

 digipara® liftdesigner

CAD Models for
Product Loading

PL3



Recommendation

ONLINE TRAINING



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.

Since DigiPara can not provide software licenses for CAD programs like SolidWorks, Creo, Inventor or AutoCad on the remote training machines, attendees will follow the feature demonstration by the trainer. Attendees can also practice the training samples, but the related CAD software must be installed on the attendees machine.

Please contact DigiPara AG some days in front of the training, to obtain a free DigiPara® Liftdesigner software license, to be installed on the trainees local workstation. Installing other CAD programs as mentioned above needs also to be done by the attendee upfront.

PL3.1 Preparation Steps 3D CAD Models

3D CAD Models in DigiPara Liftdesigner

- Original Base Point
- Benefit of splitting CAD Models into individual Files

PL3.2 Static BIM Component: Guide Shoe

Typical Processes

- in DigiPara Lift designer Datamanager
 - Copy a similar BIM Component
 - Edit the Meta Data
- in DigiPara Lift designer
 - Load your edited BIM Component
 - Load the Developer Work Area
 - Add, align and position your CAD Models
 - Delete unneeded DigiPara Lift designer profiles
 - Save the BIM Component back into the BIM Library

PL3.3 Dyn. BIM Component: Car Frame

Typical Processes

- in DigiPara Liftdesigner Datamanager
 - Copy a similar BIM Component
 - Edit the Meta Data
 - Determine related BIM Components
- in DigiPara Liftdesigner
 - Load your edited BIM Component
 - Load the Developer Work Area
 - Add, align and position your CAD Models
 - Delete unneeded DigiPara Liftdesigner profiles
 - Set the positioning points
 - Save the BIM Component back into the BIM Library
 - Delete unneeded copied data

PL3.4 Dyn. BIM Component: Car Frame

Optional Steps

- in DigiPara Liftdesigner
 - Use of DigiPara Liftdesigner 3D Parameter
 - Associate DigiPara Liftdesigner 3D Parameter
 - Convert to simplified DigiPara Liftdesigner profiles
 - Level of Development (LOD)
 - Set individual LOD

Optional Steps

- in DigiPara Liftdesigner Datamanager
 - Options & Rules
 - Define new and customize copied Product Options
 - Prepare and add dynamic BIM Component Rules

Agenda

PL3.5 Summary

- Custom Q&A's

PL3.1

Preparation Steps

3D CAD Models



PREPARATION
STEPS
3D CAD MODELS

3D CAD Models in DigiPara Liftdesigner

PL3.1 PREPARATION STEPS 3D CAD MODELS

DigiPara® Liftdesigner enables you to add your own 3D CAD Model from Autodesk® Inventor®, PTC® Creo® and SolidWorks®.

- The CAD Model will be displayed exactly as designed, it might need adaption to the concrete elevator project dimensions.



PTC Creo
asm, prt



SolidWorks
sldasm, sldprt



Autodesk Inventor
iam, ipt



STEP Files
stp, step, stpz

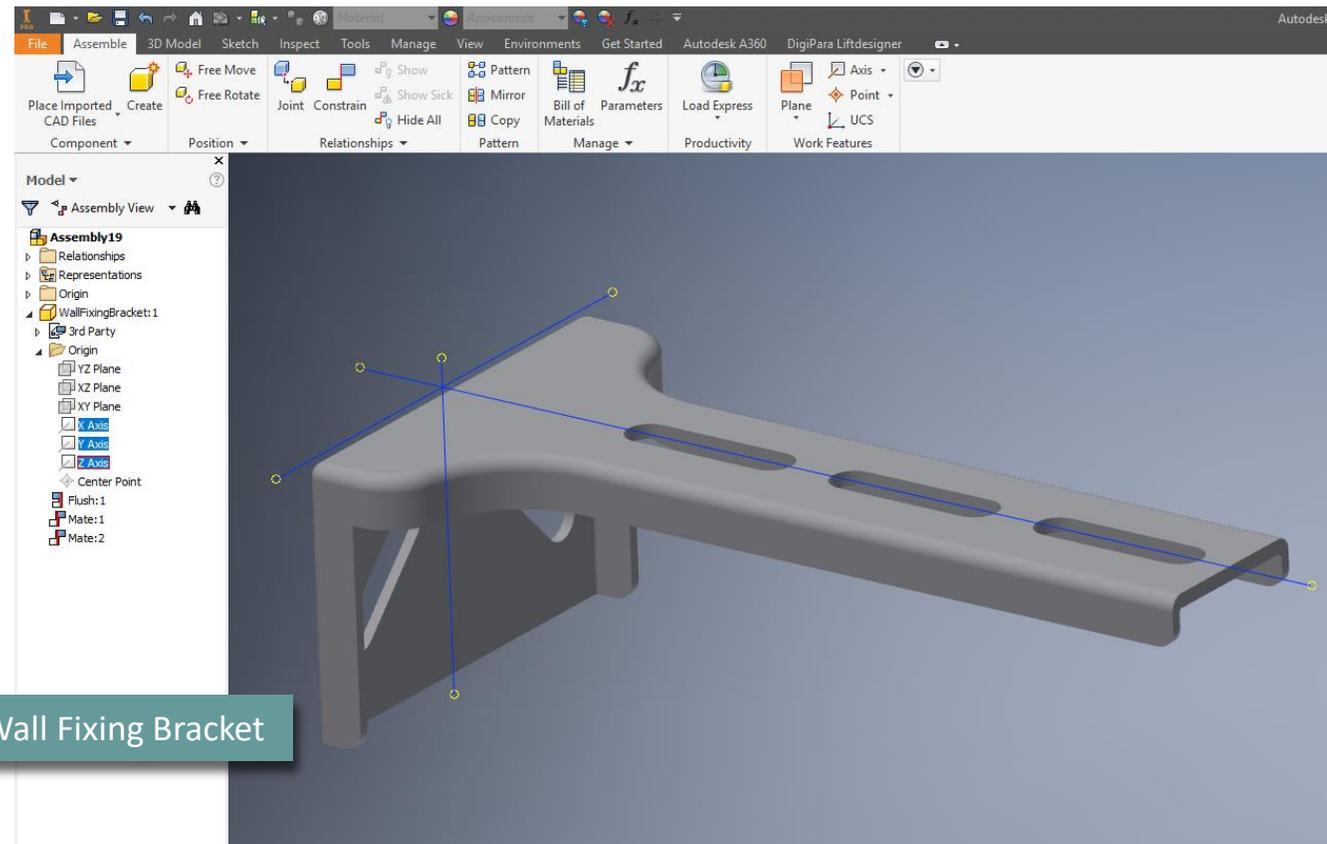
✓ Original CAD Base Point

Original CAD Base Point

PL3.1 PREPARATION STEPS 3D CAD MODELS

Important: Before you import your CAD Model, make sure it has an useful and correct base point.

Having an optimal model base point saves time to adjust the orientation of the CAD model in DigiPara LiftDesigner later.



Example: Wall Fixing Bracket

✓ Benefit of splitting CAD Models

Benefit of splitting CAD Models

PL3.1 PREPARATION STEPS 3D CAD MODELS

For a dynamic BIM Component result in DigiPara Liftdesigner (e.g. Car Frame) it is recommended to have individual assemblies that can move independently of each other.



PL3.2

Static BIM Component:
Guide Shoe

STATIC
BIM
COMPONENT

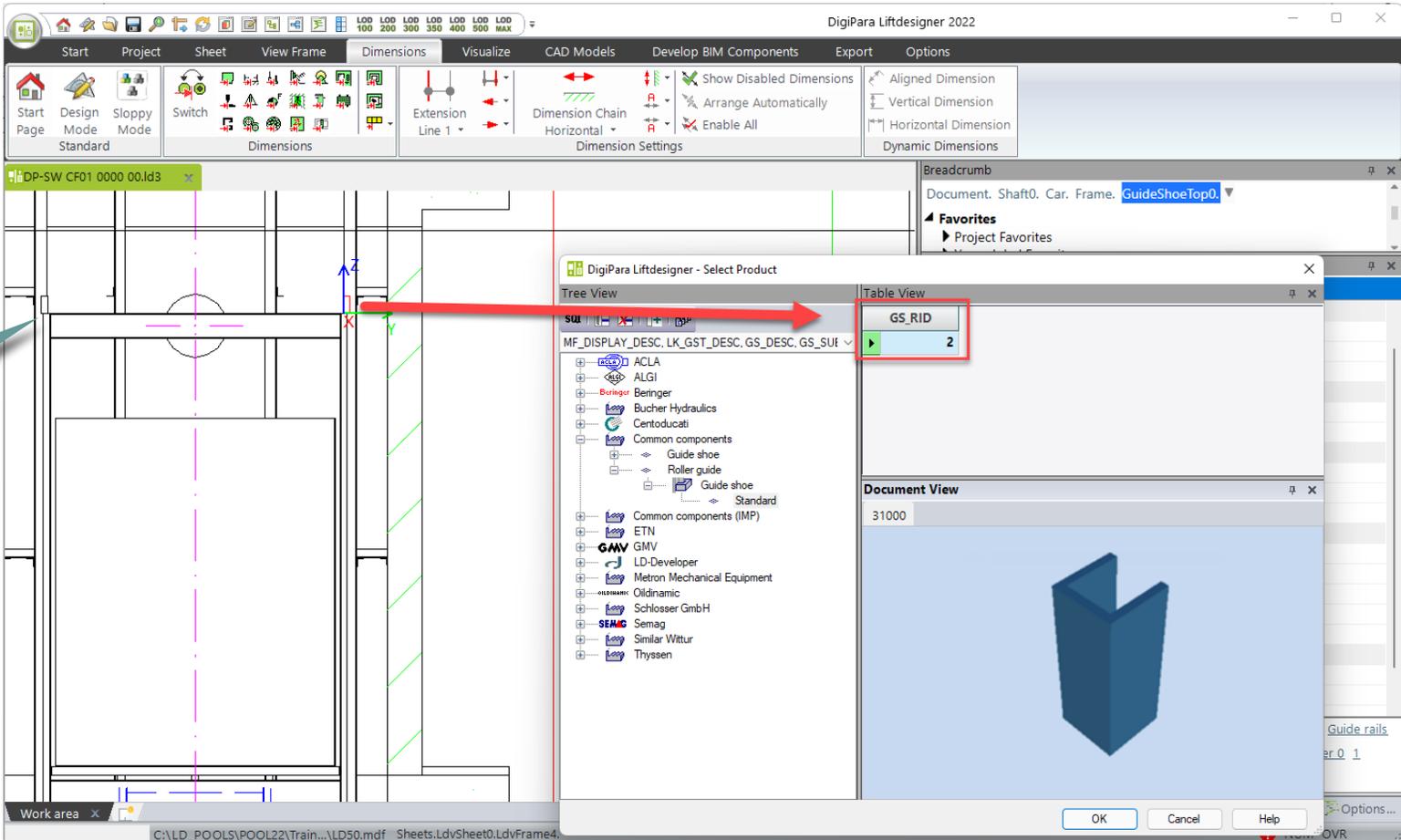


✓ Copy a similar BIM Component

Copy a similar BIM Component

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

RID and Manufacturer are important to find the BIM Component in the DigiPara BIM Library.



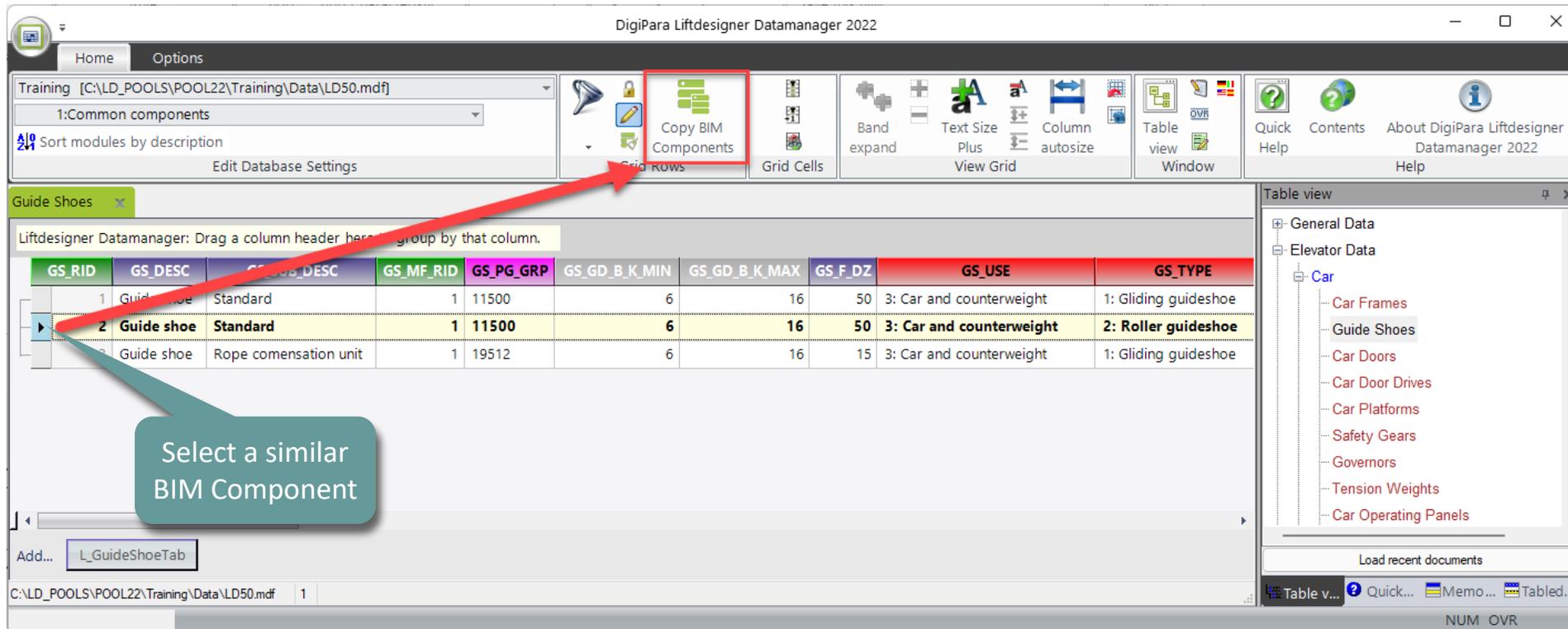
The screenshot shows the DigiPara LiftDesigner 2022 interface. The main window displays a 2D technical drawing of a guide shoe assembly. A callout box on the left explains the function of the guide shoe. The 'Select Product' dialog box is open, showing a tree view of the product library. A red arrow points from the callout box to the 'GS_RID' field in the 'Table View' section of the dialog, which contains the value '2'. The 'Document View' section shows a 3D model of the guide shoe.

Guide shoe is a sliding part between elevator guide rail and car, what we call it guide shoe. It can fix the car on the guide rail and make car running up and down.

Copy a similar BIM Component

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

- ... in DigiPara LiftDesigner Datamanager

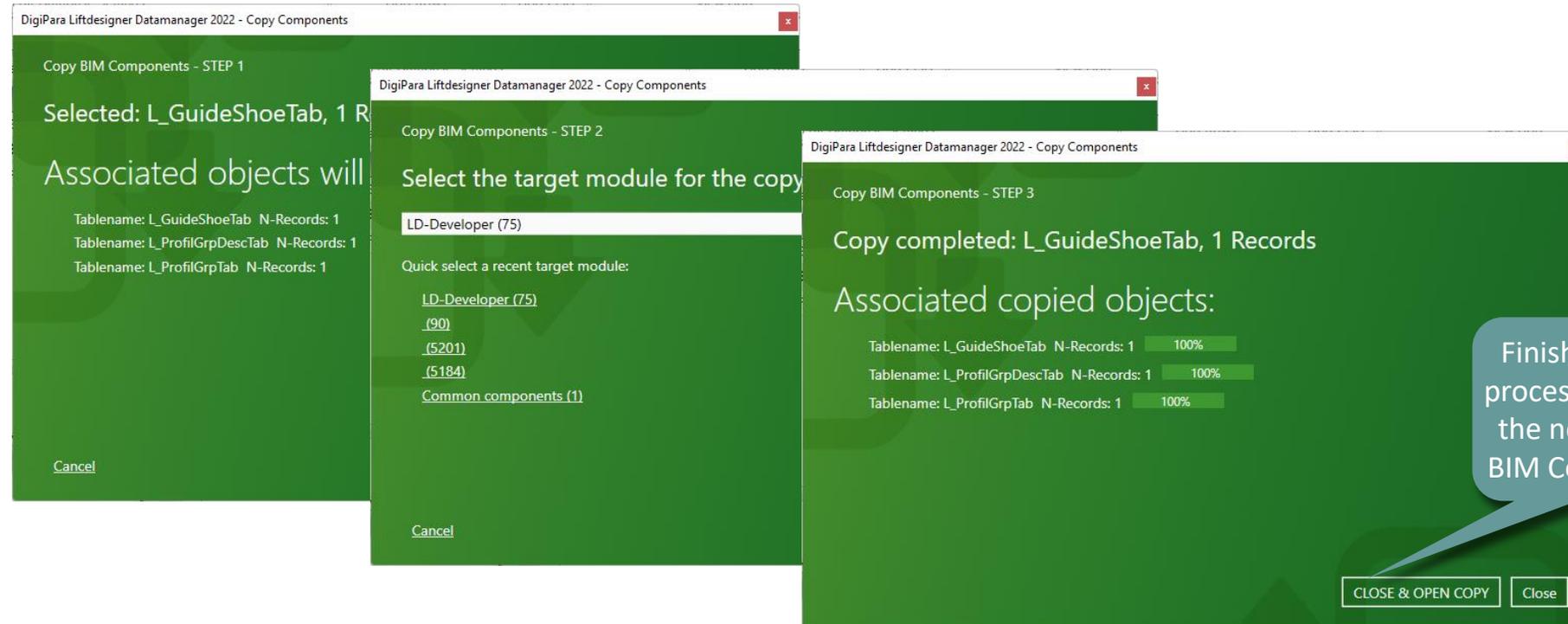


Copy a similar BIM Component

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

The BIM Component is copied with all parameter and values to a new manufacturer / DigiPara BIM Library.

- The steps 1 until 3 guide you through the copy process.



Finish the copy process and open the new copied BIM Component.

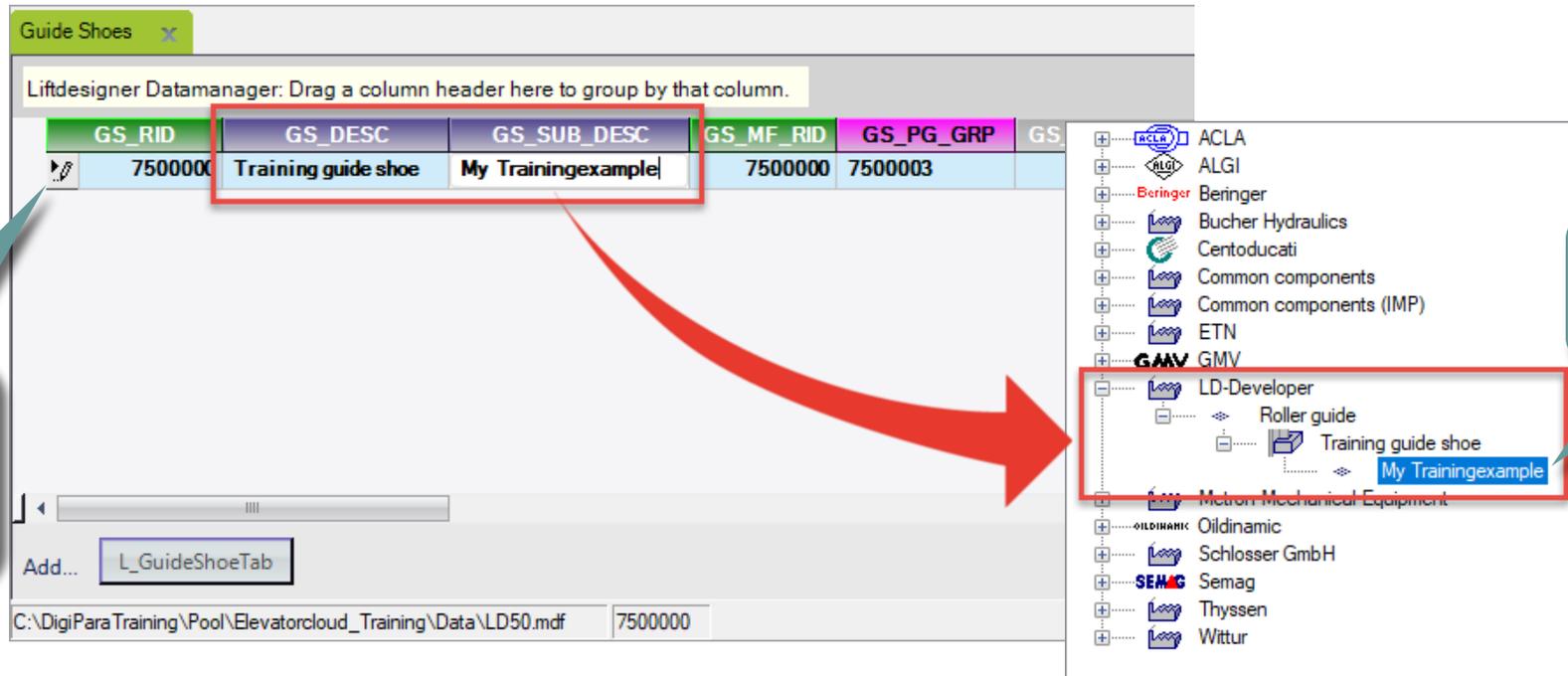
✓ Edit the Meta Data

Edit the Meta Data

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

Description

- Add a new specific description for the new copied BIM Component in DigiPara Lift designer Datamanager



GS_RID	GS_DESC	GS_SUB_DESC	GS_MF_RID	GS_PG_GRP	GS
7500000	Training guide shoe	My Trainingexample	7500000	7500003	

Result in the DigiPara Lift designer BIM Library

Edit Mode! Open a new table to save the new content in the database.

Edit the Meta Data

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

Parameters

- In this case, there is no need to change any guide shoe parameters

The screenshot shows the 'Guide Shoes' table in the LiftDesigner Datamanager. The table has the following columns: MF_RID, GS_PG_GRP, GS_GD_B_K_MIN, GS_GD_B_K_MAX, GS_F_DZ, GS_USE, GS_TYPE, GS_ROLLER_COUNT, and GS_PART_NO. The first row contains the values: 500000, 7500009, 6, 16, 50, 3: Car and counterweight, 2: Roller guideshoe, 3: 3 guide rolls, and 0. A red box highlights the last three columns, and a red arrow points from this box to the Quick Help window.

MF_RID	GS_PG_GRP	GS_GD_B_K_MIN	GS_GD_B_K_MAX	GS_F_DZ	GS_USE	GS_TYPE	GS_ROLLER_COUNT	GS_PART_NO
500000	7500009	6	16	50	3: Car and counterweight	2: Roller guideshoe	3: 3 guide rolls	0

The Quick Help window on the right provides definitions for the parameters:

Parameter	Definition
GS_GD_B_K_MIN	Minimum width of the guide rail head which can be used with the guide shoe
GS_GD_B_K_MAX	Maximum width of the guide rail head which can be used with the guide shoe
GS_F_DZ	Distance between IP (insert point) of the guide shoe and the rail force attack point
GS_USE	Used component of the guide shoe: 1 - Car 2 - Counterweight 3 - Car and counterweight
GS_TYPE	Type of the guide shoe: 1 - Gliding guide shoe 2 - Roller guide shoe
GS_ROLLER_COUNT	Quantity of the rolls: 1 - Gliding system -> no roll 2 - 2 guide rolls 3 - 3 guide rolls 4 - 4 guide rolls
GS_PART_NO	Item-No., Order No. or similar number which identifies the part

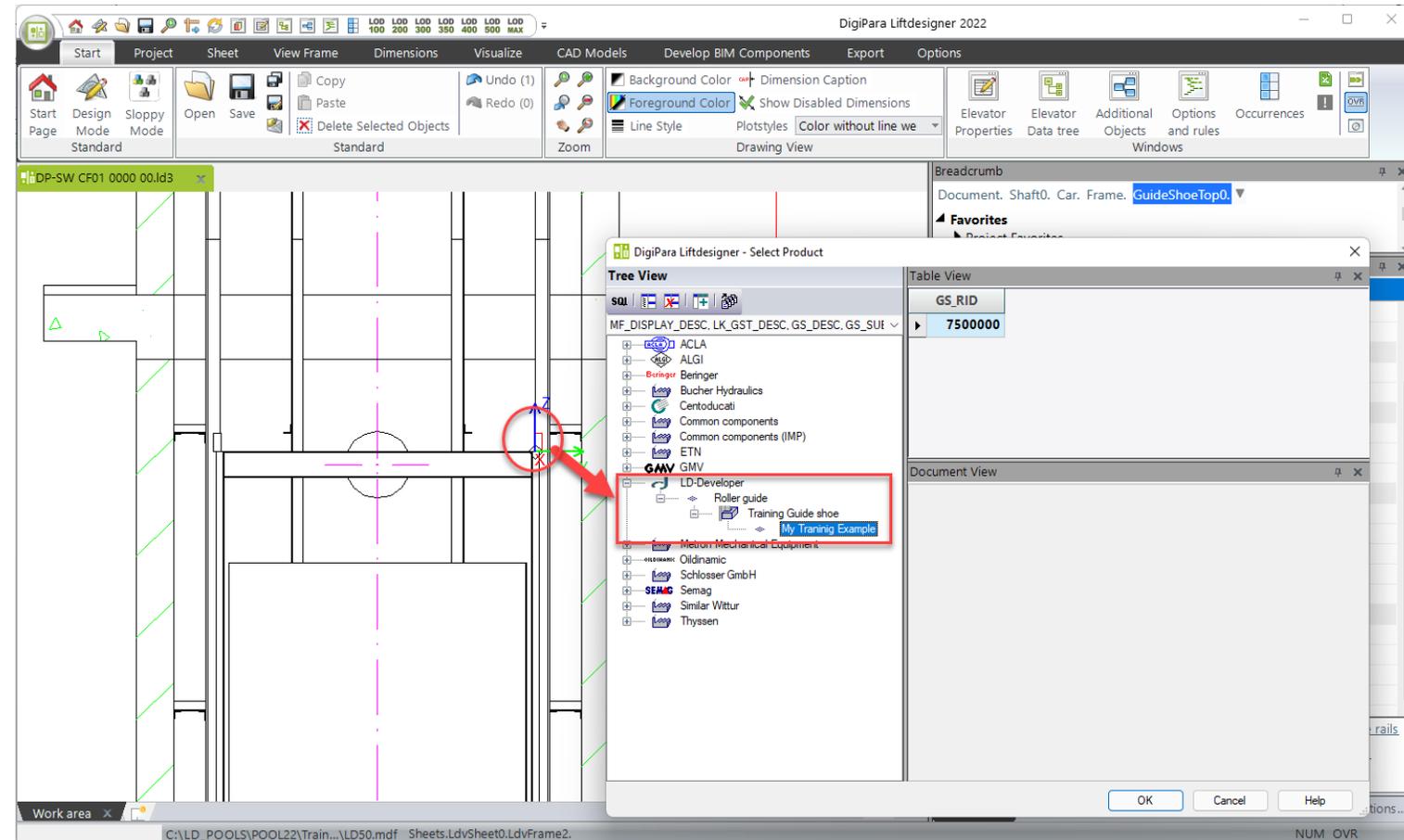
Quick help helps you understand what parameter definitions mean

✓ Load your edited BIM Component

Load your edited BIM Component

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

- ... in DigiPara Liftdesigner



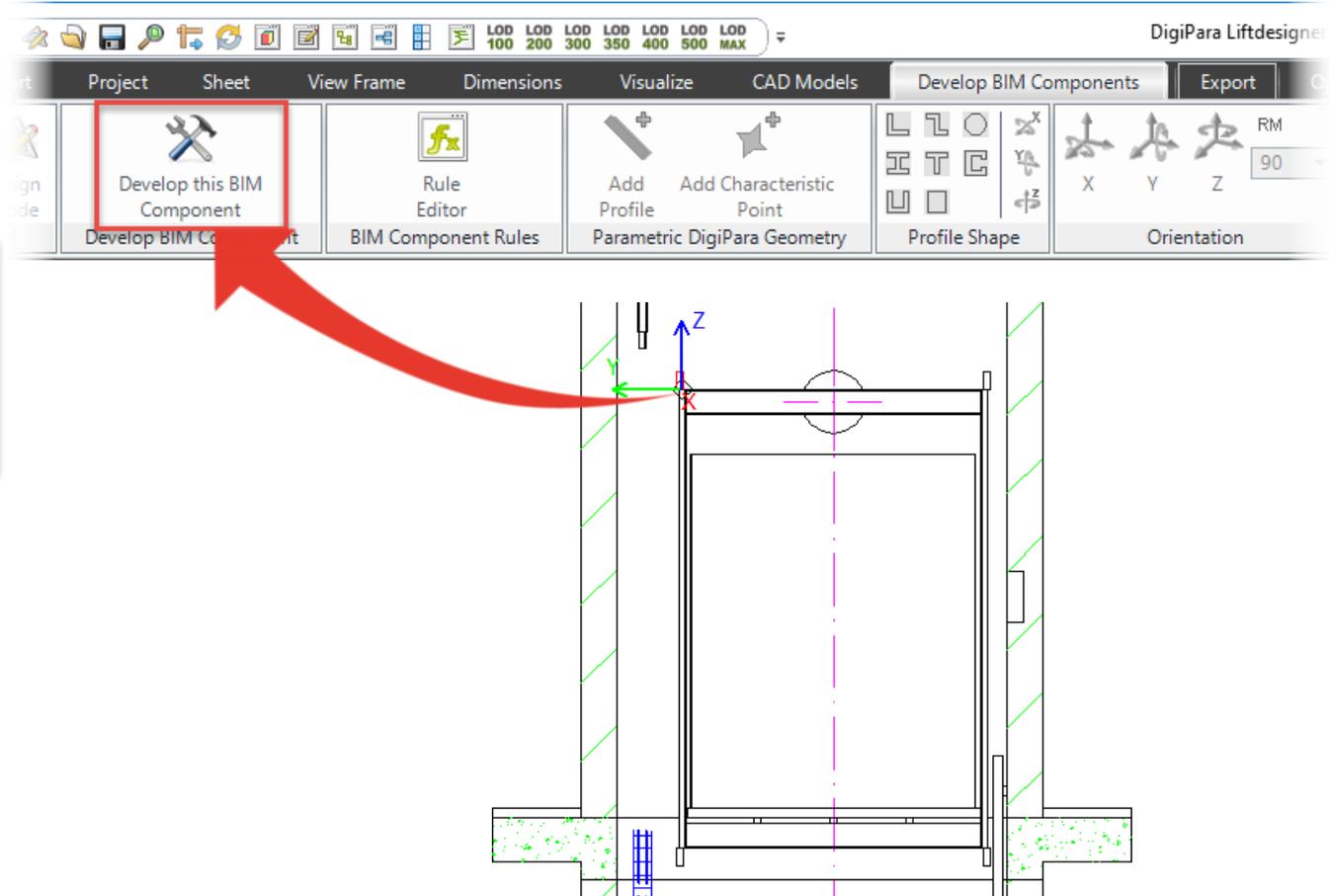
✓ Load the Developer Work Area

Load the Developer Work Area

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

- ... in DigiPara LiftDesigner via the BIM Component

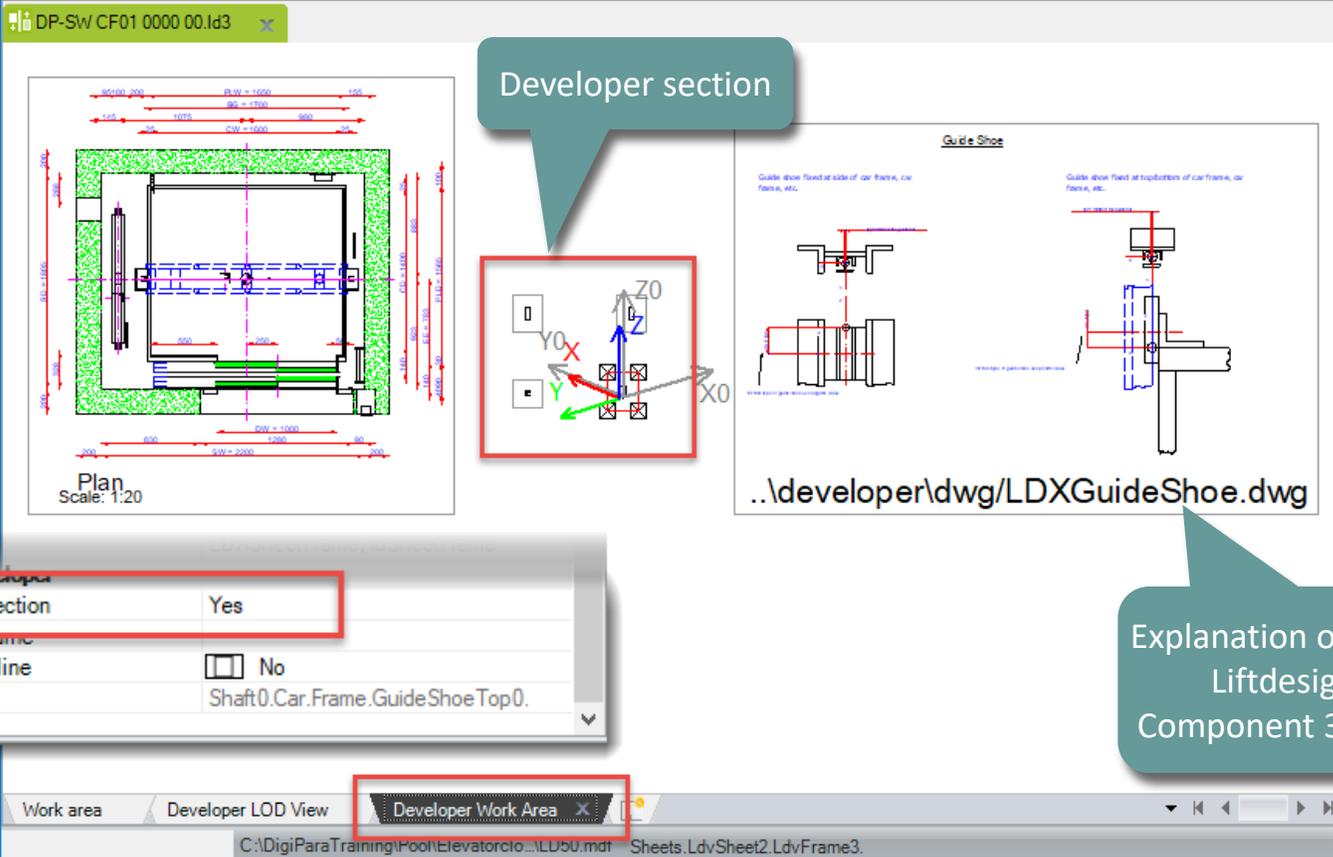
Select the corresponding BIM Component in an existing view frame and click on the button: Develop this BIM Component



Load the Developer Work Area

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

Working in the Developer Work Area



The screenshot displays the software interface for loading a developer work area. It features a plan view of a car frame with dimensions, a developer section view, and a detailed view of a guide shoe component. A callout box labeled "Developer section" points to a 3D coordinate system (X0, Y0, Z0) overlaid on the plan view. Another callout box labeled "Explanation of the DigiPara Liftdesigner BIM Component 3D Parameter" points to a detail view of the guide shoe component, which is titled "Guide Shoe" and includes descriptive text: "Guide shoe fixed at side of car frame, car frame, etc." and "Guide shoe fixed at top/bottom of car frame, car frame, etc.". A dialog box in the foreground shows the "Developer section" parameter set to "Yes". The bottom status bar indicates the current view is "Developer Work Area".

DP-Sw CF01 0000 00.ld3

Developer section

Plan
Scale: 1:20

Guide Shoe

Guide shoe fixed at side of car frame, car frame, etc.

Guide shoe fixed at top/bottom of car frame, car frame, etc.

..\developer\dwg/LDXGuideShoe.dwg

[1220] Developer
Developer section Yes
Developer name
Develop Outline No
Component Shaft0.Car.Frame.GuideShoe Top0.

Work area Developer LOD View Developer Work Area

C:\DigiParaTraining\Pool\Elevatorclo...LD50.mdt Sheets.LdvSheet2.LdvFrame3.

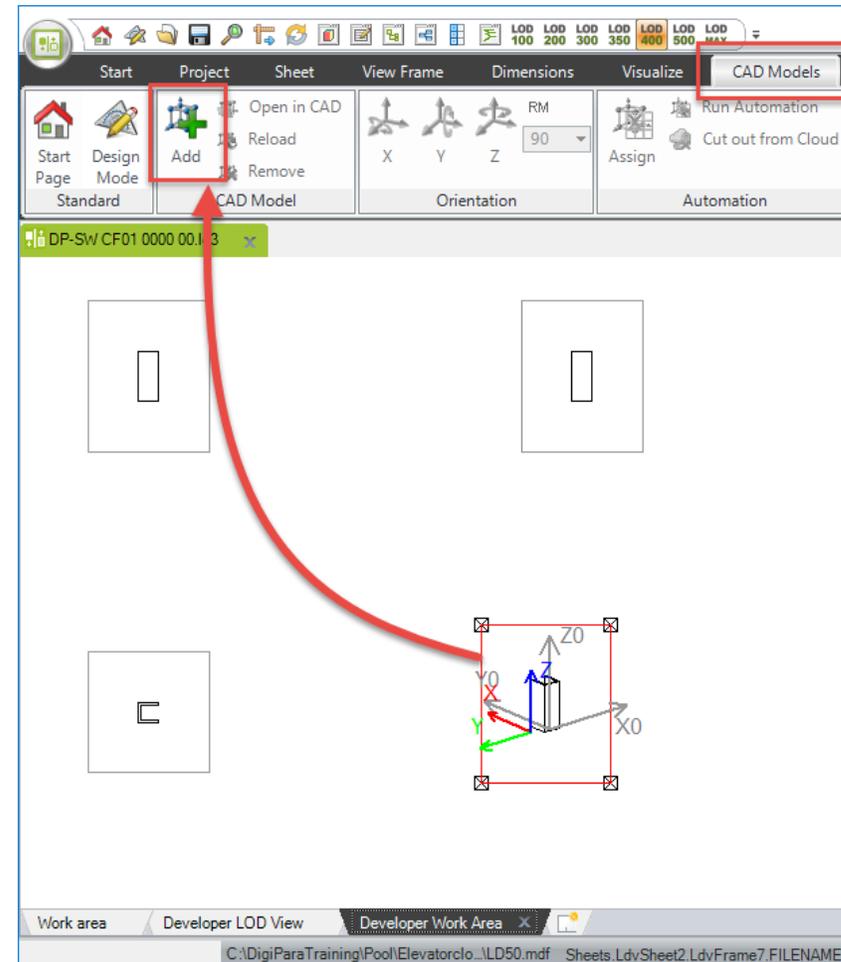
✓ Add, align and position your CAD
Models

Add, align and position your CAD Models

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

Add your CAD Model

- ... using a Developer section view in the DigiPara Liftdesigner Developer Work Area

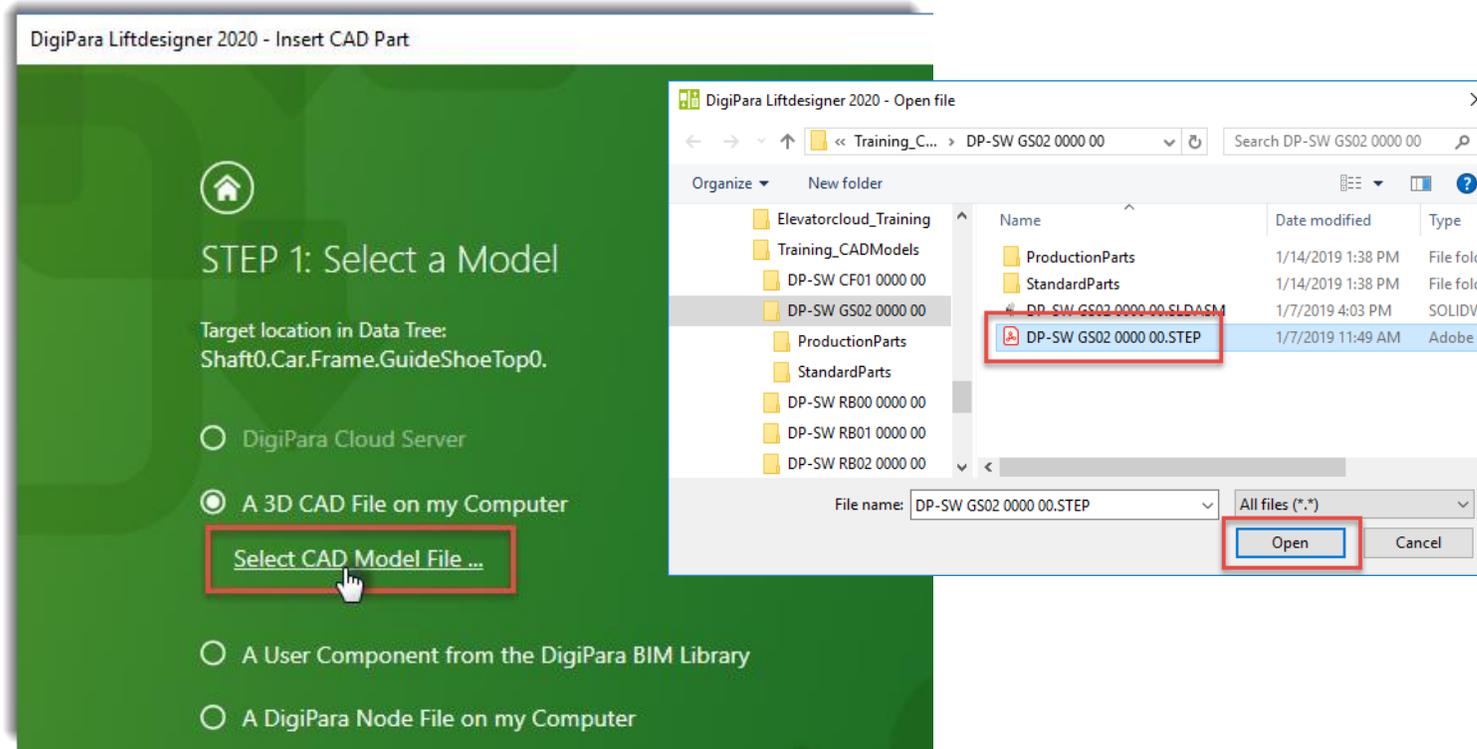


Add, align and position your CAD Models

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

Add your CAD Model

- The CAD Model is located at the base point of the BIM Component.

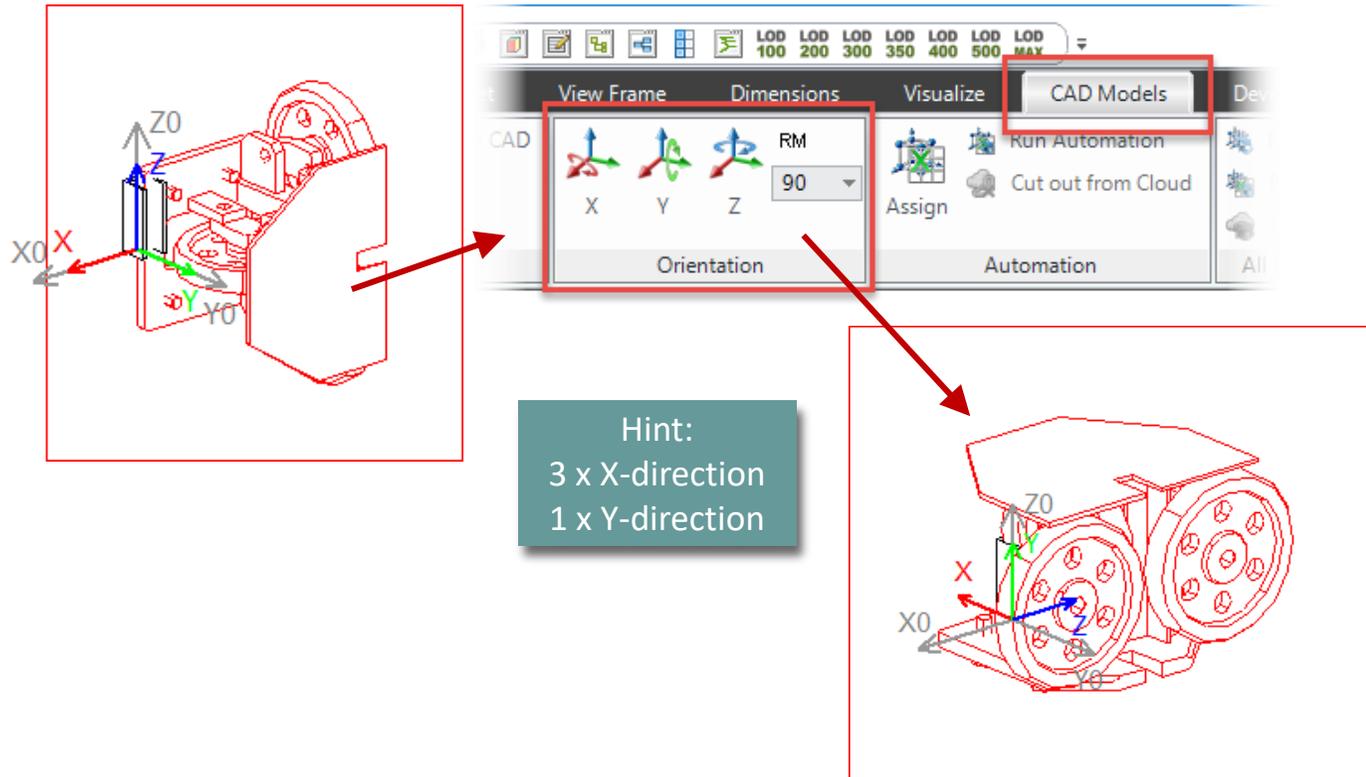


Add, align and position your CAD Models

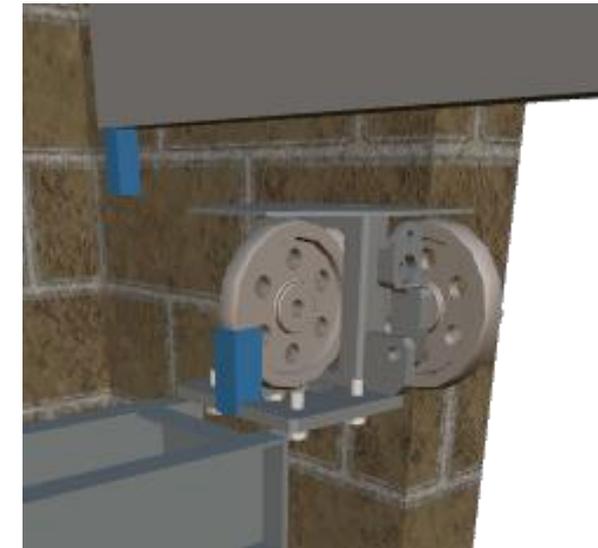
PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

Align your CAD Model

- ... using X, Y and Z coordinates under the CAD Models tab



Hint:
3 x X-direction
1 x Y-direction

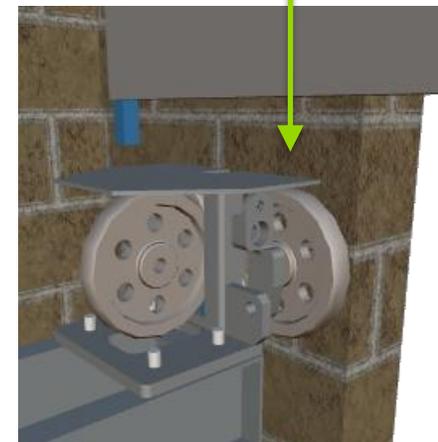
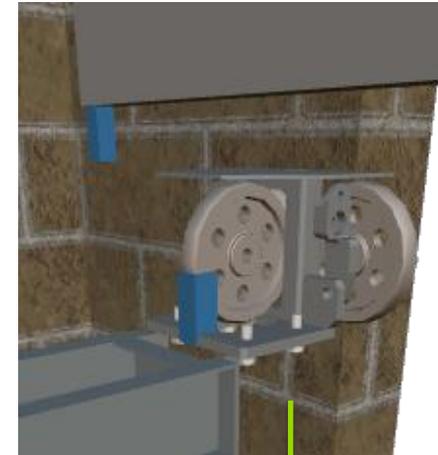
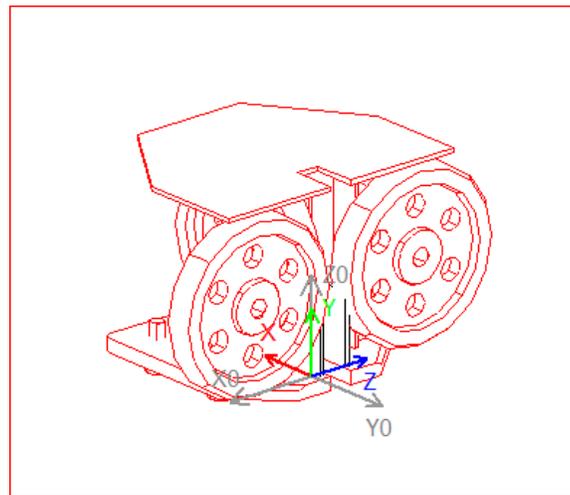
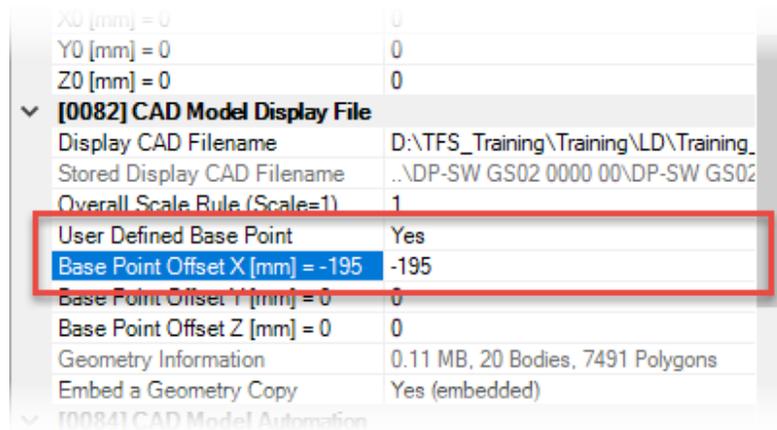


Add, align and position your CAD Models

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

Position your CAD Model

- ... via a user defined base point in the Properties Window

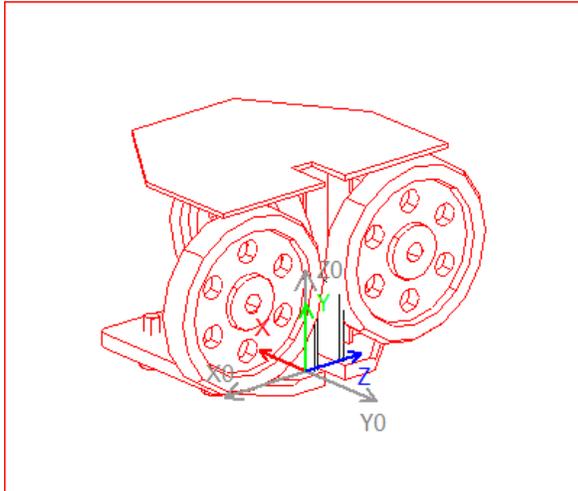


Add, align and position your CAD Models

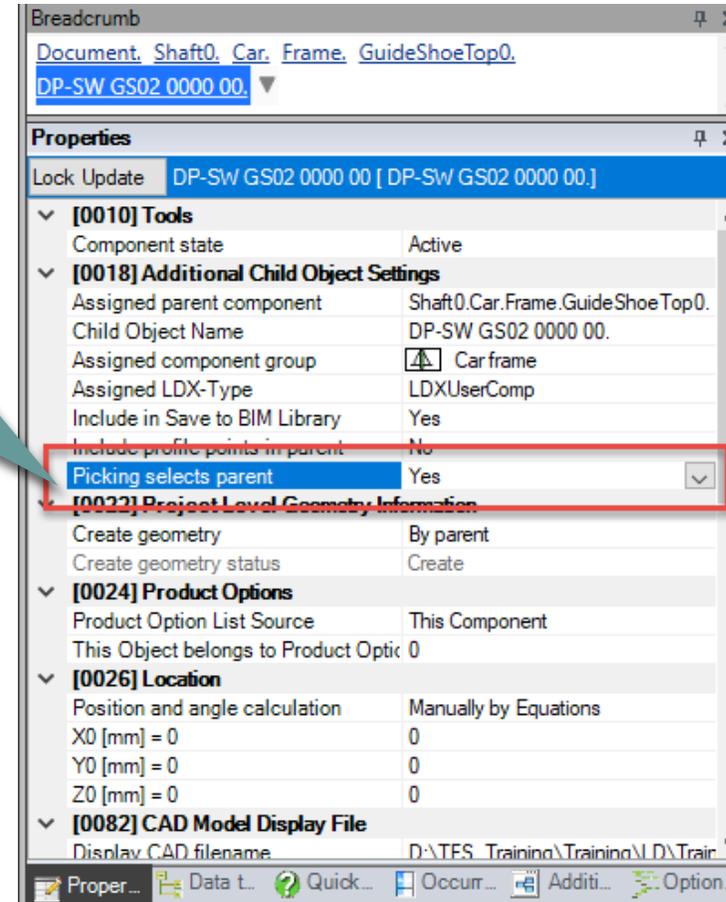
PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

CAD Model setting: Picking selects parent

- Picking selects parent: YES



The parent BIM Component will always be selected in non-developer view frames.

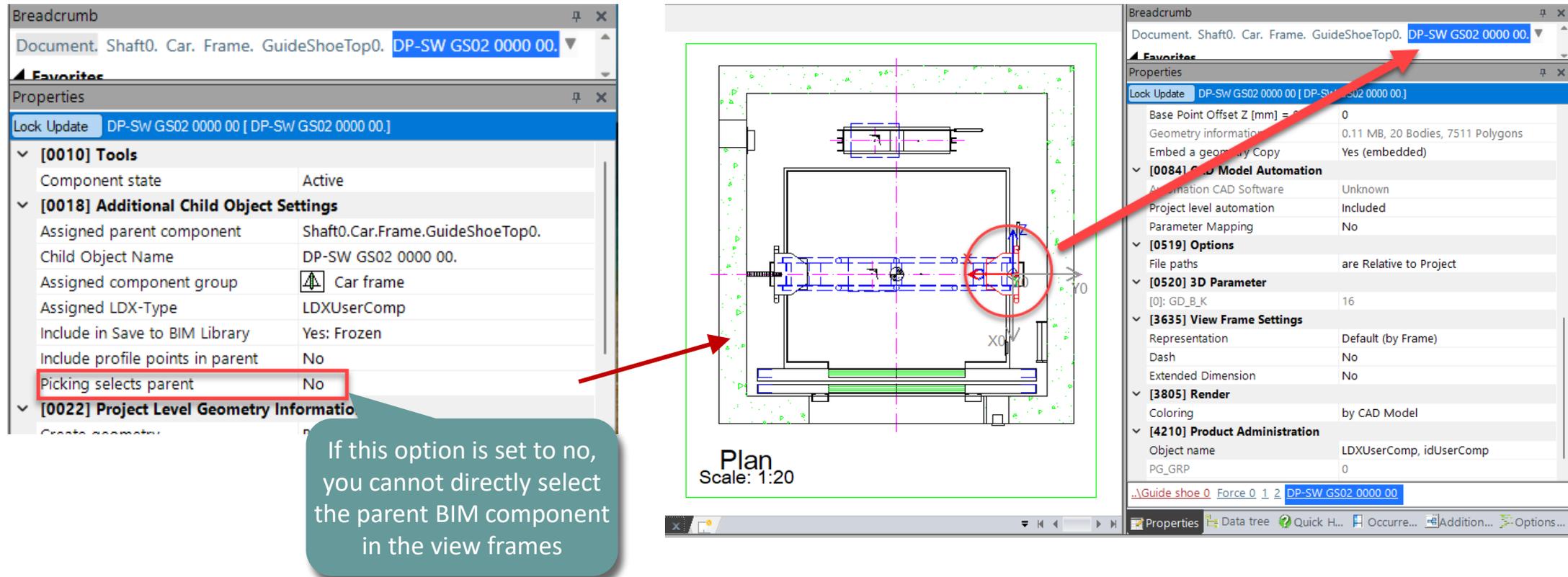


Add, align and position your CAD Models

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

CAD Model setting: Picking selects parent

- Picking selects parent: NO (not recommended)



The screenshot displays the software interface with a CAD model of a guide shoe assembly. The left panel shows the 'Properties' window for the selected component, 'DP-SW GS02 0000 00'. The 'Additional Child Object Settings' section is expanded, and the 'Picking selects parent' option is highlighted with a red box and set to 'No'. A red arrow points from this box to the 3D model view, which shows the guide shoe assembly with a red circle around a specific part. Another red arrow points from the 3D model to the breadcrumb path in the top right panel, which includes the component name 'DP-SW GS02 0000 00'. A green callout box at the bottom center contains the text: 'If this option is set to no, you cannot directly select the parent BIM component in the view frames'.

Property	Value
Component state	Active
Assigned parent component	Shaft0.Car.Frame.GuideShoeTop0.
Child Object Name	DP-SW GS02 0000 00.
Assigned component group	Car frame
Assigned LDX-Type	LDXUserComp
Include in Save to BIM Library	Yes: Frozen
Include profile points in parent	No
Picking selects parent	No

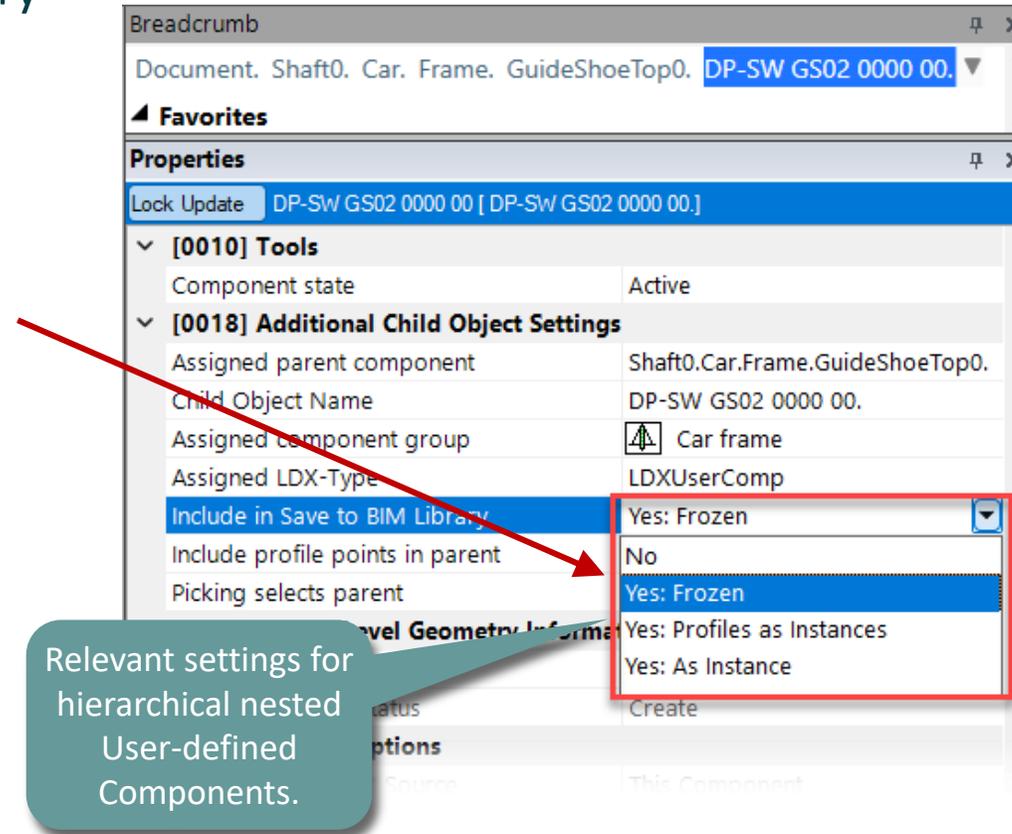
Plan
Scale: 1:20

Add, align and position your CAD Models

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

CAD Model setting: Include in Save to BIM Library

- ... in DigiPara LiftDesigner Properties Window
- This option must be for CAD files “Yes: Frozen” to include in saving to the database. (default setting)

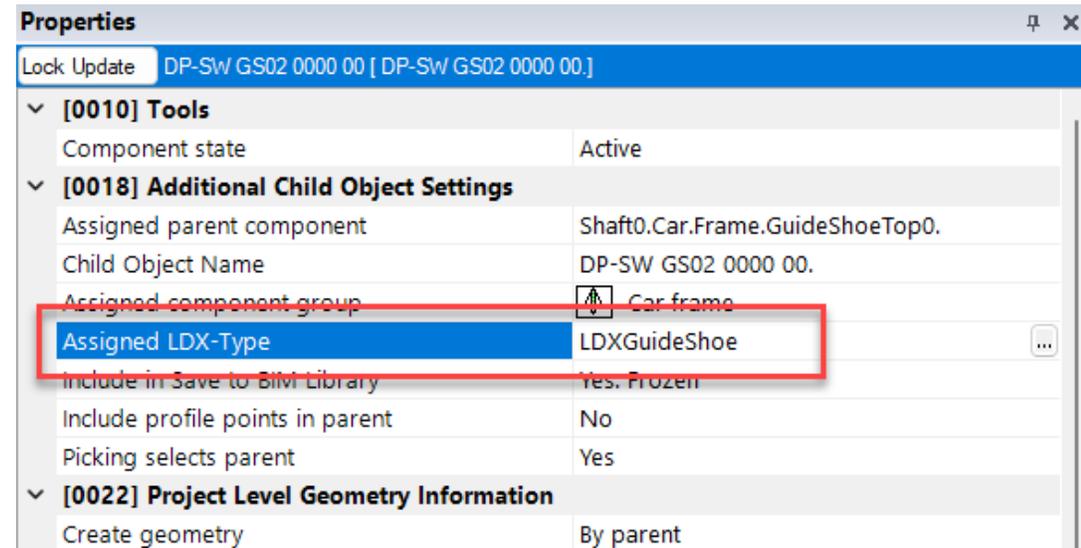


USER Component / CAD Model Settings

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

Assigned LDX-Type

- ... in DigiPara LiftDesigner Properties Window
 - The model behaves in a similar way to the assigned component type.
 - This concerns:
 - BIM properties
 - Visibility rules
 - Layer configurations
 - certain UI displays

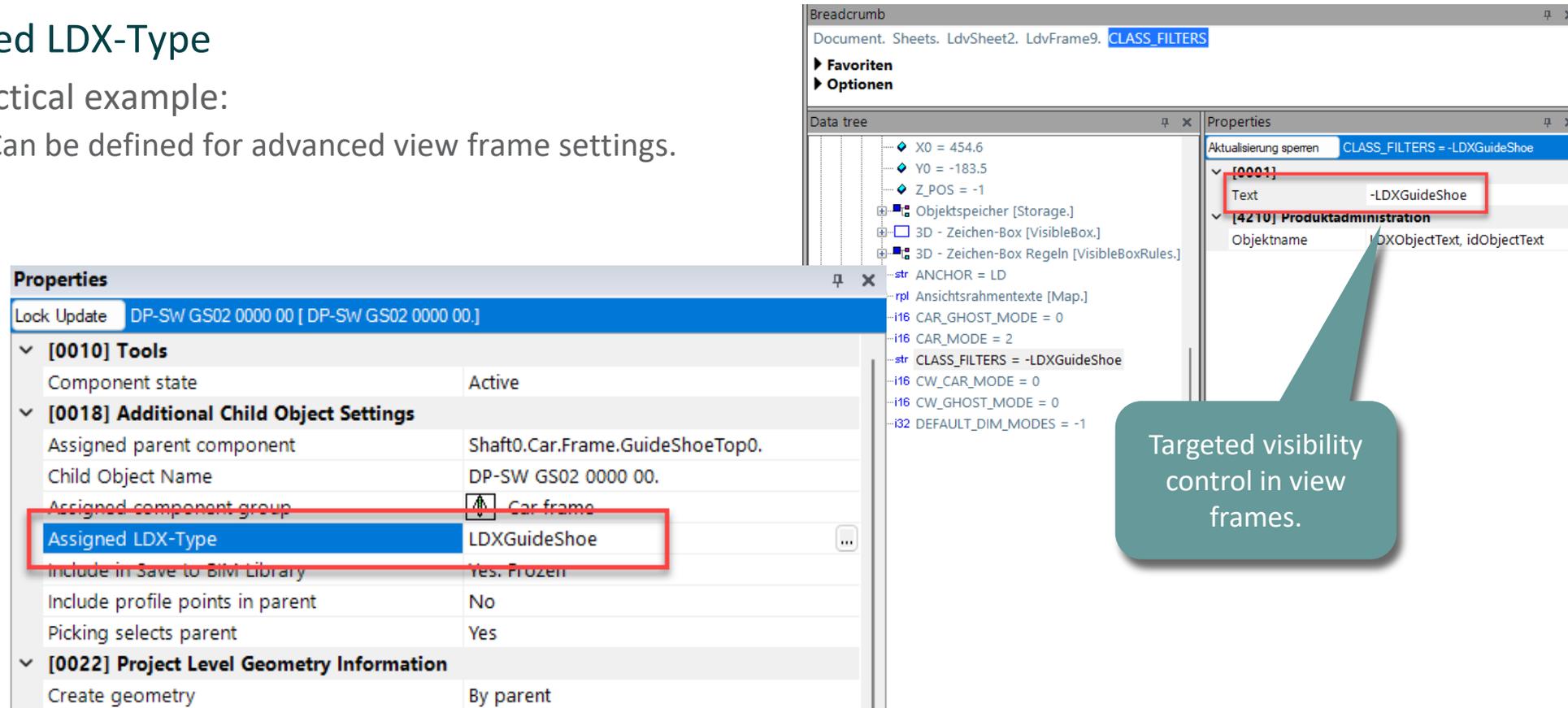


USER Component / CAD Model Settings

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

Assigned LDX-Type

- Practical example:
 - Can be defined for advanced view frame settings.



The image shows a CAD software interface with three main panels: Properties, Data tree, and another Properties panel. The left Properties panel shows the 'Assigned LDX-Type' set to 'LDXGuideShoe'. The Data tree shows a hierarchy of objects, with 'CLASS_FILTERS' highlighted. The right Properties panel shows the 'CLASS_FILTERS' property set to '-LDXGuideShoe'. A callout box points to the 'CLASS_FILTERS' property in the right panel with the text 'Targeted visibility control in view frames.'

Properties (Left)

Lock Update DP-SW GS02 0000 00 [DP-SW GS02 0000 00.]	
[0010] Tools	
Component state	Active
[0018] Additional Child Object Settings	
Assigned parent component	Shaft0.Car.Frame.GuideShoeTop0.
Child Object Name	DP-SW GS02 0000 00.
Assigned component group	Car frame
Assigned LDX-Type	LDXGuideShoe
Include in Save to BIM Library	Yes. Frozen
Include profile points in parent	No
Picking selects parent	Yes
[0022] Project Level Geometry Information	
Create geometry	By parent

Data tree

- X0 = 454.6
- Y0 = -183.5
- Z_POS = -1
- Objektspeicher [Storage.]
- 3D - Zeichen-Box [VisibleBox.]
- 3D - Zeichen-Box Regeln [VisibleBoxRules.]
- ANCHOR = LD
- Ansichtsrahmentexte [Map.]
- CAR_GHOST_MODE = 0
- CAR_MODE = 2
- CLASS_FILTERS = -LDXGuideShoe
- CW_CAR_MODE = 0
- CW_GHOST_MODE = 0
- DEFAULT_DIM_MODES = -1

Properties (Right)

Aktualisierung sperren CLASS_FILTERS = -LDXGuideShoe

- [0001] Text -LDXGuideShoe
- [4210] Produktadministration
- Objektname LDXObjectText, idObjectText

Targeted visibility control in view frames.

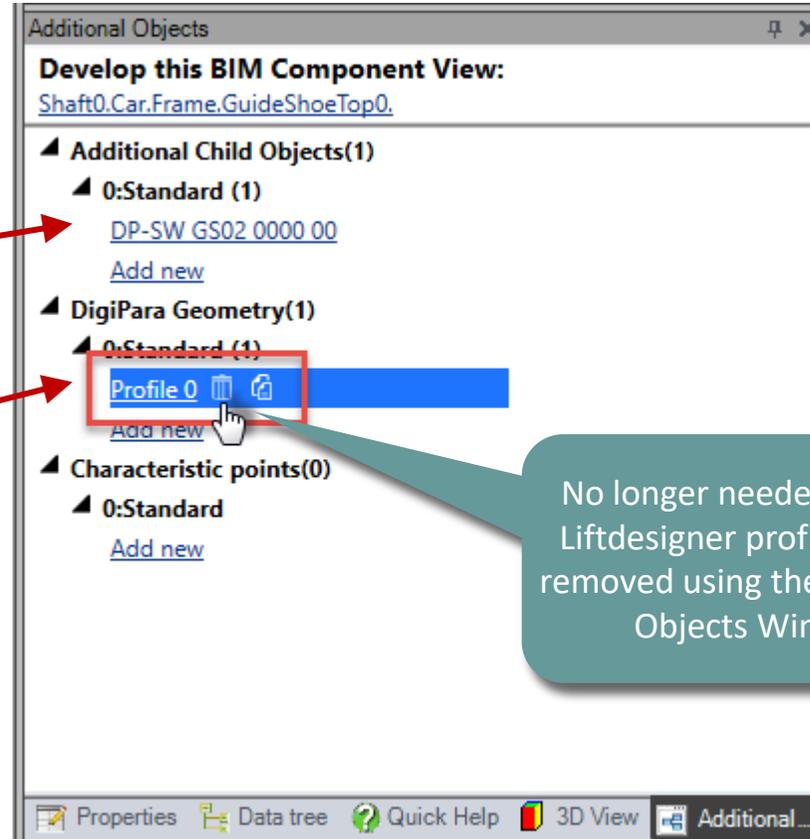
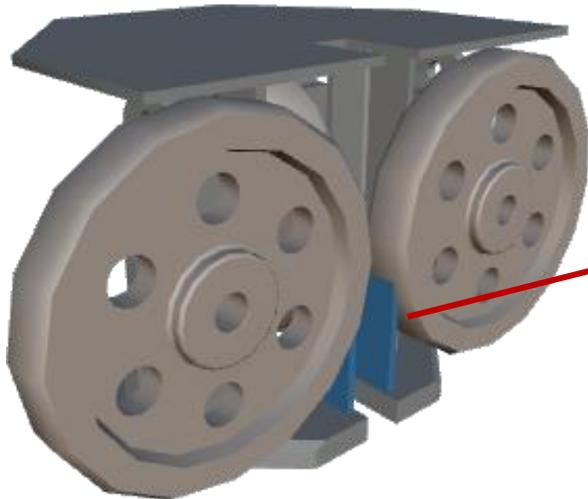
✓ Delete unneeded profiles

Delete unneeded DigiPara Liftdesigner profiles

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

Delete unneeded DigiPara Liftdesigner Profiles

- ... via the Additional Objects window



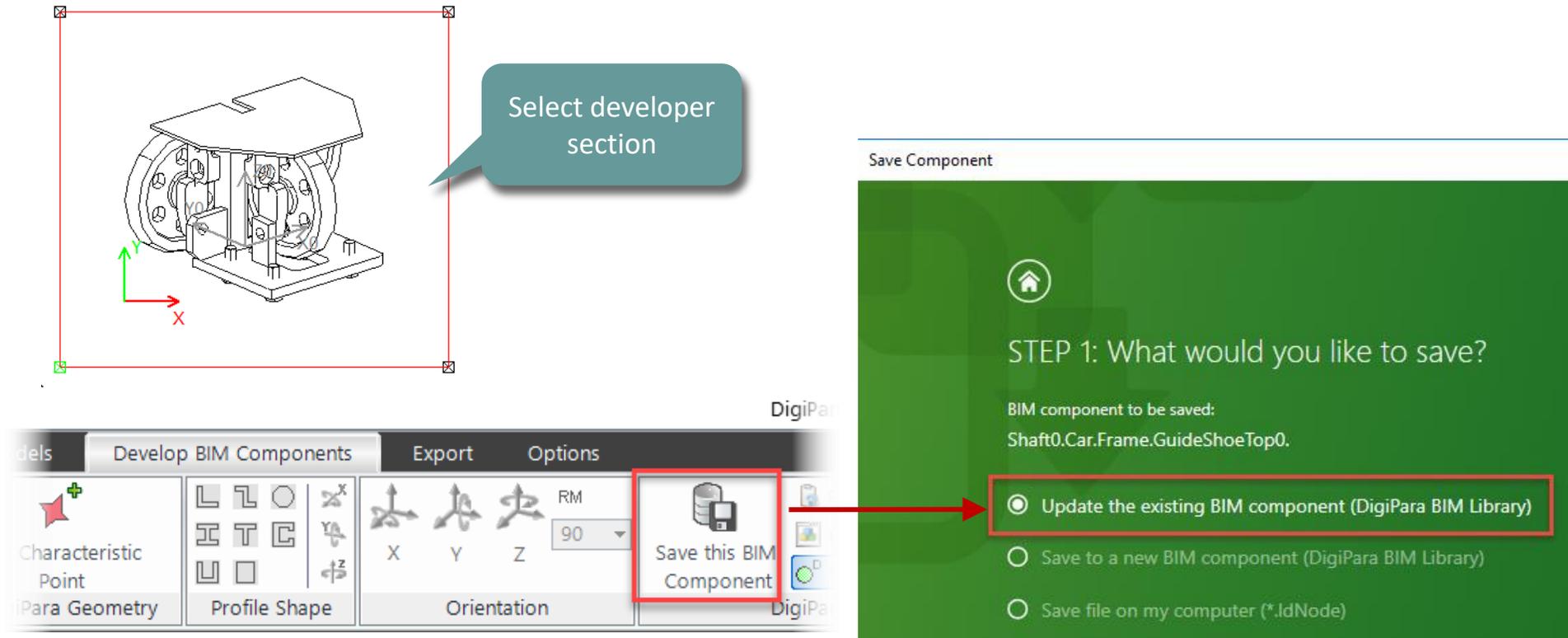
No longer needed DigiPara Liftdesigner profiles can be removed using the Additional Objects Window.

✓ Save the BIM Component back into
the BIM Library

Save the BIM Component back into the Library

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

Save the finished defined BIM Component



Select developer section

Save Component

STEP 1: What would you like to save?

BIM component to be saved:
Shaft0.Car.Frame.GuideShoeTop0.

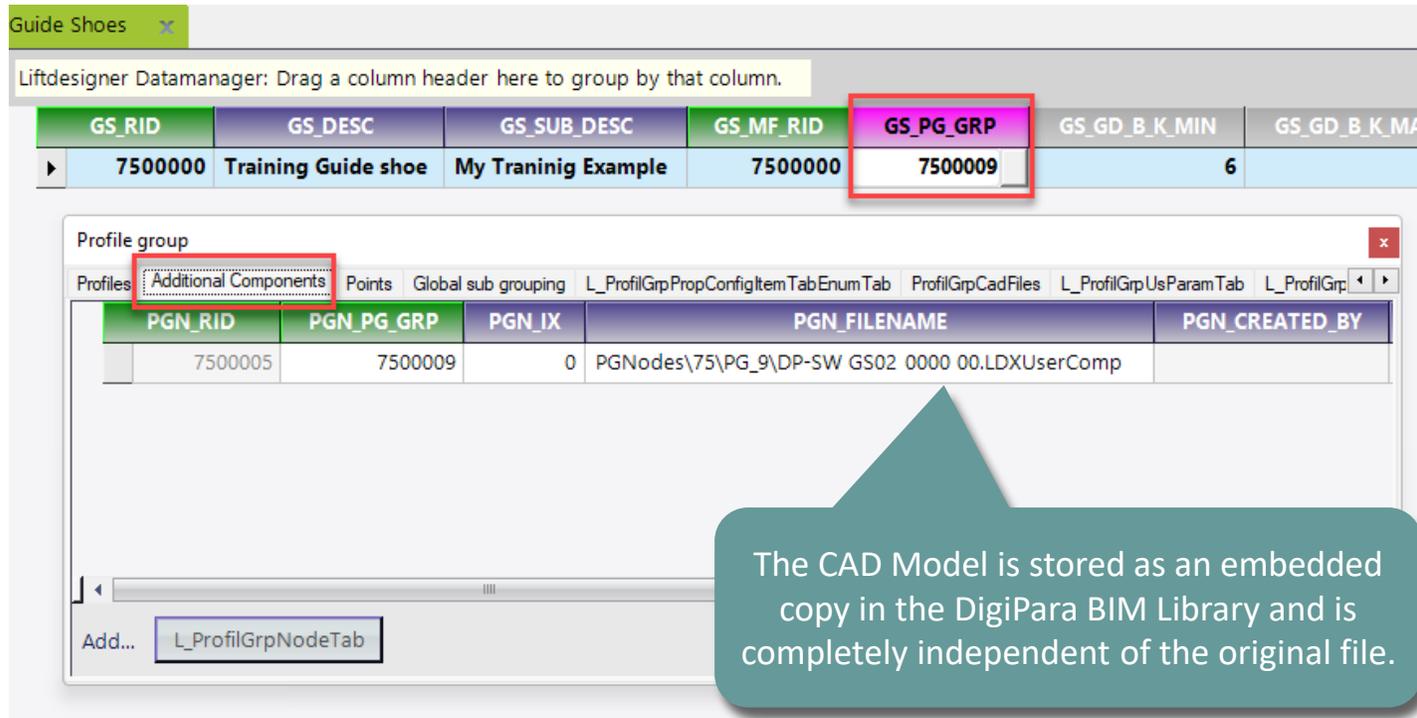
- Update the existing BIM component (DigiPara BIM Library)
- Save to a new BIM component (DigiPara BIM Library)
- Save file on my computer (*.IdNode)

Save the BIM Component back into the Library

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

Additional Components

- ... in DigiPara Liftdesigner Datamanager



The screenshot shows the 'Guide Shoes' window in the DigiPara Liftdesigner Datamanager. The main table has columns: GS_RID, GS_DESC, GS_SUB_DESC, GS_MF_RID, GS_PG_GRP, GS_GD_B_K_MIN, and GS_GD_B_K_MA. A row is highlighted with values: 7500000, Training Guide shoe, My Trainig Example, 7500000, 7500009, and 6. The 'GS_PG_GRP' cell is highlighted in pink. Below this is a 'Profile group' dialog box with a 'Profiles' dropdown set to 'Additional Components'. The dialog box contains a table with columns: PGN_RID, PGN_PG_GRP, PGN_IX, PGN_FILENAME, and PGN_CREATED_BY. A row is shown with values: 7500005, 7500009, 0, PGNodes\75\PG_9\DP-SW GS02 0000 00.LDXUserComp, and an empty cell. A callout bubble points to the 'PGN_FILENAME' cell with the text: 'The CAD Model is stored as an embedded copy in the DigiPara BIM Library and is completely independent of the original file.'

GS_RID	GS_DESC	GS_SUB_DESC	GS_MF_RID	GS_PG_GRP	GS_GD_B_K_MIN	GS_GD_B_K_MA
7500000	Training Guide shoe	My Trainig Example	7500000	7500009	6	

PGN_RID	PGN_PG_GRP	PGN_IX	PGN_FILENAME	PGN_CREATED_BY
7500005	7500009	0	PGNodes\75\PG_9\DP-SW GS02 0000 00.LDXUserComp	

 digipara® liftdesigner

Let's have a break!



PL3.3

Dynamic BIM
Component: Car Frame

Typical Processes



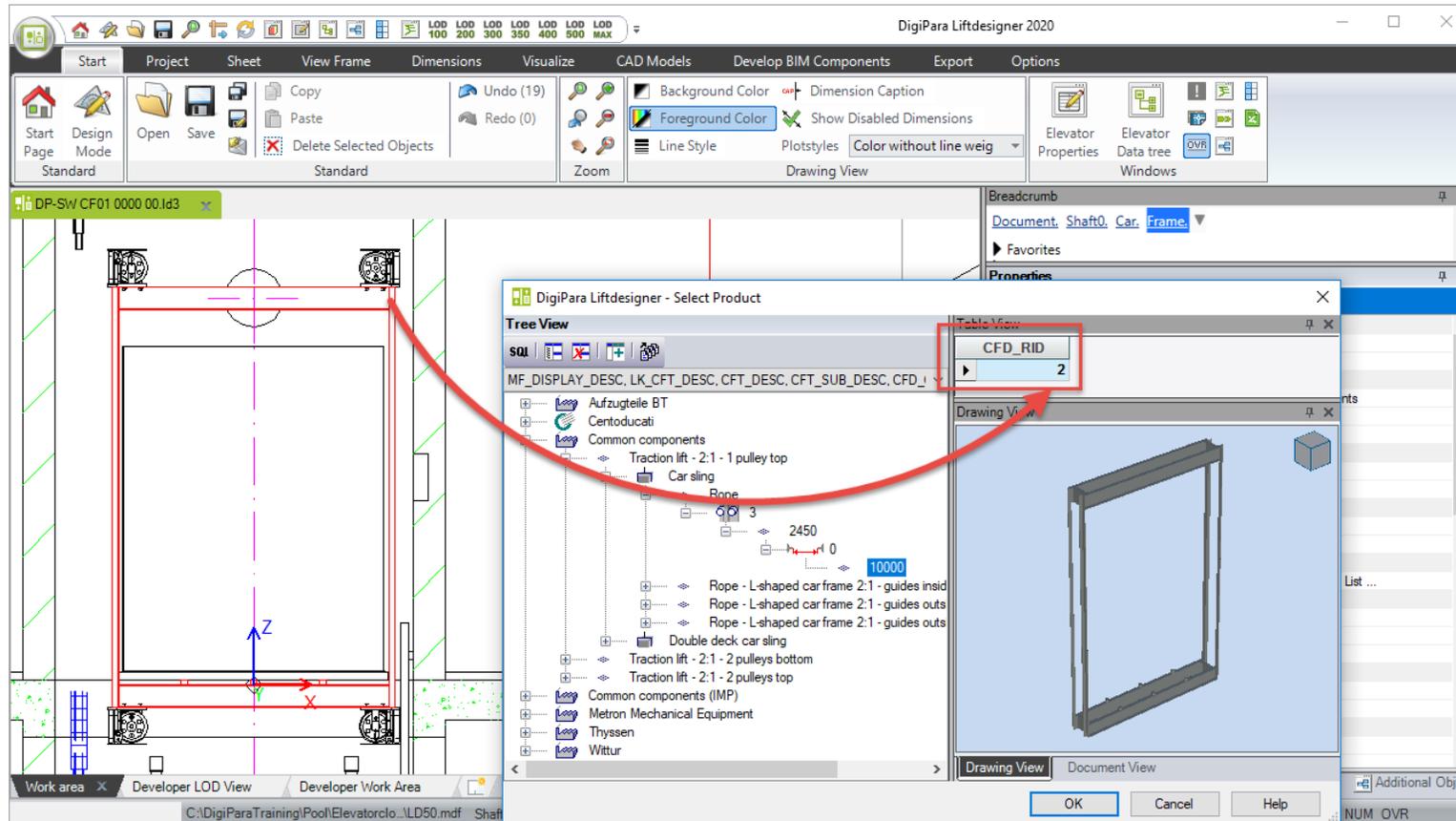
DYNAMIC
BIM
COMPONENT

✓ Copy a similar BIM Component

Copy a similar BIM Component

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

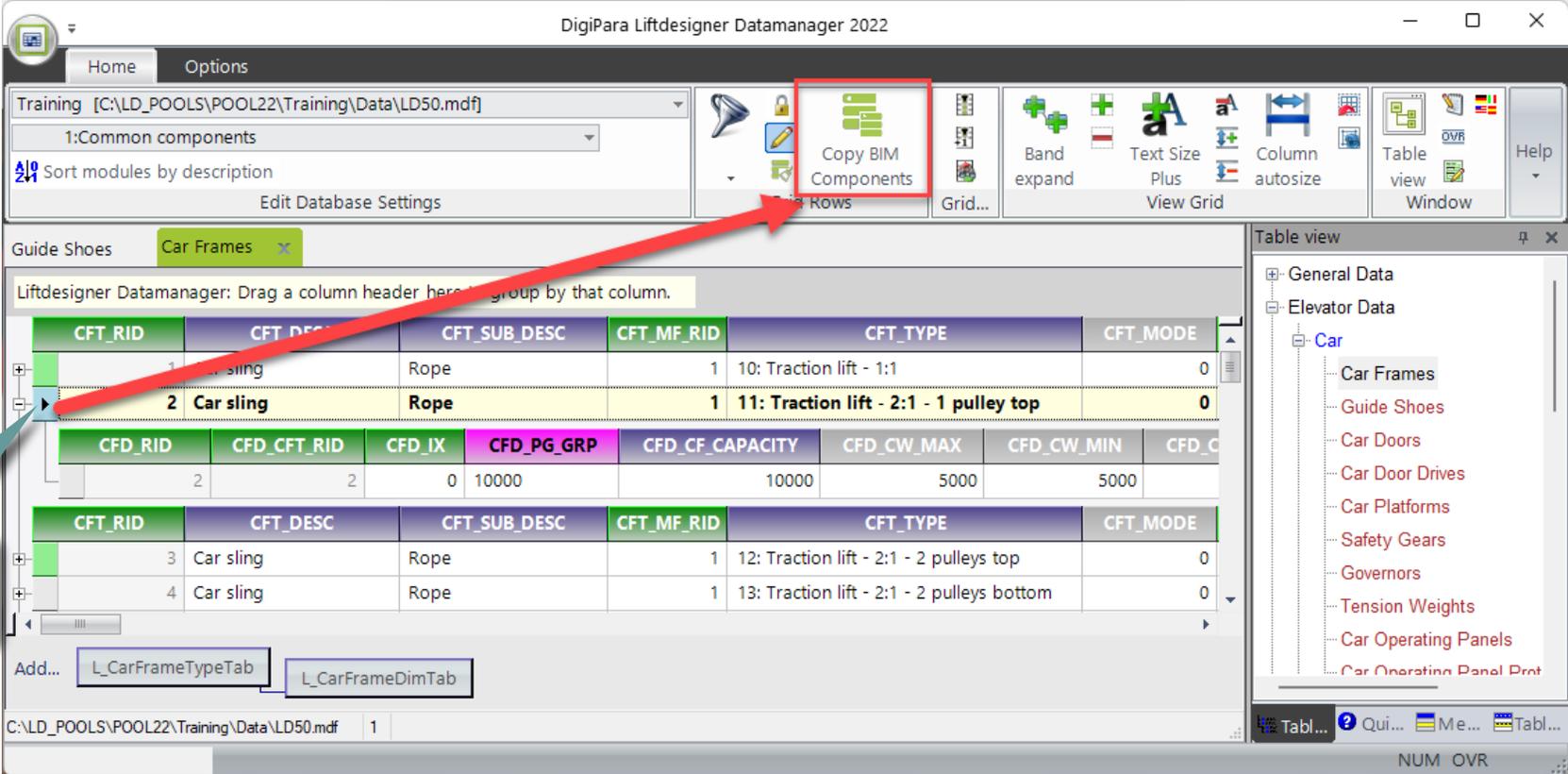
RID and Manufacturer are important to find the BIM Component in the DigiPara BIM Library.



Copy a similar BIM Component

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

- ... in DigiPara LiftDesigner Datamanager



The screenshot shows the DigiPara LiftDesigner Datamanager 2022 interface. The main window displays a table of BIM components. A red box highlights the 'Copy BIM Components' button in the top toolbar, with a red arrow pointing to it. A blue callout box with a white arrow points to the second row of the table, which is highlighted in yellow. The table has the following data:

CFT_RID	CFT_DESC	CFT_SUB_DESC	CFT_MF_RID	CFT_TYPE	CFT_MODE		
1	Car sling	Rope	1	10: Traction lift - 1:1	0		
2	Car sling	Rope	1	11: Traction lift - 2:1 - 1 pulley top	0		
CFD_RID	CFD_CFT_RID	CFD_IX	CFD_PG_GRP	CFD_CF_CAPACITY	CFD_CW_MAX	CFD_CW_MIN	CFD_C
2	2	0	10000	10000	5000	5000	
CFT_RID	CFT_DESC	CFT_SUB_DESC	CFT_MF_RID	CFT_TYPE	CFT_MODE		
3	Car sling	Rope	1	12: Traction lift - 2:1 - 2 pulleys top	0		
4	Car sling	Rope	1	13: Traction lift - 2:1 - 2 pulleys bottom	0		

At the bottom of the table, there are two input fields: 'L_CarFrameTypeTab' and 'L_CarFrameDimTab'. The status bar at the bottom shows 'C:\LD_POOLS\POOL22\Training\Data\LD50.mdf' and '1'. The right sidebar shows a tree view with 'Car' expanded, listing various components like 'Car Frames', 'Guide Shoes', 'Car Doors', etc.

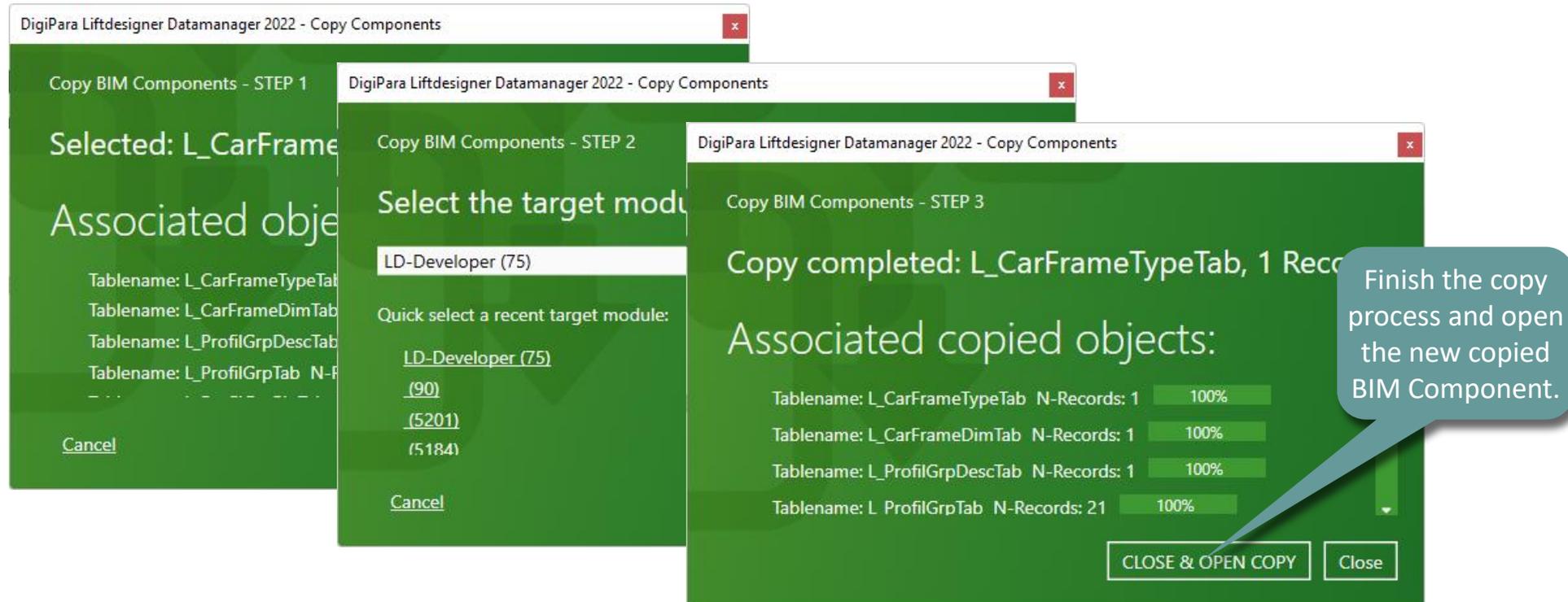
Select a similar BIM Component

Copy a similar BIM Component

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

The BIM Component is copied with all parameter and values to a new manufacturer / DigiPara BIM Library.

- The steps 1 until 3 guide you through the copy process.



✓ Edit the Meta Data

Edit the Meta Data

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

Description

- ... in DigiPara Liftdesigner Datamanager
 - Add a new specific description for the new copied BIM Component.

Liftdesigner Datamanager: Drag a column header here to group by that column.

CFT_RID	CFT_DESC	CFT_SUB_DESC	CFT_MF_RID	CFT_TYPE
7500001	Traninig Car Sling	My Training example	7500000	11: Traction lift - 2:1 - 1 pulley to

CFD_RID	CFD_CFT_RID	CFD_IX	CFD_PG_GRP	CFD_CF_CAPACITY	CFD_CW_MAX
7500001	7500001	0	7500006	10000	5000

LD-Developer

- Traction lift - 2:1 - 1 pulley top
 - Training car sling
 - My Trainingexample
 - 3
 - 2450
 - 0
 - 10000

ab L_CarFrameDimTab

Edit Mode! Open a new table to save the new content in the database.

Result in the DigiPara Liftdesigner BIM Library

Edit the Meta Data

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

Parameters

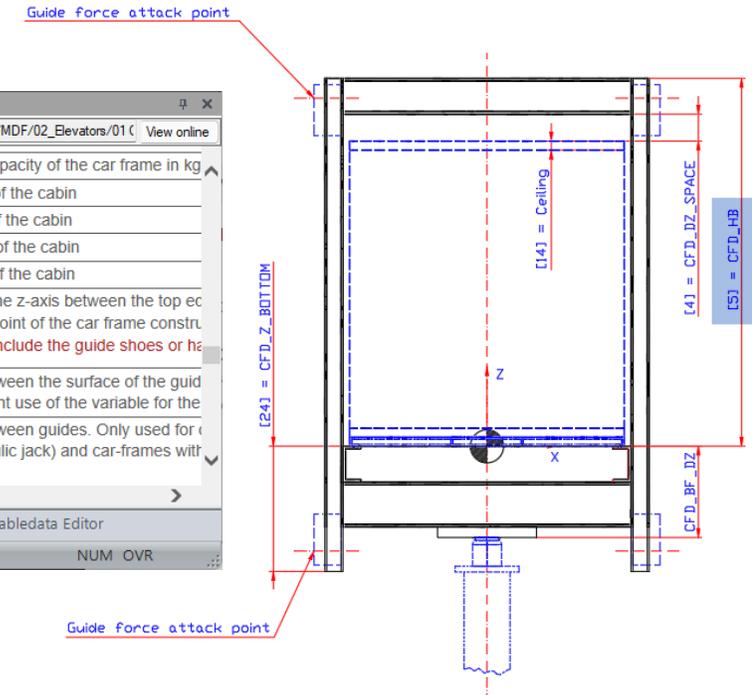
- Quick help & developer dwg file helps you understand what parameter definitions mean

The screenshot shows the Liftdesigner Datamanager interface. The main table displays the following data:

CFT_RID	CFT_DESC	CFT_SUB_DESC	CFT_MF_RID	CFT_TYPE	CFT...	
7500001	Training Car Sling	My Training example	7500000	11: Traction lift - 2:1 - 1 pulley top		
CFD_RID	CFD_CFT_RID	CFD_JX	CFD_PG_GRP	CFD_CF_CAPACITY	CFD_CW_MAX	CFD_CW_MIN
7500001	7500001	0	7500006	10000	5000	5000

The Quick Help window is open, displaying the following information:

Parameter	Description
CFD_CF_CAPACITY	The maximum capacity of the car frame in kg
CFD_CW_MAX	Maximum width of the cabin
CFD_CW_MIN	Minimum width of the cabin
CFD_CD_MAX	Maximum depth of the cabin
CFD_CD_MIN	Minimum depth of the cabin
CFD_HB	The distance in the z-axis between the top edge and the highest point of the car frame construction. ⚠ Don't include the guide shoes or ho...
CFD_CAR_2_GUIDES	The distance between the surface of the guide picture for different use of the variable for the...
CFD_DBG	The distance between guides. Only used for (System, 1 hydraulic jack) and car-frames with hydraulic jack).



Developer .dwg file

Edit the Meta Data

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

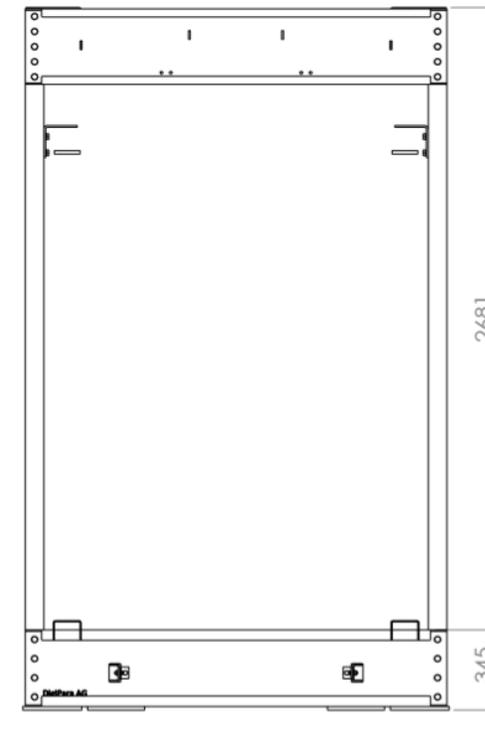
Height

- ... in DigiPara Liftdesigner Datamanager

Car Frames

Liftdesigner Datamanager: Drag a column header here to group by that column.

CFT_RID	CFT_DESC	CFT_SUB_DESC	MFSUP_RID	CFT_CREATED_BY	CFT_CREATED_DATE	CFT_MODIFIED_BY	CFT_MODIFIED_DATE	CFT_USER_S0	CFT		
7500001	Traninig Car Sling	My Training example	00: LD-Dev...	Akalin	04/05/2022 10:18 AM	Akalin	04/21/2022 01:39 PM				
CFD_RID	CFD_CFT_RID	CFD_IX	CFD_PG_GRP	CFD_CD_MIN	CFD_HB	CFD_CAR_2_GUIDES	CFD_DBG	CFD_Z_BOTTOM	CFD_GUIDE_TYPE	CFD_BF_DZ	CF
7500001	7500001	0	7500006	5000	2681	25	0	345	3: Roller and Glid...	345	



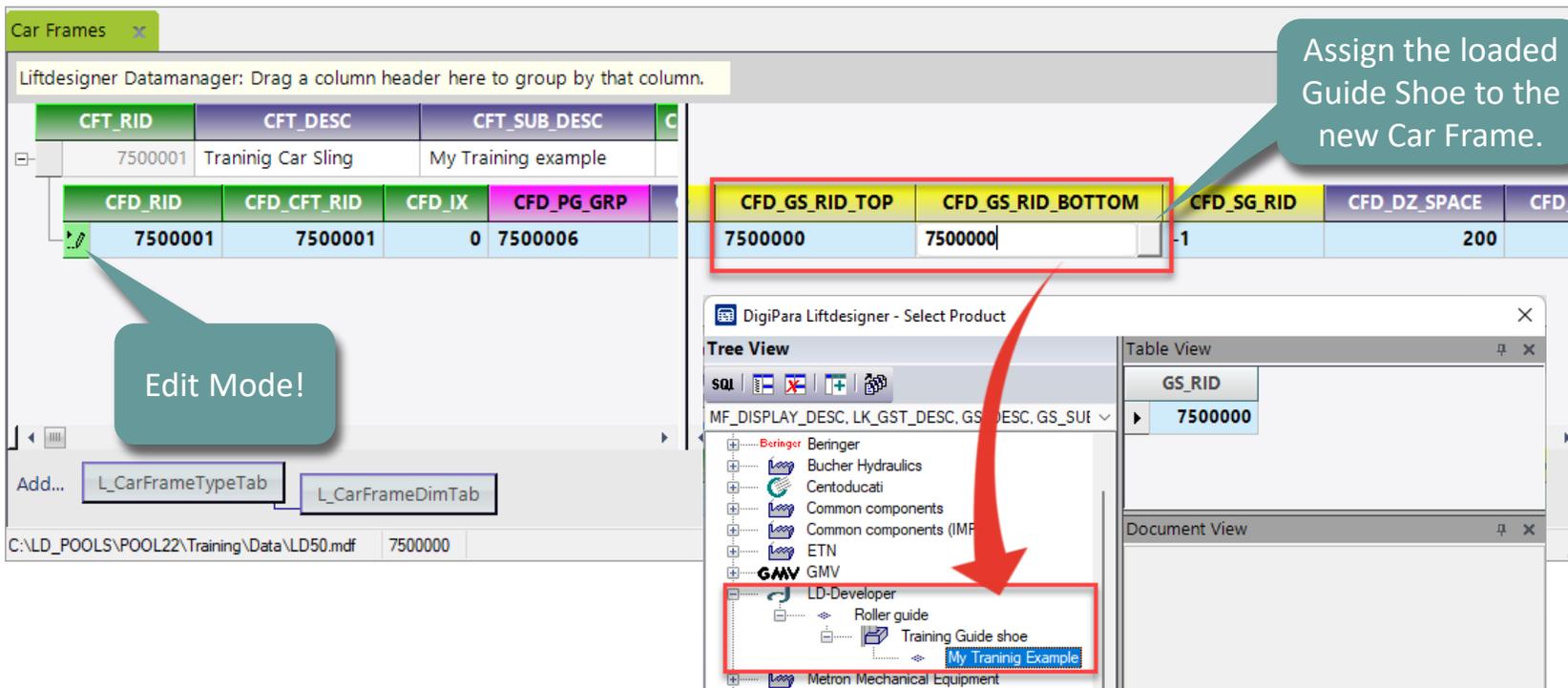
✓ Determine related BIM Components

Determine related BIM Components

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

- ... in DigiPara Liftdesigner Datamanager

CFD_GS_RID_TOP	RID number of the guide shoe for the top of the car-frame
CFD_GS_RID_BOTTOM	RID number of the guide shoe for the bottom of the car frame



Car Frames

Liftdesigner Datamanager: Drag a column header here to group by that column.

CFT_RID	CFT_DESC	CFT_SUB_DESC	CFD_RID	CFD_CFT_RID	CFD_IX	CFD_PG_GRP	CFD_GS_RID_TOP	CFD_GS_RID_BOTTOM	CFD_SG_RID	CFD_DZ_SPACE	CFD_E
7500001	Traning Car Sling	My Training example	7500001	7500001	0	7500006	7500000	7500000	-1	200	

Edit Mode!

Add... L_CarFrameTypeTab L_CarFrameDimTab

C:\LD_POOLS\POOL22\Training\Data\LD50.mdf 7500000

DigiPara Liftdesigner - Select Product

Tree View

MF_DISPLAY_DESC, LK_GST_DESC, GS_DISPLAY_DESC, GS_SUIT

- Beringer Beringer
- Bucher Hydraulics
- Centoducati
- Common components
- Common components (IMF)
- ETN
- GMV
- LD-Developer
 - Roller guide
 - Training Guide shoe
 - My Training Example
- Metron Mechanical Equipment

Table View

GS_RID
7500000

Document View

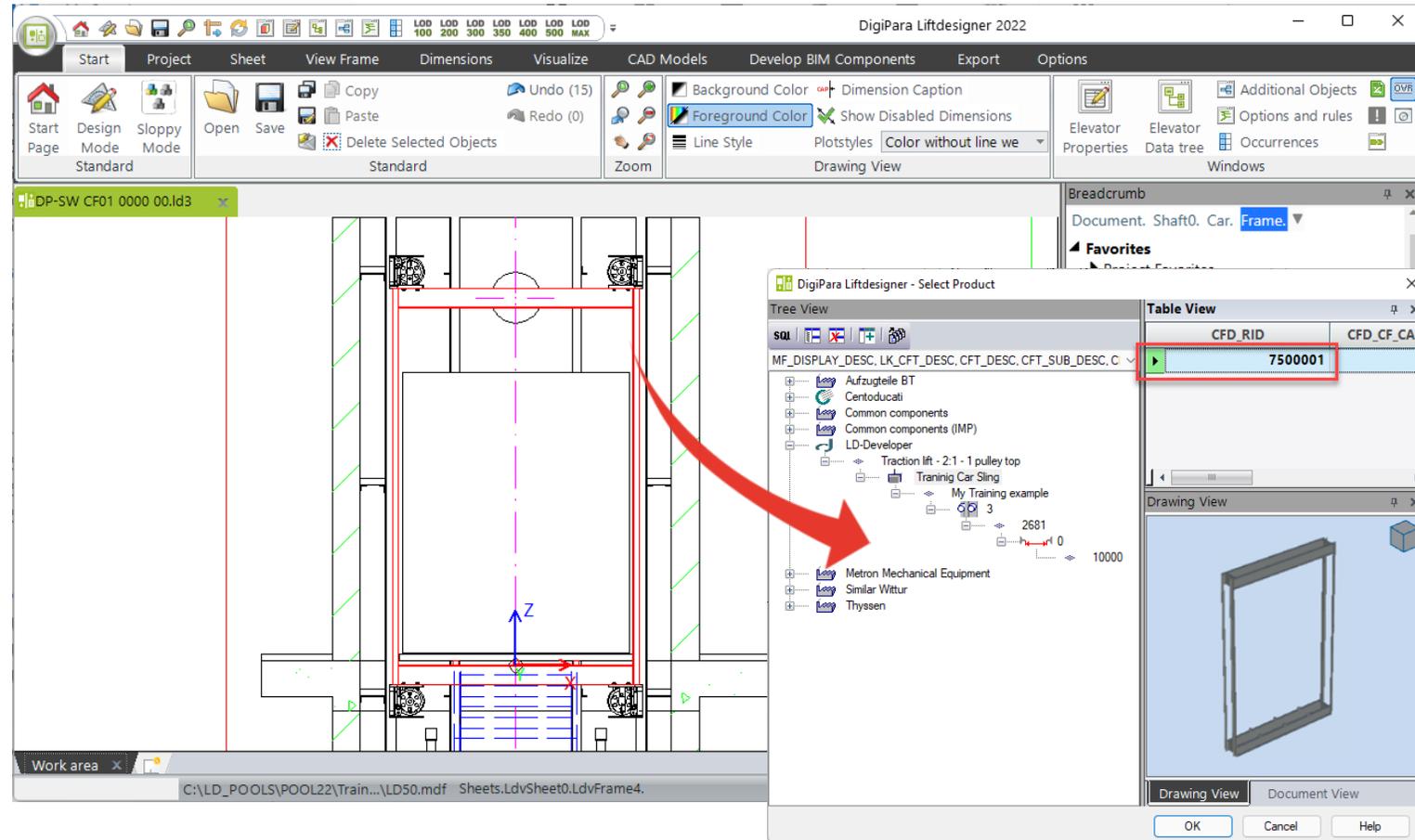
Assign the loaded Guide Shoe to the new Car Frame.

✓ Load your edited BIM Component

Load your edited BIM Component

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

- ... in DigiPara Liftdesigner

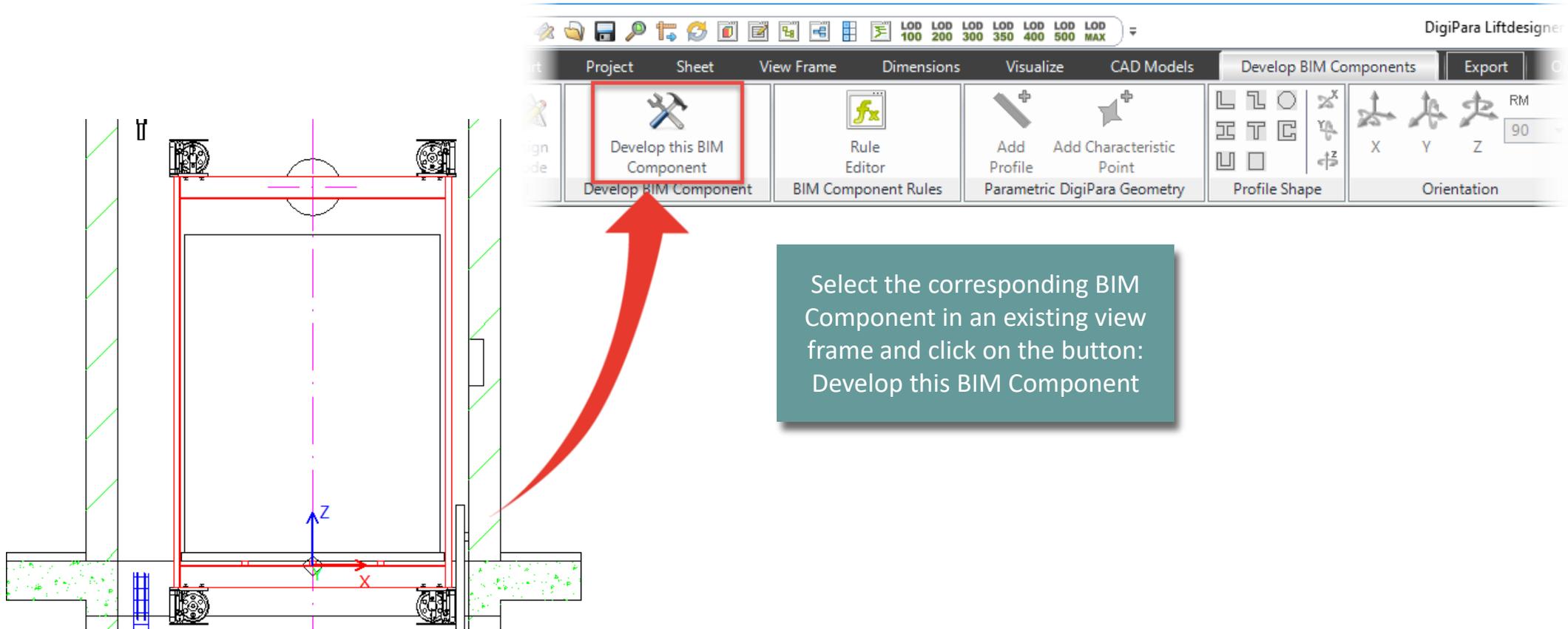


✓ Load the Developer Work Area

Load the Developer Work Area

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

- ... in DigiPara LiftDesigner via the BIM Component



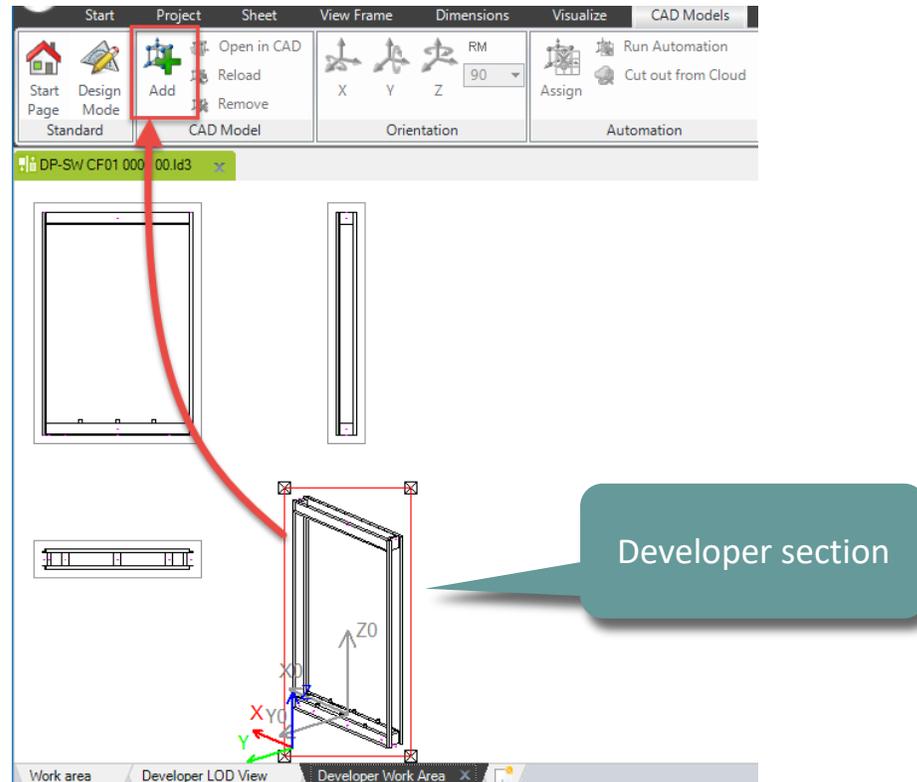
✓ Add, align and position your Models

Add, align and position your CAD Models

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

Add multiple CAD Models to one BIM Component

- ...using a Developer section view in the DigiPara Liftdesigner Developer Work Area

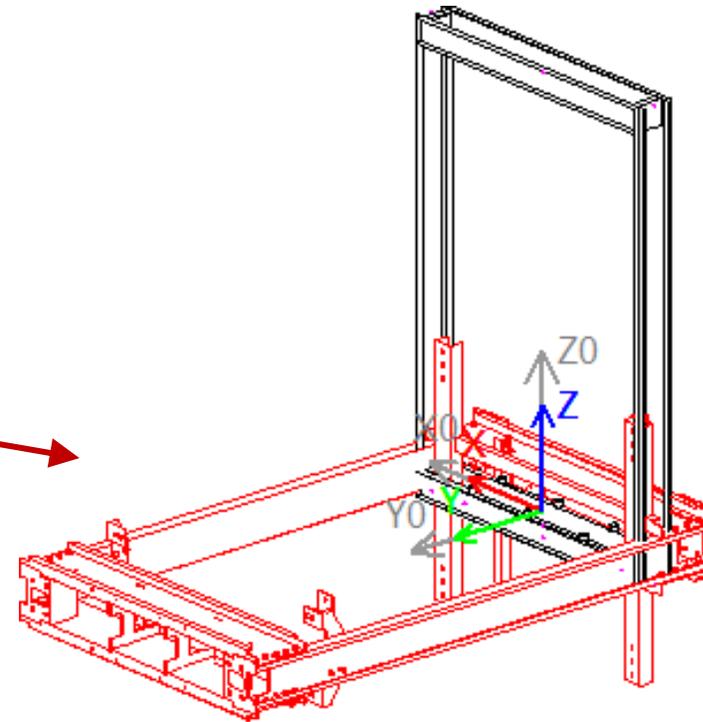
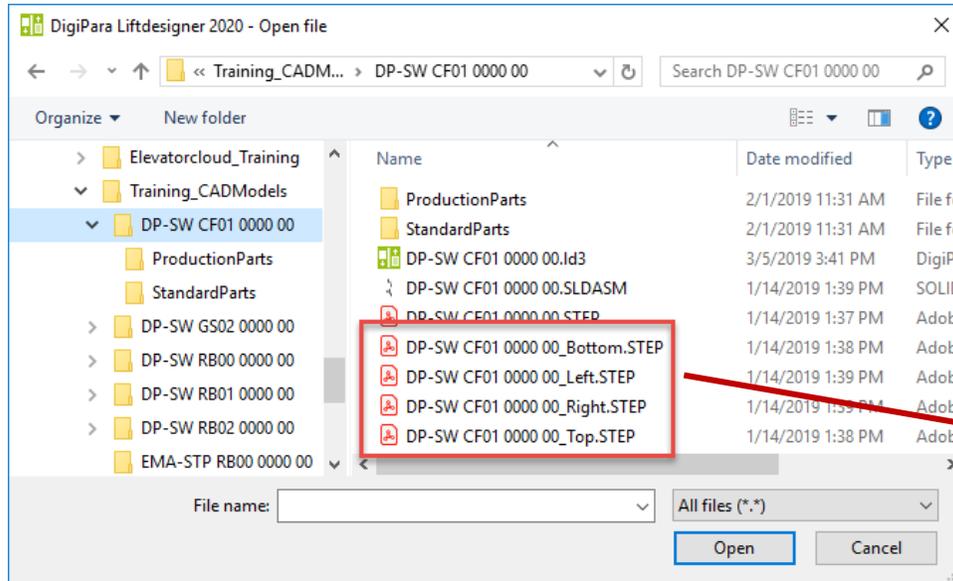


Add, align and position your CAD Models

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

Add multiple CAD Models to one BIM Component

- The CAD Models are inserted at the base point of the parent component.

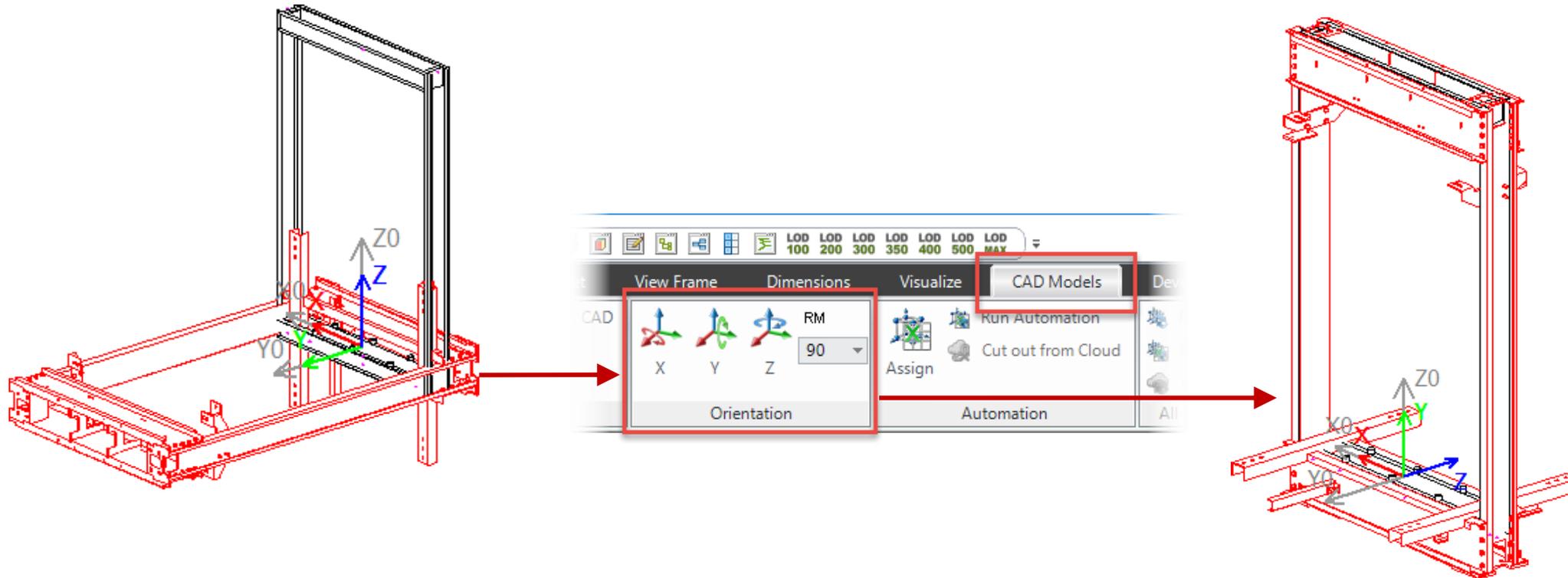


Add, align and position your CAD Models

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

Align your CAD Model

- ... using X, Y and Z coordinates under the CAD Models tab

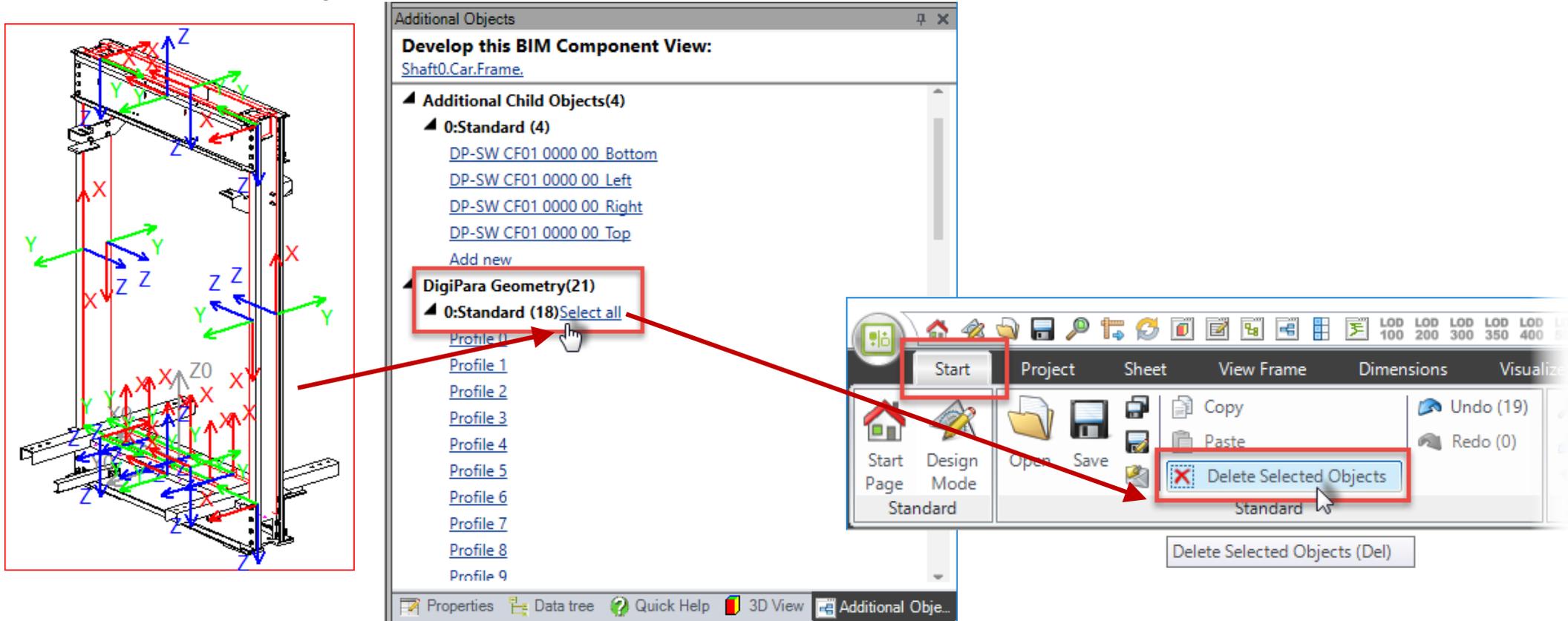


✓ Delete unneeded profiles

Delete unneeded DigiPara Liftdesigner profiles

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

- ... via the Additional Objects window



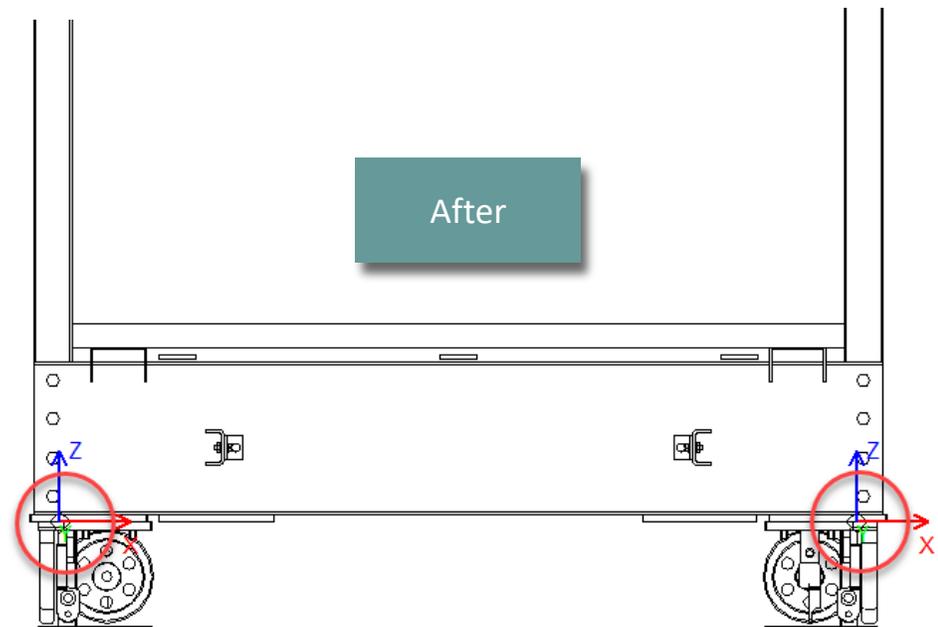
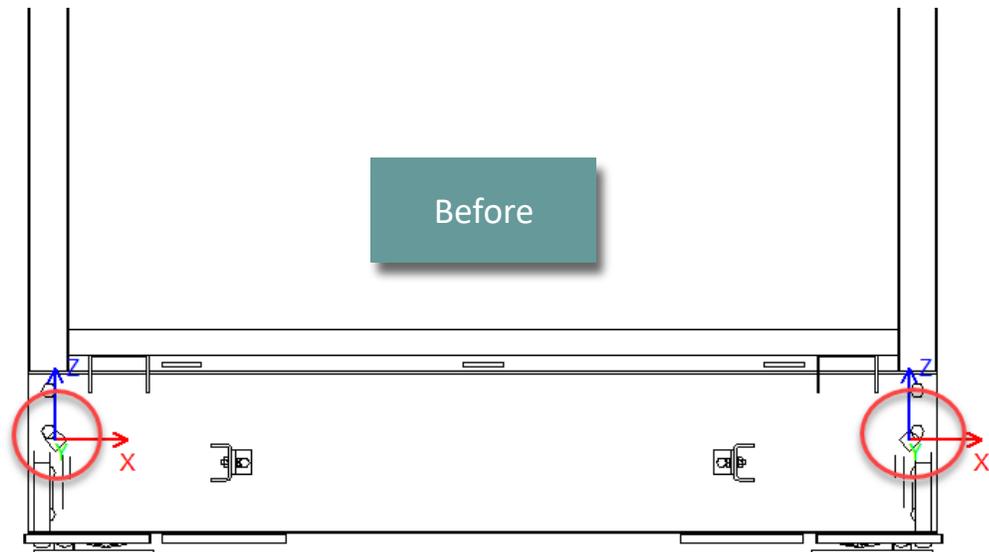
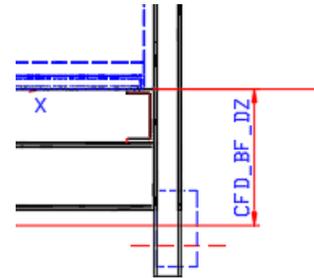
✓ Set the positioning points

Set the positioning points

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

Guide shoes

- ... in DigiPara Liftdesigner

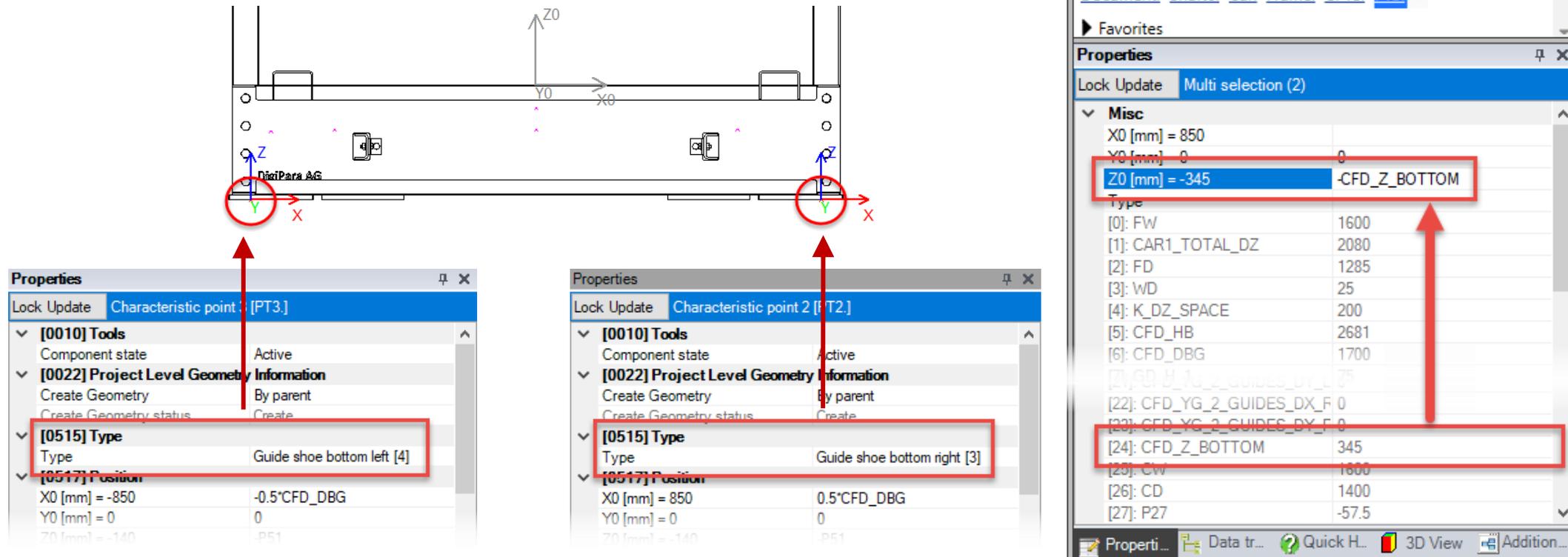


Set the positioning points

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

Guide shoes

- ... in DigiPara Liftdesigner



The image shows a 2D technical drawing of a car frame with two guide shoes. Red circles highlight the positioning points on the guide shoes. Below the drawing are three property windows:

- Properties - Characteristic point 1 [PT3.]**

[0010] Tools	
Component state	Active
[0022] Project Level Geometry Information	
Create Geometry	By parent
Create Geometry status	Create
[0515] Type	
Type	Guide shoe bottom left [4]
[0517] Position	
X0 [mm] = -850	-0.5*CFD_DBG
Y0 [mm] = 0	0
Z0 [mm] = -140	-P51
- Properties - Characteristic point 2 [PT2.]**

[0010] Tools	
Component state	Active
[0022] Project Level Geometry Information	
Create Geometry	By parent
Create Geometry status	Create
[0515] Type	
Type	Guide shoe bottom right [3]
[0517] Position	
X0 [mm] = 850	0.5*CFD_DBG
Y0 [mm] = 0	0
Z0 [mm] = -140	-P51
- Properties - Multi selection (2)**

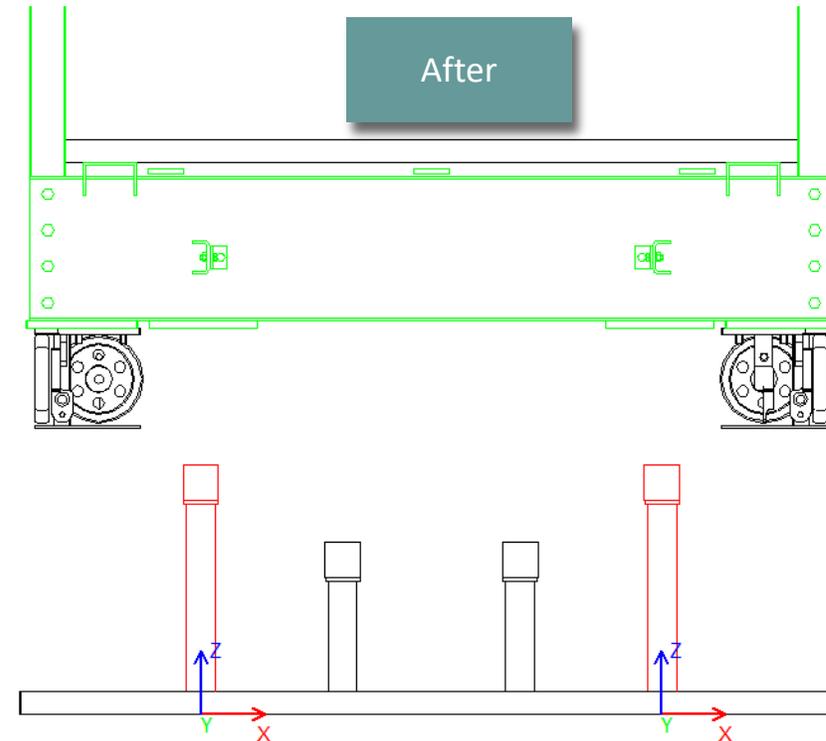
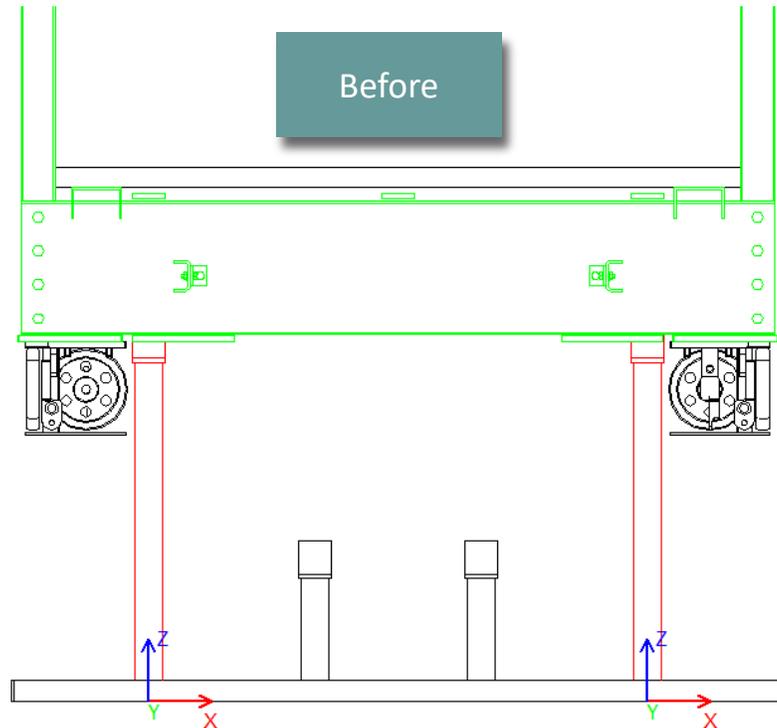
Misc	
X0 [mm] = 850	
Y0 [mm] = 0	
Z0 [mm] = -345	-CFD_Z_BOTTOM
Type	
[0]: FW	1600
[1]: CAR1_TOTAL_DZ	2080
[2]: FD	1285
[3]: WD	25
[4]: K_DZ_SPACE	200
[5]: CFD_HB	2681
[6]: CFD_DBG	1700
[7]: CFD_Z_BOTTOM	345
[8]: CFD_YG_2_GUIDES_DY_F_0	1800
[9]: CFD_YG_2_GUIDES_DX_F_0	1400
[10]: CFD_YG_2_GUIDES_BY_F_0	-57.5
[11]: CW	1800
[12]: CD	1400
[13]: P27	-57.5

Set the positioning points

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

Buffer

- ... in DigiPara Liftdesigner

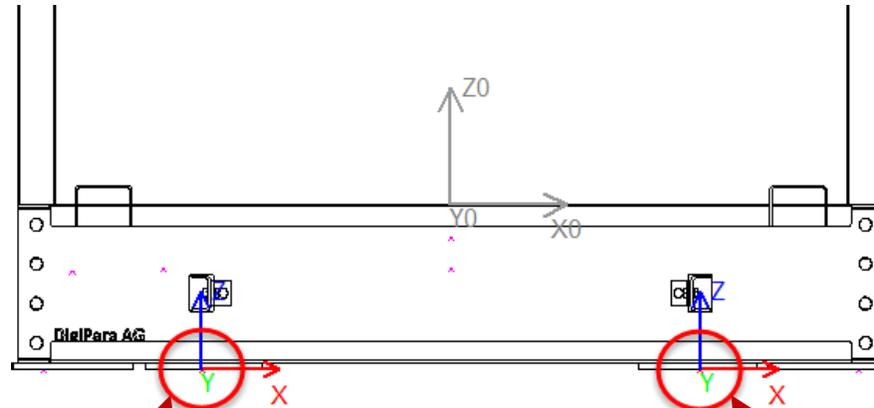


Set the positioning points

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

Buffer

- ... in DigiPara LiftDesigner



Properties

Lock Update Characteristic point 6 [PT6.]

▼ [0010] Tools	
Component state	Active
▼ [0022] Project Level Geometry Information	
Create Geometry	By parent
Create Geometry status	Create
▼ [0515] Type	
Type	Buffer impact pt 2(if 2 buffers) [12]
▼ [0517] Position	
X0 [mm] = -520	$-0.5 \cdot FW - WD - CF_CAR_2_GUIDES + 330$
Y0 [mm] = 0	0
Z0 [mm] = -345	$-CFD_Z_BOTTOM$
▼ [0519] Options	
This Object belongs to Product Op	-1
Dynamic Dimension	No

Properties

Lock Update Characteristic point 5 [PT5.]

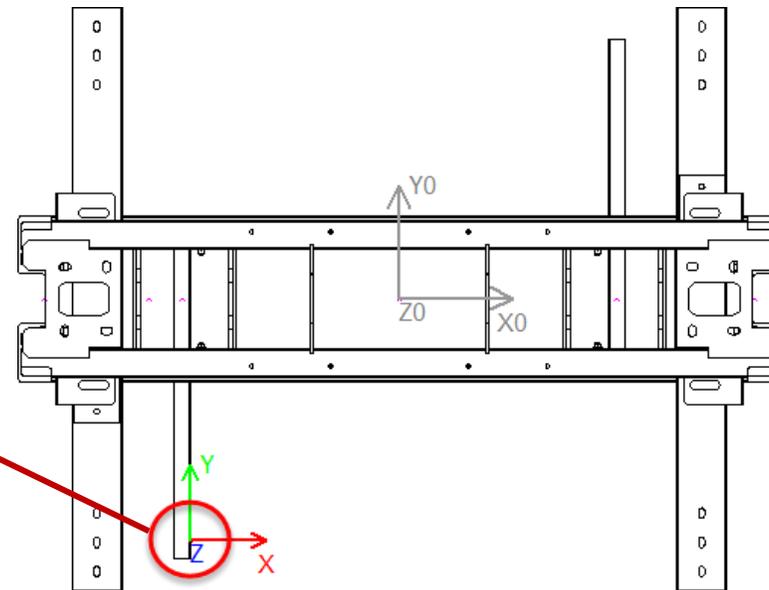
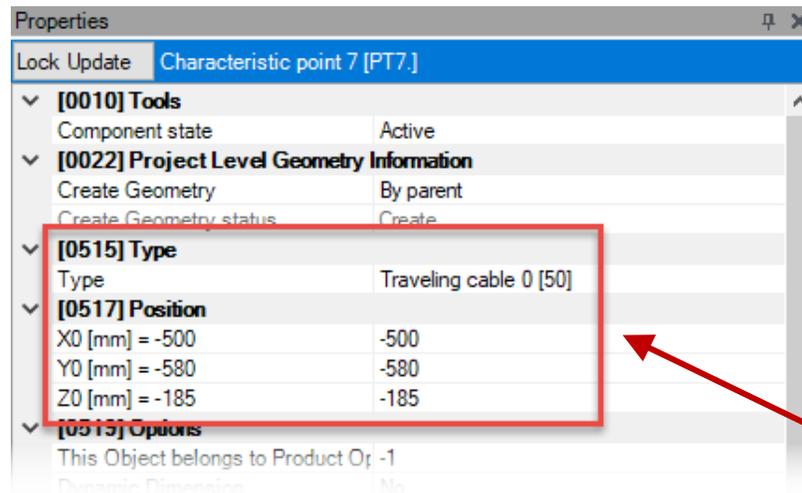
▼ [0010] Tools	
Component state	Active
▼ [0022] Project Level Geometry Information	
Create Geometry	By parent
Create Geometry status	Create
▼ [0515] Type	
Type	Buffer impact pt 1(if 2 buffers) [11]
▼ [0517] Position	
X0 [mm] = 520	$0.5 \cdot FW + WD + CF_CAR_2_GUIDES - 330$
Y0 [mm] = 0	0
Z0 [mm] = -345	$-CFD_Z_BOTTOM$
▼ [0519] Options	
This Object belongs to Product Op	-1
Dynamic Dimension	No

Set the positioning points

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

Traveling cable

- ... in DigiPara Liftdesigner

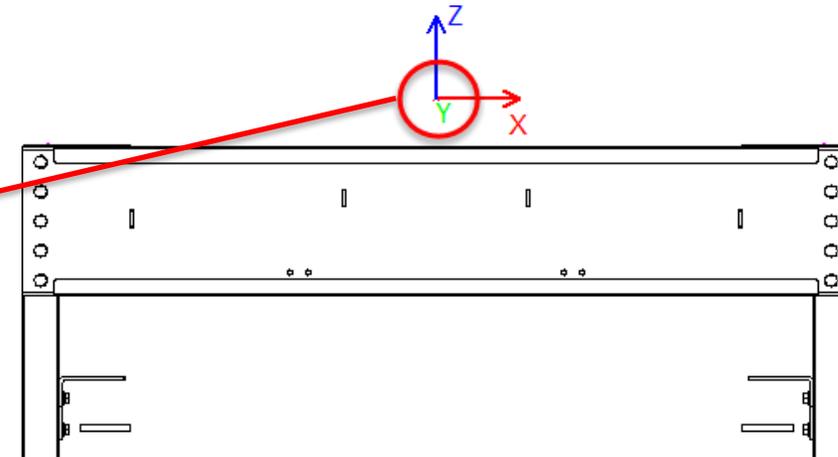
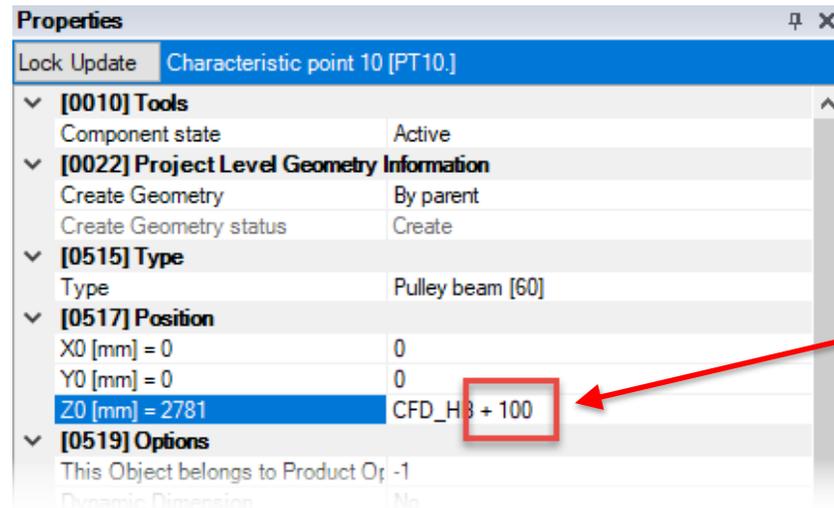


Set the positioning points

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

Pulley beam

- ... in DigiPara Liftdesigner

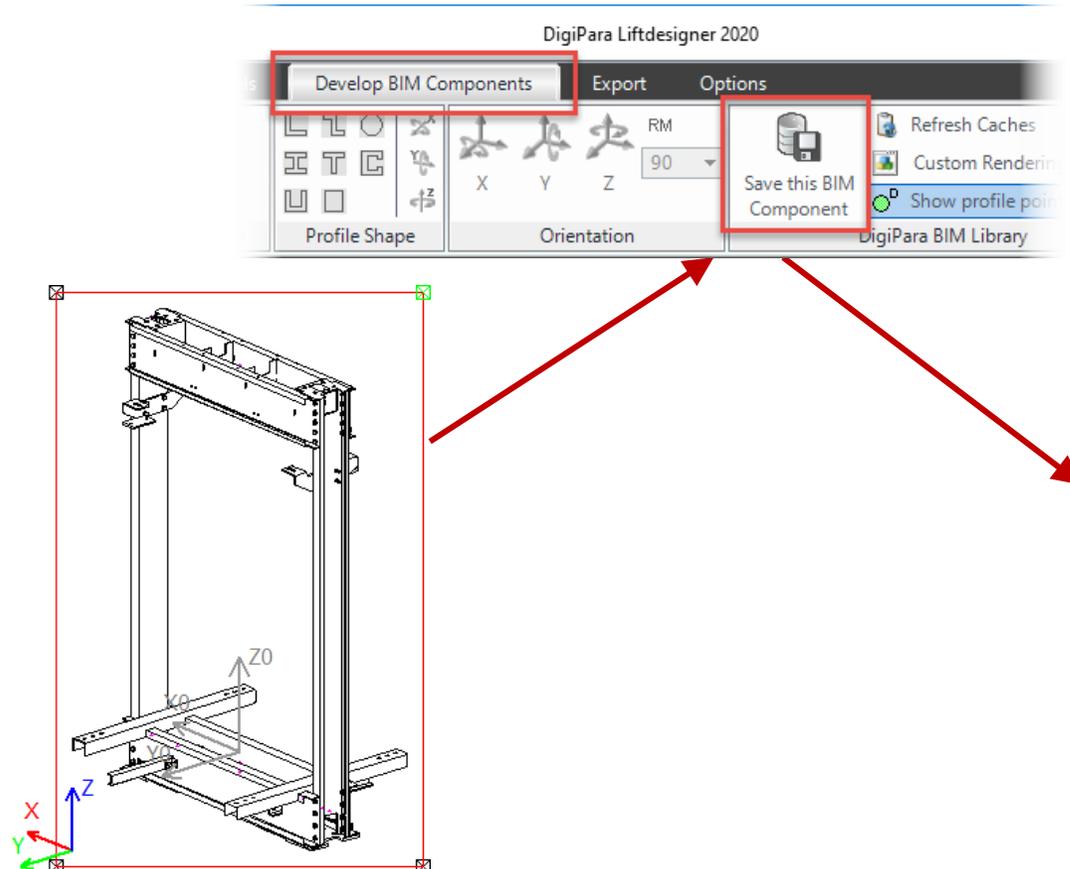


✓ Save the BIM Component back into
the BIM Library

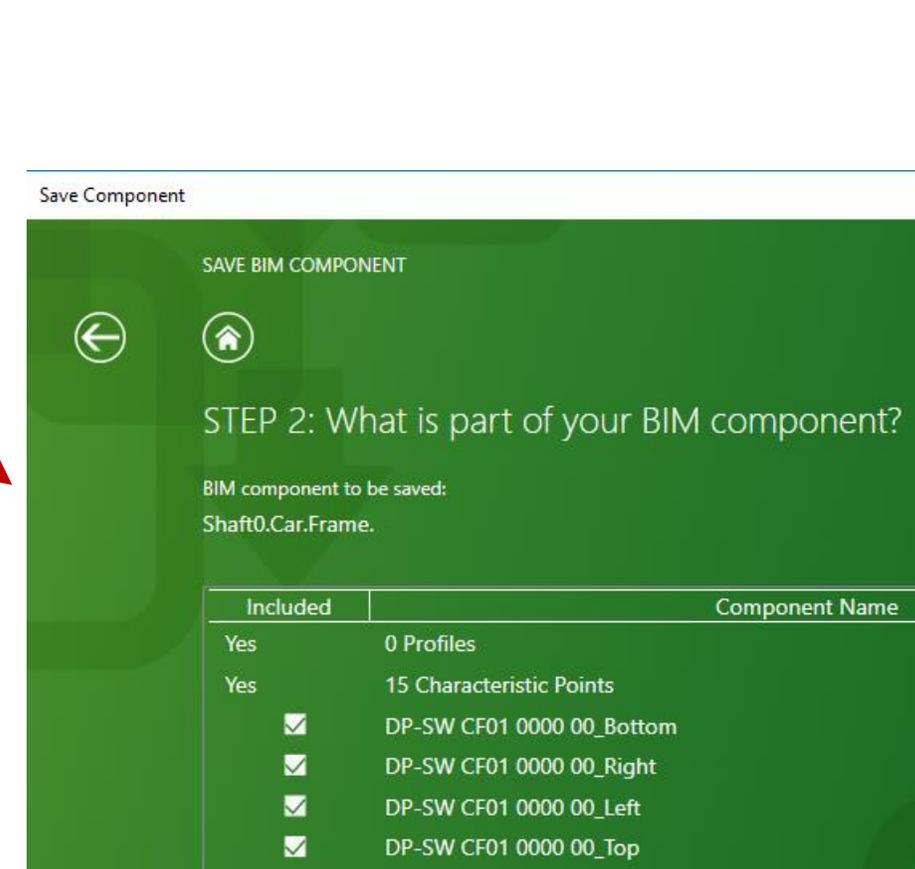
Save the BIM Component back into the Library

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

Save the finished defined BIM Component



The screenshot shows the software interface with the 'Develop BIM Components' menu open. The 'Save this BIM Component' option is highlighted. A 3D model of a car frame is shown below the menu, with a red bounding box around it. Red arrows point from the bounding box to the 'Save this BIM Component' option and from the option to the 'Save Component' dialog box.



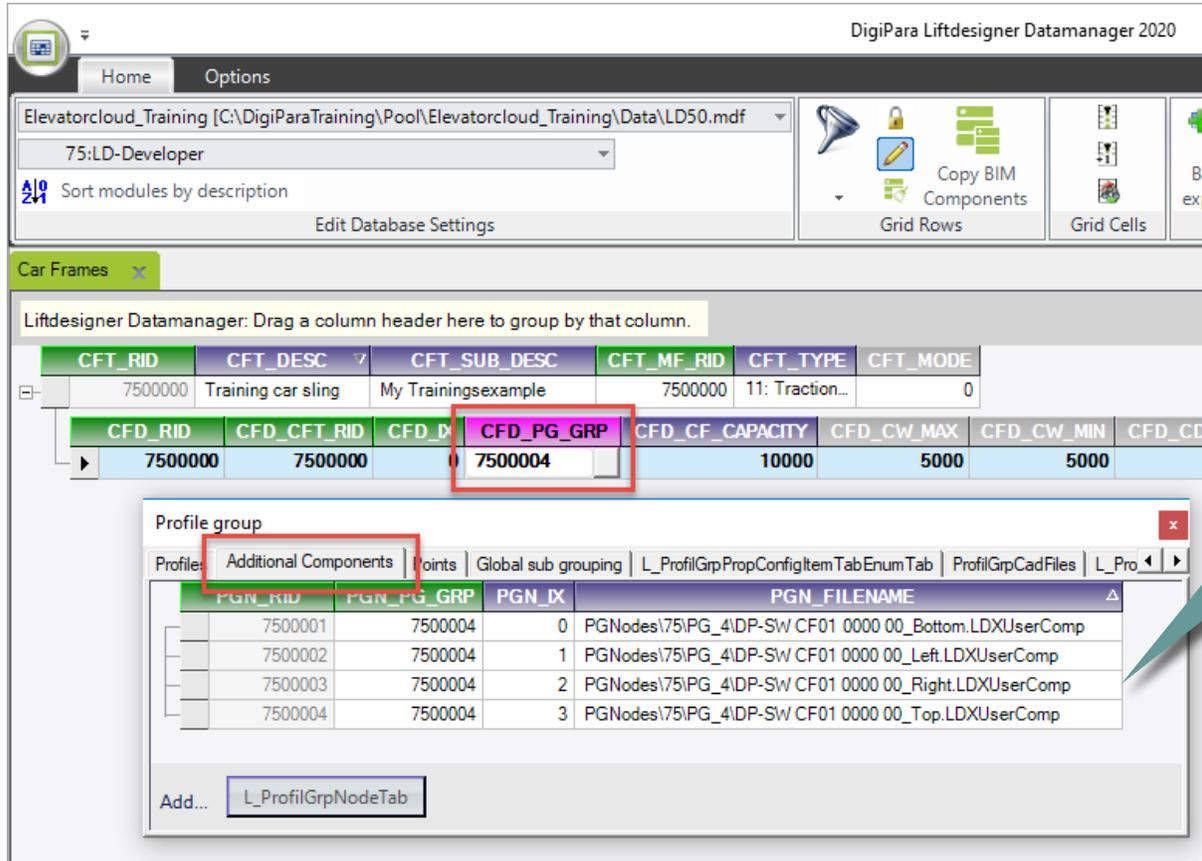
The 'Save Component' dialog box is shown, displaying the 'SAVE BIM COMPONENT' screen. The screen shows the following information:

STEP 2: What is part of your BIM component?

BIM component to be saved:
Shaft0.Car.Frame.

Included	Component Name
Yes	0 Profiles
Yes	15 Characteristic Points
<input checked="" type="checkbox"/>	DP-SW CF01 0000 00_Bottom
<input checked="" type="checkbox"/>	DP-SW CF01 0000 00_Right
<input checked="" type="checkbox"/>	DP-SW CF01 0000 00_Left
<input checked="" type="checkbox"/>	DP-SW CF01 0000 00_Top

Save the BIM Component back into the Library



The screenshot shows the DigiPara LiftDesigner Datamanager 2020 interface. The main window displays a table of components with columns: CFT_RID, CFT_DESC, CFT_SUB_DESC, CFT_MF_RID, CFT_TYPE, CFT_MODE, CFD_RID, CFD_CFT_RID, CFD_IDX, CFD_PG_GRP, CFD_CF_CAPACITY, CFD_CW_MAX, CFD_CW_MIN, and CFD_CD. A red box highlights the 'CFD_PG_GRP' column in the table, which contains the value '7500004'. Below the table, a 'Profile group' dialog box is open, showing a list of profiles. The 'Additional Components' profile is selected, and a red box highlights its name. The dialog box also shows a table of profiles with columns: PGN_RID, PGN_PG_GRP, PGN_IDX, and PGN_FILENAME. The table contains four rows of data for profiles 7500001 through 7500004. At the bottom of the dialog box, there is an 'Add...' button and a text field containing 'L_ProfilGrpNodeTab'.

CFT_RID	CFT_DESC	CFT_SUB_DESC	CFT_MF_RID	CFT_TYPE	CFT_MODE
7500000	Training car sling	My Trainingsexample	7500000	11: Traction...	0

CFD_RID	CFD_CFT_RID	CFD_IDX	CFD_PG_GRP	CFD_CF_CAPACITY	CFD_CW_MAX	CFD_CW_MIN	CFD_CD
7500000	7500000	0	7500004	10000	5000	5000	

PGN_RID	PGN_PG_GRP	PGN_IDX	PGN_FILENAME
7500001	7500004	0	PGNodes\75\PG_4\DP-SW CF01 0000 00_Bottom.LDXUserComp
7500002	7500004	1	PGNodes\75\PG_4\DP-SW CF01 0000 00_Left.LDXUserComp
7500003	7500004	2	PGNodes\75\PG_4\DP-SW CF01 0000 00_Right.LDXUserComp
7500004	7500004	3	PGNodes\75\PG_4\DP-SW CF01 0000 00_Top.LDXUserComp

The CAD Models are stored as an embedded copy in the DigiPara BIM Library and completely independent of the original files.

PL3.4

Dynamic BIM
Component: Car Frame

Optional Steps



DYNAMIC
BIM
COMPONENT

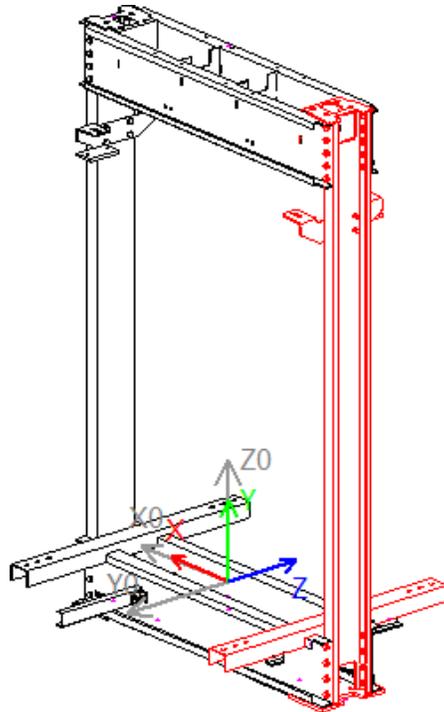
✓ Associate DigiPara Liftdesigner 3D
Parameter

Associate DigiPara Liftdesigner 3D Parameter

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Position the CAD Models

- using DigiPara Liftdesigner 3D Parameter and/or fix values in the Properties Window for dynamic BIM Components



Breadcrumb: Document: Shaft0. Car. Frame. DP-SW CF01 0000 00 Left.

Properties: DP-SW CF01 0000 00_Left [DP-SW CF01 0000 00_Left]

[0018] Additional Child Object Settings	
Assigned Parent Component	Shaft0.Car.Frame
Child Object Name	DP-SW CF01 0000 00_Left
Assigned Component Group	Car frame
Include in Save to Database	Yes
Include Profile Points in Parent	No
Picking Selects Parent	No
[0022] Project Level Geometry Information	
Create Geometry	By parent
Create Geometry status	Create
[0024] Product Options	
Product Option List Source	This Component
This Object belongs to Product Opt	-1
[0026] Location	
Position and angle calculation	Manually by Equations
X0 [mm] = 0	800 - 0.5*FW
Y0 [mm] = 0	0
Z0 [mm] = 0	0
[0082] CAD Model Display File	
[0084] CAD Model Automation	
[0519] Options	
File Paths	and Relative to Project
[0520] 3D Parameters	
[0]: FW	1600
[1]: CART_TOTAL_DZ	2080
[2]: FD	1285
[3]: WD	25

The CAD Model position is directly linked to the current car width.

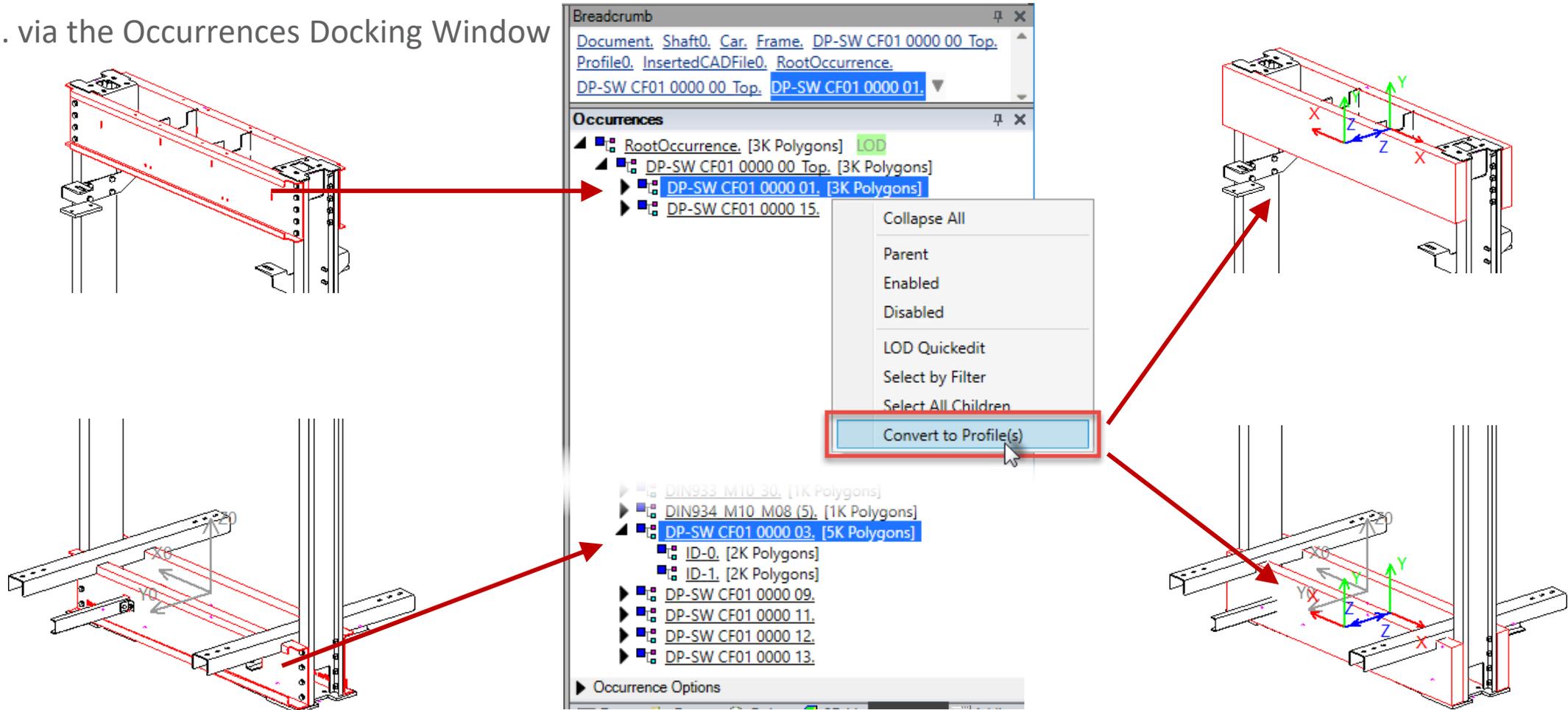
For the opposite model, the formula can be inserted into the corresponding Properties Window via the copy function. The signs must be adjusted manually.

✓ Convert to simplified Liftdesigner profiles

Convert to simplified DigiPara Liftdesigner profiles

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

- ... via the Occurrences Docking Window

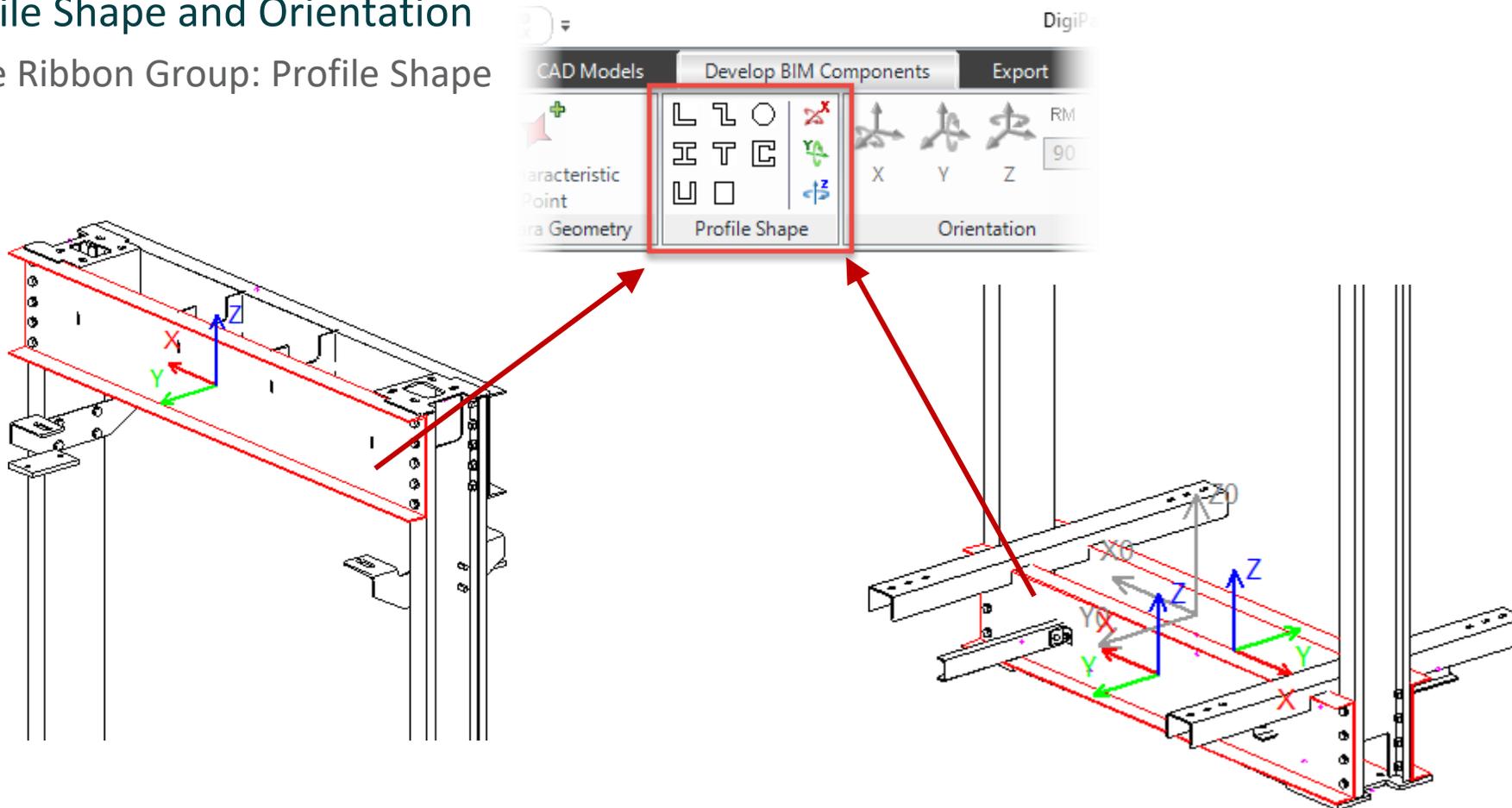


Convert to simplified DigiPara Liftdesigner profiles

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Adjust Profile Shape and Orientation

- ... via the Ribbon Group: Profile Shape

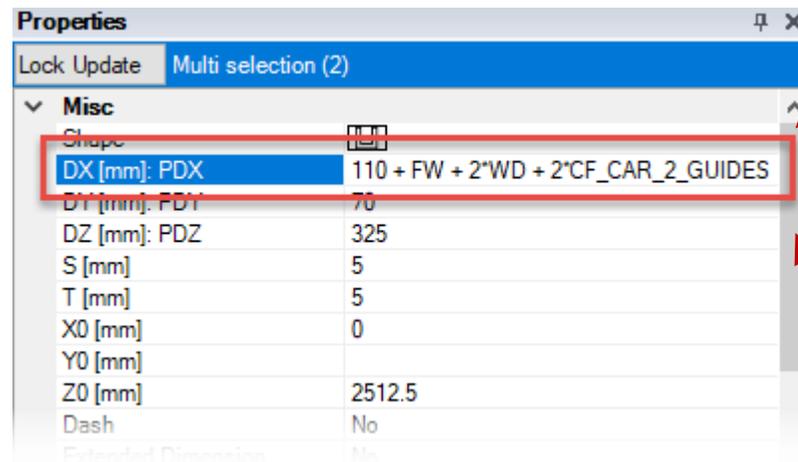


Convert to simplified DigiPara Liftdesigner profiles

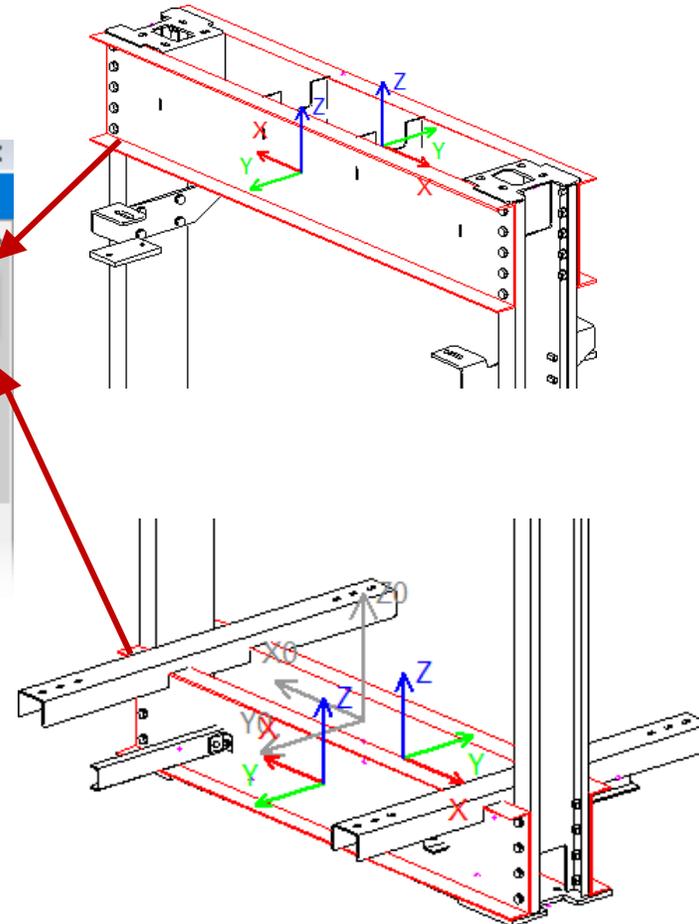
PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Customize converted Profile - Size

- ... using 3D Parameter via the Profile Properties



Replace the inherited fixed value with a formula:
 $110 + \text{Car width} + 2 * \text{Wall thickness} + 2 * \text{Distance between the guides}$

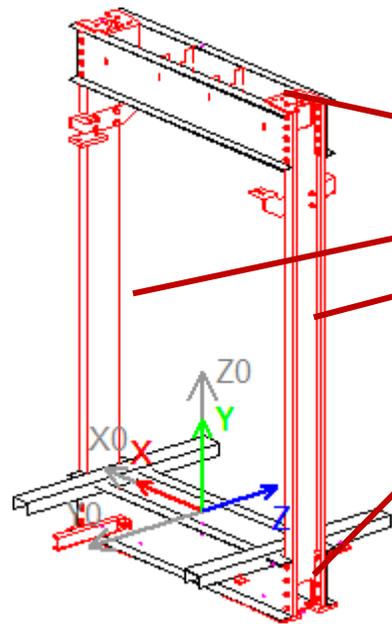


Convert to simplified DigiPara Liftdesigner profiles

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

CAD Model setting: Picking selects parent

- ... in DigiPara Liftdesigner Properties Window



Properties [Multi selection (4)]

[78]: TC_4_DZ	0
Extended Dimension	No
Display CAD filename	
Include in Save to BIM Library	Yes
Include profile points in parent	No
Product Option List Source	This Component
Stored Display CAD Filename	
Picking selects parent	Yes
Overall scale rule (Scale=1)	1
File paths	are Relative to Project
User defined base point	No
Geometry information	
Automation CAD Software	Unknown
Embed a geometry Copy	Yes (embedded)
Project level automation	Included
Parameter Mapping	No
[0]: FW	1600
[1]: CAR1_TOTAL_DZ	2080
[2]: FD	1385
[3]: WD	25
[4]: K_DZ_SPACE	200
[5]: CFD_HB	2681
[6]: CFD_DBG	1700

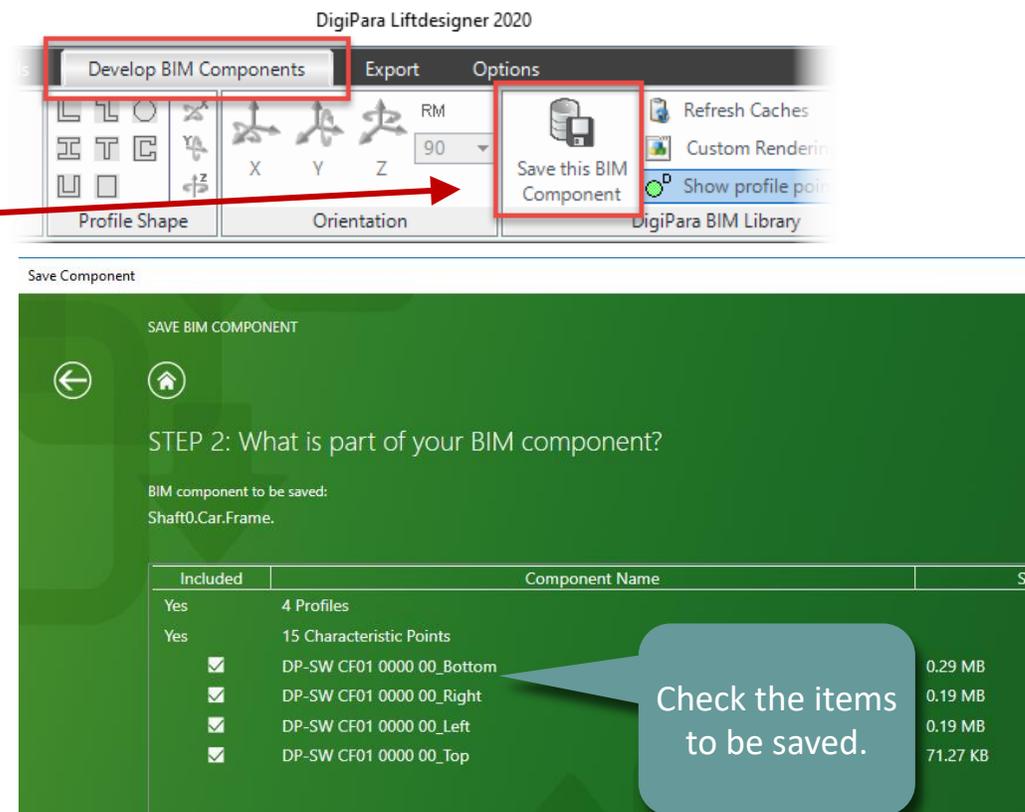
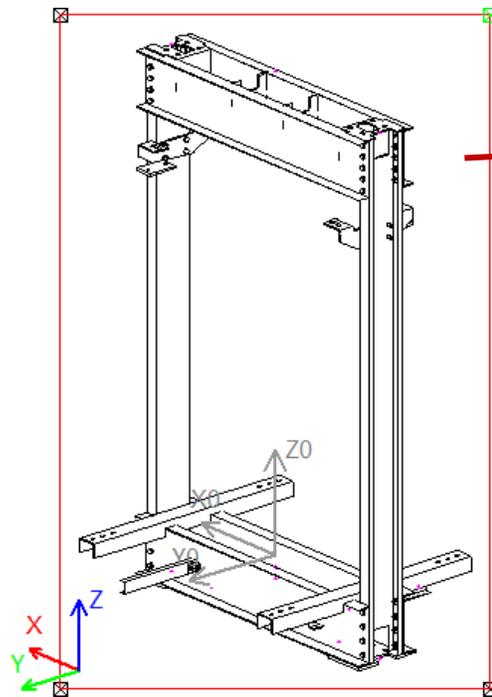
The DigiPara Liftdesigner parent BIM Component will always be selected in non-developer view frames.

Convert to simplified DigiPara Liftdesigner profiles

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Save the finished defined BIM Component

- ... into the DigiPara BIM Library



The screenshot shows the DigiPara Liftdesigner 2020 software interface. The 'Develop BIM Components' tab is active, and the 'Save this BIM Component' button is highlighted. A red arrow points from the button to the 'Save Component' dialog box. The dialog box is titled 'SAVE BIM COMPONENT' and shows 'STEP 2: What is part of your BIM component?'. The BIM component to be saved is 'Shaft0.Car.Frame'. A table lists the items to be saved, with a callout bubble pointing to the table.

Included	Component Name	Size
Yes	4 Profiles	
Yes	15 Characteristic Points	
<input checked="" type="checkbox"/>	DP-SW CF01 0000 00_Bottom	0.29 MB
<input checked="" type="checkbox"/>	DP-SW CF01 0000 00_Right	0.19 MB
<input checked="" type="checkbox"/>	DP-SW CF01 0000 00_Left	0.19 MB
<input checked="" type="checkbox"/>	DP-SW CF01 0000 00_Top	71.27 KB

Check the items to be saved.



Set individual LOD

Level of Development

Set individual LOD

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

General information

- Online help link: [LOD Setting Recommendations for DigiPara Liftdesigner users](#)

Options in DigiPara Liftdesigner

- By Parent
 - This is the default values for all occurrences. The related object has the same settings as the parent object.
- Off
 - The related occurrence should not be displayed.
- Bounding Box
 - Instead of geometry ONE BOX is shown around the geometry of this occurrence and all child occurrences.
- Bounding Box per Occurrence
 - Instead of geometry AN INDIVIDUAL BOX is shown around the geometry of each child occurrence.
- Polygons
 - Display as designed.

BIM Properties &
Exports

C1

CAD Models &
Automation

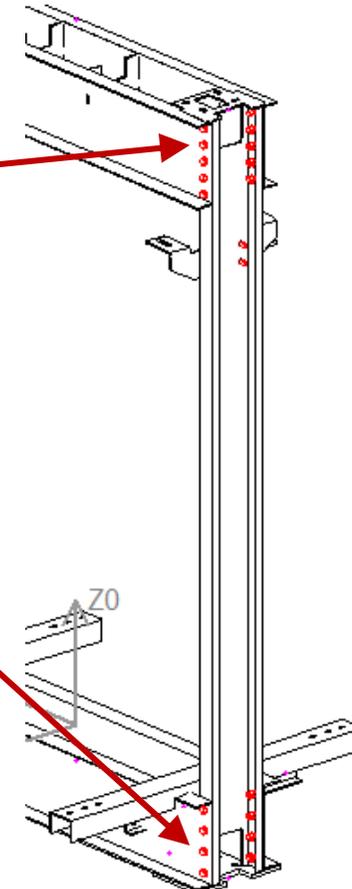
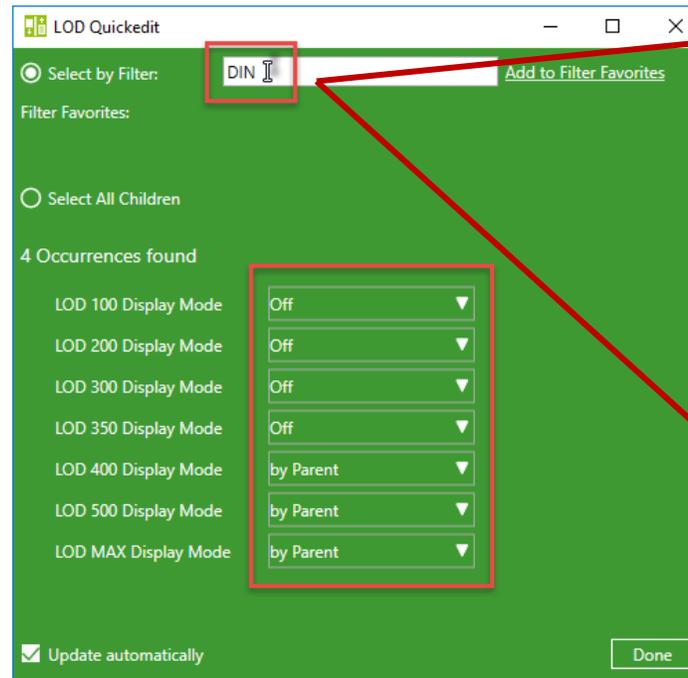
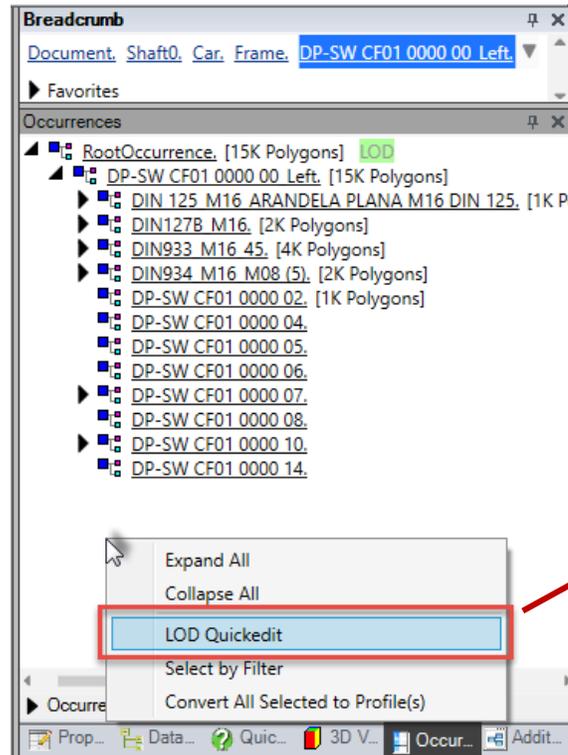
EL4

Set individual LOD

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Set individual LOD settings of your BIM Component

- ... via: LOD Quickedit

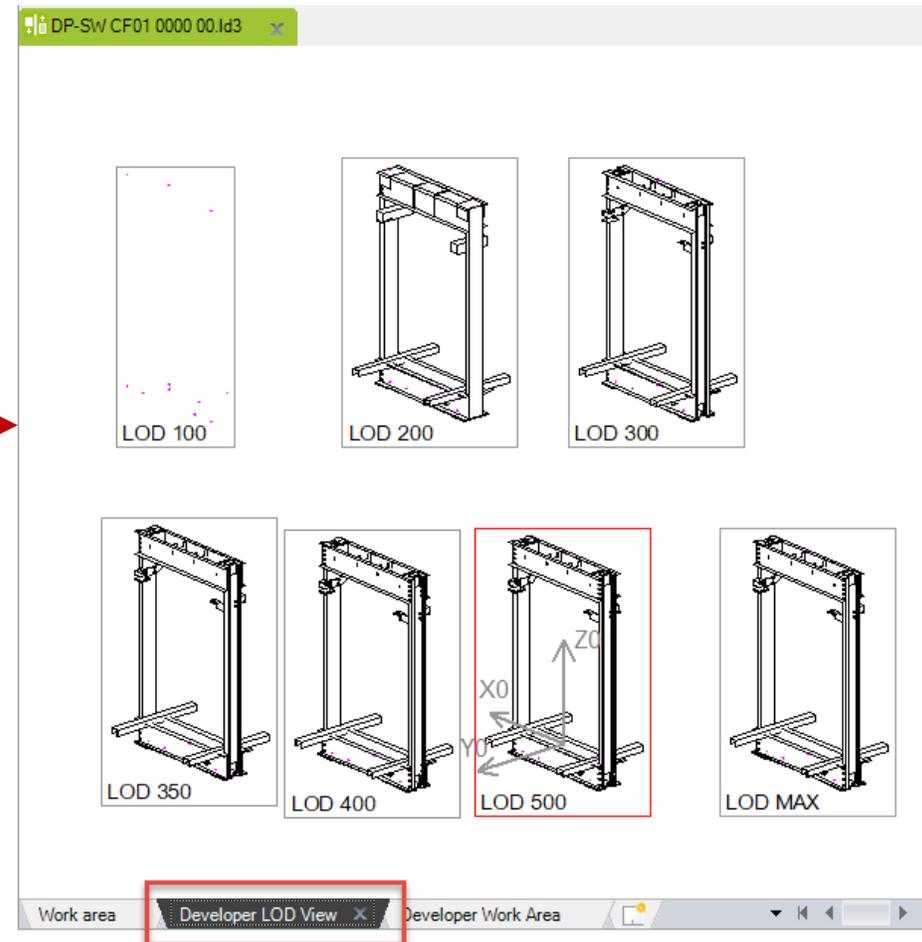


Set individual LOD

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Check the LOD settings by just one glance

- ... in the Developer LOD View
- This prepared sheet of the various LOD settings for a BIM Component is automatically loaded with the Developer Work Area.



✓ Options & Rules

Define new and customize copied Product Options

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Define new and customize copied Product Options

- ... in DigiPara Liftdesigner Datamanager via the Profile Group

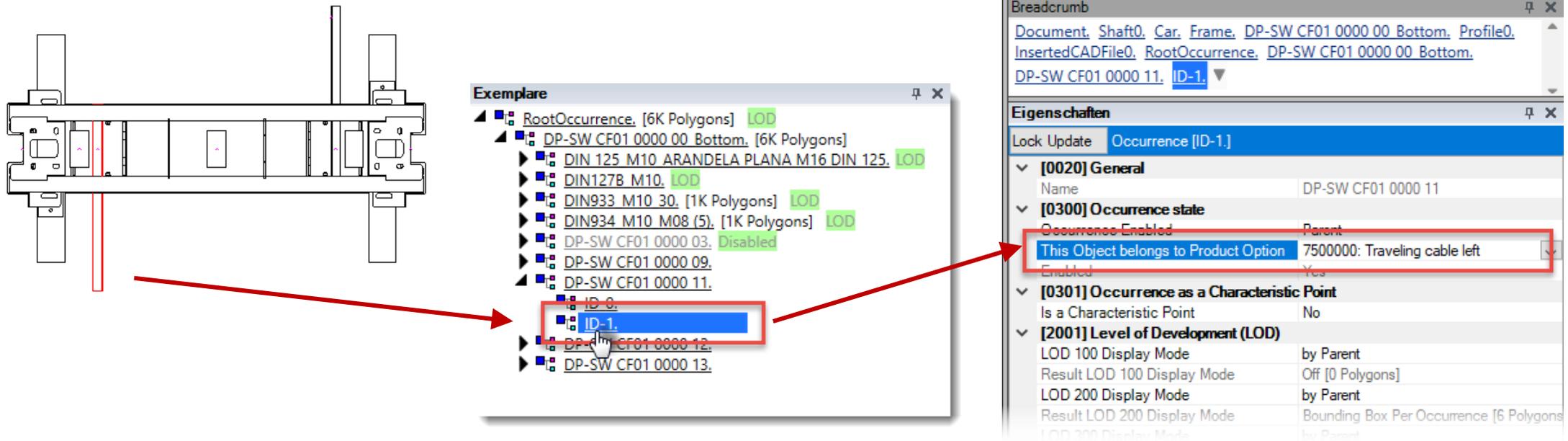
The screenshot displays the 'Car Frames' section of the DigiPara Liftdesigner Datamanager. The main table lists product options with columns: CFT_RID, CFT_DESC, CFT_SUB_DESC, CFT_MF_RID, CFT_TYPE, and CFT_MODE. Below this, a detailed view shows columns: CFD_RID, CFD_CFT_RID, CFD_D, CFD_PG_GRP, CFD_CF_CAPACITY, CFD_CW_MAX, CFD_CW_MIN, CFD_CD_MAX, CFD_CD_MIN, CFD_HB, and CFD. A 'Profile group' dialog box is open, showing a table with columns: PGT_RID, PGT_DESC, PGT_PART_NO, PGT_MF_RID, PGT_STRUCTURE1_DESC, PGT_STRUCTURE2_DESC, PGT_DX, and PGT_PDF. The 'Global sub grouping' tab is selected. A red box highlights the 'CFD_PG_GRP' column in the main table, and another red box highlights the 'L_ProfilGrpTypeTab' tab in the dialog box. A red arrow points from the dialog box back to the main table. A note box at the bottom right states: 'Note: By selecting the tab again, the new content is saved!'.

Define new and customize copied Product Options

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Assign created Product Options to the individual Occurrences

- ... in DigiPara LiftDesigner via the Properties Window

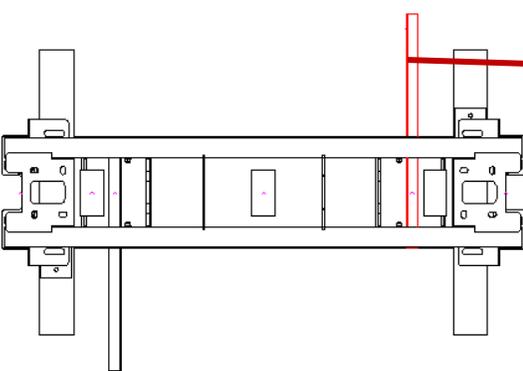


Define new and customize copied Product Options

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Assign created Product Options to the individual Occurrences

- ... in DigiPara Liftdesigner via the Properties Window



Occurrences

- RootOccurrence. [6K Polygons] LOD
- DP-SW CF01 0000 00_Bottom. [6K Polygons]
 - DIN 125_M10_ARANDELA PLANA M16 DIN 125.
 - DIN127B_M10.
 - DIN933_M10_30. [1K Polygons]
 - DIN934_M10_M08 (5). [1K Polygons]
 - DP-SW CF01 0000 03. Disabled
 - DP-SW CF01 0000 09.
 - DP-SW CF01 0000 11. LOD
 - ID-0. (highlighted with a red box)
 - ID-1. 7500000: Traveling cable Left
 - DP-SW CF01 0000 12.
 - DP-SW CF01 0000 13.

Exemplare

- RootOccurrence. [6K Polygons] LOD
- DP-SW CF01 0000 00_Bottom. [6K Polygons]
 - DIN 125_M10_ARANDELA PLANA M16 DIN 125. LOD
 - DIN127B_M10. LOD
 - DIN933_M10_30. [1K Polygons] LOD
 - DIN934_M10_M08 (5). [1K Polygons] LOD
 - DP-SW CF01 0000 03. Disabled
 - DP-SW CF01 0000 09.
 - DP-SW CF01 0000 11.
 - ID-0. 7500001: Traveling cable right (highlighted with a green checkmark)
 - ID-1. 7500000: Traveling cable left
 - DP-SW CF01 0000 12.
 - DP-SW CF01 0000 13.

Properties

Lock Update Occurrence [ID-0.]

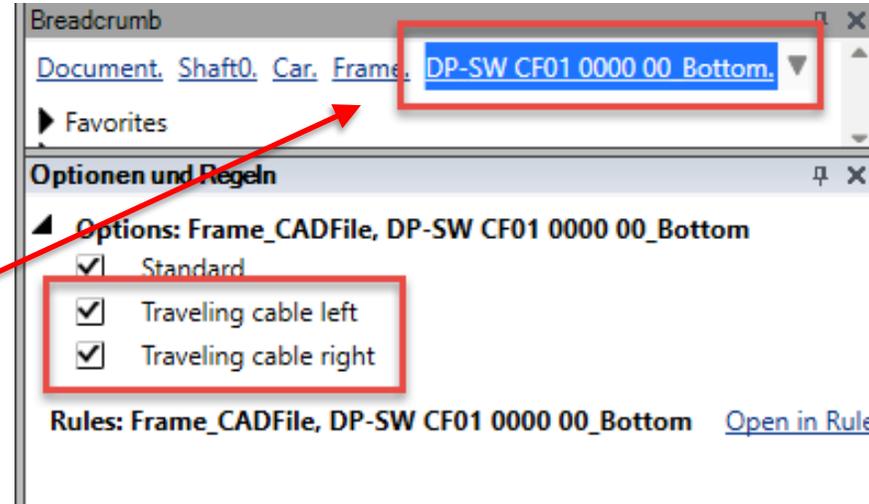
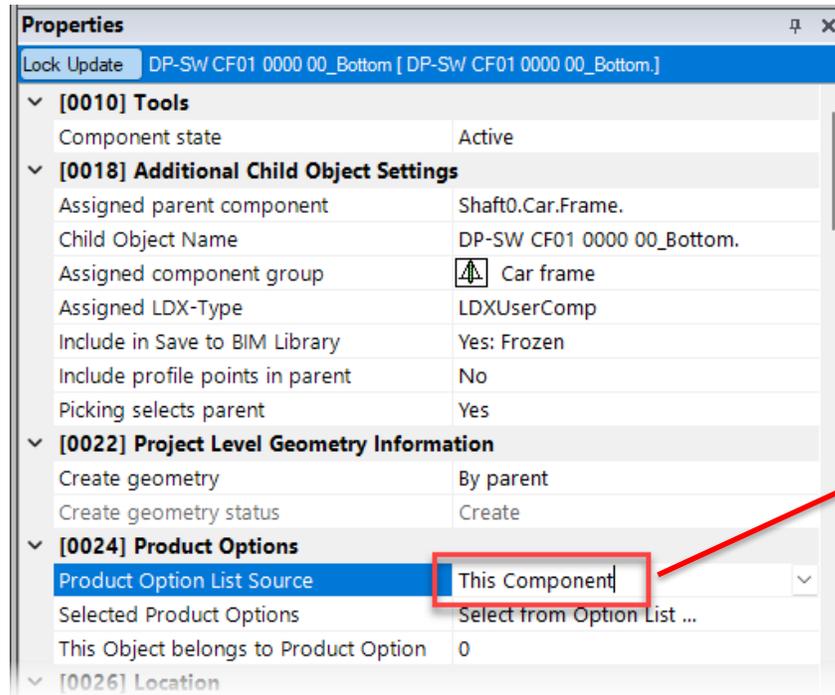
[0020] General	
Name	DP-SW CF01 0000 11
[0300] Occurrence state	
Occurrence Enabled	Parent
This Object belongs to Product Option	7500001: Traveling cable Right (highlighted with a red box)
Enabled	Yes
[0301] Occurrence as a Characteristic Point	
Is a Characteristic Point	No
[2001] Level of Development (LOD)	
LOD 100 Display Mode	by Parent
Result LOD 100 Display Mode	Off [0 Polygons]
LOD 200 Display Mode	by Parent

Define new and customize copied Product Options

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

View the created Product Options related to the parent BIM Component

- ... in DigiPara Liftdesigner via the Properties Window

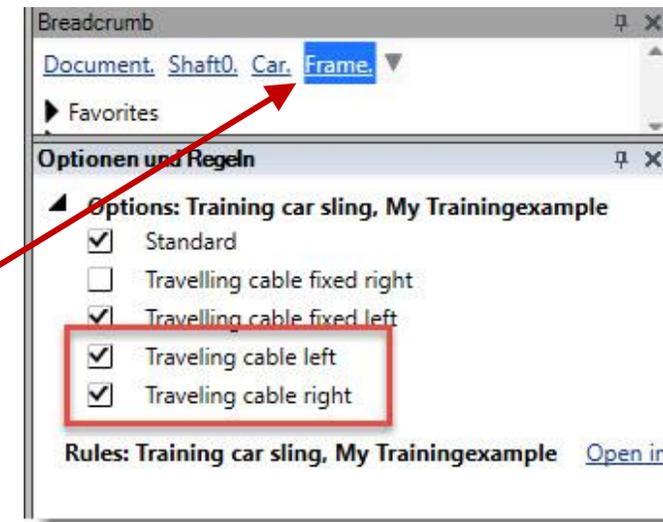
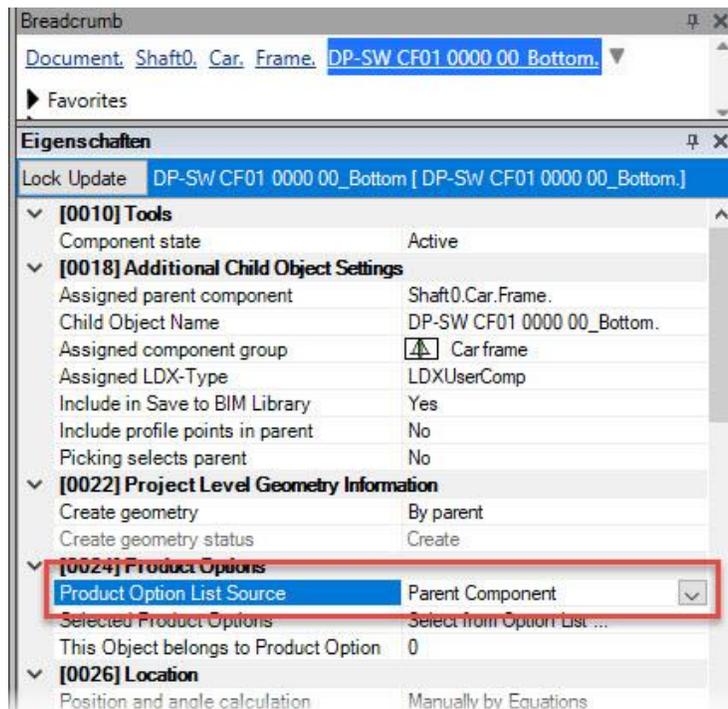


Define new and customize copied Product Options

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

View the created Product Options related to the parent BIM Component

- ... in DigiPara Lift designer via the Properties Window

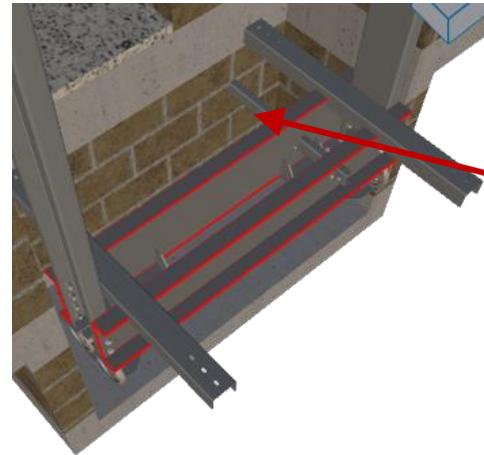
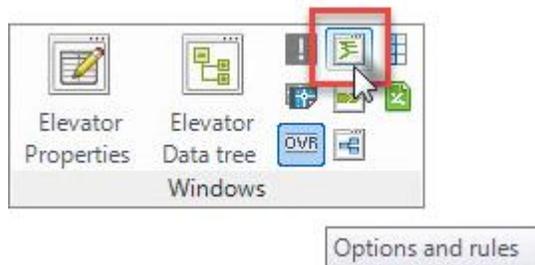


Define new and customize copied Product Options

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

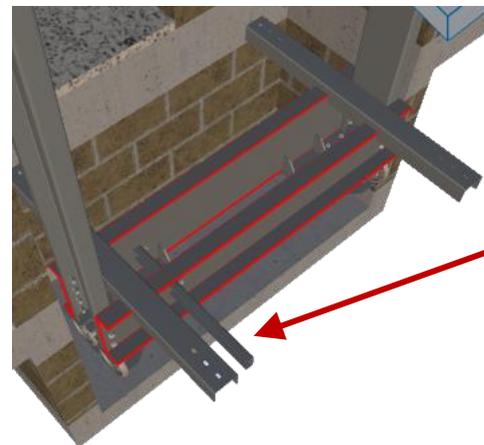
Check the new Product Options

- ... in DigiPara Liftdesigner via: Options and Rules



- Traveling cable left
- Traveling cable right

Rules: Training car sling, My Trainingexample [Open in Rule Editor](#)



- Traveling cable left
- Traveling cable right

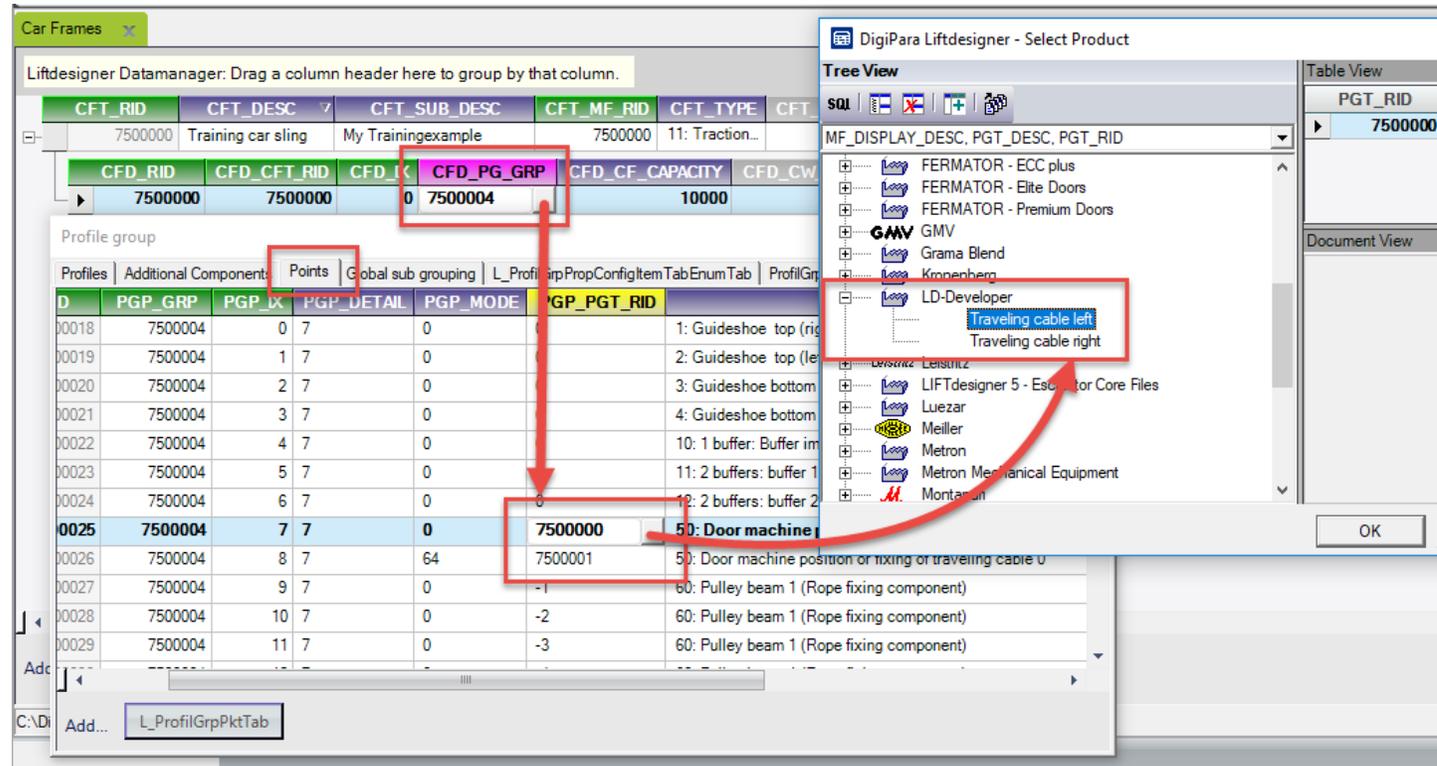
Rules: Training car sling, My Trainingexample [Open in Rule Editor](#)

Define new and customize copied Product Options

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Customize existing copied positioning points to the new Product Options

- ... in DigiPara Liftdesigner Datamanager

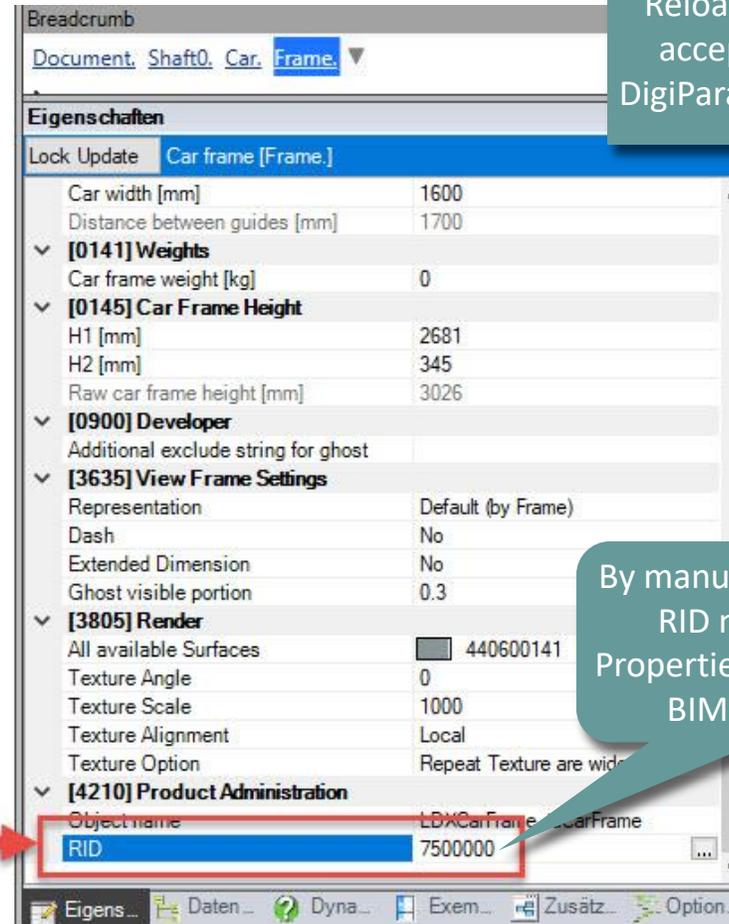
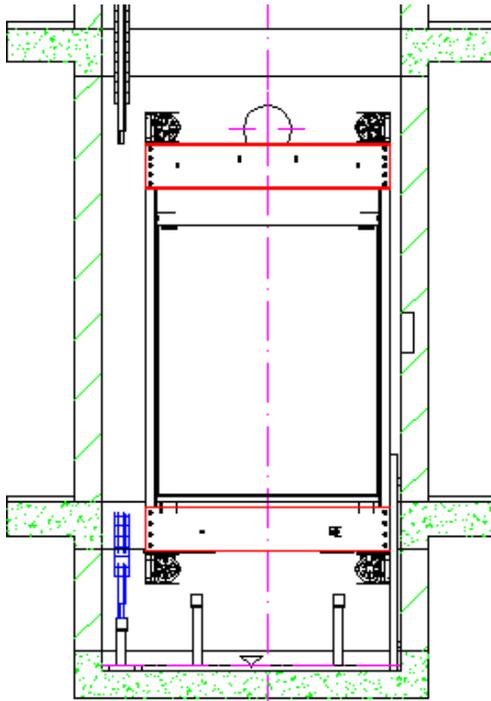


Define new and customize copied Product Options

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Reload the modified BIM Component

- ... in DigiPara Liftdesigner



Reload your BIM Component to accept edited values from the DigiPara Liftdesigner Datamanager.

By manually swapping the RID number in the Properties Window for the BIM Component.

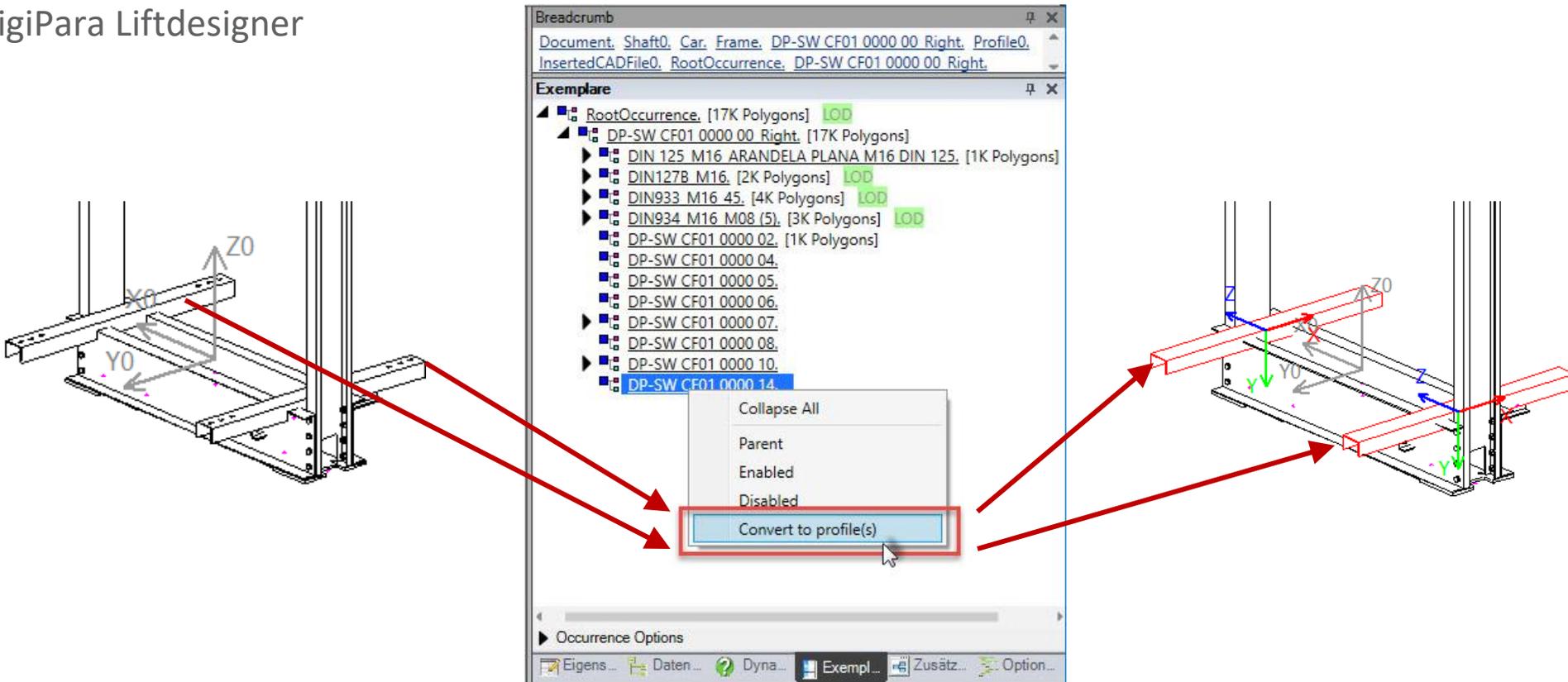
✓ Prepare and add dynamic BIM
Component Rules

Prepare and add dynamic BIM Component Rules

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Preparation Steps – Convert into simplified Profiles

- ... in DigiPara LiftDesigner

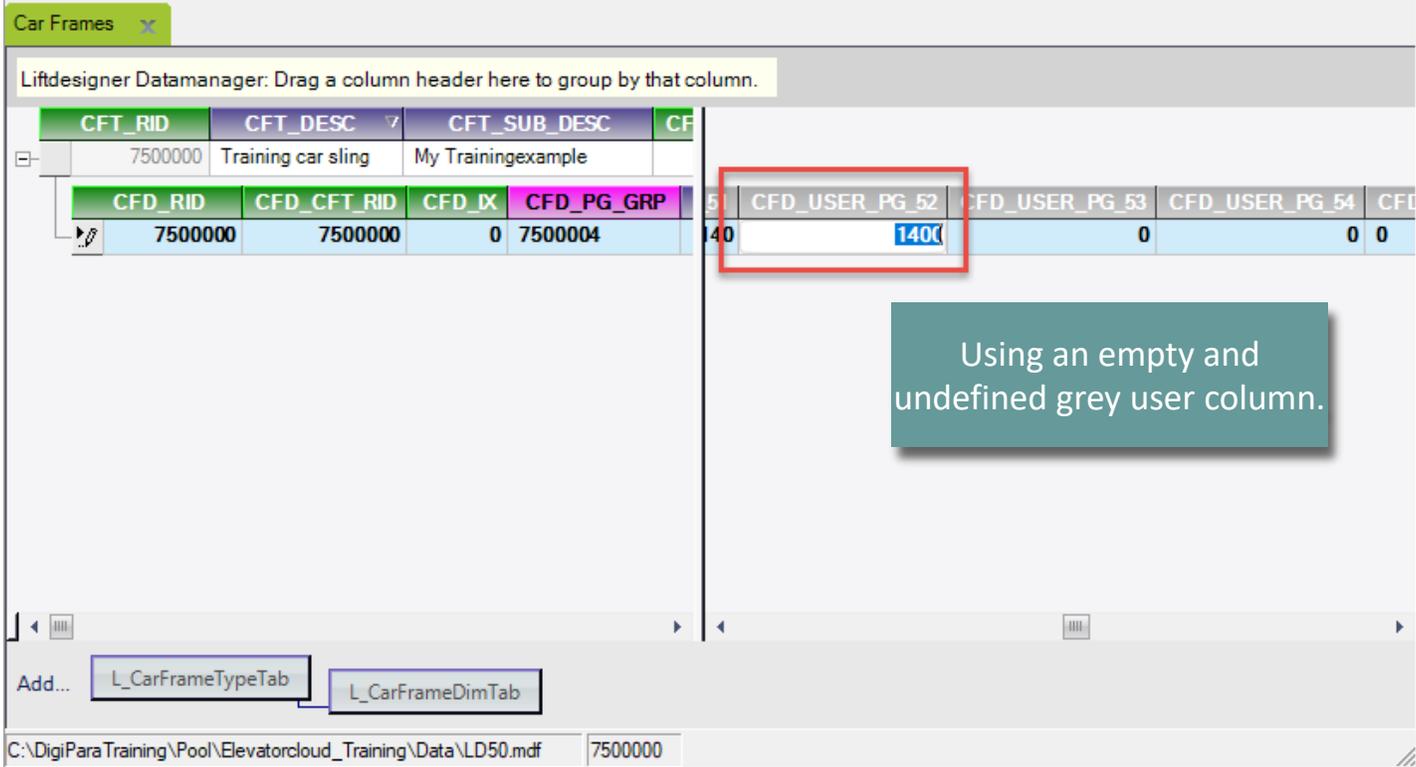


Prepare and add dynamic BIM Component Rules

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Preparation Steps – Create a user defined 3D Parameter

- ... in DigiPara LiftDesigner Datamanager



LiftDesigner Datamanager: Drag a column header here to group by that column.

CFT_RID	CFT_DESC	CFT_SUB_DESC	CFD_RID	CFD_CFT_RID	CFD_IX	CFD_PG_GRP	CFD_USER_PG 52	CFD_USER_PG 53	CFD_USER_PG 54	CFD_USER_PG 55
7500000	Training car sling	My Trainingexample	7500000	7500000	0	7500004	140	0	0	0

Using an empty and undefined grey user column.

Add...

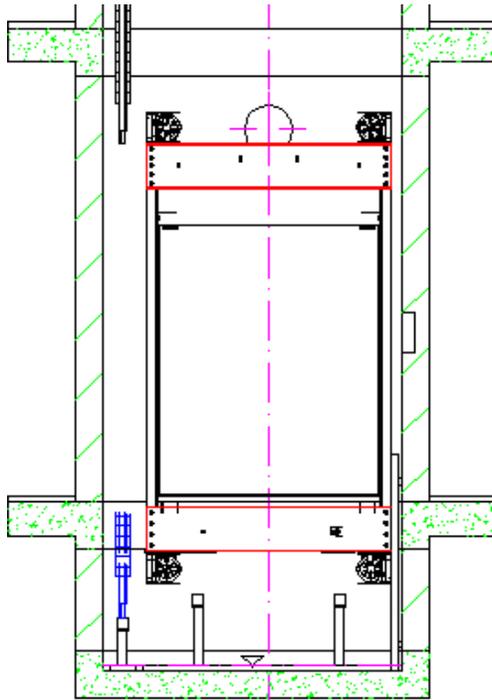
C:\DigiParaTraining\Pool\Elevatorcloud_Training\Data\LD50.mdf | 7500000

Prepare and add dynamic BIM Component Rules

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Reload the modified BIM Component

- ... in DigiPara Liftdesigner



Breadcrumb: Document, Shaft0, Car, Frame.

Eigenschaften

Lock Update Car frame [Frame.]

Car width [mm]	1600
Distance between guides [mm]	1700
[0141] Weights	
Car frame weight [kg]	0
[0145] Car Frame Height	
H1 [mm]	2681
H2 [mm]	345
Raw car frame height [mm]	3026
[0900] Developer	
Additional exclude string for ghost	
[3635] View Frame Settings	
Representation	Default (by Frame)
Dash	No
Extended Dimension	No
Ghost visible portion	0.3
[3805] Render	
All available Surfaces	440600141
Texture Angle	0
Texture Scale	1000
Texture Alignment	Local
Texture Option	Repeat Texture are wide
[4210] Product Administration	
Object name	LDXCarFrame.idCar...ame
RID	7500000

Eigens... Daten... Dyna... Exem... Zusätz... Option...

Reload your BIM Component to accept edited values from the DigiPara Liftdesigner Datamanager.

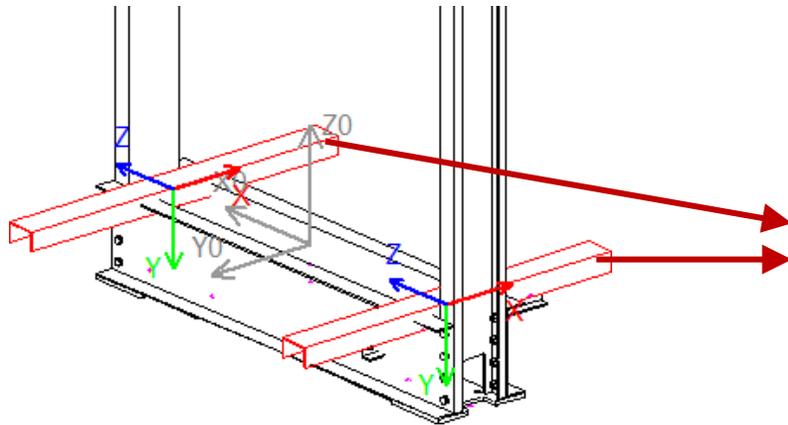
By manually swapping the RID number in the Properties Window for the BIM Component.

Prepare and add dynamic BIM Component Rules

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Assignment of the new user defined 3D Parameter to the Profile

- ... in DigiPara LiftDesigner



Properties Profile 4 [Profile4.]

Lock Update

Shape U-Type

[0516] Size

DX [mm]: PDX = 1400	P52
DY [mm]: PDY = 75	75
DZ [mm]: PDZ = 120	120
S [mm]	5
T [mm]	5

[0517] Position

X0 [mm] = -725	-0.5*FW + 75
Y0 [mm] = 0	0
[33]: TC_1_DX	0
[40]: TC_1_DY	0
[41]: TC_1_DZ	0
[50]: P50	140
[51]: P51	140
[52]: P52	1400
[70]: TC_2_DX	0
[71]: TC_2_DY	0
[72]: TC_2_DZ	0
[73]: TC_3_DX	0

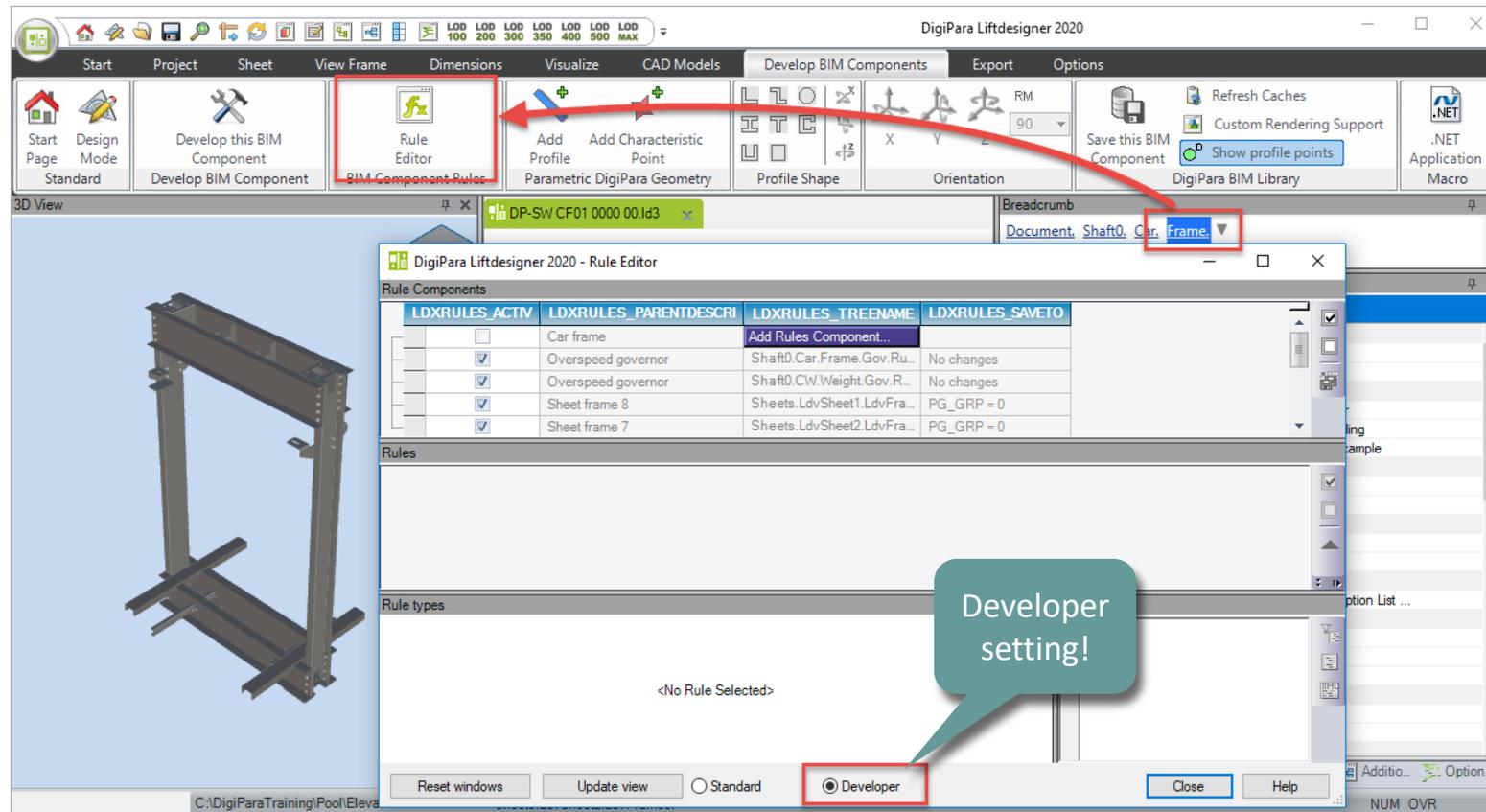
A red arrow points from the 'DX [mm]: PDX = 1400' row in the Size section to the 'P52' column. Another red arrow points from the 'P52' column in the Position section to the 'DX [mm]: PDX = 1400' row. A large red curved arrow indicates the overall flow of the assignment process.

Prepare and add dynamic BIM Component Rules

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Add dynamic BIM Component Rules

- ... in DigiPara Liftdesigner Rule Editor

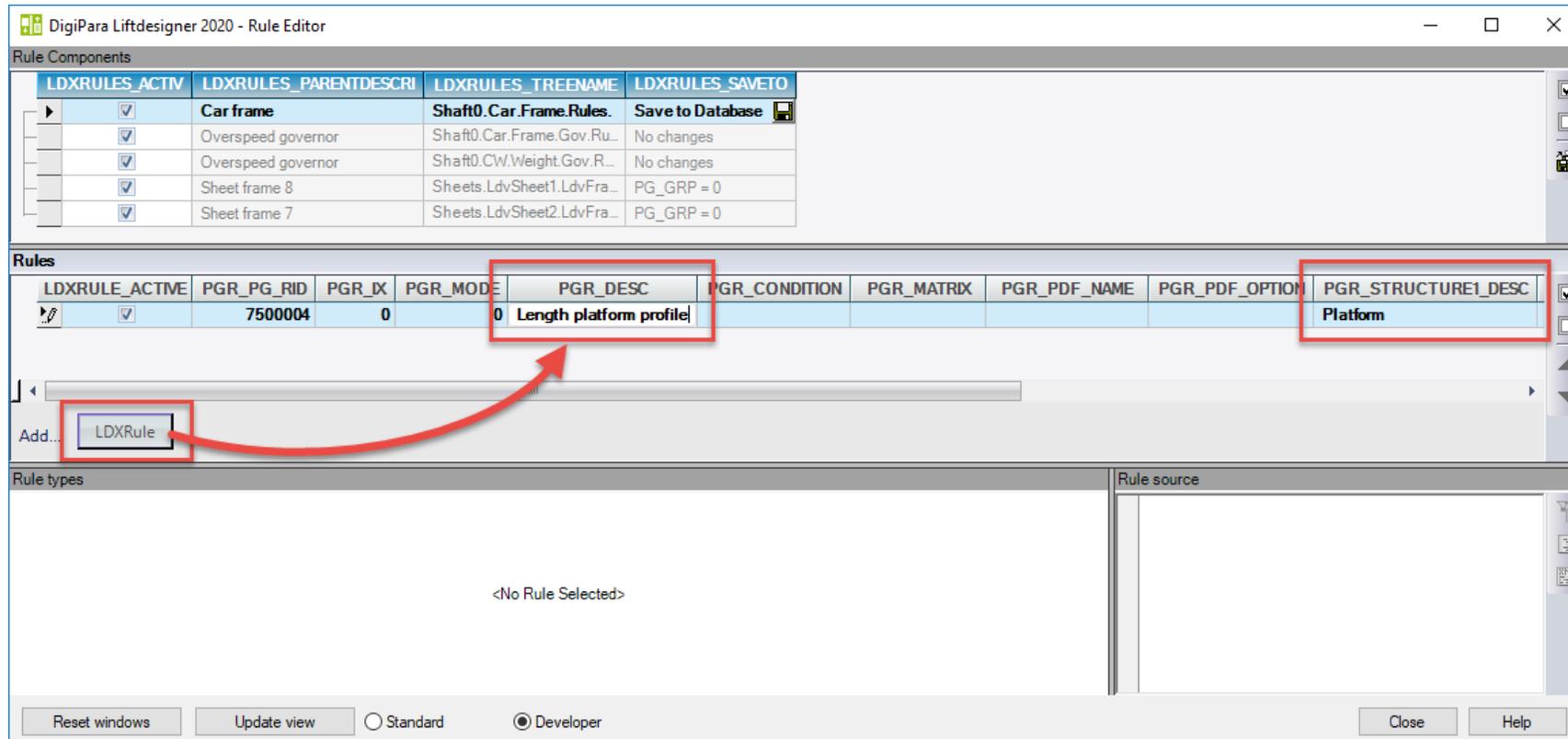


Prepare and add dynamic BIM Component Rules

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Define dynamic Rules: Description and Tree Structure

- ... in DigiPara LiftDesigner Rule Editor

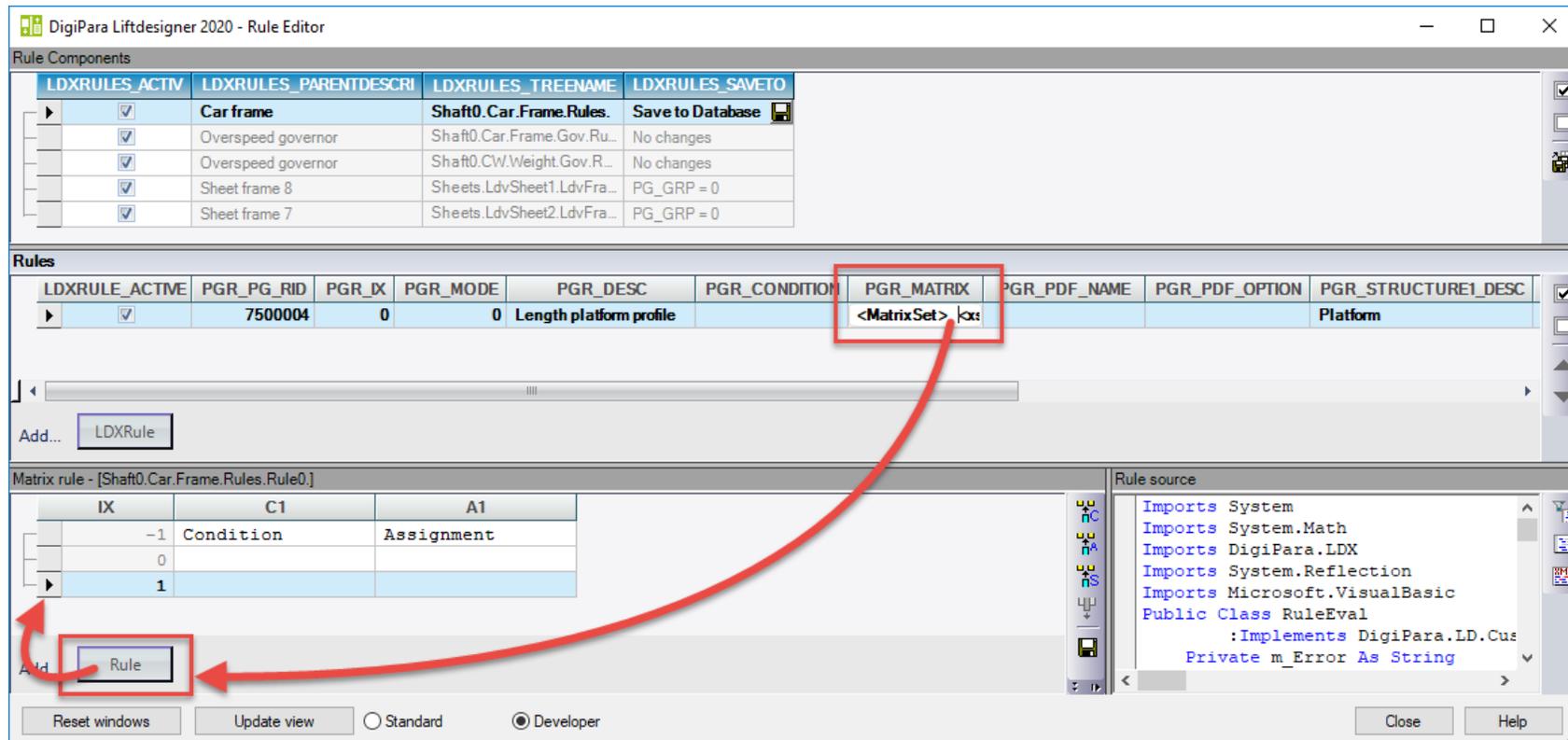


Prepare and add dynamic BIM Component Rules

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Define dynamic Rules: Condition and Assignment

- ... in DigiPara Lift designer Rule Editor



Prepare and add dynamic BIM Component Rules

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Define dynamic Rules: Condition and Assignment

- ... in DigiPara LiftDesigner Rule Editor

Car Depth User defined 3D Parameter

Matrix rule - [Shaft0.Car.Frame.Rules.Rule0.]

IX	C1	A1
-1	LD ("Me.Parent.CD")	Me.L CarFrameDimTab.CFD USER PG 52
0	<=1400	1000
1	>1400	1400

Add...

Prepare and add dynamic BIM Component Rules

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

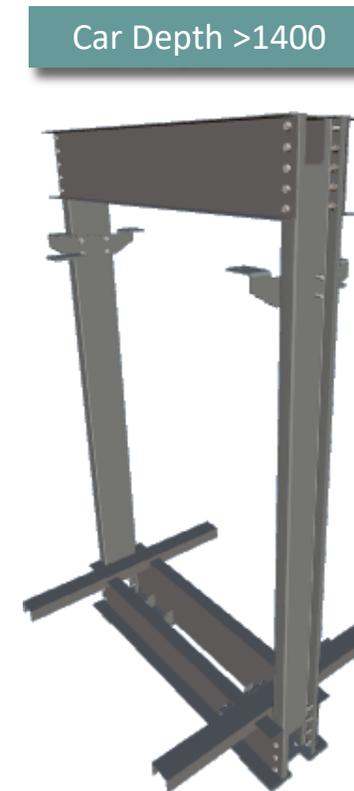
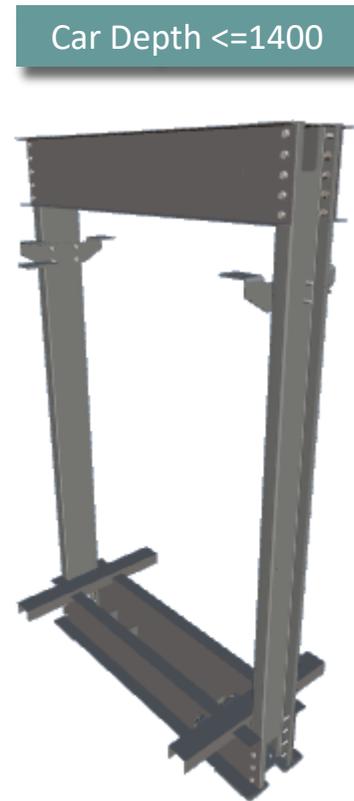
Save your new dynamic Rule

Prepare and add dynamic BIM Component Rules

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Testing the new dynamic Rule

- ... in DigiPara Liftdesigner

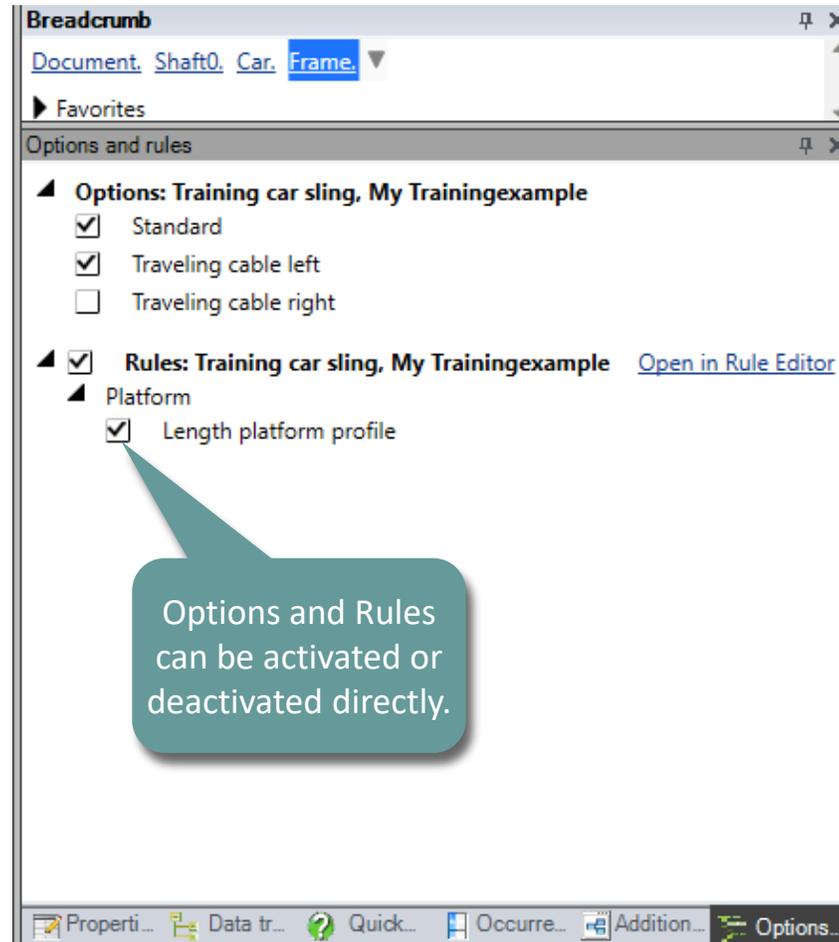


Prepare and add dynamic BIM Component Rules

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

Options and Rules

- ... in DigiPara LiftDesigner

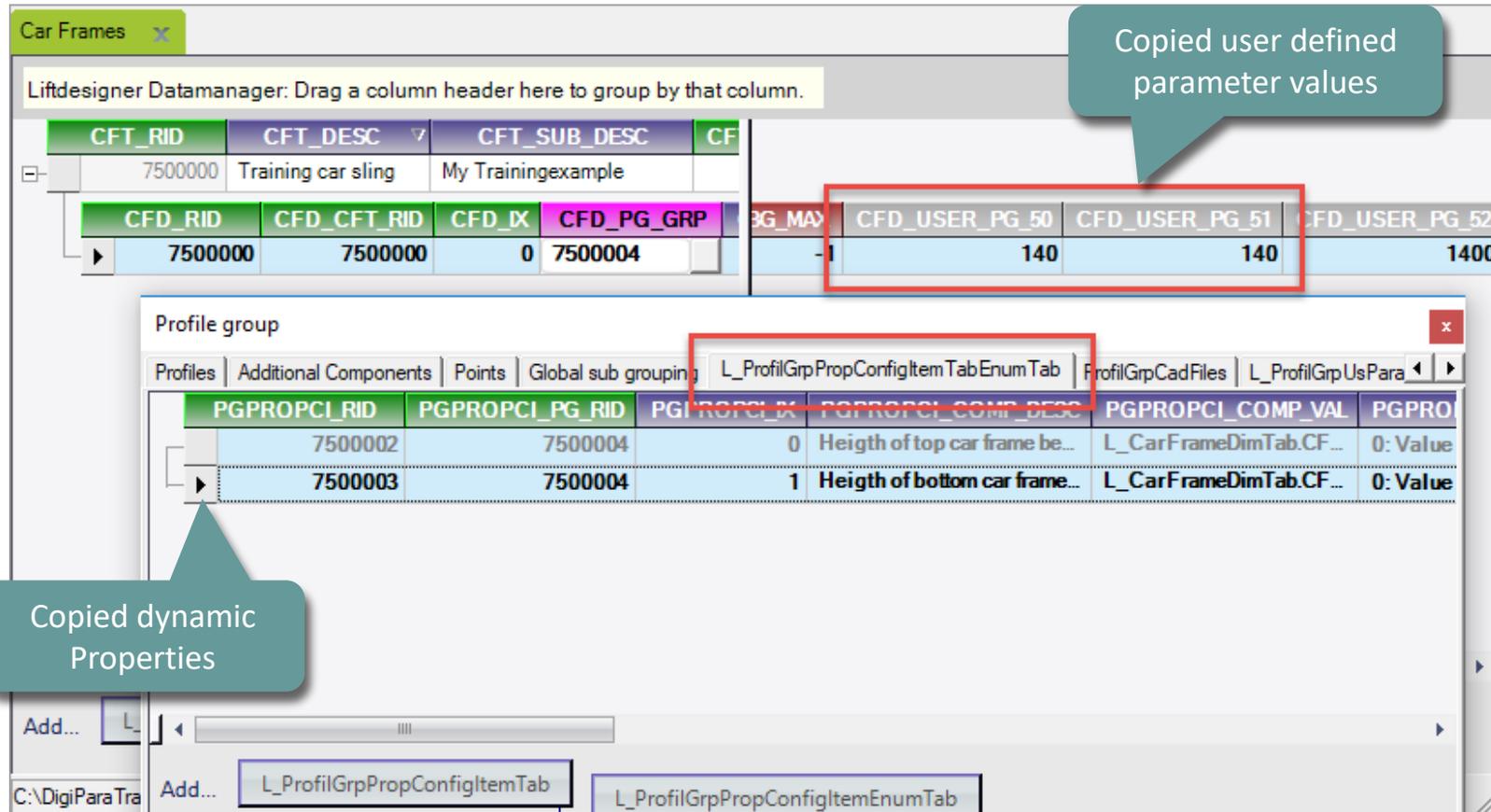


✓ Delete unneeded Data

Delete unneeded Data

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

- ... in DigiPara LiftDesigner Datamanager



The screenshot displays the DigiPara LiftDesigner Datamanager interface. At the top, a window titled 'Car Frames' shows a table with columns: CFT_RID, CFT_DESC, CFT_SUB_DESC, and CF. Below this, a larger table is visible with columns: CFD_RID, CFD_CFT_RID, CFD_IX, CFD_PG_GRP, PG_MAX, CFD_USER_PG_50, CFD_USER_PG_51, and CFD_USER_PG_52. A red box highlights the row with CFD_RID 7500000 and CFD_PG_GRP 7500004. A callout bubble points to this row with the text 'Copied user defined parameter values'. Below the main table, a 'Profile group' dialog box is open, showing a table with columns: PGPROPCI_RID, PGPROPCI_PG_RID, PGPROPCI_IX, PGPROPCI_COMP_DESC, PGPROPCI_COMP_VAL, and PGPROPCI_VAL. A red box highlights the row with PGPROPCI_RID 7500003 and PGPROPCI_COMP_DESC 'Height of bottom car frame...'. A callout bubble points to this row with the text 'Copied dynamic Properties'. At the bottom, a file explorer shows a folder named 'L_ProfilGrpPropConfigItemTab' and a file named 'L_ProfilGrpPropConfigItemEnumTab'.

PL3.5

Summary & custom
Q&A's

SUMMARY
& CUSTOM
Q&A'S



Congratulations

You reached the next level



 digipara[®] liftdesigner



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

training@digipara.com





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