

The Reuse Company

SES ENGINEERING Studio: Technical Reference Handbook

By The REUSE Company

Keep the concept of requirements quality and leverage other Systems Engineering activities by providing lifecycle management, traceability management, verification, and validation support.



THE
REUSE
COMPANY

**SES ENGINEERING
STUDIO:
TECHNICAL
REFERENCE
HANDBOOK**

The REUSE Company

2026 Edition



SES ENGINEERING STUDIO: TECHNICAL REFERENCE HANDBOOK

Version 1.9

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Changes History:

Version	Date	Changes
1.0	December 2021	Initial version
1.1	June 2022	New Select Components Window and Silent mode
1.2	July 2022	New version for V22.2.1 – Capabilities selection
1.3	September 2022	New SES ENGINEERING Studio Connectors chapter
1.4	August 2023	New version V23
1.5	January 2024	Word Plugin added (Chapter 3)
1.6	April 2024	New version V23.3
1.7	December 2024	New version V23.4
1.8	May 2025	Including Capella plug-in
1.9	December 2025	New version V23.5

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1 Installation Guide

This document applies to the 23.5 version of the product.

This guide will instruct you on installing SES ENGINEERING Studio. This process can only be done after installing all the licensing parts (FlexLM, TRC Vendor Daemon and Token Manager) in the licensing side and then installing and configuring the SES Server.

There are two ways to install SES ENGINEERING Studio:

- The most typical one is executing the installer with administration rights; an installation wizard will guide you to provide all the necessary parameters to perform the installation and at the end the tool will be installed.
- There is another way to install it from the command line, the silent mode, where all the parameters are provided beforehand, and the installation will be done without any further user interaction.

1.1 Download

First, download the SES ENGINEERING Studio installer from the TRC website. Use your navigator to access <https://resources.reusecompany.com/downloads> and then look for the version of the product you have licensed. Ask our support service if you need help to find it.

1.2 SES ENGINEERING Studio Installation with the Installation Wizard

Execute the installer with administration rights in your operating system. This document will guide you through the different windows of the Installation Wizard step by step.

- Select Setup Language: in this first window you can select the language of the installation wizard. You can choose between English and Spanish.

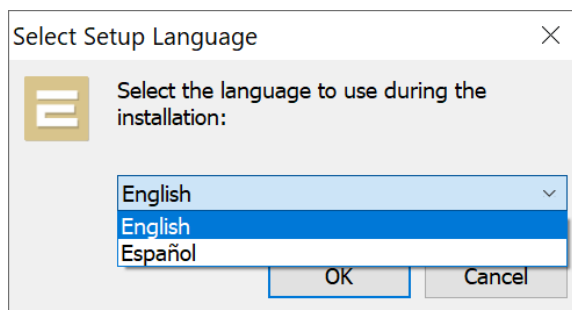


FIGURE 1

NOTE: This language selection is not the language that the SES ENGINEERING Studio user interface will have. The SES ENGINEERING Studio user interface language will rely on your Operating System language, and you can always change it in the Options button of the Connections window or in the File menu of the SES ENGINEERING Studio main window.

- **Welcome:** this window will introduce all the actions to be performed while installing the SES ENGINEERING Studio application. You only must read the instructions and click on the "Next >" button.



FIGURE 2

- **License agreement:** this window will show the license agreement you will need to accept if you want to use the application. Please read it carefully before accepting it, then select the first option below the text and then click on the "Next >" button. However, if you don't agree just click on the "Cancel" button, and this will force the installation wizard to finish, and it won't install the application.

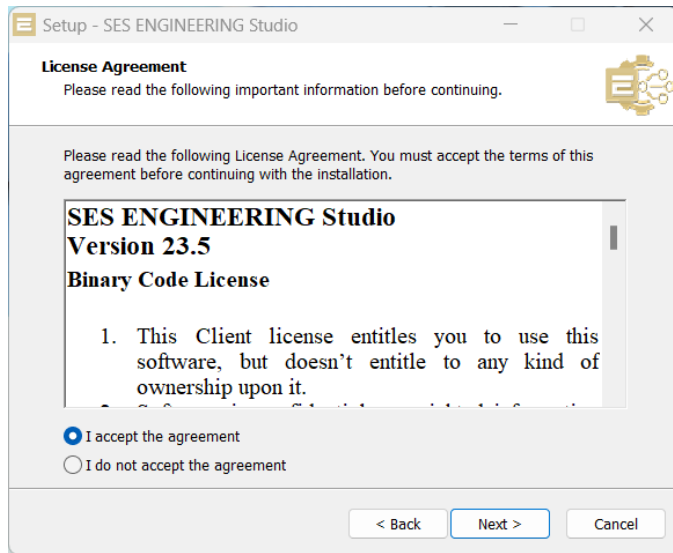


FIGURE 3

- Select the information platform: if your OS is in 64-bits, the installation wizard will give you the chance to select anyway your preferred platform (32- or 64-bit). When selected, click on the "Next >" button.

If your OS is 32-bits, you are not going to see this window. SES ENGINEERING Studio will install.

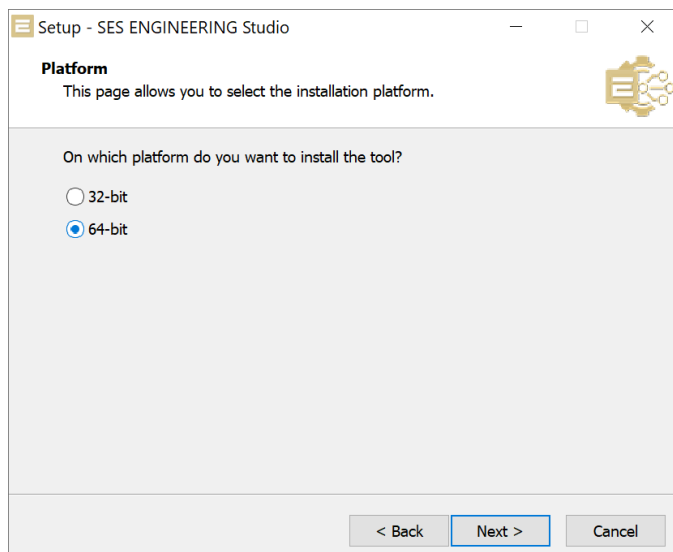


FIGURE 4

- Japanese language support: Select Yes to get the tool for Japanese language support installed.

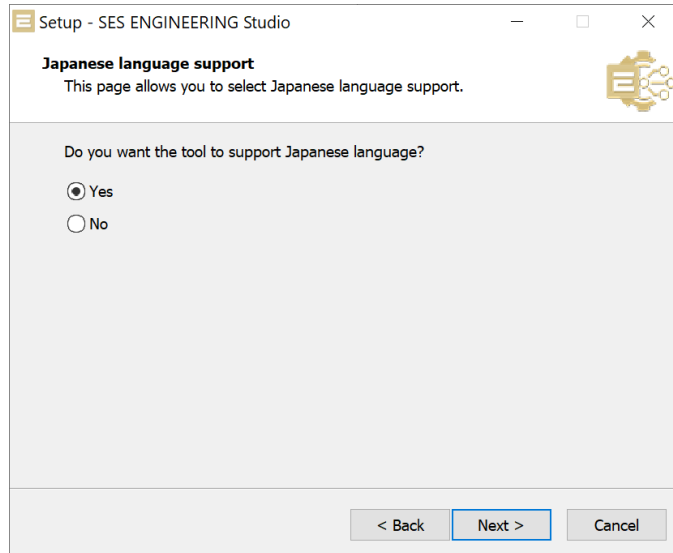


FIGURE 5

- Systems Engineering Suite Server: as described in the installation guide of the SES Server, the SES application will rely on the configuration established in SES Server, so the one and only parameter needed in SES ENGINEERING Studio is where the SES Server is. In this window it will ask for the SES Server computer name or IP address and its port: 16555.

NOTE: it's not possible to change this port when installing SES Server, thus the port configuration here must be 16555.

When these fields are fulfilled, click on the "Next >" button.

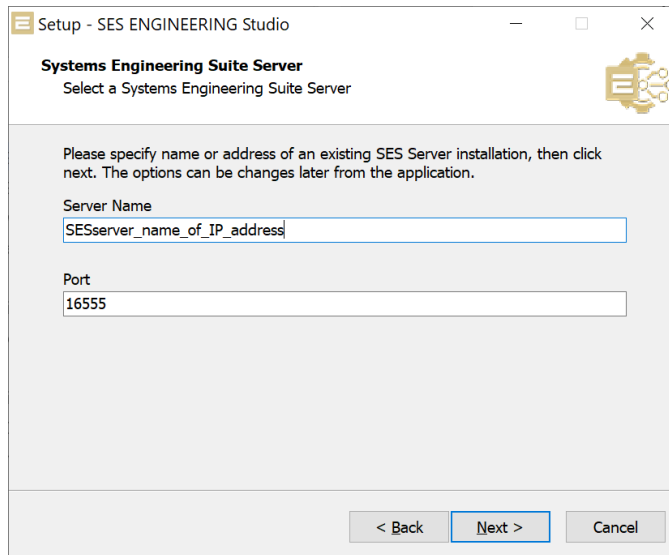


FIGURE 6

- **Select Destination Location:** In this window, you can select the location where the application is going to be installed. By default, it will suggest installing the application in your "Program files" folder under the folder "The REUSE Company". But you can choose any other destination either by typing it in the textbox or by clicking on the "Browse" button on the right-hand side of the location textbox and navigating through your computer storage system to find the suitable location for it.

When the path is selected, click on the "Next >" button.

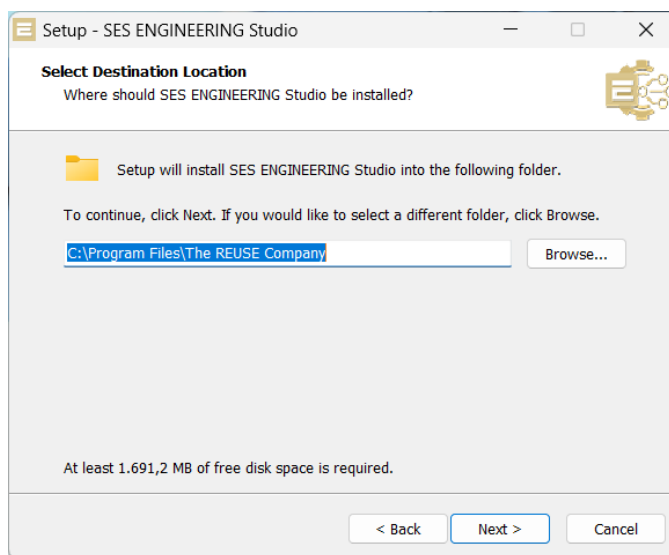


FIGURE 7

- **Select Components:** here you can select the components you need (SES ENGINEERING Studio, Quality Studio, TRACEABILITY Studio, and V&V Studio). The SES ENGINEERING option includes the rest of the capabilities.

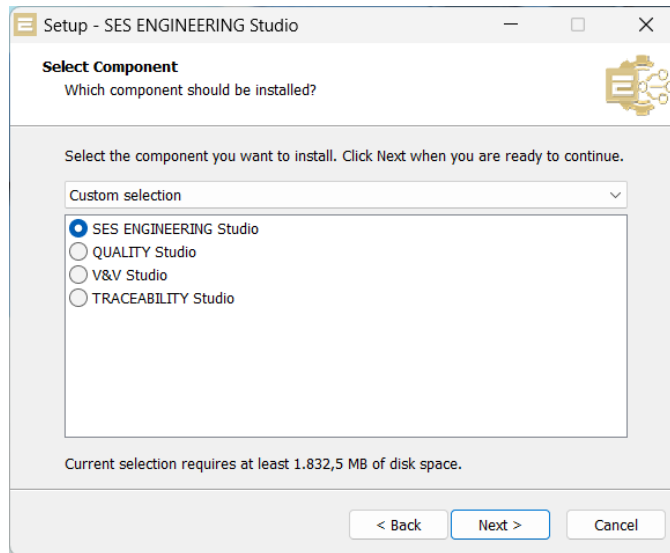


FIGURE 8

- **Select Start Menu Folder:** in this window you will be able to select where, in your Start menu, the shortcuts to the application must be created. By default, the installer proposes to create them under the folder "The REUSE Company":

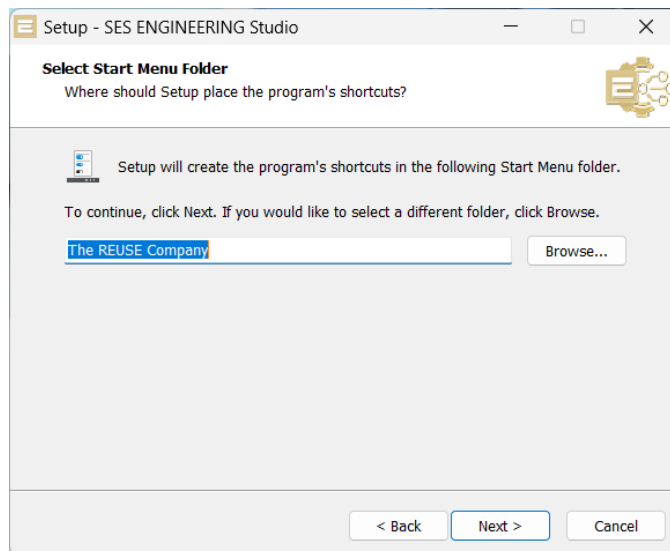


FIGURE 9

- **Ready to Install:** this is the last step before installing the application in your system. It holds a description of the parameters compiled through this installation wizard. If one or more of the parameters are not right for your installation, just click on the "< Back" repetitively until you reach the step to reconfigure your selections. When all the parameters are correct, just click on the "Install" button.

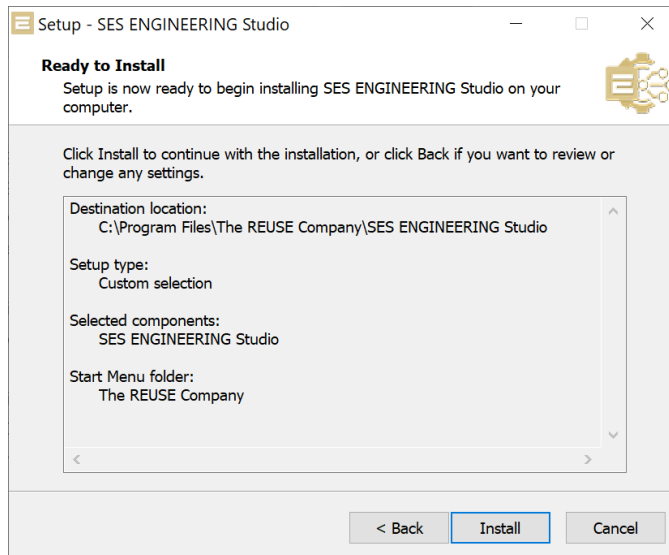


FIGURE 10

- **Installing:** in this window you don't have to do anything but wait until the installation is completed. If you need to cancel the installation for any reason, click on the "Cancel" button. Otherwise, wait until the process is finished, and the wizard will move automatically to the next step.

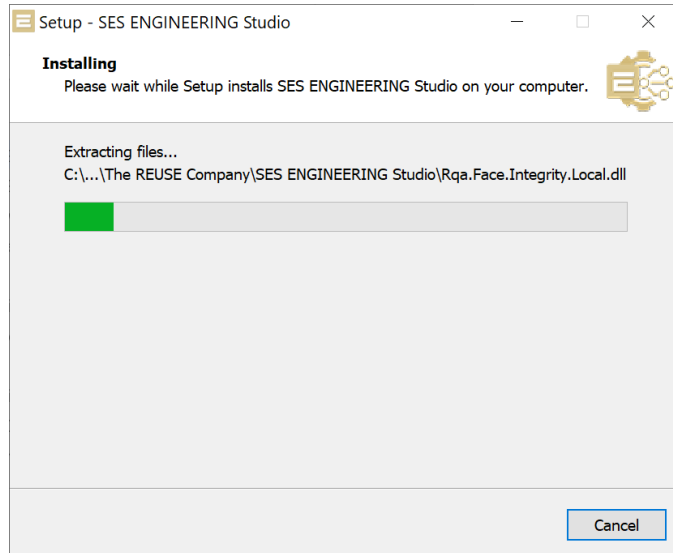


FIGURE 11

- Completing the SES ENGINEERING Studio Setup Wizard: this window appears to notify you when the installation has finished successfully. Just click on the “Finish” button and you will have finished installing the application.



FIGURE 12

1.3 SES ENGINEERING Studio Installation in Silent Mode

The command line with parameters to install it is like this:


```
<FileName>.exe /verysilent /dir="D:\REUSE \EsCustom" /GROUP="ES  
Custom Group" /platform x64 /jp 0 /rqssserver 107.29.16.22 /rqssport  
74447 /COMPONENTS="ES"
```

NOTE: Remember to open the command line window with administration rights, before executing the previous command.

The mandatory parameters are:

- /verysilent: installation mode
- /dir="C:\custom\path\to\install\<install_app>"
- /group="<group_folder_name_windows>"
- /rqssserver: SES Server hostname
- /rqssport: SES Server port
- /components: "comma separated list of component names" (ES, VV, TS, QS)

The optional parameters are:

- /platform: x86 or x64 (this is only available if the system is 64 bit) (The value by default is x86)
- /jp: 0 or 1 (The value by default is True)

Overrides the component settings. Using this command line parameter causes Setup to automatically select a custom type. If no custom type is defined, this parameter is ignored. Only the specified components will be selected; the rest will be deselected.

If a component name is prefixed with a "*" character, any child components will be selected as well (except for those that include the dontinheritcheck flag). If a component name is prefixed with a "!" character, the component will be deselected.

This parameter does not change the state of components that include the fixed flag.

Example:

Deselect all components, then select the "help" and "plugins" components:

```
/COMPONENTS="ES, QS, VV, TS"
```

Example:

Deselect all components, then select a parent component and all of its children with the exception of one:

```
/COMPONENTS="*parent, !parent\child"
```


2 SES ENGINEERING Studio Connectors

SES ENGINEERING Studio may connect to many sources:

- Requirement tools such as DOORS, DNG, Codebeamer, Helix ALM, etc.
- Modelling tools such as Capella, Cameo, Enterprise Architect, Rhapsody.
- Simulation tools such as Simulink
- Function interfaces such as FMI/FMU
- And many others.

TRC has developed the SES ENGINEERING Studio Connectors tool as the consuming APIs from Modelling tools Capella, Cameo and OpenModelica require additional services to communicate SES ENGINEERING Studio with them. If you are not using these tools, you don't need to install them.

In the moment this document is written, SES ENGINEERING Studio Connectors can operate with Capella Common files.

For the Capella connection, there two different strategies:

1. Connecting through the API to the workspace (reading and writing)
2. Read directly the Capella AIRD file through the operating systems operation (read file) and parse the information into SES Engineering Studio (read only).

SES ENGINEERING Studio Connectors include Capella (as a plugin), Cameo (as a plugin), and OpenModelica (integration). The tools must be already installed before installing SES ENGINEERING Studio Connectors.

There are two ways to install SES ENGINEERING Studio Connectors:

- The most typical one is executing the installer; an installation wizard will guide you to provide all the necessary parameters to perform it, and at the end the tool will be installed.
- There is another way to install it from the command line, where all the parameters are provided beforehand, and the installation will be done without any further user interaction.

2.1 Download

First, download the SES ENGINEERING Studio installer from the TRC website. Use your navigator to access <https://resources.reusecompany.com/downloads> and then look for the version of the product. Ask our support service if you need help to find it.

2.2 SES ENGINEERING Studio Connectors Installation with the Installation Wizard

Execute the installer with administration rights in your operating system. This document will guide you through the different windows of the Installation Wizard step by step.

- **Select Setup Language:** in this first window you can select the language of the installation wizard. You can choose between English and Spanish.

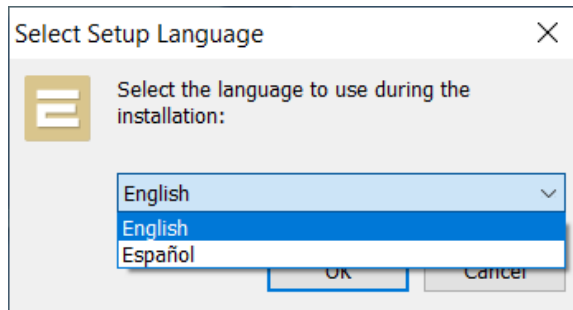


FIGURE 13

- **Welcome:** this window will introduce all the actions to be performed while installing the SES ENGINEERING Studio Connectors application. You only must read the instructions and click on the "Next >" button.

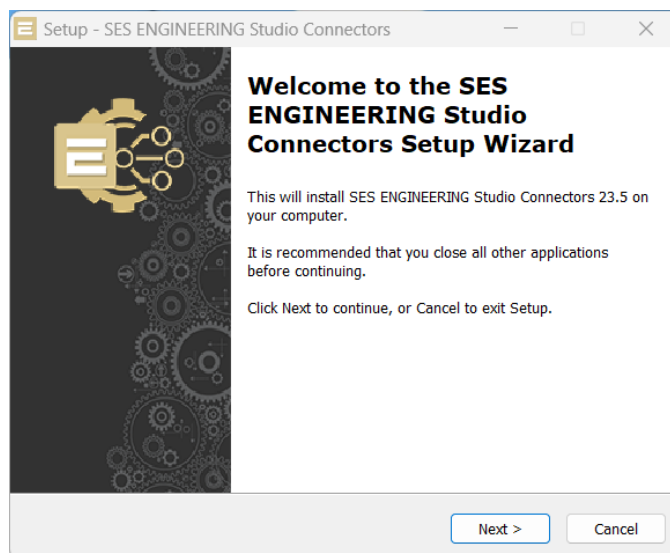


FIGURE 14

- **License agreement:** this window will show the license agreement you will need to accept if you want to use the application. Please read it carefully before accepting it, then select the first option below the text and then click on the "Next >" button. However, if you

don't agree just click on the "Cancel" button, and this will force the installation wizard to finish, and it won't install the application.

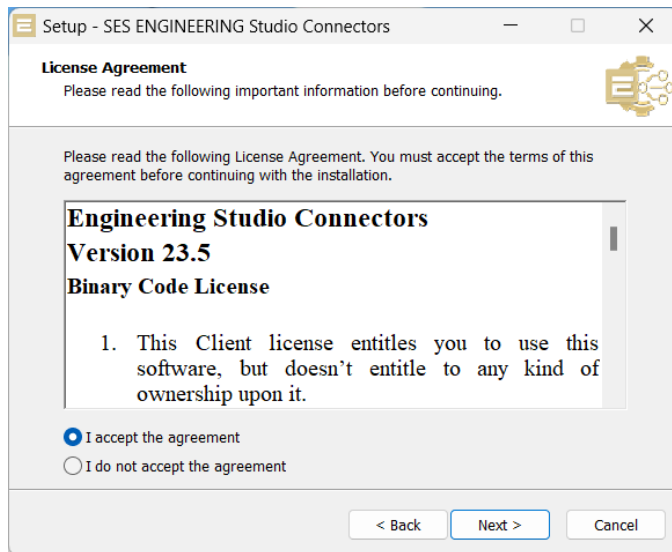


FIGURE 15

- **Select Destination Location:** In this window you can select the location where the application is going to be installed. By default, it will suggest installing the application in your "Program files" folder under the folder "The REUSE Company," but you can choose any other destination either by typing it in the textbox or by clicking on the "Browse" button on the right-hand side of the location textbox and navigating through your computer storage system to find the suitable location for it.

When the path is selected, click on the "Next >" button.

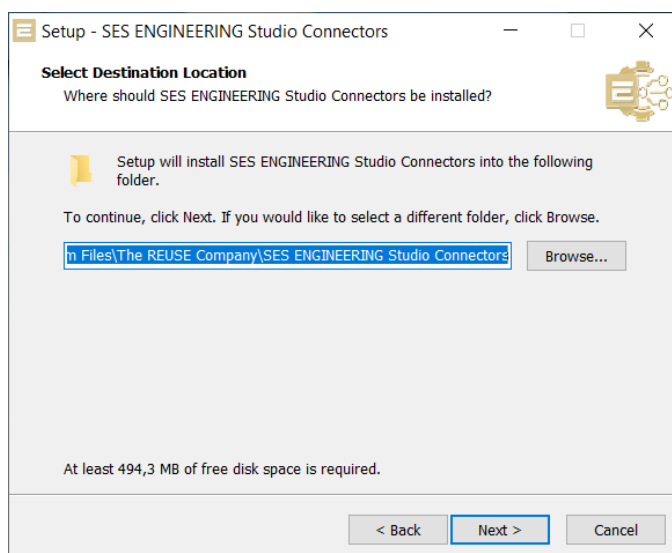


FIGURE 16

- **Select Component:** here you can select the components you need (Common files, Capella plugin and Cameo plugin). The components must be already installed in the system previously.

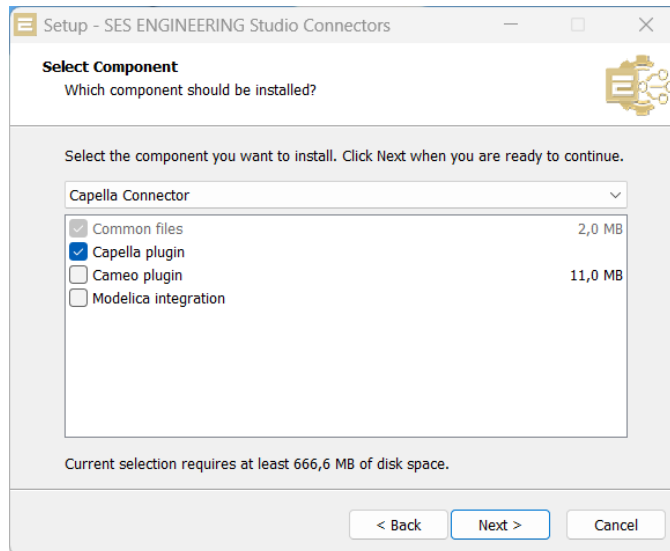


FIGURE 17

- **Select Location(s):** Depending on your selections in the previous screen, you will get different windows where you must provide where the different products are already installed. Use the "Browse" button to navigate within your folders. The next figure is showing one example (for Capella).

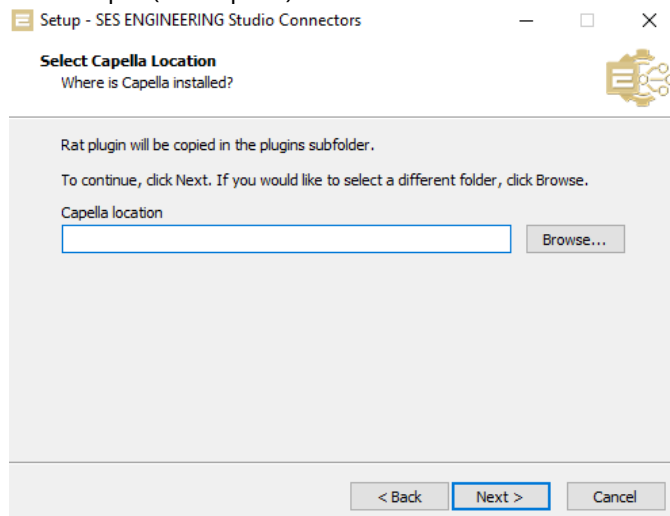


FIGURE 18

- **Select Start Menu Folder:** in this window you will be able to select where, in your Start menu, the shortcuts to the application must be created. By default, the installer proposes to create them under the folder "The REUSE Company":

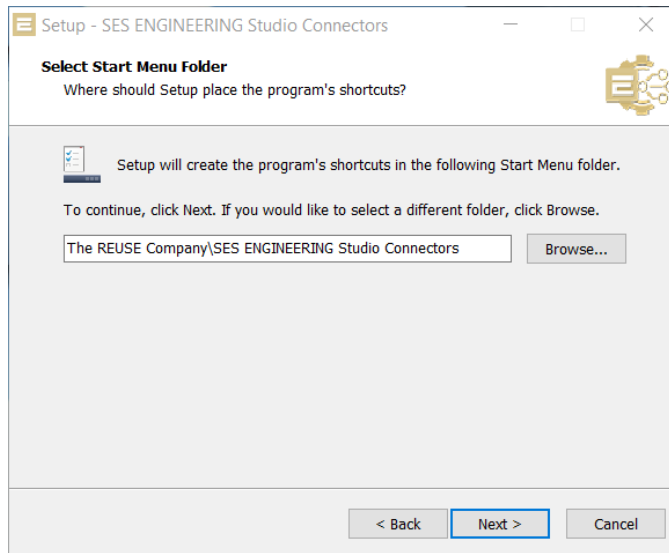


FIGURE 19

- **Ready to Install:** this is the last step before installing the application in your system. It holds a description of the parameters compiled through this installation wizard. If one or more of the parameters are not right for your installation, just click on the "< Back" repetitively until you reach the step to reconfigure your selections. When all the parameters are correct, just click on the "Install" button.

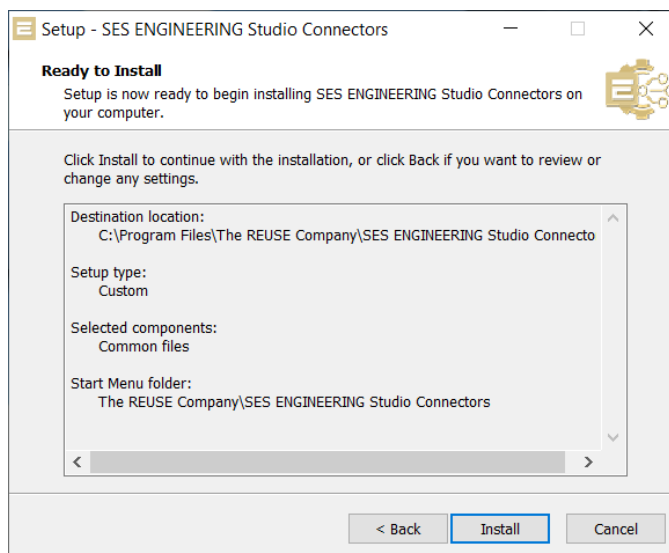


FIGURE 20

- **Installing:** in this window you don't have to do anything but wait until the installation is completed. If you need to cancel the installation for any reason, click on the "Cancel" button. Otherwise, wait until the process is finished, and the wizard will move automatically to the next step.

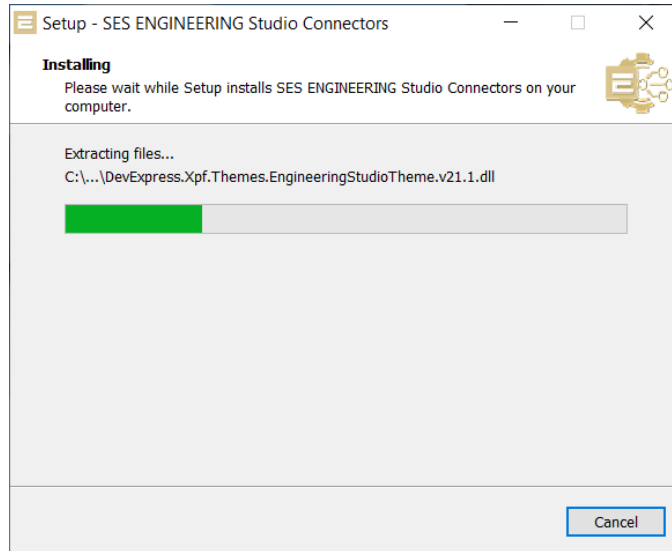


FIGURE 21

- Completing the SES ENGINEERING Studio Connectors Setup Wizard: this window appears to notify you when the installation has finished successfully. Just click on the "Finish" button and you will have finished installing the application.

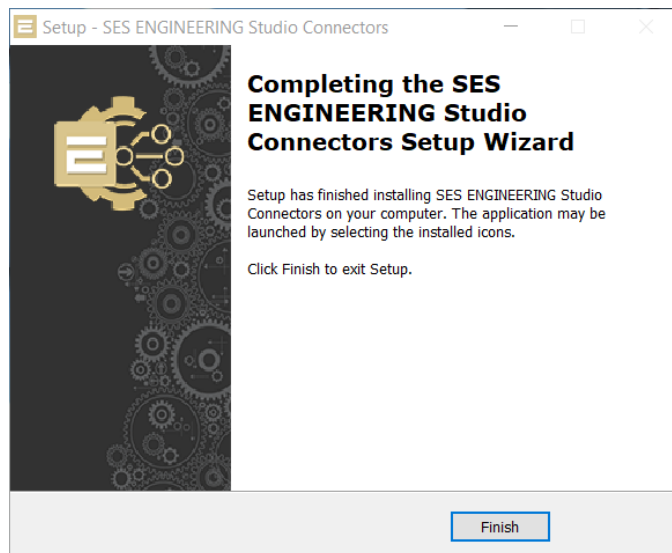


FIGURE 22

2.3 SES ENGINEERING Studio Connectors Installation in Silent Mode

The command line with parameters to install it is like this:


```
<FileName>.exe /verysilent /dir="D:\REUSE \EsCustom" /GROUP="ES  
Custom Group" /components="capella,cameo" /Capellaversion <5,6,7>  
/capellaLocation "<dir>" /cameoLocation "<dir>"
```

NOTE: Remember to open the command line window with administration rights, before executing the previous command.

The mandatory parameters are:

- /verysilent
 - /dir="C:\custom\path\to\install\<install_app>"
 - /group="<group_folder_name_windows>"
- /components: the list may have one or more components, separated with commas, e.g., "capella", "modelica" or "cameo"

The optional parameters are used only for the components the user wants to install:

- /capellaLocation: specifying the complete route of the Capella installation
- /cameoLocation: specifying the complete route of the Cameo installation

3 SES ENGINEERING Studio Word Plugin

SES ENGINEERING Studio can operate inside MS Word, using it as the main tool. To include the plugin as a tab in the main ribbon, you must use the appropriate program, depending if you have a 32-bit or 64-bit configuration.

3.1 Download

First, download the SES ENGINEERING Studio installer from the TRC website. Use your navigator to access <https://resources.reusecompany.com/downloads> and then look for the version of the product. Ask our support service if you need help to find it.

3.2 SES ENGINEERING Studio Word Plugin Installation with the Installation Wizard

Execute the installer with administration rights in your operating system. This document will guide your through the different windows of the Installation Wizard step by step.

- Select Setup Language: in this first window you can select the language of the installation wizard, You can choose between English and Spanish.

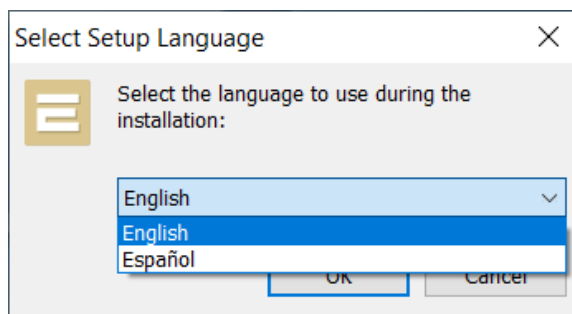


FIGURE 23

- Welcome: this window will introduce all the actions to be performed while installing the SES ENGINEERING Studio Word Plugin application. You only must read the instructions and click on the "Next >" button.

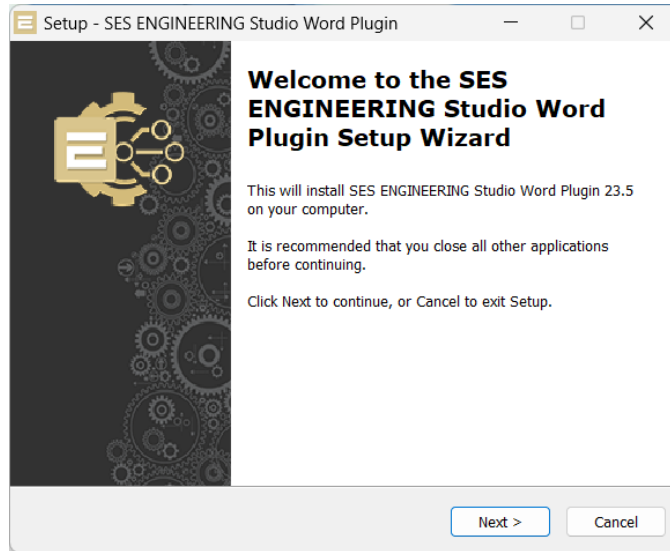


FIGURE 24

- License agreement: this window will show the license agreement you will need to accept if you want to use the application. Please read it carefully before accepting it, then select the first option below the text and then click on the “Next >” button. However, if you don’t agree just click on the “Cancel” button, and this will force the installation wizard to finish, and it won’t install the application.

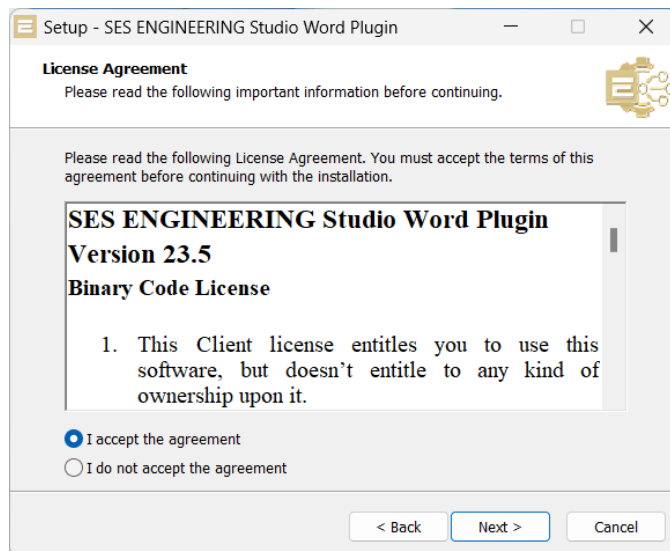


FIGURE 25

- Japanese language support: Select Yes to get the tool for Japanese language support installed.

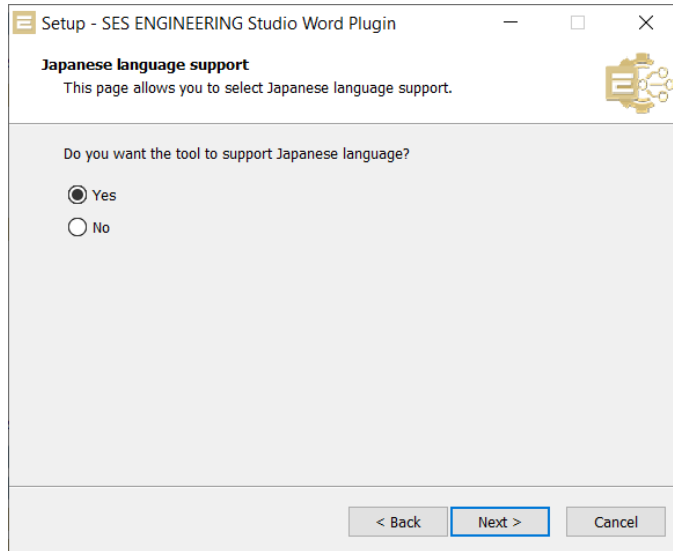


FIGURE 26

- **Systems Engineering Suite Server:** In this window you must select the location of the SES Server and the port.

When the Server Name and port are selected, click on the "Next >" button.

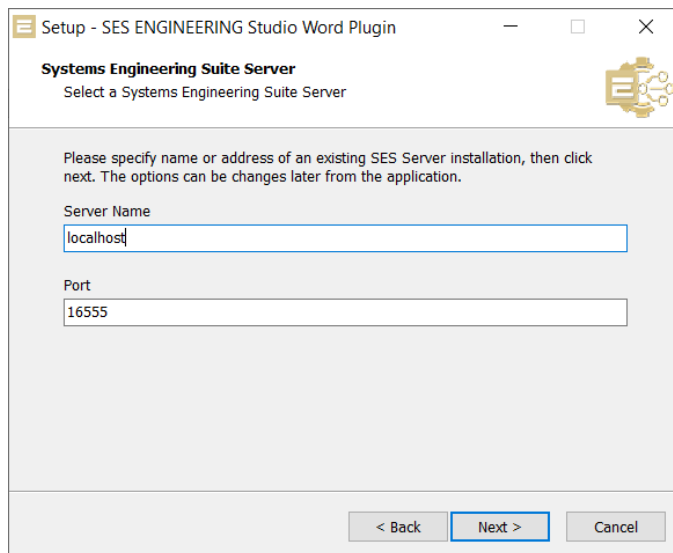


FIGURE 27

- **License Level:** Depending on the license level acquired, select the lite or full version, and click on the "Next >" button.

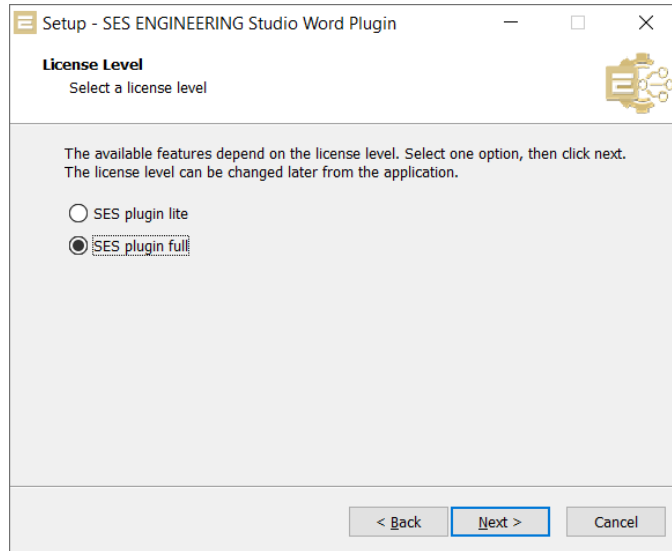


FIGURE 28

- **Select Destination Location:** In this window you can select the location where the application is going to be installed. By default, it will suggest installing the application in your "Program files" folder under the folder "The REUSE Company," but you can choose any other destination either by typing it in the textbox or by clicking on the "Browse" button on the right-hand side of the location textbox and navigating through your computer storage system to find the suitable location for it.

When the path is selected, click on the "Next >" button.

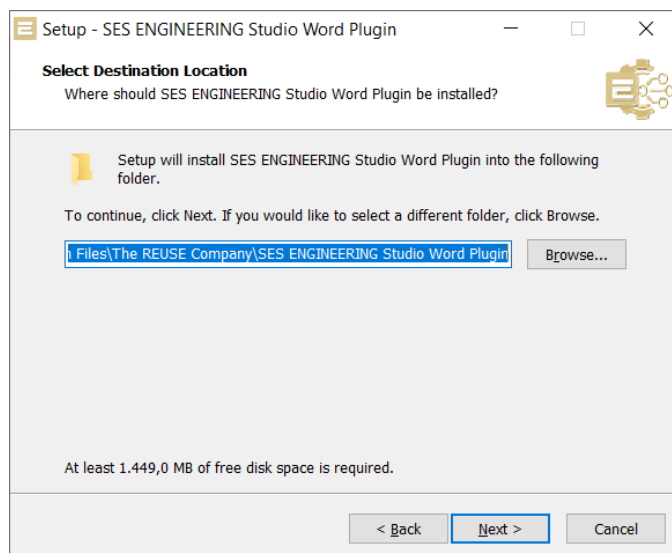


FIGURE 29

- **Select Start Menu Folder:** in this window you will be able to select where, in your Start menu, the shortcuts to the application must be created. By default, the installer proposes to create them under the folder "The REUSE Company":

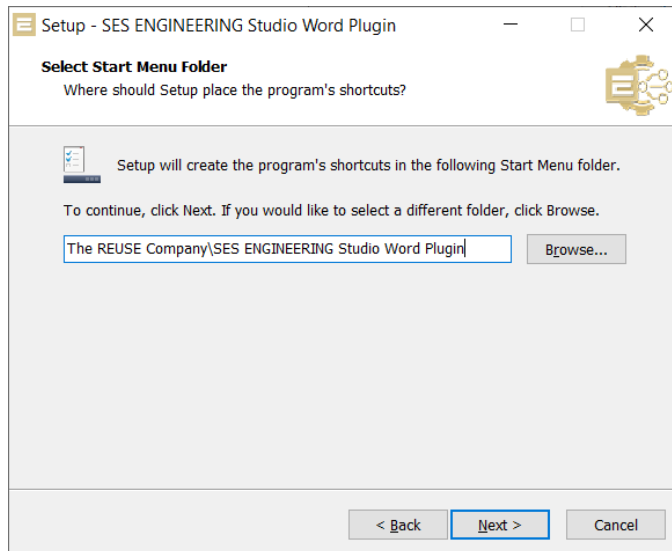


FIGURE 30

- **Ready to Install:** this is the last step before installing the application in your system. It holds a description of the parameters compiled through this installation wizard. If one or more of the parameters are not right for your installation, just click on the "< Back" repetitively until you reach the step to reconfigure your selections. When all the parameters are correct, just click on the "Install" button.

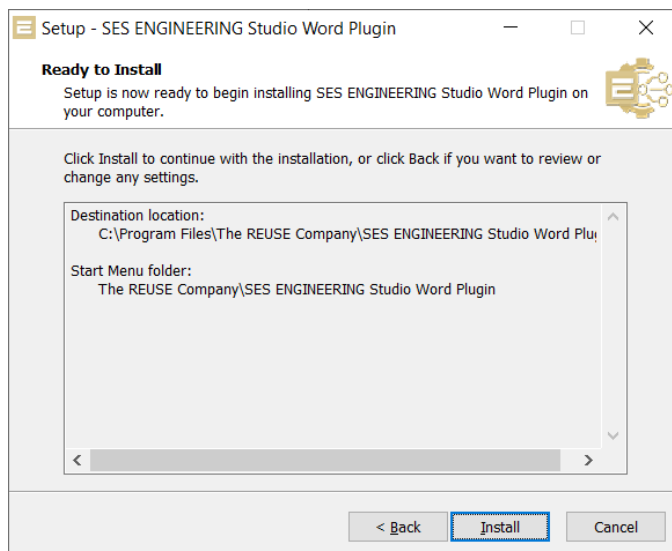


FIGURE 31

- Installing: in this window you don't have to do anything but wait until the installation is completed. If you need to cancel the installation for any reason, click on the "Cancel" button. Otherwise, wait until the process is finished, and the wizard will move automatically to the next step.

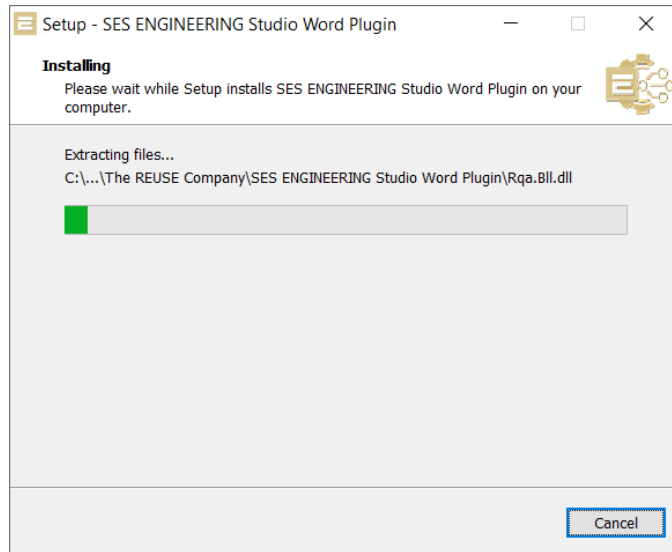


FIGURE 32

- Completing the SES ENGINEERING Studio Word Plugin Setup Wizard: this window appears to notify you when the installation has finished successfully. Just click on the "Finish" button and you will have finished installing the application.

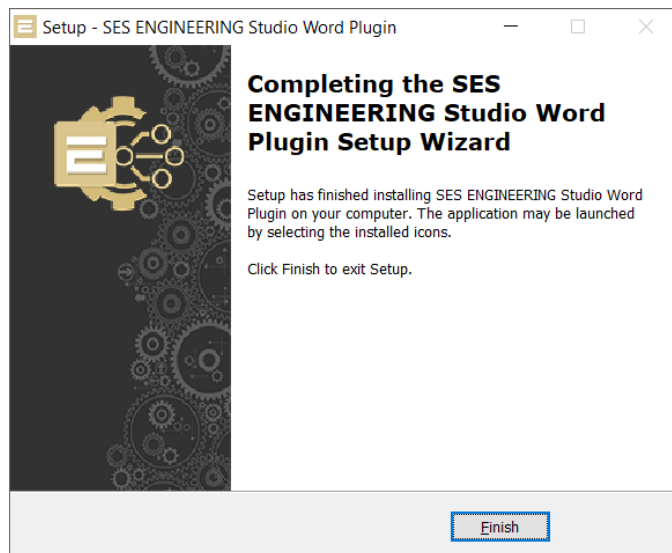


FIGURE 33

3.3 SES ENGINEERING Studio Word Plugin Installation in Silent Mode

The the command line with parameters to install it is like this:

```
SES-ENGINEERING-Studio-Word-Plugin-<version>.exe /verysilent  
/rqssserver <your.host.name> /rqssport <portNumber>  
/licenseLevel <license>
```

The mandatory parameters are:

- /verysilent
- /rqssserver: SES Server hostname
- /rqssport: SES Server port
- /licenseLevel: Indicates whether to use lite edition or full edition
0 for lite edition
1 for full edition

4 SES ENGINEERING Studio Capella Plugin

SES ENGINEERING Studio can operate inside Capella, using it as the main tool. To include the plugin as a tab in the main ribbon, you must use the appropriate program for installation.

4.1 Download

First, download the SES ENGINEERING Studio installer from the TRC website. Use your navigator to access <https://resources.reusecompany.com/downloads> and then look for the version of the product. Ask our support service if you need help to find it.

4.2 SES ENGINEERING Studio Capella Plugin Installation with the Installation Wizard

Execute the installer with administration rights in your operating system. This document will guide you through the different windows of the Installation Wizard step by step.

- **Select Setup Language:** in this first window you can select the language of the installation wizard. You can choose between English and Spanish.

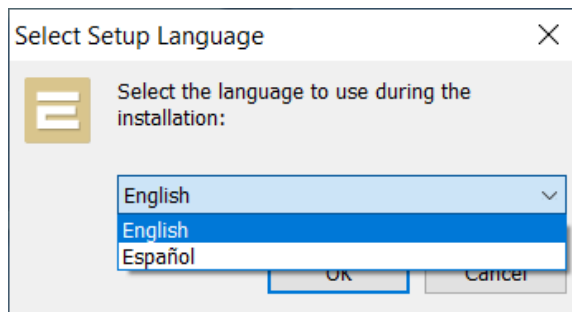


FIGURE 34

- **Welcome:** this window will introduce all the actions to be performed while installing the SES ENGINEERING Studio Capella Plugin application. You only must read the instructions and click on the "Next >" button.



FIGURE 35

- License agreement: this window will show the license agreement you will need to accept if you want to use the application. Please read it carefully before accepting it, then select the first option below the text and then click on the "Next >" button. However, if you don't agree just click on the "Cancel" button, and this will force the installation wizard to finish, and it won't install the application.

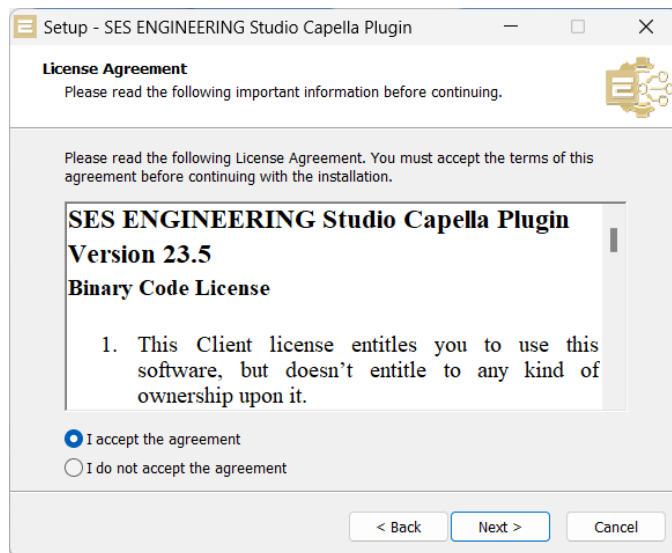


FIGURE 36

- Systems Engineering Suite Server: In this window you must select the location of the SES Server and the port.

When the Server Name and port are selected, click on the “Next >” button.

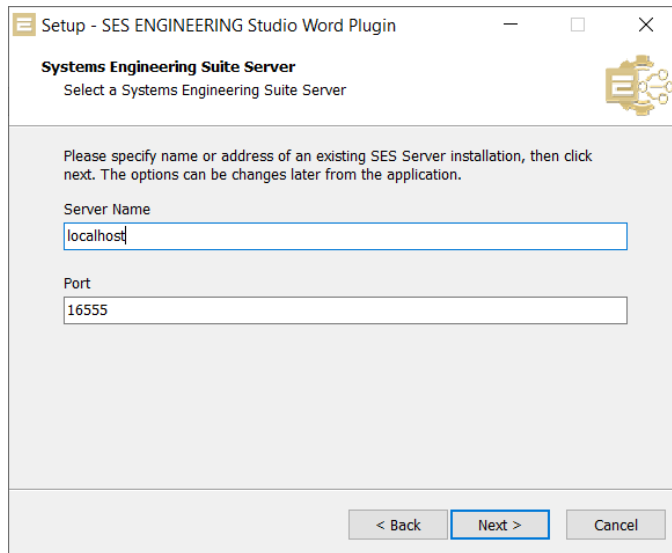


FIGURE 37

- **Select Capella Location:** In this window you can select the location where Capella is installed. Click on the “Browse” button on the right-hand side of the location textbox and navigate through your computer storage system to find the location for it. You can also write the location.

When the path is selected, click on the “Next >” button.

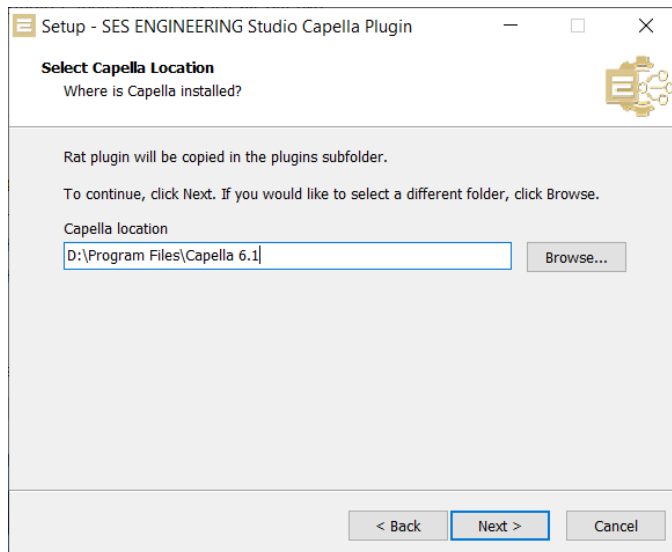


FIGURE 38

- **Select a License Level:** Depending on the license level acquired, select the lite or full version, and click on the "Next >" button.

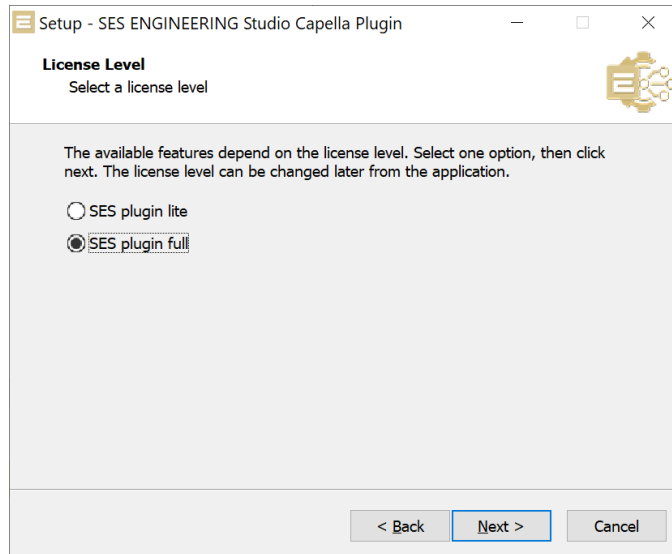


FIGURE 39

- **Select Destination Location:** In this window you can select the location where the application is going to be installed. By default, it will suggest installing the application in your "Program files" folder under the folder "The REUSE Company," but you can choose any other destination either by typing it in the textbox or by clicking on the "Browse" button on the right-hand side of the location textbox and navigating through your computer storage system to find the suitable location for it.

When the path is selected, click on the "Next >" button.

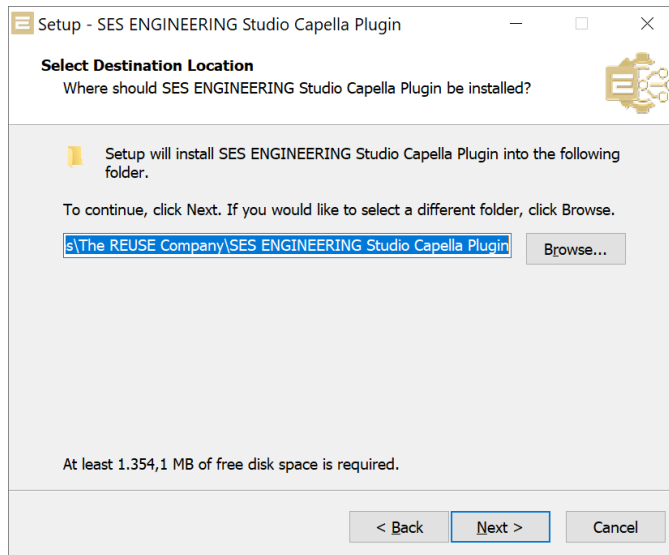


FIGURE 40

- **Select Capella Version:** Choose the Capella version you have from a list of supported versions.

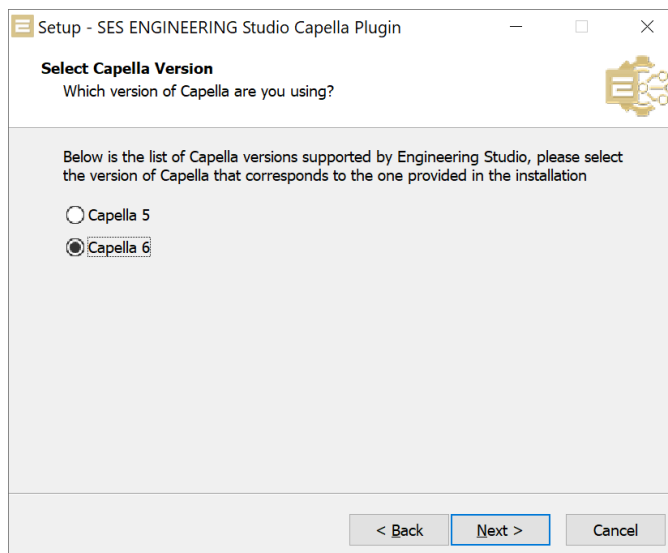


FIGURE 41

- **Select Start Menu Folder:** in this window you will be able to select where, in your Start menu, the shortcuts to the application must be created. By default, the installer proposes to create them under the folder "The REUSE Company":

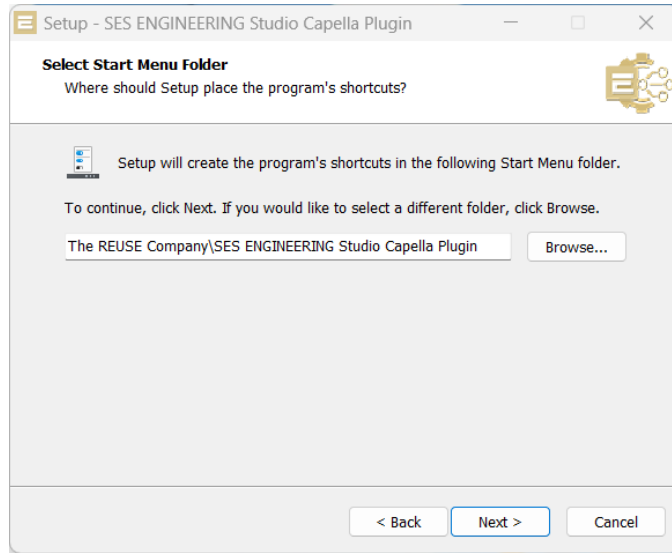


FIGURE 42

- **Ready to Install:** this is the last step before installing the application in your system. It holds a description of the parameters compiled through this installation wizard. If one or more of the parameters are not right for your installation, just click on the "< Back" repetitively until you reach the step to reconfigure your selections. When all the parameters are correct, just click on the "Install" button.

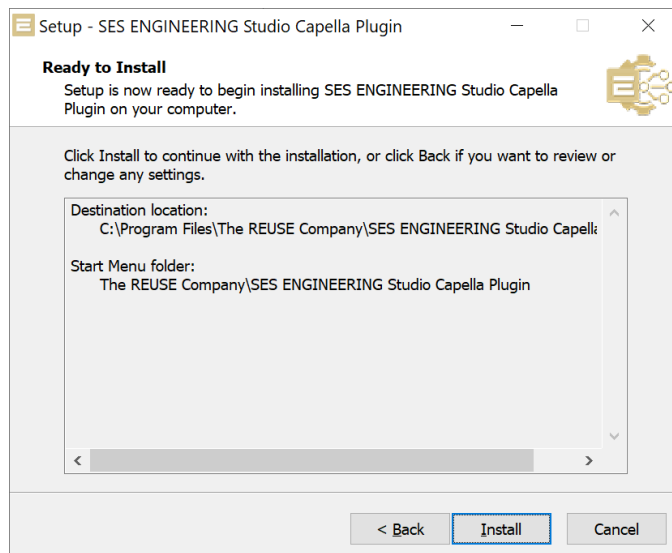


FIGURE 43

- **Installing:** in this window you don't have to do anything but wait until the installation is completed. If you need to cancel the installation for any reason, click on the "Cancel"

button. Otherwise, wait until the process is finished, and the wizard will move automatically to the next step.

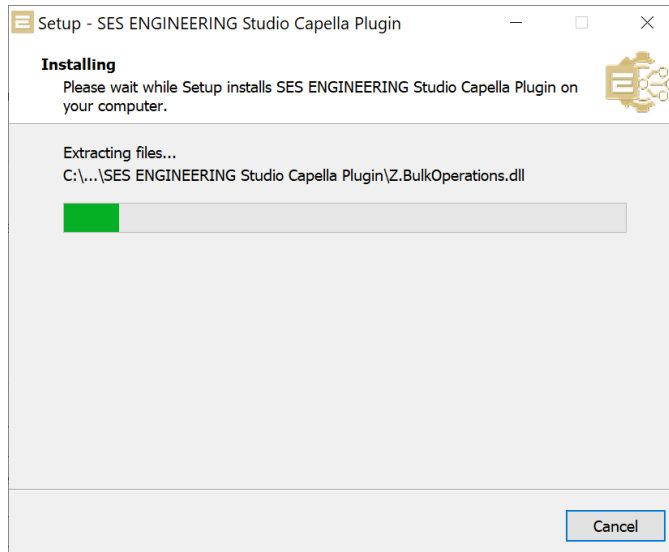


FIGURE 44

- Completing the SES ENGINEERING Studio Capella Plugin Setup Wizard: this window appears to notify you when the installation has finished successfully. Just click on the "Finish" button and you will have finished installing the application.



FIGURE 45

4.3 SES ENGINEERING Studio Capella Plugin Installation in Silent Mode

The command line with parameters to install it is like this:

```
<FileName>.exe /verysilent /dir="D:\REUSE \EsCustom" /GROUP="ES  
Custom Group" /rqssserver <Servername> /rqssport <16555>  
/licenselevel 0|1 /capellaLocation <Capella_Path_location>  
/capellaVersion 5|6".
```

The mandatory parameters are:

- /verysilent
- /dir="C:\custom\path\to\install\<install_app>"
- /group="<group_folder_name_windows>"
- /rqssserver: SES Server hostname
- /rqssport: SES Server port
- /licenselevel: License edition for Capella plugin
 - o 0: Lite
 - o 1: Full
- /capellaLocation: specifying the complete route of the Capella installation
- /capellaVersion: specifying the Capella version 5 or 6

The REUSE Company

The REUSE Company is an organization specialized in the application of Semantic Representation and Analysis Technologies to a wide range of industries (Aerospace, Defense, Automotive, Naval, Health, ...). Our customers are usually (but not limited to) safety-oriented organizations.

Our focus is on System/Software Reuse, Traceability and Quality applied to all types of work-products throughout the whole SE lifecycle (requirements, SysML Models, physical models, tests cases, data results, manuals, natural language descriptions, fault trees, etc.). The integration of tools and technology from The REUSE Company facilitates the representation, analysis and exploitation of knowledge allowing for a knowledge-centric system engineering approach.

Our mission is to promote system/software and knowledge reuse within any organization, by offering processes, methods, tools, and services that make it possible. We offer technology that is fully integrated within the organization's production chain.

