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.



 

# Information

ONLINE 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.



 

# Agenda

PL3.1 Preparation Steps 3D CAD Models

## 3D CAD Models in DigiPara Liftdesigner

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


 

# Agenda

## PL3.2 Static BIM Component: Guide Shoe

### Typical Processes

- in DigiPara Liftdesigner Datamanager
  - Copy a similar BIM Component
  - Edit the Meta Data
- 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
  - Save the BIM Component back into the BIM Library

# Agenda

## 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


 

# Agenda

## 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

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# PL3.1

## 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

Autodesk Inventor
iam, ipt

SolidWorks
sldasm, sldprt

STEP Files
stp, step, stpz

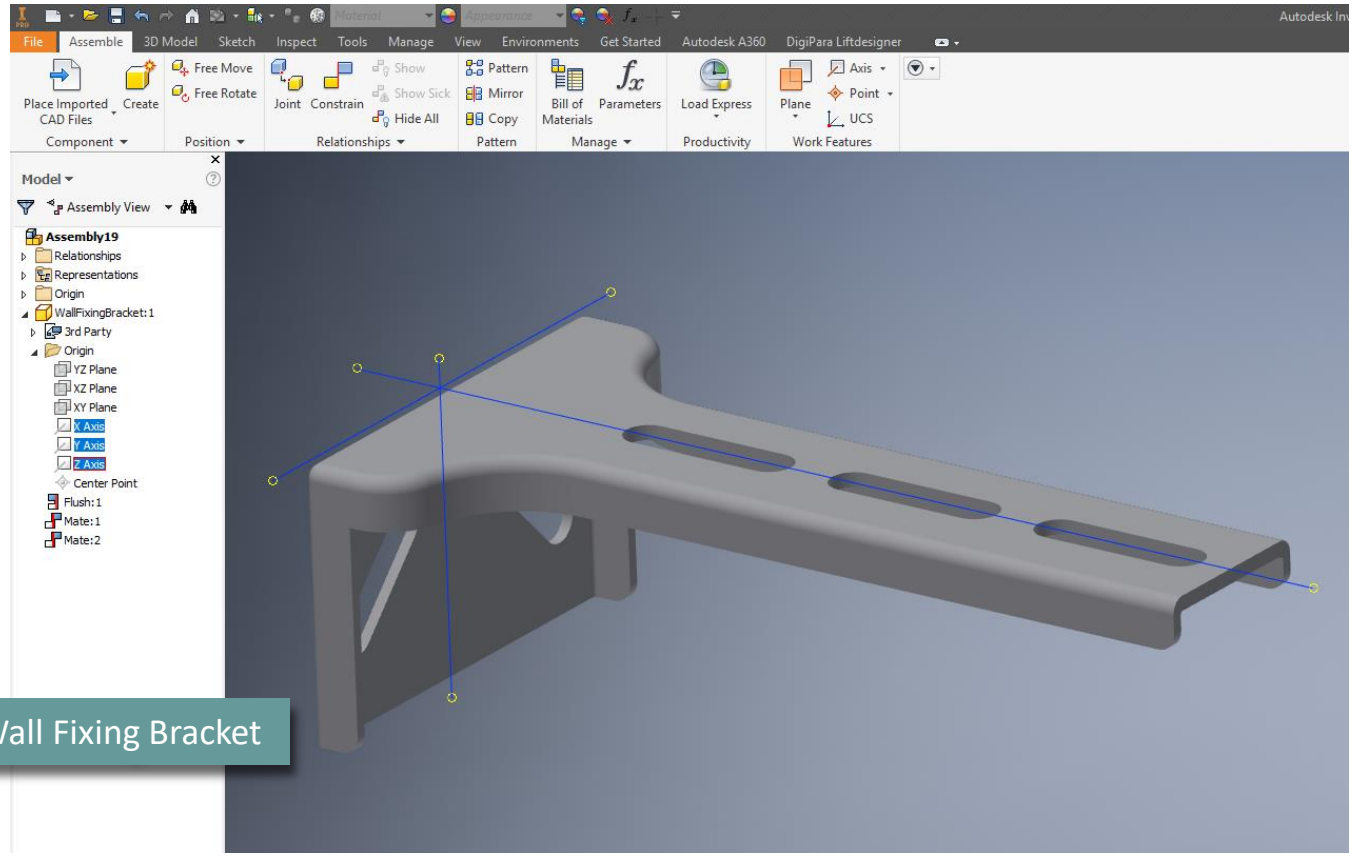
# Original CAD Base Point

# 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



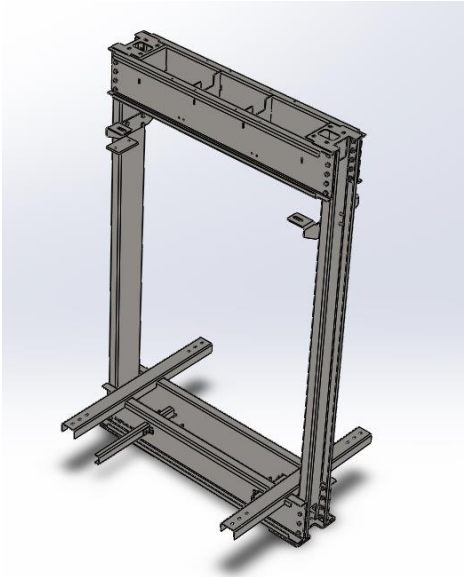
 

# Benefit of splitting CAD Models

# Benefit of splitting CAD Models



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.



Will be a static BIM Component in DigiPara Liftdesigner

The position of these individual assemblies can be adapted to the respective DigiPara Liftdesigner cabin size.



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# PL3.2

## Static BIM Component: Guide Shoe

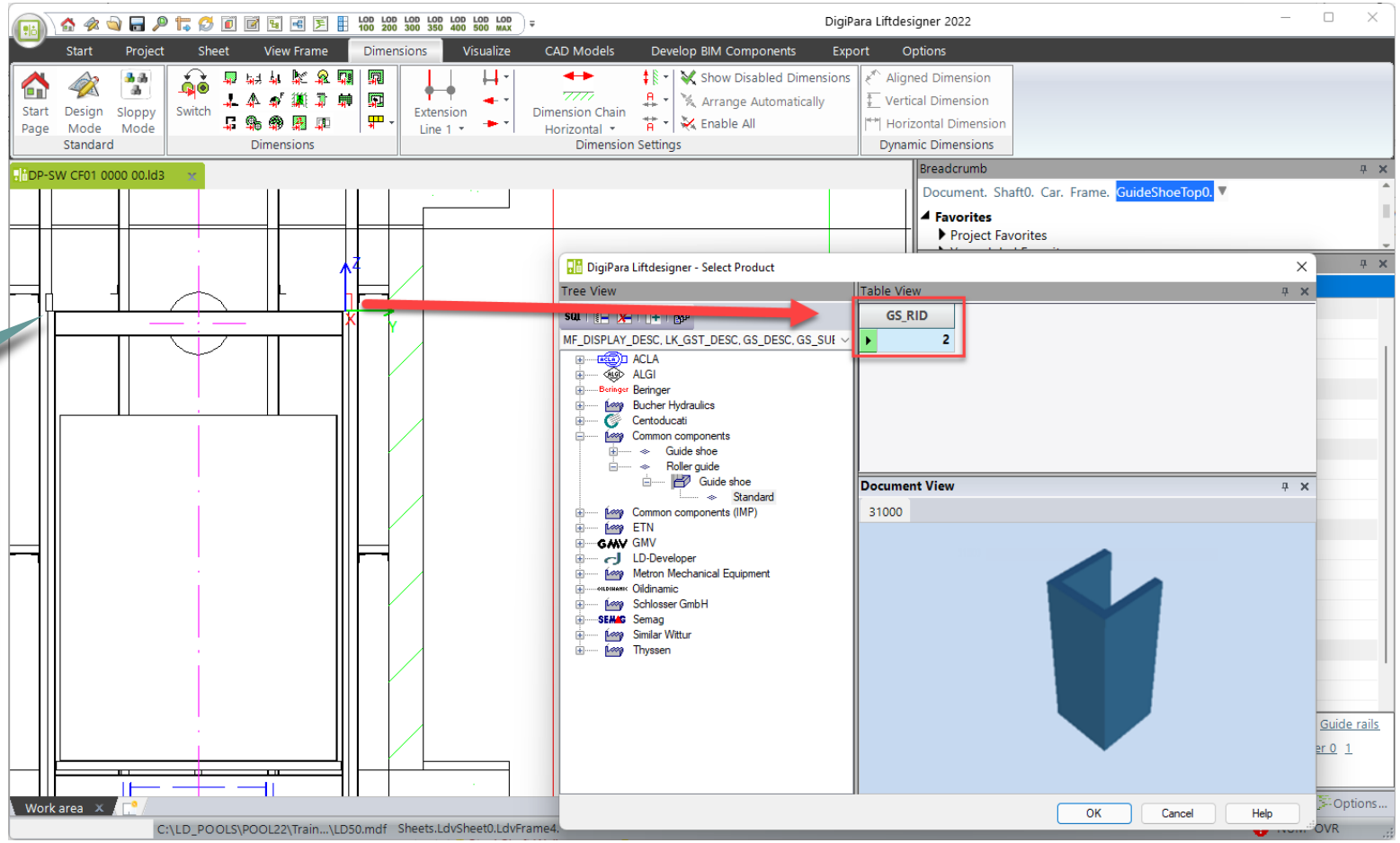
# Copy a similar BIM Component

# 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.

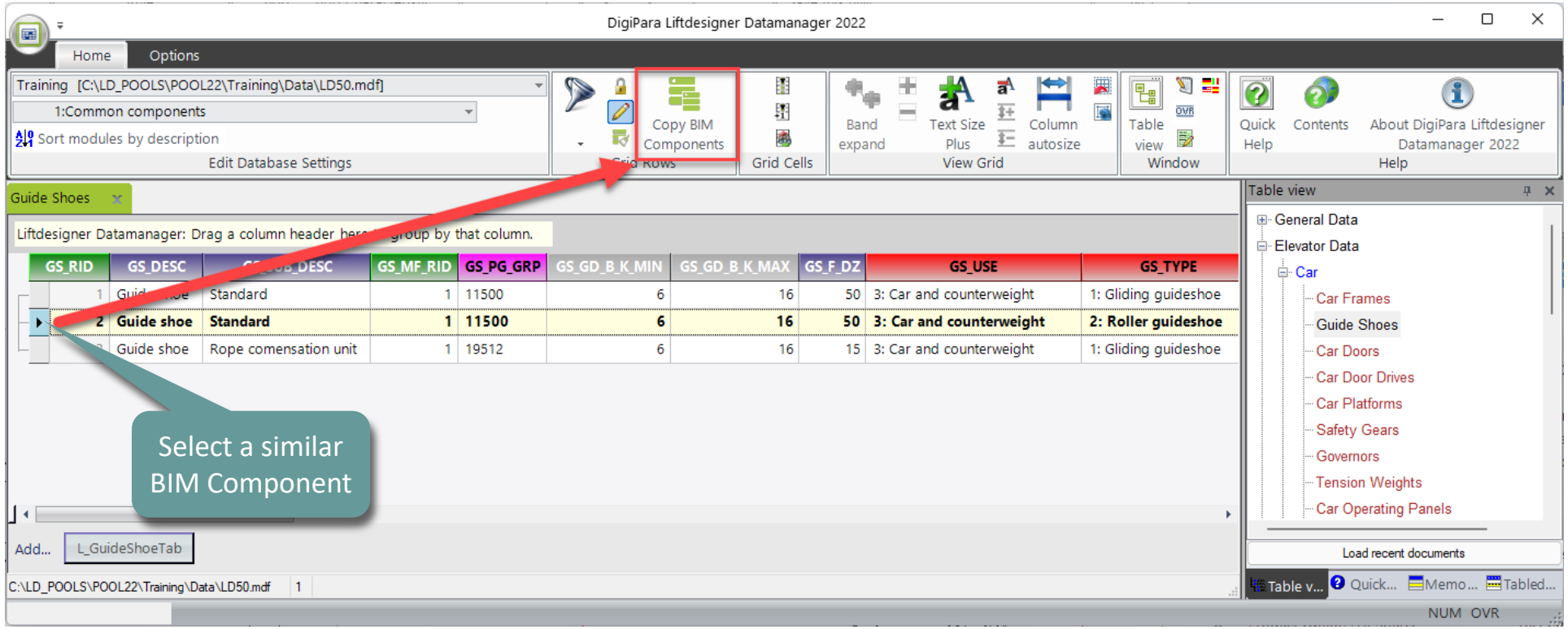
Guide shoe is a sliding part between elevator guide rail and car, what we call it guide shoe. It can fix the car on the guide rail and make car running up and down.



# Copy a similar BIM Component

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

- ... in DigiPara Liftdesigner Datamanager

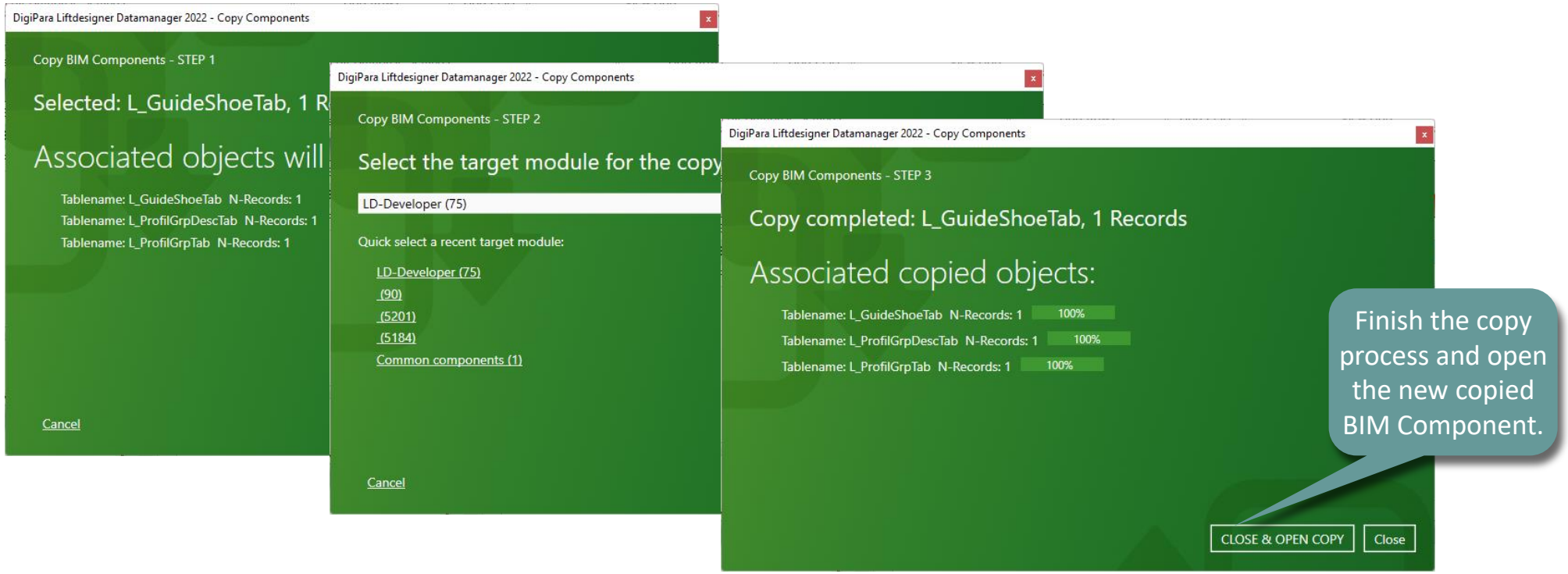


# Copy a similar BIM Component

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.



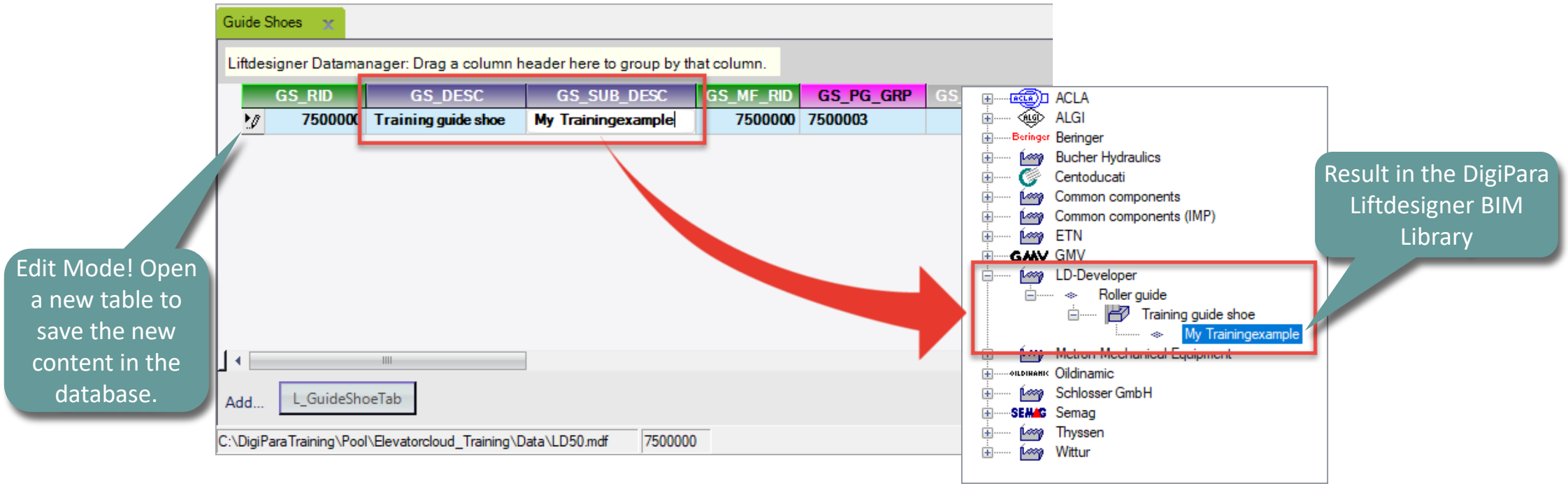
# Edit the Meta Data

# 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 Liftdesigner Datamanager

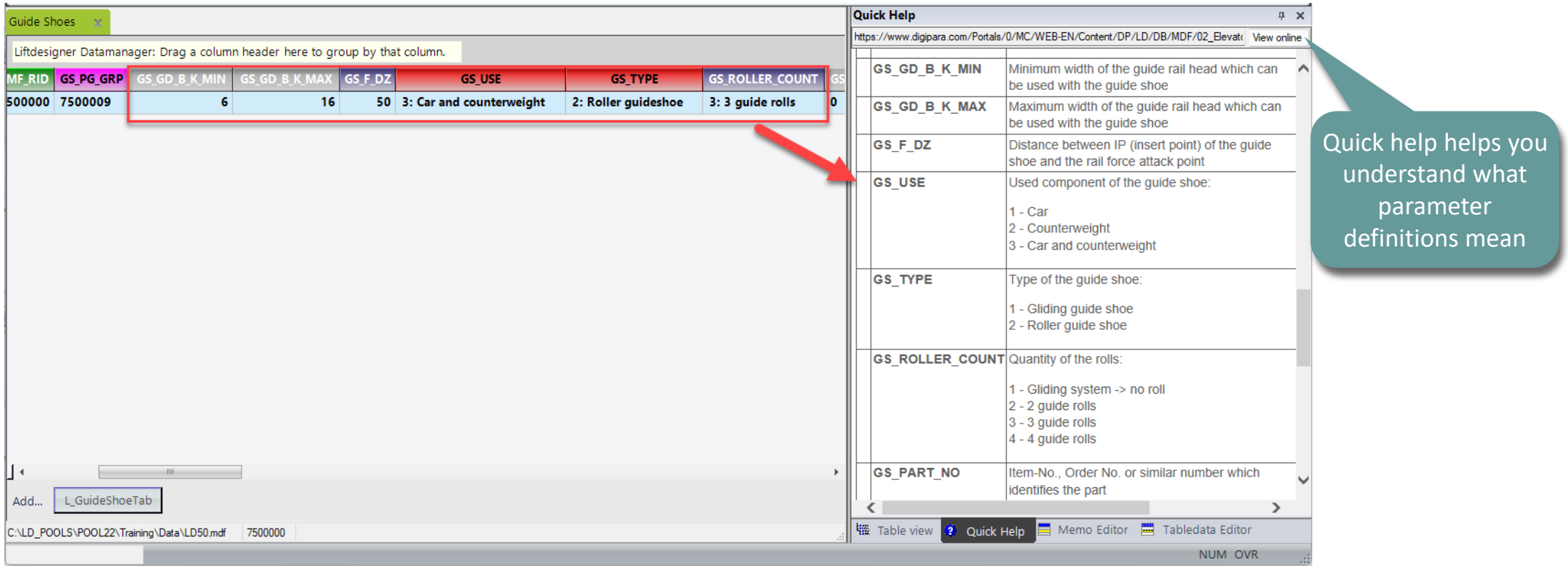


# Edit the Meta Data

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

## Parameters

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

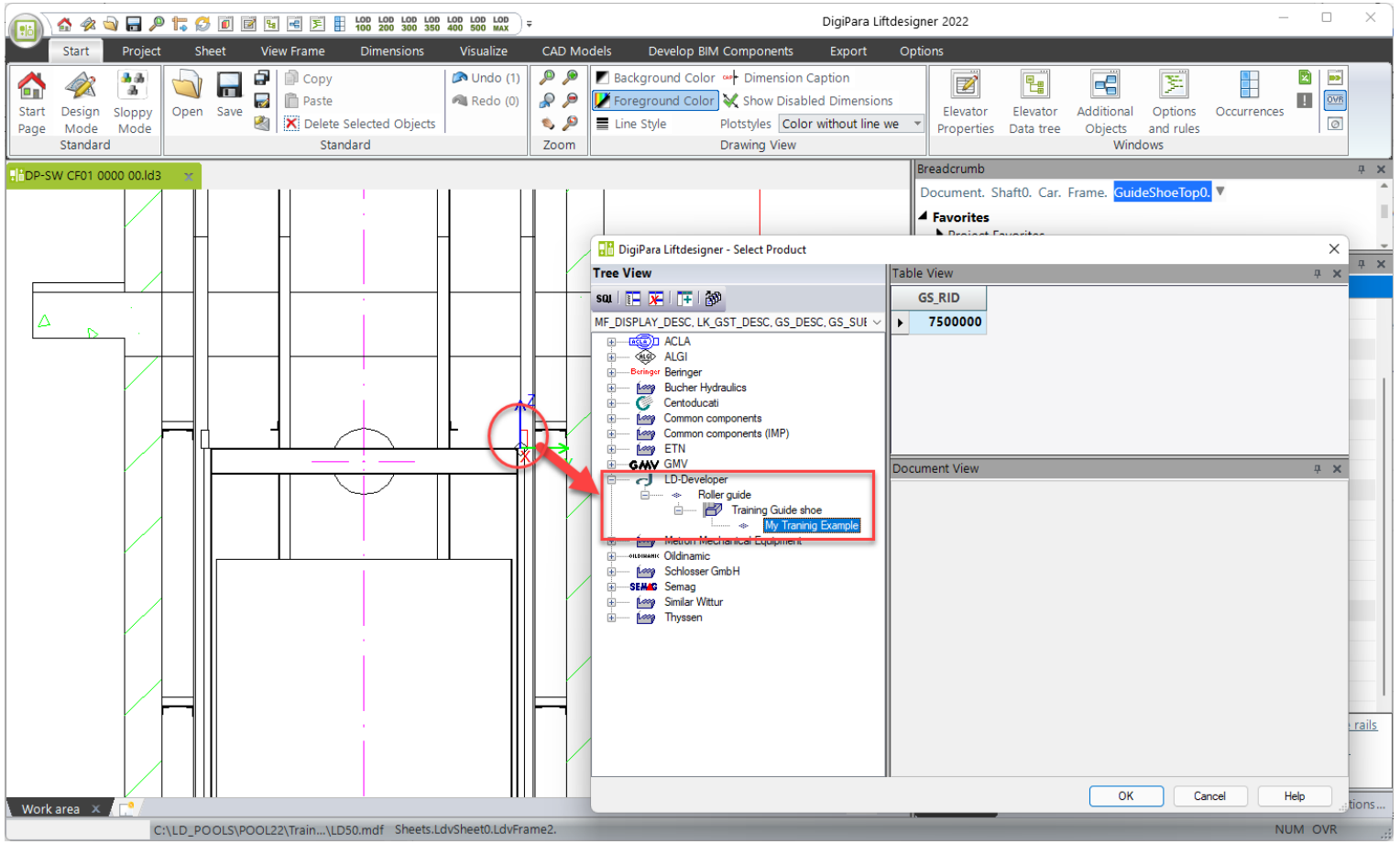


# Load your edited BIM Component

# Load your edited BIM Component

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

- … in DigiPara Liftdesigner



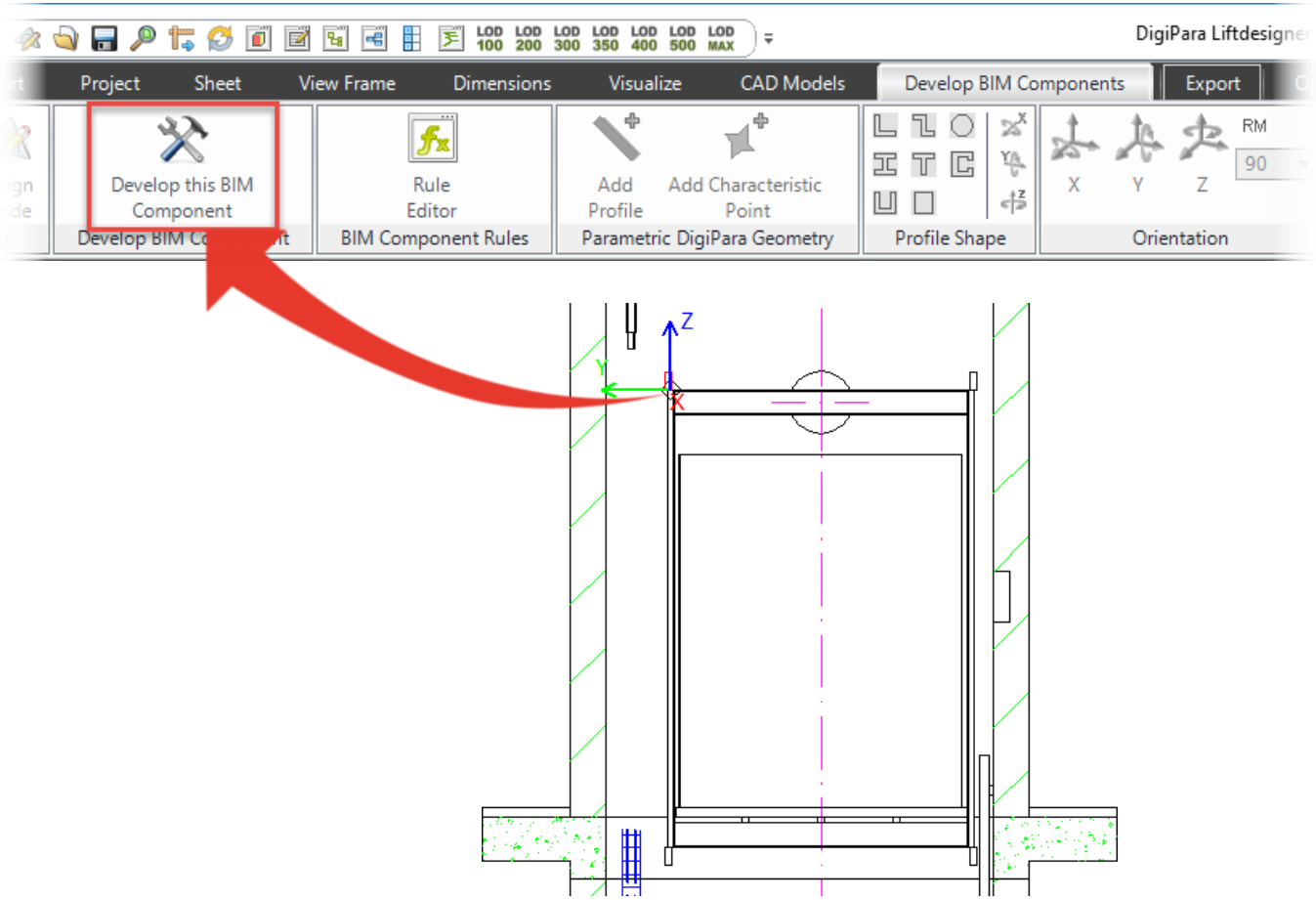
# Load the Developer Work Area

# Load the Developer Work Area

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

- … in DigiPara Liftdesigner via the BIM Component

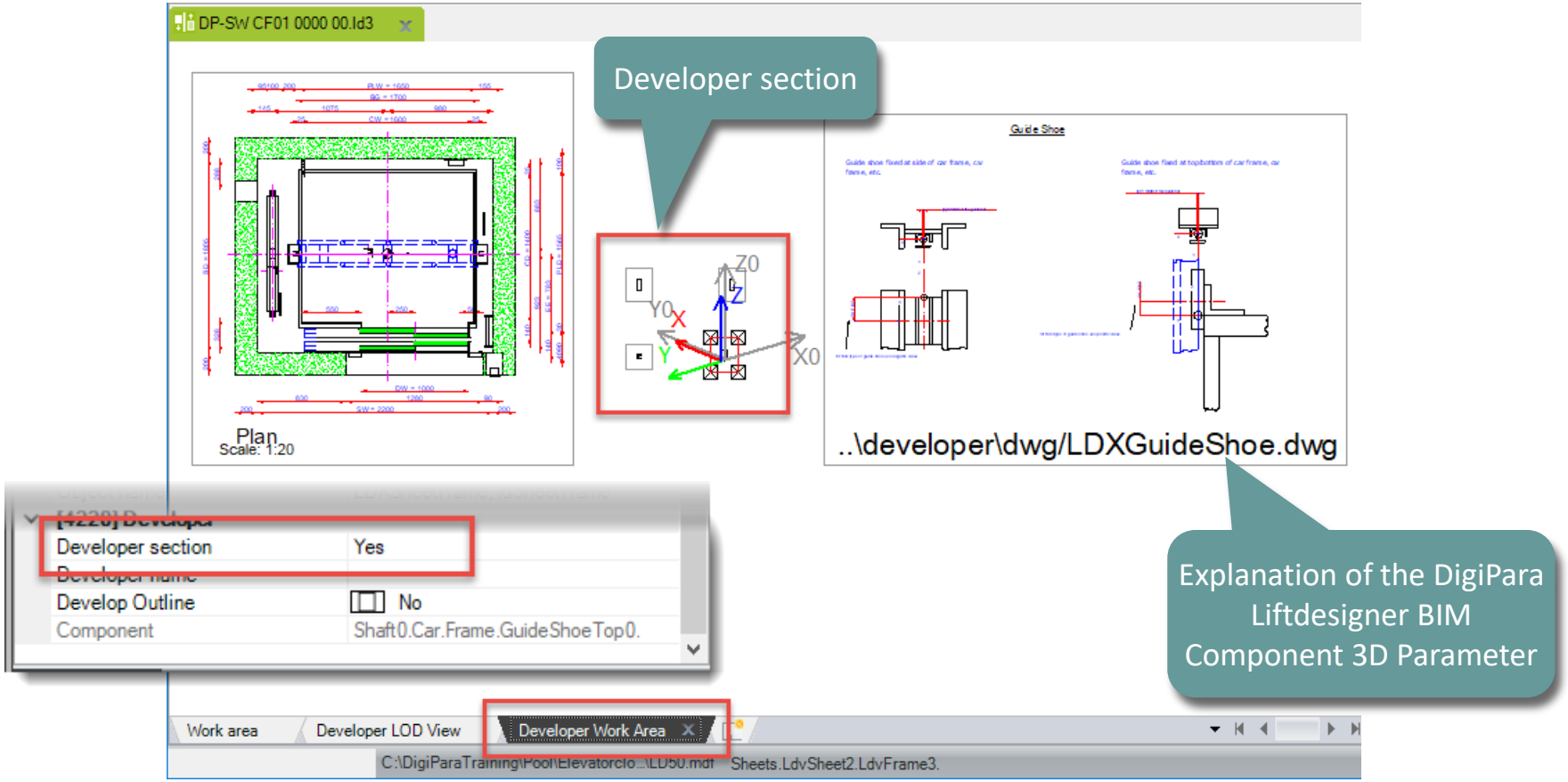
Select the corresponding BIM Component in an existing view frame and click on the button: Develop this BIM Component



# Load the Developer Work Area

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

## Working in the Developer Work Area



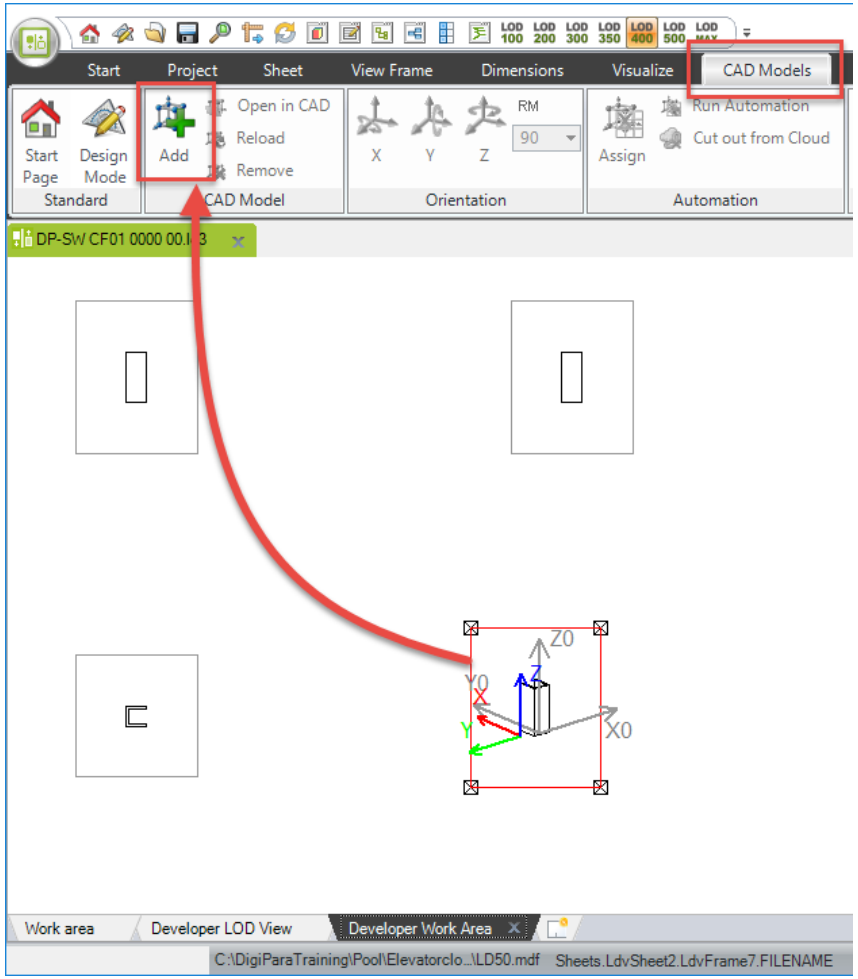
✓ Add, align and position your CAD Models

# 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





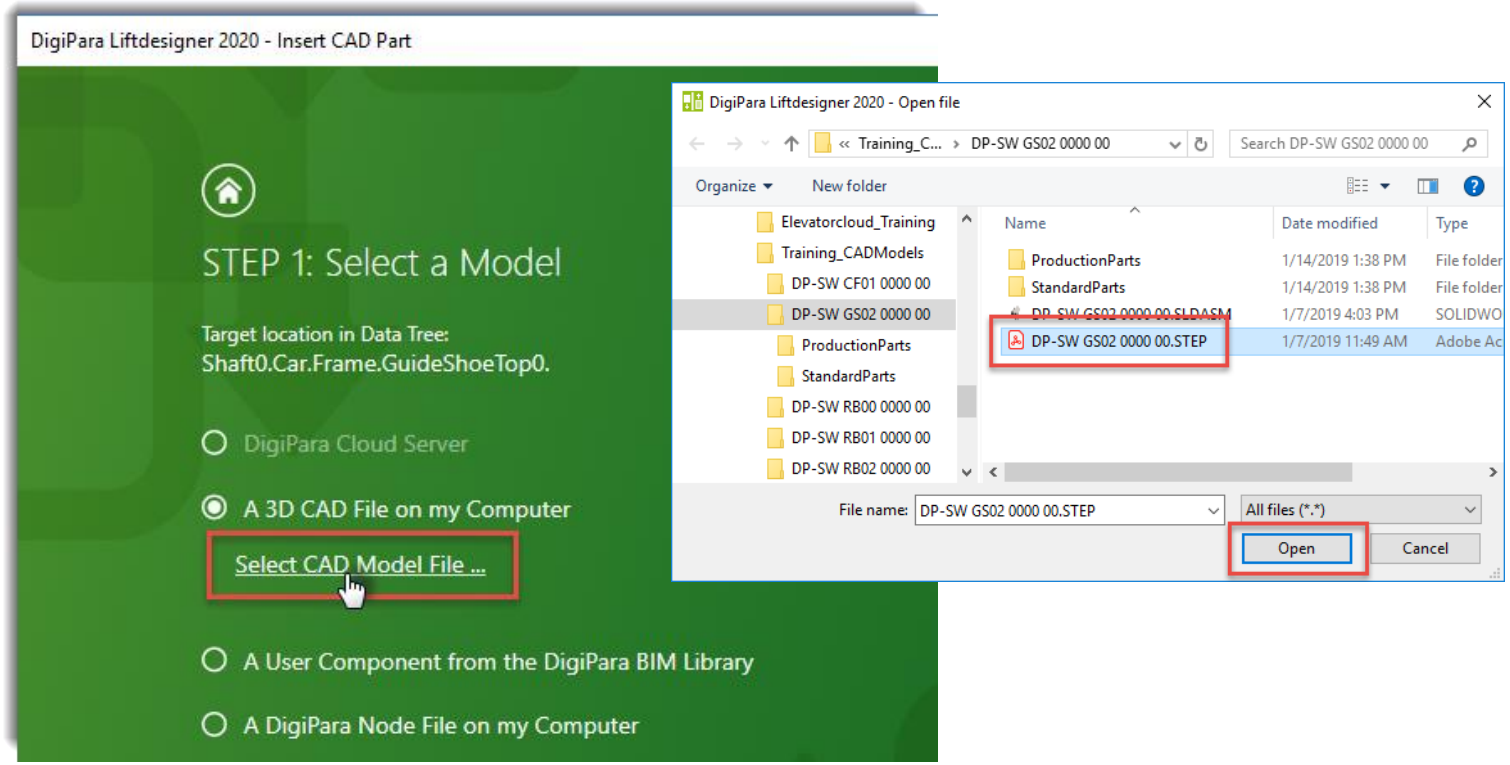

 

# Add, align and position your CAD Models

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

## Add your CAD Model

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

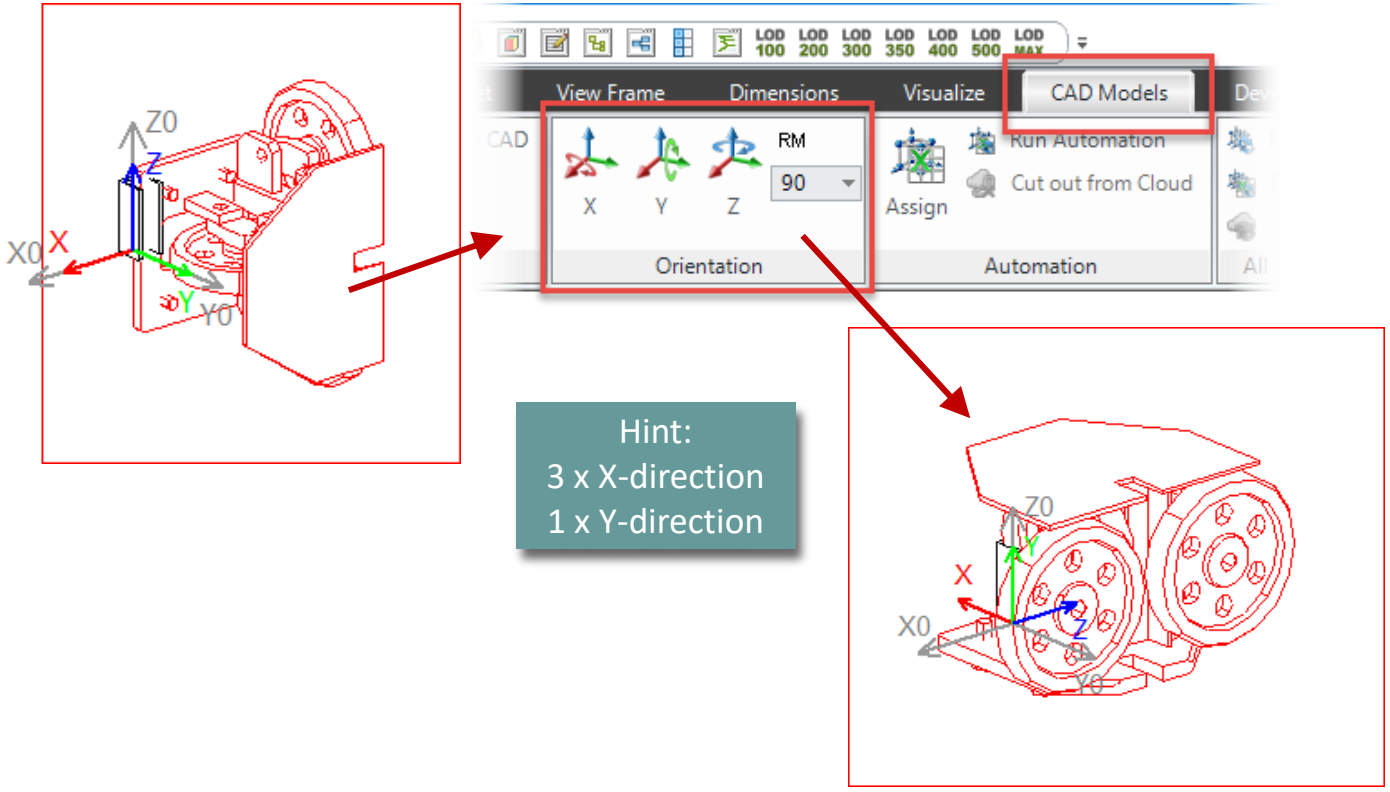


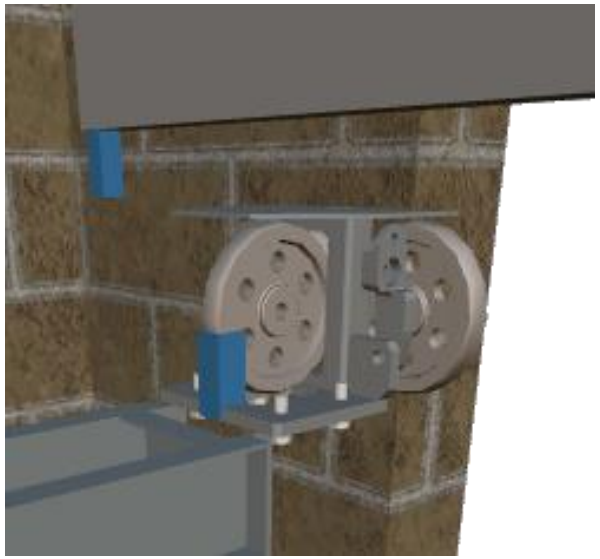
# Add, align and position your CAD Models

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

## Align your CAD Model

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



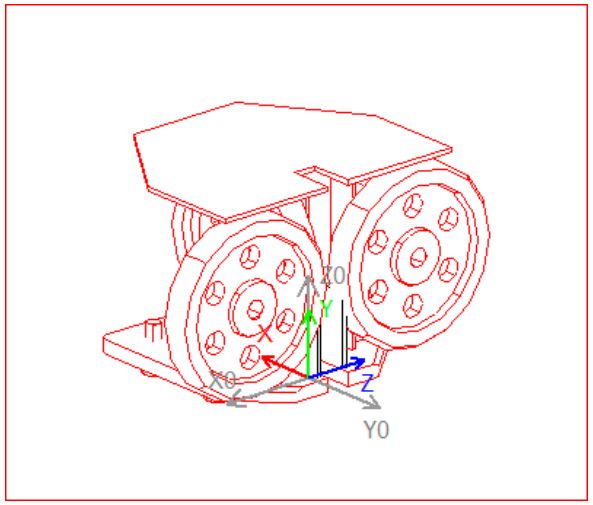
# Add, align and position your CAD Models

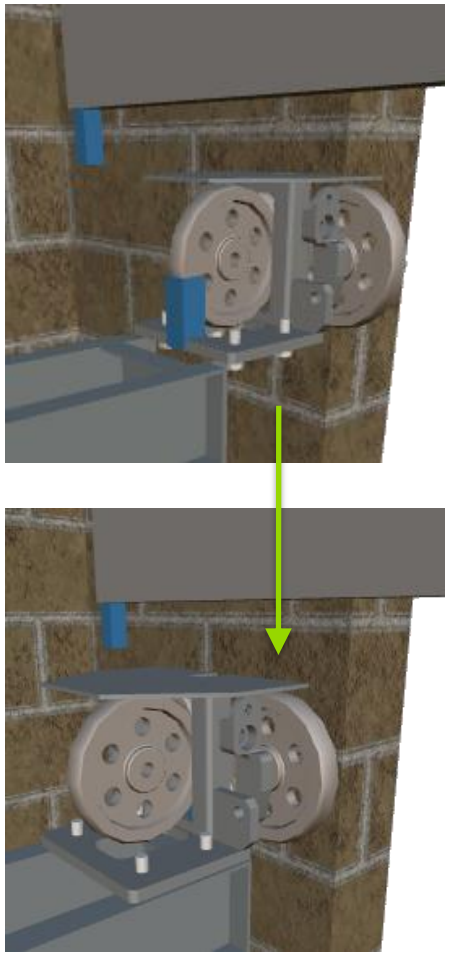
PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

## Position your CAD Model

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

| | |
|---|---|
| Y0 [mm] = 0 | 0 |
| Z0 [mm] = 0 | 0 |
| **[0082] CAD Model Display File** | |
| Display CAD Filename | D:\TFS_Training\Training\LD\Training_ |
| Stored Display CAD Filename | ..\DP-SW GS02 0000 00\DP-SW GS02 |
| Overall Scale Rule (Scale=1) | 1 |
| User Defined Base Point | Yes |
| Base Point Offset X [mm] = -195 | -195 |
| Base Point Offset Y [mm] = 0 | 0 |
| Base Point Offset Z [mm] = 0 | 0 |
| Geometry Information | 0.11 MB, 20 Bodies, 7491 Polygons |
| Embed a Geometry Copy | Yes (embedded) |





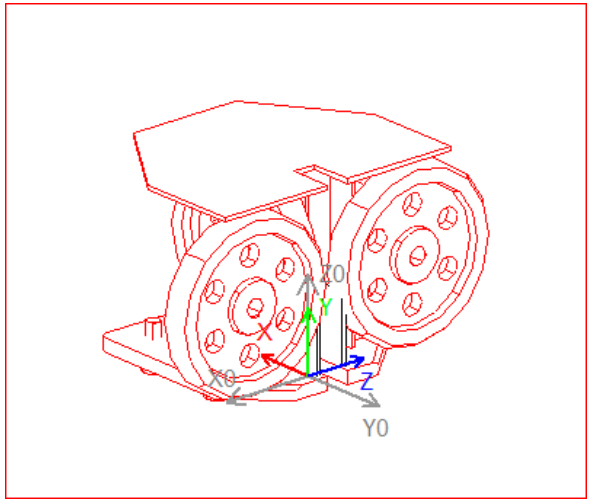
 

# Add, align and position your CAD Models

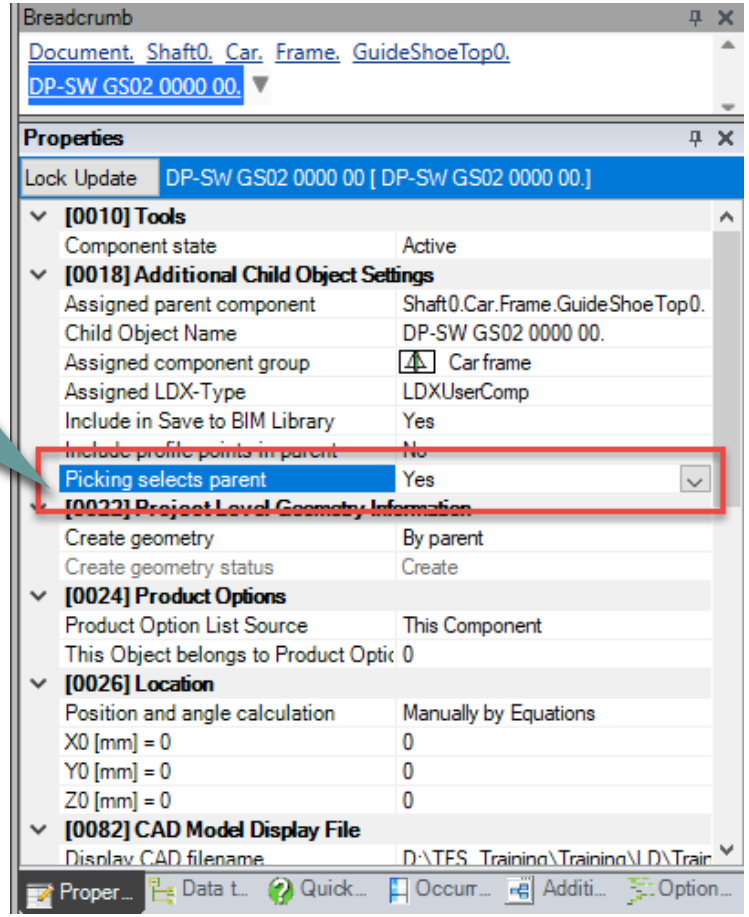
PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

## CAD Model setting: Picking selects parent

- Picking selects parent: YES




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

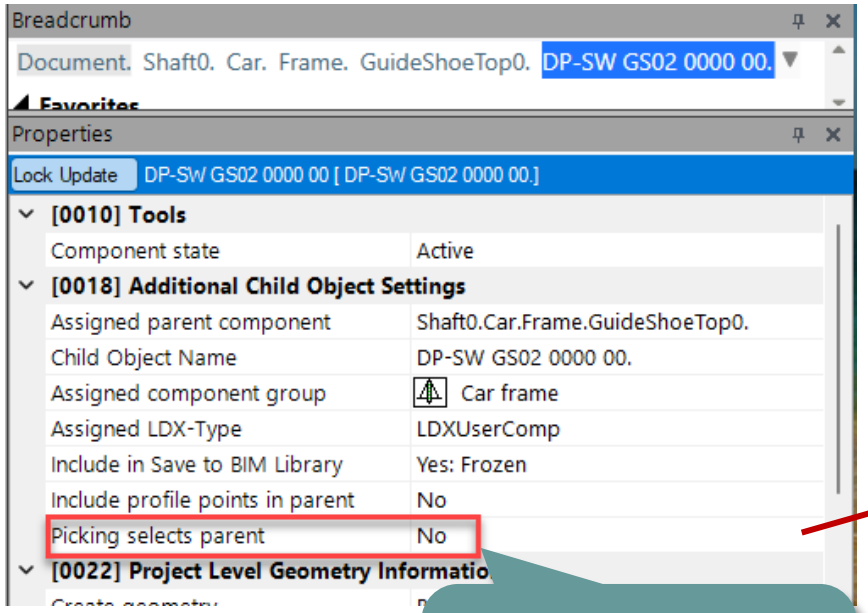


# Add, align and position your CAD Models

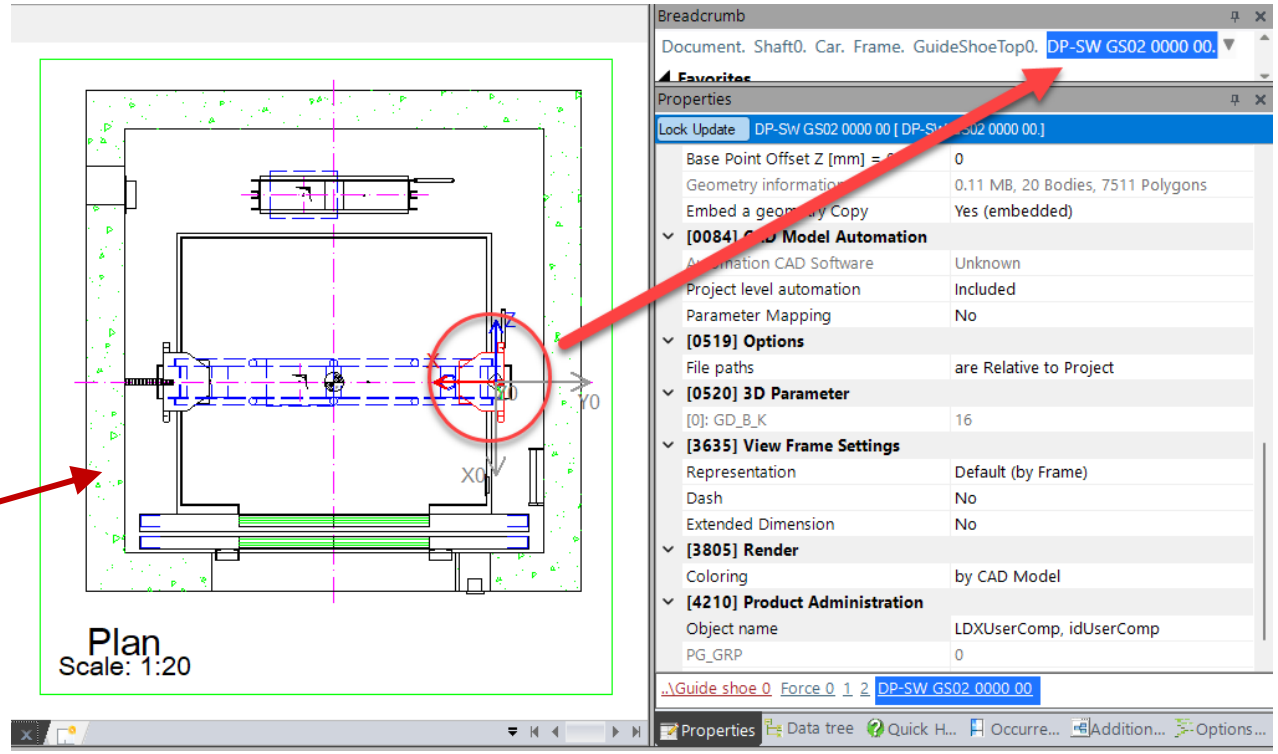
PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

## CAD Model setting: Picking selects parent

- Picking selects parent: NO (not recommended)




If this option is set to no, you cannot directly select the parent BIM component in the view frames

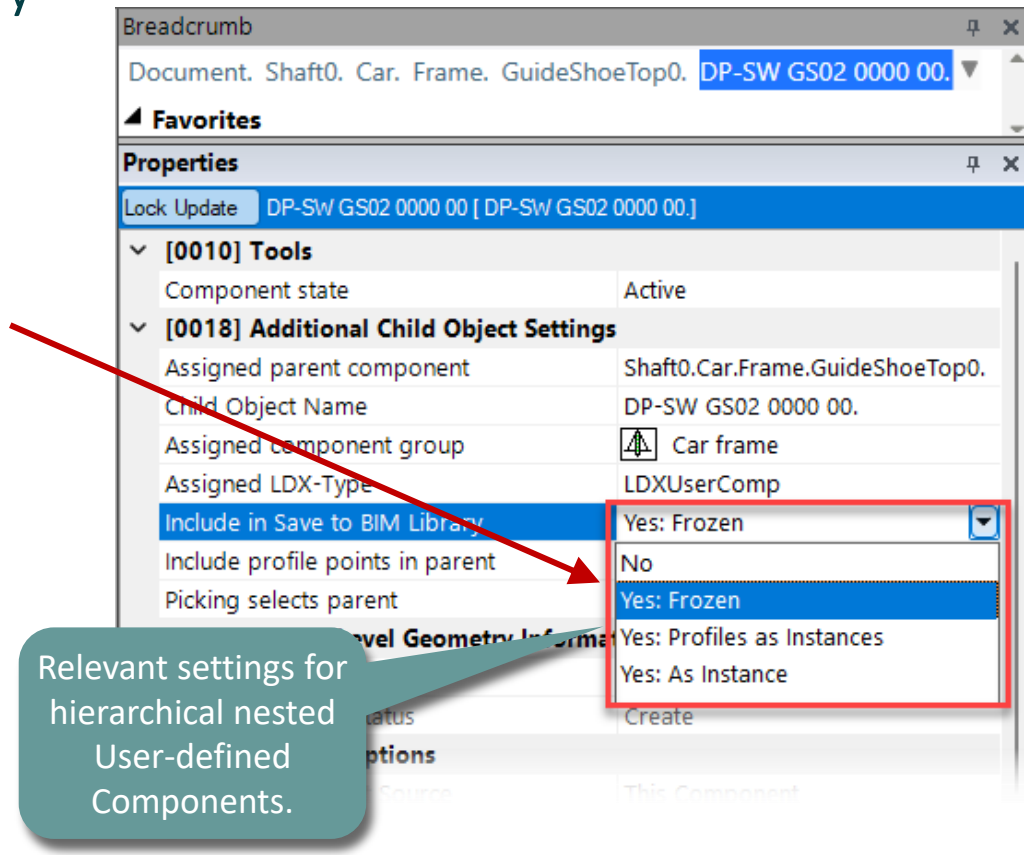


# Add, align and position your CAD Models

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)





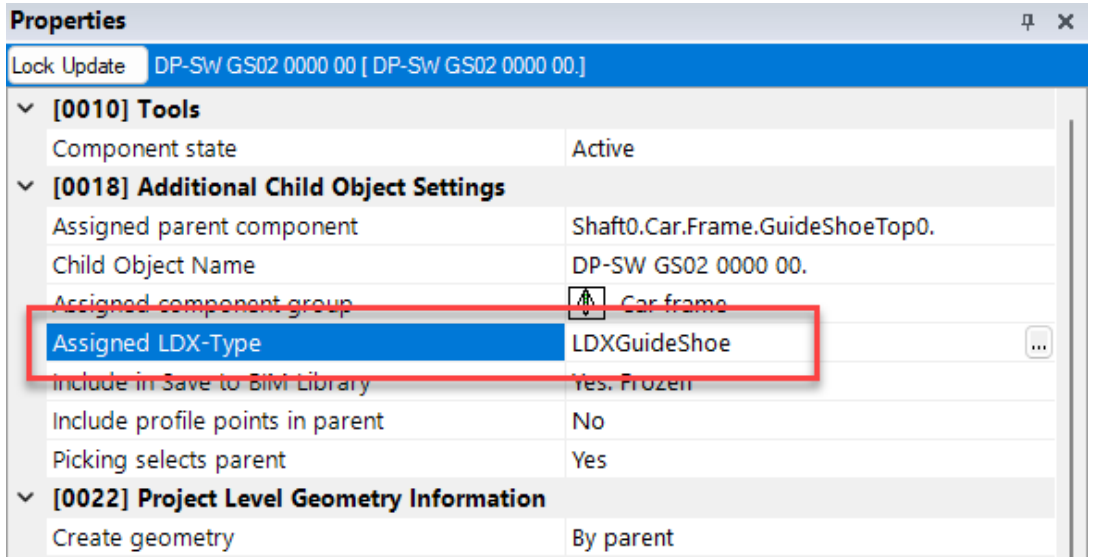

 

# USER Component / CAD Model Settings

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





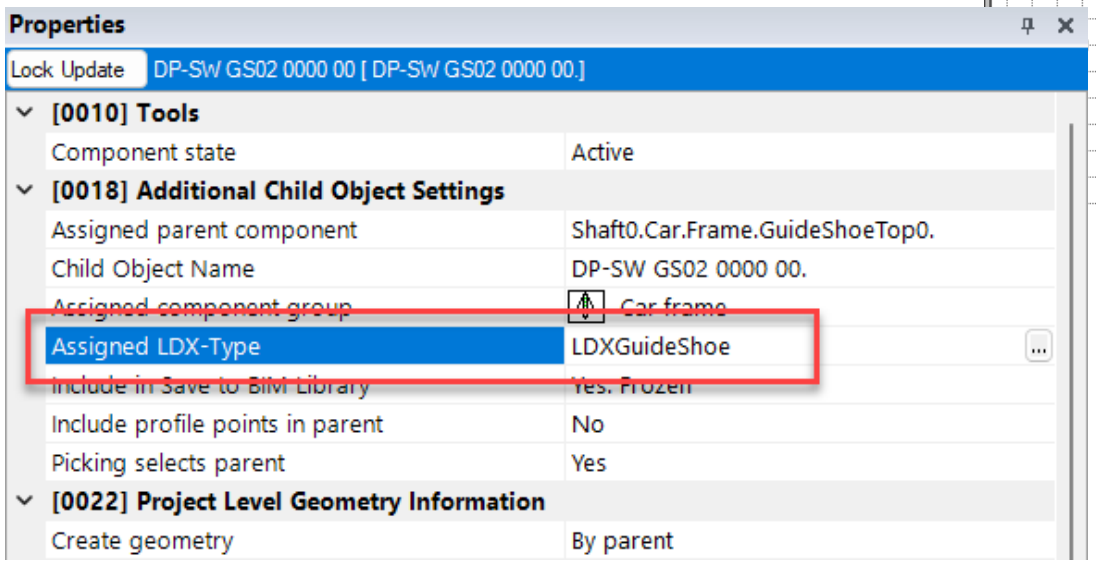

 

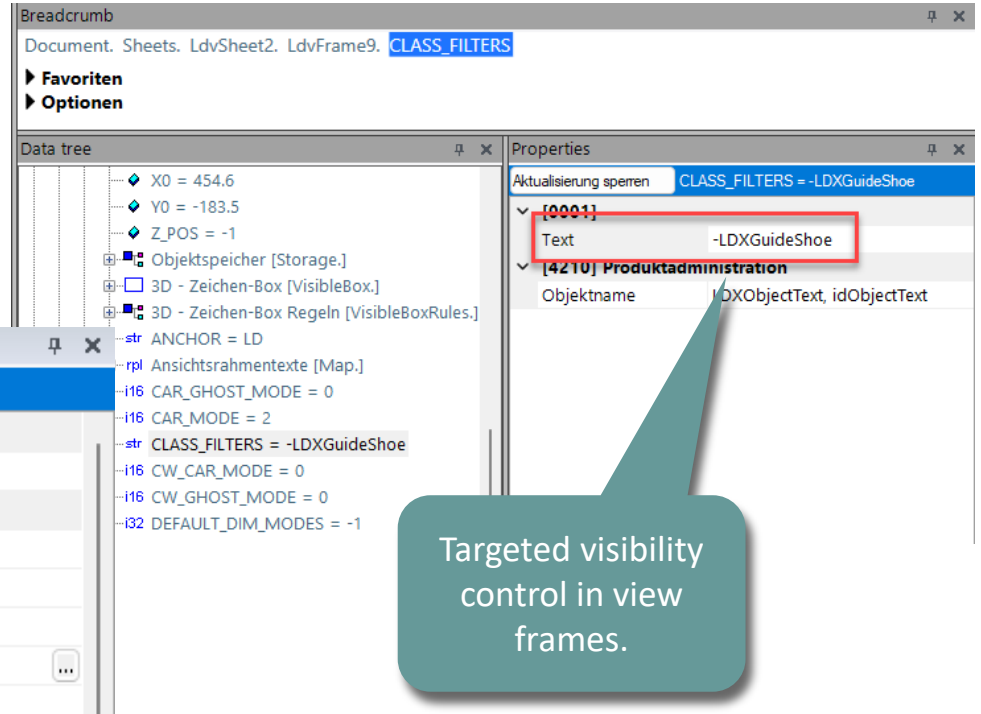
# USER Component / CAD Model Settings

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

## Assigned LDX-Type

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



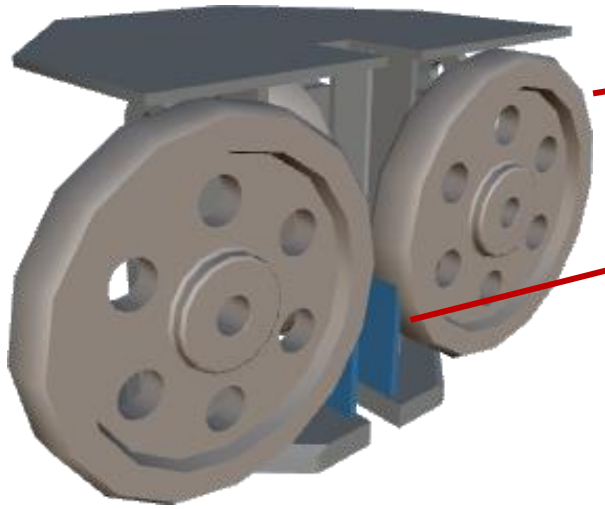
# Delete unneeded profiles

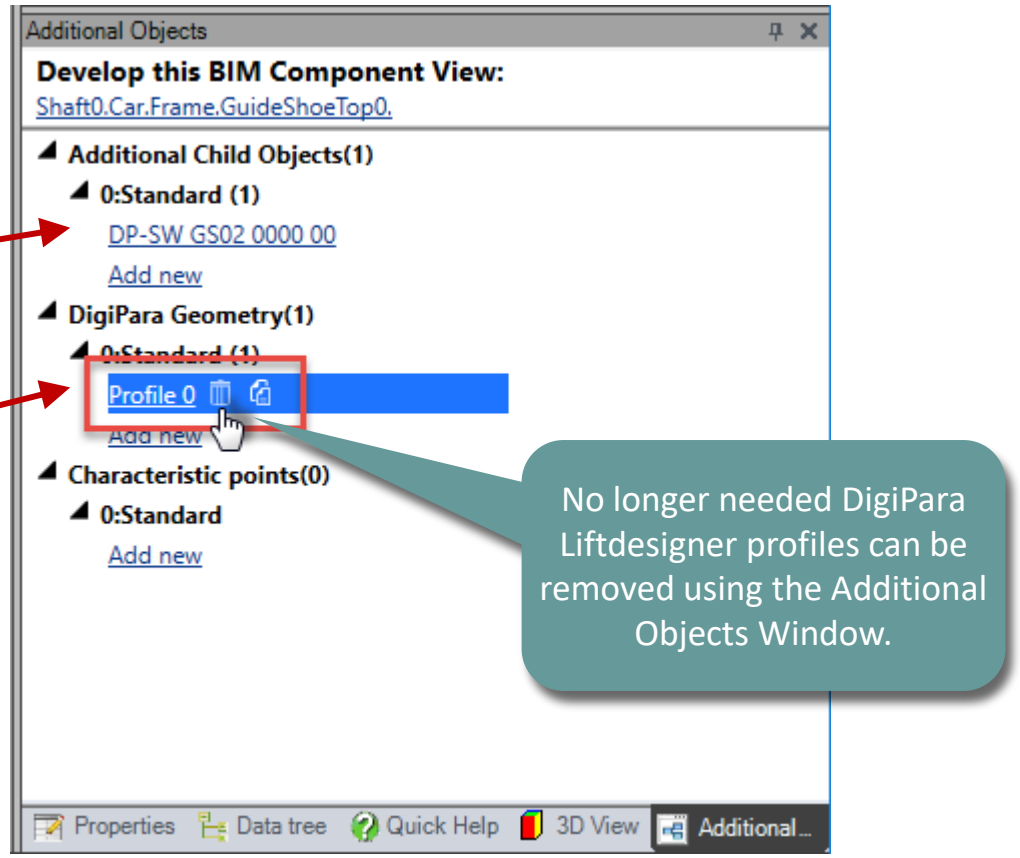
# Delete unneeded DigiPara Liftdesigner profiles

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

## Delete unneeded DigiPara Liftdesigner Profiles

- … via the Additional Objects window



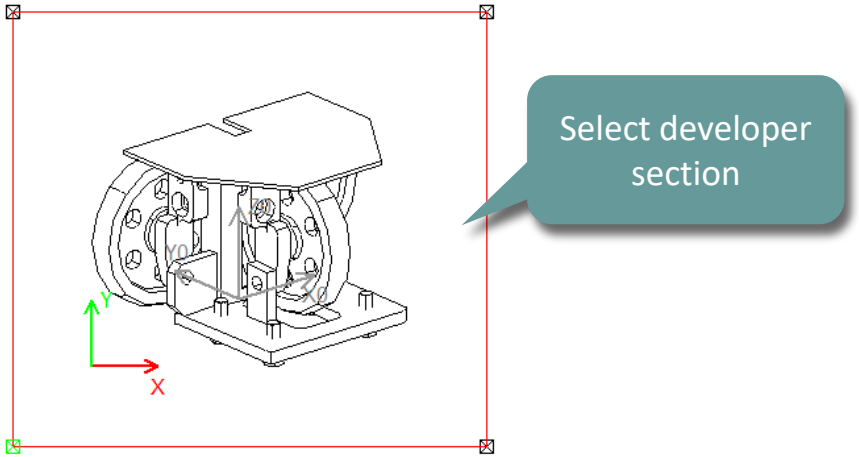


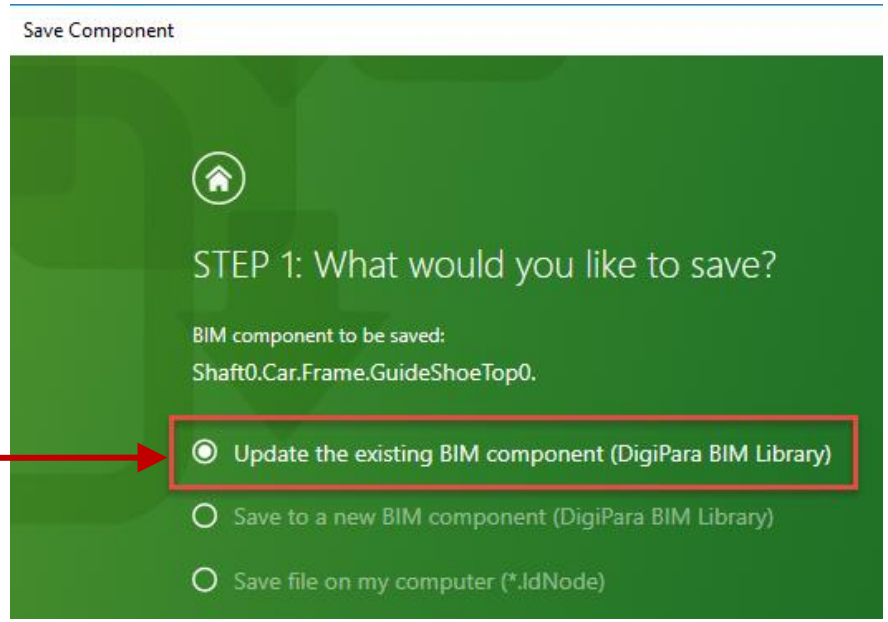
Save the BIM Component back into the BIM Library

# Save the BIM Component back into the Library

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

## Save the finished defined BIM Component



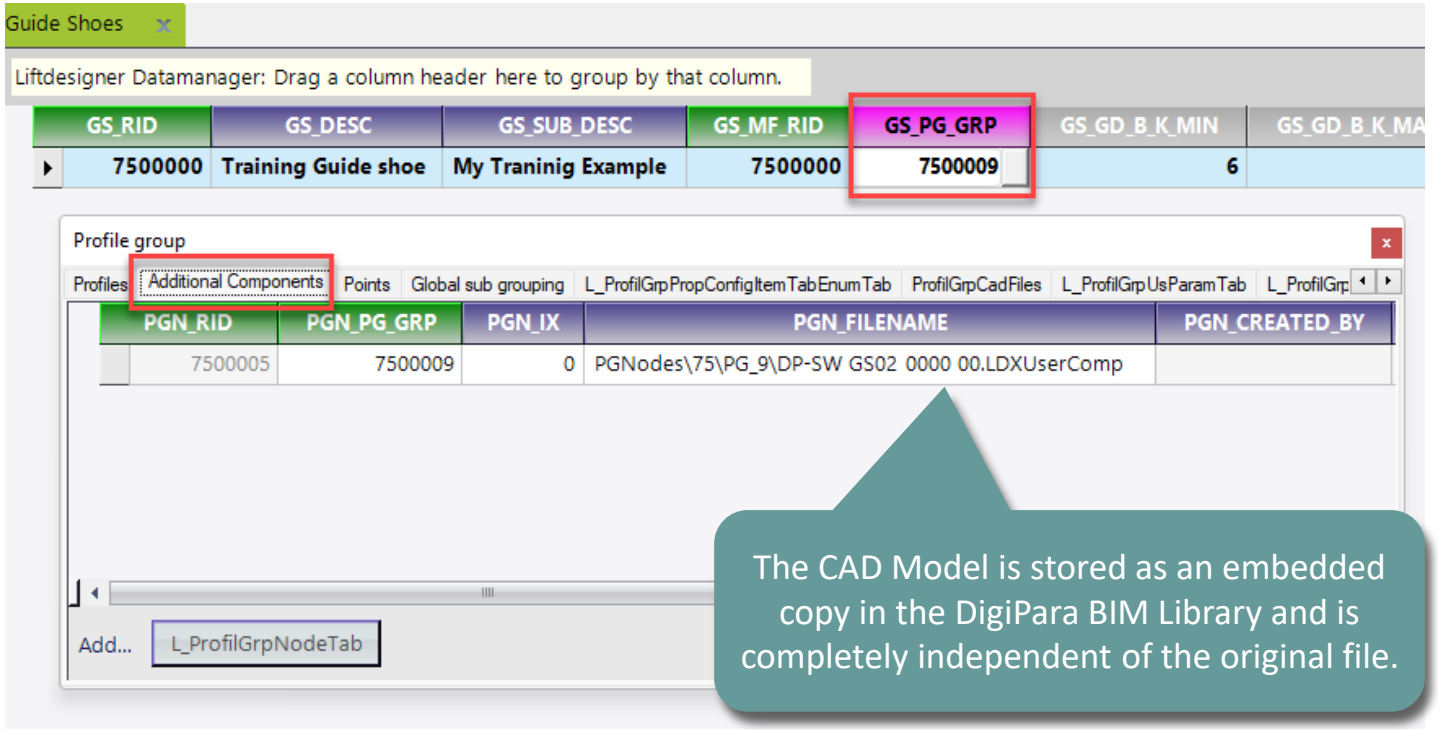



# Save the BIM Component back into the Library

PL3.2 STATIC BIM COMPONENT: GUIDE SHOE

## Additional Components

- … in DigiPara Liftdesigner Datamanager





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# Let's have a break!

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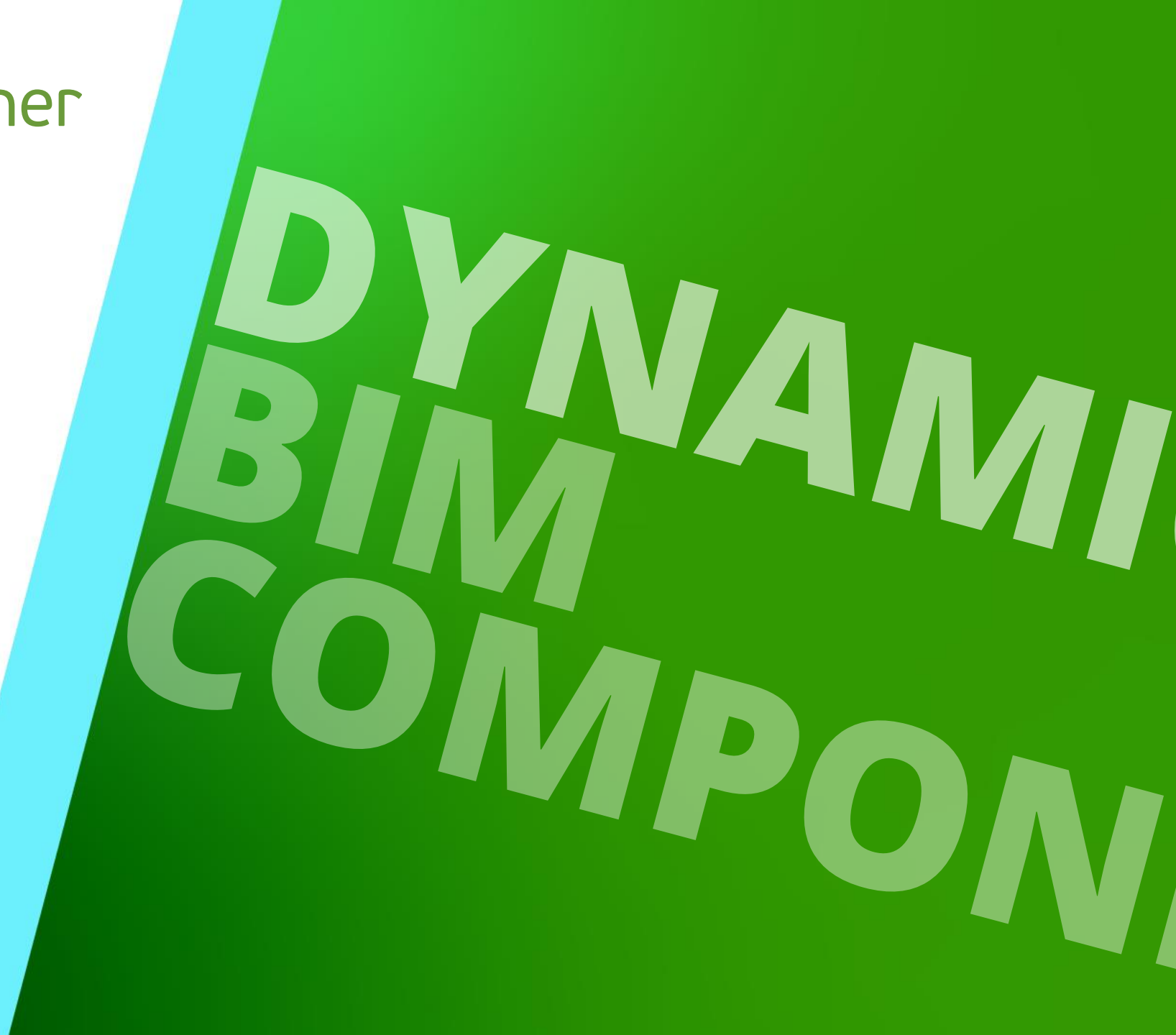
# PL3.3

## Dynamic BIM Component: Car Frame

## Typical Processes

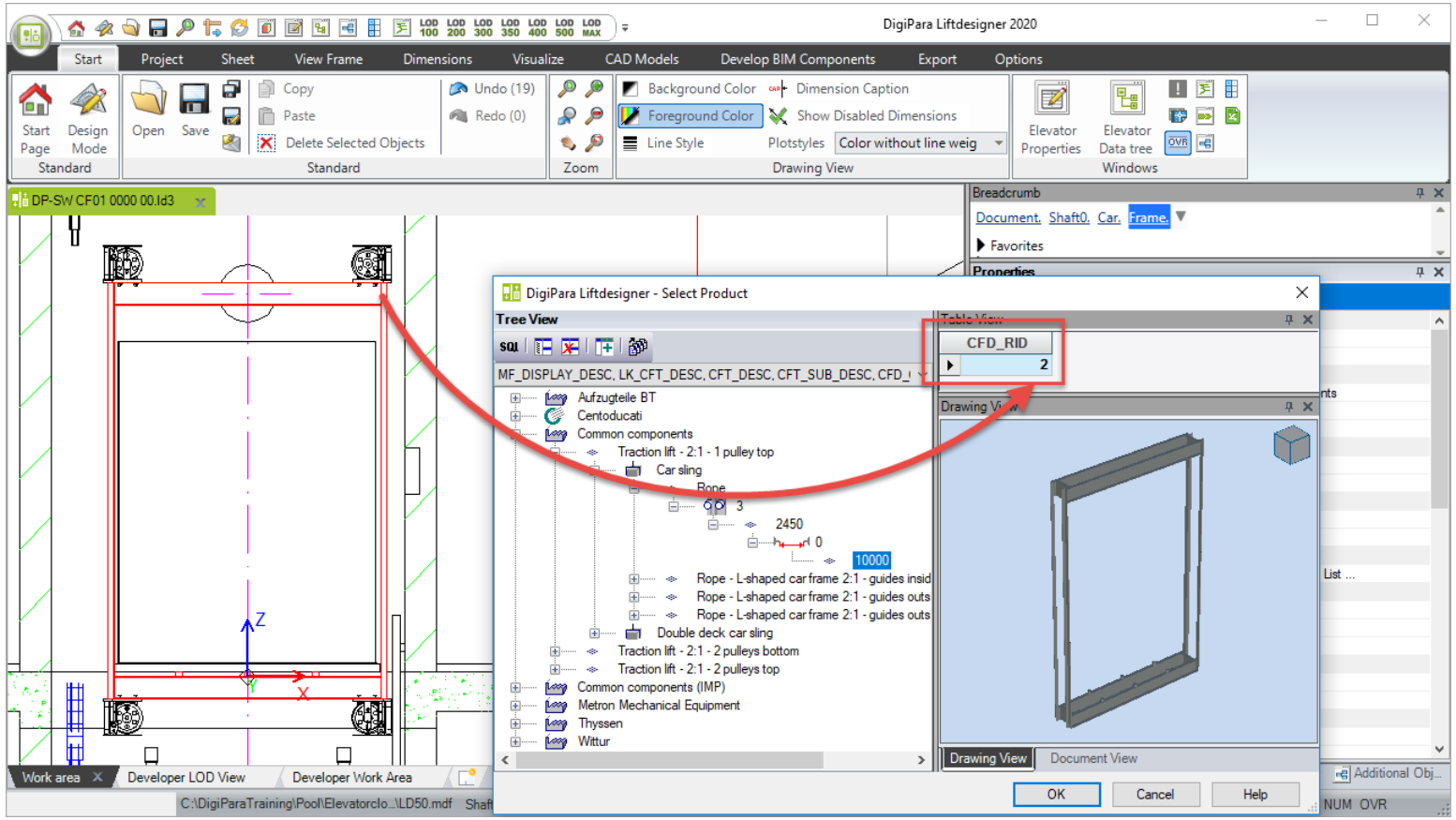


# Copy a similar BIM Component

# 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

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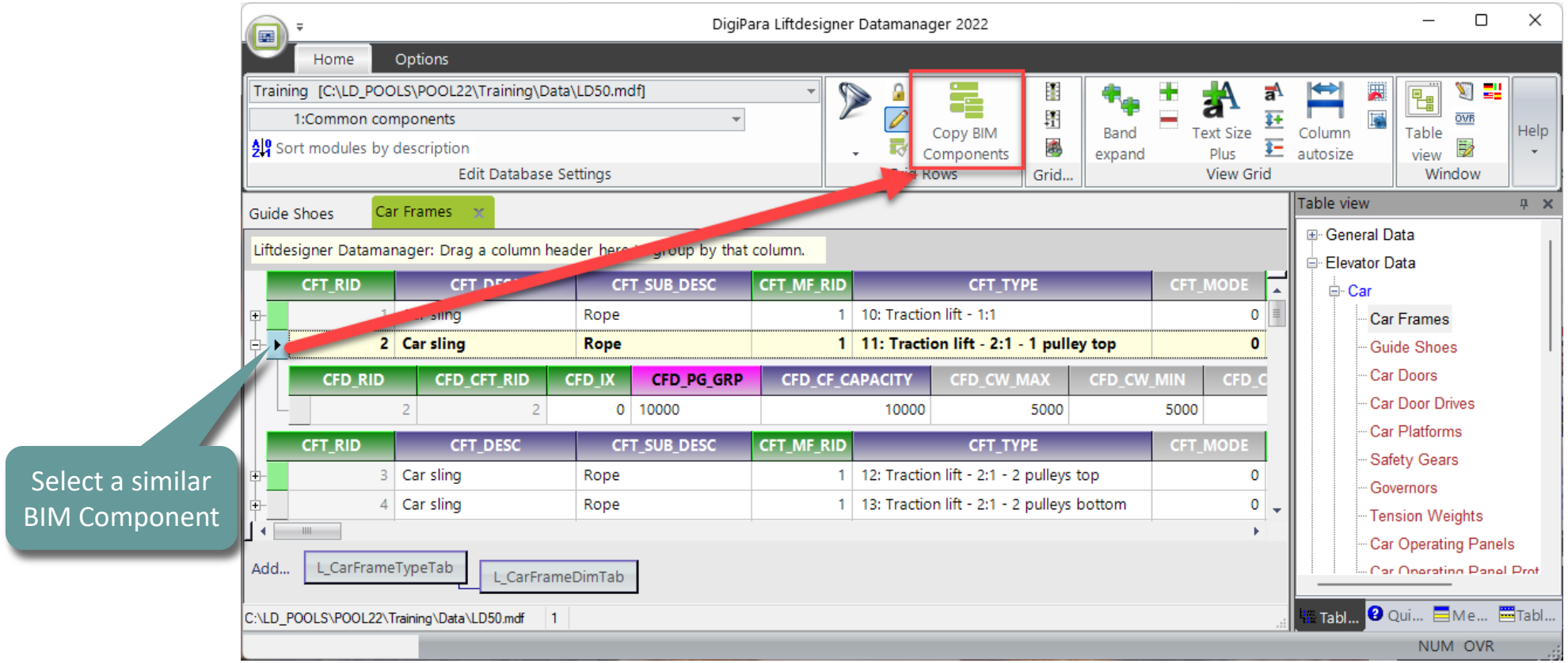
- … in DigiPara Liftdesigner Datamanager

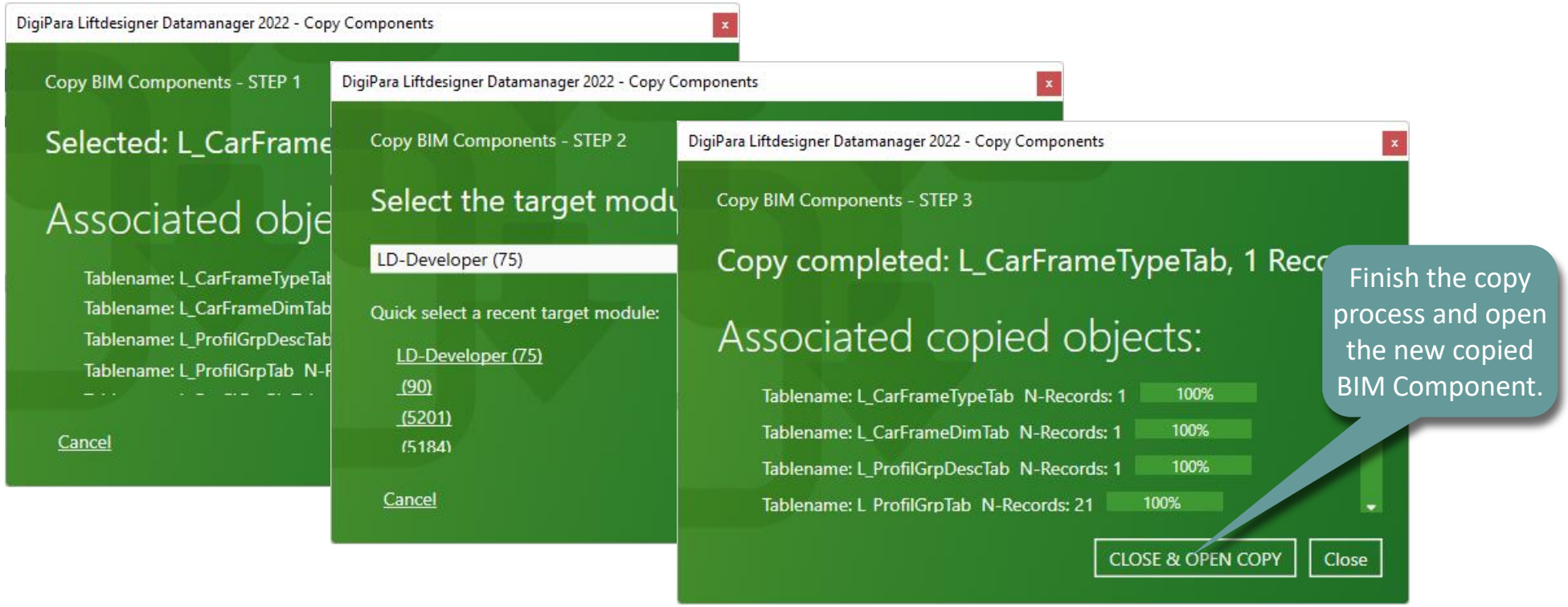


# Copy a similar BIM Component

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.



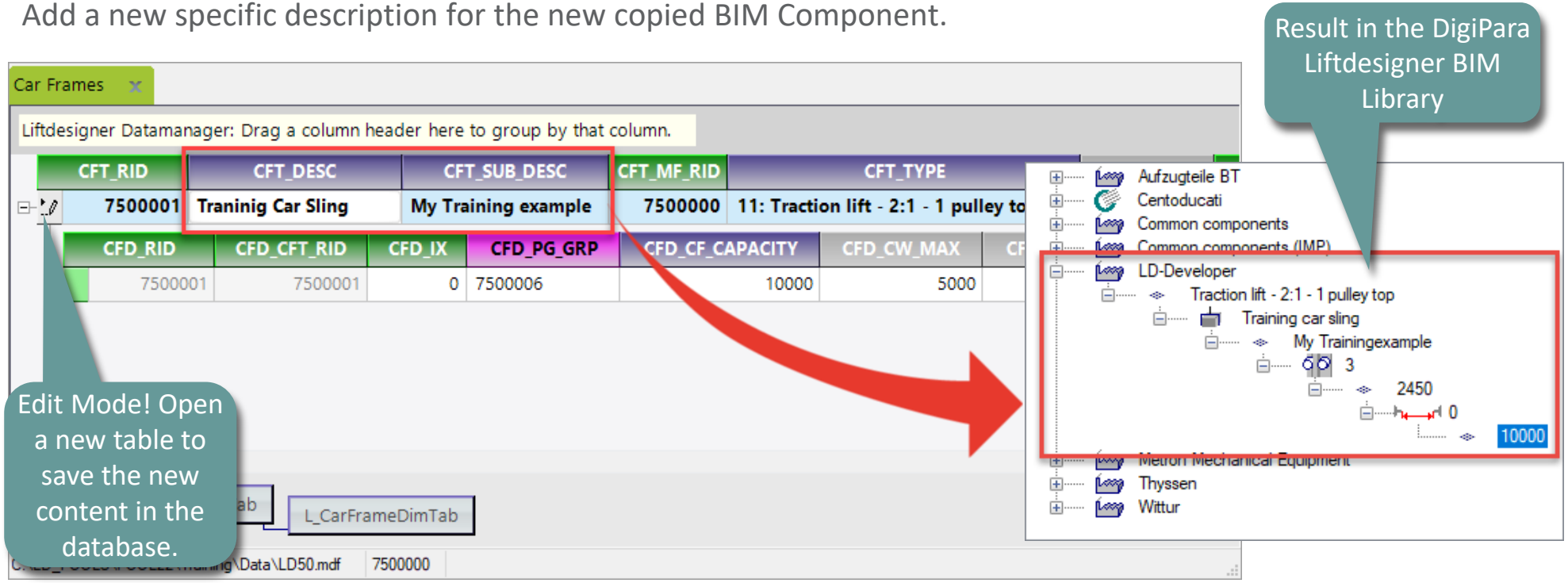
# Edit the Meta Data

# 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.

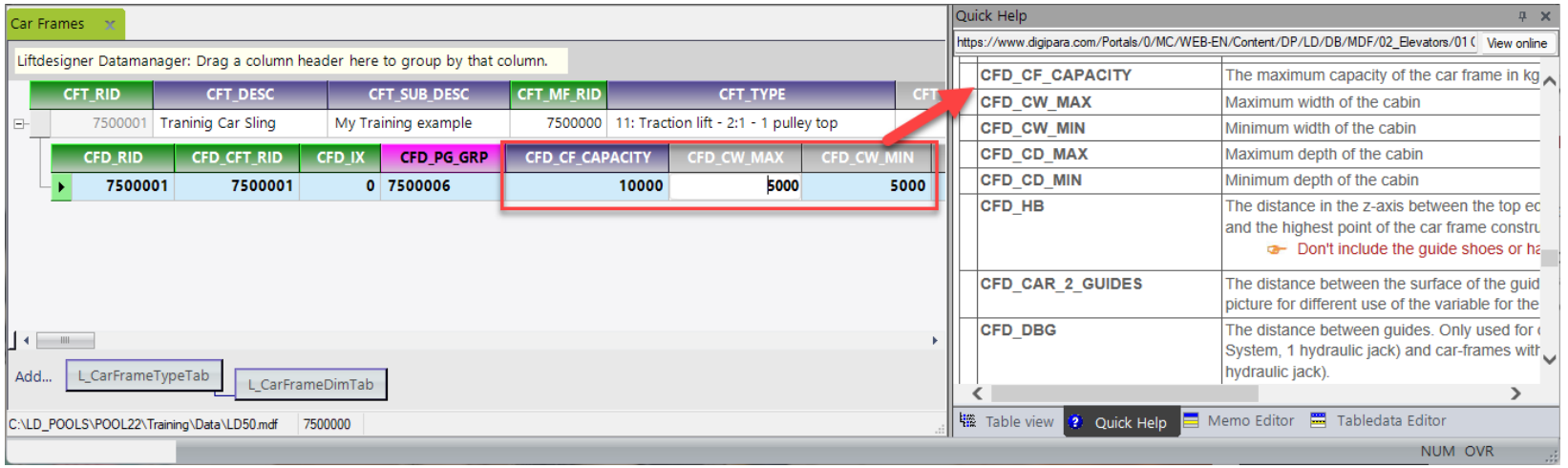


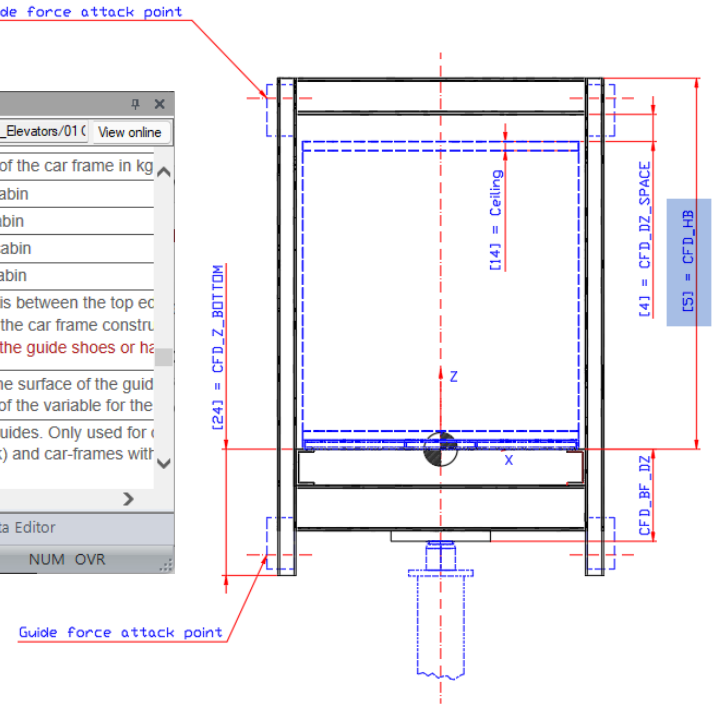
# Edit the Meta Data

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

## Parameters

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




Developer .dwg file

# Edit the Meta Data

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

## Height

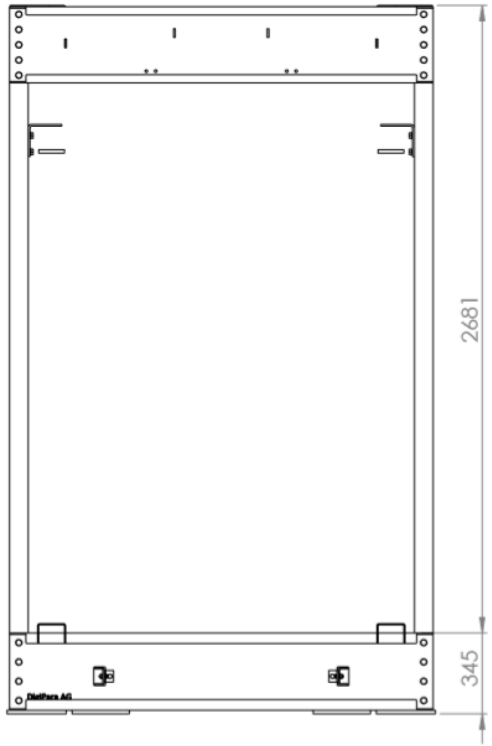
- … in DigiPara Liftdesigner Datamanager

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

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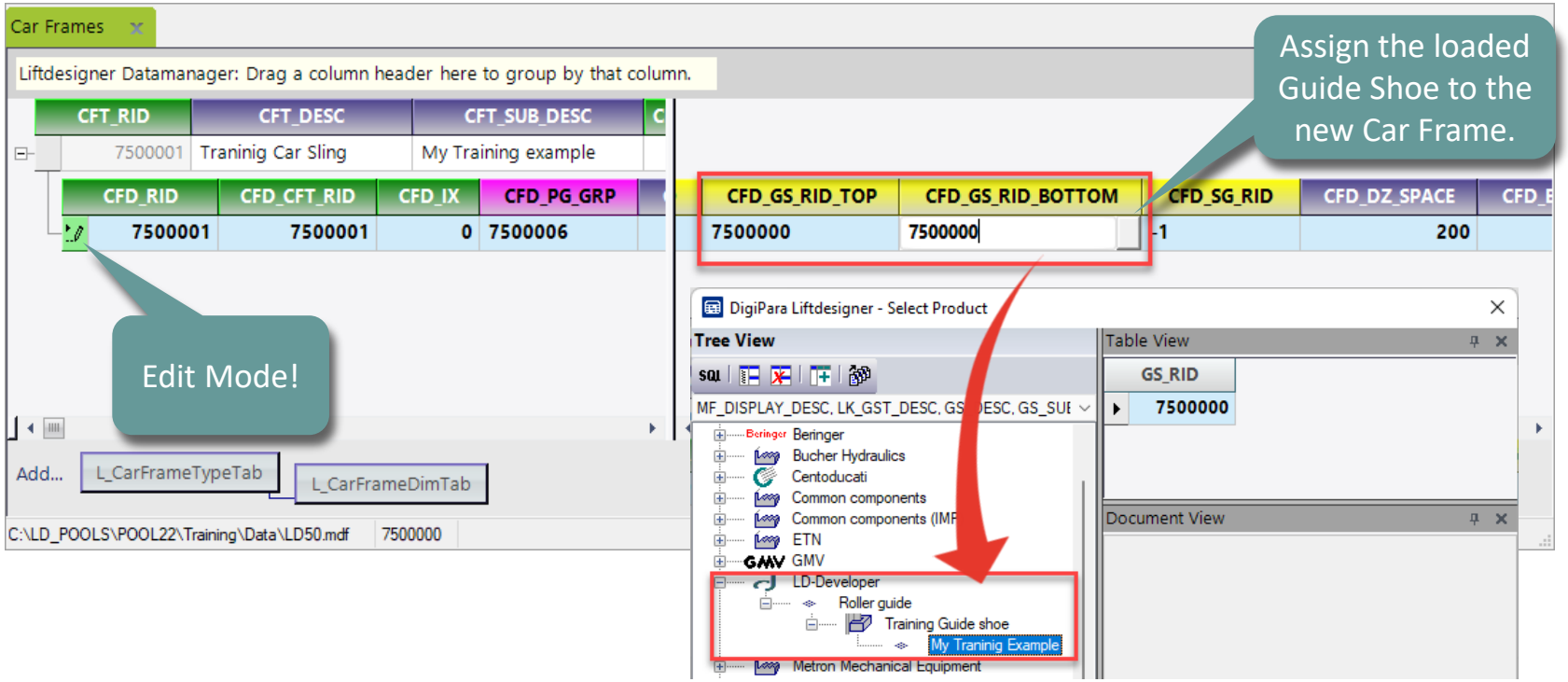
- … in DigiPara Liftdesigner Datamanager

| | |
|---|---|
| **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 |

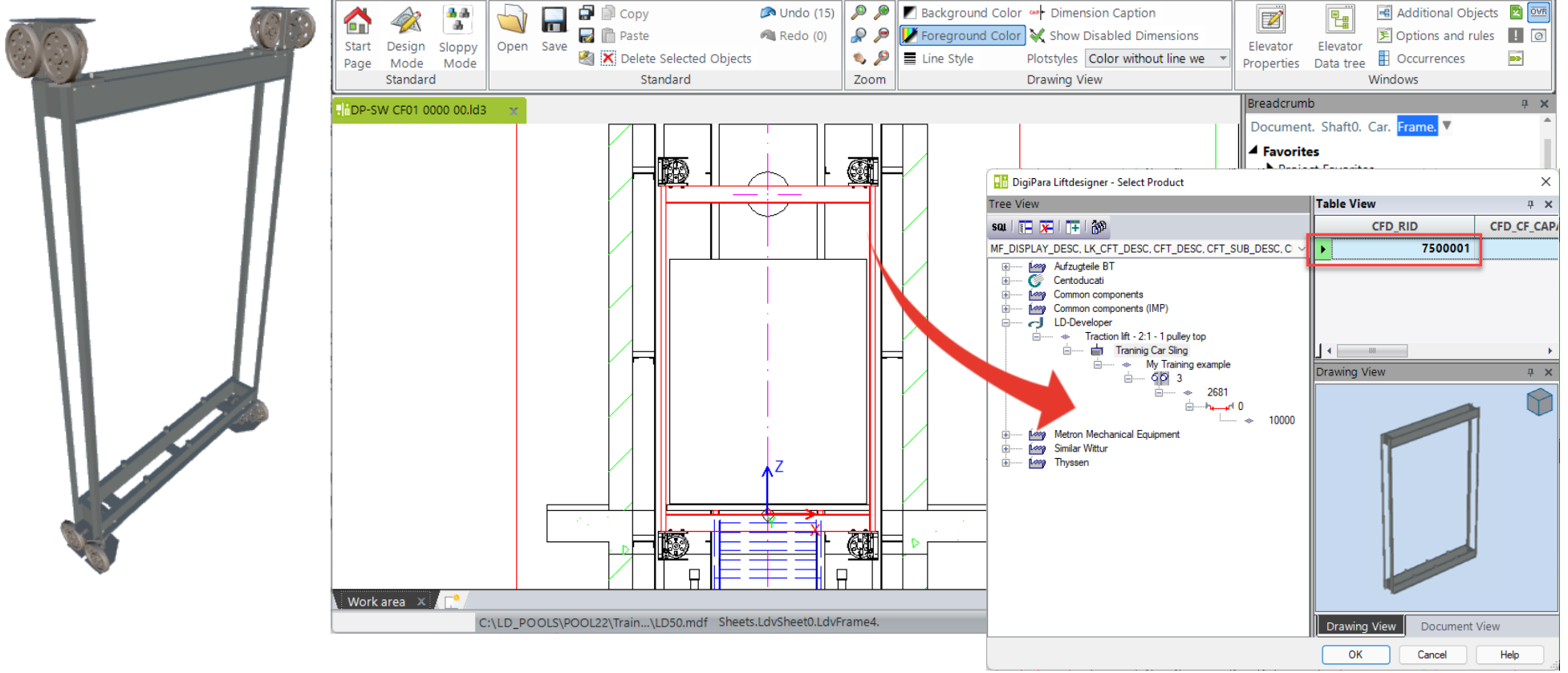


# Load your edited BIM Component

# Load your edited BIM Component

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

- … in DigiPara Liftdesigner

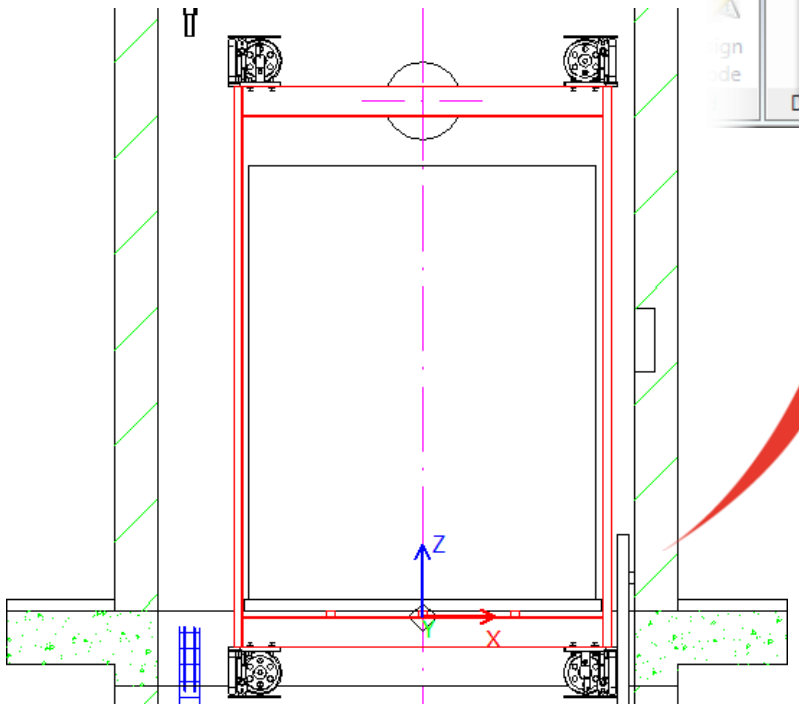


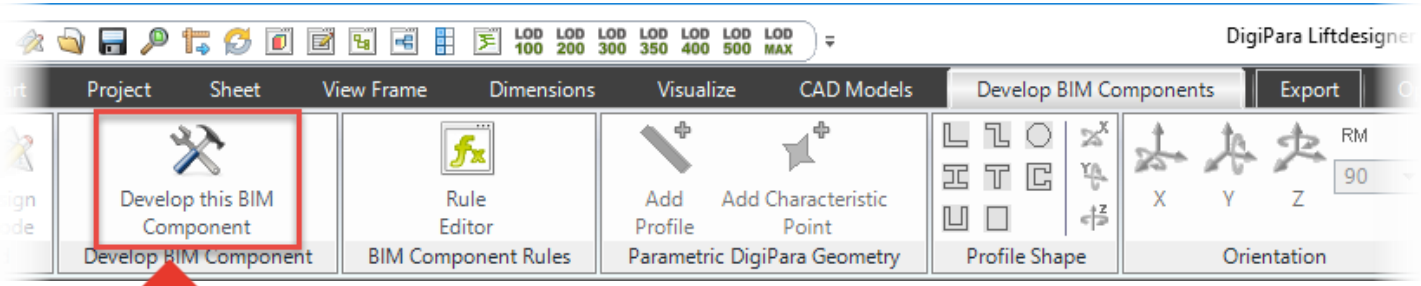
# Load the Developer Work Area

# Load the Developer Work Area

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

- … in DigiPara Liftdesigner via the BIM Component




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

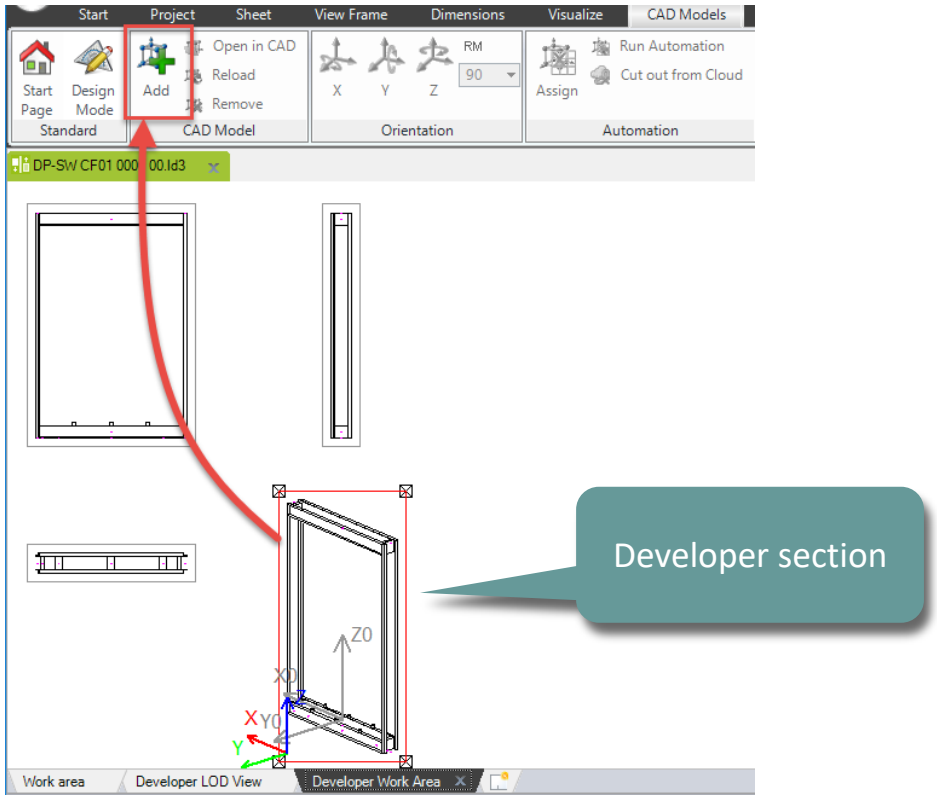
- [x] Add, align and position your Models

# 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

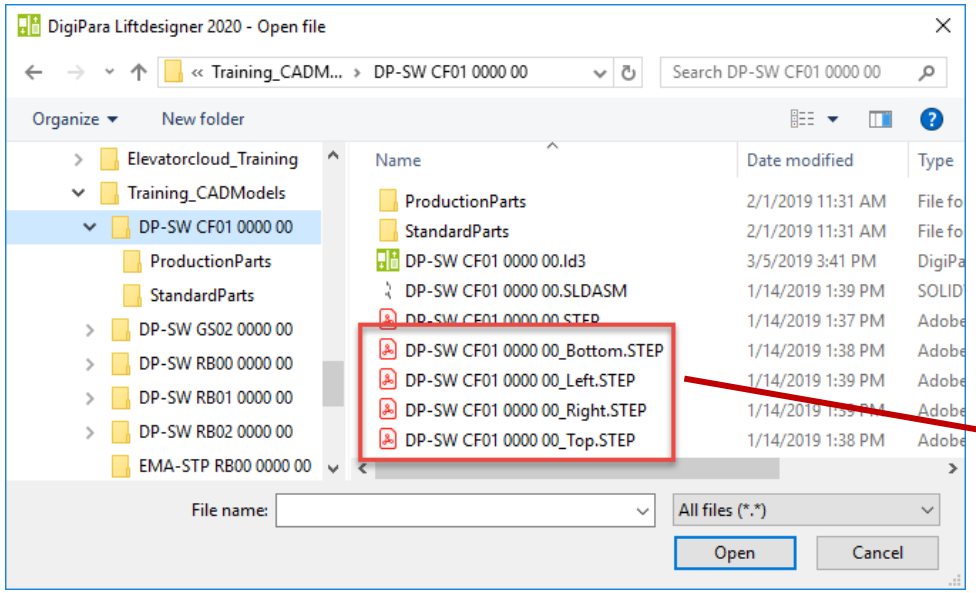


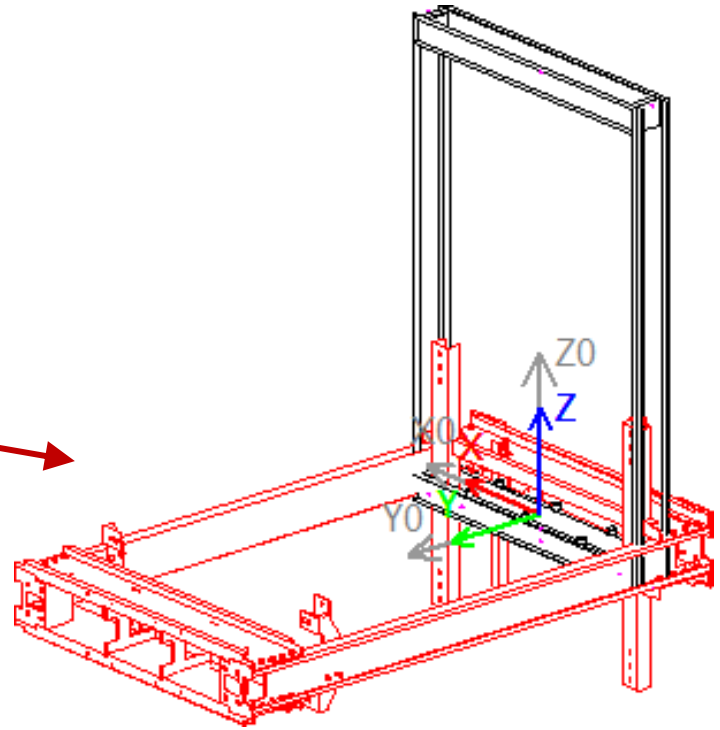
# Add, align and position your CAD Models

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.



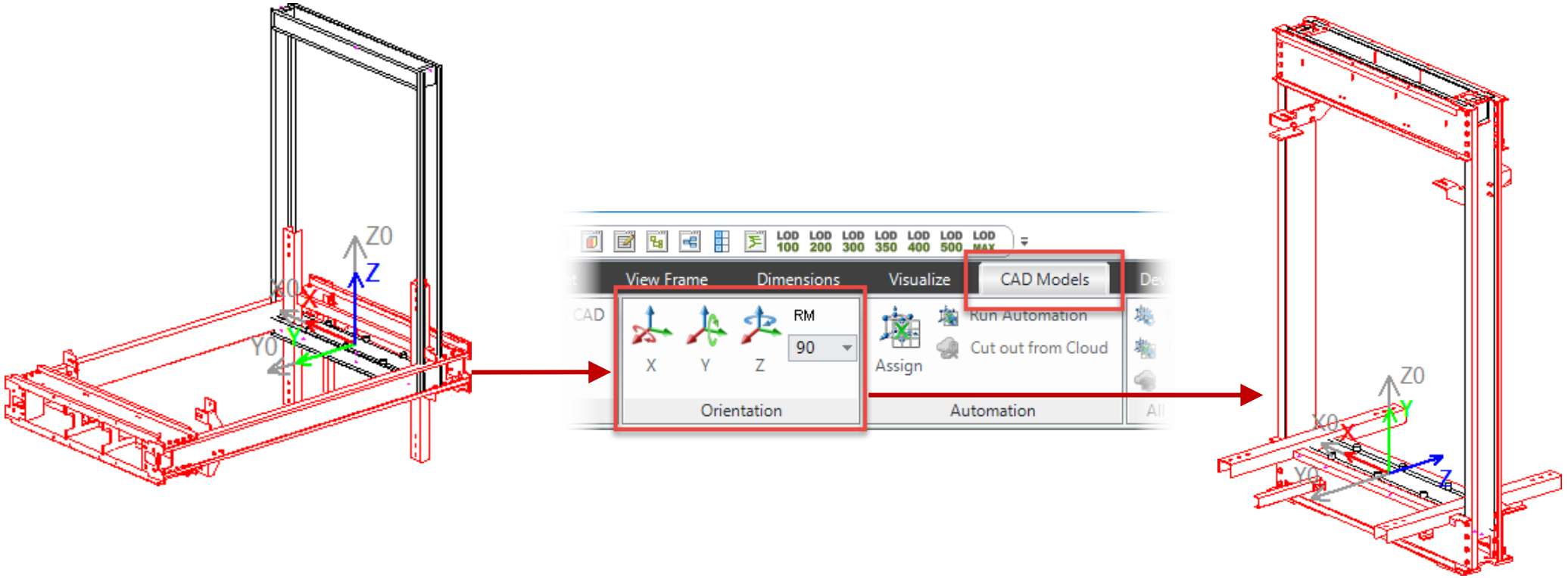



# Add, align and position your CAD Models

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

## Align your CAD Model

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



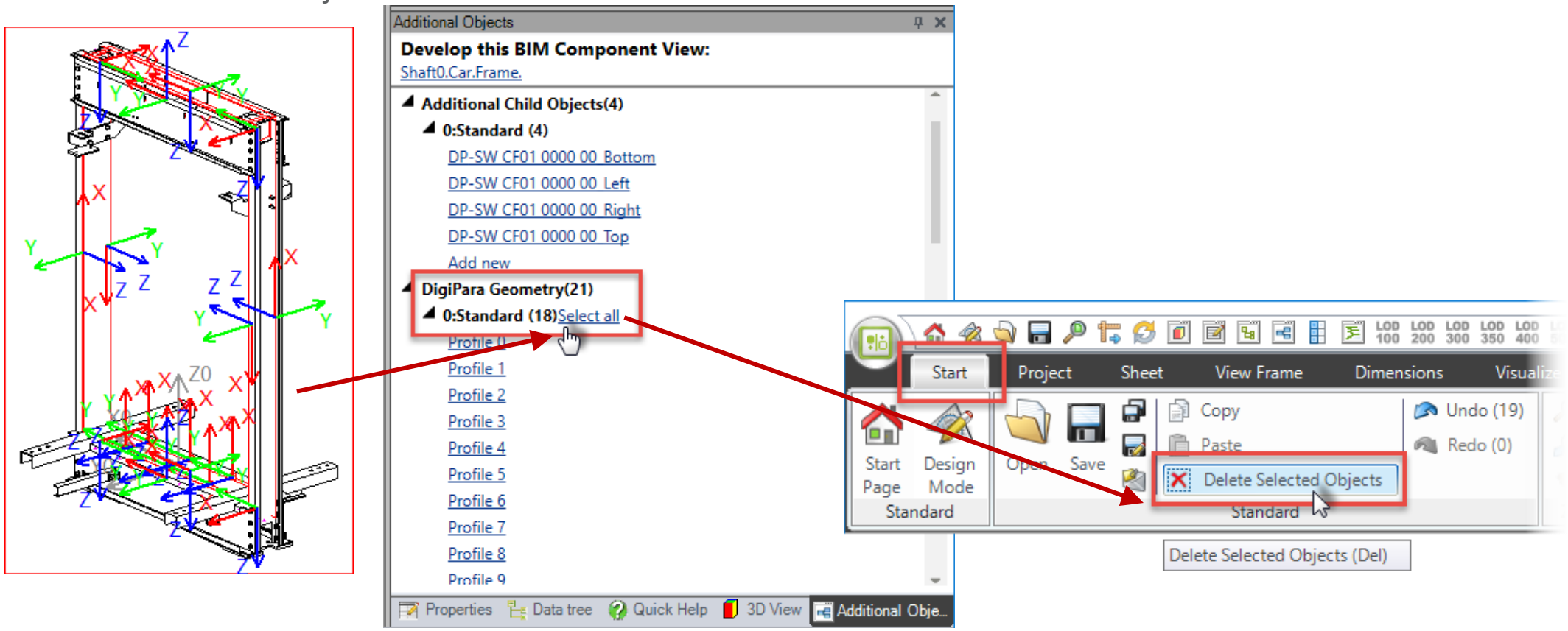
# Delete unneeded profiles

# Delete unneeded DigiPara Liftdesigner profiles

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

digipara® liftdesigner

- … via the Additional Objects window



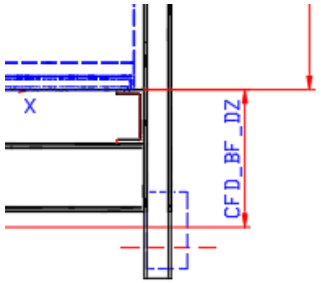
✓ Set the positioning points

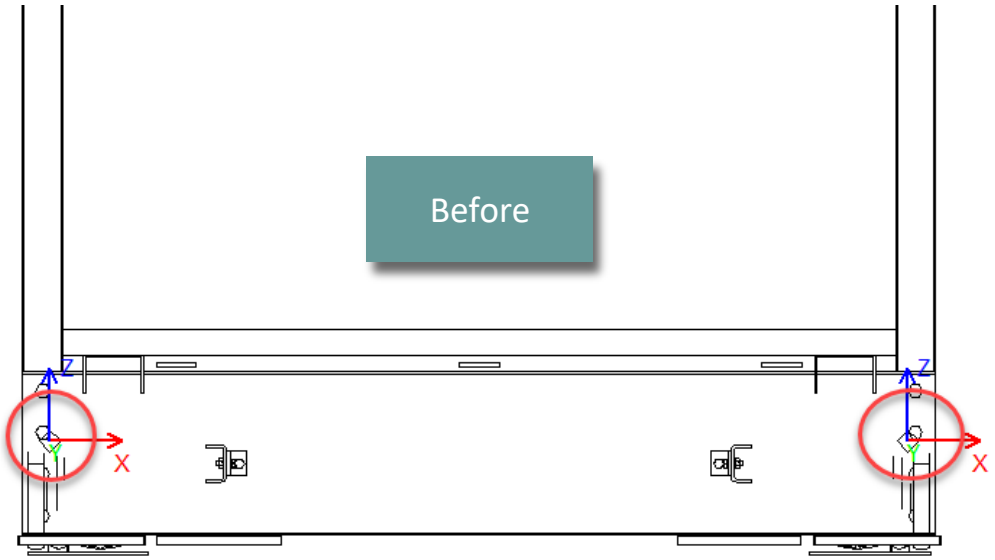
# Set the positioning points

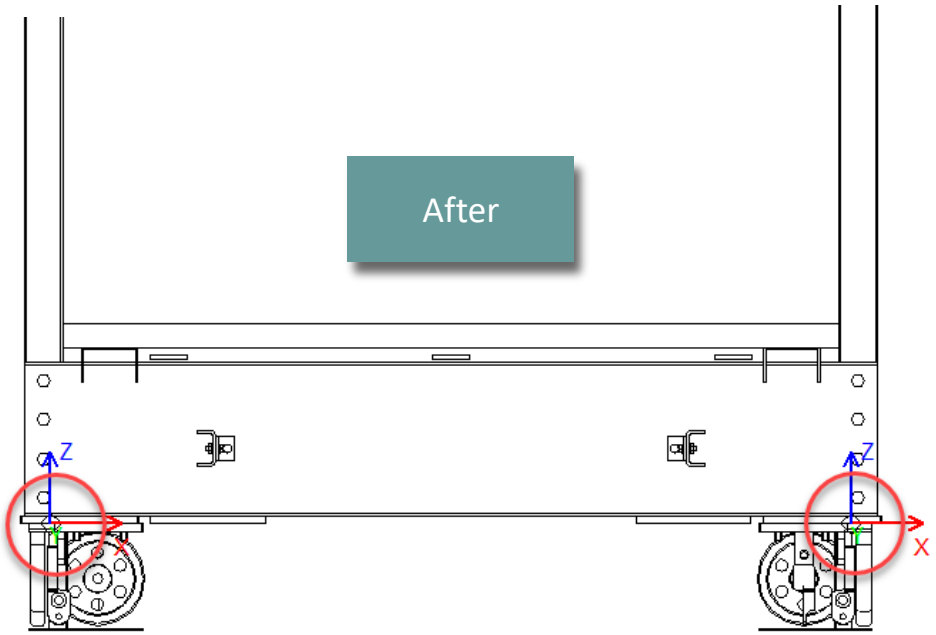
PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

## Guide shoes

- … in DigiPara Liftdesigner



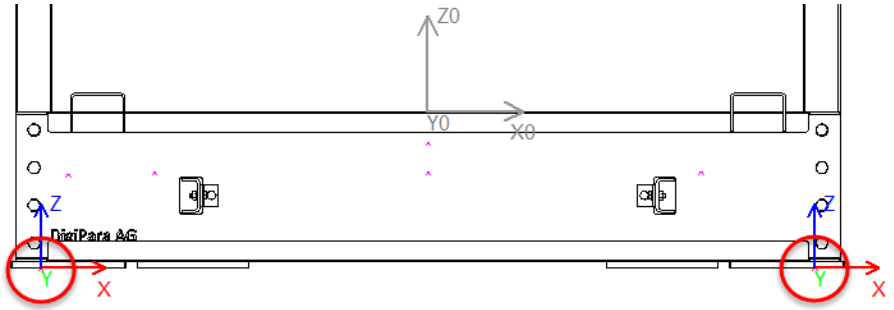



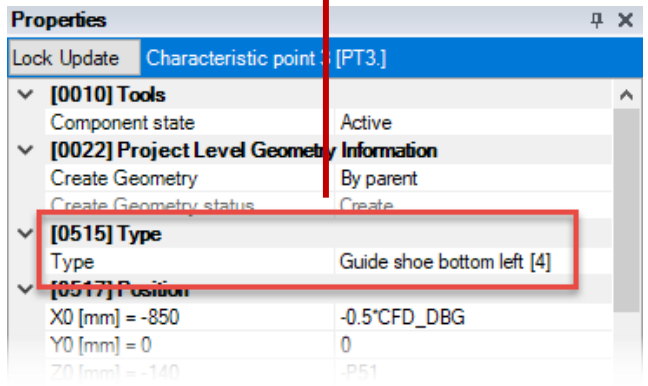
# Set the positioning points

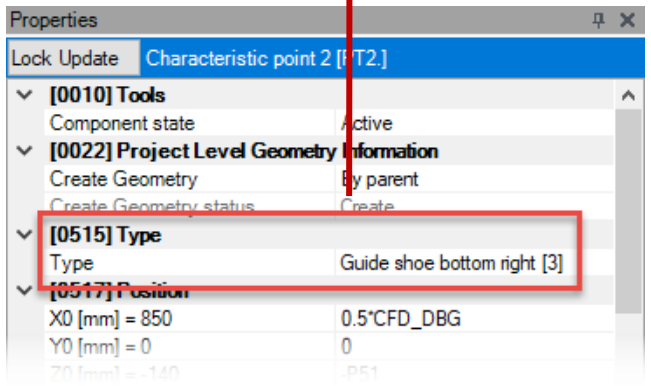
PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

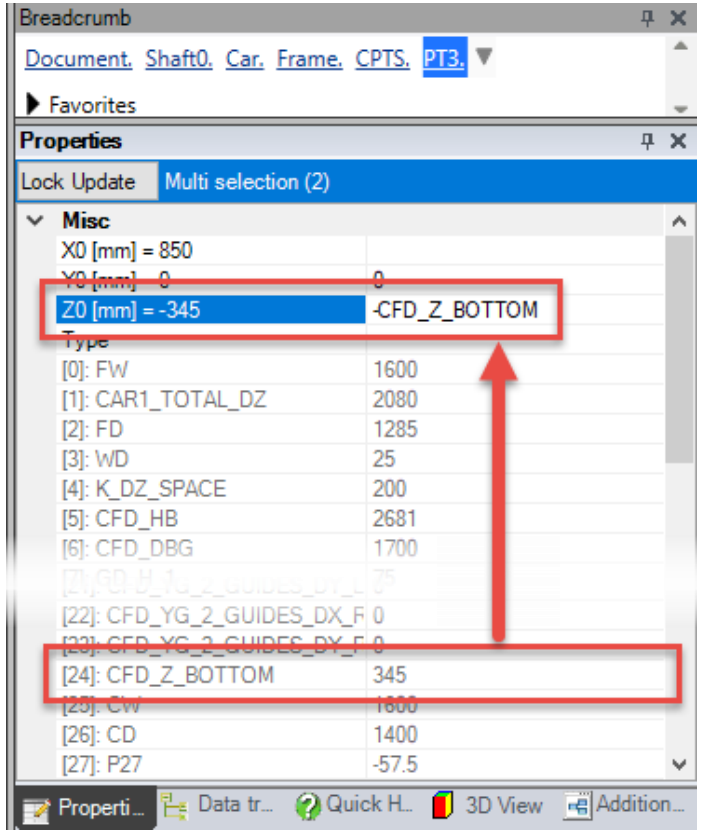
## Guide shoes

- … in DigiPara Liftdesigner



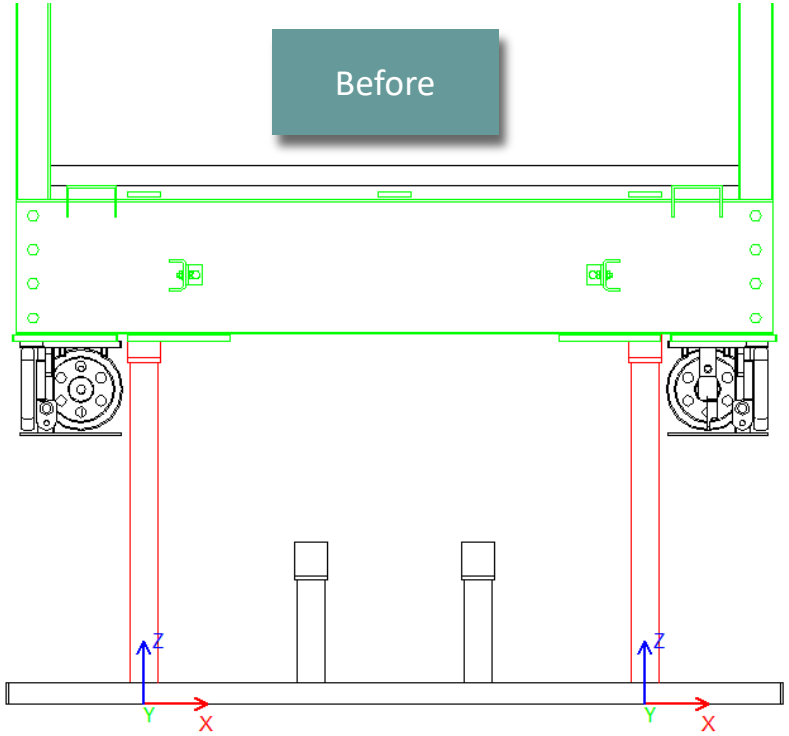



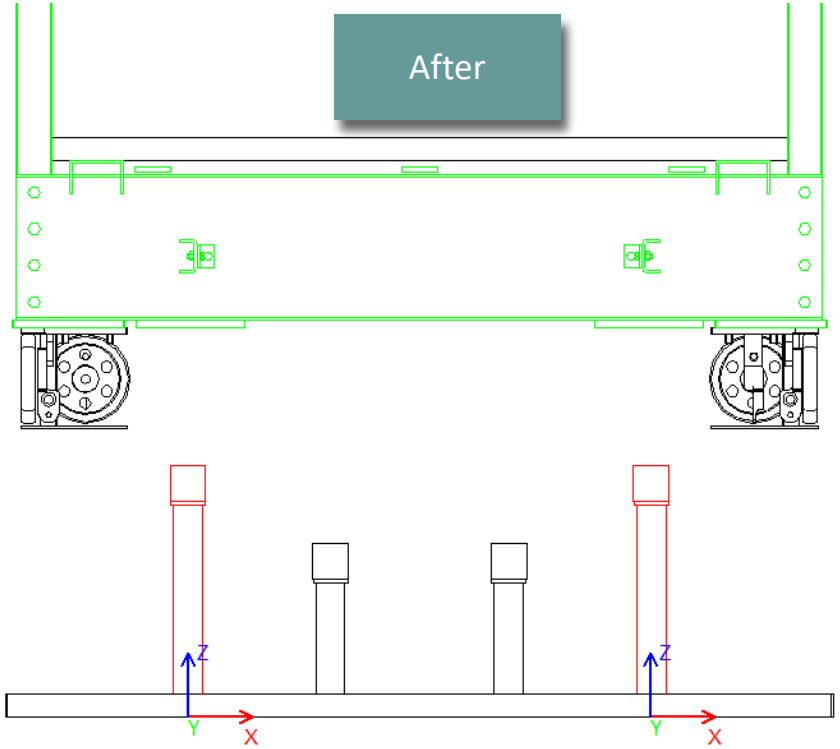
# Set the positioning points

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

## Buffer

- … in DigiPara Liftdesigner



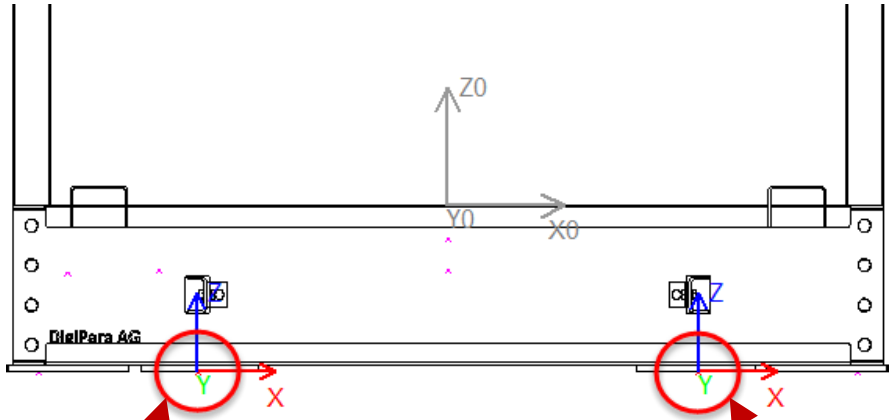



# Set the positioning points

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*FW - WD - CF_CAR_2_GUIDES + 330 |
| Y0 [mm] = 0 | 0 |
| Z0 [mm] = -345 | -CFD_Z_BOTTOM |
| **[0519] Options** | |
| This Object belongs to Product Or | -1 |
| Dynamic Dimension | No |

Properties

Lock Update | Characteristic point 5 [PT5.]

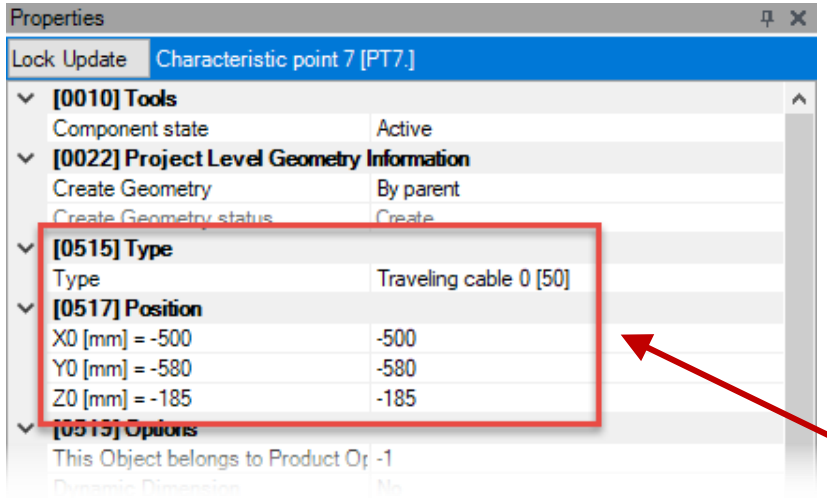
| | |
|---|---|
| **[0010] Tools** | |
| Component state | Active |
| **[0022] Project Level Geometry Information** | |
| Create Geometry | By parent |
| Create Geometry status | Create |
| **[0515] Type** | |
| Type | Buffer impact pt 1(if 2 buffers) [11] |
| **[0517] Position** | |
| X0 [mm] = 520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

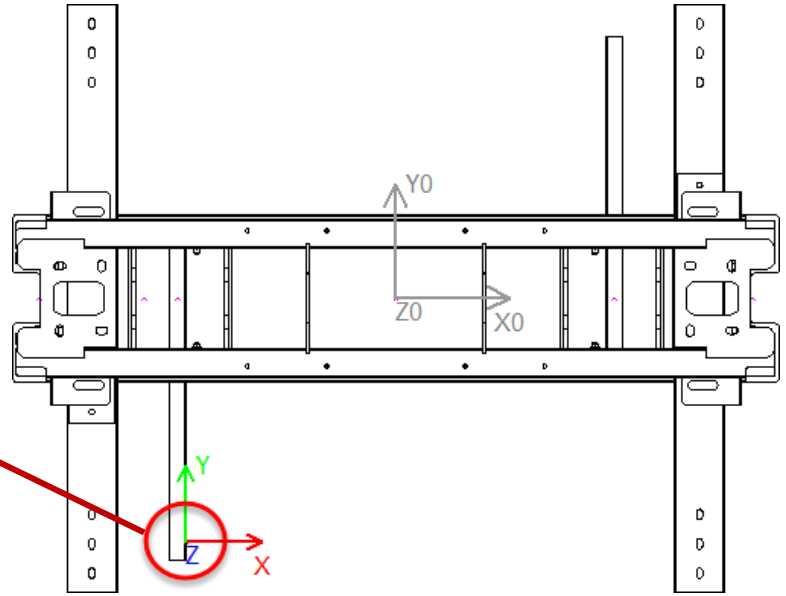
# Set the positioning points

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

## Traveling cable

- … in DigiPara Liftdesigner



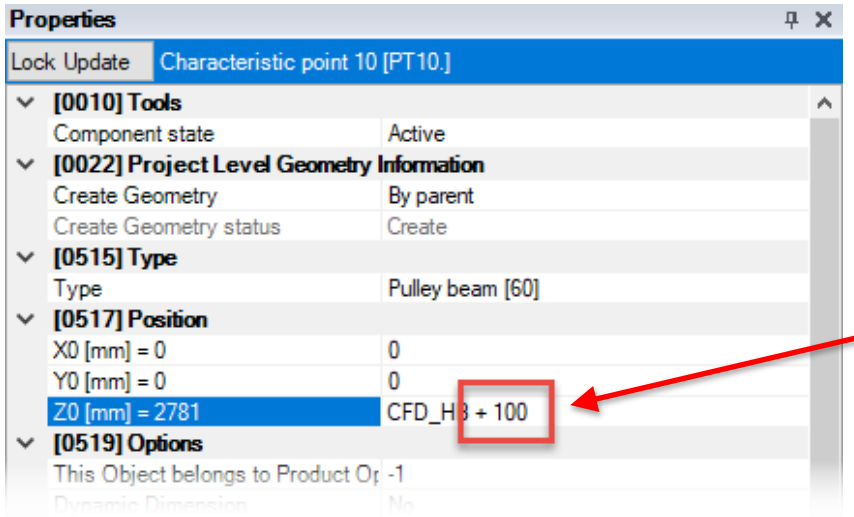



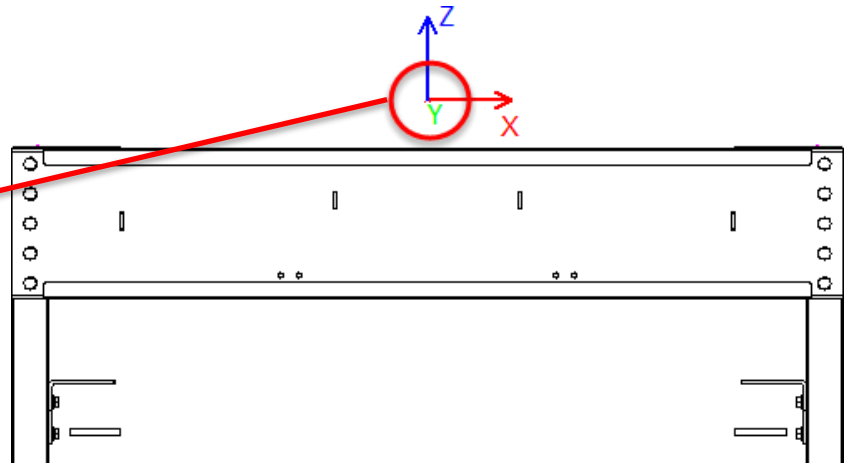
# Set the positioning points

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

## Pulley beam

- … in DigiPara Liftdesigner



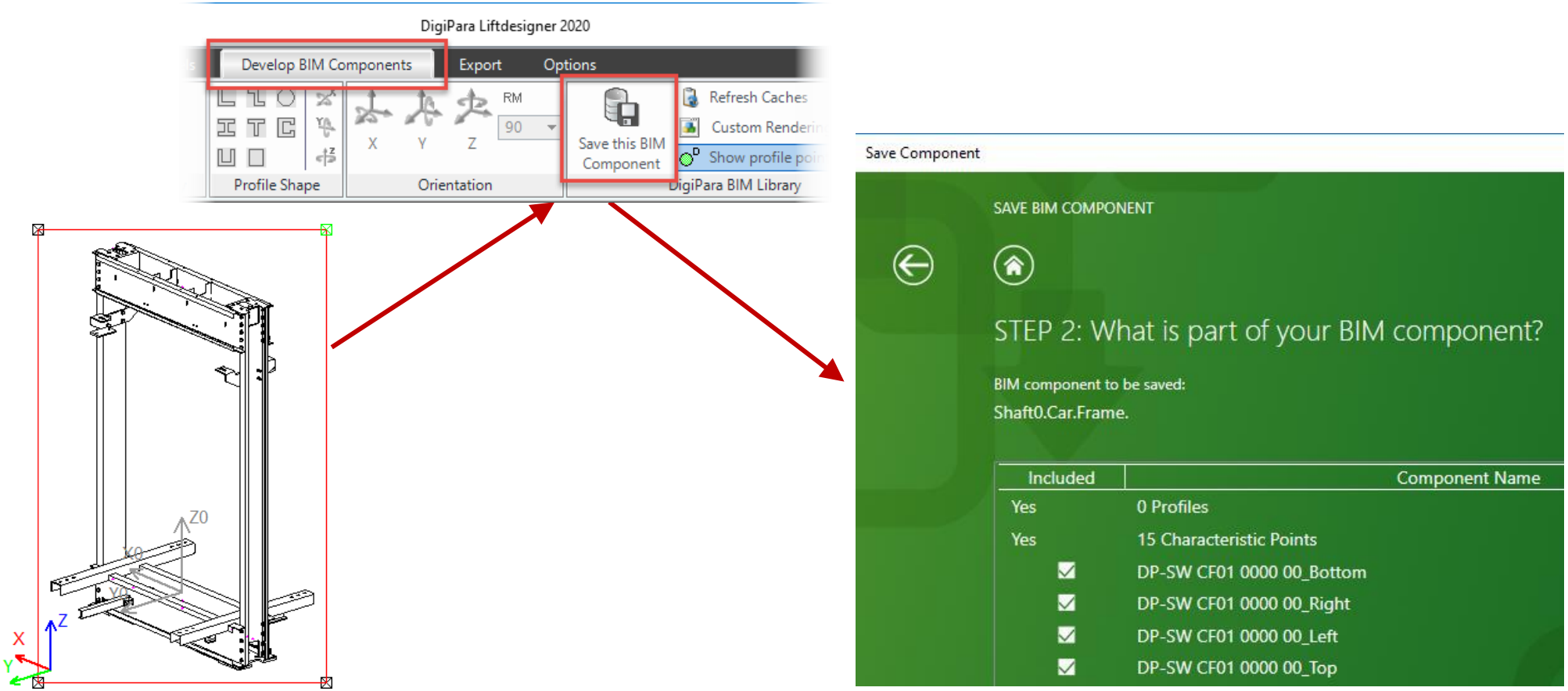



Save the BIM Component back into the BIM Library

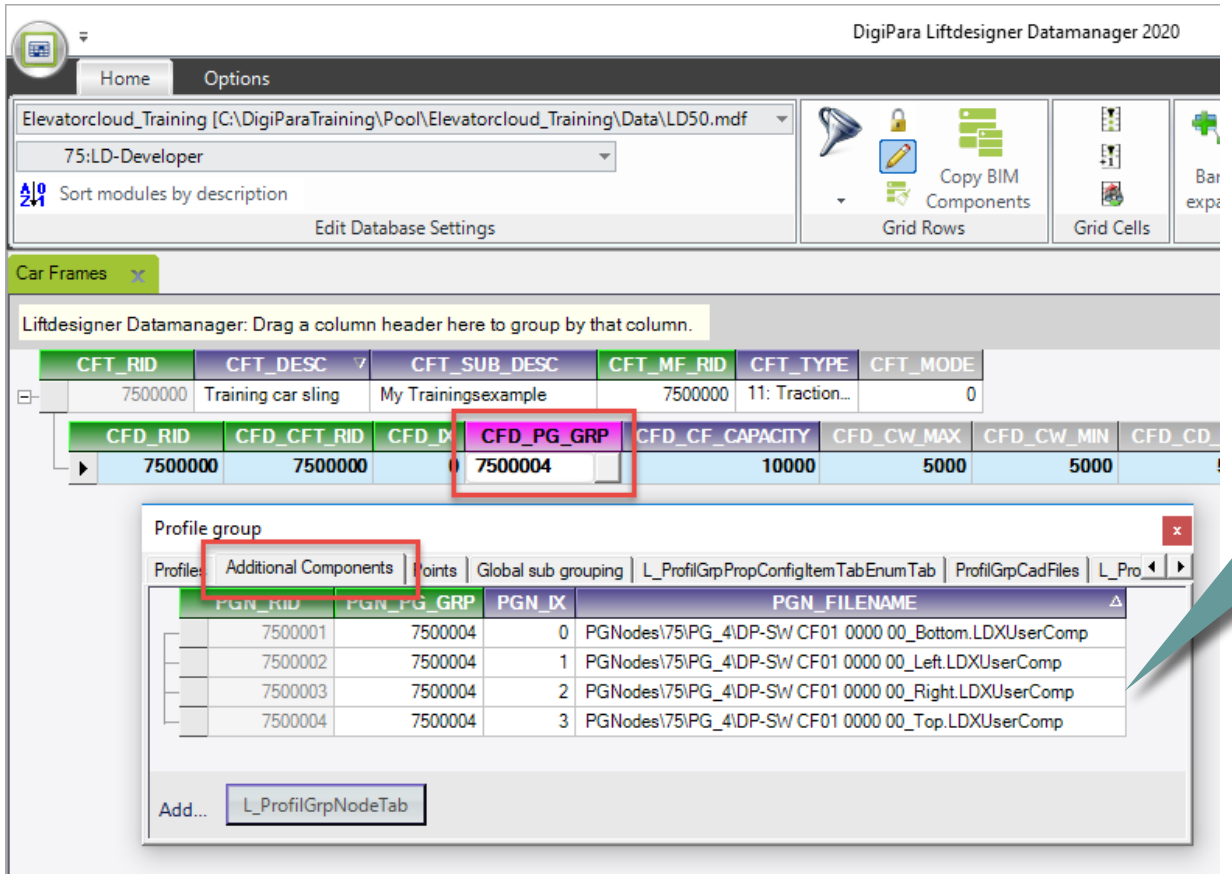
# Save the BIM Component back into the Library

PL3.3 DYNAMIC BIM COMPONENT: CAR FRAME

## Save the finished defined BIM Component



# Save the BIM Component back into the Library




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

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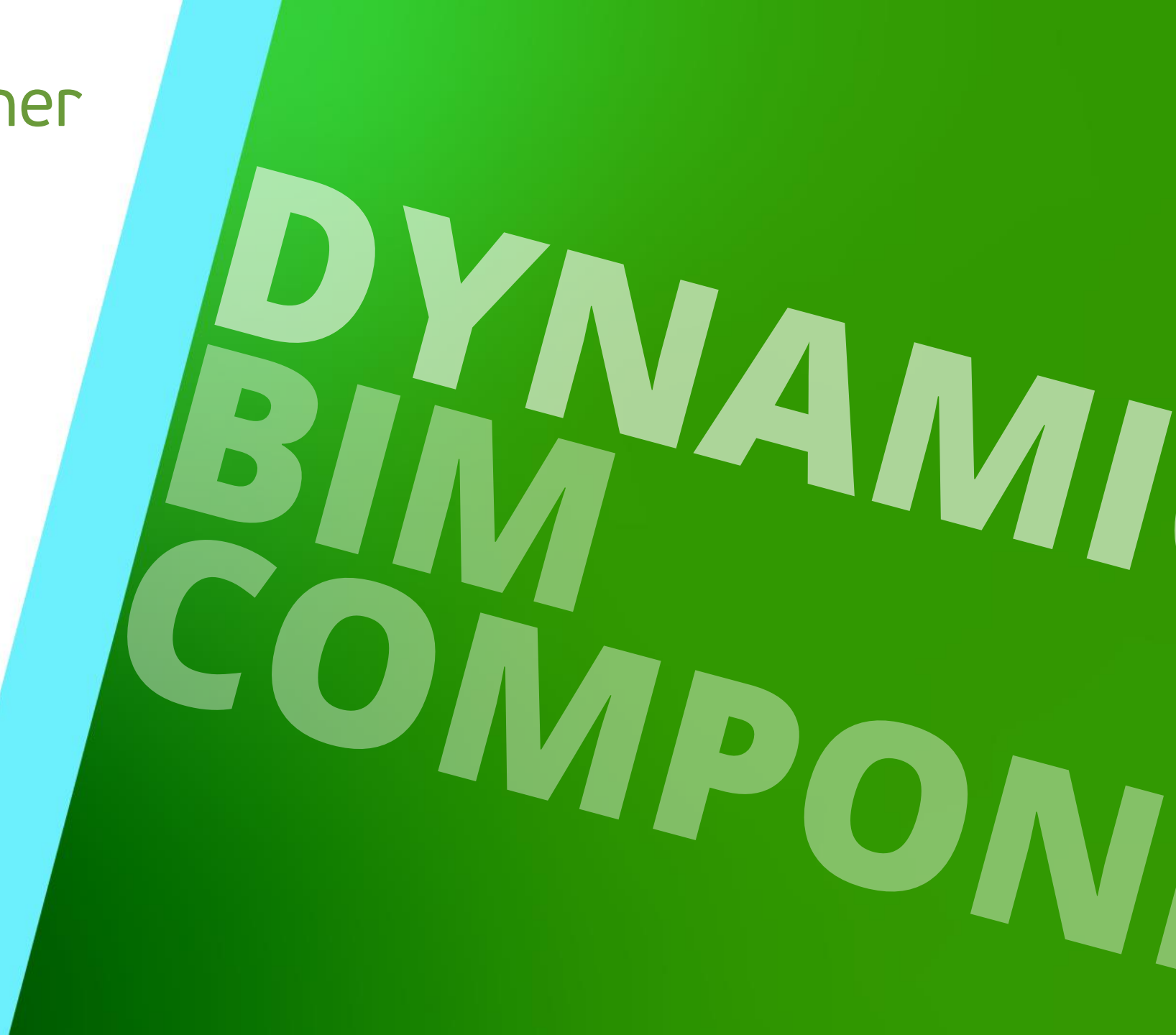
# PL3.4

## Dynamic BIM Component: Car Frame

## Optional Steps



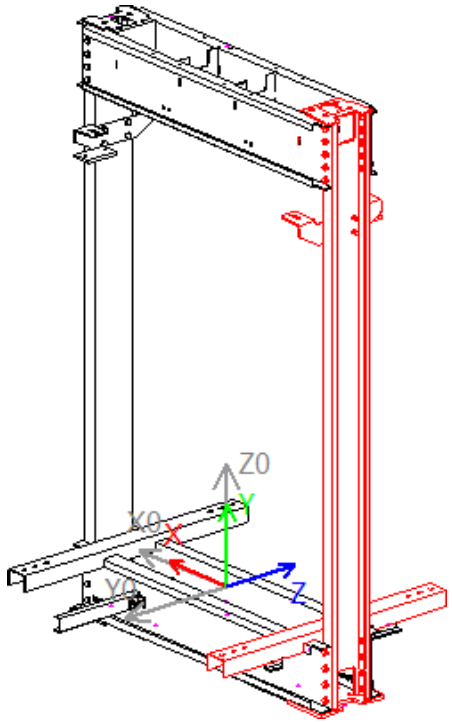
# Associate DigiPara Liftdesigner 3D Parameter

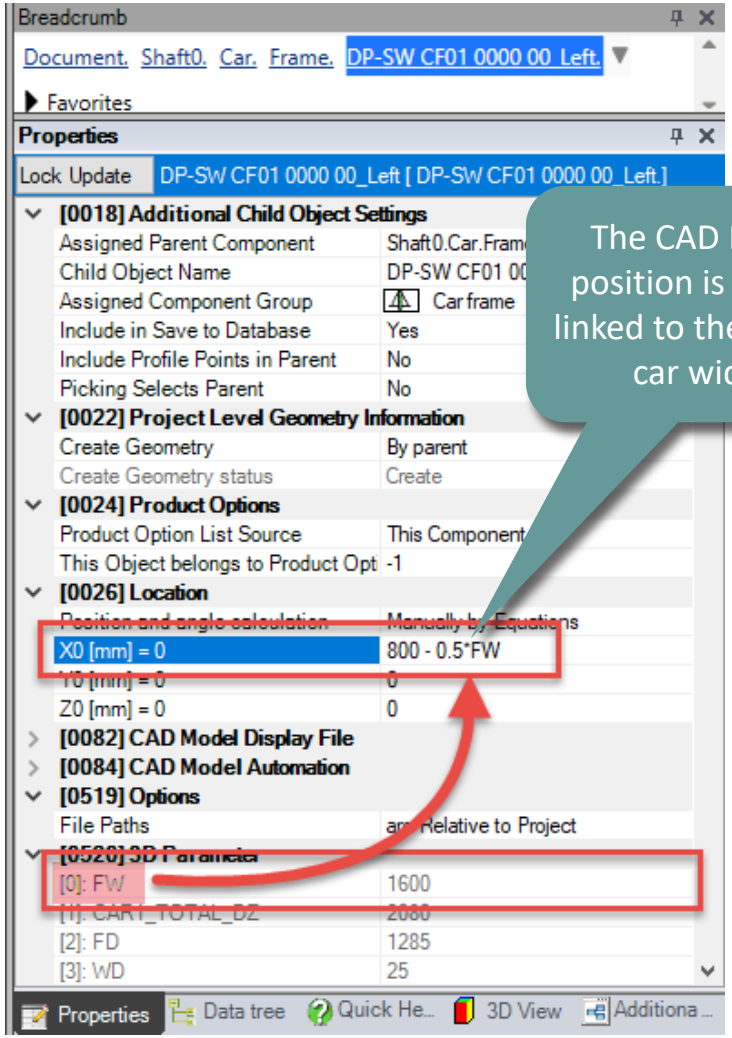
# Associate DigiPara Liftdesigner 3D Parameter

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




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.

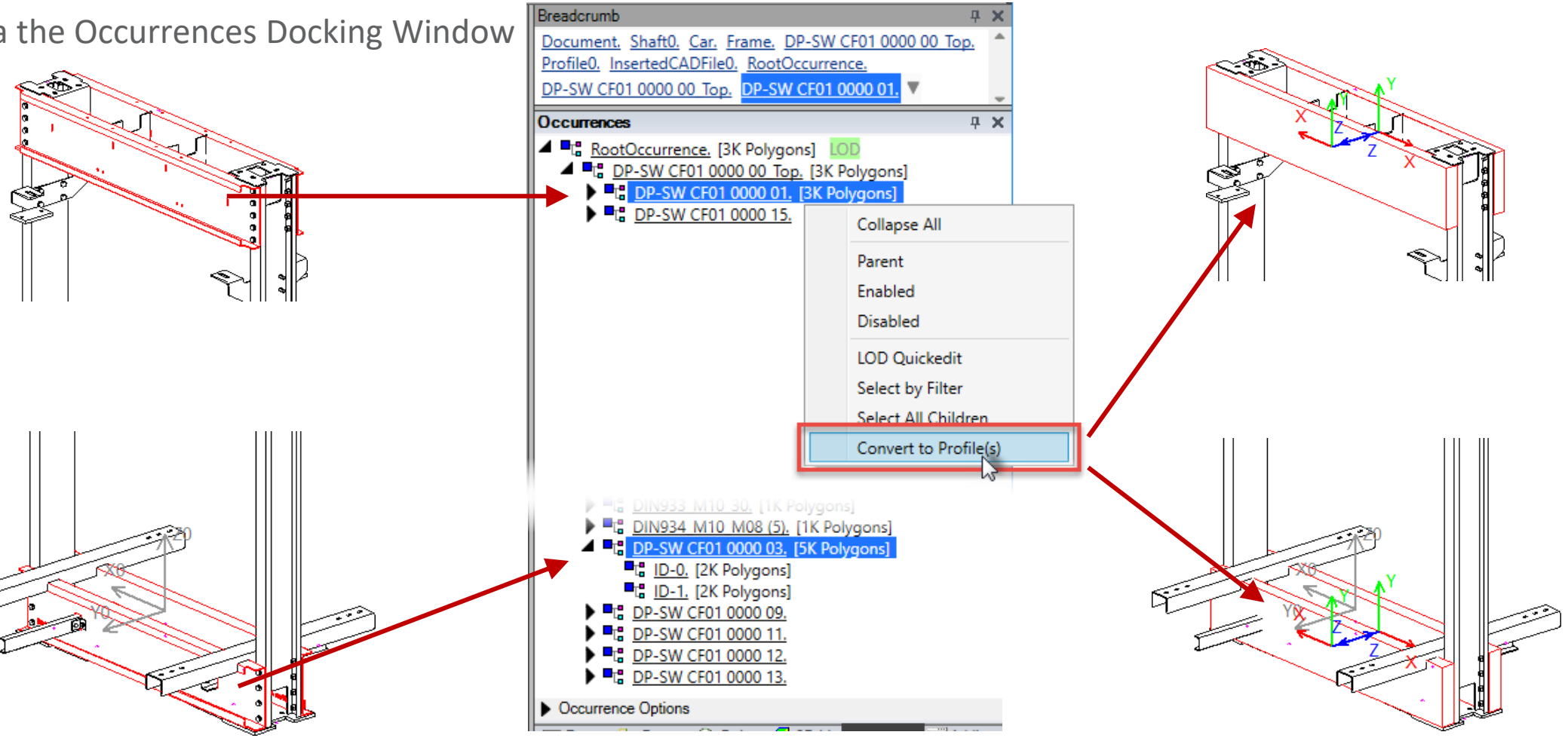
- [x] Convert to simplified Liftdesigner profiles

# Convert to simplified DigiPara Liftdesigner profiles

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

digipara® liftdesigner

- … via the Occurrences Docking Window

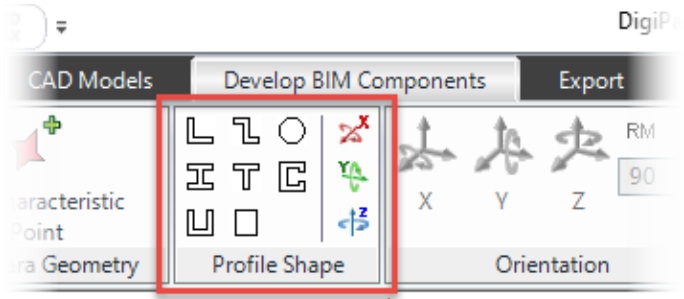


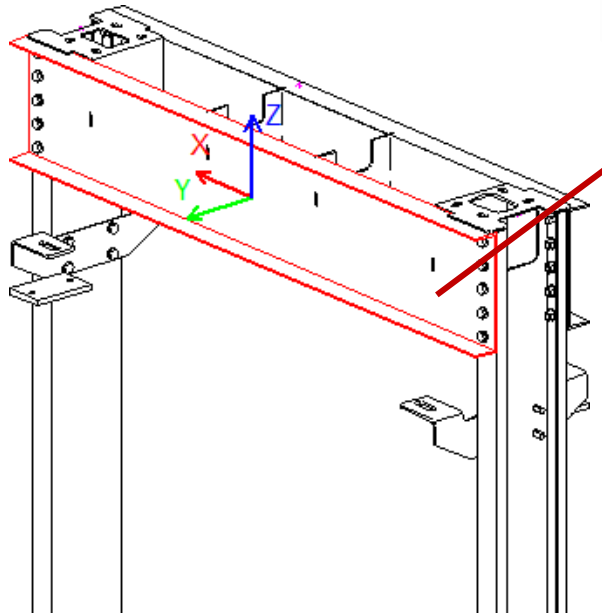
# Convert to simplified DigiPara Liftdesigner profiles

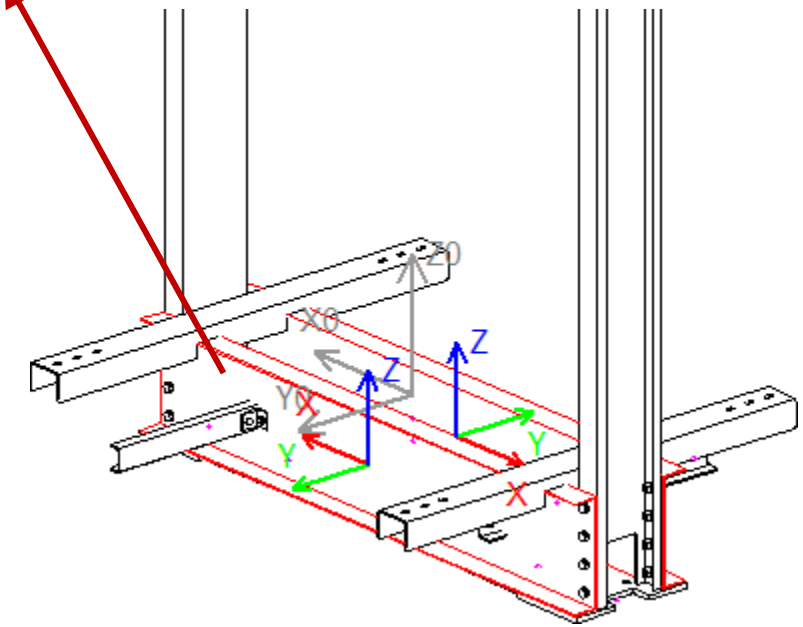
PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

## Adjust Profile Shape and Orientation

- … via the Ribbon Group: Profile Shape



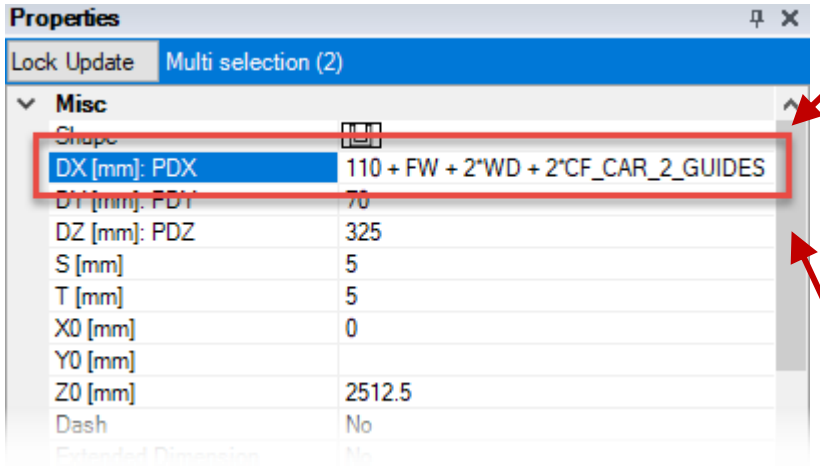



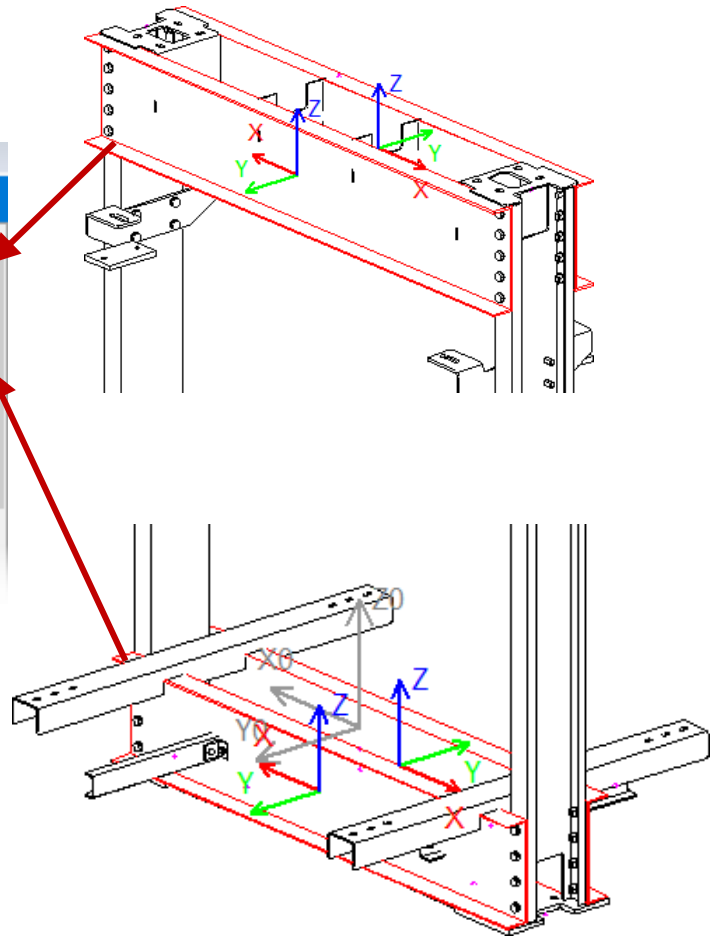
# Convert to simplified DigiPara Liftdesigner profiles

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

## Customize converted Profile - Size

- … using 3D Parameter via the Profile Properties



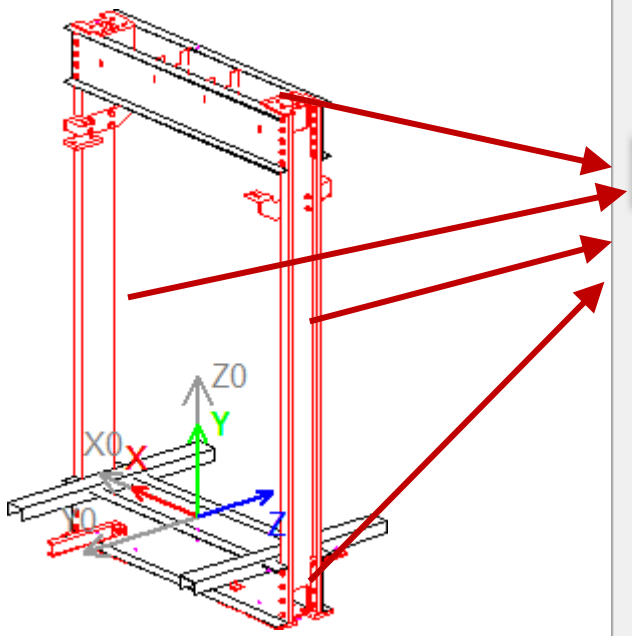
Replace the inherited fixed value with a formula:
110 + Car width + 2*Wall thickness + 2*Distance between the guides

# Convert to simplified DigiPara Liftdesigner profiles

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

## CAD Model setting: Picking selects parent

- … in DigiPara Liftdesinger Properties Window




**Properties**

Lock Update | 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 … 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 |

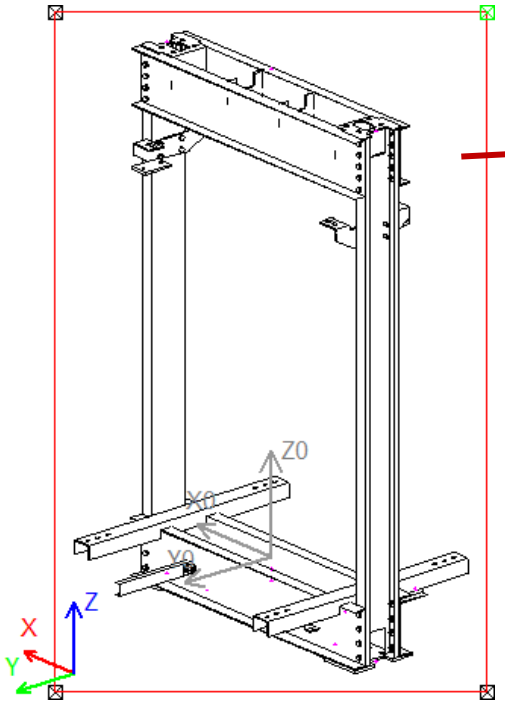
The DigiPara Liftdesigner parent BIM Component will always be selected in non-developer view frames.

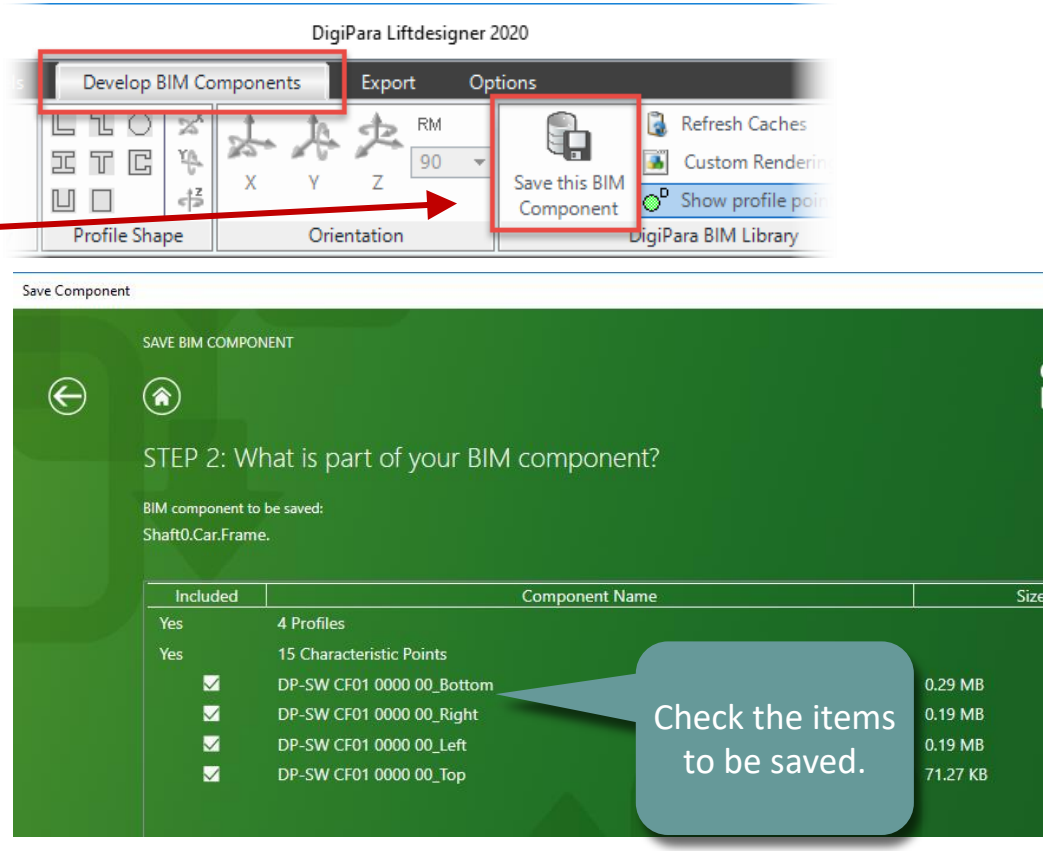
# Convert to simplified DigiPara Liftdesigner profiles

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

## Save the finished defined BIM Component

- … into the DigiPara BIM Library



# Set individual LOD

## Level of Development

# Set individual LOD

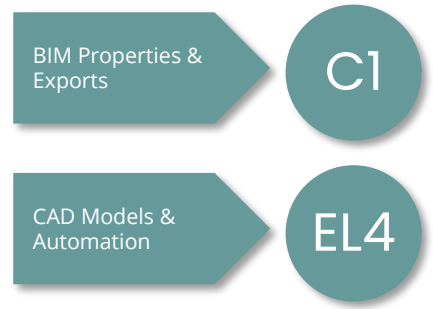
PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

## 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.





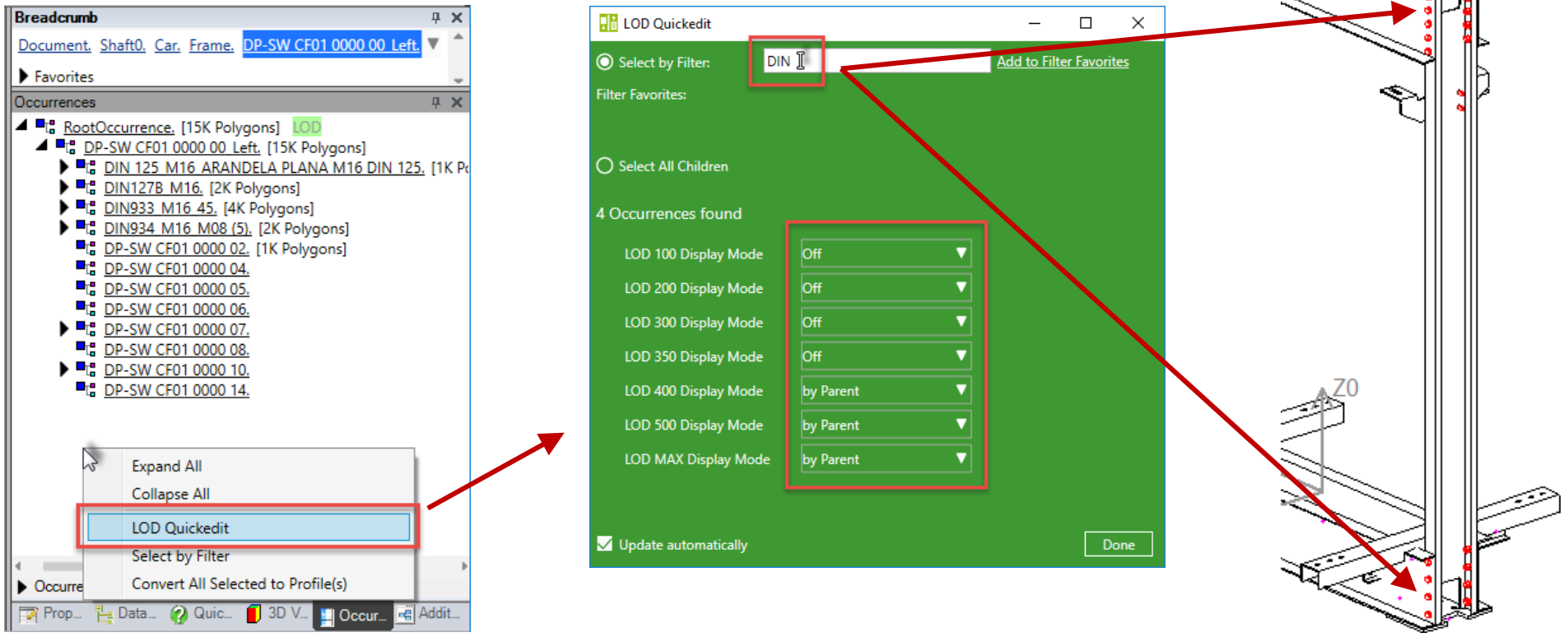

 

# Set individual LOD

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

## Set individual LOD settings of your BIM Component

- … via: LOD Quickedit



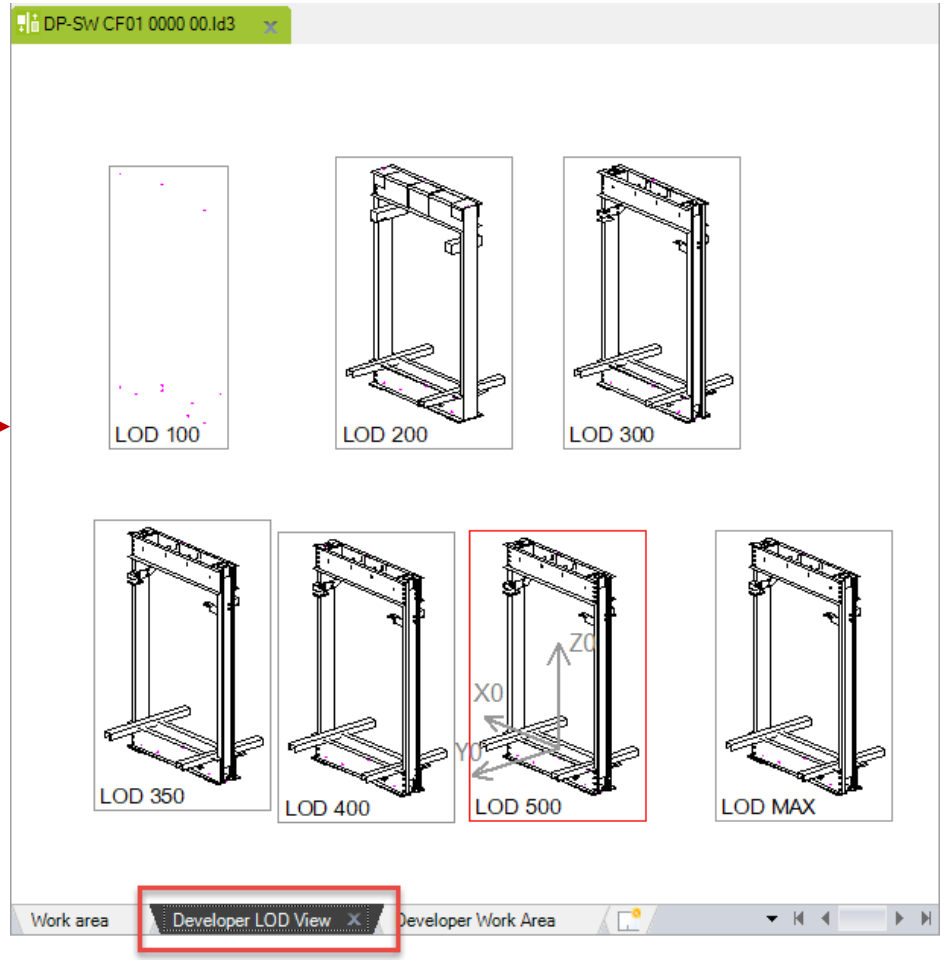
# Set individual LOD

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.



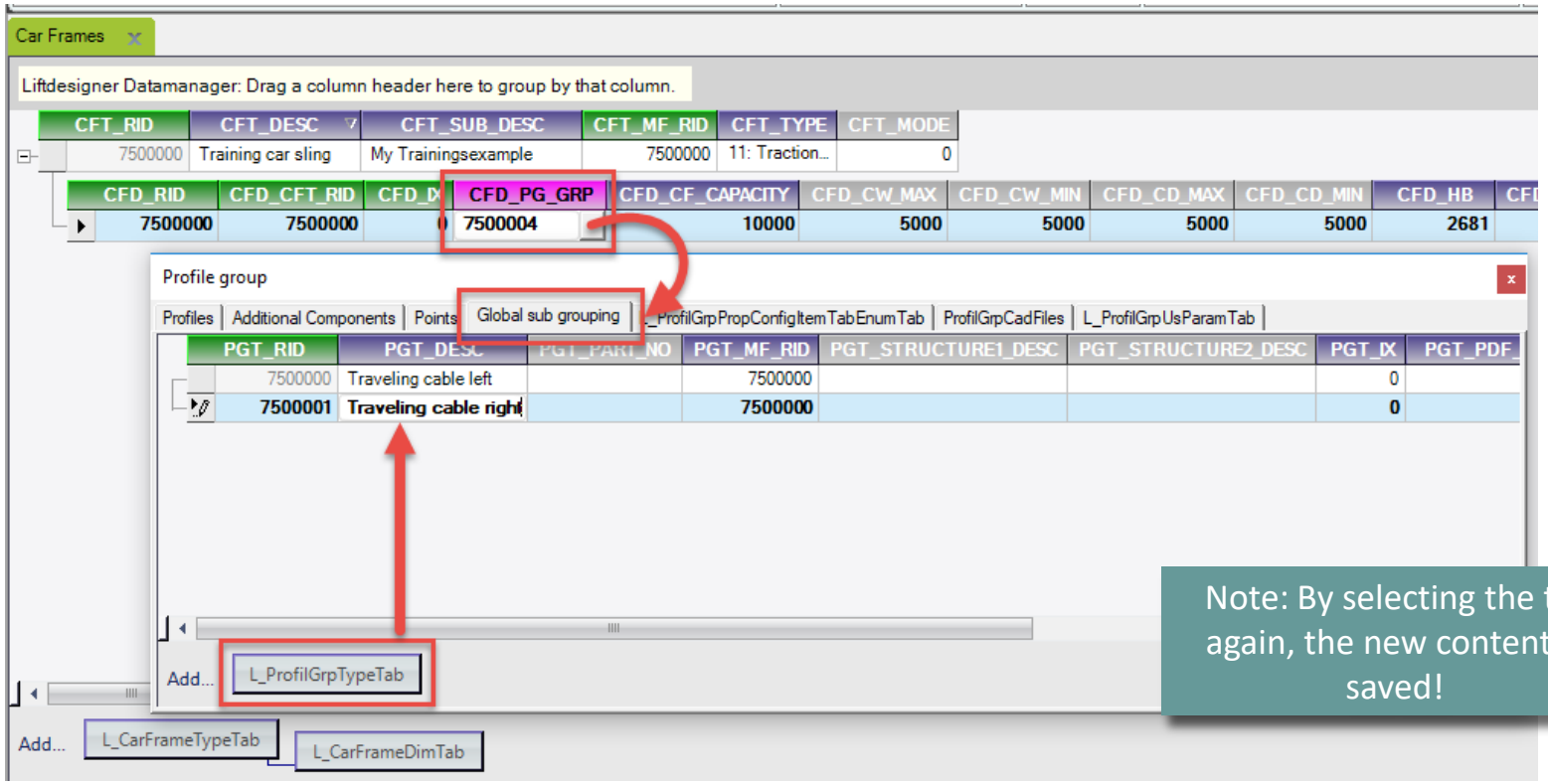
# Options & Rules

# 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

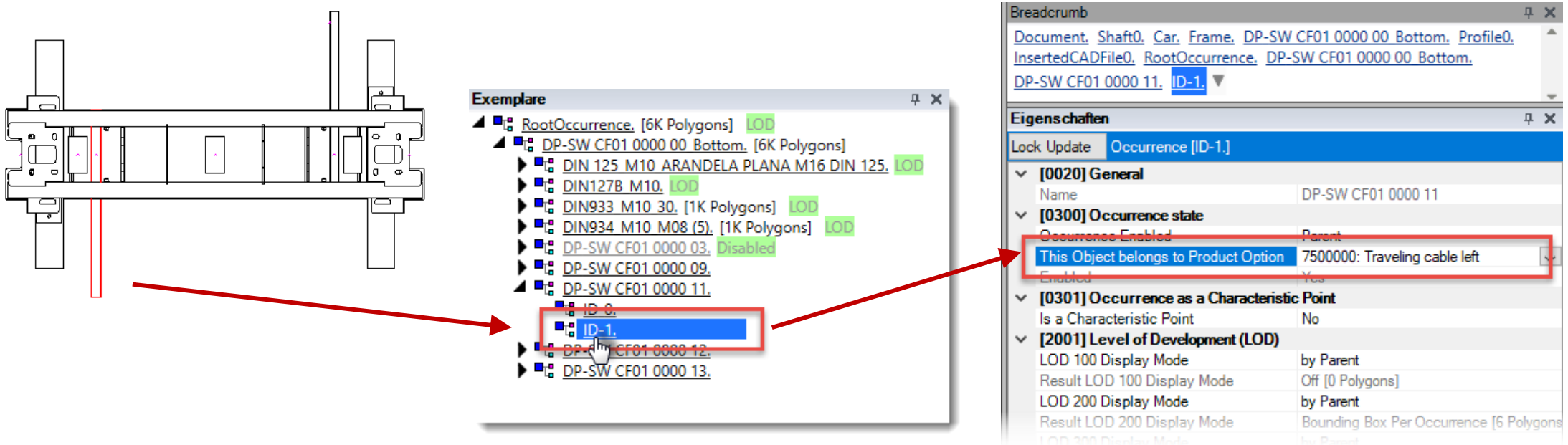


# Define new and customize copied Product Options

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

## Assign created Product Options to the individual Occurrences

- … in DigiPara Liftdesigner via the Properties Window

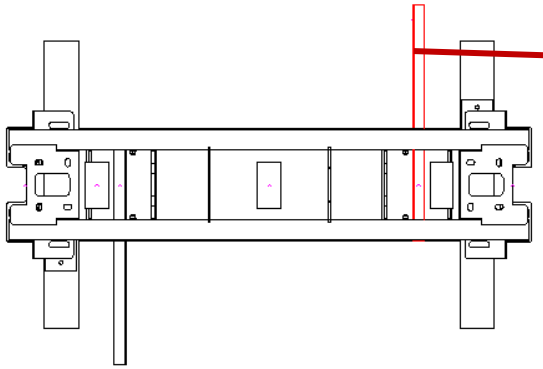


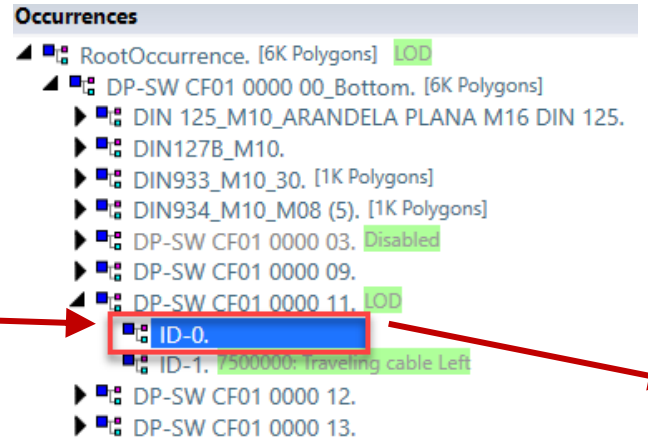
# Define new and customize copied Product Options

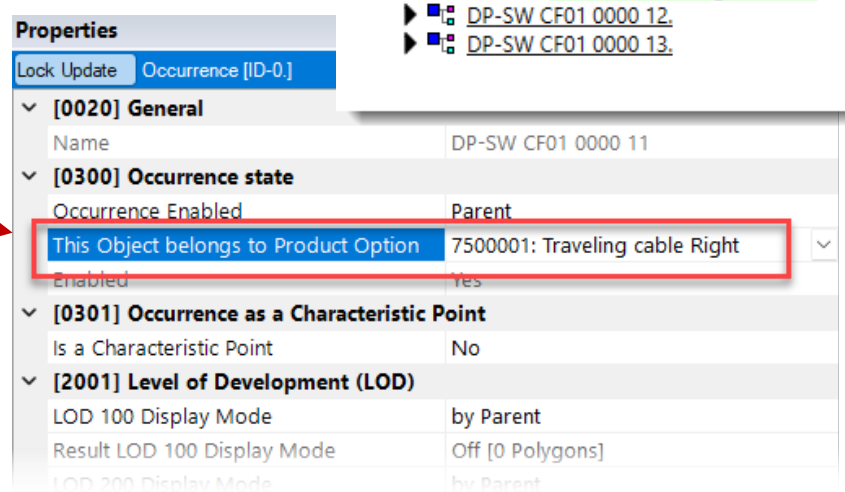
PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

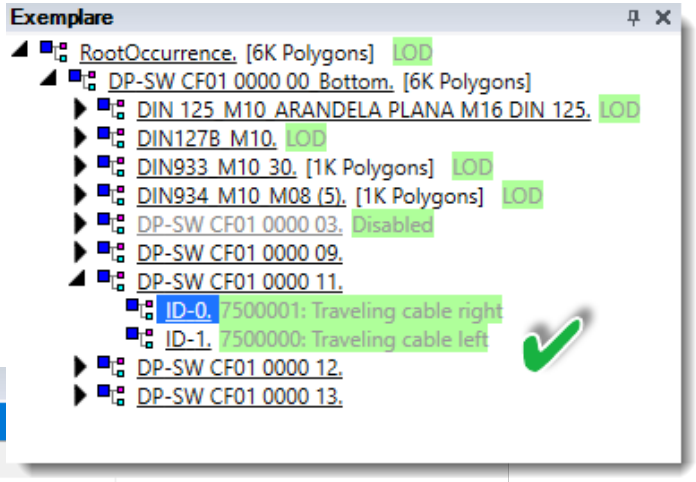
## Assign created Product Options to the individual Occurrences

- … in DigiPara Liftdesigner via the Properties Window





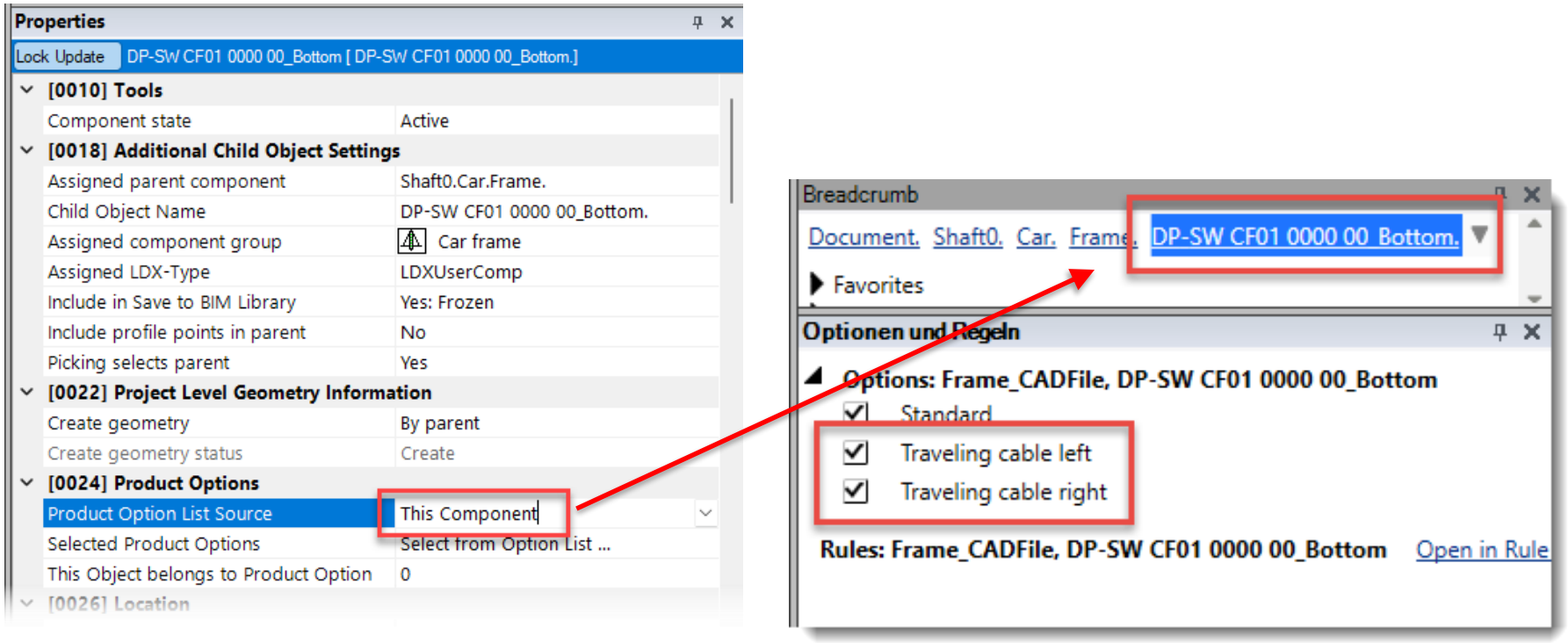



# Define new and customize copied Product Options

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

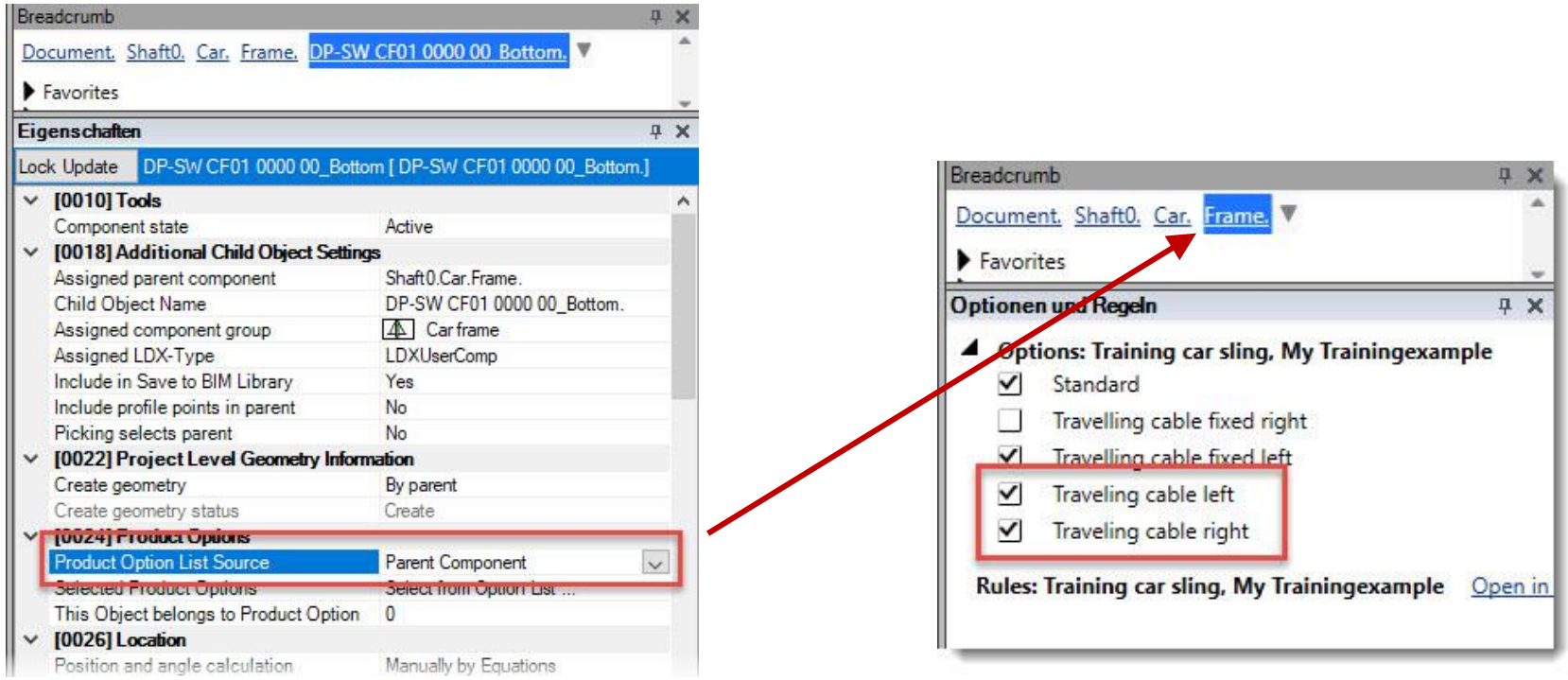


# Define new and customize copied Product Options

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

## View the created Product Options related to the parent BIM Component

- … in DigiPara Liftdesigner via the Properties Window

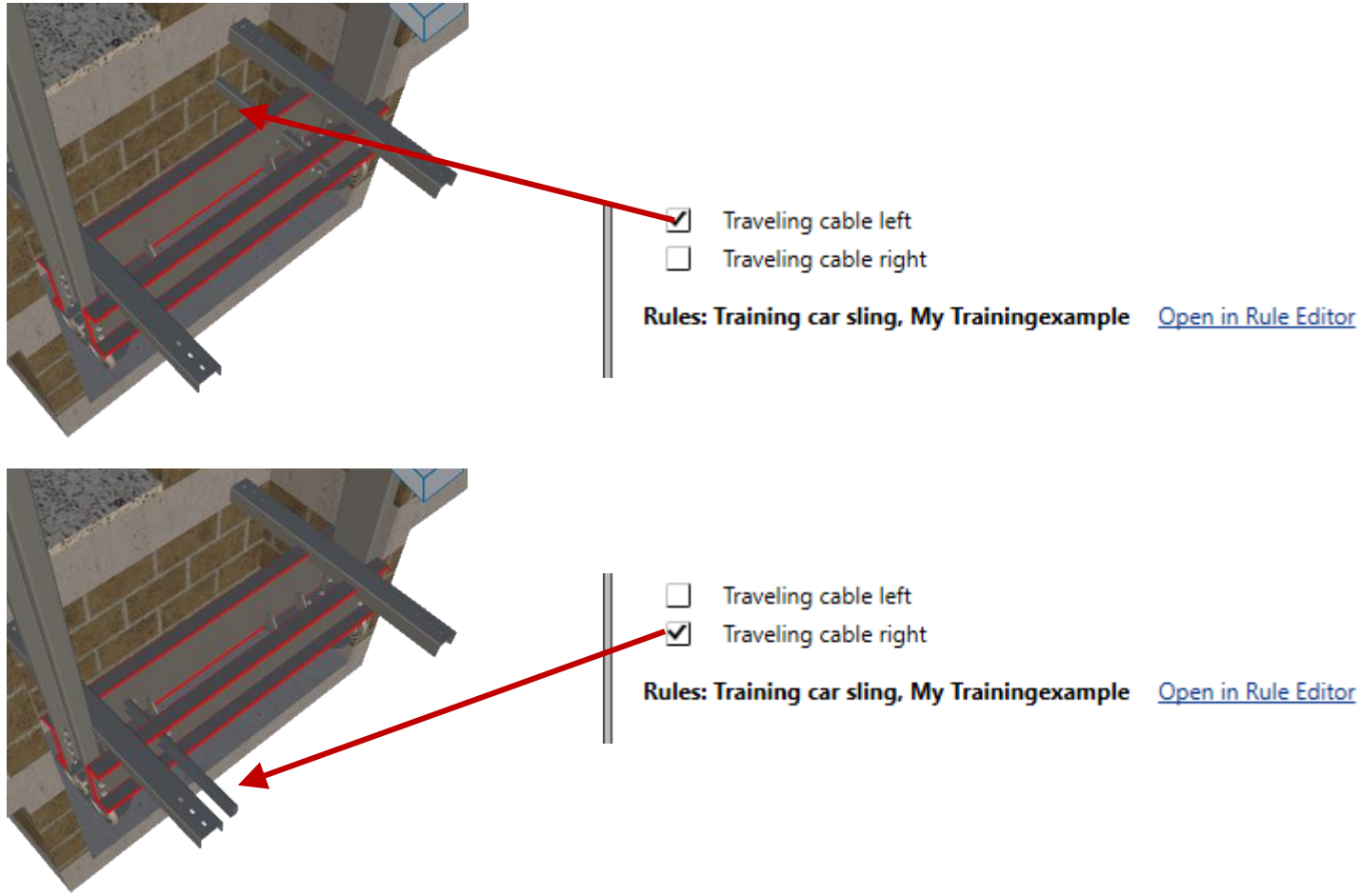


# Define new and customize copied Product Options

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

## Check the new Product Options

- … in DigiPara Liftdesigner via: Options and Rules

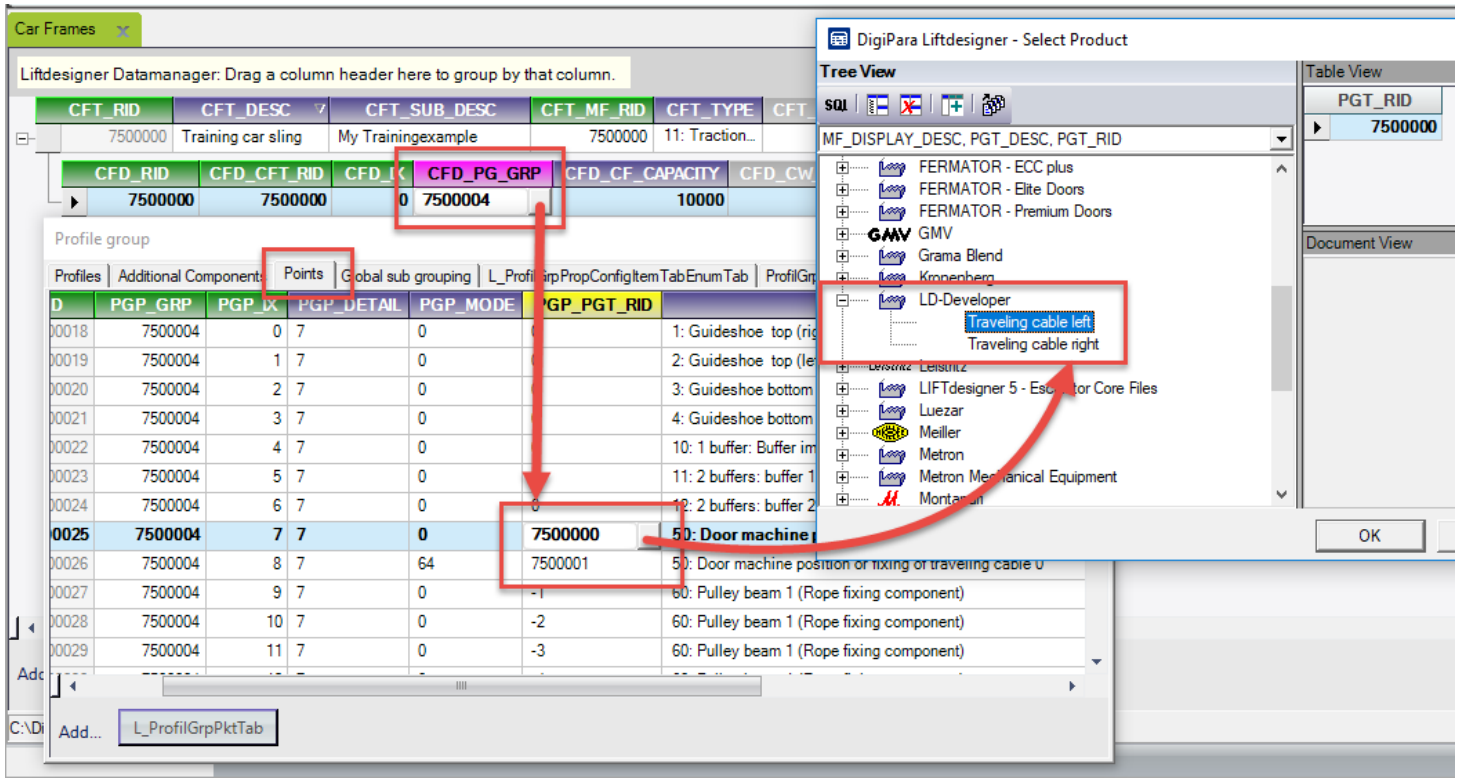



# Define new and customize copied Product Options

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

## Customize existing copied positioning points to the new Product Options

- … in DigiPara Liftdesigner Datamanager

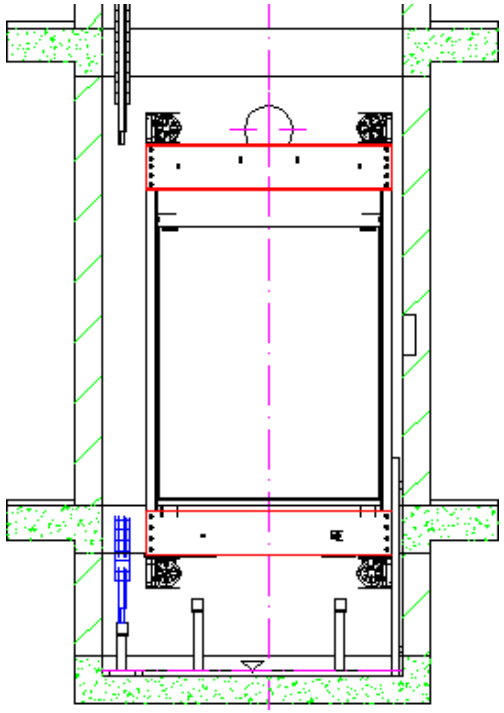


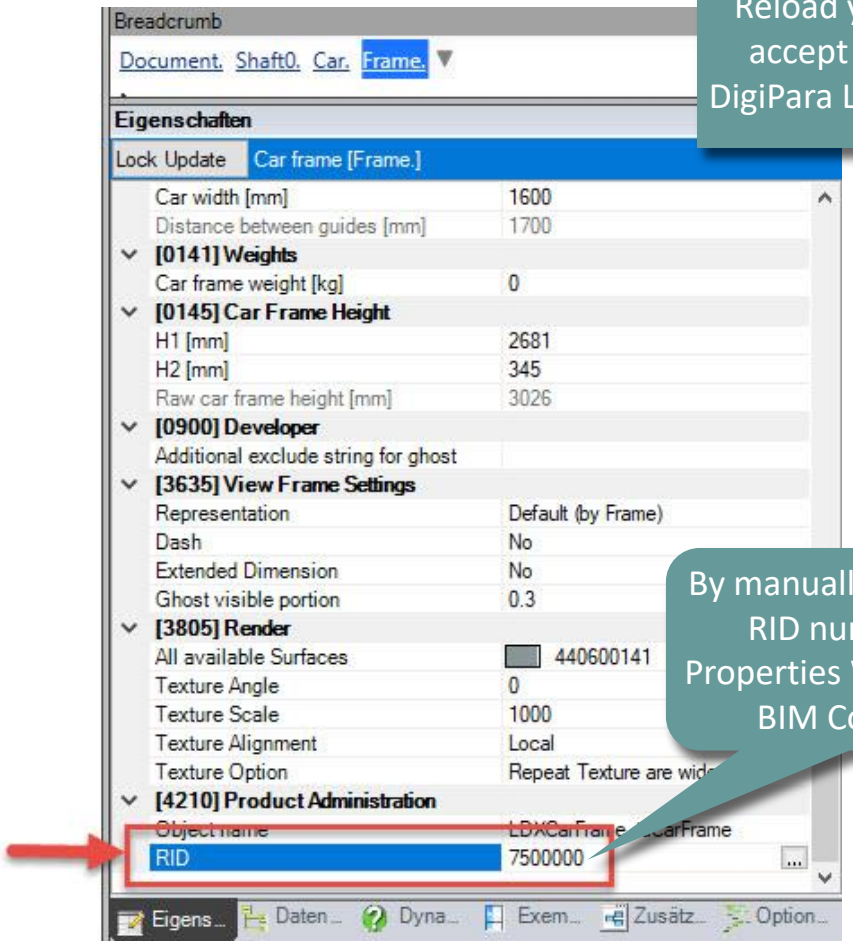
# Define new and customize copied Product Options

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.

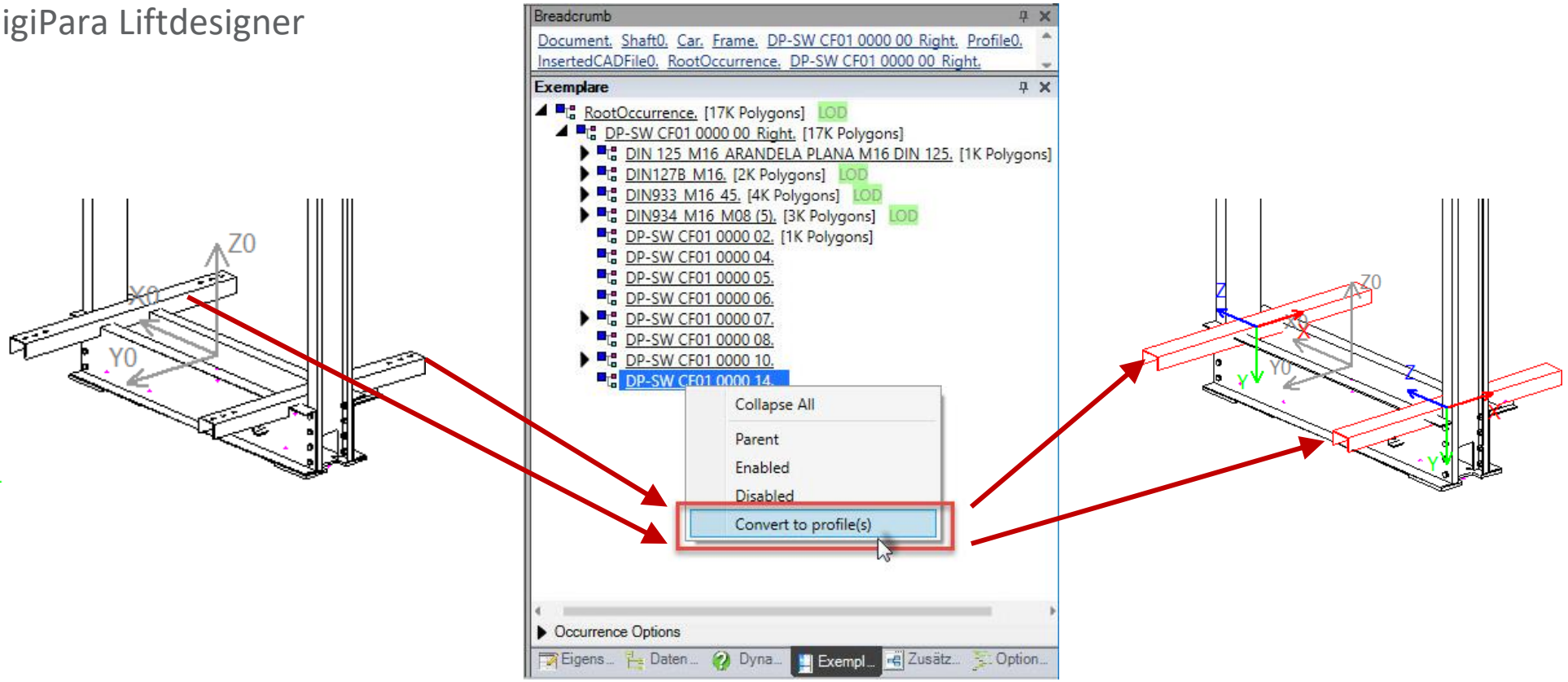
# Prepare and add dynamic BIM Component Rules

# Prepare and add dynamic BIM Component Rules

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

## Preparation Steps – Convert into simplified Profiles

- … in DigiPara Liftdesigner

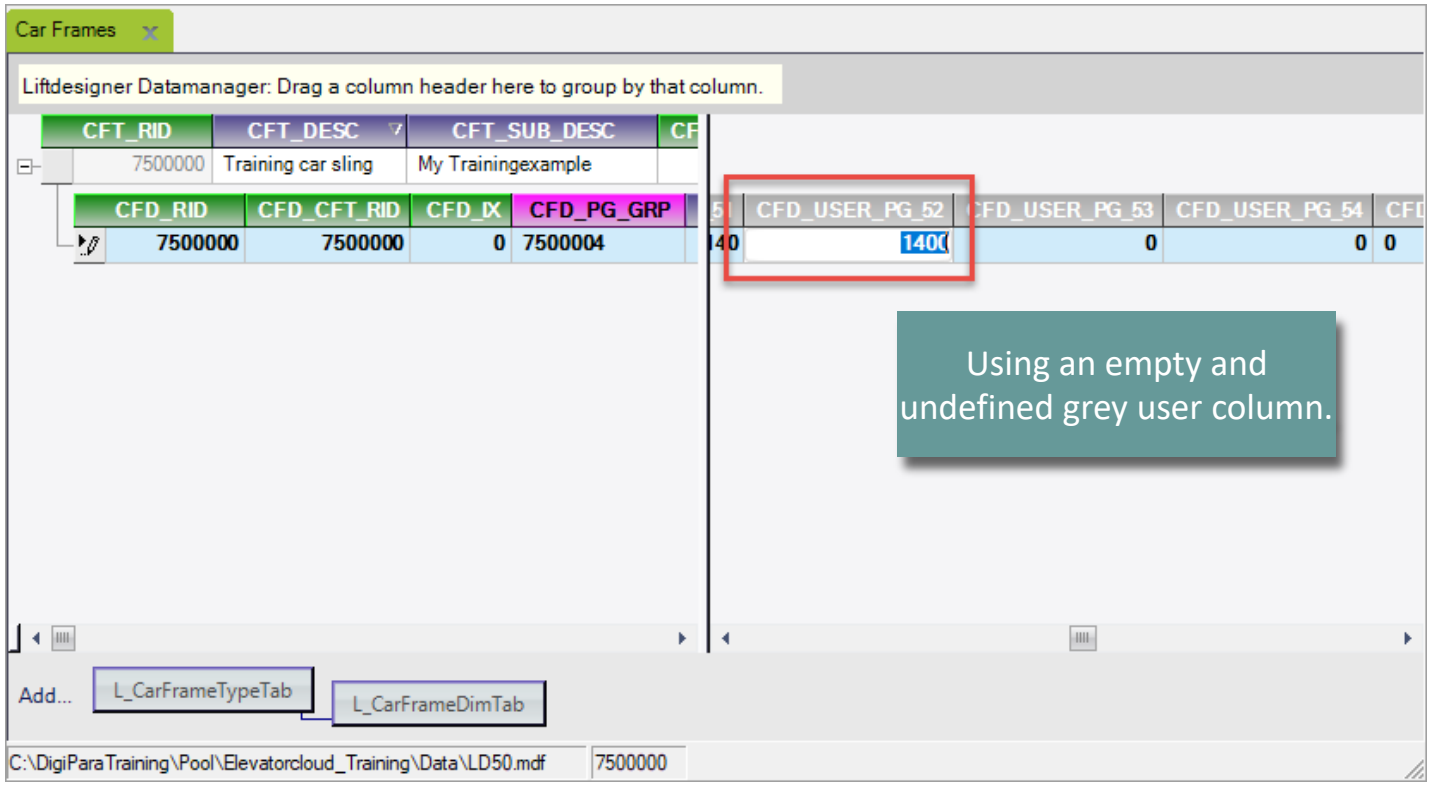


# Prepare and add dynamic BIM Component Rules

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

## Preparation Steps – Create a user defined 3D Parameter

- … in DigiPara Liftdesigner Datamanager

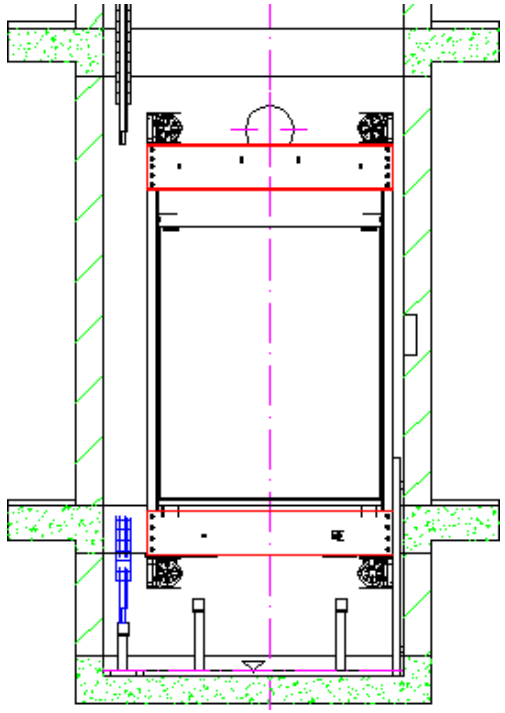


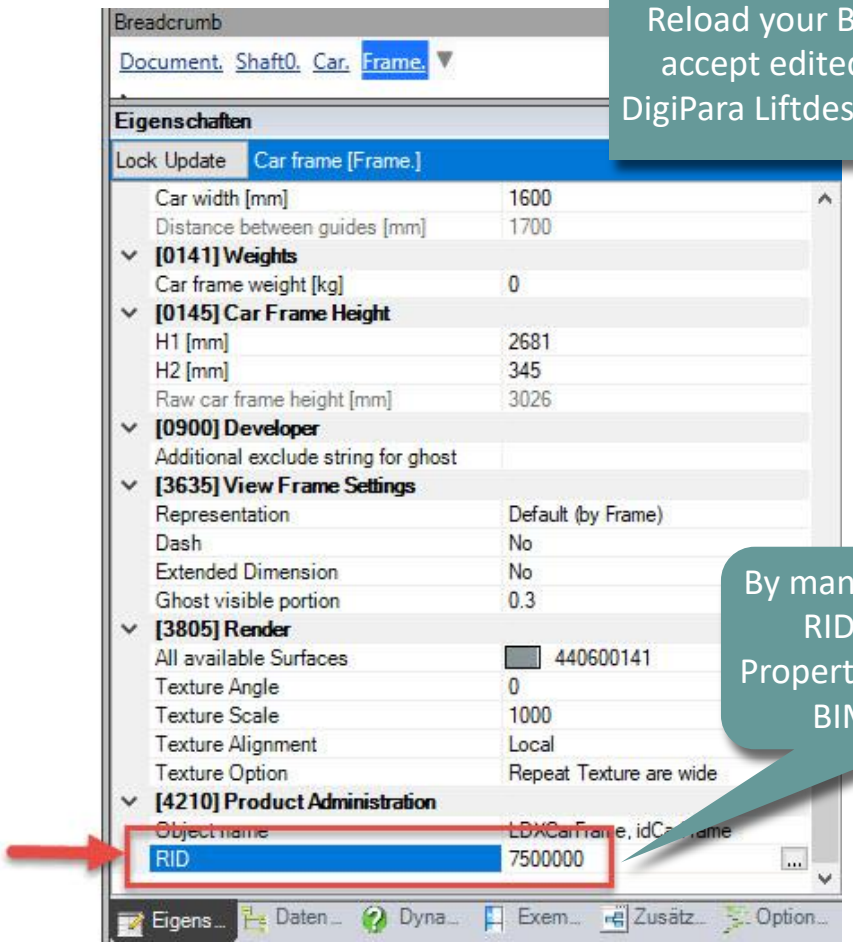
# Prepare and add dynamic BIM Component Rules

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.

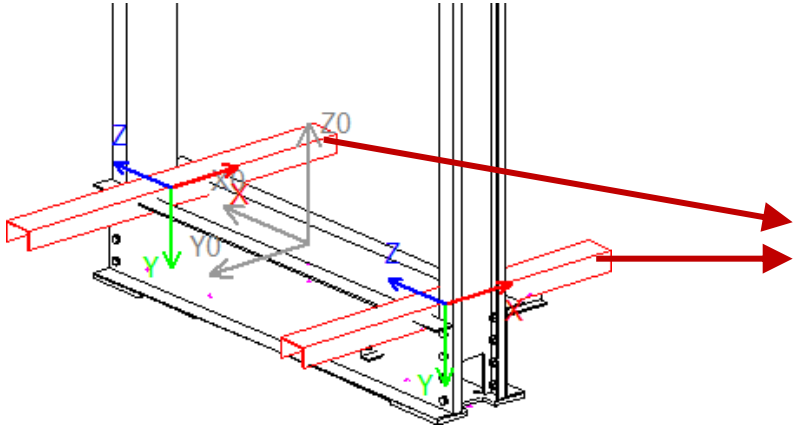
By manually swapping the RID number in the Properties Window for the BIM Component.

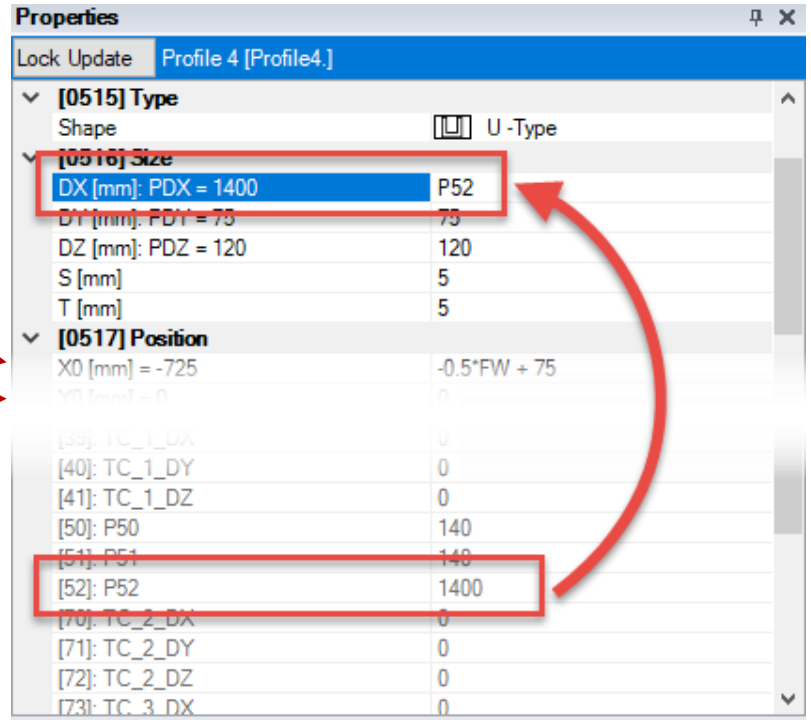
# Prepare and add dynamic BIM Component Rules

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

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

- … in DigiPara Liftdesigner



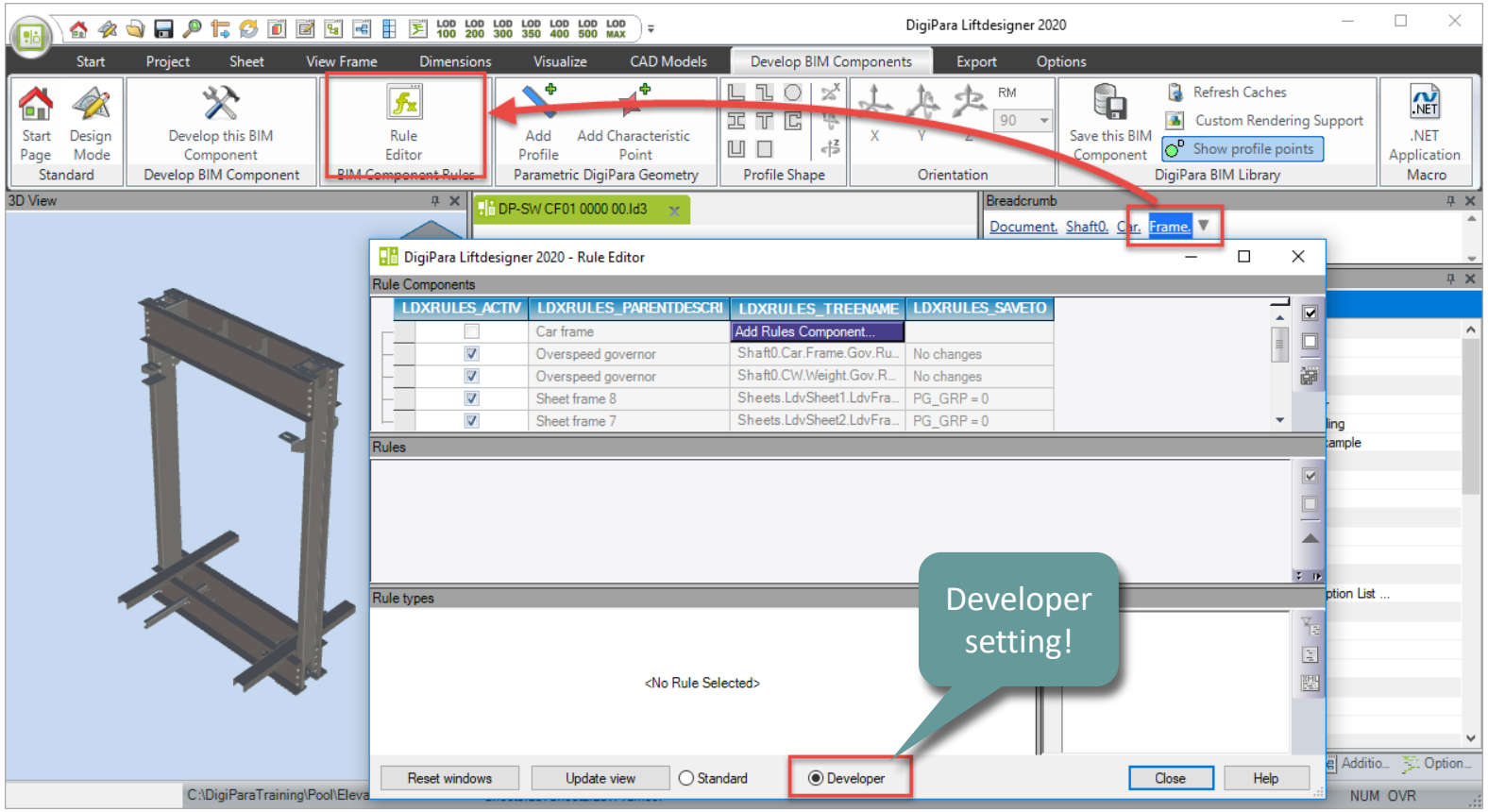



# Prepare and add dynamic BIM Component Rules

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

## Add dynamic BIM Component Rules

- … in DigiPara Liftdesigner Rule Editor

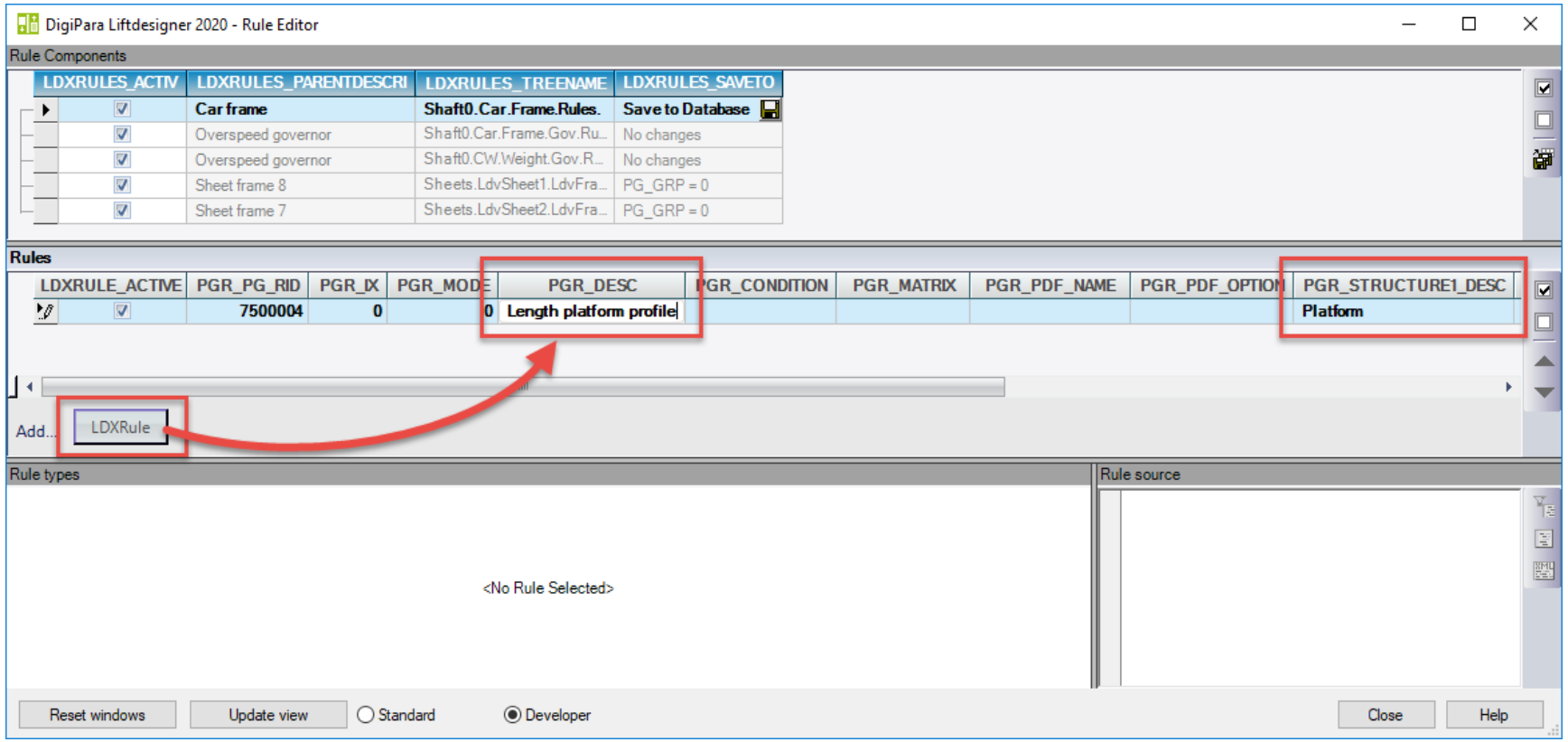


# Prepare and add dynamic BIM Component Rules

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

## Define dynamic Rules: Description and Tree Structure

- … in DigiPara Liftdesigner Rule Editor

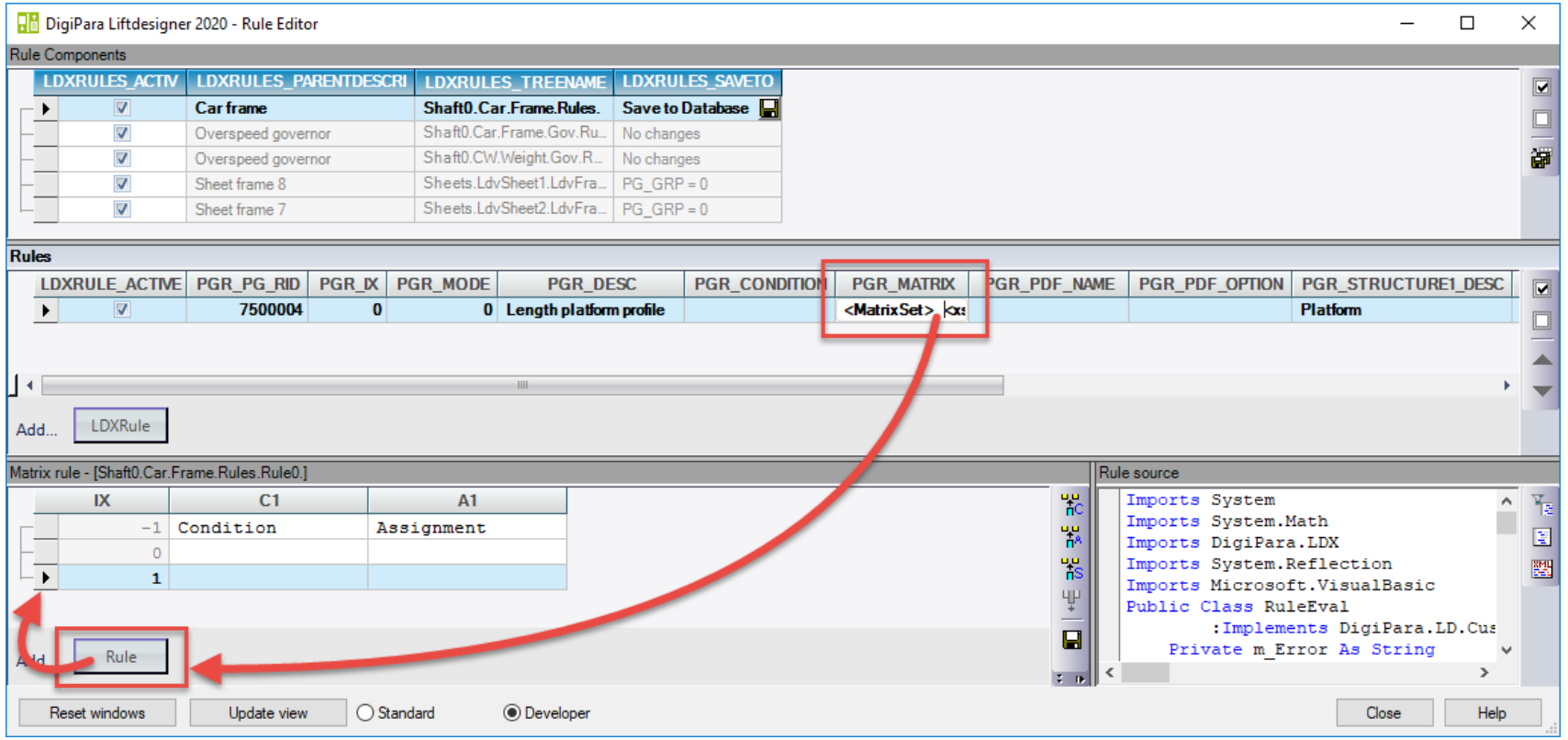


# Prepare and add dynamic BIM Component Rules

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

## Define dynamic Rules: Condition and Assignment

- … in DigiPara Liftdesigner Rule Editor



# Prepare and add dynamic BIM Component Rules

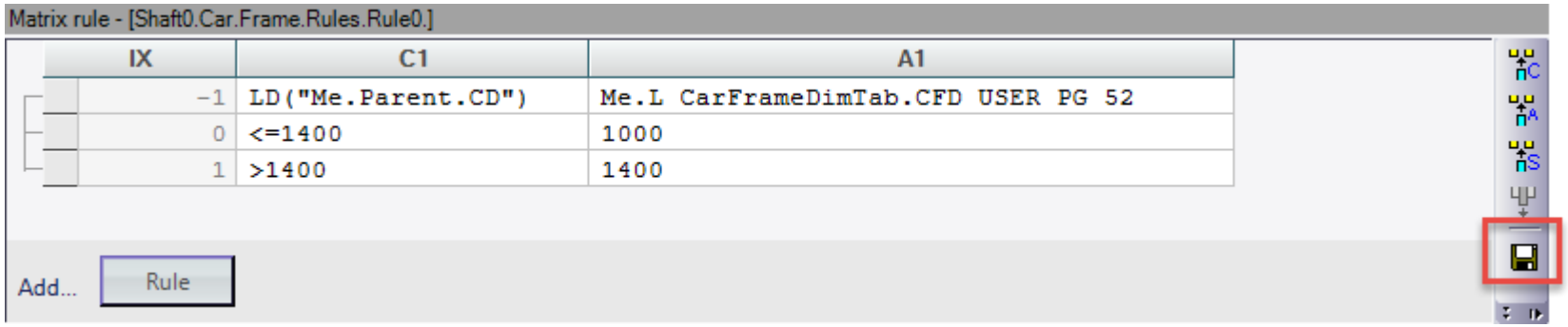
PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

## Define dynamic Rules: Condition and Assignment

- … in DigiPara Liftdesigner Rule Editor

Car Depth

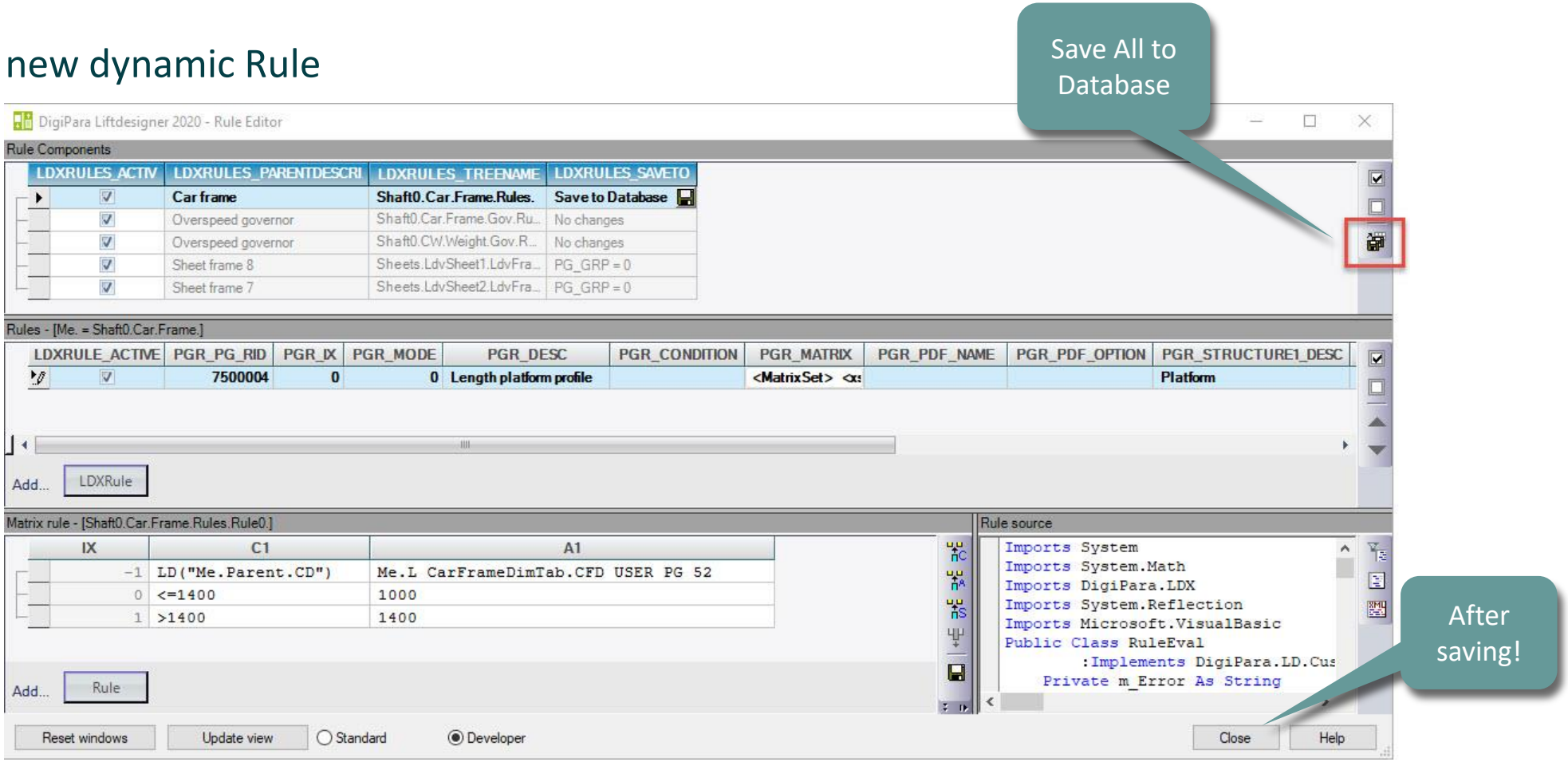
User defined 3D Parameter



# Prepare and add dynamic BIM Component Rules

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

## Save your new dynamic Rule



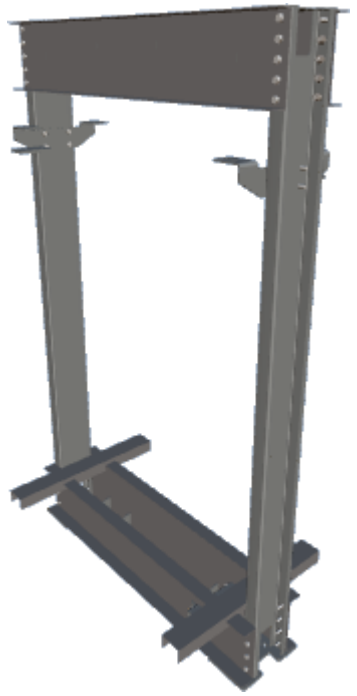
# Prepare and add dynamic BIM Component Rules

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

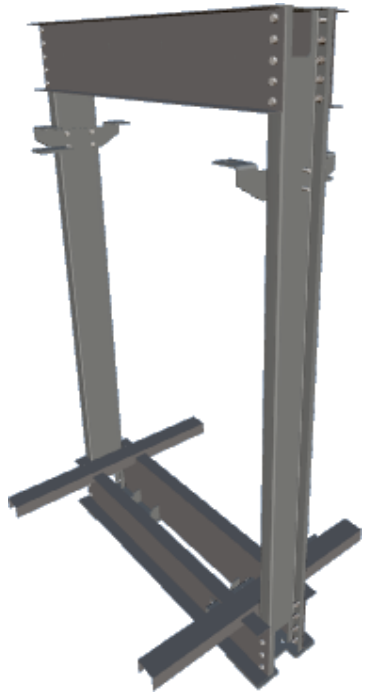
## Testing the new dynamic Rule

- … in DigiPara Liftdesigner

Car Depth <=1400



Car Depth >1400

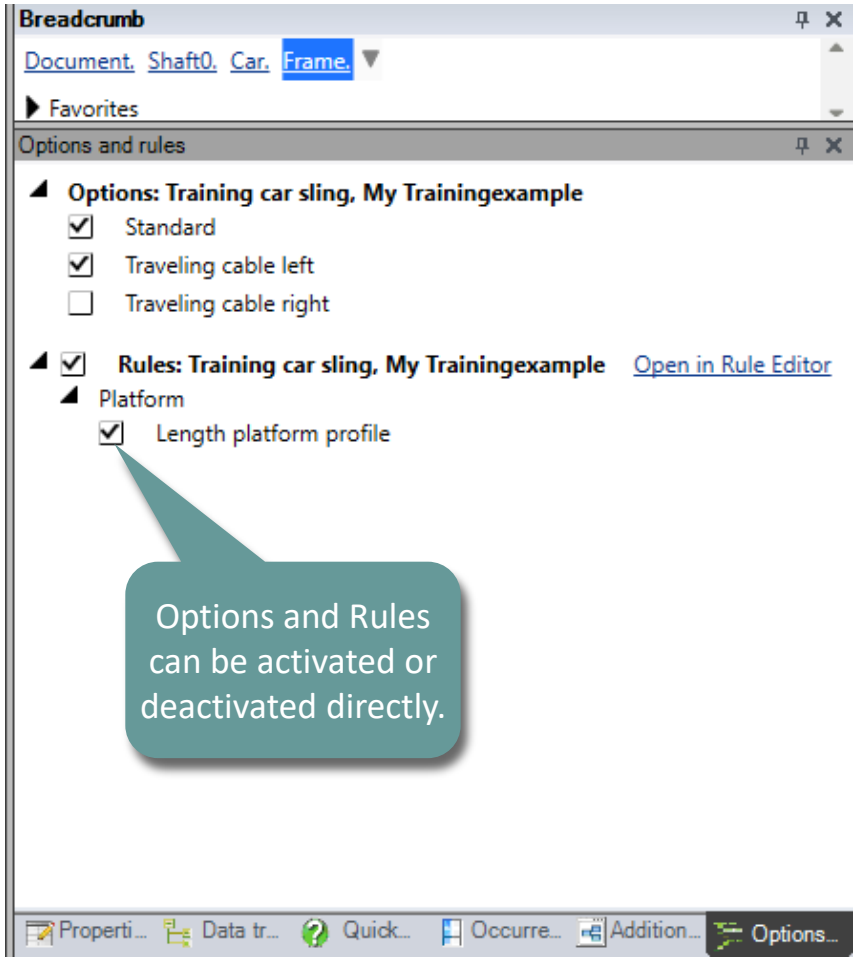


# Prepare and add dynamic BIM Component Rules

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

## Options and Rules

- … in DigiPara Liftdesigner

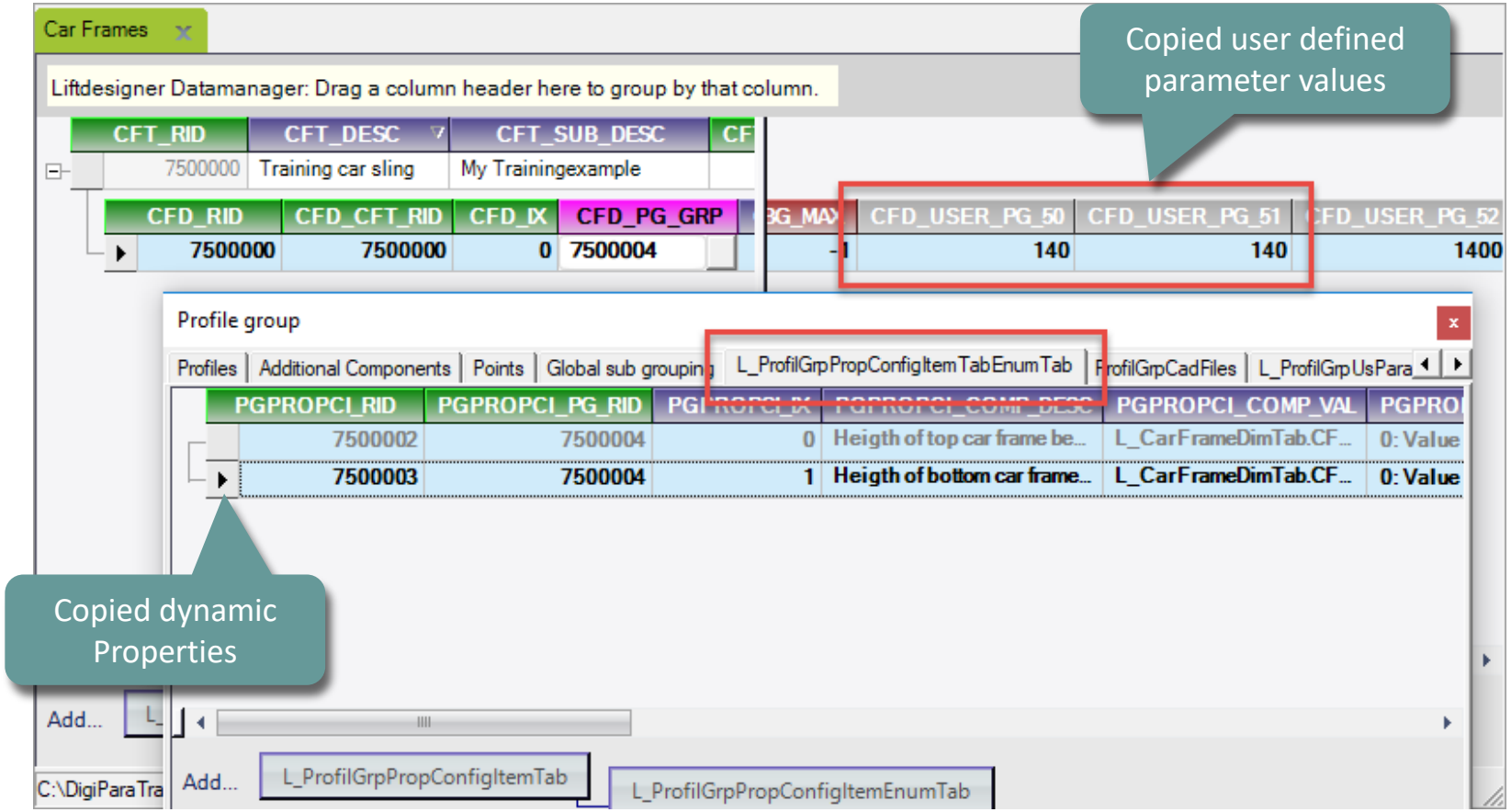


# Delete unneeded Data

# Delete unneeded Data

PL3.4 DYNAMIC BIM COMPONENT: CAR FRAME

- … in DigiPara Liftdesigner Datamanager



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# PL3.5

Summary & 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.

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