

Lisega Plugin for PDMS Draft & Everything 3D Draw

12.1.0

Installation and User Manual

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Author: Ingenieurbüro Werk GmbH
Hauptstraße 85
16348 Wandlitz (Germany)

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1 Installation

The plugin requires at least PDMS 12.1 SP4.60 or Everything 3D 2.1.

1.1 Scope of delivery

In addition to this documentation, the package contains files that define the interface within PDMS, ie the forms, functions and objects. Also the databases that the LISEGA components provide are included.

1.2 Installation of the Plugins

It is assumed, that AVEVA default settings are used. If you changed them, according adjustments are required. Please extract the zip file such in your project folder, that there is a `lisega` folder.

To use LICAD PDMS & E3D Plugin with PML Drawing Production, several environment variables must be set correctly. This is usually done by adjusting the file `projects.bat` in your project folder.

Please add the following lines in this file:

Listing 1.1 – Default installation

```
1      call %projects_dir%lisega\addinlis.bat %projects_dir%lisega\  
2      call %projects_dir%lisega\databases\evarslis.bat %projects_dir%lisega\databases\
```

If no file `projects.bat` available, yet, you can take the one available in your `lisega` folder.

Please take care, that the environment variable `projects_dir` should point to your projects folder.

1.2.1 Special Case PDMS 12.1

If you are using PDMS 12.1, it is required to adjust the file `evars.bat` in your `Installationdirectory` by adding the following line at the very end:

Listing 1.2 – Additional line for PDMS

```
1      call "%projects_dir%projects.bat"
```

1.2.2 Special Case Isodraft

If you want to load the LISEGA addin together with other addins, the last added addin must adjust the `DBARLOCAL` file. Further information can be found in the path `pdmsui\iso\gen` in your LISEGA installation directory.

1.3 Installation of the Database

In order to include the LISGA catalog in its projects, a PDMS project called *LIS* is provided whose databases are to be included as *foreign databases* in the relevant MDB of the respective PDMS project. The databases contained in *LIS* are listed in table 1.1. User name and password are *SYSTEM* and *XXXXXX*.

Table 1.1 – Databases in the Projekt *LIS*

Databasename	Type	#	Filename
KATALOG/LS_CATA	CATA	6993	%LIS000%/lis6993_0001
KATALOG/LS_CATA_LANGUAGE	CATA	6991	%LIS000%/lis6991_0001
KATALOG/LS_DICT	DICT	6990	%LIS000%/lis6990_0001
KATALOG/H&S_DICT	DICT	6994	%LIS000%/lis6994_0001
KATALOG/LS_PROP	PROP	69920	%LIS000%/lis69920_0001
KATALOG/PADD	PADD	6969	%LIS000%/lis6969_0001

2 Overview of Design/Model tools

A pre-condition for the trouble-free functioning of the LISEGA design macros in the menu items of the LISEGA DESIGN menu is that the the hanger supports have been created with the actual version of PDMS-catalogue and actual LICAD Version is used to create the LOF files.

2.1 Start Output File (LOF)

File browser to start the LOF files created by LICAD. The LSROD sprefs of the respective HANG elements are set simultaneously and the hex nuts put in place. (LSROD's are subject to graduation in length)

2.2 Create Input File (LIF)

For the calculation or design of a hanger arrangement the corresponding UDA values of the ATTA can be transferred to LICAD. This menu creates a file for this from PDMS that can be imported into LICAD.

Note: Set output path (.LIF): The path for the. LIF file can be defined by the environment variable HANGER.


Example of how HANGER is defined: `setHANGER=C:\Data\Lif-Files`

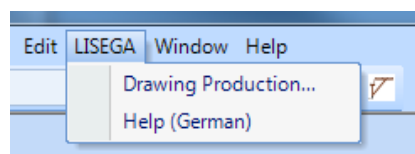
If the variable is not defined, the file is written to the starting area, where PDMS was started from, eg into the desktop.

2.3 Re-Set of rods and nuts

On manual creation or alteration of a hanger design (e.g. created via a LOF file) it is imperative to carry out this menu procedure! In this way the correct LSROD sprefs of the individual HANG elements are (newly) set and the hex nuts newly placed according to the modified design.




3 The Draft Application

The draft drawing wizard under Draft can be found via the menu item **LISEGA >> Drawing Production** or in the toolbar as head . A dialog box with two settings pages appears.





3.1 The “Attachment” page – Basic settings for drawing

On the first page *Attachment* (figure 3.1), a specific drawing of an ATTA or an entire pipe can be customized.

Select ATTA/PIPE First the ATTA or the PIPE needs to be specified. Enter the name of an existing ATTA- or PIPE-Element. Alternatively, you can use  to enable the list to the right to navigate to an ATTA. By  or double-click it will be taken over. Each Atta point is stored in its own SHEE named <DRWG-Name>/S1, <DRWG-Name>/S2, etc. Again there is also the possibility of navigation using . If necessary, you can customize the name of the drawing (DRWG) via *Drawing Name*.

Content of Drawlist Here, you can select secondary steel construction and adjoining primary steel construction as drawing, and add additional existing drawlists.

Backing Sheet In this section the drawing size can be defined. According to the selected size the matching LISEGA-Backing-Sheet is selected. If you select *Lisega Logo and Revision Table*, a form from the %PMLLIB%\draft\lisega\plot\ folder with Lisega logo and revision table is included. You can also choose other backing sheets.

Keyplan If a keyplan is needed, please select the checkbox next to *Keyplan*, click on , select an axis system from the list on the right and then use  or double-click. If no installation plan is required, remove the tick at *Keyplan* if necessary.

Views Select the number and orientation of the views in this section. Furthermore, specifications for the calculation of the scale can be made and detail views can be added. The more views you want, the greater the drawing must be.

3 The Draft Application

Create Pipe Support Drawing v10.2.7

Attachment Project

Select ATTA/PIPE

Atta/Pipe:

Drawing Name:


Content of Drawlist

☒ Add Secondary Steel automatically

☒ Add touching Primary Steel automatically

Add. Drawlist:

Backing Sheet



☐ A3 ☒ A2 ☐ A1 ☐ A0

☒ Liseqa Logo and Revision Table

Keyplan

☐ Axes System:

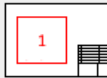
Axes Names Prefix:

Select ATTA or PIPE:

WORL -> *

- TPWL Asl_Template_World
- TPWL Walls&Floors_Template_World
- APPLDW Sample_Pipe_Assemblies
- APPLDW DesignChecker/Rules
- TPWL Equipment-Application-Templates
- TPWL STD/EQUIPMENT-TEMPLATES
- TPWL ADV/EQUIPMENT-TEMPLATES
- TPWL Penetration_Template_World
- TPWL Concrete_Template_World
- TPWL Standalone_Fixings
- TPWL ROOM-DESIGN-SAMPLE-TEMPLATE-FIX1
- SITE Steel_Template_Site
- TPWL Equipment-Application-Templates
- TPWL STD/EXAMPLE-TEMPLATES

Views



☒ 1st View ☐ 2nd View ☐ 3rd View ☐ 4th View

Horizontal Turn (0-360°)

Autom... 0 E

E 0 N

☐ Lock View

Basis for Scale

Support, Secondary and Primar... As 1st View As 1st View As 1st View

Scale Mode

Auto As 1st View As 1st View As 1st View

☐ With Support Dimensioning


☐ With Secondary Steel Dimensioning

☐ With Detailed Views for Plates and Rips

☐ With Detailed Views for Lugs

Extra Section Plane Distance (mm):

Apply



Reset Cancel

Figure 3.1 – The Attachment page.

3.2 The “Project” page – Project and language settings

The settings within second page *Project* (figure 3.2) are usually more general and often apply for multiple drawings.

Create Pipe Support Drawing v10.2.7

Attachment Project

Select Registry:
Registry: ▶

Various Settings
Language: English (EN) ▼

☐ Hidden Lines Restraint
☒ Height Above Symbols
☒ Show Pipe
☒ Tube End Symbols
☒ Position Numbers
☒ Data Files
☐ Tube slope
☐ Atta coordinates WORLD ▼
☐ Hanger Offset in Keyplan (:USTHNGOFFSET)

Select Registry:
 WORL -> *
 PTWL /POINT//WORLD
 DEPT LISEGA_NEW/LIBRARY
 DEPT LISEGA/LIBRARY
 DEPT LISEGA/LOGO/LIBRARY
 STYLWL Project_STYLWL
 PTWL /POINT//WORLD
 PTWL /POINT//WORLD
 DEPT Master_Libraries
 DEPT TT/Master_Libraries
 STYLWL Master_PenStyles

Header
 Project Name: LIS Title: Pipe Support Support type: -
 Prepared: juergen Derived from: -
 Reviewed: - Responsible depart.: -
 Approved: - Take over depart.: -
 Revision: A Date: May 7, 2018

Apply Reset Cancel

LISEGA

Figure 3.2 – The *Project* page.

Select Registry Enter the name of an existing REGI-element. Alternatively, you can use ▶ to enable the list to the right for navigation to a REGI. This is then accepted by ◀ or double-click.

3 The Draft Application

Various Settings Here are several settings available, which usually remain unchanged on multiple drawings.

Header Here, you can enter information that will appear on the drawing in the area of the title block. This information is necessary for revision and responsibility.

Finally, after the Apply button switches to green, this button can be pressed. The drawing will be generated.

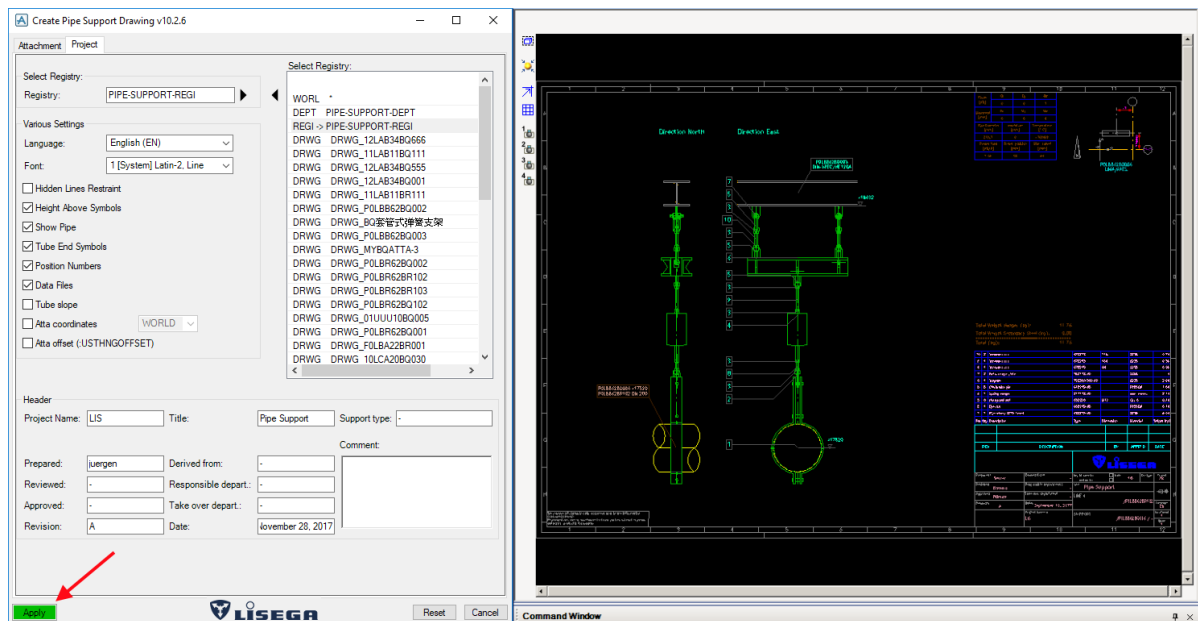


Figure 3.3 – Created drawing.

4 The Lisega-4.0-Catalog

With the LISEGA-4.0-catalog, via the SPEC /LISEGA4.0 the components are provided with descriptive texts for 10 languages: chinese, german, english, french, italian, japanese, polish, portuguese, russian and spanish.

4.1 Programmatic access

Depending on the desired language, the global variable `!!lisLang` corresponding to table 4.1 is required before the query of the appropriate description attribute (`dtxr`, `dtxs`, `dtxt` will be done.

If this variable is not set to a valid value, the three attributes provide only English / French / German descriptions.

Table 4.1 – Language-specific descriptive text. The languages marked with * are the default setting for the respective attribute, if `!!lisLang` is not set correctly.

Language	Acronym (Value for <code>!!lisLang</code>)	Attribute
English*	EN	<code>dtxr</code>
Chinese	CN	<code>dtxr</code>
Japanese	JP	<code>dtxr</code>
Russian	RU	<code>dtxr</code>
French*	FR	<code>dtxs</code>
Polish	PL	<code>dtxs</code>
only Typ-Code	TYPE	<code>dtxs</code>
German*	DE	<code>dtxt</code>
Italian	IT	<code>dtxt</code>
Portuguese	PT	<code>dtxt</code>
Spanish	ES	<code>dtxt</code>

Example. The current element CE is a constant hanger and has the SPREF /LISEGA4.0/71C369. The Polish description will be provided as follows

```
!!lisLang = 'PL'
q dtxs
```

The result is “Ramionan typ 71C369 (wł. Zawiesz. stałosilowe 11C319)”.

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