

NemSLock Server

Softlock Licence Server

Installation

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NemSLock Server

How to install NemSLock Server

NemSLock Server, overview

NemSLock Server is a program that distributes licenses for programs of Nemetschek Allplan Systems GmbH as floating licenses to registered users in your office.

The license server is installed as a service, which starts automatically.

NemSLock Server should be installed on a computer that is always running and that can be accessed by all users.

The server should be maintained by an experienced person in your company and protected against unauthorized access. Bear in mind that managing licenses is an important task:

You can manage and configure the license server using a graphical user interface provided by **NemSLock Server Console**. **NemSLock Server Console** can be installed on several computers so that the system administrator can access the graphical user interface of **NemSLock Server** from different computers.

Requirements for installing

Minimum requirements for installing NemSLock Server:

Minimum hardware requirements:

- Intel Pentium IV or compatible
- Processor with a rate of at least 1GHz
- 1 GB RAM
- 5 GB free hard disk space
- DirectX 10-compatible graphics card
- Email, USB or network connection for installing the license file
- DVD ROM drive

Minimum software requirements:

- You can use the following operating systems:
 - Windows 8.1
 - Windows 8
 - Windows 7, Service Pack 1
 - Windows Vista, Service Pack 2
 - Windows Server 2012
 - Windows Server 2008 R2
 - Windows Server 2008
- Configured TCP/IP network

Note: Communication is via port 10977. Make sure that firewalls do not block this port.

Further requirements:

The computers where you install NemSLock Server and NemSLock License Manager for standalone workstations (for network clients) need to be connected via the TCP/IP (IPV4) protocol in the network environment.

Installation data

Download the current NemSLock Server setup from Allplan Connect (Download area), making sure you always use the latest data.

Note: The package you receive does not include a data medium with the installation data.

To download the current setup

- 1 Log in to Allplan Connect.
- 2 Open **DOWNLOAD - Installation packages**.
- 3 **Select software - NemSLock License Server** and set the required **Version**.
- 4 Download the ZIP file.
- 5 Save the ZIP file to a folder the server can access. Then extract the file.

Now the current setup is ready for installation (for example, Nemslock Server Setup 2006_Build_nnn.exe).

Package shipped

The NemSLock Server package shipped includes the following:

- One temporary license per seat (program package) for NemSLock Server, e.g. `customer#_001_psd.nslsrv`
- One temporary license for client installation, e.g. `customer#_001_psd.nslock`

Note: The licenses have different extensions. Make sure that you use the correct license for installation.

Installing NemSLock Server

To install NemSLock Server

- You have downloaded, extracted and saved the current NemSLock Server Installation data (on page 3) to a folder the server can access.
 - Check that the package (see "Package shipped" on page 3) you have received is complete.
 - Read the installation requirements (see "Requirements for installing" on page 2).
 - To install NemSLock Server, you need a personal license file for temporary use (for example, `Customer#_001_psd.nslsrv`), which comes with NemSLock Server.
- 1 Log on as the administrator for the local machine or as a user with administrator privileges.
 - 2 Select the folder with the installation data and start the setup for NemSLock Server.
 - 3 Follow the instructions displayed on screen.
 - 4 Accept the terms of the license agreement and click Next.
 - 5 Specify the folder where you want to install NemSLock Server and click Next.
 - 6 Select Typical and click Next.

When you select **Custom**, you can install the following features separately:

- **Console**

You can use this application to manage NemSLock Server. The console can be installed on several workstations. This way, you can administer the server from a number of different locations. However, you can only connect one console to the server at any one time.

- **Server**
The actual license server.
- **Logviewer**
You can use this tool to analyze NemSLock Server log files quickly and easily.

Note: All the features mentioned are usually installed on the server. The console can also be installed on several workstations.

- 7 Enter your **user name** and **company name** and click **Next**.
- 8 Select the **Temporary license file** for NemSLock Server (e.g. customer#_001_psd.nslsrv) and click **Next**.

Please note that it is essential that you select the license file with the extension *.nslsrv. This is the only license file that can be used to install the server of NemSLock Server.

Note: This **temporary license file** is valid for 30 days; however, it only includes one seat of each configuration purchased. For example, if you have purchased 10 seats with the 'Design' package and 5 seats with the 'Architecture' package, the temporary license will include one seat of the 'Design' package and one seat of the 'Architecture' package. This way, you can test the configuration purchased. Only when you generate a registration request and install the registered license file received on the server (see "Installing the license file on the server" on page 8) will you be able to use all seats purchased.

- 9 Now you can check the entries you have made. If the settings are OK, click **Install**.
- 10 Click **Finish** to complete installation.

Note: After installing NemSLock Server, you need to register the program on the computer where it was installed. You can find detailed information on NemSLock Server in the online Help. Open the help system by clicking **Start - All Programs - NemSLock Server - NemSLock Server Help** or press the F1 key in NemSLock Server Console.

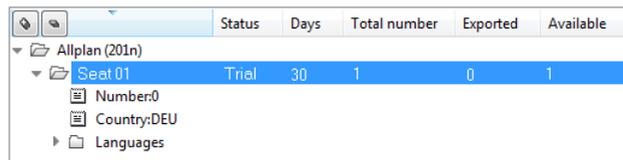
Register NemSLOCK Server

Generating and sending a registration request

Note: Generating a registration request at the server does not interrupt work at the connected clients.

To generate and send a registration request

- 1 Start NemSLOCK Server Console.
- 2 Click  **Modules** on the left.
The **Modules** tab is displayed.
- 3 Select the seat you want to register so that it is highlighted blue.



	Status	Days	Total number	Exported	Available
▼ Allplan (201n)					
▼ Seat 01	Trial	30	1	0	1
Number:0					
Country:DEU					
▶ Languages					

Note: If your license includes configurations for several seats, you need to send a separate registration request for each seat. You will then receive a registered license file for each seat. You need to install each file you get.

- 4 Click **Registration request (register.txt)**.
The **Registration request for seat x** dialog box opens.
- 5 Click **Edit** and enter information on your office in all the fields marked with an asterisk (*). Then click **OK**.

Note: Check that your email address is correct as the registered license file will be sent to this address (not to the sender of the registration request!).

Options

Customer Details

Client ID* 12345678

CD Key* 00000000

Company* Nemetschek Allplan GmbH

Name* Admin

Street* Konrad-Zuse-Platz 1

ZIP* 81029

City* Munich

Country* Germany

Phone* 0049-89-92793

Fax

Email* allplan@nemetschek.com

The fields marked with an * are mandatory!

OK Abbrechen

The `register.txt` file is generated and saved in the `\license` folder of NemSLock Server.

The **Registration request for seat x** dialog box is displayed again.

6 Click **Generate registration request**.

The program opens the folder with the `register.txt` file in Windows Explorer and issues an appropriate message.

You can open this file in a text editor, such as Notepad. The file contains computer-specific information which is required for registration. Now you can check your entries once again. If necessary, make corrections. Then close the file.

- 7 Send the `register.txt` file to register@nemetschek.de. Use the options provided by Windows Explorer to attach the file to an email or to copy it to a computer with Internet connection. You will promptly receive a registered license file by email.
- 8 When your license includes several seats, repeat steps 3 through 7 for each seat.

You will receive a registered license for each registration request. You need to install each license file you get.

Next step: install the registered license file on the server (see "Installing the license file on the server" on page 8)

Installing the license file on the server

You can use the approach described below to install any license file - whether temporary licenses or registered licenses.

Installing a registered license file automatically activates the program.

To install a (registered) license on the server

- A registered license or a personal license for temporary use is available.
- 1 Start **NemSLock Server Console** and close the **NemSLock Server** service by clicking  **Stop server** on the left.

Note: This terminates the **NemSLock Server** service, i.e. clients (users) can no longer access it.

- 2 Click  **Modules** on the left.

The **Modules** tab is displayed.

- 3 Copy the license file (e.g. `customer#_001.nslsrv`) you received from Nemetschek to a suitable folder.
For example, you can use the `\license` folder, which is created automatically in the `\programs` folder, when you install NemSLock Server.
- 4 Clicking **Browse...** opens Windows Explorer. Now you can navigate to the folder with the license (e.g. `\license`).
Select the registered license file (`customer#_001.nslsrv`) and click **Open** to close the dialog box.
- 5 Click **Install license file**.

Installing a registered license validates the data of your computer and the license file. As a result, the software is activated.
The registered licenses you have requested are available in **NemSLock Server**.

- 6 Now you can use  **Start server** to start **NemSLock Server** again.
-

Next step: Creating users (see "Users" on page 9)

You only need to register once per license. **NemSLock Server Console** displays all the available licenses when you start it by double-clicking the desktop icon.

If registration is not successful, you will receive an error message by email. If you do not get any emails, check whether you entered the correct email address when you generated the registration request.

Check everything and try again or contact Nemetschek's technical support.

Users

During installation the **predefined user ALL** is created automatically. This means that you can use the **NemSLock Server** program right away. Creating users in **NemSLock Server Console** is optional.

Creating users

You can create user accounts manually in **NemSLock Server Console**.

Entering user accounts manually is useful when you want to define only a few users or add users to an existing user list.

In addition to the **predefined user ALL**, you can create more users with special rights, who are authorized to borrow licenses, for example.

Note: Experiences administrators can use the PowerShell script `NemGenUsers.ps1`. For up-to-date information visit **Allplan Connect - Support - Solutions**.

Predefined user ALL, details

- During installation the **predefined user ALL** is created automatically.
If there is no other user, each user is given the privileges of the user **ALL**. By default, this user can use all licenses but cannot check out any licenses. By double-clicking the user, you can change the user's privileges.
- With the **Predefined user ALL**, all users who have access to the server can use licenses without having to explicitly log on to the server. You do not need to create individual user profiles until you want to assign specific rights to individual users or limit access to selected users. In this case, you should deactivate the **Predefined user ALL** so that this user is no longer authorized to use licenses.
- The **predefined user ALL** has administrator privileges until another user is created and appointed as the administrator. As soon as an administrator has been defined, the administrator privileges of **ALL** are revoked.
- **ALL** is authorized to use all the licenses, but **ALL** is not authorized to lend licenses.
- The users are entered in the `users.mcf` file. If you stop the license server service, delete the file and start the service again, the **predefined user ALL** has administrator privileges again. In addition, each user can once again administer the license server using the console.
- The **Administrator** user is not a *special* user; in other words, when one or more users have been appointed as administrators, only one user can start the console for this license server at any one time.
- If you are setting up users without giving administrator privileges to anyone, the program will ask you whether you want to appoint yourself as the administrator.

You can also specify a domain (user authentication for Windows server). However, this is not mandatory. If you do not specify a domain, the program uses the Windows user name for each user.

Optional: creating users manually using the console

Entering user accounts manually is useful when you want to define only a few users or add users to an existing user list.

In addition to the **predefined user ALL**, you can create more users with special rights, who are authorized to borrow licenses, for example.

Note: If no user has been created before, the program will ask you whether you want to become a user with administrator privileges as soon as you create the first user account. If you click 'Yes', your name appears in the name box on the following tab. After this, the administrator privileges are removed from the **predefined user ALL**.

User accounts and access rights are written as ASCII text to the `users.mcf` file.

This file is stored in the `\Programs` folder of **NemSLock Server**. You cannot rename, delete or move this file. If **NemSLock Server** cannot find this file, you need to exit and restart **NemSLock Server** and enter all users from scratch. The **predefined user ALL** is retained.

Note: Experiences administrators can use the PowerShell script `NemGenUsers.ps1`. For up-to-date information visit [Allplan Connect - Support - Solutions](#).

To create new users manually

1 Start **NemSLock Server Console**.

2 Click  **Users** on the left.

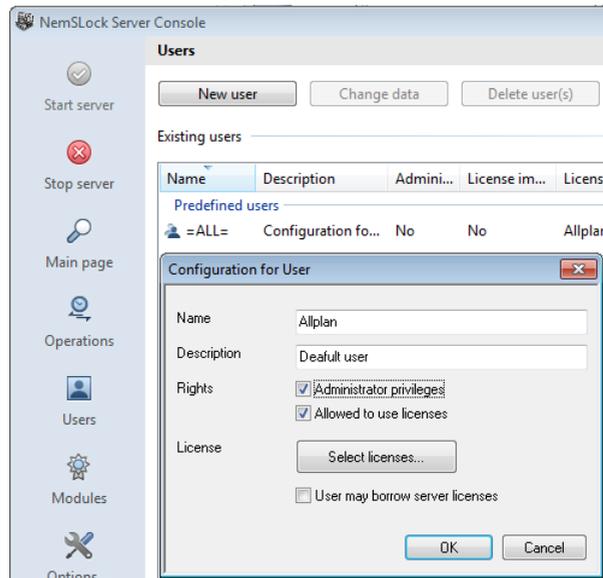
The **Users** tab is displayed.

3 Click **New user** and enter the relevant details.

- Enter the Windows user name for the **Name**.
- You can enter more information on the user in the **Description** box.
- In the **Rights** area, assign **Administrator privileges** for the license server to the user and allow the use of online licenses.

- Clicking **Select licenses** lets you limit the seats the user can select. Otherwise, this user can select all licenses for use. You can also use this option to reserve special licenses (for example, with the **Terrain** option) for specific users.
 - Selecting the **User may borrow server licenses** option allows the user to import online licenses to the local computer (for example, a laptop) and to work without a connection to the server. When you create a new user, this option is not selected by default.
- 4 Click **OK** to confirm.

The `users.mcf` file is updated. This creates the user in NemSLock Server.



- 5 Now you can use the same approach to enter more users.
-

Installing Allplan program on clients, special features

The NemSLock License Manager for standalone workstations client application, which communicates with NemSLock Server, is automatically installed along with the program provided by Nemetschek Allplan Systems GmbH (e.g. Allplan). Whether you install the clients before or after NemSLock Server is irrelevant.

The computers where NemSLock Server and NemSLock License Manager for standalone workstations (for network clients) are installed need to be connected via the TCP/IP protocol in the network.

Please note the following special features:

- Install the clients using the temporary client license (e.g. `customer#_001_psd.nsllock`) that comes with the program (see "Package shipped" on page 3). Do not use the trial license or the server license (different filename extensions). This is the only way to ensure that all the modules you have purchased are actually installed.

Important: It is essential that you select the license file ending in `*.nsllock`. Only this license file can be used to install clients.

- You do not need to register the clients.
- When you switch from hardlock (dongle) to NemSLock Server or NemSLock License Manager, you need to update the client using an appropriate `*.nsllock` license file.

Tip: You can also use the command prompt to change the settings in NemSLock License Manager (see "Changing settings of NemSLock License Manager using the command prompt" on page 23).

Running program with client license

You can install the Nemetschek Allplan programs on an unlimited number of computers, regardless of the number of licenses purchased.

As the assignment of licenses is managed by NemSLock Server, only a specific number of licenses is available. This means that you cannot use more licenses than you have purchased, regardless of the number of computers where you have installed a program. If all the licenses are used, the program displays an appropriate message.

Only when a license is released can other clients work with the program.

Settings made using the client

You want to work with a Nemetschek Allplan program on a computer connected to the license server and the license is to be provided by NemSLock Server.

If you have not worked with this program before, you first need to switch to server mode on the client and then request a license from the server.

To request an online license from NemSLock Server

- Client computer and computer with NemSLock Server are on the network.
- A user account has already been created in NemSLock Server.
- 1 On the Windows taskbar, click **Start - (All) Programs - Nemetschek - Nemetschek SoftLock 2006 - License Manager**.
- 2 Point to the **Server - 'server name'** tab in the bar at the bottom of the **Nemetschek Softlock License Manager** window and click  so that the **Server licenses** window stays open.

If you have not requested a license before, the area is empty. You are not yet connected to the server. Consequently, you can see **Enter server name** in the **Server** box.
- 3 Enter the name of the server in the **Server** box at top left.
- 4 Click  **Update**.
- 5 Select the relevant license(s) (check mark).

Note: To ensure that the program starts, you can select several licenses. If one of the selected licenses is currently being used by someone else, the next available license is automatically selected.

Note: Deactivate the trial license by clearing the check box of the license in the window at the top where the licenses for the standalone versions are displayed. You used this trial license to install the client computer.

- 6 Click  Close to exit NemSLock Server.
- 7 Start the Nemetschek program by double-clicking the icon on the desktop, for example.

Note: The connection to the computer with NemSLock Server must not be interrupted while you are working with the program.

Note: The program starts with one of the licenses currently selected.

Note: If none of the selected licenses/module packages is available, i.e. all licenses are being used, you will see a message to this effect.

You can then click **Select license** to open the license manger and choose an alternative license. If no licenses are available, you are advised to contact your system administrator.

What to do if I cannot connect to the server?

When connecting the client to the license server, you can see the following message:

Failed to establish connection to NemSLock Server.

Do the following:

- Check that the IP address and name of the computer where **NemSLock Server** is installed are correct.
- Make sure that the **NemSLock Server** service is running. If necessary, contact the person who is in charge of managing **NemSLock Server**.
- Make sure that there is a network connection between the relevant network client and the computer where **NemSLock Server** is installed and that it is not interrupted.
- Check whether a firewall blocks communication between the client and license server. In this case, activate port 10977 in the firewall.

Updating/upgrading server and clients

Updating or upgrading NemSLock Server on the server

While you are upgrading or updating NemSLock Server to the latest program version on the server, the clients are not available: You need to shut down the server and return imported licenses to the server. It is worth spending time carefully planning an upgrade of NemSLock Server. You are advised to pick a time when nobody works at the clients, for example, in the evenings or on weekends.

Note: Start by checking which NemSLock Server version is installed. If the version is earlier than **Build 57 (V2011)**, that is, before Allplan switched to Unicode, you should upgrade step by step: install **Build 103 (V2013)** first and then upgrade to **Build 153** or later.

To check which NemSLock Server version is running on the server and to update or upgrade

- Download the NemSLock Server installation data from Allplan Connect. Save the data to a folder the server can access and extract them.
- You need to return all the imported licenses to the server.
- Normally, the server shuts down automatically when you start updating or upgrading. Install the update when nobody is working at the individual workstations.

1 Start **NemSLock Server Console**.

2 To find out which version is installed, click  **Options...** and open the **System** tab.

Find the **File version**. The last three digits indicate the **build** installed.

3 Start **Windows Explorer**.

4 Open the folder where you have just saved the setup.

5 Start the installation program by double-clicking (for example, `Nemslock Server Setup 2006_Build_nnn.exe`).

Setup closes NemSLock Server automatically. You do not need to click  Stop server. If a prompt appears, confirm it.

This shuts down the service of NemSLock Server; in other words, the network connection is terminated and clients (users) can no longer access the server.

Note: You must return all the imported licenses to the server. Otherwise, it cannot shut down. If there are still some imported licenses missing, the system will issue an appropriate message.

6 Follow the instructions displayed on screen.

Upgrading NemSLock Server licenses on server

Prior to installing a new version of Allplan, you are advised to update the NemSLock Server license on the server. Normally it is enough if you generate a registration request with the existing license after a new version of Allplan has been released. You will then get a license for the new version.

Follow the description for Generating and sending a registration request (on page 6).

Upgrading Allplan at the clients

Notes on upgrading Allplan at the clients

- Make sure that NemSLock Server provides licenses for the new version of Allplan. For example, you can upgrade the NemSLock Server licenses on the server (see "Upgrading NemSLock Server licenses on server" on page 18).
- On the Windows taskbar, click **Start - (All) Programs - Nemetschek - Nemetschek SoftLock 2006 - License Manager**.
- Select a license for the new version in the License Manager.
- Upgrade Allplan to the latest version.
 - Select **Existing license file** in the **Select License Information** dialog box. The license driver is installed afterwards.
 - Setup checks whether you have selected a license for the new version of Allplan.
 - If this is so, Setup continues and installs the new version of Allplan.
- If there are problems with the existing license during the upgrade, you can also use the current, temporary client license.
 - If you do not have a current license, you can download it from Allplan Connect (<http://connect.allplan.com>).
 - Log in and go to **myProfile - License Management**. Now you can download the license file for the relevant seat.
 - After having upgraded, open **Nemetschek Softlock License Manager**. Switch the clients to **License server** and select the new license.

How to ...

Showing imported licenses

You can use the filter functions on the **Transactions** tab to get an overview of imported licenses that have not been returned yet.

To display licenses that have been imported

- 1 Start NemSLock Server Console.
- 2 Make sure that the NemSLock Server service is running.
- 3 Click  **Transactions** on the left.

The **Transactions** tab is displayed.

- 4 Activate the **Imported** criterion in the **Filter operations** area.

All the licenses that are currently imported are displayed in the **Most recent operations** area.

Finding out which NemSLock Server version is installed (build)

If you want to update or upgrade NemSLock Server, it is helpful to know the initial version.

To find out which NemSLock Server version is installed (build)

- 1 Start NemSLock Server Console.
- 2 Make sure that the NemSLock Server service is running.
- 3 Click  **Options...** on the left.
- 4 Open the **System** tab.

Find the **File version**. The last three digits indicate the **build** installed.

Determining the server name

The name of the computer where **NemSLock Server** is installed must be known so that the network client can connect to **NemSLock Server** (in order to use an online or import license).

When **NemSLock Server Console** is starting, the system manager can display this computer name by clicking  **Options....** The name of the server computer is displayed in the **System** tab.

Disconnecting users from the server

The administrator can disconnect users from **NemSLock Server**; i.e. interrupt the use of online licenses and retrieve the relevant online licenses. A message should be send to the user in advance.

To disconnect a user from the server

- 1 Start **NemSLock Server Console**.
 - 2 Select the relevant user(s) in the **Connected computers** area. You can use the CTRL key to select several users.
 - 3 If you want, you can now send the selected users a message.
 - Select the **Send message** option in the **Actions** area and click **Execute**.
 - Enter text and click **Send**.
 - 4 To disconnect users, select the relevant user(s) in the **Connected computers** area.
 - 5 Select the **Disconnect** option in the **Actions** area and click **Execute**.
-

Maintaining NemSLock Server, special features

Important: Before you start maintaining NemSLock Server (e.g. update software, install licenses etc.), make sure that no licenses are imported to other computers.

We strongly recommend that you schedule maintenance work so that your daily tasks are not interrupted. All import licenses must be returned. This also applies for licenses used by computers that are not connected to the network (e.g. notebooks). It may be necessary to wait until the time limit of the licenses expires.

Installing Allplan on several computers, using an image and SysPrep

SysPrep makes installation of Allplan easier, in particular when it comes to installing Allplan on several computers using an image. SysPrep helps you prepare the master computer so that its image can be used to install the other computers.

Note: Run SysPrep as the system administrator. SysPrep should only be used by experienced system administrators.

SysPrep prepares the master computer as follows:

- All the licenses are set to the status of **expired**; the same applies to trial licenses that are installed afterwards.
- The computer ID file is reset.
- The new computer ID file is only generated the next time you start the program.

You can find detailed information on SysPrep in **Allplan Connect - Support - Solutions - sysprep**.

After having copied the image, you can install the final license or connect the License Manager with NemSLock Server. This way, you can use the full function scope of <Product>.

Changing settings of NemSLock License Manager using the command prompt

Note: The following description is intended for experienced users. If you are not sure what to do, we recommend that you consult an experienced administrator or a technician.

You can use the command prompt to change various settings in NemSLock License Manager.

Some examples:

- You have installed in silent mode. Now you want to switch to NemSLock Server.
- You have configured a computer as a reference computer (with an unregistered NemSLock license) and then distributed it as an image to other computers. In this case, the expiration date of the NemSLock licenses is set to 0 days. You can then switch the computers to NemSLock Server.
This type of installation is particularly useful for large offices or institutions.

NemSLock License Manager is in the following folder:

```
%COMMONPROGRAMFILES%\Nemetschek\NemSLock2006
```

This folder contains the NemSLockAdmin.exe program, which you can activate with various options:

- `/c:server servername`
You can use this option to switch license management to NemSLock License Server.

The `chkModList.ini` file controls which server licenses are used. This file is in the same folder as the `NemSLockAdmin.exe` program.

The entries in the `chkModList.ini` file have the following meaning:

For example:

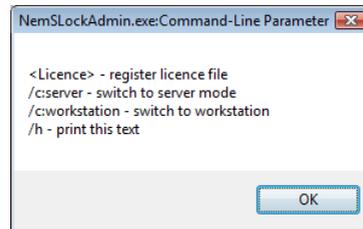
```
[servername]142971000/142834000/652861000/
```

The license server is enclosed in parentheses followed by the various selected licenses separated by "\". In this example:

142971000: 14 = Allplan, 29 = Version 2014, 71 = seat number, 000 is irrelevant

142834000: 14 = Allplan, 28 = Version 2013, 34 = seat number
652861000: 65= Allplan Sketch, 28= Version 2013, 61= seat number

- `/c:workstation`
You can use this option to switch license management to a standalone license. However, you need to activate the license you want to use directly in the License Manager.
- `File.nslck`
You can install a license simply by entering the name of the relevant nslck license file. This opens the dialog box for importing licenses.



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