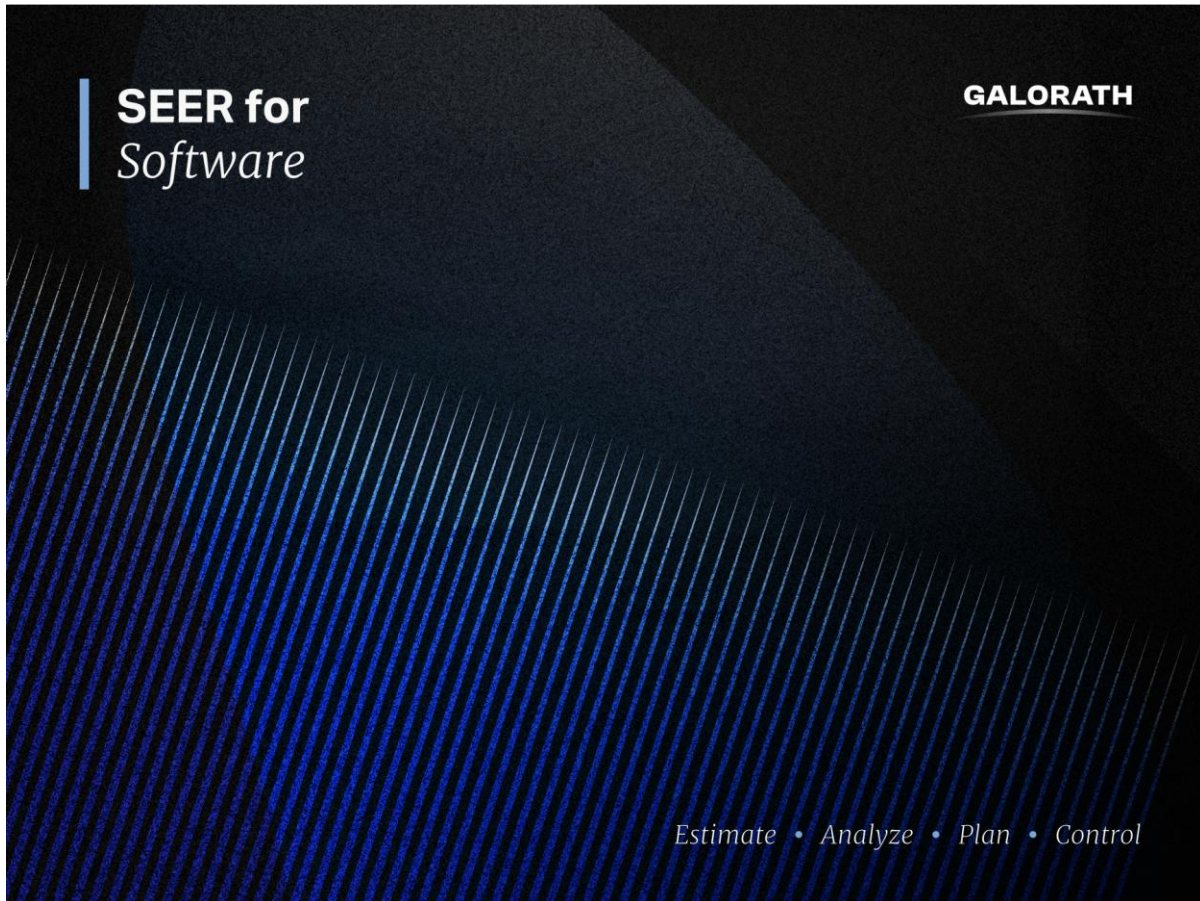


Technical Installation Guide

SEER for Software



GALORATH INCORPORATED

2026

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Technical Installation Guide

SEER for Software

Introduction

This installation guide describes the available options for installing the SEER for Software application. It includes topics such as basic system requirements, general installation options, and technical installation details.

It is intended to guide the reader through the process of installing and maintaining SEER for Software (SEER-SEM) on the following operating systems:

- Windows 10 or Windows 11
- Windows Server 2016, Windows Server 2019, Windows Server 2022, or Windows Server 2025

Icons are used throughout the installation guide to highlight important points in the installation, configuration, and deployment process. Below is a list of the icons you will encounter:



Hints



Useful Information



Caution



Warning



Good practice



Bad practice

SEER for Software Product Line

The software products you receive depend on your SEER for Software Edition.

SEER For Software	Estimator Edition	Project Manager	Studio Edition	Estimating Essentials	Program Essentials
SEER for Software Core (SEER-SEM)	✓	✓	✓	✓	✓
SEER-SEM Standard Configuration	✓	✓	✓		
SEER-SEM Commercial Configuration				✓	✓
SEER-SEM Browser Interface*				✓	✓
Estimate by Comparison	✓	✓	✓	✓	✓
Metrics Analysis & Benchmarking	✓	✓	✓	✓	✓
Microsoft Project Integration		✓	✓	✓	✓
Project Monitoring & Control		✓	✓		✓
ISBSG Database			✓		

SEER For Software	Estimator Edition	Project Manager	Studio Edition	Estimating Essentials	Program Essentials
Enterprise Shared Database		✓*	✓*	✓*	✓*
SEER-HD (both SQLite and SQL) *	✓	✓	✓	✓	✓
SEER-HDA *	✓	✓	✓	✓	✓

* *Installation details provided in separate guides.*

* Installing the Enterprise Shared Database is optional. The current release of Enterprise Shared Database has been tested for use with Microsoft SQL Server (2014, 2016, 2017, 2019, 2022, & 2025) and Microsoft SQL Server Express. If you would like more information on the installation and configuration of Enterprise Shared Database, please contact Galorath to request a SEER Database Admin Guide.

Edition Installation Order

Installing a complete SEER edition typically requires that you follow a specific installation order. Assuming you have the SEER Edition installation files on your computer, the installation order is described below.

- 1) Install SEER-SEM - Run the 'Setup.exe' in the SEER-SEM folder. Once the SEER-SEM installation is complete, proceed to install SEER-HD.
- 2) Install SEER-HD – if installation did not begin during the SEER-SEM installation, you can manually start the process by running the 'Setup.exe' in the SEER-HD folder
 -  For detailed installation information please review the *SEER-HD installation guide*.
- 3) (OPTIONAL) Install SEER-HDA – Run the 'Setup.exe' located in "SEER-HD\SEER-HDA" subfolder.
 -  For detailed installation information please review the *SEER-HDA installation guide*.

What you Need

- Administrative Privileges
- Minimum System Requirements
- The SEER for SEM installation files; usually downloaded from <https://seerbygalorath.com/oss8/users/>, or supplied on a CD-ROM
- A valid SEER license that is typically sent to users via email

Minimum System Requirements

Item	SEER-SEM Standard/Commercial Configuration
Disk Space	Server Installation: 302 MB Local Installation: 302 MB minimum, up to 332 MB
Memory	2 GB minimum, >4 GB preferable
Operating System	Windows 64-bit 11, 10 and Windows 64-bit Server (2016, 2019, 2022, 2025) .NET Core 8.0 (i.e., Microsoft Windows Desktop Runtime – 8.0.26 (x64)) Microsoft Visual C++ Redistributable for Visual Studio 2017-2026 (x64) (i.e., Microsoft Visual C++ v14 Redistributable (x64) - 14.50.35719)
Optional	MS Project 2010 or higher (for exporting projects to MS Project) SQL Server (2012, 2014, 2016, 2017, 2019, 2022, 2025) for the Enterprise Shared Database (refer to the SEER Database Admin Guide for details) Note: SEER Metrics and SEER Compare are included in this estimate

Item	MSP Integration
Disk Space	106 MB
Memory	256 MB minimum, >512 MB preferable
Operating System	Windows 11, 10 and Server (2016, 2019, 2022, 2025) Microsoft Visual C++ 2022 Redistributable (x86 or x64 depending on MS Project version)
Software	MS Project 2010 or higher SEER-SEM 8.5 or higher

Item	SEER-HD & SEER-HD Upgrader
Disk Space	51 MB
Memory	256 MB minimum, >512 MB preferable
Operating System	Windows 64-bit 11, 10 and Windows 64-bit Server (2016, 2019, 2022, 2025)

Item	SEER-HDA
Disk Space	238 MB
Memory	256 MB minimum, >512 MB preferable
Operating System	Windows 64-bit 11, 10 and Windows 64-bit Server (2016, 2019, 2022, 2025)

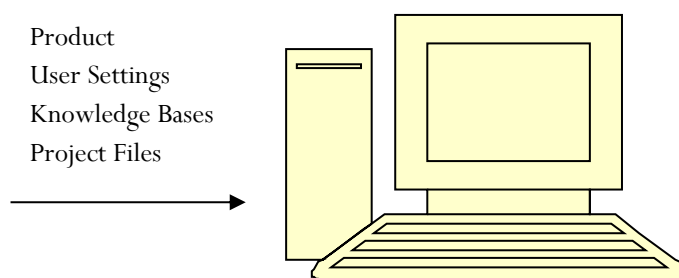
General Installation Options

Choosing the best configuration for your organization will depend on several factors. For example, the number of users, requirement for shared data, integration with other systems, and organizational IT policies may influence the decision. As you begin the installation process, you will be required to choose one of the following installation options.

Options	Description
Local	All files are installed to the local PC. All the work is done on the local PC.
Server	All files are installed onto the Server. The SEER application is then typically executed from a remote computer either through a Client install (see below), or through a thin client application such as Citrix.
Client	Individual user settings, shortcuts and links to the networked server are setup on the local machine. The SEER executable, knowledge bases, project files, etc. remain on a networked server.

Local

The local install option installs all aspects of the solution to the local machine.



The default configuration of a local installation places the Sample Projects, Tools, Knowledge Bases, and Flexible Export Templates (classified as Document files) on each user machine.

👉 If you plan to have a small number of local install users, or a small number of users running SEER on a single machine, Galorath recommends configuring the product so that knowledge bases and project files are stored in a common area on the machine or on a network server.

SEE ALSO:

[LOCAL INSTALLATIONS](#)

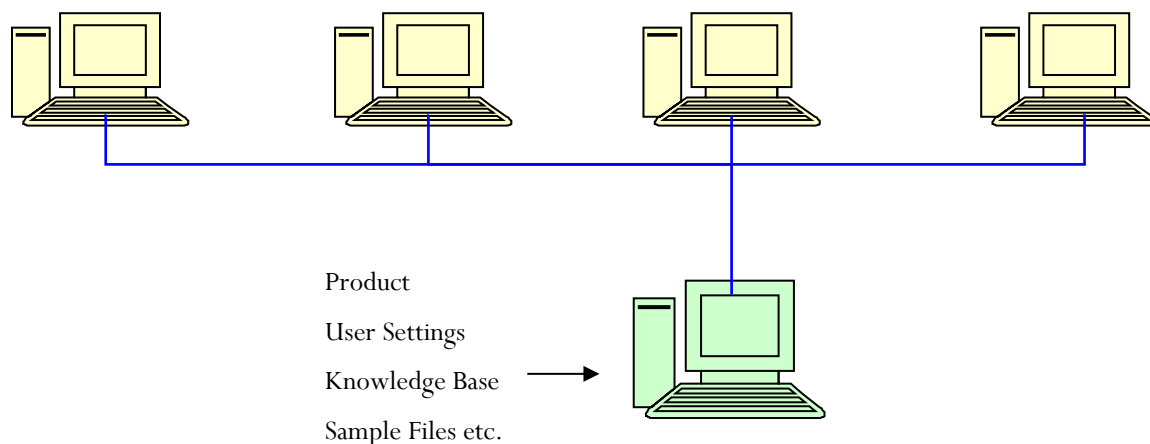
👉 [CONFIGURE SEER SO ALL LOCAL USERS SHARE A COMMON DATA SET](#)

Server

In this option, all aspects of the main product are installed on a networked server. A server installation is generally done for one of two reasons:

1. To support a networked/client configuration (see next option)
2. To run the SEER product as a “server” to other applications

The product, user settings, project files, and knowledge bases are installed on a shared server location. This option is equally valid for one user or multiple users. A fully remote installation means that no setup or full installation of the SEER product is needed on local machines; only Client installs are needed on the local machines (see next section).



This option allows for uniform knowledge bases, project files, and export templates among a large group of users (Clients). During maintenance upgrades, only the Server copy of SEER requires updating making maintenance easier when there are multiple users. ⚠️ Issues related to read / write access (for connected clients), and security need to be considered.

SEE ALSO:
SERVER INSTALLATIONS

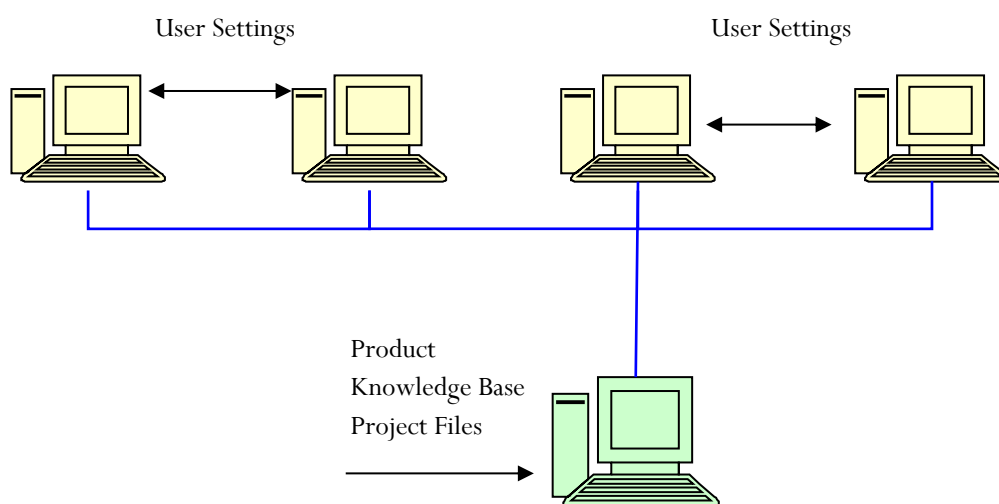
Client

In this option, it is assumed that the main SEER product already exists and is installed on a remote machine, typically a networked server (see previous section). If not, the Client cannot complete the installation. This installation sets up a user area on the local machine to manage client specific user settings. The client install registers the location of the remote server installation on the client machine, so SEER can be invoked as an automation call from the remote computer.

The remote installation is referenced and used for execution on the local PC. This "Client" install is not true server/client architecture. The executable is read from the remote computer, but is loaded and executed from the memory of the local PC. This isolates the CPU load to the local PC, minimizing the demands on the server. This option is equally valid for one user or multiple users.

SEE ALSO:

CLIENT INSTALLATIONS



Pre-Installation Configuration Options

Before starting installation, there are some setup options you may wish to consider. You can configure how Document files (Knowledge Bases, templates, project files, tools files, etc.) are installed, and configure the default program paths and other settings.

Note. This type of customization is typically done before distributing SEER out to a group of users.

Document Files

The default installation configuration will install a complete set of Document files into the chosen installation directory. If you have additional and/ or custom document files that you would like to include with the new installation, you may copy them into the respective Document folders before installation:

[INSTALLATION FILES PATH]	Comments
<i>\\DOCUMENTS\\EXPORT TEMPLATES</i>	Copy custom Export Template files into the Export Templates Folder.
<i>\\DOCUMENTS\\INFLATION TABLES</i>	Copy custom Inflation Table files into the Inflation Tables Folder.
<i>\\DOCUMENTS\\KBASES</i>	Copy custom KBase files into the Kbases Folder.
<i>\\DOCUMENTS\\PROJECTS</i>	Copy custom Project files into the Sample Projects Folder.
<i>\\DOCUMENTS\\SCENARIOS</i>	Copy custom Scenario files into the Scenarios Folder.
<i>\\DOCUMENTS\\TOOLS</i>	Copy custom Tools files into the Tools Folder.

You can modify the *[INSTALLER FILES PATH]\\SETUP.INI* file to customize how custom document files are to be installed.

SETUP.INI	Options
CustomAppData	ON = Will only install files from the AppData folder, no additional Application Data files will be installed from the Data1.CAB file. OFF [default setting] = Will install files from the Data1.CAB file, and any additional files in AppData folder.
CustomExportTemplates	ON = Will only install files from the Documents\\Export Templates folder, no additional Export Template files will be installed from the Data1.CAB file. OFF [default setting] = Will install files from the Data1.CAB file, and any additional files in Documents\\Export Templates folder.
CustomInflationTables	ON = Will only install files from the Documents\\Inflation Tables folder, no additional Inflation Tables files will be installed from the Data1.CAB file. OFF [default setting] = Will install files from the Data1.CAB file, and any additional files in Documents\\Inflation Tables folder.

CustomKbases	ON = Will only install files from the Documents\Kbases folder, no additional KBase repository files will be installed from the Data1.CAB file. OFF [default setting] = Will install files from the Data1.CAB file, and any additional files in the Documents\Kbases folder.
CustomProjects	ON = Will only install files from the Documents\Projects folder, no additional Sample Project files will be installed from the Data1.CAB file. OFF [default setting] = Will install files from the Data1.CAB file, and any additional files in Documents\Projects folder.
CustomScenarios	ON = Will only install files from the Documents\Scenarios folder, no additional Scenario files will be installed from the Data1.CAB file. OFF [default setting] = Will install files from the Data1.CAB file, and any additional files in Documents\Scenarios folder.
CustomUtilities	ON = Will only install files from the Documents\Tools folder, no additional Tools files will be installed from the Data1.CAB file. OFF [default setting] = Will install files from the Data1.CAB file, and any additional files in Documents\Tools folder.

 Caution. It is essential to keep track of your installation type and options, especially for future upgrades. Any time the default settings are used in an install, the latest Data1.CAB files will always be installed. Hence, if you wish to maintain only a subset of your custom files in these document folders, you need to always set the Custom settings ON.

Help Files

The default installation configuration will install a complete set of Help files into the chosen installation directory. If you have custom html help files that you would like to be installed, you may copy the html help files into the respective Help and/or ParameterHelp folders. Your custom help files will overwrite the default SEER help html files.

[INSTALLATION FILES PATH]	Comments
<i>HELP</i>	Copy custom Help files into the Help folder.
<i>PARAMETERHELP</i>	Copy custom Parameter Help files into the ParameterHelp folder.

AppData

The default installation configuration will install the default SEER-SEM SETTINGS.INI from the DATA1.CAB file. If you want to configure the SEER-SEM SETTINGS.INI before installation you need to:

- Modify the *[INSTALLER FILES PATH]\SETUP.INI* by changing the CustomAppData flag to ON.
- Modify the *SEER-SEM SETTINGS.INI* in the *[INSTALLER FILES PATH]\APPDATA* folder.

 Caution. If you set *[FIRST-TIME-INIT-AND-UPGRADES]* conditions, be sure they match the type of install you plan on using. For Local installs, all options are typically set to 1. For Server and Client installs, all options are typically set to 0.

Local Installations

Choose this option to install all aspects of SEER-SEM onto a single machine.



Quick Install Process

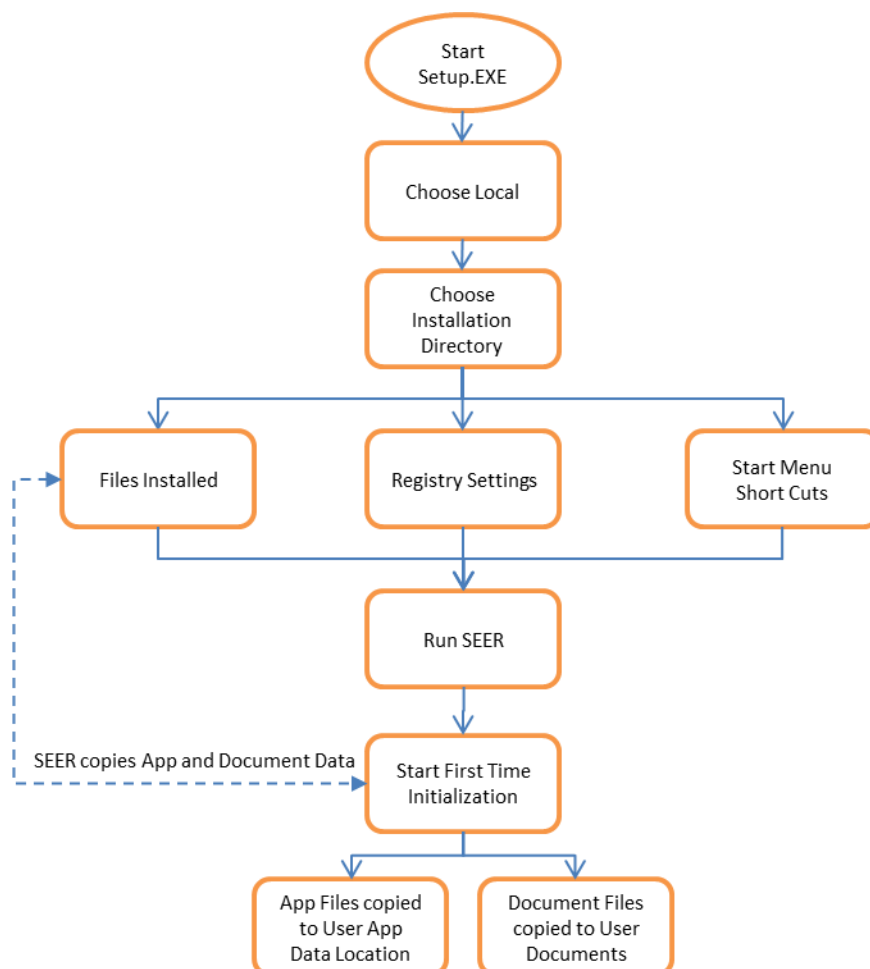
1. Start the SETUP.EXE file
2. Choose the Local option
3. Choose an installation directory (default = *c:\Program Files\SEER\SEER-SEM X.X*)
4. The installation package manages the entire process, once completed you can begin using SEER.

Detailed Information

During the installation process, the installer installs all the necessary application files, writes registry settings, and creates start menu short cuts. The following details explain the entire installation process, and what happens during first time initialization of the SEER application.

SEE ALSO:

OTHER TECHNICAL INSTALLATION DETAILS



Default Installation Configuration

The default configuration of a local installation is to install all files into the chosen installation directory. When a user logs onto the machine and runs SEER, SEER will copy a complete set of Application Data and Document Data files to the user's local profile.

 Each user that runs SEER on the machine will get their own set/copy of Application Data and Document Data files during first time initialization. By default each user will use his own set of Application and Document data. This may or may not be preferable. Administrators can configure the SEER application so that all users share a common set of Application Data and Document Data files (see details below).

 Galorath recommend that multiple users share a common set of Application Data and Document Data files to promote consistency when developing estimates and sharing models.

SEE ALSO:

APPENDIX – SEER-SEM 8.6 FILE MANIFEST

Application Data and Document Data Files

 Application and Document Data are files that the application and/or users configure or write too. By default, SEER ensures that each user gets a set of these files copied to a user writable location.

Application Data and Document Data files are installed in the chosen installation directory in the respective AppData and Documents directories i.e.

[installation directory]\SEER\SEER-SEM X.X\AppData

[installation directory]\SEER\SEER-SEM X.X\Documents

Application Data files include the following files:

Files	Notes
CopyConfig.CDB	
SEER-SEM Data.INI	
SEER-SEM Settings.INI	 User Settings file. This is a unique file for each user. It is used to store user application preferences (e.g., font sizes, project parameter settings, paths, etc.)
SEER-SEM Tags.INI	
SEM-ACTNAMES.INI	
SEM-LANGTABLE.INI	
views.ini	

Public Documents files include the following files:

Files	Notes
ReportingLists.RDB	A database for TBM Taxonomy and Classifiers parameters pick list options
SEER-SEM_Lookup.xlsx	A catalog for Additional Items

Public Documents (Common) files include the following files:

Files	Notes
SEER-LaborRates.LRD	A database for labor role rates

Document Data includes the following Directories and files:

Item	Files
Projects	SEER-SEM Sample Projects to learn from
Scenarios	SEER-SEM Sample Scenarios to learn from
Tools	Extra Utilities, PDF copies of release notes, user guide etc.
Export Templates	Flexible Export Templates
Inflation Tables	Inflation Table files
KBases	SEER-SEM Knowledge Bases

First Time Initialization

During first time initialization of SEER, SEER creates a local user profile, and copies the Application Data and Document Data from the installation directory to the Local User SEER profile. This ensures all users have full read and write privileges to SEER related files.

 Note. The installing user can configure the installed SEER-SEM Settings.INI file to change the default first time initialization behavior (see Configuring SEER before first time initialization below).

Document Files are copied from the installation directory to the following location during first time initialization:

OS	Default Local User Document Files Path
10/11	<code>\Users\[USER NAME]\Documents\SEER\SEER-SEM X.X\</code>

Application Data Files are copied from the installation directory to the following location during first time initialization:

OS	Default Local User Application Data Files Path
10/11	<code>\Users\[USER NAME]\AppData\Local\SEER\SEER-SEM X.X\</code>

👉 Configure SEER so all Local Users Share a Common Data Set

If there are multiple local users, or multiple users on a single machine, the *SEER-SEM SETTINGS.INI* file can be configured to point to a shared set of Application Data and Document files.

Configuring SEER before installation

See Pre-Installation Configuration Options.

Configuring SEER before first time initialization

Remember, during first time initialization, the *SEER-SEM SETTINGS.INI* file is copied from the installation directory to the local user application data folder. If it is configured before first time initialization, then all users that later run SEER, will start with the same exact configuration.

1. Copy Document and Application Data files from the installation directory to a location that all future users will have read and write access to.
 - 📘 Note. Application Data files must be treated as a set and stored in the same folder location.
2. Configure the *[PATHS]* section of the installed *SEER-SEM SETTINGS.INI* file to point to the new application data and document locations.
3. Configure the *[FIRST-TIME-INIT-AND-UPGRADES]* section of the installed *SEER-SEM SETTINGS.INI* file.

Configuring SEER after first time initialization

1. Admin should copy the Document and Application Data files from the installation directory to a location that all users have read and write access to.
2. Each local user then needs to configure their *[PATHS]* section of the *SEER-SEM SETTINGS.INI* file to point to the new application data and document locations, this is most easily accomplished through the SEER application:
 - a. From the SEER Options menu, select 'Set Paths' – browse to the shared Application Data and Document data.
 - b. From the SEER Options menu, select 'Save Configuration' to store the path information in the local user *SEER-SEM SETTINGS.INI* file.

Server Installations

All files are installed onto the Server. The SEER application is then typically executed from a remote computer either through a Client install (see below), or through a thin client application such as Citrix.



Quick Install Process

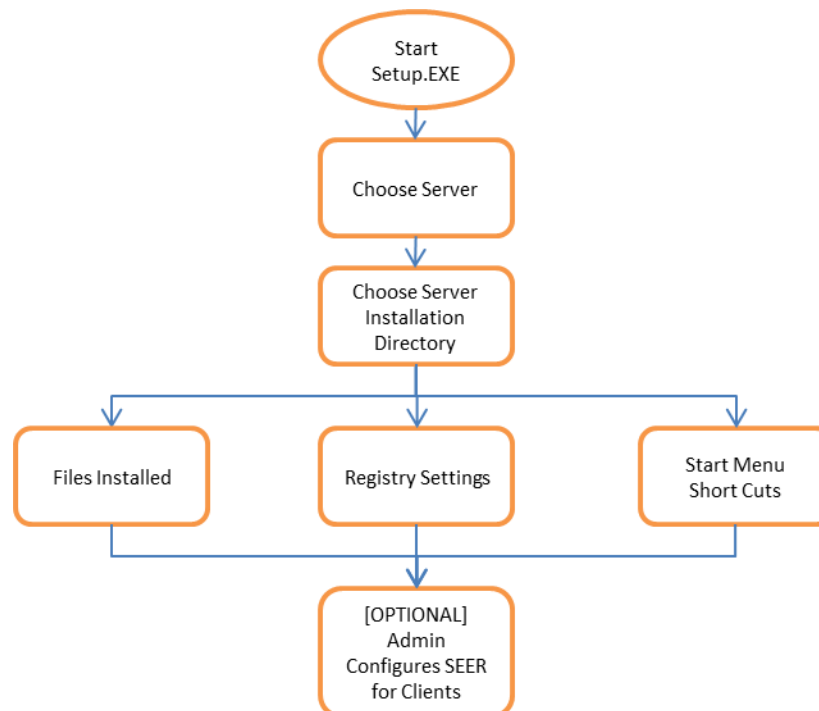
1. Start the SETUP.EXE file
2. Choose the Server option
3. Choose an installation directory (default = *c:\Program Files\SEER\SEER-SEM X.X*)
4. The installation package manages the entire process
5. Provide Write access to the AppData and Document data folders
6. Distribute the SEER Client installer

Detailed Information

During the installation process, the installer installs all the necessary SEER application files, writes registry settings, and creates start menu short cuts on the server. The following details explain the entire installation process, and what happens during first time initialization of the SEER application.

SEE ALSO:

*OTHER TECHNICAL INSTALLATION DETAILS,
APPENDIX – SEER-SEM 8.6 FILE MANIFEST*



Default Installation Configuration

The default configuration of a **SERVER INSTALLATION** is to install all files into the chosen installation directory. If you run the SEER application on the server, then it will operate just the same as a local installation (see Local Installations above).

By default, a Server install is configured such that all Client/Remote SEER users connecting through a network or via a thin client interface such as CITRIX will get a unique copy of the *SEER-SEM SETTINGS.INI* file.

 The *SEER-SEM SETTINGS.INI* file is a unique file for each user. It is used to store user application preferences e.g. font sizes, colors, project parameter settings, paths etc.

The *SEER-SEM SETTINGS.INI* file is installed on the server in the following location:

[server installation directory]\SEER\SEER-SEM X.X\AppData\SEER-SEM Settings.INI

During first time initialization of SEER, SEER copies the *SEER-SEM SETTINGS.INI* file from the server to the following location for each Client/Remote user:

SEE ALSO:

CLIENT INSTALLATIONS

OS	Client User Application Data Files Path
10/11	<i>\Users\[USER NAME]\AppData\Roaming\SEER\SEER-SEM X.X\</i>

 For client/server configurations, the Roaming user application data location is used. This insures that the *SEER-SEM SETTINGS.INI* file will roam with the user if required to do so.

Server Application Data and Document Data Files

By default, all Client/Remote users point to and use the Application Data files and Document Data files installed on the server.

 Administrators should insure that *CLIENT USERS HAVE WRITE ACCESS* to the Application Data and Document Data folder on the Server.

 These locations may be configured via the *SEER-SEM Settings.INI*. See next section for details.

The Application Data and Document folders are installed on the server in the following locations:

[server installation directory]\SEER\SEER-SEM X.X\AppData

[server installation directory]\SEER\SEER-SEM X.X\Documents

 By default, Client/Remote users will not get copies of Application Data or Document files copied to their machine or any user profiles on the server. Administrators may choose to reconfigure this via the *SEER-SEM SETTINGS.INI*. See next section for details.

SEER-SEM Settings.INI Client Configuration

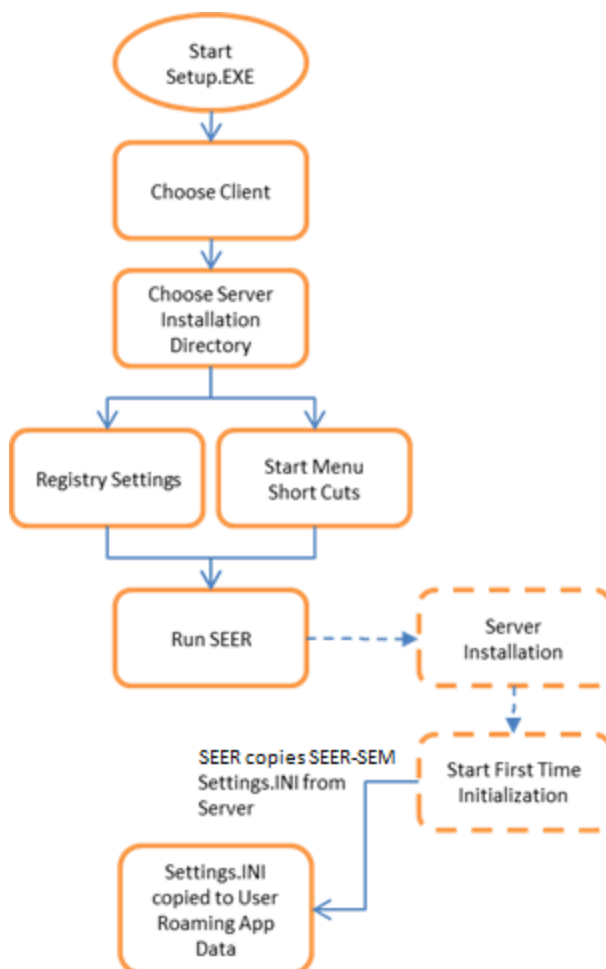
The **SEER-SEM SETTINGS.INI** file is a unique file that gets copied to each user's roaming profile during first time initialization of SEER. It is used to store user application preferences e.g., font sizes, colors, project parameter settings, paths etc.

❗ Configuration of the **SEER-SEM SETTINGS.INI** file should be completed before remote/client first time initialization of SEER.

1. Copy Document and Application Data files from the installation directory to a location that all Client/Remote users will have write access.
2. Configure the **[PATHS]** section of the **SEER-SEM SETTINGS.INI** file to point to copies of the Application data and Document data in another location on the server, or networked drive. You can use a drive letter path, or a UNC path. ❗ Ensure that paths end with a back slash.
3. **[OPTIONAL]** Configure the **[DEFAULT-PATHS-AND-UPGRADES]** table with respect which data you would like SEER to copy for each Client/Remote user (default is set to not copy data).

Client Installations

Individual user settings, shortcuts and links to the networked server are setup on the local machine. The SEER executable, export templates, knowledge bases, project files, etc. remain are on a networked server.



Quick Install Process

1. Start the SETUP.EXE file
2. Choose the Client option
3. Link to SEER-SEM installed on a Networked Server
4. The installation package manages the entire process, once complete you can begin using SEER.

Detailed Information

During the installation process, the installer writes registry settings and creates start menu short cuts. The following details explain the entire installation process, and what happens during first time initialization of the SEER application.

SEE ALSO:

*OTHER TECHNICAL INSTALLATION DETAILS,
APPENDIX – SEER-SEM 8.6 FILE MANIFEST*

Default Installation Configuration

The default configuration of a Client installation is to set registry values, and create a start menu shortcut. When the Client first runs SEER, SEER is configured to only copy the **SEER-SEM SETTINGS.INI** file to the Client roaming application data location.

Client/Remote User First Time Initialization

During first time initialization of SEER, SEER creates a user profile, and copies the **SEER-SEM SETTINGS.INI** file to this profile. This ensures all Client users have a unique file for setting the SEER application interface in a way that suits them e.g., font sizes, colors, default reports etc.

The **SEER-SEM SETTINGS.INI** file is copied by SEER to the following location:

OS	Client User Application Data Files Path
10/11	<code>\Users\[USER NAME]\AppData\Roaming\SEER\SEER-SEM X.XI</code>

Silent Installations

Silent installation requires the creation of a "response" file (setup.iss). This file records your selections as you run the installer in Record mode and must be referenced on the command line from which you run the silent installation. You may edit the response file with a text editor to change input values, if necessary. You may also create more than one response file to deploy for different kinds of installation, as long as you give them different names.

To record a response file from the **RUN COMMAND DIALOG**:

```
<path to setup directory>\setup.exe /r
```

The default location for the created setup.iss is the Windows or WinNT directory. You must move it to the setup directory before you run setup.exe in silent mode:

```
<path to setup directory>\setup.exe /s
```

Or you may explicitly specify the location and a different name for the response file using the f1 flag:

Create the response file:

```
<path to setup directory>\setup.exe /r /f1"<path to setup directory>\mysetupconfig.iss"
```

Run the silent installation:

```
<path to setup directory>\setup.exe /s /f1"<path to setup directory>\mysetupconfig.iss"
```

Other Technical Installation Details

Registry Settings

During installation modifications are made to the computer registry settings. The settings vary slightly depending on the installation type and are noted below.

64 bit Operating Systems:

Registry Location: [HKEY_LOCAL_MACHINE\SOFTWARE\Galorath\SEER-SEM](#)

Name	Data
Path	If a LOCAL/SERVER INSTALL , this will point to the installation directory specified. If a CLIENT INSTALL , this will point to the Server location of SEER.

64 bit Operating Systems:

Registry Location: [HKEY_LOCAL_MACHINE\SOFTWARE\Galorath\SEER-SEMX.X](#)

Where X.X is used denote the product version.

Name	Data
InstallDir	This will point to the installation directory specified
InstallerVersion	X.X.X
NetworkPath	IF LOCAL/SERVER INSTALL , this will point to the installation directory specified. IF CLIENT INSTALL , this will point to the networked server location of SEER-SEM.
Path	IF LOCAL/SERVER INSTALL , this will point to the installation directory specified. IF CLIENT INSTALL , this will point to the networked server location of SEER-SEM.
ReleaseName	SEER-SEM Configuration (Standard or Commercial)
SetupType	IF Local Install = Local IF Client Install = Client IF Server Install = Network

Start Menu Short Cuts

The installer creates a Start Menu short cut to the SEER application. The shortcut is installed in the following location:

OS	Installed Start Menu Shortcuts
10/11	<code>\ProgramData\Microsoft\Windows\Start Menu\Programs\SEER\SEER for Software\SEER for Software X.X\SEER for Software X.X</code>

 For Client installations, the start menu shortcut will point to the SEER application installed on the server.

 In a Windows Terminal Server environment, where users have roaming profiles, administrators may need to create or add to any user log on scripts. The script should copy the SEER start menu shortcuts and merge them into the user roaming profile as they log onto the server.

Disc Space Sizing

Disc space sizing varies enormously with the amount of users, the amount of files created, and the type of data used to create files.

As a rough sizing guide we provide the following example. This can be used to help plan what project file storage space is required either on your PC or on a Server.

Storage requirements for SEER-SEM can be measured by the number of projects that will be planned with SEER-SEM. Given the following scenario:

Typical project size = 100 elements

SEER-SEM element size $\approx$ 70K

Number of projects per year = 1000

Disc Space Required = $100 * 70K * 1000 = 7,000,000K \approx (6836MB)$

Of course, these assumptions can be fine tuned to your organization.

Repair/Remove Installation

You can invoke the Repair/Remove installation dialog via the operating system Control Panel:

Programs and Features option in 10/11

Options	Description
Repair	Choosing this option will proceed to reconfigure registry settings, Start Menu Short cuts, and reinstall AppData and Document data files in the original installation directory.  Note. This <i>will not update individual user copies</i> of AppData and Document data which were copied by SEER during first time initialization.
Remove	Choosing this option shall proceed to • remove all files that were installed by the installer. • remove registry entries set by the installer. • remove start menu short cuts.  Note. This <i>will not remove individual user copies</i> of AppData and Document data which were copied by SEER during first time initialization.  The remove option will cycle through all user profiles on the machine where SEER was installed and remove the SEER-SEM SETTINGS.INI file. This insures that should the installer be rerun, each user will get a new SEER-SEM SETTINGS.INI file. The remove option will not remove SEER-SEM SETTINGS.INI files from Roaming profiles.

Upgrade Installation

Periodically you will receive information about a new version of SEER, along with information on how to get the latest installation files. Upgrades may be minor or major depending on the content of the update.

Minor Upgrades

Minor upgrades occur more frequently than major upgrades. Typically the program will contain updates to exiting processes and/or program features. To begin the upgrade process:

1. Log on with administrative privileges
2. Locate and Start the SEER-SEM SETUP.EXE file
3. The installation package manages the entire process, once complete you can begin using SEER.

The minor upgrade installation process assumes all settings of the initial/previous installation.

After upgrade installation is complete, and the next time SEER is run, SEER begins an upgrade initialization process. During this process, SEER copies updated document files (such as release notes) from the installation directory to the local user document location. SEER upgrades/copies files according to the settings defined in the [FIRST-TIME-INIT-AND-UPGRADES] table of the installed SEER-SEM Settings.INI file.

✔ During upgrade initialization user copies of Application Data files are preserved. Thus, all/any customizations in the application data files are retained.

Major Upgrades

Major upgrades occur less frequently than minor upgrades. Major upgrade versions may be installed along side existing installations of SEER. Thus, users can if they wish, have multiple major versions of SEER installed on a single machine. A major install is a completely new install so all of the available installation options described in this guide are available to choose from.

You can begin a major upgrade and use a currently installed license from another major installation. During the installation process, you will be asked to point to the location of your currently installed SEER version. The installer will make a copy and use this license file for the major upgrade.

Installation FAQ

Q: *What is involved in installing and maintaining SEER Applications on a Server?*

A: The SEER applications are end-user business applications that require a Wintel-standard PC running on Microsoft Windows (i.e. Windows 10, Windows 11). The applications are distributed as a collection of executable files (.exe) and dynamic link libraries (.dll) and other supporting data and user files.

Installation involves a standard process that places program and data files in the appropriate places, sets up user program menus, and takes care of program registration. Removing the program involves a similar uninstall process.

Use of SEER-SEM results in the creation of one or more project files, which can be accessed locally or shared across a network. With respect to network resources, the SEER applications resemble spreadsheet or word processing applications rather than large client-server or transaction processing applications. They can be run from an application server or as standalone applications on a client machine.

Q: *Do the SEER applications require any unique or extreme resources from the network or user workstations?*

A: No. We make every effort to ensure that SEER applications conform to the general guidelines and recommendations specified by Microsoft. Each application will run well in under 256 MB of RAM. At least 96 MB of disk space and 256 MB of RAM are required. For optimal use, at 512 MB of RAM or higher is recommended.

Q: *As a network administrator, what are my choices when deploying SEER applications?*

A: You have a great deal of flexibility as to how your organization uses SEER applications. Install a single copy of each application on each workstation for the ultimate in performance and total elimination of network traffic. If you want to centralize administration and maintenance of the applications, you can install them on an application/file server. For network installations, a workstation setup routine must be run from each client machine to install required system files to the local workstation.

Q: *My organization has offices throughout the world. What type of configuration would you suggest?*

A: To achieve a balance between having to keep track of multiple copies of the applications and having to rely on wide area communication links, we suggest that you install one copy of SEER at each office location, and let the users run the program from the local area network. If you have 10 locations, then install on the 10 different sites and let the users run locally.

Q: *What about upgrades and maintenance? What should we expect with respect to having to re-deploy bug fixes and upgrade releases?*

A: To minimize the overhead involved in upgrading and re-deploying our applications, Galorath has adopted the following strategies:

Project files from previous versions of SEER are now automatically upgradeable. That means that users will be able to preserve their custom settings, presentations.

An upgrade installation of a SEER application requires that you have that SEER application installed with a current license. Depending on the type of upgrade, the install process will do one of two things.

For minor updates, the installer automatically detects the existing installation and updates it.

For major upgrades, the installer will ask you for the location of the previous version of SEER and use license information contained in the earlier SEER version. After you have installed the new version, you may uninstall the earlier version.

Updates can be downloaded from our web site support area.

Q: *As a network administrator, will I be getting a lot of support calls about use and functionality of the SEER applications?*

A: The SEER applications feature on-line help and built in links to the Galorath web site (<https://galorath.com/>) as well as the ability to e-mail support staff at Galorath. In addition to the normal telephone support and in-class training Galorath provides, these features should go a long way in directing users to take advantage of the proper resources at Galorath. A link to the help list of Frequently Asked Questions is also built into the SEER applications.

If you want to contact Galorath Incorporated for technical support or any other reason, we can be reached at:

Phone: (310) 414-3222

FAX: (310) 414-3220

Email: support@galorath.com

Website: <https://galorath.com/>

Please have your serial number ready for technical support. This serial number is found in the Help / About dialog box.

A Technical Notes library found on our web site reflects ongoing research and program development, and provides more detailed and theoretical explanations of various aspects of the program. Individual articles are available upon request, without charge.

Q: *What about sharing of files?*

A: The SEER applications allow you to email project files to other users or to store them on a network directory. If you are building custom knowledge bases, it is recommended that they are stored in a common area accessible to all users. Users may specify the location of the knowledge base files in the program under Options/Set Paths. Project files may be shared in a similar way.

Q: *What kind of Setup program do you employ?*

A: All of the Setup programs we use were developed with InstallShield, so they have a very common look and feel for users, and work well with the various file systems and configurations in existence today.

Q: *Do your applications work on a Mac?*

A: Yes, SEER applications are tested on a MacBook with MacOS Ventura running Parallels Desktop 20.

Appendix – SEER-SEM 8.6 File Manifest

During Local and Server installs, the following files are installed into the chosen installation directory.

[Installation Path]\SEER\SEER-SEM 8.6\

Filename	Notes
AppData	Folder contains all APPDATA files (see below for list of AppData files)
Documents	Folder contains all DOCUMENT folders and files (see below for list of all Document files)
es	Folder contains resource files for Spanish display
Help	Folder contains all help files
ParameterHelp	Folder contains all parameter dialog help files
Styles	Folder contains Ribbon styles
ADDFROMREPOSITORYLib.dll	
Agile-Exclusion.ini	
Atlassian.Jira.dll	
CopyConfig.CDB	
Defaults.txt	
DevExpress.Charts.v24.2.Core.dll	
DevExpress.CodeParser.v24.2.dll	
DevExpress.Data.Desktop.v24.2.dll	
DevExpress.Data.v24.2.dll	
DevExpress.DataAccess.v24.2.dll	
DevExpress.DataAccess.v24.2.UI.dll	
DevExpress.DataVisualization.v24.2.Core.dll	
DevExpress.Diagram.v24.2.Core.dll	
DevExpress.Drawing.v24.2.dll	
DevExpress.Images.v24.2.dll	
DevExpress.Mvvm.v24.2.dll	
DevExpress.Office.v24.2.Core.dll	
DevExpress.Pdf.v24.2.Core.dll	
DevExpress.Pdf.v24.2.Drawing.dll	
DevExpress.PivotGrid.v24.2.Core.dll	
DevExpress.Printing.v24.2.Core.dll	
DevExpress.RichEdit.v24.2.Core.dll	
DevExpress.RichEdit.v24.2.Export.dll	
DevExpress.Sparkline.v24.2.Core.dll	
DevExpress.Spreadsheet.v24.2.Core.dll	
DevExpress.TreeMap.v24.2.Core.dll	
DevExpress.Utils.v24.2.dll	
DevExpress.Utils.v24.2.UI.dll	
DevExpress.Xpo.v24.2.dll	
DevExpress.XtraBars.v24.2.dll	
DevExpress.XtraCharts.v24.2.dll	

DevExpress.XtraCharts.v24.2.Extensions.dll	
DevExpress.XtraCharts.v24.2.UI.dll	
DevExpress.XtraCharts.v24.2.Wizard.dll	
DevExpress.XtraDiagram.v24.2.dll	
DevExpress.XtraEditors.v24.2.dll	
DevExpress.XtraGauges.v24.2.Core.dll	
DevExpress.XtraGrid.v24.2.dll	
DevExpress.XtraLayout.v24.2.dll	
DevExpress.XtraNavBar.v24.2.dll	
DevExpress.XtraPivotGrid.v24.2.dll	
DevExpress.XtraPrinting.v24.2.dll	
DevExpress.XtraReports.v24.2.CodeCompletion.dll	
DevExpress.XtraReports.v24.2.dll	
DevExpress.XtraReports.v24.2.Extensions.dll	
DevExpress.XtraRichEdit.v24.2.dll	
DevExpress.XtraSpreadsheet.v24.2.dll	
DevExpress.XtraTreeList.v24.2.dll	
DevExpress.XtraTreeMap.v24.2.dll	
DevExpress.XtraVerticalGrid.v24.2.dll	
ExCSS.dll	
Fizzler.dll	
Galorath.SEER.HD.DAC.Loader.dll	
HDInterop.deps.json	
HDInterop.dll	
HDInterop.runtimeconfig.json	
IDToHtmMap.xml	
Ijwhost.dll	
Interop.SEER_SEM.1.1.dll	
JiraPlugin.dll	
libxl.dll	
LoadingIndicator.WinForms.dll	
Markdig.dll	
Metrics.Shared.dll	
Microsoft.Bcl.AsyncInterfaces.dll	
Newtonsoft.Json.dll	
normprob.db	
NotoSans-Bold.ttf	
NotoSans-BoldItalic.ttf	
NotoSans-Italic.ttf	
NotoSans-Regular.ttf	
OUT_0000.FLX	
OUT_0001.FLX	
OUT_0002.FLX	
OUT_0003.FLX	

OUT_0004.FLX	
OUT_0005.FLX	
OUT_0006.FLX	
OUT_0007.FLX	
OUT_0008.FLX	
OUT_0009.FLX	
OUT_0010.FLX	
OUT_0011.FLX	
OUT_0012.FLX	
OUT_0013.FLX	
OUT_0014.FLX	
OUT_0015.FLX	
OUT_0016.FLX	
OUT_0017.FLX	
OUT_0018.FLX	
OUT_0019.FLX	
OUT_0020.FLX	
OUT_0021.FLX	
OUT_0022.FLX	
OUT_0023.FLX	
OUT_0024.FLX	
OUT_0025.FLX	
OUT_0026.FLX	
OUT_0027.FLX	
OUT_0028.FLX	
OUT_0029.FLX	
OUT_0030.FLX	
OUT_0031.FLX	
OUT_0032.FLX	
OUT_0033.FLX	
OUT_0034.FLX	
OUT_0035.flx	
OUT_0036.flx	
OUT_0037.flx	
OUT_0038.flx	
OUT_0039.flx	
OUT_0040.flx	
OUT_0041.flx	
OUT_0042.flx	
OUT_0043.flx	
OUT_0044.flx	
OUT_0045.flx	
OUT_0046.flx	
OUT_0047.flx	

OUT_0048.flx	
OUT_0049.flx	
OUT_0050.flx	
OUT_0051.flx	
OUT_0052.flx	
OUT_0053.flx	
OUT_0054.flx	
PrintLogo.png	
PUB_CW1.FLX	
PUB_CW2.FLX	
PUB_EP1.FLX	
PUB_EP2.FLX	
PUB_FALA_NAMES_CW.FLX	
PUB_FALA_NAMES_EP.FLX	
PUB_FALA_NAMES_SW.FLX	
PUB_INCC.FLX	
PUB_INCO.FLX	
PUB_INCP.FLX	
PUB_INCU.FLX	
PUB_INEC.FLX	
PUB_INEO.FLX	
PUB_INEP.FLX	
PUB_INEU.FLX	
PUB_INSC.FLX	
PUB_INSO.FLX	
PUB_INSP.FLX	
PUB_INSU.FLX	
PUB_MC1.FLX	
PUB_ME1.FLX	
PUB_MONTECARLO_CW.flx	
PUB_MONTECARLO_EP.flx	
PUB_MONTECARLO_SW.flx	
PUB_MS1.FLX	
PUB_SW1.FLX	
PUB_SW2.FLX	
PUB_YC1.FLX	
PUB_YC2.FLX	
PUB_YE1.FLX	
PUB_YE2.FLX	
PUB_YS1.FLX	
PUB_YS2.FLX	
ReportingLists.RDB	
RestSharp.dll	
RunSEMIIntegrationToMSP.exe	

SampleIn.txt	
schema.ini	
ScopeMasterPlugin.dll	
SEER.API.SEM.ClrWrappers.dll	
SEER.Common.dll	
SEER.Common.dll.config	
SEER.DAC.ClrWrappers.SeerDb.dll	
SEER.DAC.CppEmulators.DataAccessors.dll	
SEER.DAC.CppEmulators.Entities.dll	
SEER.DAC.CppWrappers.Entities.dll	
SEER.DAC.DataAccessors.dll	
SEER.DAC.DataAccessors.dll.config	
SEER.DAC.Entities.dll	
SEER.DAC.Entities.dll.config	
SEER.DAC.Errors.dll	
SEER.DAC.Errors.dll.config	
SEER.DAC.Security.dll	
SEER.DAC.UI.dll	
SEER.DAC.UI.dll.config	
SEER.PrintEngine.dll	
SEER.PrintEngine.xml	
seer_rnk.dll	
SEERai.API.dll	
SEERai.dll	
SeerDataObjects.dll	
SeerDb.dll	
SeerDbDll.dll	
SEER-SEM Properties.INI	
SEERSEM.exe	
SEERSEM.exe.config	
seersem.tlb	
SEER-SEM8-6.DBS	
SEM_64 DLL.dll	
SEM_64 DLL_SA.dll	
SEMAgilePlanner.dll	
SEMProjectAssistant.dll	
SEMProjectAssistantLegacy.dll	
SizeMetricGenerator.exe	
Svg.dll	
System Buffers.dll	
System.IO.Pipelines.dll	
System.Memory.dll	
System.Net.Http.Json.dll	
System.Numerics.Vectors.dll	

System.Runtime.CompilerServices.Unsafe.dll	
System.Text.Encodings.Web.dll	
System.Text.Json.dll	
System.Threading.Tasks.Extensions.dll	
System.ValueTuple.dll	
WebView2Loader64.dll	

[%AllUsersProfile%]\Documents\SEER\SEER-SEM 8.6\

Filename	Notes
ReportingLists.RDB	
SEER-SEM_Lookup.xlsx	

[%AllUsersProfile%]\Documents\SEER\Common\

Filename	Notes
SEER-LaborRates.LRD	

[Installation Path]\SEER\SEER-SEM 8.6\AppData

Filename	Notes
CopyConfig.CDB	
SEER-SEM Data.INI	
SEER-SEM Settings.INI	
SEER-SEM TAGS.INI	
SEM-ACTNAMES.INI	
SEM-LANGTABLE.INI	
views.ini	

[Installation Path]\SEER\SEER-SEM 8.6\Documents\Export Templates\

Filename	Notes
Activity Cost By Fiscal Year - COSTS.flx	
Activity Cost By Fiscal Year - DATES.flx	
actvhour.flx	
actvsch.flx	
BASICEST.FLX	
CopyComputedCalibrationAdj.flx	
COSTBYFY.FLX	
Defects.FLX	
details.flx	
ENTERPRI.FLX	
ETC.FLX	
FBSINPUT.FLX	
fpcntnew.flx	
fpcount.flx	

Goals.FLX
inp-tech.flx
INPUTS.FLX
laborcst.flx
laborhrs.flx
Maintenance Effort By Year.FLX
Maintenance.FLX
MANT-CST.FLX
MANT-HRS.FLX
MSProj Basic.FLX
msproj.flx
PARAMSUM.FLX
PMC_Outputs.FLX
prjsched.flx
Properties.FLX
QUICKEST.FLX
Risk Analysis all elements.flx
Risk Analysis.FLX
RISKDATA.FLX
SEI.FLX
size-all.flx
sizeline.flx
size-ufp.flx
SoftwareMetrics.FLX
STAFFDET.FLX
STAFFTOT.FLX
sumbasic.flx
sumcost.flx
V_CostSummary.FLX
V_CostSummaryReport.FLX
V_KbaseSelections.FLX
V_LaborHoursByActivity.FLX
V_Project Properties.FLX
V_ProjectHoursByActivity.FLX
V_ProjectQuickEstimate.FLX
V_ReqsSummary.FLX
V_SeiDrivers.FLX
V_SysITSummary.FLX

[Installation Path]\SEER\ SEER-SEM 8.6\Documents\PROJECTS\

Filename	Notes
ABS Software.PRJ	
Agile Planner Sample.agl	

Agile Sample - OTB eHandicapper.PRJ	
COTS and Custom Sample - CIPU Custom Apps and Package Customizations.PRJ	
COTS Samples.PRJ	Not included in SEER-SEM Commercial Configuration
CRM Tool - Web based.agl	
CustomExpressionExamples.PRJ	
Data Warehouse Sample - Marketing Analytics Package.prj	
DoD ERP Deployment - Finance sample.agl	
ERP Example.PRJ	
Ground Based C&C .agl	
Illinois Outreach.PRJ	
OUTSIDE.PRJ	
Process Manager.PRJ	
SAP BPC Implementation.PRJ	
Split Teams Example.agl	
TACTICAL.PRJ	Not included in SEER-SEM Commercial Configuration
TaxSystemAccountReporting.PRJ	
trading.prj	
WATCHER.PRJ	Not included in SEER-SEM Commercial Configuration
Web Development Sample - Customer Facing Web Portal.prj	

[Installation Path]\SEER\ SEER-SEM 8.6\Documents\SCENARIOS\

Filename	Notes
AUTOSAR Classic.PRJ	
OTA Update.PRJ	
Spacecraft Sample.PRJ	
Tactical Simulation Template.PRJ	
Trading Regions.PRJ	
Web Server.PRJ	

[Installation Path]\SEER\ SEER-SEM 8.6\Documents\Tools\

Filename	Notes
Activity Cost By Fiscal Year Report.xlsm	
Class Knowledge Base Definitions.docx	
CompPHPM.xlsx	
Data Collection Form.xlsm	
Parametric Project Monitoring and Control Users Guide.pdf	
PARAMSUM.xlsx	
PMC Reuse Efficiency Worksheet.xlsx	
PMC Worksheets.xlsx	
SEER for Software 8.6 Release Notes.pdf	
SEER-SEM Estimate to Complete.xlsx	
SEER-SEM Input worksheet.xlsm	
SEER-SEM Rework Percentages.xlsx	
SEER-SEM Server Mode Details.xlsm	
SEER-SEM View Creator Template.xlsm	
SEER-SEM Worksheets.docx	
SEER-SEM Worksheets.pdf	
SEMacros.xlsm	
Size Metric Definitions.docx	

[Installation Path]\SEER\ SEER-SEM 8.6\Documents\KBases\

Filename	Notes
SEER-SEM8-6.REP	
Baseclasses.PRX	
BasicAppComps.PRX	
COSMIC.PRX	
COSMIC_DM.PRX	
DO178CPDIF.PRX	Not included in SEER-SEM Commercial Configuration
DWBI_Components.PRX	
Early_Quick_FPs_BFC.PRX	
Early_Quick_FPs_UBFC.PRX	
FBS.PRX	
FPCOUNT.PRX	
MKIIFFPA.PRX	
None.prx	
Object.prx	
RICEFW Objects.PRX	
SIMPLEFP.PRX	
SLOC.prx	
storypoints.PRX	
Topclasses.PRX	
TRIGGER.PRX	

Ufpcount.prx	
Use Case Points Summary.PRX	
Use Case Points.PRX	
Usecases.PRX	
WEBSITE.PRX	
ASPICE Capability Levels.Scorecard	
Maintainability.Scorecard	
Redesign Factors.Scorecard	
Reimplementation Factors.Scorecard	
Retest Factors.Scorecard	

[Installation Path]\SEER\SEER-SEM 8.6\Documents\Inflation Tables\

Filename	Notes
2022DEF.INI	
2024DEF.INI	
2026DEF.INI	

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