## Customization Fundamentals



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#### Are you an attendee in a Digipara Liftdesigner online training module?

We recommend to print these out in advance so that you have a handout for your own editing and for your notes during your training.



#### A4.1 <u>Digipara Liftdesigner Datamanager</u>

- Toolbars / Menus
- Table View Docking Window
- Docking Windows with Help Function
- Comments related to BIM Components
- Excel File Export / Import



#### A4.2 Manufacturer Modules / BIM Libraries

- RID Area
- Adding a new Manufacturer Module / RID area
- Adding a new records for the manufacturer
- New Manufacturer Module validity

#### A4.3 Module Files

Registering external module files



#### A4.4 Module Import

- Datapool Directory
- Close Digipara Liftdesigner Applications

#### A4.5 Module Export

- Exporting Manufacturer Modules / BIM Libraries
- Sharing Manufacturer Modules / BIM Libraries



#### A4.6 Product Loading Workflow

- Practical Example: Governor
- Basic Typical Processes

#### A4.8 Practice

Practice: Data distribution

#### A4.7 Integrate your own Logo

Link your Logo to your BIM Library

#### A4.9 <u>Summary</u>

Custom Q&A's

# **A4.1**

## Digipara Liftdesigner Datamanager





### ... is the database frontend for the main LD database

- can be found under: C:\Program Files\DigiPara\DigiPara Liftdesigner\*\bin
- ... is primarily used for the administration of the manufacturer specific elevator BIM component data and for the registration of external manufacturer files.

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		NUM OVR

## Toolbars / Menus A4.1 DIGIPARA LIFTDESIGNER DATAMANAGER

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### The menu as well as the toolbars description is part of the coming product loading training.

• As soon as data records or columns are selected, inactive (gray colored) buttons become available.



## Tables Docking Window

#### A4.1 DIGIPARA LIFTDESIGNER DATAMANAGER

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The "Table View" docking window displays all DigiPara Liftdesigner database tables ordered by different node categories.

The most important tables are located under following groups:

- General Data
- Elevator Data
- Sheet Template Data
- Translation & Help Data

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푸· General Data	
Elevator Data	
Escalator Data	
⊕ Sheet Template Data	
⊕ Translation & Help	
Program Configurations	
	50.mdf]

## Tables Docking Window A4.1 DIGIPARA LIFTDESIGNER DATAMANAGER

The main category for loading elevator components is Elevator Data, which is split into elevator assembly sub categories:

- Car:
  - Contains all tables referring to car specific components (car frames, platforms, car doors, governor, etc.)
- Cabin Design:
  - Contains all tables referring to car interior specific components (panels, mirrors, hand rails, seats, etc.)
- Entrances:
  - Contains all tables referring to entrance specifics components (landing doors, jambs, wall openings, etc.)
- Hydraulic Units:
  - Contains all tables referring to hydraulic elevator specifics components (jacks, yoke guides, tanks, etc.)

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## Tables Docking Window A4.1 DIGIPARA LIFTDESIGNER DATAMANAGER

Traction Units:

- Contains all tables referring to electric elevator specifics components (counterweights, gearing machines, machine beds, etc.)
- Fixings Units:
  - Contains all tables referring to any kind of elevator fixing material (rail brackets, separator beams, rope wall fixings, etc.)
- Machine Room Components:
  - Contains all tables referring to elevator machine room components (switch gear cabinets, fans, lamps, duct canals, etc.)
- Other Components:
  - Contains all tables that do not belong to a specific category (pit ladders, pit base units, materials, etc.)
- User-defined Components:
  - special components without standard data table
- Standard Elevators:
  - Contains all tables used to load standard elevators

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#### **Elevator BIM Component Tables**

- ... are located under the "Elevator Data" group
- Clicking on one of the items in the **Table view** docking window displays the corresponding table and sub-tables in the Digipara Liftdesigner Datamanager data-grid area.

Car Fi	rames 🗙										Table view
Liftde	esigner Datama	nager: Drag a colu	umn header here to g	group by that col	umn.						⊞ General Data
₽-	CFT_RID	CFT_DESC Carsling	CFT_SUB_DESC Rope	CFT_MF_RID	CFT_TYPE 10: Traction	CFT_MODE			<u>^</u>		Elevator Data
	CFD_RID	CFD_CFT_R	ID         CFD_IX         CFI           1         0         0	0_PG_GRP CI 10000	FD_CF_CAPAC	CFD_CW	/_MAX C	FD_CW_MIN 0	CFD_CD_MAX = 5000	◀	⊡- Car Car Frames
	CFT_RID	CFT_DESC	CFT_SUB_DESC	CFT_MF_RID	CFT_TYPE	CFT_MODE					- Guide Shoes
•	2	Car sling	Rope	1	11: Traction	0					Car Dears
÷	3	Car sling	Rope	1	12: Traction	0					Car Doors
<b>+</b> -	4	Car sling	Rope	1	13: Traction	0					- Car Door Drives
+-	5	Car sling	Hydraulic - L-sha	1	0: Hydraulic	0					- Car Platforms
	6	Car sling	Hydraulic - L-sha	1	1: Hydraulic	0					Cal Flationis
	7	Car sling	Hydraulic - L-type	1	1: Hydraulic	0					
+-	8	Car sling	Hydraulic - doubl	1	3: Hydraulic	0					
<b>.</b>	9	Car sling	Hydraulic - doubl	1	3: Hydraulic	0					
<u></u>	10	Car sling	Hydraulic - doubl	1	3: Hydraulic	0			+		
	1111								•		

## **Docking Windows with Help Function**

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A4.1 DIGIPARA LIFTDESIGNER DATAMANAGER

## Tabledata Editor

 Shows the selected parameter in help with an image which describes the dimension in Digipara Liftdesigner.

### Quick Help

 Describes the corresponding parameter related to the current BIM component.



## **Comments related to BIM Components**

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A4.1 DIGIPARA LIFTDESIGNER DATAMANAGER

#### Annotate

- The Annotate window allows you to add annotations for each data grid row.
- Select a data grid row and add a comment via the Annotate window. Switch to the data row to automatically save the annotation.
- When you edit an existing comment, you will be asked to overwrite the original document.



## **Comments related to BIM Components**

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A4.1 DIGIPARA LIFTDESIGNER DATAMANAGER

#### Annotate

- Use the button Show Annotation Window to add annotations for every row
- The annotation gets also visible in the Digipara Liftdesigner Select Product dialog → Document View



## **Comments related to BIM Components**

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A4.1 DIGIPARA LIFTDESIGNER DATAMANAGER

### Annotate

- The annotation itself is stored as a Microsoft Word document.
  - Document path description: C:\ProgramData\DigiPara\dcc\DataPool\Doc
    - The data pool main directory. The Doc folder contains the annotation documents.
- Write the annotation directly in Microsoft Word by clicking on the symbol in the Annotate window.
  - Save the document in its default location and close the appl is after you have finished editing the annotation.
    - To include the Annotations in the manufacturer library during an export of the module, you need to activate the **Add annotate files** option in the <u>Manage Modules dialog</u>.

### **Excel File Export / Import** A4.1 DIGIPARA LIFTDESIGNER DATAMANAGER

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## Export a data table as Excel file

- Fill necessary data
- Import it back into the database

## acturer Export Import Translation Excel

Export tables to Excel			-		×									
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Export to Excel File														

# A4.2

## Manufacturer Modules / BIM Libraries





## **General information** A4.2 MANUFACTURER MODULES / BIM LIBRARIES

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# ... store the manufacturer specific information like

- Elevator BIM Component table data
- Manufacturer specific external files (dwg's, etc.)

# ... can be imported to or exported from the active datapool (\*.ldm12 files)

- Each manufacturer has a unique, global manufacturer ID (RID), the "MF\_RID".
- Manufacturer ID's are administered via the L\_ManufacturerTab table which can be found under the General Data -> Basic Tables -> Manufacturer

	Developer	Training\Pool1\Data\LD50.mdf]		*	N 🖌 🔒		+	📥 🛋 🚞		
90:Nev	v Manufa	cturer	-				_		Win	dow
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				_						
designer	r Datama	nager: Drag a column header here f	to group by that colu	imn.				Basic Tables		
MF_F	RID 🗠	MF_DESC	MF_VERSION	MF_MODE	MF_MOD_PART_NO	MF_PROJECT_UNIT		Manufacture	rs	
	5600000	Common components (IMP)	1.02	0	LD3-COMMON-IMP	2: Imperial		- Modulo File		
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	5800000	LD-Visual Basic for Applications	1	0	LD3-OLE	1: Metric		- Standards		
	5900000	LD-RENDER	1	0	LD3-RENDER	1: Metric		- CAD Files		
	6200000	LD-PROFDRAW	1	0	LD3-PROFDRAW	1: Metric		CAD Files S	uppliers	
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_	6800000	Moris	1	0	LD3-MORIS	1: Metric		Elevator Data		
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	7500000 9000000	New Manufacturer	0	0						
► 5	7500000 9000000	New Manufacturer	0	0				Translation & Help		

- A maximum of **100.000** records can be added per manufacturer **ID**, per table.
- e.g. 100.000 different car frames can be added for the manufacturer ALGI to the corresponding table.
   The first car frame record would have a record ID of 800.000, the last one an ID of 899.999



## Adding a new Manufacturer Module / RID area

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A4.2 MANUFACTURER MODULES / BIM LIBRARIES

### Adding a new Manufacturer / DigiPara BIM Library

- 1. Selecting the **Manufacturer** entry located under the **General Data** Group in the **Table view** docking window.
- 2. Adding a new manufacturer via the **L\_ManufacturerTab** button at the bottom of the data grid.
- 3. Completing the dialog with the RID number you have been received from DigiPara. Only DigiPara can provide you with a new RID number.

General Note: Usually DigiPara will provide you with a pre-configured empty manufacturer module, which just needs to be imported into the database.

## Adding a new records for the manufacturer

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A4.2 MANUFACTURER MODULES / BIM LIBRARIES

## Adding a new Manufacturer / DigiPara BIM Library



## Adding a new records for the manufacturer

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Table

A4.2 MANUFACTURER MODULES / BIM LIBRARIES

### Use of the descriptions

- MF\_DESC: library file name
- MF\_DISPLAY DESC: displayed manufacturer name in DigiPara Liftdesigner

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			Vrappiza	10	Now	Onan				MF_DISPLAY_DESC, GOV_DESC, GOV_SUB_D $ \smallsetminus $		N
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Manuf	acturers 🗙		Nume									
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+-	5300000	LD-Hydraulic			1: Metric			0	LD-Hydraulic		h.	
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<b>+</b> -	7500000	LD-Developer			1: Metric			0	LD-Doveloper			
₽-►	900000	New Manufacturer			1: Metric			0	New Manufacturer			
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+-	47600000	LD Region Kit - Italian - Stand	ard (IT)		1: Metric			1252	LD Region Kit - Italia			
+-	48600000	LD Region Kit - Polish (PL)			1: Metric			1250	LD Region Kit - Polis			

📑 DigiPara Liftdesigner - Select Product

**Tree View** 

# Validity of Manufacturer Modules / BIM Libraries (Idm12) <sup>Mil</sup> digipara<sup>®</sup> liftdesigner <sup>A4.2</sup> MANUFACTURER MODULES / BIM LIBRARIES

## Valid, Expiring, Expired or Invalid

- Check the validity of your manufacturer module
- To load your own data correctly into the DigiPara Liftdesigner database, the status must be Valid.
- Otherwise, DigiPara Liftdesigner or DigiPara Liftdesigner Datamanger must be reactivated via the DigiPara licensing dialog or contact DigiPara to have the current license verified.

Selection	Manufacturer	Status	Modules	Translation
	Common components	Valid	Export Data	Translation
	LD-Traction	Valid	03/29/2023	
	LD-Hydraulic	Valid	03/29/2023	-
	Traction elevators (IMP)	Valid	03/29/2023	-
	Hydraulic elevators (IMP)	Valid	03/29/2023	-
	Common components (IMP)	Valid	03/29/2023	
	LD-Developer	Valid	03/29/2023	
	New Manufacturer	Valid	03/29/2023	
	LD Region Kit - French - Standard (FR)	valiu	03/29/2023	
	LD Region Kit - Italian - Standard (IT)	Valid	03/29/2023	
	LD Region Kit - Polish (PL)	Valid	03/29/2023	
	LD Region Kit - Russian (RU)	Valid	03/29/2023	
	LD Region Kit - Spanish - Standard (ES)	Valid	03/29/2023	
	LD Basian Kit Turkish (TD)	Malid	02/20/2022	Γ
iPara BIM Librar	y: D:\LD_Pools\TrainingDataPool\Data\LD50.mdf	Valid	02/20/2022	
0.1	l la sala st all			

#### 

A4.2 MANUFACTURER MODULES / BIM LIBRARIES

Delete an existing Manufacturer Modules / BIM Libraries (ldm12) correctly

from the database

Selection	Manufacturer	Status	Expiration date	Module RID 🛆
	Common components	Valid	03/29/2023	1
	LD-Traction	Valid	03/29/2023	52
	LD-Hydraulic	Valid	03/29/2023	53
	Traction elevators (IMP)	Valid	03/29/2023	54
	Hydraulic elevators (IMP)	Valid	03/29/2023	55
	Common components (IMP)	Valid	03/29/2023	56
	LD-Developer	Valid	03/29/2023	75
	New Manufacturer	Valid	03/29/2023	90
	Region Kit - French - Standard (FR)	Valid	03/29/2023	459
	LD Region Kit - Italian - Standard (IT)	Valid	03/29/2023	476
	LD Region Kit - Polish (PL)	Valid	03/29/2023	486
	LD Region Kit - Russian (RU)	Valid	03/29/2023	492
	LD Region Kit - Spanish - Standard (ES)	Valio	03/29/2023	499
ara BIM Library Select all	: D:\LD_Pools\TrainingDataPool\Data\LD50.mdf	Valid	sta modular.	Delete modu
Exp Open Exp	ort modules  Are you sure you	want to delete the	selected modules	

# A4.3

**Modules Files** 





## Registering external module files

## iftdesigner 🕫

A4.3 MODULES FILES

Registering own files (e.g. DWG's like title block, drawing border ...) via the MODULE FILES table for the module export.

- The registered files are transferred with the module export and inserted after an import process into another data pool.
- The paths in the MODF\_FILENAME column needs to be relatively to the data pool directory!

	Ŧ			DigiPara Liftde	signer Datamanag	er 2021				- 🗆 X
U	Home	Options								
Standa	rd Data Pool [0	:\ProgramData\DigiPara\2021\dcc\DataPool\	\Data\LD50.mdf]	- 🔊 🌶		1	电、讯	🛃 🗗	.  +	
110	03:LIFTdesigne	er 5 - Dynamic Sheet Templates	-		ן 📲 ו	<b>1</b>	- 49 -	a , <sup>‡+</sup>		
ALL So	rt modules by	description			Copy BIM	*	Band	Text Size	Colur	mn Table Help
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Madulal	-					1				Table view P X
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_	110300124	\blocks\bord_0v.dwg	110300000	0	110300000: LIFT@	jes			_	Standards
	110300125	\blocks\bord_1h.dwg	110300000	0	110300000: LIFT@	tes				CAD Files
	110300126	\blocks\bord_1v.dwg	110300000	0	110300000: LIFT	les				CAD Files Suppliers
	110300127	\blocks\bord_2h.dwg	110300000	0	110300000: LIFT	les				⊡
_	110300128	\blocks\bord_2v.dwg	110300000	0	110300000: LIFT	les				⊕ Program Extensions
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-	110300130	\blocks\bord_4_hor.dwg	110300000	0	110300000: LIFT	les				
	110300003	\Blocks\bord_ANSI_A_Imp.dwg	110300000	0	110300000: LIFT	les				
_	110300004	\Blocks\bord_ANSI_B_Imp.dwg	110300000	0	110300000: LIFT	les				Translation & Help
-	110300005	\Blocks\bord_ANSI_E_Imp.dwg	110300000	0	110300000: LIFT	les				Program Configurations
-	110300006	\Blocks\Car-guide-forces.dwg	110300000	0	110300000: LIFT	les				E. [C:\ProgramData\DigiPara\2021\dcc\DataPool\Data\LD
-	110300007	\Blocks\Car-guide-forces_Imp.dwg	110300000	0	110300000: LIFT	les				
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# **A4.4**

Module Import







### Importing Manufacturer Module / DigiPara BIM Libraries (Idm12) by using the Windows Explorer

• The usual local path for the Import file: C:\ProgramData\DigiPara\dcc\DataPool\data\Import

🗈 Dig	iPara Liftdesigner Poolmanager 2021	
Ma	nage Pools	
4	Standard Data Pool System UI C:\ProgramData\DigiPara\2021\dcc\DataPool\Data\LD50.mdf	
	Datapool name	1
	Standard Data Pool Check	your data pool
	Connection string	location
	Connection string	
		1
	Updates	
	Synchronize masterpool	
	DigiPara Liftdesigner Cloud	
	Remove Check autoimport Reimport	

## Close DigiPara Liftdesigner Applications

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A4.4 MODULE IMPORT

Please close DigiPara Liftdesigner applications before importing the .ldm12 file!

- Paste your .ldm12 file with the BIM Components you want to import in the data pool under the Import folder.
- If you start the DigiPara Liftdesigner or DigiPara Liftdesigner
   Datamanager again, the copied module will be unpacked and imported in the data base automatically.



# A4.5

Module Export





# Exporting Manufacturer Modules / BIM Libraries (Idm12) III digipara® liftdesigner

via Export Manufacturer Modules



• via Database Pool Manager



 The exported .ldm12 files can be imported into any other data pool.

S	election	Manufacturer	Status	Expiration date	Module RID	
		Ceita	Valid	01/15/2019	66	
		Moris	Valid	01/15/2019	68	
0	7	LD-Developer	Valid	01/15/2019	75	
		LD Region Kit - French - Standard (FR)	Valid	01/15/2019	459	
		LD Region Kit - Italian - Standard (IT)	Valid	01/15/2019	476	
		LD Region Kit - Polish (PL)	Valid	01/15/2019	486	
		LD Region Kit - Russian (RU)	Valid	01/15/2019	492	
		LD Region Kit - Spanish - Standard (ES)	Valid	01/15/2019	499	
		LD Region Kit - Turkish (TR)	Valid	01/15/2019	522	
		LD Program Messages	Valid	01/15/2019	529	
		ETN	Valid	01/15/2019	590	
		Henning	Valid	01/15/2019	593	
		LIETdatamananar	Valid	01/15/2019	500	-
DigiF	Para BIM Li	brary: C:\_DeveloperTraining\Pool1\Data\LD50.m	df		144	
DigiF	Para BIM Lii Select a Open	brary: C:\_DeveloperTraining\Pool1\Data\LD50.m II Unselect all Export modules Export Directory Export Directory F Add annota Add Profil	df content ite files Group Nodes files	☐ Create Exp ☐ Create SQI ☑ Add Textur	Delete moduli ort TXT file file e files	8

## Sharing Manufacturer Modules / BIM Libraries (ldm12) A4.5 MODULE EXPORT

### The exported Idm12 file is located under Export folder in the current data pool

The usual local path for the Export file: C:\ProgramData\DigiPara\dcc\DataPool\data\Export



iftdesigner 🕫

# **A4.6**

Product Loading Workflow





#### Recommendation: Add a new data pool

- Working with at least 2 data pools is recommended when loading new components or dynamic sheet templates.
  - One pool for developing new product and another for testing.



### **Basic Typical Processes**

- Copy a similar BIM Component in DigiPara Liftdesigner Datamanager
- Edit the Meta Data in DigiPara Liftdesigner Datamanager
- Load your edited BIM Component in DigiPara Liftdesigner

## Find a similar BIM Component

• in DigiPara Liftdesigner

#### Find out:

- Manufacturer / BIM Library
- Unique RID number

Lock Update       Overspeed governor [Gov.]         V       [0010] Tools         Component state       Active         10020] General       Manufacturer         Designation       Governor         Type       Standard         V       [0021] Governor         Fixing Profiles       Activ         V       [0022] Project Level Geometry Information         Create geometry       By parent         Create geometry status       Create         V       [0024] Product Options         Selected Product Options       Select from Option List         V       [0170] Z - Position         Governor position       [] In the pit         DZ [mm]       0         V       [0171] XY - Direction         Preset directions       ?         Y [3635] View Frame Settings         > [3635] View Frame Settings         > [3805] Render         V       [4210] Product Administration         Object name       LDXLovernor, idGovernor         RID       1	EIg	Jenschallen	<del>7</del>
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## igipara liftdesigner

## 🕫 digipara<sup>®</sup> liftdesigner



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#### Edit the Meta Data and Diameter

• in DigiPara Liftdesigner Datamanager

## Add a new specific description for the new copied BIM Component.

▼     DigiPara Liftdesigner Datamanager 2021									
Home Options									
Standard Data Pool [C:\ProgramData\DigiPara\2021\dcc\DataPool\Data\LD50.mdf]       •         90:New Manufacturer       •         \$\frac{2}{4}\$ Sort modules by description       Edit Database Settings	Image: Copy BIM Copy BIM Copy Of Rows       Image: Copy BIM Band Expand       Image: Copy Bin Band Expand								
Governors 💥	Table view	<b>4 х</b>							
Liftdesigner Datamanager: Drag a column header here to group by that column. GOV_RID GOV_DESC GOV_SUB_DESC GOV_PG_GRP GOV_MP 9000000 My Governor Training 9000000 900 Edit Mode! Open a new table to save the new content in the	RID GOV_VMIN GOV_PU_D GOV_PU_T GO 0 2. 2 21( 20 - Car Frames - Guide Shoes - Car Doors - Car Doors - Car Doors - Car Doors - Car Doors - Car Platforms - Safety Gears - Governors - Tension Weights - Car Operating Panels								

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Load your edited BIM Component

• in DigiPara Liftdesigner



# A4.7

Integrate your own Logo





## **General Information** A4.7 INTEGRATE YOUR OWN LOGO

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#### Image recommendations

- Size: max. 250 px
- Format: png, bmp, jpg
- Name: no spaces or special symbols





#### Location

- must be stored in the current data pool
  - under (standard path): C:\ProgramData\DigiPara\2022\dcc\DataPool\Bmp\LDTreeNode\LDMF

## **Registering Module File**

## The new module file must be register

- 1. Open the data table: Module Files
- 2. Select your library
- 3. Create a new data record
- 4. Add your logo



P

Standard Data Pool [C:\ProgramData\DigiPara\2022\dcc\DataPool\Data\LD5

90:New Manufacturer

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Band

Tex

1

1

Copy BIM

#### A4.7 INTEGRATE YOUR OWN LOGO

#### Define the connection to your library

- 1. Open the data table: Select Product Images
- 2. Select your library
- 3. Switch on all filter level
- 4. Open MF\_DISPLAY\_DESC

Standard Data Pool IC:\ProgramData\DigiPara\2022\dcc\DataPool\Data\LD5					Level 1: All m	Copy BIM omponer	its	Band expand	Text Size Plus View 0	aA I+ I- Grid	Column autosize	Table view Wir
Manufacturers Module Files Select Product Images Y				Level 2: All modules     Tabellenansicht     General Data     Elevator Data								
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	65200001 65200002	65200000 65200000	65200001	Acla ALG	a Gl		LDTreeN LDTreeN			Interface		
	65200003 65200004	65200000 65200000	65200001 65200001	11     Aljo     LDTreeN       11     Alpha GmbH     LDTreeN		LDTreeN LDTreeN						
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- 5. Add a new data record
- 6. Fill in the library description

							90:Ne	w Manufactu	rer		*
							Sort mo	dules by de	cription		
									Ed	it Database Settings	
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	65200041	65200000		6520000	1 Schindler				1252	LD Region Kit - Italia	
	65200042	65200000		6520000	1 Otis				1250	LD Region Kit - Polis	
	65200043	65200000		6520000	1 Cobianchi				1250	LD Region Kit Polis	
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Define the path including the correct file name

Select Product Images 💦 😽										
plumn header here to group by that column.										
I_MF_RID	LDPNCI_LDPNCIT_RID	LDPNCI_COL_CO	NTENT	LDPNCI_IMAGE						
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65200000	65200001	Ziehl - Abegg		LDTreeNode\\LDMF\\nv_mf_ziehl.bmp						
65200000	65200001	LIFTdesigner		LDTreeNode\\LDMF\\nv_mf_liftd.bmp						
65200000	65200001	Schindler		LDTreeNode\\LDMF\\nv_mf_schindl.bmp						
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65200000	DT_TYP_DESC	LDTreeNode\Defa				65200000				

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## Test the result in DigiPara Liftdesigner

by exchanging a component



# **A4.8**

Practice





## Export/Import Manufacturer Modules/BIM Libraries (Idm12) digipara liftdesigner A4.8 PRACTICE

### Data distribution

- Export and import your new data using your new created data pool
- Check the availability and correctness of the imported data

# A4.9

## Summary and custom Q&A's





## Congratulations You reached the next level



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Your instructor will be available for individual questions after the module training.

training@digipara.com



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