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Chapter 1 Getting Started

This chapter lists system requirements for the LucidShape family of products and tells you how to contact LucidShape Support.

You can run LucidShape products using either a fixed license or a floating license. A fixed license allows you to run LucidShape only on the computer on which it is installed. A floating license, which is installed on a network server, allows you to run LucidShape on any computer on the same network. The number of users that can use LucidShape concurrently is limited by the licensing software.

Although the examples in this document show and refer to the LucidShape product, the instructions apply to the entire LucidShape family of products, which includes:

- LucidShape
- LucidDrive
- LucidShape CAA V5 Based product and the separately licensed Base Module, Visualize Module, and Light Guide Design Module

In this section:

System Requirements on page 5
Before installing LucidShape to run with either a fixed or floating license, confirm you meet the system requirements.

Contacting LucidShape Support on page 7
If you need help or have questions about how to use LucidShape products that are not answered in the documentation or online help, you can contact the LucidShape Support team or your local distributor.

System Requirements

Before installing LucidShape to run with either a fixed or floating license, confirm you meet the system requirements.

- A personal computer with any CPU with at least four cores from the last or second-to-last processor generation.
  
  To get maximum performance from multi-threaded simulations, we recommend four or more CPU cores. LucidShape simulations make use of multi-threading, and a high number of cores or threads will enhance ray tracing speed; however, the most beneficial feature to take into consideration is a CPU with a very high single-thread frequency (or single-thread performance).
  
  If Intel Hyper-Threading Technology is available on your computer, enabling it will further increase multi-threaded simulation performance.

- Operating System:
  
  - LucidShape - Windows 10 64-bit
  - LucidDrive - Windows 10 64-bit
  - LucidShape CAA V5 Based for CATIA R27, R28, R29, R30, and R31 - Windows 10 64-bit
• Random Access Memory (RAM): 8 GB minimum, 16 GB or more recommended.

If you are planning on running any of the following scenarios, 32 GB or more recommended:
  • spectral simulations with high sensor resolutions
  • simulations using multi-view luminance camera sensors
  • simulations with many sensors in the model
  • models that contain complex geometry

• GPU:
  • With GPUTrace: Any NVIDIA graphics card with a CUDA compute capability of at least 5.0 can be used. We recommend using the latest NVIDIA graphics card driver available for your specific GPU card. The driver version number must be at least 455. If these requirements are not met, the software can freeze when you use GPUTrace, and you could lose any unsaved work.
  • Without GPUTrace: LucidShape does not require a special graphics card. If you are installing LucidShape CAA V5 Based, see the Certified Workstations link on the Dassault Systemes Hardware and Software (https://www.3ds.com/support/certified-hardware/) page.
  • LucidDrive: Any NVIDIA graphics card with the latest available graphics card driver (with a CUDA compute capability of at least 5.0). GeForce strongly recommended (there might be performance issues with Quadro cards due to driver problems).

If you are purchasing graphics cards, contact LucidShape Support for the latest recommendations.

• Free disk space as listed to install the LucidShape product:

<table>
<thead>
<tr>
<th>Product</th>
<th>Disk Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>LucidShape</td>
<td>2.0 GB</td>
</tr>
<tr>
<td>LucidDrive</td>
<td>2.0 GB</td>
</tr>
<tr>
<td>LucidShape CAA V5 Based</td>
<td>2.0 GB</td>
</tr>
</tbody>
</table>

• Free disk space on the system drive (i.e., the drive on which the operating system is installed) for installing prerequisite software and for processes and temporary files required when running the product: 5 GB. If LucidShape is installed on a drive other than the system drive, that drive should also have at least 5 GB free disk space.

Large models and complex analyses may require significantly more disk space.

• License keys provided by Synopsys OSG via SolvNetPlus SmartKeys or your local LucidShape software distributor.

• If you are using a fixed license or are installing OSG Floating License Manager, a license dongle and a USB2.0 (or higher) Type A port.

• Display:
  • A high-resolution monitor (1280 x 1024 or better) with 16-bit (65536) colors or more.
  • An OpenGL compliant graphics card with stable ICD driver support recommended. We recommend that you always use the latest version of the driver for your graphics card.

• If you are installing the LucidShape CAA V5 Based product, you must have a licensed version of a supported CATIA V5 release and the CATIA Mechanical Design 2 Configuration (MD2).
The Design Module, Visualize Module, Light Guide Design Module, and SmartStart Material Library Module for the LucidShape CAA V5 Based product each requires a separate license.

Note: CATIA licensing requirements for the LucidShape CAA Light Guide Design Module are subject to change in future releases. To check for updates to these requirements, contact LucidShape Support.

- If you will be running LucidShape with a floating license, you must also have:
  - TCP/IP network protocol
  - OSG Floating License Manager (a Sentinel RMS license manager that has been customized for Synopsys OSG software), provided by Synopsys OSG via SolvNetPlus.

Before installing LucidShape, your LucidShape or IT Administrator should install and configure the OSG Floating License Manager. See Installing and Managing the OSG Floating License Manager on page 18 for instructions.

- A DVD drive, if installing from a DVD.

Contacting LucidShape Support

If you need help or have questions about how to use LucidShape products that are not answered in the documentation or online help, you can contact the LucidShape Support team or your local distributor.

- The LucidShape Support team is available from 9 a.m. to 5 p.m. CET (UTC + 1).
  Telephone +49-5251-29875-00
  Email: lucidshape_support@synopsys.com

- For customers working with distributors, please contact your local LucidShape software distributor for support. See the Synopsys Optical Solutions Group Global Contacts (https://optics.synopsys.com/support/support-global-contacts.html) page for contact information.
Chapter 2 Installing LucidShape

You can run LucidShape products using either a fixed license or a floating license.

- If you are using a fixed license, you also need a USB license dongle.
- If you are using a floating license, you need the name of your license server.

Before installing LucidShape, your LucidShape or IT Administrator should install and configure the OSG Floating License Manager.

These instructions assume that you have already downloaded LucidShape from the Synopsys SolvNetPlus website or that you ordered and received a LucidShape DVD. If you have not done so, see Using SolvNetPlus to Obtain LucidShape Software and Licenses on page 36.

Note: Except where noted, the instructions and illustrations in this document for the LucidShape product apply to all of the LucidShape products.

In this section:

Installing LucidShape on page 8
Follow these instructions to install LucidShape on your system.

Configuring LucidShape with a Fixed License on page 12
If you already have a license key for this product, skip to Installing a License Key for a Fixed License on page 13. If you do not yet have a license key, continue with Obtaining the Host ID for a License Dongle on page 12.

Configuring LucidShape with a Floating License on page 15
If you are using a floating license, you need to provide the name of the server hosting the OSG Floating License Manager. Your LucidShape or IT Administrator should have provided you with the name of the server hosting the OSG Floating License Manager.

Installing LucidShape

Follow these instructions to install LucidShape on your system.

1. Log on to your computer as Administrator.

2. Navigate to the folder where the LucidShape setup file is located. If you have a DVD, insert it into the DVD drive and navigate to that drive.

3. Double-click the setup file (e.g., SetupLucidShape_version.exe)

   where version is the version number for the release (e.g., SetupLucidShape_2022.03.exe). For the LucidShape CAA V5 Based product, the file name also includes the CATIA version (e.g., SetupLucidShapeCAA_R27_2022.06.exe).

   The Setup window is displayed at the License Agreement screen.
4. Click **I Agree** to continue.

   The Choose Install Location screen is displayed.

5. Specify a location.

   If an earlier release of the product was installed, the default location will be set to the path used for that release. If you want to install the program in a different folder, click the **Browse** button to locate and specify that folder.

   For most LucidShape products, the default location is `C:\productName_version`.

   For LucidShape CAA, the default location is `C:\Program Files\Synopsys\LucidShapeCAA\CATIAversion\LucidShapeCAAversion`.

6. Click **Next** (for LucidShape CAA V5 Based) or click **Install** (for all other LucidShape products).

   If you are installing a LucidShape product other than LucidShape CAA V5 Based, the Setup window shows the progress of the installation. Skip to step 11 on page 11 to finish the installation process.

   If you are installing the LucidShape CAA V5 Based product, the Choose CATIA Installation Directory screen is displayed; continue with the following steps.

   The Choose CATIA Installation Directory screen allows you to associate the LucidShape CAA product with a specific CATIA installation. If a CATIA installation folder was detected, the path to that folder is displayed in the input field. If CATIA is not installed on the same computer, or if CATIA is managed by a third-party tool that maintains configurations and versions, the input field may be blank, and
you may need to perform additional steps to complete your installation. See Troubleshooting the LucidShape CAA V5 Based Installation on page 48 for details.

7. If you need to specify or want to change the CATIA installation folder, edit the path or click the **Browse** button to navigate to it and select it.

8. Click **Next** to continue.

The Choose Public Data Location screen is displayed. This allows you to specify a location for installing public data, such as example model files. To allow interactive use of these files, choose a folder for which you have write permission. The default location is `C:\Users\Public\Documents\LucidShapeCAA\CATIAversion\LucidShapeCAAversion` (e.g., `C:\Users\Public\Documents\LucidShapeCAA\R27\2022.06`).

9. To specify a different folder, edit the path or click the **Browse** button to navigate to it and select it.

10. Click **Install**.

The Setup window shows the progress of the installation.

When the process is complete, Installation Complete is displayed in the Setup window.
11. For LucidShape CAA, this is the final screen in the installation wizard. Click **Close** and skip to step 13 on page 11. For all other LucidShape products, click **Next** to exit the LucidShape installation wizard.

The Completing the LucidShape Setup Wizard screen is displayed.

12. Click **Finish**.

The installation is complete.

**Note:** LucidShape software will not be able to run if it is blocked by Data Loss Prevention software or anti-malware software installed on your computer. Contact your system administrator to ensure that such software has a policy that adds LucidShape software to your allowed software list.

13. Configure your license as described in **Configuring LucidShape with a Fixed License** on page 12 or **Configuring LucidShape with a Floating License** on page 15.

14. If you are installing LucidShape CAA, you must perform one more step before you can use this product. See **Specifying Global Settings for NVIDIA Graphics Card** on page 50 for instructions.

15. If you are installing LucidShape CAA with a license for the Light Guide Design Module, you must perform one more step after you install your license key but before you can use this module. See **Set CATIA Option to Preserve Object Naming for the Light Guide Design Module** on page 52 for instructions.
16. If you are installing LucidDriveSC, see the *LucidDrive Server/Client* document (LucidDriveSC.pdf) available in the doc directory of your LucidShapeSC installation directory for additional instructions.

**Configuring LucidShape with a Fixed License**

If you already have a license key for this product, skip to Installing a License Key for a Fixed License on page 13. If you do not yet have a license key, continue with Obtaining the Host ID for a License Dongle on page 12.

**In this section:**

- Obtaining the Host ID for a License Dongle on page 12
- A license key is designed to work for only one USB dongle, so the license key is associated with a unique value encoded on the dongle called a Host ID.
- Installing a License Key for a Fixed License on page 13
- Follow these instructions to install a license key for a fixed license.

**Obtaining the Host ID for a License Dongle**

A license key is designed to work for only one USB dongle, so the license key is associated with a unique value encoded on the dongle called a Host ID.

Because of this, you need to know the Host ID for the license dongle before you can retrieve a license key. The Host ID is printed on a label on the USB dongle; if you’re unable to read the ID on the label, you can also obtain the Host ID by running a program that reads it from the dongle. In the LucidShape installation, the GetHostID utility is provided for this purpose. Follow these steps to run GetHostID.

1. Insert the USB dongle in an active USB port. A light glows at the end of the dongle when it’s inserted correctly in an active USB port.

2. Select the Windows Start menu, expand the LucidShape group and select GetHostID, shown in the following figure.

The GetHostID utility is displayed. In this example, the Host ID for the USB dongle is 400-*MM*4444444. Note that the version number displayed at the top of the GetHostID utility may vary, depending on the product you’re installing.
3. Copy the Dongle Host ID to use when you retrieve your license key on the Synopsys SolvNetPlus website. See Retrieving License Keys on page 43 for instructions.

4. Click Done to close the GetHostID utility.

After you retrieve your license key, continue with Installing a License Key for a Fixed License on page 13.

**Installing a License Key for a Fixed License**

Follow these instructions to install a license key for a fixed license.

To install the license key for a LucidShape product, you must have:

- The LucidShape product installed
- A license dongle
- A valid license key

This procedure assumes that you have already obtained a license key from the SolvNetPlus SmartKeys web page. If you have not done so, see Retrieving License Keys on page 43 for instructions.

Follow these steps to set up licensing for the LucidShape product.

1. Insert the license dongle in an active USB port. A light glows at the end of the dongle when it’s inserted correctly in an active USB port.

The license dongle must remain connected whenever you are running the LucidShape product.

It may take a few minutes for your system to recognize the dongle.

2. Start the LucidShape product. To do this, you can double-click the shortcut icon on the desktop or select the Windows Start button and navigate to the product name, as shown in the following example.

   **Start > LucidShape 2020.12 > LucidShape.**
The License Check Failed dialog box is displayed, indicating that a valid license key file was not found.

3. Make sure the **Fixed** option is selected and then click the **Install Fixed License** button.

The Fixed License Installer dialog box opens.

4. Click the **Browse** button.

5. In the Open dialog box, navigate to the license key file, select it, and click **Open**.

The Open dialog box closes, and the path to the license key file is shown in the Fixed License Installer.
6. Click the **Install** button.

   The license key is installed, and the Success dialog box is displayed.

   ![Success dialog box](image)

7. Click **OK**.

8. Click **OK** on the License Check Failed dialog box.

9. Start the LucidShape product again.

   You can now start working with LucidShape.

---

**Configuring LucidShape with a Floating License**

If you are using a floating license, you need to provide the name of the server hosting the OSG Floating License Manager. Your LucidShape or IT Administrator should have provided you with the name of the server hosting the OSG Floating License Manager.

If you are installing LucidShape CAA, you may also need to enable specific modules as described in [Optional: Specifying Module Licenses to Activate (LucidShape CAA Only)](#) on page 17.

If you need to install the OSG Floating License Manager, see [Installing and Managing the OSG Floating License Manager](#) on page 18.

---

**In this section:**

[Enabling the Floating License](#) on page 16

To enable the floating license to work for your LucidShape installation, you need to specify the name of your license server in a LucidShape initialization file.

[Optional: Specifying Module Licenses to Activate (LucidShape CAA Only)](#) on page 17

For LucidShape CAA, if you have a license for more than one module, you can specify which of the licenses you want to activate when you start LucidShape CAA.
Enabling the Floating License

To enable the floating license to work for your LucidShape installation, you need to specify the name of your license server in a LucidShape initialization file.

1. Start LucidShape.
   The License Check Failed dialog box displays.

2. Select the **Floating** option at the bottom of the dialog box.

3. Delete the text **no-net**, enter the name of your license server, and click **OK**.

   The server name is copied to the **LucidLicensing.ini** file.

4. Restart LucidShape as prompted.

5. Optional: If you have licenses for multiple modules, you can specify which module licenses are activated when you start LucidShape CAA. See **Optional: Specifying Module Licenses to Activate (LucidShape CAA Only)** on page 17 for details.
Optional: Specifying Module Licenses to Activate (LucidShape CAA Only)

For LucidShape CAA, if you have a license for more than one module, you can specify which of the licenses you want to activate when you start LucidShape CAA.

**Before You Begin:** You must have enabled your floating license and restarted the product as explained in Enabling the Floating License on page 16.

1. Select the menu **Help > Setup License**.

   The LucidShape CAA License Setup dialog box is displayed, shown in the following figure.

   ![LucidShape CAA License Setup Dialog](image)

2. Select the modules that you want to activate or deactivate on startup.

   Options that are turned *on* (checked) are activated on startup, and options that are *off* (unchecked) are deactivated on startup.

3. If you would like display the LucidShape CAA License Setup dialog box each time you start the product so that you can see or specify which module licenses are active when you start LucidShape CAA, select the **show floating license setup on startup** check box.

4. Click **OK** to accept the changes and close the dialog box.

You can now start working with LucidShape.
Chapter 3 Installing and Managing the OSG Floating License Manager

If you are using floating licenses, you need to install and maintain an OSG Floating License Manager.

The floating license capability is supported by the OSG Floating License Manager, which is a Sentinel RMS license manager that has been customized for Synopsys OSG software. If you install other Synopsys OSG software products, they will share the same license management software, and their license keys will be written to the same license key file. The applications cannot share licenses; they share only the license server software.

Installing a floating license requires system-administration-level training and should be performed by someone who is familiar with your network structure. To perform this installation, you must be logged on as administrator.

The steps for installing OSG Floating License Manager to run with a floating license are:

- Selecting a License Server on page 19
- Downloading and Installing the OSG Floating License Manager on page 19
- Installing a License Key for a Floating License on page 25
- Administering Floating Licenses on page 27

In this section:

Selecting a License Server on page 19
Before installing any software, you must identify the computer that will act as the license server. This must be a computer connected to a network that can grant access to one or more client machines.

Downloading and Installing the OSG Floating License Manager on page 19
You must have the OSG Floating License Manager, which is provided on the SolvNetPlus website on the same Downloads page as the product software.

Obtaining the Host ID for a License Dongle on page 24
A license key is designed to work for only one USB dongle, so the license key is associated with a unique value encoded on the dongle called a Host ID.

Installing a License Key for a Floating License on page 25
After you install the license server software and retrieve a license key, you need to install the license key on the license server before client machines can successfully run LucidShape. The Floating License Installer is provided for this purpose.

Administering Floating Licenses on page 27
In general, there is nothing that you need to do to administer the floating licenses. As long as the floating license server machine is operational, connected to the network, and is running the Sentinel service, licenses are available to clients.
Selecting a License Server

Before installing any software, you must identify the computer that will act as the license server. This must be a computer connected to a network that can grant access to one or more client machines.

For any one product, it is not possible to have two sets of license keys (locked to different dongles) on the same floating license server. Each set of license keys is composed of a set of exclusive module licenses; because of this, if you install license keys for a product and then add a second set of license keys for that product, the second set of license keys will override the first set.

If you want to use a second dongle, you need to setup a second license server. In principle it is possible to combine license keys on one dongle, this depends among other on the modules and the respective expiration date. Please contact your LucidShape representative at lucidshape_support@synopsys.com for more information.

Note: The OSG Floating License Manager communicates via port 5093. If you will be running LucidShape across different subnets, you will have to configure your routers or firewalls to allow two-way communication across this port.

Downloading and Installing the OSG Floating License Manager

You must have the OSG Floating License Manager, which is provided on the SolvNetPlus website on the same Downloads page as the product software.

See Using SolvNetPlus to Obtain LucidShape Software and Licenses on page 36 for details. Follow these steps to install the OSG Floating License Manager on the license server.

Note: If you have a different version of the Sentinel RMS software, you must first uninstall the older version, as described in step 2 on page 19.

1. Log on to the license server with administrator privileges.

2. If any version of the OSG Floating License Manager or the Sentinel RMS License Manager software is installed on the license server computer, you must uninstall it using the following sub-steps. If no prior version is installed, skip to step 3 on page 19.

   a) Open the Control Panel and select Programs and Features.

   If the list includes both the OSG Floating License Manager Admin Tools and the Sentinel RMS License Manager, shown in the following figure, you must uninstall both of these.

   b) Select the program to uninstall and then click Uninstall/Change.

   c) Follow the instructions on screen.

3. Navigate to the folder where the setup file is located.

4. Double-click the setup file FloatingLM.exe.
The Welcome screen for the OSG Floating Manager Admin Tools wizard is displayed.

5. Click Next.

The License Agreement screen for the OSG Floating License Manager Admin Tools is displayed.

6. Click the I Accept option and click Next to continue.

The Ready to Install screen is displayed.

7. Click Install.

The progress screen is displayed while the software is installed.
8. Accept the default values for all questions.
   The Welcome screen for the Sentinel RMS License Manager is displayed.

9. Click Next.
   The License Agreement screen for the Sentinel RMS License Manager wizard is displayed.

10. Click the I Accept option and then click Next to continue.
    The Customer Information dialog box is displayed.
11. Click **Next** to accept the defaults and continue.

The Destination Folder screen is displayed.

12. Click **Next** to accept the default and continue.

The Setup Type screen is displayed.

13. Click **Next** to accept Complete (recommended) and continue.

The System Firewall Settings screen is displayed.
14. Leave the option turned on (checked) and click **Next**.

   This setting allows the Floating License Manager to add inbound rules. If you change this setting, LucidShape will not be able to obtain the license needed to run.

   The Ready to Install screen is displayed.

15. Click **Install**.

   The progress screen is displayed while the software is installed.

   When the installation is finished, the Completed screen for the Sentinel License Manager is displayed.
16. Click **Finish**.

The wizard finishes installing the OSG Floating License Manager Admin Tools, and then the Completed screen is displayed.

17. Click **Finish**.

The installation is complete.

18. Reboot your computer if prompted to do so.

If you already have a license key for this product, skip to Installing a License Key for a Floating License on page 25. If you do not yet have a license key, continue with Obtaining the Host ID for a License Dongle on page 24.

## Obtaining the Host ID for a License Dongle

A license key is designed to work for only one USB dongle, so the license key is associated with a unique value encoded on the dongle called a Host ID.

Because of this, you need to know the Host ID for the license dongle before you can retrieve a license key. The Host ID is printed on a label on the USB dongle; if you’re unable to read the ID on the label, you can also obtain the Host ID by running a program that reads it from the dongle. In the LucidShape installation, the GetHostID utility is provided for this purpose. Follow these steps to run GetHostID.

1. Insert the USB dongle in an active USB port. A light glows at the end of the dongle when it’s inserted correctly in an active USB port.

2. Select the Windows Start menu, expand the LucidShape group and select **GetHostID**, shown in the following figure.
The GetHostID utility is displayed. In this example, the Host ID for the USB dongle is 400–*MMMMMMMMMMMMM. Note that the version number displayed at the top of the GetHostID utility may vary, depending on the product you’re installing.

3. Copy the Dongle Host ID to use when you retrieve your license key on the Synopsys SolvNetPlus website. See Retrieving License Keys on page 43 for instructions.

4. Click Done to close the GetHostID utility.

   After you retrieve your license key, continue with Installing a License Key for a Floating License on page 25.

**Installing a License Key for a Floating License**

After you install the license server software and retrieve a license key, you need to install the license key on the license server before client machines can successfully run LucidShape. The Floating License Installer is provided for this purpose.

This procedure assumes that you have already obtained a valid license file from the SolvNetPlus SmartKeys web page. If you have not done so, see Retrieving License Keys on page 43 for instructions.

**Note:** For any one product, it is not possible to have two sets of license keys (locked to different dongles) on the same floating license server. Each set of license keys is composed of a set of exclusive module licenses; because of this, if you install license keys for a product and then add a second set of license keys for that product, the second set of license keys will override the first set.

If you want to use a second dongle, you need to setup a second license server. In principle it is possible to combine license keys on one dongle, this depends among other on the modules and the respective expiration date. Please contact your LucidShape representative at lucidshape_support@synopsys.com for more information.

Follow these steps to install your license key.

1. Make sure that the license dongle is inserted in an active USB port on the license server. A light glows at the end of the dongle when it’s inserted correctly in an active USB port.
It may take a few minutes for your system to recognize the dongle.

2. Click the Windows Start button on the taskbar, and navigate to **OSG Floating License Manager**. Right-click **Floating License Installer** and select **Run as Administrator**.

   ![Floating License Installer](image)

   The Floating License Installer is displayed, as shown in the following figure.

3. Click the **Browse** button.

4. In the Open dialog box, navigate to the license key file, select it, and click **Open**.

   The Open dialog box is closed, and the path to the license key file is shown in the Floating License Installer.

   ![Open dialog box](image)

5. Click the **Install** button.

   The license key is installed, and the Success dialog box is displayed.
6. To close the Floating License Installer, click the X in the top right corner.

Continue with Administering Floating Licenses on page 27.

**Administering Floating Licenses**

In general, there is nothing that you need to do to administer the floating licenses. As long as the floating license server machine is operational, connected to the network, and is running the Sentinel service, licenses are available to clients.

**In this section:**

- Monitoring License Use on page 27
  It is possible for all available licenses to be in use, which would prevent additional clients from running LucidShape. In such cases, a system administrator can use the Sentinel Administrator Utility (WlmAdmin) to determine to whom the module licenses have been allocated.

- Improving Access to LucidShape Licenses with the Sentinel License Manager on page 28
  By default, LucidShape licenses are available to anyone on your server on a first-come, first-served basis. Therefore, you can use LucidShape immediately without using the OSG Floating License Manager. However, if you want to control access to these licenses based on work priorities, you can use the Sentinel Administrator Utility to reserve copies for or deny access to specific users.

- Logging Floating License Usage on page 32
  Floating license usage is automatically recorded in the file *usage.log*.

**Monitoring License Use**

It is possible for all available licenses to be in use, which would prevent additional clients from running LucidShape. In such cases, a system administrator can use the Sentinel Administrator Utility (WlmAdmin) to determine to whom the module licenses have been allocated.

**Note:** To use the Administrator Utility utility, you must be the person who started the license server, or you must have administrator privileges.

1. To start the utility, click the Windows Start menu and select Programs > OSG Floating License Manager > Administrator Utility.

2. Expand the list of modules below the license server hostname.
The details presented in the dialog box indicate which client machine and username have checked out the licenses. The example below shows that from the license server machine **INSPIRONAMD**, a LucidShape license is checked out to a user named **JDoe**, who is using a client machine named **J Doe-z400_1**.

You can also use the Administrator Utility utility to obtain other licensing activity information, such as license servers detected, details on active licenses, etc. For more information about how to use the Administrator Utility utility, see the *Sentinel System Administrator’s Guide*. After the Sentinel software is installed, this manual is available by selecting the Windows **Start** menu and selecting **Programs > OSG Floating License Manager > System Administrator’s Guide**.

**Note:** Not all functions described in the *Sentinel System Administrator’s Guide* are supported by LucidShape.

**Improving Access to LucidShape Licenses with the Sentinel License Manager**

By default, LucidShape licenses are available to anyone on your server on a first-come, first-served basis. Therefore, you can use LucidShape immediately without using the OSG Floating License Manager. However, if you want to control access to these licenses based on work priorities, you can use the Sentinel Administrator Utility to reserve copies for or deny access to specific users.

Before using the Administrator Utility, consider how you want to organize your groups, keeping in mind the following points:

- Anyone on your server can use a license that has not been explicitly reserved.
- After you create a group, you can specify the status of individual members as *Included* (access allowed) or *Excluded* (access denied).
You can exclude all members of a group from using licenses (called license tokens) by specifying 0 licenses for that group.

For example:

- Organize by department:

  If you have departments in your organization, enter each department as a separate group, assign the appropriate number of license tokens to each group, and designate each group member as Included or Excluded. You can change this designation for members as needed, according to work priorities.

- Organize by priority:

  Create a group for preferred users and another group for everyone else. In the preferred user group, designate all members as Included and assign to them as many licenses as you can allow. For the second group, you enter everyone else in the company, assign the remaining license tokens, and designate which people are Included and which are Excluded. You can change the Included and Excluded designations as the work load changes.

When you are ready to implement this arrangement, you can use the Administration Utility provided with the OSG License Manager to create a reservation file, as described in the following steps.

1. On the license manager server, start the license manager Administration Utility from the Windows Start button:

   Start > All Programs > OSG Floating License Manager > Administrator Utility

   The WlmAdmin dialog box is displayed.

2. From the menu at the top of the WlmAdmin window, select Edit > Reservation File.

   The Wlsgrmgr dialog box is displayed.

3. To set up a new members group, select File > New.

4. Follow these steps to select a feature.

   a) Select Feature > Add.

      The Add License Reservation Wizard is displayed.

   b) Click Next to continue.

      The Feature Version Capacity dialog box is displayed.

   c) Enter the appropriate Feature Name.
You must enter feature names as they appear in the WlmAdmin dialog box, shown in the following example.

d) For the Feature Version, enter ORA (upper case).

e) Click Next.

The Group dialog box is displayed.

5. To establish a user group, follow these steps.

a) Enter a name that identifies the user group for which you want to allow or deny access.
b) In the Tokens field, enter the number of licenses to reserve for that group.

c) Click Next.

The Members dialog box is displayed.

6. To add members to the group, follow these steps.

**Note:** You can add members who will be allowed access, as well as members who will be denied access.

a) Click the **Add** button.

The Member dialog box is displayed.

b) Keep the User option selected, shown in the following figure, and enter the member’s name in the **Name of the Member** field. You can define members only by user name and not by Machine.

c) Click **Included** for members who are allowed access or **Excluded** for members who are denied access.
d) Click OK on the Member window and repeat the process to add each user in the group.

e) Click Finish on the Members window to apply the changes and close the window.

7. Repeat the process of selecting a feature, establishing a group, and adding members for each group (steps step 4 on page 29, step 5 on page 30, and step 6 on page 31).

8. Select File > Save As and navigate the directory where the license manager is installed.

By default, the license manager is installed in %ProgramFiles(x86)%/Common Files\SafeNet Sentinel\Sentinel RMS License Manager\WinNT.

The file lsreserv is created and saved at this location. The license manager references this file to determine which users have access to each feature.

9. Restart the Sentinel RMS License Manager, as described in the following steps.

a) Click the Windows Start button and select Control Panel.

b) Click Administrative Tools.

c) Double-click Services.

d) In the Services dialog box, locate and right-click the Sentinel RMS License Manager and select the Restart option on the pop-up menu.

Logging Floating License Usage

Floating license usage is automatically recorded in the file usage.log.

The following example shows how information is formatted in this file.

As shown in the highlighted portions, the entries include:

• 1 - day, date, and time stamp
• 2 - the product or module
• 3 - a code that indicates whether the license was issued (0), denied (1), or released (2)
• 4 - the number of floating licenses in use after the current release or request
• 5 - elapsed time the license was in use (in seconds)
  This value is 0 until the license is released.
• 6 - the user ID
• 7 - the host name
• 8 - the version number for the floating license manager
By default, the usage.log file is located in the folder C:\Windows\SYSWOW64. You can change the location and name of the file, if desired, as described in the following steps.

1. Select the Windows Start menu and select Control Panel > System.

2. In the top left corner, select Advanced system settings.

3. In the System Properties dialog box, select the Advanced tab and click Environment Variables.

4. In the Environmental Variables dialog box, select LSERVOPTS and click Edit.
By default, the value for LSERVOPTS is

```
-l usage.log -z 20m -f error.log
```

5. In the Edit System Variable dialog box, change the path and/or file name by replacing the string `usage.log` with the desired path and file name.

In the following example, the new path for the file is `C:\temp\usage.log`.

6. Restart the license manager in the services list, as described in the following steps.

The change takes effect after the license manager is restarted.

a) Select the Windows Start menu and select **Control Panel > Administrative Tools**.

b) Double-click **Services**.

c) In the Services dialog box, locate and select the **Sentinel RMS License Manager**.
d) Click **Restart** the service option.

For additional information about the usage log, See the *Sentinel System Administrator’s Guide*. After the license manager software is installed, this manual is available by selecting the Windows **Start** menu and selecting **Programs > OSG Floating License Manager > System Administrator’s Guide**.
Appendix A Using SolvNetPlus to Obtain LucidShape Software and Licenses

Software and license keys for the LucidShape family of products are available for download from the Synopsys SolvNetPlus website. This appendix describes how to use the website to download these software products and the license keys required to use them.

**Note:** For customers working with distributors, please contact your local LucidShape software distributor to obtain your software and license. See the Synopsys Optical Solutions Group Global Contacts (https://optics.synopsys.com/support/support-global-contacts.html) page for contact information.

Although the examples in this document show and refer to the LucidShape product, the instructions apply to the entire LucidShape family of products, which includes:

- LucidShape
- LucidDrive
- LucidShape CAA V5 Based

Special terms used in these instructions are explained in the Glossary on page 54.

The process is described in the following procedures:

1. **Signing Up for a SolvNetPlus Account** on page 37
2. **Downloading LucidShape Software from SolvNetPlus** on page 37
   - or
     - **Ordering Media (CDs/DVDs)** on page 40
3. **Installing LucidShape** on page 42
4. **Retrieving License Keys** on page 43

**In this section:**

**Signing Up for a SolvNetPlus Account** on page 37
Before you can download LucidShape software and license keys, you must sign up for a Synopsys SolvNetPlus account.

**Downloading LucidShape Software from SolvNetPlus** on page 37
Follow these steps to download any of the software products in the LucidShape family of products.

**Ordering Media (CDs/DVDs)** on page 40
If you unable to download software and would like to order media (CD or DVD) instead, you can do this directly on the Synopsys SolvNetPlus website.

**Installing LucidShape** on page 42
Instructions for installing LucidShape products and license keys are provided in the following chapters:
Obtaining the Host ID for a License Dongle on page 42
A license key is designed to work for only one USB dongle, so the license key is associated with a unique value encoded on the dongle called a Host ID. Because of this, you need to know the Host ID for the license dongle before you can retrieve a license key.

Retrieving License Keys on page 43
A license key is a file containing licensing information for your specific USB dongle. You can obtain license keys using the SmartKeys web page on the Synopsys SolvNetPlus website.

Signing Up for a SolvNetPlus Account

Before you can download LucidShape software and license keys, you must sign up for a Synopsys SolvNetPlus account.

If you already have a SolvNetPlus account, you can skip to Downloading LucidShape Software from SolvNetPlus on page 37.

During the registration process, you also need to enter your company’s Site ID. If you do not know your company’s Site ID, please contact solvnetplusfeedback@synopsys.com to request it. Be sure to include your company name and address in the email request.

1. Go to https://solvnetplus.synopsys.com and click REGISTER - CREATE ACCOUNT.

2. Follow the instructions for SolvNetPlus Self Registration.
   SolvNetPlus will send a verification code to the email address you specified. You must retrieve the code and enter it on the SolvNetPlus site to complete your registration.

Downloading LucidShape Software from SolvNetPlus

Follow these steps to download any of the software products in the LucidShape family of products.
If you unable to download software, you can order a CD or DVD instead. See Ordering Media (CDs/DVDs) on page 40 for instructions.

1. Go to https://solvnetplus.synopsys.com and enter your User Name and Password to sign in.

2. Click Downloads.

All Synopsys products currently licensed at your company will be listed.

3. Select the product you want to download.

4. Select the version you would like to download.

The Download Details page is displayed, shown in the following figure.
5. Under Release Alerts, click the **Sign up** link to display Release Alerts options that allow you to subscribe to Release Notification emails from SolvNetPlus. These emails let you know when a new version of LucidShape is available for download.

   a) Click the product name for which you would like to receive notifications or click **ALL** to receive notifications for all products in the list.

   b) Click the **Add** button.

   c) Click the **Include patch notifications** check box. This allows you to receive notifications of LucidShape service releases.

   d) Click the **Update** button.

   You are returned to the Download Details page.
6. On the Download Details page, click **Download Here**.
7. On the Notice page, click **Agree and Sign In** to continue.
8. From the list of available files, click the name of the file and then use your browser to open or save the file.

The following figure shows a list of files for LucidShape version 2019.09.

- checksum_info.txt is a file used for internal purposes.
- FloatingLM.exe is for floating license customers. Only the system administrator who will set up a floating license server needs to download this file. See Installing and Managing the OSG Floating License Manager on page 18 for installation instructions.
- README_LucidShape_2019.09.txt provides a summary of key features in the release.
- SetupLucidShape_2019.09.exe is the installation file for LucidShape.

**Ordering Media (CDs/DVDs)**

If you unable to download software and would like to order media (CD or DVD) instead, you can do this directly on the Synopsys SolvNetPlus website.

Follow these steps to order media.

1. Go to [https://solvnetplus.synopsys.com](https://solvnetplus.synopsys.com) and enter your User Name and Password to sign in.
2. Click **Downloads**.
3. Click the **MEDIACENTER** link.
4. On the Media Center page, select the product (e.g., LucidShape, LucidDrive, etc.) and click the **Add** button.

5. Complete the Shipping Address information and click **Continue**.

6. Review the shipping request, shown in the following figure, and click **Place Order**.
Using SolvNetPlus to Obtain LucidShape Software and Licenses

Installing LucidShape

Instructions for installing LucidShape products and license keys are provided in the following chapters:

- **Getting Started** on page 5 - lists LucidShape system requirements and tells you how to contact LucidShape Support.
- **Installing LucidShape** on page 8 - Install LucidShape on a client system and configure the license.
- **Installing and Managing the OSG Floating License Manager** on page 18 - If you are using a floating license, you install the license dongle and license key on a network server. You also install the OSG Floating License Manager on the network server to manage the licenses.

After you install the LucidShape product, continue with **Obtaining the Host ID for a License Dongle** on page 42.

Obtaining the Host ID for a License Dongle

A license key is designed to work for only one USB dongle, so the license key is associated with a unique value encoded on the dongle called a Host ID. Because of this, you need to know the Host ID for the license dongle before you can retrieve a license key.

The Host ID is printed on a label on the USB dongle; if you’re unable to read the ID on the label, you can also obtain the Host ID by running a program that reads it from the dongle; the GetHostID utility is provided for this purpose. See the following steps to run the GetHostID utility.

- If you’re installing a fixed license: **Obtaining the Host ID for a License Dongle** on page 12
Using SolvNetPlus to Obtain LucidShape Software and Licenses

- If you’re installing a floating license: Obtaining the Host ID for a License Dongle on page 24
  After you obtain the Host ID, continue with Retrieving License Keys on page 43.

Retrieving License Keys

A license key is a file containing licensing information for your specific USB dongle. You can obtain license keys using the SmartKeys web page on the Synopsys SolvNetPlus website.

Follow these steps to obtain your license keys.

1. On the SolvNetPlus home page, click Downloads and then click the SmartKeys tab.

   ![SmartKeys Home Page]

2. On the SolvNetPlus SmartKeys Home page, click the Key Retrieval link.

   ![Key Retrieval Page]

   The SmartKeys Key Retrieval page is displayed.
   You can retrieve a license key for a single USB dongle, or you can retrieve license keys for all Host IDs at your company.

3. To obtain a license key for a single USB dongle, enter the Host ID of your LucidShape USB dongle in the Host ID (Optional) field. If you do not know the Host ID value for your USB dongle, see Obtaining the Host ID for a License Dongle on page 42.
   To obtain license keys for all products and all Host IDs at your company, leave the Host ID (Optional) field blank and go on to step 4 on page 43.

4. Click Retrieve Key, shown in the following figure.

   ![Retrieve Key Button]
Your LucidShape license key will be delivered as a text file attached to an email from the SmartKeys system. If you did not enter a Host ID in step 3 on page 43, you will receive a separate email with a single license key attached for each Host ID at your company. The email will include the Host ID for which the license key is valid.

5. Save the license key to a convenient location on your computer. You need to access this file to activate LucidShape.

6. See one of the following procedures for instructions on installing the license key to activate your LucidShape product.
   - Installing a License Key for a Fixed License on page 13
   - Installing a License Key for a Floating License on page 25
Appendix B Troubleshooting the Floating License Installation

If a security problem occurs when you use a LucidShape floating license, a dialog box displays an error message. Below are a few common security errors with their causes and resolutions. If you are unable to correct the problem, contact a LucidShape representative at lucidshape_support@synopsys.com.

In this section:
Problems Installing the License Key Using the Floating License Installer on page 45
Problems Starting LucidShape on page 46

Problems Installing the License Key Using the Floating License Installer

In this section:
Invalid Locking Code on page 45
Sentinel Error on page 46

Invalid Locking Code

Problem
Invalid locking code. Check dongle.

Cause
This could indicate any of the following:
• the license dongle has not been inserted in the USB port
• the USB port is not active
• the Dongle ID in the license file does not match the ID of the inserted Dongle
• the dongle is not valid

Solution
Restart the Sentinel RMS License Manager service. To do this, select Start > Control Panel, click Administrative Tools and then double-click Services. Locate and right-click Sentinel in the dialog box, and select the Restart option on the pop-up menu. Then, insert a valid license dongle in an active USB port (a light glows at the end of the dongle when it’s inserted correctly in an active USB port) and repeat the steps for installing the license key. (See Installing a License Key for a Floating License on page 25 for instructions).
Sentinel Error

**Problem**
Sentinel: Error [19]: Failed to add license code …

**Cause**
This general error message indicates that the license key was not applied successfully in the license manager. This can occur if the file containing the license keys has been corrupted or if license keys that have already been successfully entered are entered a second time.

**Solution**
Verify that the license key file contains license keys for the version of LucidShape being installed, and not for an earlier version; the version number is listed in the comments of the license key file. Also, verify that the license key file has not become corrupted, which could occur if the license key file has been edited (i.e., lines containing license keys are changed or become line wrapped incorrectly).

Problems Starting LucidShape

In this section:
- Error 18b on page 46
- Error 0xC800100D on page 46
- Error 8001008 on page 47

Error 18b

**Problem**
Error #18b - No valid license code for version x.x.x found.

**Cause**
Valid license keys have not been entered for this version of LucidShape.

**Solution**
See Installing a License Key for a Fixed License on page 13 for instructions on installing license keys.

Error 0xC800100D

**Problem**
Error #0xC800100D - License code for LucidShape version x.x.x has expired.

**Cause**
The license keys for LucidShape have expired, or the PC date is before the start date of the license.
Solution

Verify that the date on the computer is correct. Install the license keys for this version of LucidShape on the license sever machine according to the instructions in Installing a License Key for a Floating License on page 25. If new license keys are needed, contact your local distributor or a LucidShape representative at lucidshape_support@synopsys.com.

Error 8001008

Problem

Error #8001008 - License manager is not responding. Verify license manager host is available and license manager process is running.

Cause

The Floating License Manager program has been disabled.

Solution

Restart the license manager program. To do this, select Start > Control Panel, click Administrative Tools and then double-click Services. Locate and right-click Sentinel in the dialog box, and select the Restart option on the pop-up menu.

Cause

The license manager machine is unavailable.

Solution

Verify that the license manager machine is available on the network.

Cause

The name of the license server machine has not been correctly specified.

Solution

In order for LucidShape to use a floating license, you must specify the name of the license server machine in an initialization file on the client machine (i.e., the machine on which LucidShape is installed). For instructions on specifying the license server machine to enable your floating license, see Administering Floating Licenses on page 27.
Appendix C Troubleshooting the LucidShape CAA V5 Based Installation

See the following topics for troubleshooting information if you have a problem with LucidShape CAA or the Light Guide Design Module.

In this section:

Problems Associating LucidShape CAA with the Appropriate CATIA Installation on page 48
You may run into configuration issues when you install LucidShape CAA V5 Based installations if CATIA is not installed on the same computer or if CATIA is managed by a third-party tool that maintains configurations and versions.

Specifying Global Settings for NVIDIA Graphics Card on page 50
If you are using an NVIDIA graphics card, it's essential to set the Global settings as described in the following steps. These settings are required by the CATIA V5 environment in order to run LucidShape CAA V5 Based software.

Troubleshooting the Light Guide Design Module on page 51
See the following topics if you have a problem running the Light Guide Design Module.

Problems Associating LucidShape CAA with the Appropriate CATIA Installation

You may run into configuration issues when you install LucidShape CAA V5 Based installations if CATIA is not installed on the same computer or if CATIA is managed by a third-party tool that maintains configurations and versions.

The following steps are recommended if you encounter problems associating your LucidShape CAA installation with the appropriate CATIA installation.

In this section:

Choose the CATIA Installation Directory in the Setup Wizard on page 49
During the installation process, you are prompted to choose the installation folder with which to associate the LucidShape CAA product. If a CATIA installation folder was detected, the path to that folder is displayed in the input field; however, if CATIA is not installed on the same computer, or if CATIA is managed by a third-party tool that maintains configurations and versions, the input field may be blank.

Manually Create a New CATIA Environment on page 49
If LucidShape CAA is not correctly associated with the CATIA after using the LucidShape Setup wizard, you may need contact the CATIA administrator in your IT department to manually add LucidShape CAA to a different environment, as described in the following steps.
Choose the CATIA Installation Directory in the Setup Wizard

During the installation process, you are prompted to choose the installation folder with which to associate the LucidShape CAA product. If a CATIA installation folder was detected, the path to that folder is displayed in the input field; however, if CATIA is not installed on the same computer, or if CATIA is managed by a third-party tool that maintains configurations and versions, the input field may be blank.

Edit the path or click the Browse button to navigate to the appropriate directory and select it; then, complete the installation instructions. If LucidShape CAA is not correctly associated with CATIA, see Manually Create a New CATIA Environment on page 49.

Manually Create a New CATIA Environment

If LucidShape CAA is not correctly associated with the CATIA after using the LucidShape Setup wizard, you may need contact the CATIA administrator in your IT department to manually add LucidShape CAA to a different environment, as described in the following steps.

1. To open the CATIA Environment Editor, click the Windows Start button and select CATIA > Environment Editor [version].

2. In the Environment Editor, select Environment > New.

3. In the New Environment dialog box, append the LucidShape CAA installation path to the Install Path and click OK.
Troubleshooting the LucidShape CAA V5 Based Installation

If these steps do not resolve the issue, contact LucidShape CAA support at lucidshape_support@synopsys.com.

Specifying Global Settings for NVIDIA Graphics Card

If you are using an NVIDIA graphics card, it’s essential to set the Global settings as described in the following steps. These settings are required by the CATIA V5 environment in order to run LucidShape CAA V5 Based software.

1. Right-click on your desktop and select NVIDIA Control Panel.

2. Select 3D Settings > Manage 3D Settings on the left under Select a Task, shown in the following figure.
3. On the Global Settings tab, set the Global presets to Dassault Systemes - V5 and set the Preferred graphics processor to High-performance NVIDIA processor, as shown in the following figure. If you have only one graphics processor available, the Preferred graphics processor option is not displayed.

4. Click Apply.

Troubleshooting the Light Guide Design Module

See the following topics if you have a problem running the Light Guide Design Module.

In this section:

Verify That the Light Guide Design Module is Linked with LucidShape CAA on page 52
In some situations, the LucidShape CAA V5 Based product appears to have installed successfully, but you may not be able to use the Light Guide Design Module; for example, you may be able to start the Light Guide Design Module but not be able to create a spline curve to start the design process. This may indicate that the Light Guide Design Module is not linked properly with LucidShape CAA.

Set CATIA Option to Preserve Object Naming for the Light Guide Design Module on page 52
Depending on the CATIA Options settings, CATIA may rename objects created by the Light Guide Design Module to avoid having duplicate names in the Specification Tree. When this happens, the Light Guide Design Module can no longer identify those objects or continue to perform operations.
Verify That the Light Guide Design Module is Linked with LucidShape CAA

In some situations, the LucidShape CAA V5 Based product appears to have installed successfully, but you may not be able to use the Light Guide Design Module; for example, you may be able to start the Light Guide Design Module but not be able to create a spline curve to start the design process. This may indicate that the Light Guide Design Module is not linked properly with LucidShape CAA.

To fix this, run the file SetupEnvironment.bat located in the LucidShape CAA installation folder (e.g., C:\Program Files\Synopsys\LucidShapeCAA\R27\2022.06).

If this does not fix the problem, you may not have adequate privileges to automatically perform all the steps needed to properly enable licensing. (Administrator privileges can vary, depending on the configuration for your Windows operating system.) To work around this problem, you can manually run one of the license tools as administrator, as described in the following steps.

2. In Windows Explorer, navigate to the LucidShape CAA V5 Based installation directory on your hard drive and open the sub-folder LicenseTools.
3. Right-click the file lsinit.exe and select Run as administrator on the shortcut menu.

If the problem is not resolved, contact LucidShape CAA support at lucidshape_support@synopsys.com.

Set CATIA Option to Preserve Object Naming for the Light Guide Design Module

Depending on the CATIA Options settings, CATIA may rename objects created by the Light Guide Design Module to avoid having duplicate names in the Specification Tree. When this happens, the Light Guide Design Module can no longer identify those objects or continue to perform operations.

To circumvent this problem, set the CATIA renaming option as described in the following steps.

1. Select the CATIA menu Tools > Options.
2. Expand the Infrastructure heading in the Options tree on the left and select Part Infrastructure.
3. Select the Display tab.
4. Under the heading Checking Operation When Renaming, make sure that No name check is selected, as shown in the following figure.
5. Click **OK**.

6. Restart LucidShape CAA for the change to take effect.

**Note:** The Light Guide Design Module automatically checks the No Name Check option and displays the following warning if it has not been activated.
**Glossary**

**Host ID**
A hexadecimal value encoded on the USB dongle. The Synopsys SmartKeys site and delivery email reference the Host ID value when license keys are requested and delivered.

**License Key**
A file containing the encoded license information needed to run LucidShape products for a specific USB dongle.

**Site ID**
A unique number used to identify a specific company. Every company that uses LucidShape products and other Synopsys software has a unique site ID.

**SmartKeys**
The SolvNetPlus page where you submit license key requests.

**SolvNetPlus**
The Synopsys customer portal (https://solvnetplus.synopsys.com). This is where you go to download LucidShape product software as well as license keys.