload** to process the file.
A request BIN file is created.
 - v. Download the new file and save it.



3. On the PC where the software is installed:
 - i. In the **Device** menu of the License Manager, select the entry **Offline Activation**.
 - ii. At **Step 2** click **Complete Activation** and upload the BIN file that you have downloaded from the ETAS License and Download Portal.
 - iii. Click **Upload**.
- ⇒ The license is activated.

To return a machine-based license**Note**

It is only possible to return a machine-based license for FlexNet Embedded in the offline modus.

1. On the PC where the software is installed.
 - i. Select in the **Device** menu of the License Manager the entry **Offline Return**.
 - ii. Select an activation ID from the drop-down menu.

or

 - i. In the table of the License Manager right-click the activation ID shown in the column **Serial Number**.
 - ii. Select **Copy Serial Number to Clipboard**.
 - iii. Select in the **Device** menu the entry **Offline Return**.
 - iv. Paste the activation ID in the field **Activation ID**.
2. At **Step 1**
 - i. Click **Ask for Return**.
A BIN file is created. The default file name ends with `_returnrequest.bin`.
 - ii. Save the BIN file.
 - iii. On a PC with internet connection, login to the ETAS License and Download Portal (<http://www.etas.com/support/licensing>) with your activation ID.
 - iv. In the **Devices** menu, select **Upload Capability Request**.
 - v. Click **Browse** and select the file ending on `_returnrequest.bin`.
 - vi. Click **Upload** to process the file.
A response BIN file is created.
 - vii. Download the new file and save it.
 - viii. In the **Device** menu of the License Manager select the entry **Offline Return**.
3. On the PC where the software is installed:
 - i. At **Step 2** click **Delete License** and upload the BIN file that you have downloaded from the ETAS License and Download Portal.
A window appears.
 - ii. Click **OK**.
4. At **Step 3**
 - i. Click **Confirm Return**.
A confirm BIN file is created which ends with `returnconfirm.bin`.
 - ii. Save the BIN file.

- iii. On a PC with internet connection, login to the ETAS License and Download Portal (<http://www.etas.com/support/licensing>) with your activation ID.
- iv. In the **Devices** menu select **Upload Capability Request**.
- v. Upload the confirm BIN file.
- vi. Click **Upload**.

The license portal asks you to download a new BIN file. You can ignore this request.

The return process is completed.



Note

Only if you perform the last step, the license has been returned.

2.2.3 Migrating FlexNet Publisher Licenses to FlexNet Embedded



Note

The migration of a FlexNet Publisher license to FlexNet Embedded is only possible with a valid maintenance contract.

- ["To migrate machine-based licenses online" below](#)
- ["To migrate machine-based licenses offline" below](#)

To migrate machine-based licenses online

If your PC is connected to the internet, you can migrate the machine-based licenses online.

1. In the **Device** menu, select **Online Migration**.
2. Select the licenses that you want to migrate.
3. Click **Migrate Selected Licenses** to migrate the licenses to FlexNet Embedded.

To migrate machine-based licenses offline

If your PC is not connected to the internet, you need to create files containing request information that needs to be uploaded to the ETAS license portal and transferring so called response data to your PC.



User's PC where the software is installed

- LiMa > Device > Offline Migration
- Select activation IDs to be migrated
- Step 1: Create Request
- Save the created request file on a device and copy it to the PC used in step 2



PC with Internet connection

- LiMa > Device > Offline Migration
- Step 2: Upload request file
- Save the response file and copy it to the PC used in step 3



User's PC where the software is installed

- LiMa > Device > Offline Migration
- Step 3: Process response > Upload the response file

Do the following:

1. On the PC where the software is installed, select in the **Device** menu of the License Manager the entry **Offline Migration**.
2. Select the activation IDs that you want to migrate.
3. At **Step 1**
 - i. Click **Create Request**.
A request file for the migration is created.
 - ii. Save the request file on a device and transfer it on the PC used in step 2.
4. On a PC with internet connection:
 - i. In the **Device** menu, select the entry **Offline Migration**.
 - ii. At **Step 2**, click **Upload Request**. The ETAS License Manager will upload the request file that contains the migration information.
You get a response file.
 - iii. Save the response file and transfer it to the PC used in step 3.
5. On the PC where the software is installed:
 - i. In the **Device** menu of the License Manager, select the entry **Offline Migration**.
 - ii. At **Step 3**, click **Process Response** and upload the response file that you have received.
The licenses are migrated to FlexNet Embedded.

2.2.4 Upgrading Licenses

You can use the online and offline upgrade feature to upgrade your licenses to a higher version for your licensed ETAS products. When using this feature, the ETAS License Manager checks the ETAS License Portal (FNO server) for the latest state of your licensed ETAS products.



Note

You can only upgrade your licenses if you are using a valid machine-based license. You can not upgrade your licenses if you are using floating licenses, user-named licenses, or working via a remote desktop session (RPD) .

If you can not upgrade your licenses, contact your [ETAS Tool Coordinator](#).

To upgrade licenses online

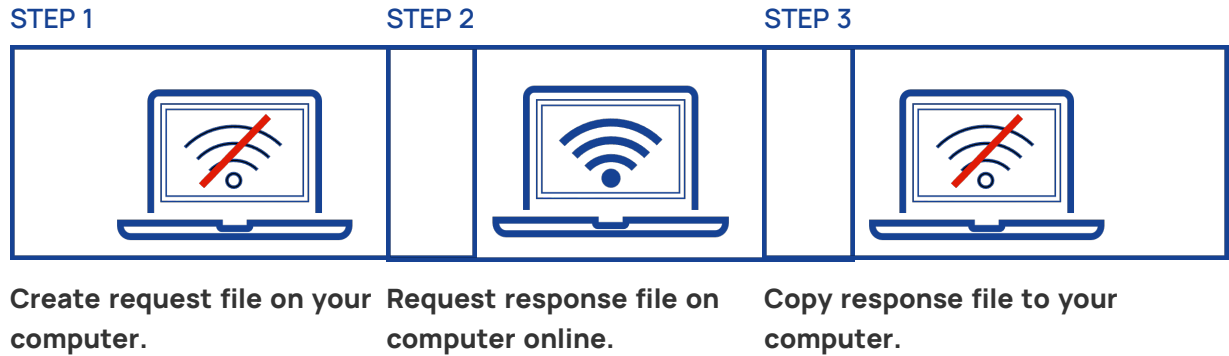
If your computer is connected to the Internet, you can upgrade the licenses online.

1. In the **Device** menu, select **Online Upgrade**.
The License Manager lists machine-based licenses for both FlexNet Embedded and FlexNet Publisher technology.

2. Select the licenses that you want to upgrade.
3. Click **Upgrade Selected Licenses** to upgrade the licenses.

To upgrade licenses offline

If your computer is not connected to the Internet, you must create files with the request information that must be uploaded to the ETAS License Portal for review and transfer the response data to your computer.



1. On the computer where the software is installed, select in the **Device** menu of the License Manager the entry **Offline Upgrade**.
The License Manager shows you machine-based licenses for both FlexNet Embedded and FlexNet Publisher technology.
2. Click **Check if online upgrade is possible**. If it is possible, use the ["To upgrade licenses online" on the previous page](#) otherwise continue with next steps.
3. Select the Activation IDs that you want to upgrade.
4. At **Step 1**
 - i. Click **Create Request**.
A request file for the upgrade is created.
 - ii. Save the request file on a device and transfer it on the PC used in step 2.
5. On a computer with internet connection:
 - i. In the **Device** menu, select the entry **Offline Upgrade**.
 - ii. At **Step 2**, click **Upload Request**.
The ETAS License Manager will upload the request file that contains the upgrade information.
You get a response file.
 - iii. Save the response file and transfer it to the PC used in step 3.
6. On the PC where the software is installed:
 - i. In the **Device** menu of the License Manager, select the entry **Offline Upgrade**.

- ii. At **Step 3**, click **Process Response** and upload the response file that you have received.

The licenses are upgraded.

2.2.5 Borrowing and Returning a License

The borrowing mechanism allows you to work offline (i.e. without being connected to the license server) even if you are using a server-based license.



Note

Borrowing a license is only possible if you are using a server-based license. For more information about a server-based license, see ["License Types" on page 9](#).

- ["To borrow a license" below](#)
- ["To return a borrowed license" below](#)

To borrow a license

1. If you want to borrow specific licenses, select them in the table.
 2. In the **License** menu, select one of the following options:
 - **Borrow Selected Licenses**
 - or*
 - **Borrow All Licenses**
 3. In the calendar view, select the date until which you would like to borrow the licenses.
 4. Click **OK**.
- ⇒ The source information changes into **Borrow**. The borrow expiry date is displayed. You can now use the corresponding ETAS software offline until the borrow expiry date is reached.

If you would like to continue to use the ETAS software longer than determined, you can borrow it again. If you have finished using the ETAS software earlier than planned, you can return it earlier to the license server.

To return a borrowed license

If you have finished using the ETAS software earlier than planned, you can return it earlier to the license server.



Note

A borrowed license can only be returned by the person who borrowed it. It cannot be returned by somebody else.

1. Make sure that the ETAS software whose license you would like to return is not running.
2. If you want to return specific licenses, select them in the table.

3. In the **License** menu, select one of the following options:

- **Return Selected Borrowed Licenses**

or

- **Return All Borrowed Licenses**

⇒ The source information changes into **Server**.

2.2.6 Checking the License Status

The ETAS License Manager contains one entry for each installed feature.

To check the license status, do the following:

1. If you want to get the status of specific features, select them in the table.
2. In the **License** menu, select one of the following options:

- **Refresh Selected Licenses**

or

- **Refresh All Licenses**

⇒ The check-out of the licenses is started.

The following information is displayed:

State (icon)

This column displays a graphical symbol indicating the current state of the license. After refreshing, one of the following symbols is shown:



A valid license file is installed for the product.



No valid license file is available for the product.



A valid license file is installed for the product, but it will expire within the next 30 days.

Product

Indicates the main ETAS product the license is valid for (e.g. INCA, ASCET).

Feature

Specifies the content the license is valid for.

For any content that requires a separate license, e.g. an add-on to the main product, you need a separate license.

Status

Indicates the current licensing status for the ETAS software. The following status values are available:

Status	Explanation
Unknown	The information has not yet been refreshed.
In use	A license is installed and in use, i.e. the software is running.
Installed	A license is installed, but not in use, i.e. the software is not running.
Grace Mode	The Grace Mode ¹ is active.
Not available	There is no license installed. It is not possible to use the corresponding ETAS software.
Heartbeat failed	The product requires heartbeat exchanging with the server, but it failed.
Checkout successful	The license is checked-out.
Checkout pending	The checkout has not yet been completed. You can cancel the checkout.
Checkout cancelled	The checkout has been cancelled.
Borrow	The license has been borrowed. If automatic borrow is activated, the system has automatically prolonged the borrowed license.
Borrow pending	The system has tried to automatically prolong the borrowed license but could not complete the action.

Feature Version

Displays the license version requested by the installed software. The software version can differ from the license version.

Operating Version

Displays the version of the license.

¹⁾ Licenses can be either permanent or limited for a certain period. If you are borrowing a license from a license server, for instance, this is always limited to a certain date, which you can enter upon borrowing. The Grace Mode offers a defined contingent of days of usage in which the software can be used without a license. Only the actual days of usage will be counted. The available contingent depends on the ETAS software offering the Grace Mode. It can be disabled or provides up to 14 days of usage. Once this contingent has been used up, the ETAS software can be run only after installing a valid license.

**Note**

The license version and the product version are not identical. Example: according to the license model, the license version 7.2 can be valid for the product versions 7.0 and 7.1. For details see your license contract.

Policy Type

Indicates which license type is in use. The following license types are available:

Policy Type	Explanation
Publisher	FlexNet Publisher licensing, using license files
Embedded	FlexNet Embedded licensing, using trusted storage
No license	No available license
Grace Mode	Defined contingent of usage days in which the software can be used without a license

Source

Indicates where the license is managed. The following license sources are available:

Source	Explanation
Not available	The information has not yet been refreshed.
Local	The license is referring to the MAC address of your PC and cannot be used on any other PC. Local licenses allow you to work offline without being connected to a license server.
Server	The license is provided via a license server. The license file needed for this license type contains the reference to the license server and is installed locally on your PC.
Borrow	The license is checked out from the license server, which allows you to work offline. It will become invalid after a predefined time. If you want to continue to use the ETAS software after the expiry date, you need to borrow the license again. The license file needed for this license type contains the reference to the license server and is installed locally on your PC.

Expiration Date

Indicates when the license will expire.

**Note**

The status information can be automatically refreshed when starting the ETAS License Manager. For more information, see ["Setting User Options" below](#).

Remaining Days

Indicates the remaining usage days available.

Grace Mode Days Left

Indicates when the Grace mode will expire.

Autoborrow Active

Indicates if the autoborrow mode is active.

Autoborrow Interval

Indicates the number of days for which the license is to be borrowed.

Autoborrow Renewal Period

If autoborrow is active, indicates the days remaining before the license borrowing is extended by the number of days given in **Autoborrow Interval**.

Serial Number

Shows the activation ID for the machine-based license.

Terminal Service

Shows if the PC allows that you can use the FNP license for remote working.

2.2.7 Setting User Options**Tools**

In the **Tools** menu, you can perform the following actions:

Reset Warning Dialogs

If you have ticked the **Never show dialog again** checkbox for a warning message, this warning message is no longer displayed. By clicking **Reset Warning Dialogs**, you can enable all warnings again.

Tools options

When you open the **Options** dialog, you can make the following settings:

Checkout retries

This option defines how often the system shall try to borrow a license. After the last retry, the result of this retry is shown.

Skip on host down

If the host cannot be accessed, with this option the checkout of the license can automatically be skipped.

Refresh status information at startup

The status information is automatically refreshed when starting the ETAS License Manager.

Remember window layout and positions

The current size and position of the **ETAS License Manager** window is stored.

Offline mode

The ETAS License Manager changes into "offline mode". Now, only machine-based and borrowed licenses can be used. Due to internal processes, it is possible that in some cases when using the offline mode you will get a notification if you do not have write permission.

Autoborrow visible

Shows three additional columns in the license manager: "Autoborrow Active", "Autoborrow Interval" and "Autoborrow Renewal Period".

Operating version visible

Displays the version of the license.

Remaining days visible

Shows the remaining usage days available in the Grace Mode.

Re-parse descriptions

Shows the license description files of the installed software and add-ons.

Policy type visible

Shows the license type used (Publisher, Embedded, No License, Grace Mode).

Serial number visible

Shows the activation ID for the machine-based license.

Device settings

In the **Device** menu, if you open the **Settings** dialog, you can perform the following actions:

Copy to Clipboard

Copies the Host Identifier to the clipboard.

Test Connection

Checks if your PC can access the FlexNet Operations server.

Copy Address to Clipboard

Copies the Internet Proxy address to the clipboard.

Copy User ID to Clipboard

Copies the user ID to the clipboard.

Proxy Password

Allows to enter a password for the Internet Proxy.

Proxy Mode

Allows you to choose between three different proxy modes:

- **None:** no internet proxy is used
- **Manual:** you can choose the proxy address, the user ID and the proxy password
- **Auto:** the License Manager searches automatically for the proxy address, the user ID and the proxy password

Open Requests in Explorer

Opens a new File Explorer window containing the request files.

Open Responses in Explorer

Opens a new File Explorer window containing the response files.

Time-out

Allows you to configure the duration of the connection to ETAS FlexNet Operations (ETAS FNO).

2.2.8 Accessing Flexera Tools



Note

Access to the Flexera tools is intended for usage by administrators only.

In the **Tools** menu, select **Flexera Tools**.

The folder containing the Flexera tools and the corresponding PDF documentation opens.

2.2.9 Expiry Warning

If your installed license runs out in the next 30 days, a warning is shown when you open the ETAS software.

In the **Expiry Warning** dialog box, you can proceed as follows:

Manage Licenses

1. Click **Manage License** to open the **ETAS License Manager** window and install a valid license file.

As soon as a valid license is installed, you can continue running the ETAS software in the normal operating mode.

Ignore

1. Click **Ignore** to close the dialog box and continue starting the program.
This is only possible within the grace mode period (14 days). Once the grace mode period is over, you can only use the ETAS software after installing a valid license file.

2.3 License server setup

This section contains information about License server setup for Windows and Linux.

2.3.1 License server setup – Windows as server

2.3.1.1 Prerequisites

For the setup, you need to download the ETAS License Server package.

1. Open the ETAS license and download portal using this [link](#).
2. Click the following file: ETAS License Server V11.19.10.

The file details opens.

3. To download the package, click **Download**.

The package is downloaded and saved to the configured download folder.

2.3.1.2 Additional files

License file

The license file is the file to be read by the ETAS License Server and it contains the reserved word SERVER and VENDOR ETAS, together with the IP address of the server, the MAC address of the server, and a free TCP/IP port number which is required by the server to listen for license requests, in the example below 28127.



Note

Firewall rules should not apply to this port.

The information regarding features depends on the particular license and it is generated automatically in the ETAS license and download portal. You don't have impact on this and you cannot edit this part.

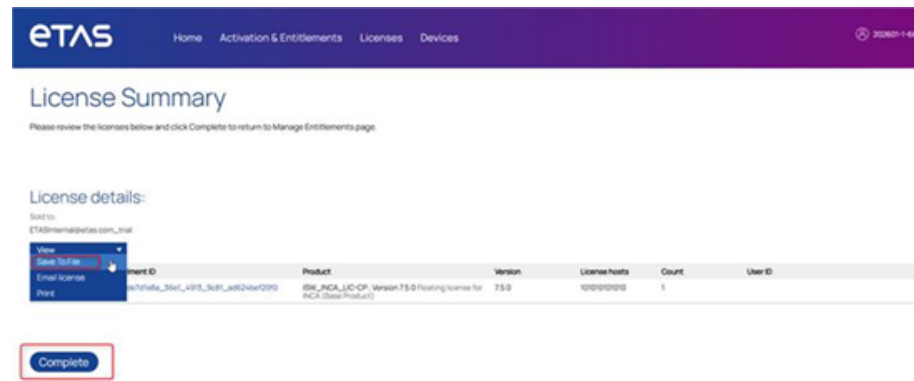
To fill in the required information into the license file

1. Find the MAC address of the server that will host the licenses.
2. Open the ETAS License & Download Portal and sign in with your credentials. For more information, see "[Access to the ETAS License and Download Portal](#)" on page 61.
3. In the **Activations & Entitlements** tab, select the Activation ID and click **Activate**.
4. Click **Next**.

5. Click the + icon.
6. Fill in the Server Mac address.
7. Click **OK**.
8. Click **Next**.

- 9.
10. Enter the fulfillment count.
11. Click **Next**.

12. Select the fulfillment and
13. to download the license file, click **Save To File**.
14. Click **Complete**.



15. Place the license file in the folder.
16. Open the downloaded license file. It already contains your server's MAC address.
17. Add the Server_Host and the TCP/IP port.

Your file looks like the following:

```
SERVER 10.165.235.72 00505686d0ca 28127
VENDOR ETAS INCREMENT INCA ETAS 7.2 permanent 100
VENDOR_STRING="ETAS Evaluation" \ ISSUED=29-mar-2007
BORROW=12752 SIGN="1529 927F 605B 6A35 540D \ A047 0F01
1CE3 9257 6A9C E0A7 DCA2 E2FF E7F0 362B 068D 81C4 \ 51E8
A905 601D 2FBC 7766 48B2 4D62 15C9 A755 DB91 1355 5DB6 \
2D46"
```

18. Save your changes.

serverpointer.lic

For a client machine to obtain a floating license from the server, it must know where to find the license server on the network. This information is stored in the `serverpointer.lic` file on the client system. It is be read by the ETAS License Manager in client.

This file contains IP address, MAC address of the server and port number with which the license server features can be accessed.

EXAMPLE

```
SERVER 10.165.235.72 00505686d0ca 28127 USE_SERVER
```

2.3.1.3 Options file (etas.opt)

The `etas.opt` is a plain text file that gives the license administrator full control over how floating licenses are distributed. It allows you to:

- Restrict access: Define which users, hosts (computers), or groups can use a license.
- Reserve licenses: Guarantee that critical users or teams always have

access to a specific license feature.

- Limit usage: Set up a maximum number of licenses that a certain user, host, or group can check out.

The below example shows, how the file works.

After opening the file, you can see the following:

The Users added to the GROUP ETAS_ALL_USERS have access to all the features that are available in the `license.lic` file.

The second block starting with `INCLUDE <feature_name> GROUP ETAS_ALL_USERS` grants the ETAS_ALL_USERS group permission to use the named feature

2.3.1.4 Executable files

lmgrd.exe

`lmgrd.exe` is a legitimate license manager daemon which handles initial client connection requests, starts vendor-specific daemons, and serves as the central component of a network license server.

ETAS.exe

Etas vendor daemon is a background program that manages software licenses for products. These daemons track the usage and availability of licenses for a software product, ensuring that a user is only using a license if they are authorized to do so and if a license is available.

lmtools.exe

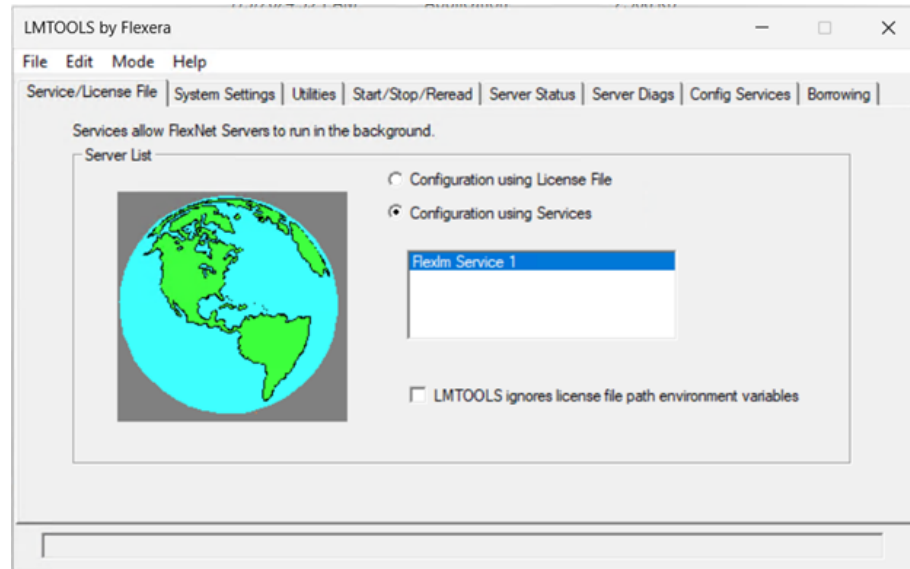
`lmtools.exe` is a graphical utility that allows you to administer the license server. It provides a user-friendly interface for common administrative tasks, including:

- Starting, stopping, and rereading license files
- Viewing the server's status
- Configuring the license server as a Windows service

2.3.1.5 Setup

Starting Lmtools.exe

1. Start the exe by double-clicking it.



System settings

1. Navigate to the **System Settings** tab.
2. Check the IP and MAC address.

The IP and MAC address needs to be the same as in the license file and in the server pointer file.

Config service

1. To start the configuration of the license server, click the Config Service tab.
2. Set the path of the `lmgrd.exe`, the license file, and the `etas.log` file.
3. To save the log of the license server, create the `etas.log` file and set the path of `etas.log` file.
4. Activate the **Use Services** check box.

This configures the license manager to run as a background service in Windows.

5. Activate the **Start Server at Power Up** check box.
This makes the service start automatically every time Windows boots up.
6. Click the **Save Service** button.
7. You can start your license service as a windows service and start it at Power Up by checking on the Start Server at Power up option.

Start/Stop/Reread

1. Navigate to the **Start/Stop/Reread** tab.
2. To start the service, click the **Start server** button.
3. After adding and signing a new feature in the license file, click the **Reread License File** button.
This ensures the service reads the file again and makes the new features available.
4. Activate the **Force Server Shutdown** check box and then click the **Stop Server** button. This action forcefully stops the license server.

Server status

To confirm that the license server is running correctly, follow these steps:

1. Navigate to the **Server Status** tab.
2. In the **Individual Daemon** text box, type ETAS.
3. Click the **Perform Status Enquiry** button.

If the server is operational, a status report similar to the example below is displayed. This output confirms that your license server is up and ready to use.

The status report also provides a detailed breakdown for each licensed feature, including the following information:

- The feature name
- The total number of licenses issued for that feature
- The total number of licenses currently in use

Server diagnosis

1. To investigate why a user might be unable to check out a license, navigate to the **Server Diags** tab.
2. Enter the name of the feature into the **Feature Name** box.
3. Click the **Perform Diagnostics** button.
After running the diagnostics, the system displays all details for that feature as they are recorded in the license file.

2.3.2 License server setup – Linux as server

2.3.2.1 Download of installation package

For the setup, you need to download the ETAS License Server package.

1. Open the ETAS license and download portal using this [link](#).
2. Click the following file: ETAS License Server V11.19.10.
The file details opens.

3. To download the package, click **Download**.

The package is downloaded and saved to the configured download folder.

2.3.2.2 Setup

1. To setup a Linux license server, create a designated folder and store all the required files in it.
2. Create a directory named `License_setup` using the following command:
`mkdir License_setup`
3. To check if files are in the folder, use the following command:
`ls`

2.3.2.3 Additional files

You need to create further files as they are not part of the server files installation package. Follow the steps below.

You need to create the following files:

- `license.lic`
- `flexlm.log`
- `etas.opt`

License file

The license file is the file to be read by the ETAS License Server and it contains the reserved word `SERVER` and `VENDOR ETAS`, together with the IP address of the server, the MAC address of the server, and a free TCP/IP port number which is required by the server to listen for license requests, in the example below 28127.



Note

Firewall rules should not apply to this port.

The information regarding features depends on the particular license and it is generated automatically in the ETAS license and download portal. You don't have impact on this and you cannot edit this part.

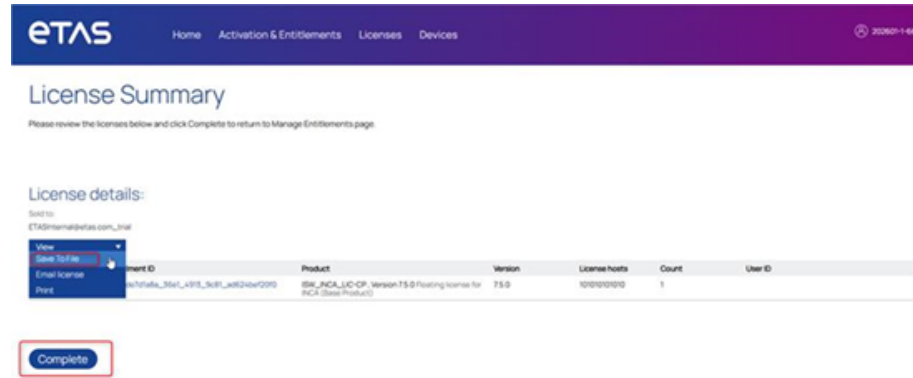
To fill in the required information into the license file

1. Find the MAC address of the server that will host the licenses.
2. Open the ETAS License & Download Portal and sign in with your credentials. For more information, see "[Access to the ETAS License and Download Portal](#)" on page 61.
3. In the **Activations & Entitlements** tab, select the Activation ID and click **Activate**.
4. Click **Next**.

5. Click the + icon.
6. Fill in the Server Mac address.
7. Click **OK**.
8. Click **Next**.

- 9.
10. Enter the fulfillment count.
11. Click **Next**.

12. Select the fulfillment and
13. to download the license file, click **Save To File**.
14. Click **Complete**.



15. Place the license file in the folder.
16. Open the downloaded license file. It already contains your server's MAC address.
17. Add the Server_Host and the TCP/IP port.

Your file looks like the following:

```
SERVER 10.165.235.72 00505686d0ca 28127
VENDOR ETAS INCREMENT INCA ETAS 7.2 permanent 100
VENDOR_STRING="ETAS Evaluation" \ ISSUED=29-mar-2007
BORROW=12752 SIGN="1529 927F 605B 6A35 540D \ A047 0F01
1CE3 9257 6A9C E0A7 DCA2 E2FF E7F0 362B 068D 81C4 \ 51E8
A905 601D 2FBC 7766 48B2 4D62 15C9 A755 DB91 1355 5DB6 \
2D46"
```

18. Save your changes.

Log file (flexlm.log)

This writes the log for each action that you.

To create the log file

1. Create the log file using the following command:

```
vi flexlm.log
```

Options file (etas.opt)

The `etas.opt` is a plain text file that gives the license administrator full control over how floating licenses are distributed. It allows you to:

- Restrict access: Define which users, hosts (computers), or groups can use a license.
- Reserve licenses: Guarantee that critical users or teams always have access to a specific license feature.
- Limit usage: Set up a maximum number of licenses that a certain user, host, or group can check out.

The below example shows, how the file works.

After opening the file, you can see the following:

The Users added to the GROUP ETAS_ALL_USERS have access to all the features that are available in the `license.lic` file.

The second block starting with `INCLUDE <feature_name> GROUP ETAS_ALL_USERS` grants the ETAS_ALL_USERS group permission to use the named feature

2.3.2.4 Starting the license server

When you completed all the steps above, you can start the license server.

To start the license server

1. Change the the mode of the `license.lic` to executable with `chmod 311` using the following command:

```
sudo chmod 311 lmgrd
```

It looks like the following:

```
[root@adubsbvmx123 License_setup]# sudo chmod 311 lmgrd
```

2. Start the license server using the following command:

```
./lmgrd -c license.lic -l flexlm.log
```

- If you want to view the server log, use the following command:
- `cat flexlm.log`

```
[root@adubsbvmx123 License_setup]# cat flexlm.log
14:07:19 (lmgrd) -----
14:07:19 (lmgrd) Please Note:
14:07:19 (lmgrd)
14:07:19 (lmgrd) This log is intended for debug purposes only.
14:07:19 (lmgrd) In order to capture accurate license
14:07:19 (lmgrd) usage data into an organized repository,
14:07:19 (lmgrd) please enable report logging. Use Flexera's
14:07:19 (lmgrd) software license administration solution,
14:07:19 (lmgrd) FlexNet Manager, to readily gain visibility
14:07:19 (lmgrd) into license usage data and to create
14:07:19 (lmgrd) insightful reports on critical information like
14:07:19 (lmgrd) license availability and usage. FlexNet Manager
14:07:19 (lmgrd) can be fully automated to run these reports on
14:07:19 (lmgrd) schedule and can be used to track license
14:07:19 (lmgrd) servers and usage across a heterogeneous
14:07:19 (lmgrd) network of servers including Windows NT, Linux
14:07:19 (lmgrd) and UNIX.
```

```
14:30:14 (lmgrd) -----
14:30:14 (lmgrd) Please Note:
14:30:14 (lmgrd)
14:30:14 (lmgrd) This log is intended for debug purposes only.
14:30:14 (lmgrd) In order to capture accurate license
14:30:14 (lmgrd) usage data into an organized repository,
14:30:14 (lmgrd) please enable report logging. Use Flexera's
14:30:14 (lmgrd) software license administration solution,
14:30:14 (lmgrd) FlexNet Manager, to readily gain visibility
14:30:14 (lmgrd) into license usage data and to create
14:30:14 (lmgrd) insightful reports on critical information like
14:30:14 (lmgrd) license availability and usage. FlexNet Manager
14:30:14 (lmgrd) can be fully automated to run these reports on
14:30:14 (lmgrd) schedule and can be used to track license
14:30:14 (lmgrd) servers and usage across a heterogeneous
14:30:14 (lmgrd) network of servers including Windows NT, Linux
14:30:14 (lmgrd) and UNIX.
14:30:14 (lmgrd) -----
14:30:14 (lmgrd) Server's System Date and Time: Mon Sep 22 2025 14:30:14 CEST
14:30:14 (lmgrd) Changing message security level from -1 to 0
14:30:14 (lmgrd) SLOG: Summary LOG statistics is enabled.
14:30:14 (lmgrd) FlexNet Licensing (v11.19.6.0 build 293152 x64_linux) started on Server_Host (linux) (9/22/2025)
14:30:14 (lmgrd) Copyright (c) 1988-2024 Flexera. All Rights Reserved.
14:30:14 (lmgrd) World Wide Web: http://www.flexerasoftware.com
14:30:14 (lmgrd) License file(s): license.lic
14:30:14 (lmgrd) lmgrd tcp-port 28127
14:30:14 (lmgrd) (@lmgrd-SLOG) =====
14:30:14 (lmgrd) (@lmgrd-SLOG) === LMGRD ===
14:30:14 (lmgrd) (@lmgrd-SLOG) Start-Date: Mon Sep 22 2025 14:30:14 CEST
14:30:14 (lmgrd) (@lmgrd-SLOG) PID: 4354
14:30:14 (lmgrd) (@lmgrd-SLOG) LMGRD Version: v11.19.6.0 build 293152 x64_linux ( build 293152 (ipv6))
14:30:14 (lmgrd) (@lmgrd-SLOG)
14:30:14 (lmgrd) (@lmgrd-SLOG) === Network Info ===
14:30:14 (lmgrd) (@lmgrd-SLOG) Listening port: 28127
14:30:14 (lmgrd) (@lmgrd-SLOG)
14:30:14 (lmgrd) (@lmgrd-SLOG) === Startup Info ===
14:30:14 (lmgrd) (@lmgrd-SLOG) Server Configuration: Single Server
14:30:14 (lmgrd) (@lmgrd-SLOG) Command-line options used at LS startup: -c license.lic -l flexlm.log
14:30:14 (lmgrd) (@lmgrd-SLOG) License file(s) used: license.lic
14:30:14 (lmgrd) (@lmgrd-SLOG) =====
14:30:14 (lmgrd) Starting vendor daemons ...
14:30:14 (lmgrd) Starting vendor daemon at port 28127
14:30:14 (lmgrd) Using vendor daemon port 28127 specified in license file
14:30:14 (lmgrd) Started ETAS (internet tcp port 28127 pid 4358)
14:30:14 (ETAS) FlexNet Licensing version v11.19.6.0 build 293152 x64_linux
14:30:14 (ETAS) SLOG: Summary LOG statistics is enabled.
14:30:14 (ETAS) SLOG: FNPLS-INTERNAL-CKPT1
14:30:14 (ETAS) SLOG: VM Status: 4
14:30:14 (ETAS) SLOG: FNPLS-INTERNAL-CKPT5
14:30:14 (ETAS) SLOG: TPM Status: 0
14:30:14 (ETAS) SLOG: FNPLS-INTERNAL-CKPT6
14:30:14 (ETAS) Server started on Server_Host for: INCA
14:30:14 (ETAS) etc etc |
```

2.3.2.5 Checking the server status and rereading files

After starting the license server, you can check the status.

To check the server status and rereading files

1. Check the server status using the following command:

```
./lmutil lmstat -a -c license.lic
```

This displays the license server status, the Vendor daemon status, and the feature details. It ensures that the license server is up and running.

```
[root@adubsbvmx123 License_setup]# ./lmutil lmstat -a -c license.lic
lmutil - Copyright (c) 1989-2024 Flexera. All Rights Reserved.
Flexible License Manager status on Mon 9/22/2025 15:00

License server status: 28127@10.165.235.72
  License file(s) on 10.165.235.72: /opt/License_setup/license.lic:

10.165.235.72: license server UP (MASTER) v11.19.6

Vendor daemon status (on 10.165.235.72):

  ETAS: UP v11.19.6
Feature usage info:

Users of INCA: (Total of 101 licenses issued; Total of 0 licenses in use)
```

Every feature has a block.

```
[root@adubsbvmx123 License_setup]# cat license.lic
SERVER 10.165.235.72 00505686d0ca 28127
VENDOR ETAS
INCREMENT INCA ETAS 7.2 permanent 100 VENDOR_STRING="ETAS Evaluation" \
  ISSUED=29-mar-2007 BORROW=12752 SIGN="1529 927F 605B 6A35 540D \
  A047 0F01 1CE3 9257 6A9C E0A7 DCA2 E2FF E7F0 362B 068D 81C4 \
  51E8 A905 601D 2FBC 7766 48B2 4D62 15C9 A755 DB91 1355 5DB6 \
  2D46"
INCREMENT INCA ETAS 7.0 permanent 1 VENDOR_STRING="ETAS Evaluation" \
  ISSUED=29-mar-2007 BORROW=12752 SIGN="0F37 D37F 80F0 ECC5 A231 \
  FD13 DA88 73B3 5B74 5520 979C 0811 A856 2D98 0F95 06D2 4C52 \
  914D 213C 98DE 9109 7866 E1A4 2923 8EE2 BC4E 6E5A D702 0F85 \
  33C3"
INCREMENT ASCET-MD ETAS 5.1 permanent 100 VENDOR_STRING="ETAS \
  Evaluation" ISSUED=29-mar-2007 BORROW=12752 SIGN="1931 DB4A \
  93B2 5B87 5059 F719 986A F6A0 984E 17C4 886C 6896 99B6 6180 \
  E42B 1679 C61B 9428 A0AE F580 080B 8624 B3CA E931 7C13 9559 \
  CD5B 3B8D C36A 479A"
INCREMENT MDA ETAS 7.2 permanent 100 VENDOR_STRING="ETAS Evaluation" \
  ISSUED=29-mar-2007 BORROW=12752 SIGN="1224 73EC 9EAB A306 26B2 \
  B4E7 AB41 7FEB F96E 6381 1425 1776 3772 1DFB 326C 1306 CDF2 \
  6AE7 2D76 D39E A7B9 A5B7 79C4 56E8 112A 32BE 2182 351D E11B \
  2DB2"
INCREMENT MDA ETAS 8.7 permanent 100 VENDOR_STRING="ETAS Evaluation" \
  ISSUED=29-mar-2007 BORROW=12752 SIGN="1ECE 227C FC68 B232 00A7 \
  9A3A 7063 DB36 E0EA F436 489F 13DF 8FF3 41C6 FB61 15D5 9FB8 \
  F27E 2DD0 A6DE 0FB3 B1FA DDE5 D03E CCD8 F688 6307 59CE 8FDD \
  E6CC"
INCREMENT MDA_BUS_TRACE ETAS 8.7 permanent 100 VENDOR_STRING="ETAS \
  Evaluation" ISSUED=29-mar-2007 BORROW=12752 SIGN="000F F7FD \
  D651 E9B8 C2BD D067 5D77 0296 4C8F 65A3 9ECB 173D 81DE 7F0F \
  84D4 1CF2 A5E4 092F F721 CAAB 4568 6019 8061 D4F6 3D5C E926 \
  8E6D 8D9F 51FF FB70"
```

Every time you make a change in the above files, reread the files so that it can be reflected in the license server.

2. Reread the files using the following command:

```
sudo ./lmutil lmreread -vendor ETAS -c license.lic
```

After executing the command, the lmreread successful message is displayed.

```
[root@adubsbvmx123 License_setup]# sudo ./lmutil lmreread -vendor ETAS -c license.lic
lmutil - Copyright (c) 1989-2024 Flexera. All Rights Reserved.
lmreread successful
```

3. Confirm the change using the following command:

```
./lmutil lmstat -a -c license.lic
```

All the feature details are as mentioned below.

```
[root@adubsbvmx123 License_setup]# ./lmutil lmstat -a -c license.lic
lmutil - Copyright (c) 1989-2024 Flexera. All Rights Reserved.
Flexible License Manager status on Mon 9/22/2025 15:00

License server status: 28127@10.165.235.72
  License file(s) on 10.165.235.72: /opt/License_setup/license.lic:

10.165.235.72: license server UP (MASTER) v11.19.6

Vendor daemon status (on 10.165.235.72):

  ETAS: UP v11.19.6
Feature usage info:

Users of INCA: (Total of 101 licenses issued; Total of 0 licenses in use)
```

2.3.2.6 Shutting down the license server

To shut down the license server

1. Shut down the license server using the following command:

```
./lmutil lmdown -c license.lic
```

```
[root@adubsbvmx123 License_setup]# ./lmutil lmdown -c license.lic
lmutil - Copyright (c) 1989-2024 Flexera. All Rights Reserved.

  Port@Host          Vendors
1) 28127@10.165.235.72 ETAS

Are you sure (y/n)? y
  1 FlexNet License Server shut down
You have mail in /var/spool/mail/root
```

2.4 License Manager Installation

This section explains how to install the License Manager on Windows and Linux.

2.4.1 License Manager Installation on Windows

2.4.1.1 Download of installation package

1. Open the ETAS license and download portal using this [link](#).
2. Click the following file: LiMa (ETAS License Manager) V1.9.x.
The file details opens.
3. To download the package, click **Download**.
The package is downloaded and saved to the configured download folder.
The installation package is provided as a ZIP file.
4. Unzip the installation package.

2.4.1.2 Installing LiMa



Note

You need administrator rights to perform the installation.

1. Navigate to the unzipped folder.
There is one folder for Windows and one folder for Linux.
2. Navigate to the windows folder.
3. To start the installation, double-click the `install_LiMa_MSIs` file.
The installation starts and a CMD window opens.
4. To finish the installation and continue, press any key in the CMD window.

2.4.1.3 Installing FNE based licenses

To install a FNE based license, follow the steps described in "[Activating and Returning Machine-Based License of Type FlexNet Embedded \(FNE\)](#)" on [page 11](#).

2.4.2 License Manager Installation on Linux

LiMa has been tested and works on:

- Ubuntu 22.04 with the Gnome window manager.

2.4.2.1 Download of installation package

For the setup, you need to download the ETAS License Server package.

1. Open the ETAS license and download portal using this [link](#).
 2. Click the following file: LiMa (ETAS License Manager) V1.9.x.
The file details opens.
 3. To download the package, click **Download**.
- ⇒ The package is downloaded and saved to the configured download folder.

2.4.2.2 Installing LiMa



Note

You need administrator rights to perform the installation.

LiMa is a 64-bit system that uses connectors to support both 32-bit and 64-bit applications.

The installation package contains one folder for Windows and one folder for Linux.

In the deb folder, you can find the following file and packages:

- `LiMa_on_Linux.txt`: Text file containing installation hints.
- `limax32_<version>_i386.deb`: 32-bit Linux connector supporting 32-bit application.
- `limax64_<version>_amd64.deb`: Package for 64-bit support.

If you already installed a previous LiMa version (< 1.8.12.61), you need to manually uninstall the version prior to install the new LiMa version.

To uninstall previous LiMa version

1. Open a new terminal.
2. To check if LiMa is already installed and to identify the package names, use the following command to list all installed packages. This allows you to find the package names needed for uninstallation.

```
apt --installed list "lima*"
```

3. Remove the installed LiMa packages using the following commands:

```
sudo apt remove limax32
```

```
sudo apt remove limax64
```



Note

An activated license is not affected by the deletion and subsequent re-installation of the software. Your license remains valid and is usable as usual after the re-installation.

To install new LiMa version (64-bit)

1. Navigate to the directory where the LiMa Debian package files are located.
 2. Open a new terminal.
 3. Install LiMaX64 using the following command:

```
sudo apt install ./limax64_<version>_amd64.deb
```
- ⇒ LiMa and all its components are installed.

2.4.2.3 LiMa Package Contents

After installing the package, the following main files are added to the system:

- /usr/share/ETAS/LiMa/x64/bin/LiMaServer.sh
- /usr/share/ETAS/LiMa/x64/bin/LiMaQt.sh

All other required packages, such as those for X11, are automatically installed via the dependencies defined within the LiMa*.deb file. The installation also includes a default configuration file (LiMa.ini) that sets up the standard folder paths. You can find it in the /etc/etas/lima/ directory.

2.4.2.4 Licenses and access rights

The following path stores the license files required for a product and its features

/usr/share/ETAS/LiMa/CommonLicensePath

You can install licenses either through the GUI or by copying the license file to this path.

**Note**

Ensure the executables at /usr/bin/LiMaServer and /usr/bin/LiMaQt.sh have execution permissions. Although the installer typically sets these rights, always double-check them.

**Note**

To enable the successful installation of license files, you need to give write access to the license directory at /usr/share/ETAS/LiMa.

2.4.2.5 Opening LiMa

1. To open LiMa, click the LiMa icon.
 If you can't find it, search for it in the search bar.
- ⇒ LiMa is opened.

After installing and opening, you find a list of features (tailored to your installed product), where features marked in red are currently unavailable. For more information, see ["Checking the License Status" on page 18](#).

2.4.2.6 Installing FNE based licenses

1. Follow the steps described in ["Opening LiMa" on the previous page](#).
2. Follow the steps described in ["To activate a machine-based license offline" on page 11](#).

2.4.3 Automated configuration during installation (Licensing.ini)

The `Licensing.ini` is a configuration file that empowers administrators to automatically preset the ETAS License Manager (LiMa) settings during the installation of an ETAS product (e.g., INCA).

This process eliminates the need for any individual to manually configure settings like license servers or borrowing options after installation. It simplifies software deployment and ensures that the software operates with the correct license settings from the start.

2.4.3.1 How the file works

- **Location:** For every product that uses electronic licensing, there is a `Licensing.ini` file in the installer product directory (e.g., `..\Packages\INCA\Licensing.ini`).
- **Format:** The file is a simple text file using the INI format. All settings belong under the `[Licensing]` section.
- **Comments:** The system ignores any line that begins with a semicolon (`;`). You can use these lines to add comments.

If the software package is already installed on the machine, the following applies:

Values specified in the `.ini` file overwrite the existing settings. For example, if the `autoborrow` function was previously deactivated manually, a corresponding entry in the `.ini` file reactivates it.

If a parameter is not explicitly set in the `.ini` file, the current setting remains unchanged. This is the case, for instance, if a new installation is performed over an existing INCA installation, and the new `.ini` file defines some, but not all, of these parameters.

2.4.3.2 Parameters

This section explains the available parameters. The system requires values to be in single quotes (e.g., `'true'`, `'60'`, `'C:\Temp'`).

LicensingInstallationMode

The parameter `LicensingInstallationMode` can have one of the following values:

- Interactive
- Automated
- None

EXAMPLE

```
LicensingInstallationMode = 'Automated'
```

**Note**

This mode is not used anymore, because during installation the interactive license installation is removed.

Interactive

If `_interactive_mode` is selected, a dialog gets opened in the late phase of a product installation where you can browse and select a license.

**Note**

This interactive setting leads to an additional user interaction during the product installation. Use well-considered only!

In case of a silent installation (either `/s` or `/basic` or corresponding MSI parameter setting), the interactive mode is suppressed (i.e. no dialog is shown).

Automated

If automated mode is selected, further parameters will be evaluated and processed. If you do not choose the automated mode, these parameters have no effect:

- `LicenseFileName`
- `GeneralLicense`
- `CustomerName`
- `LicenseSerialNumber`
- `LicensesToBorrow`
- `BorrowExpiryMode`
- `BorrowExpiryDate`
- `BorrowExpiryInterval`
- `BorrowAutomaticExtensionInterval`
- `ExecuteBorrowAutomaticExtensionInterval`
- `ImmediateBorrow`

ImmediateBorrow

`ImmediateBorrow` sets the value to `true` or `false`.

EXAMPLE

```
ImmediateBorrow = 'true'
```

LicenseFileName

LicenseFileName specifies the path to a license file (.lic). The installer automatically copies this file to the local machine during the installation process.

EXAMPLE

```
LicenseFileName = 'D:\Licences\MyLicences.lic'
```

LicensesToBorrow

LicensesToBorrow defines a list of licenses (features) for automatic borrowing. Separate the feature names with spaces.

EXAMPLE

```
LicensesToBorrow = 'INCA ASCET_MD'
```

BorrowExpiryMode

BorrowExpiryMode triggers a one-time borrow after installation. The way the end date of a borrow is calculated is defined by the value Interval or Date.

EXAMPLE

BorrowExpiryMode = 'Interval' (If you use Interval as the value, you need to set the option BorrowExpiryInterval. For more information, see ["BorrowExpiryInterval" below.](#))

EXAMPLE

BorrowExpiryMode = 'Date' (If you use Date as the value, you need to set the option BorrowExpiryDate. For more information, see ["BorrowExpiryDate" on the next page.](#))

BorrowExpiryInterval

Defines the number of days for a single execution of borrowing. Only valid if BorrowExpiryMode = 'Interval'.

EXAMPLE

```
BorrowExpiryInterval = '70'
```

BorrowExpiryDate

Defines the end date of the borrowing action. Only valid if `BorrowExpiryMode = 'Date'`. Format is 'yyyy-mm-dd'.

EXAMPLE

```
BorrowExpiryDate = '2008-11-25'
```

BorrowAutomaticExtensionInterval

`BorrowAutomaticExtensionInterval` specifies the number of days for the borrowing period (e.g., 60 days), if autoborrow is active (see "[Auto-borrowActive](#)" below). In the LiMa interface, this corresponds to the **Borrow Interval (in Days)** column.

EXAMPLE

```
BorrowAutomaticExtensionInterval = '60'
```

The value 60 extends the borrowing so the end date is in today + 60 days.

ExecuteBorrowAutomaticExtensionInterval

`ExecuteBorrowAutomaticExtensionInterval` determines how many days before the borrowing period expires the system attempts to automatically renew the license for another interval, if autoborrow is active (see "[Auto-borrowActive](#)" below). In the LiMa interface, this corresponds to the **Renewal Period (in Days)** column.

EXAMPLE

```
ExecuteBorrowAutomaticExtensionInterval = '30'
```

AutoborrowActive

`AutoborrowActive` defines if the autoborrow mode is active ('true') or inactive ('false'). The values defined in `BorrowAutomaticExtensionInterval` and `ExecuteBorrowAutomaticExtensionInterval` specify the detailed behavior.

AutoborrowCutterActive

In case the Flexera License server forgets borrowed entries, the so called cutter is raised in interactive mode. A pop up dialog occurs, where you are asked if you want to remove the borrow item from registry. In case of an automated mode like autoborrow, this interactive mode is not wanted.

To handle this situation automatically, set `AutoborrowCutterActive = 'true'` in the `Licensing.ini` file.

When this parameter is active, the system will automatically handle the specific license server error (-124). Instead of displaying a pop-up, it silently removes the invalid borrow entry from the registry in the background. This cleanup allows the autoborrow process to proceed without interruption and successfully borrow a new license.

CustomLicenseFolder

`CustomLicenseFolder` defines a custom folder where LiMa searches for license files.

EXAMPLE

```
CustomLicenseFolder = 'C:\My_Licenses'
```

Ports

The `LiMaServer.exe` process listens for connections on port 32200 by default. Because license borrowing is a user-specific action, the system launches a separate LiMaServer instance for each active account rather than running it as a single system service.

To support multiple concurrent sessions on the same machine, for example, when a build agent like Jenkins runs in parallel with an interactive desktop session, you can define a range of available ports.

During Installation, specify the ports in the `Licensing.ini` file using a space-separated list:

EXAMPLE

```
Ports = '32200 32201 32202'
```

If additional ports are not explicitly defined, LiMa will automatically search for the next available port for any subsequent instances.

You can modify the port configuration directly in the Windows Registry after installation.

1. Open the Windows Registry.
2. Navigate to the LiMa key under `Wow6432Node`.
3. Create or modify the string value named `Ports`.
4. Enter the port numbers separated by a semicolon (e.g., `32200;32201;32202`).

ActivationIdentifiers

`ActivationIdentifiers` specifies the license activation during the installation for licenses based on FlexNet Embedded.

To activate multiple licenses simultaneously, provide a space-separated list of their identifiers.

EXAMPLE

```
ActivationIdentifiers = 'aaaa-0000-1111-2222-bbbb-0'
```

ActivationMode

ActivationMode triggers an automatic online activation during installation.

**Note**

For online activation to succeed, you need a working internet connection with access to the ETAS license portal.

EXAMPLE

```
ActivationMode='online'
```

ActivationPath

ActivationPath defines the default folder location for storing the request and response bin files.

EXAMPLE

```
ActivationPath = 'C:\temp\lima_activation'
```

2.4.3.3 LiMaOption.exe tool

While the `Licensing.ini` file is used to configure settings during product installation, the `LiMaOption.exe` command-line tool allows you to modify these same settings after installation. Since LiMa version 1.8.6, you can configure the values from the option dialog via this tool or via entries in the `Licensing.ini` file.

Using the LiMaOption Tool

You can find the tool in the bin folder of the LiMa installation directory:

```
C:\Program Files\Common Files\ETAS\Licensing\bin\
```

1. For further details, open a command prompt in that directory and execute the following command:

```
LiMaOption.exe --help
```

The allowed options are displayed.

Option	Explanation
--help	Show help
--show	Show current status of all properties
--show_migration arg	Show and make migration from FNP to FNE items
--autoborrow_cut- ter_active arg	Value '0' off, value '1' on
--checkout_ retries arg	Value '0' to '3' for possible retries during checkout
--refresh_at_ startup arg	Value '0' off, value '1' on
--remaining_ days_visible arg	Value '0' off, value '1' on
--skip_on_ hostdown arg	Value '0' off, value '1' on
--remember_win- dows arg	Value '0' off, value '1' on
--offline_mode arg	Value '0' off, value '1' on
--autoborrow_vis- ible arg	Value '0' off, value '1' on
--operating_ver- sion_visible arg	Value '0' off, value '1' on
--reparse_ descriptions arg	Value '0' off, value '1' on
--policy_type_ visible arg	Value '0' off, value '1' on
--serial_number_ visible arg	Value '0' off, value '1' on
--offline_mode_ end_date arg	Value like YYYY-MM-DD
--upgrade_mode arg	Value like 'off', 'once', 'always'

2.4.3.4 Example of Licensing.ini file

The installer needs the [Licensing] section header to correctly identify and apply the settings within the Licensing.ini file.

While it is acceptable for the section to contain no configuration parameters, the file is considered invalid without this header line enclosed in square brackets.

```
[Licensing]
; format: absolute file path to license file
;LicenseFileName = 'c:\temp\somelicensefilename.lic'
; format: LicenseName1 LicenseName2 use blanks to separate licenses
;LicensesToBorrow = 'INCA'
; format: Modes 'Interval' and 'Date' are possible
;BorrowExpiryMode = 'Interval'
; format: yyyy-mm-dd
;BorrowExpiryDate = '2022-02-10'
; format: number of days
;BorrowExpiryInterval = '100'
; format: number of days
;BorrowAutomaticExtensionInterval = '100'
; format: number of days when automatic borrow extension is performed.
;ExecuteBorrowAutomaticExtensionInterval = '1'
; format: a boolean string 'true' or 'false' defines if auto borrow
extension is active
;AutoborrowActive = 'true'
; format: a list of ports separated by blanks, an empty string resets
to one single port 32200
;Ports = '32200 32201 32202'
; format: a list of activation identifiers separated by blanks
;ActivationIdentifiers='abcd efgh ijkl'
; format: use this flag to enable automatic online activation
;ActivationMode='online'
; format: an absolute path to the location, where request and
response bin files are stored
;ActivationPath='an absolute path'
; format: a boolean value which defines if an autoborrow task shall
cut invalid value of borrow information automatically
;AutoborrowCutterActive = 'true'
; format: a number out of 0, 1, 2, 3 ,which defines the amount of
retries during checkout
;CheckoutRetries = '3'
; format: a boolean which defines the refresh/update of all features
during GUI launch
;RefreshAtStartup = 'true'
; format: a boolean value which defines if the remaining day inform-
ation column is visible
;RemainingDaysVisible = 'false'; format: a boolean value which
defines the skip of further checks in case the license server is down
;SkipOnHostdown = 'true'
; format: a boolean value which defines if the geometry of the LiMa
GUI is preserved
;RememberWindows = 'false'
; format: a boolean value which defines if the offline mode is act-
ive, this has to be used in conjunction with the parameter 'Off-
lineModeEndDate'
;OnOfflineMode = 'false'
; format: a boolean value which defines if autoborrow related columns
are visible
;AutoborrowVisible = 'false'
; format: a boolean value which defines if the operating version of a
```

```

feature is visible
;OperatingVersionVisible = 'false'
; format: a boolean value which defines if the license description
files (xml files) are reread during F5 (update/refresh inside Gui)
;ReparseDescriptions = 'false'
; format: a boolean value which defines if the column related to the
policy type (e.g. Flexnet Embedded (FNE), Flexnet Publisher (FNP)) is
visible
;PolicyTypeVisible = 'false'
; format: a boolean value which defines if the serial num-
ber/activation id is shown in a column
;SerialNumberVisible = 'false'
; format: the offline mode end date in the form YYYY-MM-DD
;OfflineModeEndDate = '2022-02-10'

```

2.5 UI for remote license management

Remote activation allows you to activate licenses directly on a remote target device without having to run the activation software locally on that machine.

The activation process is divided into two sequential phases:

- Establishing a connection to the target device
- Transferring and activating the license

The screenshot shows the License Manager GUI. At the top is a 'Dialog' window with fields for 'Device ID' (192.168.56.49) and 'Device Type' (2000), and a 'Connect' button. Below this is the 'Activation' section. It shows 'FNO Connection: ONLINE' with a green status indicator. There are two radio buttons: 'Online' and 'Offline'. The 'Offline' option is selected. Under 'Offline', there are three steps: Step 1 (Enter an Activation ID and generate a request file from the device), Step 2 (Take the request file to a computer with internet access, upload to the licensing portal, download the response file, and bring it back), and Step 3 (Select the response file and upload it to the device). There are buttons for 'Synchronize', 'Activate', 'Return', 'Generate request file', and 'Upload to device'. At the bottom, there is a status bar showing 'FNO - Connection OK' twice.

Before you can perform any activation, you must establish an active connection to your target device.

1. Enter the IP Address: Type the IP address of the remote target device into the input field in the top section.
2. Specify the Port: Enter the corresponding port required for the connection.
3. Establish Connection: Click the **Connect** button.

2.5.1 Performing the remote activation

Once connected, you can choose between Online or Offline Activation. These workflows function exactly like regular local activations, except that the final license is automatically sent to and applied on the connected remote device.

2.5.1.1 Online activation

To activate the license directly through the licensing server, select **Online**.

Synchronize: Synchronizes licenses that have already been assigned to the device.

Activation ID: Enter the activation ID provided with your license.

Activate: Activates the license using the entered activation ID.

Return: Returns the current license to the licensing server so that it can be activated on another device.

2.5.1.2 Offline activation

To activate a license offline:

1. Select **Offline**.
2. Enter the Activation ID.
3. Select **Generate request file**.
4. Transfer the request file to a computer with internet access.
5. Upload the request file to the licensing portal and download the response file.
6. Transfer the response file back to the offline device.
7. Select the response file and upload it.
8. To complete the activation, select **Upload to device**.

2.5.1.3 Connection status

The connection indicator shows the connection status to the licensing server.

ONLINE: The device is connected to the licensing server.

OFFLINE: The device is not connected to the licensing server. To activate a license without an internet connection, use the offline activation procedure.

2.6 Managing ETAS Licenses via CMD

This help informs you how to manage ETAS licenses via command prompt. With the application LiMaBorrow, you will be able to borrow, return, autoborrow, and backup licenses needed for working with ETAS programs.

For more information, in the Windows Start menu folder **E > ETAS** start the ETAS License Manager and press F1.

2.6.1 Managing Licenses via Command Prompt

With the application LiMaBorrow you can borrow, return, autoborrow, and backup licenses via the command prompt (CMD).

Make sure the file LiMaBorrow.exe is located in the following folder:

<Drive>:\Program Files (x86)\Common Files\ETAS\Licensing\bin\

You can run the LiMaBorrow.exe via the command prompt, a script file, or a batch file.

To manage license conditions via CMD

1. Close all open ETAS programs.
2. Open a **Command Prompt** window (cmd.exe).
3. Change to the following directory:

C:\Program Files (x86)\CommonFiles\ETAS\Licensing\bin\

4. In the command line, enter LiMaBorrow X Y.

For X, choose one of the following commands:

- borrow
- return
- autoborrow
- backup or restore

For Y, choose command options listed in ["Command Options" on the next page](#).

5. To display the help information, enter LiMaBorrow --help.

For more information, see ["Examples" below](#).

2.6.2 Examples

Examples for command borrow

If you enter the following command combination into the command line, you set the license options as described in the table below.

```
LiMaBorrow borrow --feature INCA~7.2 --date 22-oct-2019 --
state C:\\states\\state.xml
```

Set Option	Description
LiMaBorrow borrow	The license is borrowed from the server for offline usage of the ETAS software.
--feature INCA~7.2	You borrowed the ETAS software INCA Version 7.2.
--date 22-oct-2019	The license is valid until October 22, 2019.
--state C:\\states\\state.xml	In this file, the license options are stored.
--all	You borrowed all INCA features.

Examples for command return

If you enter the following command combination into the command line, you set the license options as described in the table below.

LiMaBorrow return --all

Set Option	Description
LiMaBorrow return	You return the borrowed license to the server before the expiration date.
--all	You return all INCA features before the expiration date.

2.6.3 Command Options

To manage your licenses, the following commands are available:

- borrow
- return
- autoborrow
- backup or restore
- cut

Depending on which command you execute, different options can be set. The following tables give an overview of the different options for the individual commands.

General Command Interface

Option	Description
--command arg	The command
--subargs arg	Arguments for command
--help	Help information
--non_silent	In case of an error, a message box appears

Command borrow

Option	Description
--state arg	State file
--ini arg	ini file
--feature arg	Borrow a feature Example: --feature INCA~7.2 The tilde separates name and version.
--product arg	Borrow all features of a product Example: --product INCA
--all	Borrow all features
--date arg	Borrow end date Example: 11-nov-2019

Command return

Option	Description
--state arg	State file
--feature arg	Early return of a feature Example: --feature INCA~7.2
--product arg	Early return of all features of a product Example: --product INCA
--all	Early return of all features

Command autoborrow

Option	Description
<code>--state arg</code>	State file
<code>--ini arg</code>	ini file To process settings via <code>licensing.ini</code> file
<code>--feature arg</code>	Set autoborrow values for a feature Example: <code>--feature INCA~7.2</code> The tilde separates name and version.
<code>--product arg</code>	Set autoborrow values for all features of a product Example: <code>--product INCA</code>
<code>--all</code>	Set autoborrow values for all features
<code>--active arg</code>	Autoborrow active flag Flag has to be 0 or 1.
<code>--intervall arg</code>	Autoborrow interval value
<code>--renewal arg</code>	Autoborrow renewal value
<code>--standalone</code>	use no lima server process

Command backup or restore

Option	Description
<code>--state arg</code>	State file

Command cut

Option	Description
<code>--feature arg</code>	cut feature(s), e.g. like <code>--feature INCA~7.2</code> from the registry, option can be used multiple time
<code>--all</code>	cut all features from the registry
<code>--yes</code>	confirm cutting

2.6.4 Error Codes

Errors may occur while you are running the LiMaBorrow application.

To display error messages

1. In the <Drive>:\..\LogFiles\LiMa folder, open the files LiMaBorrow_XXX.txt and LiMaServer_XXX.txt.

or

Run the script or batch command with `echo %ERRORLEVEL%`.

The following table shows a list of occurring error messages:

Error Code	Error Message
0	LIMA_BORROW_EC_OK
1	LIMA_BORROW_EC_FILE_MISSING
2	LIMA_BORROW_EC_EXCEPTION_OCCURED
3	LIMA_BOORROW_EC_API_NOT_FOUND
4	LIMA_BORROW_EC_QUERY_BORROW_CACHE_FAILED
5	LIMA_BORROW_EC_BORROW_CACHE_CORRUPT
6	LIMA_BORROW_EC_MIGRATE_ON_GOING
7	LIMA_BORROW_EC_FAIL
8	LIMA_BORROW_EC_DATE_MISSING
9	LIMA_BORROW_EC_COMMAND_MISSING
10	LIMA_BORROW_EC_MULTIPLE_INSTANCES
11	LIMA_BORROW_EC_AUTOBORROW_MISSING

2.7 Troubleshooting

[2.7.1 Check-Out is Too Slow](#)

[2.7.2 Borrowed License Cannot Be Returned](#)

[2.7.3 Generic Communication Error](#)

FAQ

For further information about FlexNet Embedded technology and the ETAS License and Download Portal, see our FAQ on the ETAS Download Center under [ETAS License Management FAQ](#).

2.7.1 Check-Out is Too Slow

The license check-out may take a few minutes, especially when server-based licenses are used.

Cause 1

If the server is currently unavailable, this will lead to a timeout.

Solution 1

To solve the problem, you can cancel the check-out.

Proceed as follows:

1. In the **ETAS License Manager** window, select the license for which you want to cancel the check-out.
2. In the context menu, select **Cancel Checkout**.

The check-out for this license is skipped.

Cause 2

Server-based licenses are checked out before machine-based licenses.

Solution 2

To solve the problem, you can influence the order of the check-out.

Proceed as follows:

1. In the **Tools** menu, select **Display license path**.
2. Click **Open Path in Explorer**.
All licenses are shown.
3. Rename all machine-based licenses by adding a "0" in front of the file name.

For the next check-out, the machine-based licenses are prioritized.

2.7.2 Borrowed License Cannot Be Returned

If a borrowed license cannot be returned, a warning message is displayed.

Cause

The borrow information has been lost on the license server because the license server configuration has been changed or updated.

Solution

To solve the problem, you have to make the information on your computer consistent with the information on the license server by removing the borrow information from your computer. Proceed as follows:

1. Verify whether the borrow information has been lost on the license server due to changes in the license server configuration or whether the license server might be unavailable only temporarily. Contact your system administrator for precise information.

2. If the license server is unavailable only temporarily:

Wait until the license server is available to return the borrowed license.



CAUTION

Never remove the borrow information from your computer if the borrow information still exists on the license server. This might decrease permanently the number of available licenses on the server.

or

If the borrow information has been lost on the license server due to changes in the license server configuration:

Confirm the displayed message box with **Yes**.

The ETAS License Manager will safely remove the borrow information from your system.

If you want to continue using the ETAS software, you can once again borrow a license from the license server as usual.

2.7.3 Generic Communication Error

In some cases, the communication to the ETAS server fails. The License Manager reports a data transfer failure or a communication error.

Cause

There are communication issues, for example, internet connection is blocked by your local IT department).

Solution

Proceed as follows:

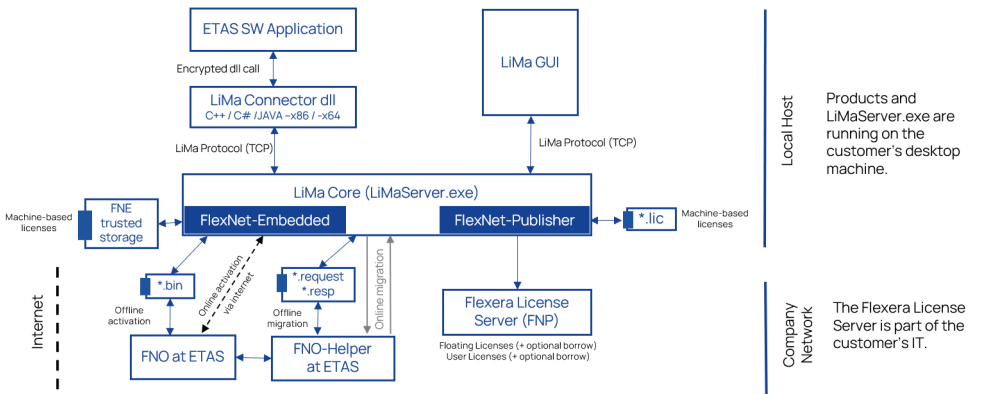
1. Check your proxy settings and adjust them accordingly, see "[Setting User Options](#)" on page 21.
2. Click **Device** > **Settings**.
3. Click **Test Connection** to verify the connection. A message explaining the possible issue appears.

2.8 Technical Information

This technical information is related to the ETAS License Manager (LiMa) which is installed as singleton component with all licensed ETAS software applications.

2.8.1 ETAS License Manager Architecture

The ETAS License Manager (LiMa) has one single LiMa Core (LiMaServer.exe) which is built as x86 C++ component and allows to connect multiple ETAS applications in different platforms to communicate using TCP/IP via local host:



2.8.2 Required Firewall Extensions

The firewall used on the client PC must be configured in such a way, that it does not block the communication between LiMa Core and its clients.
The ETAS License Manager (LiMa) installer is extending the firewall by default with following rules to ensure the communication on local host:

ETAS Licensing Framework Vx.y.z.build	Inbound rule	TCP	Domain
ETAS Licensing Framework Vx.y.z.build	Inbound rule	UDP	Domain

By default the LiMaServer.exe will open the listening port 32200, but this can be changed by the customer, e.g. if multiple users shall get access with separate ports.

3 User guide for License and Download Portal

This section contains all relevant information regarding the License and Download Portal (FNO).

3.1 About ETAS License and Download Portal

This is the guide to the ETAS License and Download Portal. This document is an introduction to terminology and concepts, and a basic primer on tasks you can perform with the portal. It is meant for use by software customers to allow them to track and manage their License assets and Downloads.

Technical Support is available to customers with current maintenance contracts. Please include the following information with your inquiry:

- Product name and version
- Activation ID
- Operating System name and version

Contact the support center for your area:

<https://www.etas.com/ww/en/support-training/support-hotlines/>

You can use the ETAS License and Download Portal to create and manage licenses and to download software packages:

- Generation of fulfillments and tracking of software licenses
- Transparency of license terms, such as maintenance expiry dates
- Flexible login capacity
- Download of purchased software packages, Service Packs, Upgrades and Hotfixes
- Support for several license-related transactions, both before and after license generation (activation, return, rehost, consolidation, viewing and printing entitlements)

3.2 Working with ETAS License and Download Portal

3.2.1 Access to the ETAS License and Download Portal

3.2.1.1 Access to manage your ETAS Licenses

ETAS License & Download Portal

Login

- ☒ Access to ETAS Downloadportal via your Email address
- ☐ To maintain your Entitlement ID
- ☐ To maintain your Activation ID

Language

English (United States)



Log in

User Management for Download ⓘ

You want to create a user based on an existing Entitlement ID/Activation ID for your company or want to perform an extension for existing user based on Entitlement ID/Activation ID? Please click [here](#).

Product Evaluation ⓘ

You want to evaluate an ETAS product. Please click [here](#).

Access to the Downloadarea without customeraccount ⓘ

You need an access to free ETAS Downloads without customeraccount (e.g. Whitepaper, Known Issue Reports, free of charge tools)? Please click [here](#).

Manage your Local License Server ⓘ

You need to manage the Users or update you License file of Local license Server ? Please click [here](#).

There are several options to enter the portal <https://license.etas.com/>:

With email address (SSO via ETAS ID)

To enhance security and streamline the login experience, the FNO portal has been transitioned to a new Single Sign-On (SSO) system. This upgrade provides you with a more secure and efficient way to access your account. For more information, see "[SSO via ETAS ID](#)" below.

You will be enabled to see and manage all Activations in all the Entitlements assigned to your account (e.g. for a tool coordinator responsible for several Entitlements).

With Entitlement ID

Will allow you to see and manage all Activations in the entered Entitlement (e.g. for a company with only one Entitlement).

With Activation ID

Will allow you to see and manage the entered Activation (e.g. for a user who is given the information by a tool coordinator to allow him/her to activate one license).

You are of course, free to use whichever method suits you best at the moment!

To enable also the Download functions in the Portal, a personal user account is needed. For more information, see "[Registration](#)" below.

3.2.1.2 Enable Downloads in the Portal

- With a valid ETAS FNO Customer Portal User with Password, you can extend your User to access also the Downloads in the Portal (valid Activation ID or Entitlement ID is needed).
- If you do not have a valid user account and want to evaluate ETAS Software you can use the Product Evaluation link to register yourself and select an available Evaluation Product.
- If you only need access to the ETAS Non-Public Downloads you can use the Access to Non-Public Downloads to register yourself.
- If you are already registered for Evaluations or for Downloads you are automatically also enabled to access the Non-Public Downloads.

3.2.2 Registration

3.2.2.1 SSO via ETAS ID

To simplify your access to all ETAS services, the ETAS ID becomes your new, central login method. You need only a single account to access all ETAS websites and applications.

For new users

If you have not used an ETAS account before (e.g., for the FNO portal), you need to ask perform a one-time registration for your new ETAS ID.

For existing FNO users

If you already have an FNO account, a one-time migration of your account is required to ensure a seamless transition. This action is necessary to create your new ETAS ID.

**Note**

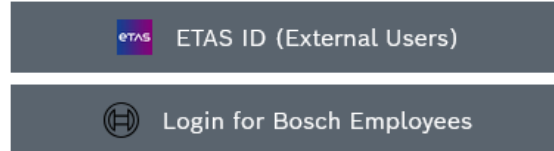
During the migration process, you need to use the same email address that you previously used for the FNO portal. This is crucial for automatically linking your existing account and data to your new ETAS ID.

1. Go to the login page.

There are two possibilities to login.

- ETAS ID (External Users): This option is for all external users.
- Login for Bosch Employees: This option is for all Bosch employees.

Login Options



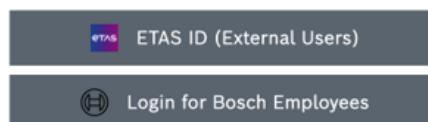
Login for external users

1. Click **ETAS ID (External Users)**.

English ▼

ETAS Login Options

FNO Portal user?
Please see this [Migration Guide](#).



You are forwarded to the ETAS ID login form.

2. Click **Register here**.

English ▾

Log in with ETAS ID (test)

Email

Password

Sign In

Forgot Password?

Or sign in with

Login For Bosch Employees

New user? [Register here](#)

You are prompted to start a one-time account registration.

3. Fill in the required information.
4. Click **Register here**.

English ▾

* Required fields

Register

Email *

Password *

Confirm password *

First name *

Last name *

Country ▾

Company *

« Back to Login

Register here

5. You receive an email with instructions to verify the email address.

Email verification

An email with instructions to verify your email address has been sent to your address <your email address>

Haven't received a verification code in your email?
[Click here](#) to re-send the email.

6. Follow the steps described in the email.
 Your email address is verified.

Email address verified

Your email address has been verified already.

« Back to Application

You are forwarded back to the ETAS License & Download Portal.

Login for Bosch employees

1. If you are a Bosch Employee, click **Login for Bosch Employees**.
You are forwarded to the ETAS License & Download Portal.
2. Optional: Select the language, you want to log in with.
3. Select **Access to ETAS Downloadportal via your Email address**.
4. Click **Log in**.

You are logged in to the License & Download Portal.

User account settings

You can change your password at any time through your account settings.

For any changes to your profile information, such as your name, you need to contact our support team for assistance. Self-service profile changes are not available at this time.

3.2.2.2 User Management for Download

With the User Management you can create a user based on an existing Entitlement ID/Activation ID for your company or you can perform an extension for existing user based on Entitlement ID/Activation ID.

User Management

Do you already have a user account and want to perform an extension based on existing Entitlement ID/Activation ID? [Login](#)

Contact Information

Create a new user based on an existing Entitlement ID/Activation ID for your company by completing the form below. If you don't know the Entitlement ID or Activation ID, please select 'Unknown ID'. We pay strict attention to the privacy of your data (see [Privacy Policy](#)).

Type of ID	☒ Activation ID ☐ Entitlement ID ☐ Unknown ID
Activation Entitlement ID ^①	
First name	
Last name	
E-mail, business ^①	
Phone (optional)	
Company	
Street & house number	
City	
Postal code	
State (optional)	
Country or Region	- Please select your country or region - ▼

Privacy policy and further information

☐ [Privacy Policy](#) read and agreed.

Next

1. To start the process for user management, navigate to **User Management for Download License**.
2. To start the process click **here** at the end of the dialog or **User Management for Download License**.
3. Fill in all the fields in the **Contact Information** section. Optional fields are marked with (optional).
4. To finalize this process, click **Next**.
The registration is always completed with a message.

**Note**

The user credentials will be sent to the e-mail address specified here. Only business e-mail addresses are allowed.

If the user account has been created, you will receive the corresponding message and an e-mail with the login information will be sent to the specified e-mail address.

If you do not receive an e-mail, please check:

- The provided e-mail address
- Your spam folder

If these are not the causes, please contact our [support](#).

3.2.2.3 Product Evaluation

With the Product Evaluation it is possible to register for evaluation of an ETAS Software Product.

If the software you want to evaluate already uses FlexNet embedded, you will receive an Activation ID which you can use with ETAS License Manager on your PC to activate your license.

If the software is based on FlexNet Publisher, you will be asked to enter the MAC-address of your computer, otherwise you will not see this field.

User Management

Do you already have a user account and want to perform an extension based on existing Entitlement ID/Activation ID? [Login](#)

Contact Information

Create a new user based on an existing Entitlement ID/Activation ID for your company by completing the form below. If you don't know the Entitlement ID or Activation ID, please select 'Unknown ID'. We pay strict attention to the privacy of your data (see [Privacy Policy](#)).

Type of ID	☒ Activation ID ☐ Entitlement ID ☐ Unknown ID
Activation Entitlement ID ^①	
First name	
Last name	
E-mail, business ^①	
Phone (optional)	
Company	
Street & house number	
City	
Postal code	
State (optional)	
Country or Region	- Please select your country or region - ▼

Privacy policy and further information

☐ [Privacy Policy](#) read and agreed.

Next

1. To start the process for user management, navigate to **Product Evaluation**.
2. Click **here** at the end of the dialog or **Product Evaluation** to start the process.
3. Select the product you would like to evaluate and click **Next**.
4. Fill in all the fields in the **Contact Information** section.

Optional fields are marked with (optional).

5. Select **Next** to finalize this process.

The registration is always completed with a message.



Note

The user credentials will be sent to the e-mail address specified here. Only business e-mail addresses are allowed.

If your evaluation period is over and you decided the order a product, you can reuse your user by moving that to the new customer account through the following link:

<https://license.etas.com/LandingPage/html/moveuserlogin.jsp>

3.2.2.4 Access to the Download Area without Customer Account

With the Access to the Download Area without Customer Account you can access to free ETAS Downloads without Customer Account (e.g. Whitepaper, Known Issue Reports, free of charge tools).

User Management

Do you already have a user account and want to perform an extension based on existing Entitlement ID/Activation ID? [Login](#)

Contact Information

Create a new user based on an existing Entitlement ID/Activation ID for your company by completing the form below. If you don't know the Entitlement ID or Activation ID, please select 'Unknown ID'. We pay strict attention to the privacy of your data (see [Privacy Policy](#)).

Type of ID	☒ Activation ID ☐ Entitlement ID ☐ Unknown ID
Activation Entitlement ID ^①	
First name	
Last name	
E-mail, business ^①	
Phone (optional)	
Company	
Street & house number	
City	
Postal code	
State (optional)	
Country or Region	- Please select your country or region - ▼

Privacy policy and further information

☐ [Privacy Policy](#) read and agreed.

Next

1. To start the process for user management, navigate to **Access to the Download Area without Customer Account**.
2. Click **here** at the end of the dialog or **Access to the Download Area without Customer Account** to start the process.³
3. Fill in all the fields in the **Contact Information** section. Optional fields are marked with (optional).
4. Select **Next** to finalize this process.
The registration is always completed with a message.

**Note**

The user credentials will be sent to the e-mail address specified here. Only business e-mail addresses are allowed.

If you already have a user account, please skip the entry of your contact data with **Login**, at the top of the **Contact Information** section.

3.2.2.5 Manage your Local License Server

For managing your local license server please login to access management options.

Manage your Local License Server

Please login to access management options

Please request permission via mail to [ETAS Sales](#) or [ETAS Support](#)

Username

Password

[Forgot Password?](#) [Register](#)

Login

The following options are available to you in addition to logging in:

- Reset your Password
 - Register a new User
- For more information, see "[User Management for Download](#)" on page 66.

3.2.3 License Technology

When viewing licenses or entitlements in the [ETAS Licensing Portal](#) it is important to distinguish between the license types. There you find in the column **Type** an icon indicating the technology used.

Icon	Technology	Information
	FlexNet Publisher (FNP)	– The FNP license is activated using the activation ID in the ETAS Licensing Portal. – FNP licenses are saved in LIC files which are deployed either onto the target PC or onto a license server. The license file itself contains the license information in readable format.
	FlexNet Embedded (FNE)	– The FNE license is activated using the activation ID in the ETAS License Manager tool on the target PC. – FNE licenses are not stored in readable files but in a so called "trusted storage". This is a data storage on the customer device which is secured against manipulation or copying using additional measures. Therefore ETAS License Manager offers either online activation or offline activation.

Getting a License

Before you can start using ETAS software that underlies license management, you need a license. You can receive the license in one of the following ways:

- from your local tool administrator
- from an ETAS account manager
- via a self-service portal on the ETAS internet page at <http://www.etas.com/support/licensing>

License Types

The following license types are available:

License Type	Storage	Information
Machine-based	local	The license is valid only on a specific PC and linked to hardware specific IDs (e.g. MAC address of the Ethernet adapter).
User-named	server-based	The license is linked to the MAC address of the server and to the user name with which the user is registered in the network.
Floating	server-based	Several users share a limited number of licenses.

If server-based licenses are used, you can borrow a license for a certain period of time to use it offline, i.e. without being connected to the license server or to a network.

License Technology change

- ETAS has used FlexNet Publisher technology for many years. From September 2020 onwards, FlexNet Embedded will be introduced. New software releases will only be shipped with FlexNet Embedded technology implemented in future.
- FlexNet Publisher license technology will be further supported according to the terms and conditions for existing software versions.

License Right Changes

- ETAS FNP License rights are stored in text license files.
- ETAS FNE License rights are stored in in Trusted Storage.

End User Interaction Changes

- With FlexNet Publisher, an end user is expected to run the license activation utility. Typically this involves typing in an activation code, installing a license text file or interacting with an application's installer.
- With FlexNet Embedded, there is no expectation of a user interacting with a user interface. The core toolkit makes no assumptions about a command prompt or window manager being available. A device can power up, possibly contacting a back-office server, and checks its license rights to determine the behavior, functionality, capacity, etc., that the device supports.

3.3 Managing Entitlements FlexNet Publisher (FNP)

3.3.1 View and Manage Activations

The view **Activations and Entitlements** will give you an overview of all line items that still have copies left for activation.

[List of your Entitlements](#)

Your licenses and entitlements are listed here. You can sort this list by clicking on a column header.

View		Filter	Export																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Under the drop-down **List Entitlements**, you get a list with following details:

- Type
- Activation ID
- Entitlement ID
- Product
- License model
- Original copies
- Available quantity
- Total quantity
- Maintenance
- Downloads

More detailed information on a position can be displayed by clicking on any **Activation ID**.



Note

This view will only show line items that can be activated!

- No Activation IDs for non-digitally licensed products shown
- No Activation IDs for activated line items shown

If you want to see all activations go to **Advanced Search** and set parameter for remaining copies to **any**.

3.3.2 Activate Licenses (Generate a License Key)

1. To start the process for activation Licenses, navigate to **Activation & Entitlements**.
2. Click **List Entitlements**.
3. Select an Activation ID and click **Activate**.

4. Enter data on start date and correct address data if required.
5. Configure hosts
 - Machine named license: a MAC address has to be provided.
 - User named license: a server host or server triad as well as a user name of the client ID have to be provided.
 - Concurrent license: a server host or server triad has to be provided.
6. For concurrent licenses, you are now asked to define how many of the licenses you wish to activate (for Machine named and User named licenses, there is only one license per activation).

If you activate several licenses in one step for the same machine/user you can also choose to consolidate the license into one file: (e.g. first the main product and afterwards an add-on for the same user)

1. Navigate to **Activation & Entitlements**.
2. Click **List Entitlements**.
3. Select more than one Activation ID and activate Select **Yes** when asked whether you want to consolidate the generated licenses.
4. Complete activation as described before.



Note

Do not select a start date in the future if you use the license immediately!

3.3.3 License Lifecycle (FNP)

Licenses have a lifecycle that extends beyond activation and fulfillment (license delivery). Different events at your end (e.g. purchase of new machines, crash of a hard disc...) can affect the lifecycle. The following kinds of license change management are supported by the [ETAS License & Download Portal](#):

- Retrieve an exiting license key (e.g. if the old one is lost due to accidental deletion etc.). For more information, see ["How can I retrieve a license key for an existing and activated license?" on the next page](#).
- Specify a new license server Host ID, a new MAC address or a new Windows User Name for a license (e.g. when you replace a computer or assign a license to another user). For more information, see ["Rehost and Return" on page 84](#).
- Consolidate existing licenses into one license file for easier management. For more information, see ["Consolidation" on page 79](#).

3.3.4 Upgrades

Activations derived from product upgrades:

- If your licenses are covered by a valid maintenance contract, you can receive product upgrades. Upgrading from one major version to another (e.g. from INCA V6.x.x to INCA V7.x.x) will require the generation of a fresh license key as the keys are bound to the product version.
- When the upgrade is performed, ETAS will create a new activation to provide a license for the new product version. And it will be automatically activated for the Host of the previous license.
- Activation ID
- Such line items can be distinguished through a special icon  will be shown.
- It is also possible to upgrade using an Activation ID via the support team.

3.3.5 Where do I find a list of all activated licenses?

1. Navigate to **License**.
2. Click **List Licenses**.
3. All available licenses are displayed.



Note

Evaluation licenses are not visible in the portal!

3.3.6 How can I retrieve a license key for an existing and activated license?

1. Navigate to **License**.
2. Click **List Licenses**.
3. Choose the License for which you want to retrieve the license key.
4. Click **View**.
5. Click **Save to File**.



Note

License keys for inactive fulfillments cannot be saved!

3.3.7 Rehost

A rehost enables you to specify a new license server Host ID or MAC address for a license. This may be needed when you replace a computer.

A rehosted license has a new Fulfillment ID, but retains the original Activation ID.

If only some of the original fulfillments are rehosted, a second (new) fulfillment will be generated for the copies that are not rehosted with the original Activation ID. E.g. this happens, if you split Concurrent licenses between two servers. Please note the Terms & Conditions.

1. Navigate to **Licenses**.
2. Click **List Licenses**.
3. Select a Fulfillment ID.
4. Click **Action**
5. Click **Rehost**
6. Enter the Host ID by clicking on  icon and confirm with **OK**.
7. Click **Rehost**.
8. Save the license file and click on **Complete**.



Note

The rehost facility is available should a user have a new PC or server but limited to:

- 1 rehost per year for User-Named Licenses
- Concurrent and Machine named: 1 per 6 months

And you will not be able to rehost obsolete Licenses.

3.3.8 Rehost Consolidated Licenses

You can rehost consolidated licenses:

1. Navigate to **Licenses**.
2. Click **Your consolidated licenses**.
3. Select a consolidation.
4. Click **Rehost**
5. Enter the Host ID by clicking on  and confirm with **OK**.
6. Click **Rehost**.
7. Save the license file and click on **Complete**.

3.3.9 Return

A return refers to the process of moving license rights from a user to another user. By returning a license the number of available copies in the [ETAS License & Download Portal](#) increases by the amount of returned licenses, so a new license key can be generated.

1. Navigate to **Licenses**.
2. Click **List Licenses**.
3. Select a Fulfillment ID.

4. Click **Return**
5. Confirm the following dialog with **Return**

**Note**

- For the returned fulfillment no license file can be saved any more.
- Return is only allowed for User named licenses, once a year.
- The difference to a rehost is that the license is not activated again.

3.3.10 Consolidation

You can consolidate existing licenses into one license file:

1. Navigate to **Licenses**.
2. Click **List Licenses**.
3. Select a Fulfillment ID.
4. Click **Consolidate**.
5. Confirm the following dialog with **Complete**.

**Note**

A Consolidation is only possible for licenses where the "Server Host ID"s are similar.

3.3.11 View Consolidated Licenses

To access the Consolidated Licenses view, proceed as follows:

1. Navigate to **Licenses**.
2. Click **Consolidated Licenses**.
3. Select a Fulfillment ID.
4. Click **View Fulfillments**, to see licenses contained.

3.4 Managing Entitlements FlexNet Embedded (FNE)

3.4.1 View and Manage Activations

The view **Activations and Entitlements** will give you an overview of all line items that still have copies left for activation.

Under the drop-down **List Entitlements**, you get a list with following details:

- Type
- Activation ID
- Entitlement ID
- Product
- License model
- Original copies
- Available quantity
- Total quantity
- Maintenance
- Downloads

More detailed information on a position can be displayed by clicking on any **Activation ID**.



Note

This view will only show line items that can be activated!

- No Activation IDs for non-digitally licensed products shown
- No Activation IDs for activated line items shown

If you want to see all activations go to **Advanced Search** and set parameter for remaining copies to **any**.

3.4.2 View and Manage Devices

A device is a hardware or software component that uses FlexNet Embedded to license its products. FlexNet Embedded devices connect to FlexNet Operations to manage their ownership, state, features, and more. Examples of devices are laptops running ETAS software or measurement devices ("blue boxes").

A device is identified by a Device ID and its type. Device types are:

- Standalone Device
E.g: FlexNet Embedded device that connects to FlexNet Operations, which manages the device.
- Served Device

E.g: FlexNet Embedded device that is managed via a FlexNet Embedded server. In FlexNet Operations, served devices are essentially read-only entities.

3.4.2.1 View and Manage Devices: List Devices

On clicking **Devices** in the menu bar, the devices page will open. All registered devices in FNO will be shown in a list. It displays Name, ID, Type, Account Name, Licenses and the modification date.

3.4.2.2 View and Manage Devices: Filtering the Devices List

To quickly reduce the size of the devices displayed on the Devices page, you can filter it by device type and activation status.

1. Hover the cursor over the  icon to display the filter selection list.
2. Select the device Type (or types) and Status you want to view.
3. Click **Apply** to filter the devices according to your selection(s). The number in the red bubble indicates how many filters are active.
4. You can also search a filtered devices list.

3.4.2.3 View and Manage Devices: Searching for Devices

Existing devices can be easily located by performing a search on the Devices page. You can perform a simple search on a single attribute, or an advanced search on multiple attributes. For both searches, you can use the * wild card to match zero or more characters.

Simple Search

1. On the Devices page, click the drop-down list next to the filter icon and select the search criterion.
2. Type the search string in the text field next to the drop-down list.
3. Click **Search**.

Advanced Search

1. On the Devices page, click the  icon (next to the Search button) to open the Advanced Search window.
2. Type search criteria in the attribute text fields.
3. Click **Search**.

The [ETAS License & Download Portal](#) will show a list of the devices that match your search criteria on the Device page.

View and Manage Devices: Previewing Licenses on a Device

In the Devices page list, the licenses column enables you to quickly view the licenses on a device and decide whether to view that device in more detail. A preview pane shows up to ten licenses on the device, and includes a link to view the rest of the licenses if there are more than ten on that device.

View and Manage Devices: Upload Capability Request

Whenever your end device cannot connect directly to the internet, this functionality becomes relevant. Example: You use the “Offline Activation” or “Offline Return” in ETAS License Manager (LiMa). This page allows you to manually upload the data provided by LiMa.

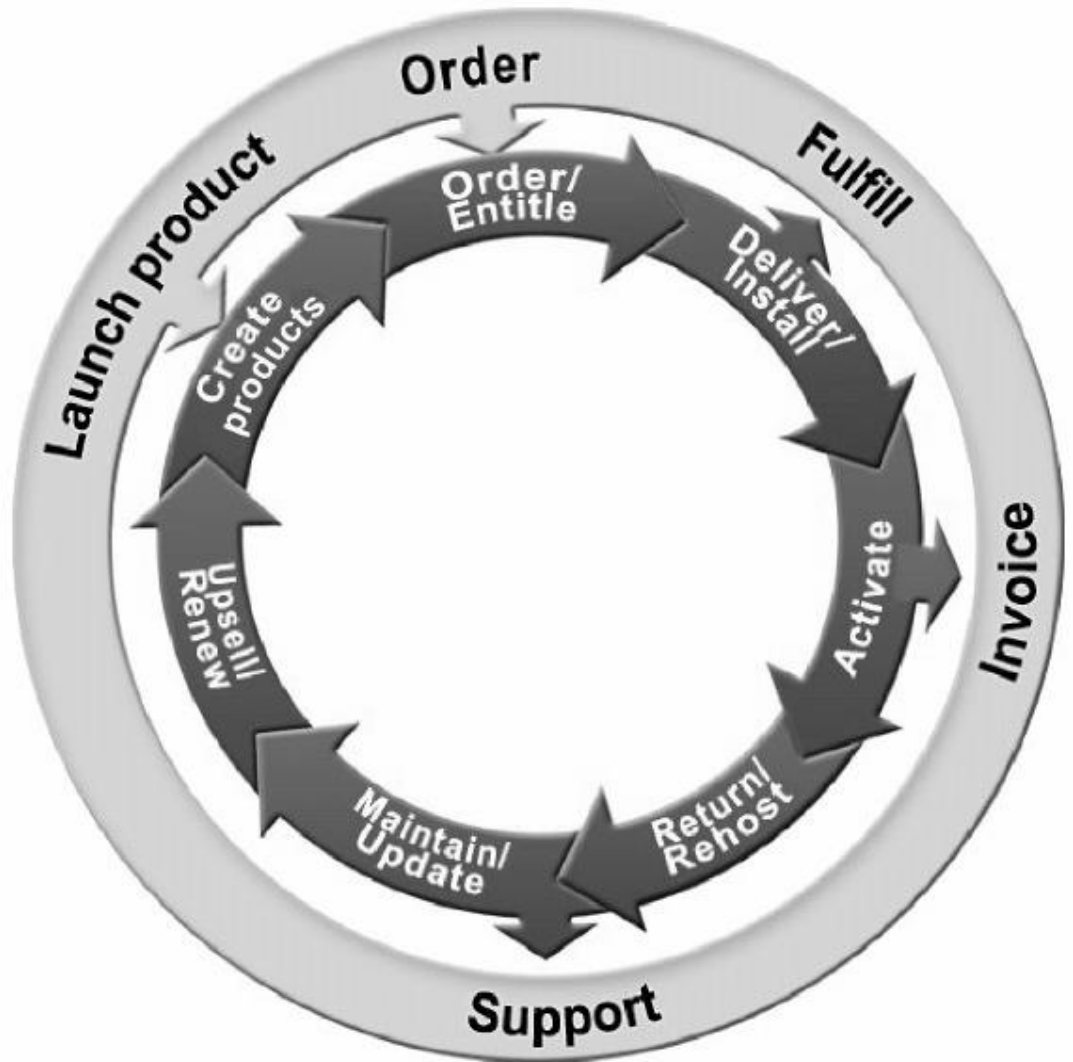
The uploaded files are called “Capability Request” files.

1. Select **Devices**.
2. Click **Upload Capability Request**
3. Click **Browse** and select the Capability Request on your local system.
(The exact controls vary depending on the browser you are using.)
4. Click **Upload**.

After the Capability Request has been processed, you can download a “Capability Response” file from the portal (look in your browser’s download area). This Capability Response file needs to be transferred back to the device where the Capability Request was created. The response is then processed in the respective dialog in ETAS License Manager.

3.4.3 License Lifecycle (FNE)

The delivery/installation and activation stages of the FlexNet Embedded license lifecycle are covered in this help.



- Create Products
Create product definitions that are used to generate licenses
- Order/Entitle
Define a customer's rights to obtain licenses for your products
- Deliver/Install
Deliver the application software to the customer and install that software
- Activate
Deliver licenses to the customer
- Return/Rehost
Manage license transfers from one user or system to another
- Maintain/Update
Deliver software and license updates to the customer
- Upsell/Renew
Renew customer licenses, or sell the customer additional product functionality

3.4.4 Activation

3.4.4.1 Online Activation

The ETAS License Manager software (LiMa) generates a Capability Request for entitled features, then sends the request to FlexNet Operations via the Internet. FlexNet Operations sends a Capability Response to the device, which processes the response and places the license into trusted storage.

No manual interaction with [ETAS License & Download Portal](#) is required.

3.4.4.2 Offline Activation

The ETAS License Manager software (LiMa) generates a Capability Request file, which is manually transferred to a connected system from which it can be uploaded to FlexNet Operations. The Capability Response is downloaded from FlexNet Operations and transferred to the ETAS license management software (LiMa) for processing.

For more information, see "[Managing Entitlements FlexNet Embedded \(FNE\)](#)" on [page 80](#).

3.4.5 Rehost and Return

Offline Return

- The ETAS License Manager software (LiMa) generates a Capability Request file, which is manually transferred to a connected system from which it can be uploaded to FlexNet Operations. The Capability Response is downloaded from FlexNet Operations and transferred to the ETAS License Manager software (LiMa) for processing.
- LiMa processes the Capability Response and the license is removed from the device. LiMa generates the confirmation file which needs to be uploaded to FlexNet Operations.
- After the upload of the Confirmation Response in FlexNet Operations, the license is available again for activation.
- Online Return is not supported.

Manual Return

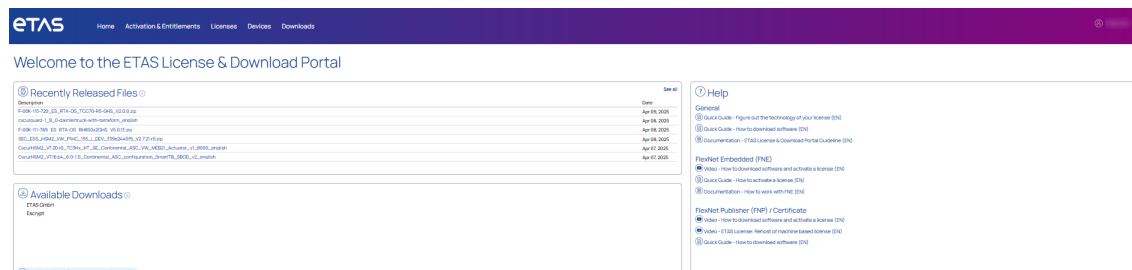
- If the customer PC is defect or lost, the customers should inform ETAS customer support for manual return processes.

Rehost (only possible through return + new activation)

- After the return process, the license can be activated on another device.

3.5 Managing Downloads

3.5.1 View Available Downloads



The view **Home** will give you an overview of available downloads and recently added download files of your ordered product(s).

Please be aware of by selecting one of the recently released files, it will takes up to 10 seconds until to get files data.

For accessing to available downloads area, you can either select a specific product family from the **Homeview** in the area of available downloads, **OR**

1. Navigate to **Downloads**
2. Click **Available Downloads**
3. By selecting one product family, you get the lists of available download packages regarding to your product.

Each product belongs to a product family and all download packages are assigned to the corresponding product family.

Now you can see in the tab “New Versions” the current available download packages for your product. Older download packages will be available in the “Previous Versions” only in the case if you bought older versions of the product in the past. For download of files please select a filename.

Each download package contains a number of files. By selecting a download package, you get the files provided as list again, but please be aware, it will takes up to 10 seconds until to get files displayed. If do that for the first time, you need to accept the EULA once.

- For more description of a file, please click on .
- The tab **Downloads Log** summarizes all your taken downloads. If you select a file, you get the log of your downloads with time stamp.
- The tab **Notification Log** summarizes all messages, which you get for your product e.g. like product updates etc.

3.5.2 View Recent Releases

1. Navigate to **Downloads**
2. Click **Recent Release**
3. Now it the download packages listed, which you can select. Please be aware, it will takes up to 10 seconds until to get files displayed, if you selected a download package. If do that for the first time, you need to accept the EULA once.

3.5.3 View Recently Released Files

1. Navigate to **Downloads**
2. Click **Recently Released Files**
3. Now it the download files listed, which you can select. Please be aware, it will takes up to 10 seconds until to get files displayed, if you selected a download package. If do that for the first time, you need to accept the EULA once.

3.5.4 View Search

The **Search** function enables you to search for download files or download packages.

1. Navigate to **Downloads**
2. Click **Search**
3. The tab **Download Search** opens.

If you search for **download packages**, you can enter a substring of the download package name to get matching results. As second option you can sort also the results by relevance or date.

Please be aware, it will takes up to 10 seconds until to get files details displayed, if you selected a download package. If do that for the first time, you need to accept the EULA once

If you search for **download files**, you can enter a substring of the download package name or download file name to get matching results. As second option you can sort also the results by relevance or date. Please be aware, it will takes up to 10 seconds until to get files details displayed, if you selected a download file. If do that for the first time, you need to accept the EULA once.

In case of download file search, the search engine is not only searching for download files meta data, it searches also the meta data of corresponding of download packages.

3.6 FNP - Basic Concepts

3.6.1 Entitlements

An entitlement represents what you, the customer, have the legal right to use; it is the right to obtain one or more licenses for a product. Think of an entitlement as an account, or a store of rights to use software, from which you can redeem licenses as needed. For example, let's assume you order 10 concurrent licenses of ETAS' Software's product, ASCET Rapid Prototyping Version 6.0.0. You will be issued an entitlement for those 10 copies, specifying the duration of validity. Each entitlement is identified by a unique Entitlement ID, and contains one or more entitlement line items.

For more Information. see ["Activations" below](#).

3.6.2 Activations

Each Entitlement contains a number of Entitlement line items that can be activated, i.e. a license can be generated for them. The Activation maps to a single product, its license terms, the number of copies entitled, and other details needed to generate a license. Activations are uniquely identified by Activation IDs. If an Entitlement line item has been activated, the license key for it has been created.

The ETAS License & Download Portal will show activated licenses as fulfillment's. For more information, see ["Fulfillments" below](#).

3.6.3 Fulfillments

Each time a license key is activated, a fulfillment is generated. The fulfillment contains information on the product, the hosts and the date when it was created. It is identified by a unique Fulfillment ID.

3.6.4 Hosts

In order to activate licenses, information on the hosts/licensed devices has to be entered:

- Machine named license: a MAC address has to be provided.
- User named license: a server host or server triad as well as a user name have to be provided.
- Concurrent license: a server host or server triad has to be provided.

If this data changes (e.g. due to a change in hardware or users), the license needs to be **rehosted**.

For more information, see ["Rehost" on page 77](#).

3.6.5 License Keys

The license determines how, when, and where you can use a licensed product such as ASCET Rapid Prototyping. To ensure the correct usage of the license product, these information are stored in digitally-signed, human-readable text files. This is called certificate-based licensing.

3.6.6 License Models

3.6.6.1 Machine named (PC Based)

- License needs to be managed by each user on their own.
- License can be carried with the PC.
- Exchanging the PC will require you to generate a new license first.

3.6.6.2 Concurrent (Server Based)

- Easy and transparent license management by one server responsible.
- License can be borrowed and carried with the PC if enabled.
- License is available on each PC in the network.
- Several users share a fix amount of licenses; availability of a sufficient amount of free licenses is not granted.

3.6.6.3 User named (Server Based)

- Easy and transparent license management by one server responsible.
- License can be borrowed and carried with the PC.
- License is available on each PC in the network.
- 100% availability for one specific user.

3.6.7 Consolidating Licenses

Consolidating licenses will make it easier for you to manage your license files. Possible use cases are:

- A user has licenses both for the main product and the add-on.
- A lot of users have User named licenses which refer to the same server.
- Consolidated licenses can be rehosted in one step instead of several separate steps.
- You can only consolidate licenses if they have the same MAC address.

3.7 FNE - Basic Concepts

3.7.1 Entitlements

An entitlement represents what you, the customer, have the legal right to use; it is the right to obtain one or more licenses for a product. Think of an entitlement as an account, or a store of rights to use software, from which you can redeem licenses as needed. For example, let's assume you order 10 concurrent licenses of ETAS' Software's product, ASCET Rapid Prototyping Version 6.0.0. You will be issued an entitlement for those 10 copies, specifying the duration of validity. Each entitlement is identified by a unique Entitlement ID, and contains one or more entitlement line items. For more information, see "[Activations](#)" below.

3.7.2 Activations

Each Entitlement contains a number of Entitlement line items that can be activated, i.e. a license can be generated for them. The Activation maps to a single product, its license terms, the number of copies entitled, and other details needed to generate a license. Activations are uniquely identified by Activation IDs. If an Entitlement line item has been activated, the license key for it has been created.

The ETAS License & Download Portal will show activated licenses as fulfillments. For more information, see "[Fulfillments](#)" on page 87.

3.7.3 Trusted Storage

Trusted storage is a secure location bound to a particular device. In addition to its contents being encrypted, security features of trusted storage include:

- Binding, which detects if trusted storage has been copied to another device by using producer-defined system identity characteristics. When license rights are placed in trusted storage, a „fingerprint“ made of system characteristics is placed in trusted storage; when license rights are acquired, the stored fingerprint is compared to the current system's fingerprint to detect changes.
- Anchoring, which provides trust that trusted storage has not been deleted or rolled back to an earlier state on the same device. This prevents a device from restarting a trial license if trusted storage is deleted, for example. To achieve this, another stores a small amount of data in a location that is difficult to observe or access.

3.7.4 License Models

3.7.4.1 Machine named (PC Based)

- License needs to be managed by each user on his/her own.
- License can be carried with the PC.
- Exchanging the PC will require you to generate a new license first.

3.7.4.2 User named (Server Based)

- Easy and transparent license management by one server responsible.
- License can be borrowed and carried with the PC.
- License is available on each PC in the network.
- 100% availability for one specific user.

3.7.4.3 Concurrent (Server Based)

- Easy and transparent license management by one server responsible.
- License can be borrowed and carried with the PC if enabled.
- License is available on each PC in the network.
- Several users share a fix amount of licenses; availability of a sufficient amount of free licenses is not granted.

4 Contact Information

Technical Support

For details of your local sales office as well as your local technical support team and product hotlines, take a look at the ETAS website:

www.etas.com/hotlines



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5 Glossary

G

Grace mode

Licenses can be either permanent or limited for a certain period. If you are borrowing a license from a license server, for instance, this is always limited to a certain date, which you can enter upon borrowing. The Grace mode offers a defined contingent of days of usage in which the software can be used without a license. Only the actual days of usage will be counted. The available contingent depends on the ETAS software offering the Grace mode. It can be disabled or provides up to 14 days of usage. Once this contingent has been used up, the ETAS software can be run only after installing a valid license.

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