

Lisega Plugin for PDMS Draft & Everything 3D Draw

10.3.18

Installation and User Manual

April 6, 2020

Author: Ingenieurbüro Werk GmbH
Hauptstraße 85
D - 16348 Wandlitz, Ortsteil Schönwalde

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Preface

This document describes the LISEGA PDMS DraftPlugin version 10.3.18 for generating drawings under PDMS 12.1 SP2.35 and later respectively under Everything 3D 1.1 and later. It is tied to the LISEGA catalog database for pipe hangers.

1 Installation

The plugin requires at least PDMS 12.1 SP2.35 or Everything 3D 1.1.

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 Database

In order to include the LISEGA 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.

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/PADD	PADD	6969	%LIS000%/lis6969_0001

1.3 Installation of the Plugins

To use the PDMS plugin, the environment variables PMLLIB and PDMSUI must be extended. This is usually done in *evvars.bat*. Example: The plug-in files are in the D:\LISEGA folder. Then *evvars.bat* for PDMS would have to be extended as follows:

Listing 1.1: Version for PDMS

```
1 if not "%pmllib%"==" " goto pmllok
2 set pmllib=D:\LISEGA\pmllib %1\pmllib
3 echo PMLLIB set to %PMLLIB%
4 :pmllok
5
6 if not "%pdmsui%"==" " goto uiok
7 set pdmsui=D:\LISEGA\pdmsui %1\pdmsui
8 echo PDMSUI set to %PDMSUI%
9 :uiok
```

Here, %1 is expanded as the PDMS installation directory.


1 Installation

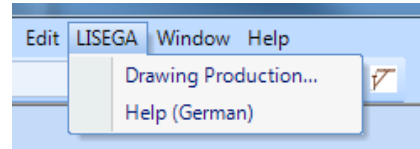
For E3D the following change is necessary:

Listing 1.2: Version for E3D

```
1 for %%x in ("%pmllib%\") do set pmllib=%%~dpsx
2 set pmllib=D:\LISEGA\pmlib %pmllib%
3 echo PMLLIB set to %pmllib%
4
5 for %%x in ("%PMLUI%\") do set PMLUI=%%~dpsx
6 set PMLUI=D:\LISEGA\pdmsui %PMLUI%
7 echo PMLUI set to %PMLUI%
8 :uiok
```




2 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.





2.1 The “Attachment” page – Basic settings for drawing

On the first page *Attachment* (figure 2.1), 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 SHEET 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.

2 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

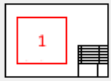
TPWL ROOM-DESIGN-SAMPLE-TEMPLATE-FIXT

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

LISEGA

Figure 2.1: The *Attachment* page.

2.2 The “Project” page – Project and language settings

The settings within second page *Project* (figure 2.2) 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:

☐ Hidden Lines Restraint

☒ Height Above Symbols

☒ Show Pipe

☒ Tube End Symbols

☒ Position Numbers

☒ Data Files

☐ Tube slope

☐ Atta coordinates

☐ 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: Title: Support type:

Prepared: Derived from:

Reviewed: Responsible depart.:

Approved: Take over depart.:

Revision: Date:

Comment:

Apply Reset Cancel

Figure 2.2: 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.

2 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.

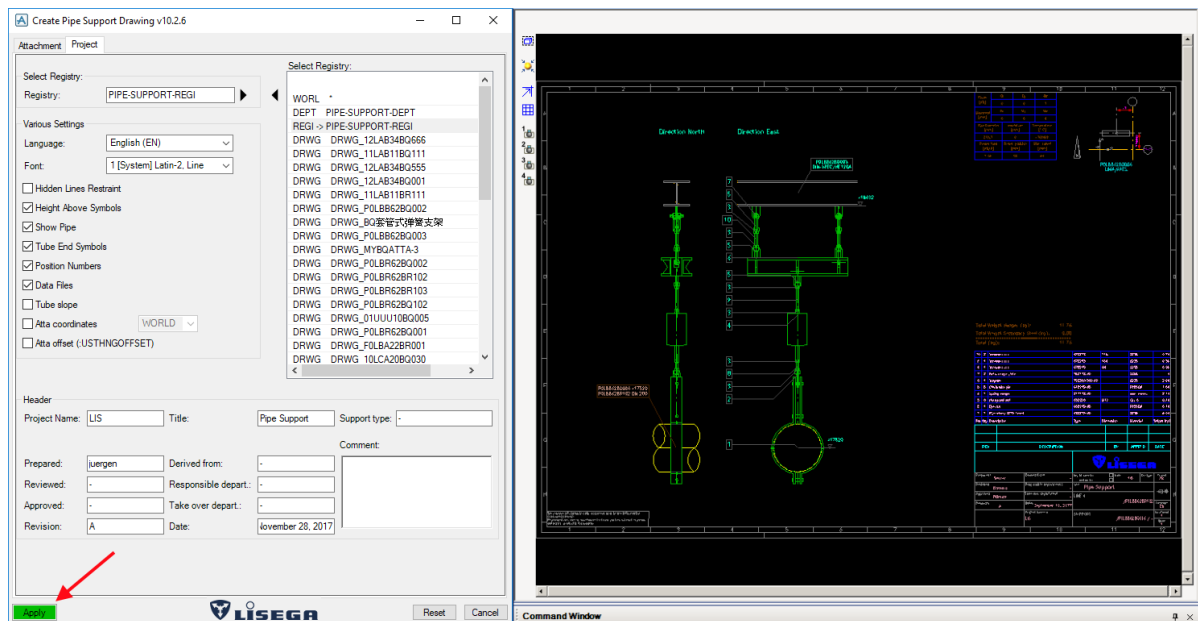


Figure 2.3: Created drawing.

3 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.

3.1 Programmatic access

Depending on the desired language, the global variable `!!lisLang` corresponding to table 3.1 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 3.1: 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	dtxr
Chinese	CN	dtxr
Japanese	JP	dtxr
Russian	RU	dtxr
French*	FR	dtxs
Polish	PL	dtxs
only Typ-Code	TYPE	dtxs
German*	DE	dtxt
Italian	IT	dtxt
Portuguese	PT	dtxt
Spanish	ES	dtxt

Beispiel. 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)”.