

LISEGA Catalog and HS Plug-in Installation

Smart 3D

Automated installation and update using
InstallLisegaCatalogAndHSplugin.ps1

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1 Introduction

The installation is now automated as far as possible. Manual tasks from previous installations—such as copying images and DLL files and performing bulkloads—are now carried out by the PowerShell script “InstallLisegaCatalogAndHSplugin.ps1”. This makes it easy to install or update the LISEGA plug-in together with the catalog.

2 Prerequisite

You need permission to run PowerShell scripts.

3 Installation

3.1 Run the installation script

Run the PowerShell script “InstallLisegaCatalogAndHSplugin.ps1” in a Windows Terminal. The script is located in the root directory of the installation package.

The script requires command-line parameters. If you run the script without parameters, the available command-line parameters are displayed:

```
.\InstallLisegaCatalogAndHSplugin.ps1

Installing LISEGA catalog V 3 and plug-in V 4 ...

Checking command line parameters ...

CheckCmdLineParameter failed: Parameter S3DinstDir not set!

Usage: InstallLisegaV3.bat -InstallMode <mode>
                        -S3DinstDir <Smart3D installation directory>
                        -SymbolShare <Symbol share>
                        -DBserver <Database server name>
                        -DBcatalog <Catalog database name>
                        -DBcatalogSchema <Catalog schema database name>

Optional parameters:
    [-SchemaDBserver <Schema Database server name>] : If it is the same database server as th catalog databen server, this parameter can be omitted
    [-ViewBulkloadLogs] : Show log file content of bulkload during execution (good to see the progress) : Default=true

Description of the parameter values
<mode> - Allowed options: INSTALL or UPDATE
<Smart3D installation directory> - The complete path of the root installation directory (e.g.: "C:\Program Files (x86)\Smart3D")
<Symbol share> - The complete path of the symbol share root directory (e.g.: "\\server1\S3D\SymbolShare")
<Catalog database name> - The database name of the catalog database
<Catalog schema database name> - The database name of the catalog schema database
```

Figure 1 – Available command-line parameters

3.2 Installation modes

The script has two installation modes: INSTALL and UPDATE. The modes differ in how the bulkload is performed: either in “Append” mode or in “DeleteAndReplace” mode. All other script tasks are identical.

3.3 First installation

The “InstallMode” parameter must be set to “INSTALL”.

Example command-line call:

```
.\InstallLisegaCatalogAndHSplugin.ps1 -InstallMode INSTALL -S3DinstDir "C:\Program Files
(x86)\Smart3D" -SymbolShare "F:\SharedContent" -DBserver DESKTOP-PSAB7U0 -DBcatalog
S3D_TRAIN_V14_CDB -DBcatalogSchema S3D_TRAIN_V14_CDB_SCHEMA -ViewBulkloadLogs
```

3.4 Update installation

The “InstallMode” parameter must be set to “UPDATE”.

Example command-line call:

```
.\InstallLiseгаCatalogAndHsplugin.ps1 -InstallMode UPDATE -S3DinstDir "C:\Program Files
(x86)\Smart3D" -SymbolShare "F:\SharedContent" -DBserver DESKTOP-PSAB7U0 -DBcatalog
S3D_TRAIN_V14_CDB -DBcatalogSchema S3D_TRAIN_V14_CDB_SCHEMA -ViewBulkloadLogs
```

4 Installation procedure

The following procedure applies to both a first installation and an update.

4.1 Automatic file copying

Step 1: Start the installation script

Run the script with the required parameters.

Step 2: Allow the files to be copied automatically

The required symbol DLLs and part images are copied to the designated destination folders.

```
> .\InstallLiseгаCatalogAndHsplugin.ps1 -InstallMode UPDATE -S3DinstDir "C:\Program Files (x86)\Smart3D" -SymbolShare "F:\SharedContent" -DBserver DESKTOP-PSAB7U0 -DBcatalog S3D_TRAIN_V14_CDB -DBcatalogSchema S3D_TRAIN_V14_CDB_SCHEMA -ViewBulkloadLogs

Installing LISEGA catalog V 3 and plug-in V 4 ...
Checking command line parameters ...

PowerShell Parameter and variable values:
-----
PackageSource      = "C:\Users\vm\source\repos\LISEGA_S3D\Delivery\LISEGA_S3D catalog V3 and HS plugin V4_2026-10-16\LISEGA_S3D catalog V3 and HS plugin V4_2026-10-16"
DllSourcePath      = "C:\Users\vm\source\repos\LISEGA_S3D\Delivery\LISEGA_S3D catalog V3 and HS plugin V4_2026-10-16\LISEGA_S3D catalog V3 and HS plugin V4_2026-10-16\SymbolShare\CustomSymbols"
PartImagesSourcePath = "C:\Users\vm\source\repos\LISEGA_S3D\Delivery\LISEGA_S3D catalog V3 and HS plugin V4_2026-10-16\LISEGA_S3D catalog V3 and HS plugin V4_2026-10-16\PartImages"
S3DinstDir         = "C:\Program Files (x86)\Smart3D"
SymbolShare        = "F:\SharedContent"
DBserver           = "DESKTOP-PSAB7U0"
DBcatalog          = "S3D_TRAIN_V14_CDB"
DBcatalogSchema    = "S3D_TRAIN_V14_CDB_SCHEMA"
ObserverSchema     = "DESKTOP-PSAB7U0" -- Hint: Value copied from DBserver, because parameter was not specified in command line!
ViewBulkloadLogs   = "True"
SkipFileCopy       = "False"
SkipPrjMgmt        = "False"
SkipBulkload       = "False"
S3DinstDirCoreRuntime = "C:\Program Files (x86)\Smart3D\Core\Runtime"
S3DinstDirCoreContainerBin = "C:\Program Files (x86)\Smart3D\Core\Container\Bin"
S3DHostExe         = "C:\Program Files (x86)\Smart3D\Core\Container\Bin\S3DHost.exe"
PrjEnvXml          = "C:\Program Files (x86)\Smart3D\ProjectMgt\Environment\Xml\ProjectEnv.xml"
BulkloadExe        = "C:\Program Files (x86)\Smart3D\CatalogData\Bulkload\Bin\Bulkload.exe"

Checking if source folders exists ...
Checking if destination folders exists ...
Checking if required programs and files exists ...

Deleting everything in folder F:\SharedContent\Custom Symbols before copying new LISEGA symbol DLL's ...

Copying symbol DLL's ...
--- 23 files (DLL's) copied to Custom Symbols folder ---

Copying part images ...
--- 182 part images copied to PartImages folder ---
Starting S3D Project Management ...

Instructions
=====
Steps to perform manually in S3D Project Management

1) Select the catalog where the "Update Custom Symbol configuration ..." command should be executed
2) Open Tools menu and click on "Update Custom Symbol configuration ..." and follow the instructions
3) After the command finished, close the S3D Project Management and this installation will continue!

=====
Smart3D Project Management [Waiting until program is closed ... ]
```

Figure 2 – Copying the required files and automatically starting Smart 3D Project Management

4.2 Update the custom symbol configuration

Manual step

The “Update Custom Symbol Configuration” command cannot be executed completely automatically. The installation script starts Smart 3D Project Management automatically and waits to start the bulkloads until the Project Management window has been closed.

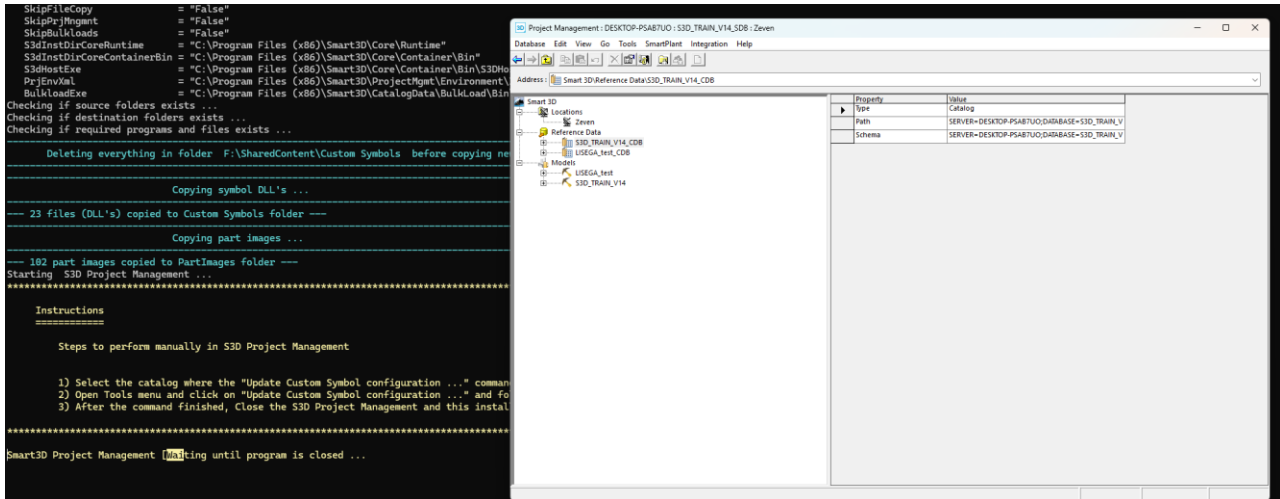


Figure 3 – Smart 3D Project Management started by the installation script

Step 3: Select the catalog database

Under “Reference Data”, select the corresponding catalog database. Right-click the catalog entry to open the context menu.

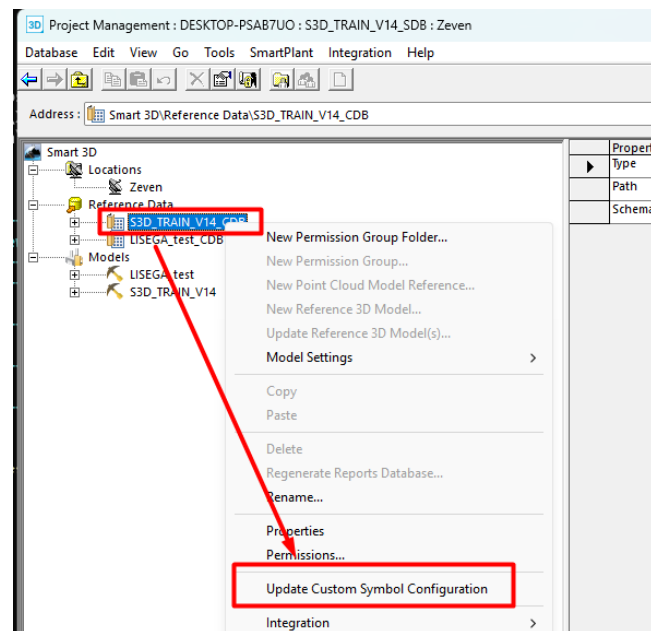


Figure 4 – Selecting the catalog and opening the context menu

Step 4: Update the symbol configuration

In the context menu, click “Update Custom Symbol Configuration”.

Step 5: Start the update

Click the “Start” button.

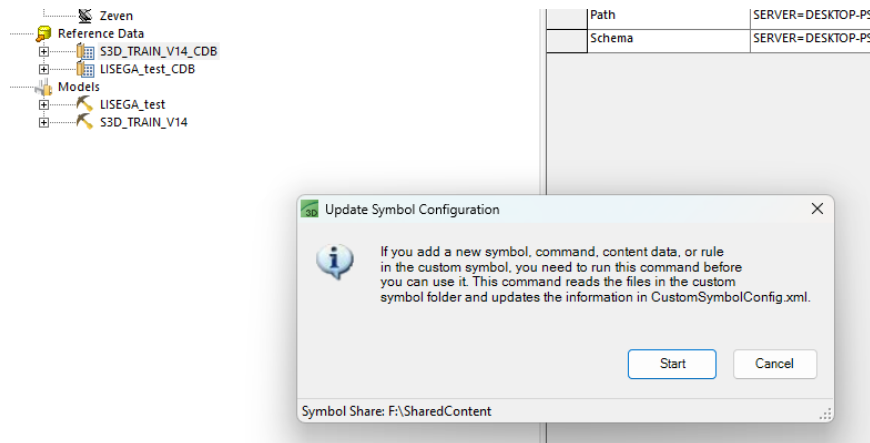


Figure 5 – Starting the custom symbol configuration update

Progress is indicated only by the changing text in the status bar:

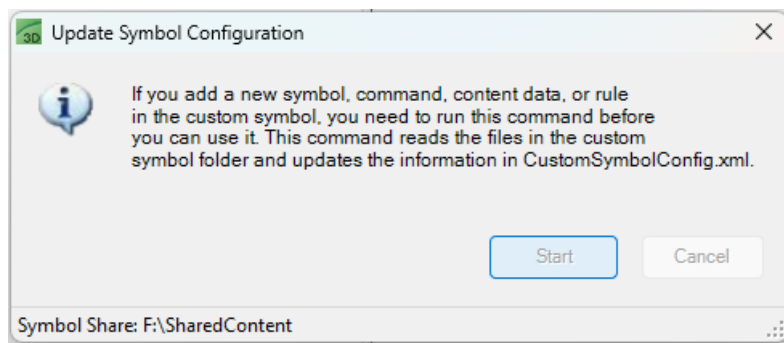


Figure 6 – Update started

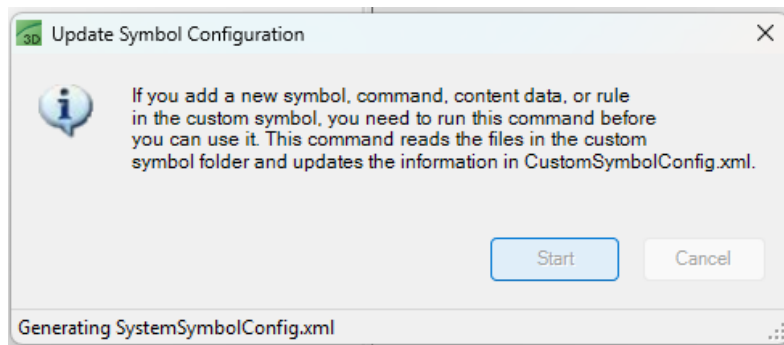


Figure 7 – Generating SystemSymbolConfig.xml

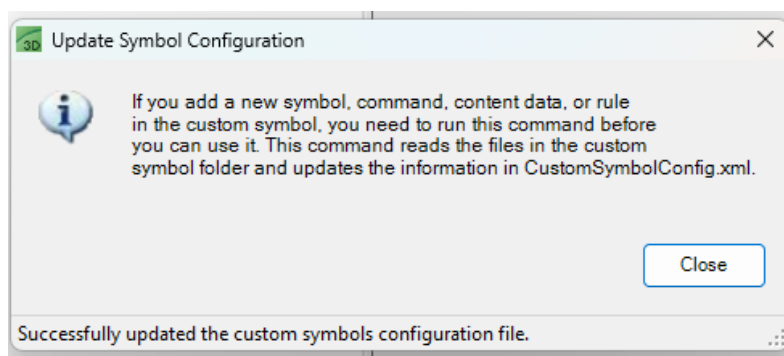


Figure 8 – Custom symbol configuration updated successfully

Step 6: Close the dialog and Project Management

Click the “Close” button to return to the main Project Management window. Then exit the “Project Management” program.

4.3 Continue the installation and bulkloads

Immediately after Smart 3D Project Management is closed, the installation continues and the bulkloads are started.

```
Starting S3D Project Management ...
*****
Instructions
=====

Steps to perform manually in S3D Project Management

1) Select the catalog where the "Update Custom Symbol configuration ..." command should be executed
2) Open Tools menu and click on "Update Custom Symbol configuration ..." and follow the instructions
3) After the command finished, Close the S3D Project Management and this installation will continue!

*****

Start bulkload 1 of 3 ...
Running Bulkload of LISEGA.S3D.Catalog_V3_20260911_DeleteReplace.xlsx and CodeList LISEGA.S3D.Catalog_V3_CodeList_20260417.xlsx
Opening new window to show bulkload log file content changes ...
Bulkloading LISEGA.S3D.Catalog_V3_20260911_DeleteReplace.xls. [Waiting until bulkload.exe is finished ... ]
```

Figure 9 – Continuing the installation with the first bulkload

If the “ViewBulkloadLogs” parameter is specified, additional terminal windows are opened. They display changes to the log files for the corresponding bulkload run.

```

SkipPrjMgmt      = "False"
SkipBulkloads    = "False"
S3dInstDirCoreRuntime = "C:\Program Files (x86)\Smart3D\Core\Runtime"
S3dInstDirCoreContainerBin = "C:\Program Files (x86)\Smart3D\Core\Container\Bin"
S3dHostExe       = "C:\Program Files (x86)\Smart3D\Core\Container\Bin\S3DHost.exe"
PrjEnvXml        = "C:\Program Files (x86)\Smart3D\ProjectMgmt\Environment\Xml\ProjectEnv.xml"
BulkloadExe      = "C:\Program Files (x86)\Smart3D\CatalogData\Bulkload\Bin\Bulkload.exe"

Checking if source folders exists ...
Checking if destination folders exists ...
Checking if required programs and files exists ...

Deleting everything in folder F:\SharedContent\Custom Symbols before copying new LISEGA symbol DLL's ...

Copying symbol DLL's ...
--- 23 files (DLL's) copied to Custom Symbols folder ---

Copying part images ...
--- 102 part images copied to PartImages folder ---

Starting S3D Project Management ...
*****
Instructions
=====

Steps to perform manually in S3D Project Management

1) Select the catalog where the "Update Custom Symbol configuration ..." command should be executed
2) Open Tools menu and click on "Update Custom Symbol configuration ..." and follow the instructions
3) After the command finished, Close the S3D Project Management and this installation will continue!

*****

Start bulkload 1 of 3 ...
Running Bulkload of LISEGA.S3D.Catalog_V3_20260911_DeleteReplace.xlsx and CodeList LISEGA.S3D.Catalog_V3_CodeList_20260417.xlsx
Opening new window to show bulkload log file content changes ...
Bulkloading LISEGA.S3D.Catalog_V3_20260911_DeleteReplace.xls. [Waiting until bulkload.exe is finished ... ]

```

```

LISEGA.S3D.Catalog_V3_2026 - x
talog_V3_CodeList_20260417.xlsx Workbook - Started at : 16/10/2026 13:09:22
Successfully created all new entries in the CodeList Table : LISEGA_V3_Material
Finished Processing sheet: LISEGA_V3_Material in C:\Users\vm\source\repos\LISEGA.S3D\Delivery\LISEGA.S3D.Catalog_V3 and
HS plugin VL_2026-10-16\LISEGA.S3D.Catalog_V3 and HS plugin VL_2026-10-16\Excel Workbooks\01 - catalog\LISEGA.S3D.Catalog
_V3_CodeList_20260417.xlsx Workbook - finished at : 16/10/2026 13:09:22

Processing sheet : LISEGA_V3_Mithug in C:\Users\vm\source\repos\LISEGA.S3D\Delivery\LISEGA.S3D.Catalog_V3 and HS plugin
VL_2026-10-16\LISEGA.S3D.Catalog_V3 and HS plugin VL_2026-10-16\Excel Workbooks\01 - catalog\LISEGA.S3D.Catalog
_V3_CodeList_20260417.xlsx Workbook - Started at : 16/10/2026 13:09:22
Successfully created all new entries in the CodeList Table : LISEGA_V3_Mithug
Finished Processing sheet: LISEGA_V3_Mithug in C:\Users\vm\source\repos\LISEGA.S3D\Delivery\LISEGA.S3D.Catalog_V3 and H
S plugin VL_2026-10-16\LISEGA.S3D.Catalog_V3 and HS plugin VL_2026-10-16\Excel Workbooks\01 - catalog\LISEGA.S3D.Catalog
_V3_CodeList_20260417.xlsx Workbook - finished at : 16/10/2026 13:09:23

Processing sheet : CustomInterfaces in C:\Users\vm\source\repos\LISEGA.S3D\Delivery\LISEGA.S3D.Catalog_V3 and HS plugin
VL_2026-10-16\LISEGA.S3D.Catalog_V3 and HS plugin VL_2026-10-16\Excel Workbooks\01 - catalog\LISEGA.S3D.Catalog
_V3_20260911_DeleteReplace.xlsx Workbook - Started at : 16/10/2026 13:09:23
Finished Processing sheet: CustomInterfaces in C:\Users\vm\source\repos\LISEGA.S3D\Delivery\LISEGA.S3D.Catalog_V3 and HS
plugin VL_2026-10-16\LISEGA.S3D.Catalog_V3 and HS plugin VL_2026-10-16\Excel Workbooks\01 - catalog\LISEGA.S3D.Catalog
_V3_20260911_DeleteReplace.xlsx Workbook - finished at : 16/10/2026 13:09:23

Processing sheet : LSV3_Version in C:\Users\vm\source\repos\LISEGA.S3D\Delivery\LISEGA.S3D.Catalog_V3 and HS plugi
n VL_2026-10-16\LISEGA.S3D.Catalog_V3 and HS plugin VL_2026-10-16\Excel Workbooks\01 - catalog\LISEGA.S3D.Catalog_V3_202
60911_DeleteReplace.xlsx Workbook - Started at : 16/10/2026 13:09:23
Successfully Created the PartClass Object : LSV3_Version
Successfully Created the object in row [0]
Successfully Created the object in row [10]
Successfully Created the object in row [11]
Finished Processing sheet: LSV3_Version in C:\Users\vm\source\repos\LISEGA.S3D\Delivery\LISEGA.S3D.Catalog_V3 and

```

Figure 10 – Displaying the bulkload log in an additional terminal window

5 Completion

After all tasks have been completed, a success message is displayed. In the following example, the success message appears as green text in the lower-right area. The logs for the bulkload runs are marked with red rectangles.

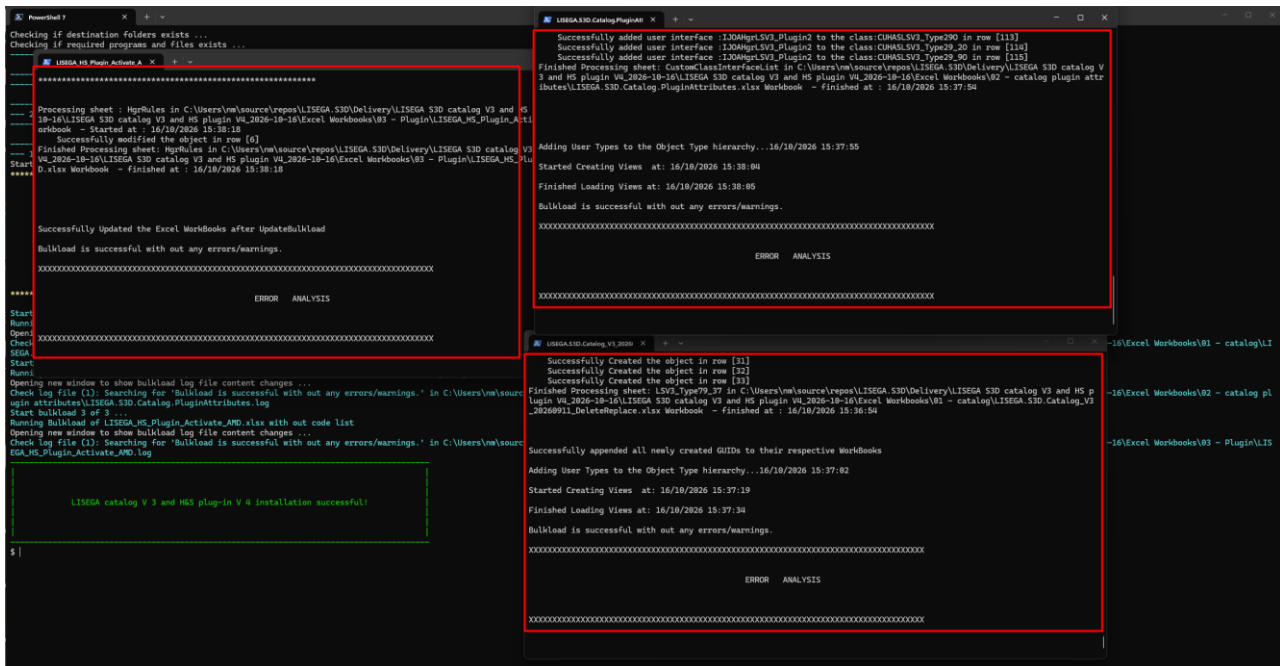


Figure 11 – Successful completion of the catalog and plug-in installation

The installation is complete. You can close all terminal windows.

Appendix A Command-line parameters

Parameter	Description	Example
InstallMode	Defines the installation mode. Possible values: INSTALL or UPDATE.	-InstallMode INSTALL
S3DinstDir	Root directory of the Smart 3D installation.	-S3DinstDir "C:\Program Files (x86)\Smart3D"
SymbolShare	Root directory of the symbol share.	-SymbolShare "F:\SharedContent"
DBserver	Computer name of the SQL Server on which the catalog database is running.	-DBserver DESKTOP-PSAB7UO
DBcatalog	Name of the catalog database.	-DBcatalog S3D_TRAIN_V14_CDB
DBcatalogSchema	Name of the catalog schema database.	-DBcatalogSchema S3D_TRAIN_V14_CDB_SCHEMA
ViewBulkloadLogs	Switch for displaying the bulkload logs in real time so that progress can be monitored.	-ViewBulkloadLogs

Optional parameter

Parameter	Description	Example
DBserverSchema	Computer name of the SQL Server on which the catalog schema database is running. This parameter can be omitted if the same computer is used for the catalog database.	-DBserverSchema DESKTOP-PSAB7UO