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Are you an attendee in a DigiPara Liftdesigner online training module?

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

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B1.1 Dimensions

- Editable Dimensions (Print Mode / Edit Mode)
- Resulting Dimensions (Greyed Out Dimensions)
- Chain Dimensions (Shaft depth, width, etc.)
- Document Settings (Unit)

B1.3 Dimension Properties

- Dimension Multi-Select
- Dimension ID's
- Dimension Chain Description
- Properties Settings

B1.2 Dimension Layout

- Standard Component Dimensions
- Extended Component Dimensions
- Dimension Settings

B1.4 Dimension Prefix

- Global And View Frame Related
- Special Prefix Options
- Using Data Tree References
- Practical Examples

Agenda

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B1.5 Dimension Representation

- Additional Dimension Display Option
- Background Settings

B1.7 Overwrites

- Dimension Overwrites
- Component Overwrites
- Annotation Overwrites
- *Operations
- Extended *Operations & Combinations

B1.6 Dynamic Dimension

- Dimension Settings
- Add Own Dynamic Dimensions
- Use Of Selection Mode
- Dynamic Dimension Point x, y or z-Offset

B1.8 Manage Sheet Groups

- Preparation Step
- Managing Operations
- Option Tags

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B1.9 Practice

- Practice: Chain Dimensions
- Practice: Dimension Properties & Dynamic Dimension
- Practice: Overwrites

B1.10 Summary

Custom Q&A's

Training Preparation

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CREATE AN ELEVATOR WITH THE FOLLOWING SPECIFICATIONS:

- Consider travel no
- Create building floor levels no
- 5 Floors
 - Typical floor to floor distance 3000
- Traction elevator 2:1
 - 13 persons / 1000 kg, 1 m/s
 - with CW safety gear
- Machine room
 - Below / left
- Car roping
 - 2 pulleys below
- CW roping right
 - 1 pulley top
- Car size 1600 mm x 1400 mm

- Sheet Templates:
 - LD Installation Drawing
 - LD Typical Views For Your Elevator
- Entrances
 - Front: all floors
 - Rear: first and last level
- Individual Floor to Floor Distance:
 - Pit: 1200 mm
 - E1: 2900 mm
 - E2: 3000 mm
 - E3: 3000 mm
 - E4: 3800 mm
- Save the project under the following file name:
 - LDTrainingSample.ld3

Training Preparation CREATE AN ELEVATOR WITH THE FOLLOWING SPECIFICATIONS:

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The result should look as shown below:



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B1.1

Dimensions

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Editable Dimensions

B1.1 DIMENSIONS

Editing a dimension value in DigiPara Liftdesigner changes the 3D BIM model

• by e.g. changing the car width



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Editable Dimensions

B1.1 DIMENSIONS

Can be changed

- via the dimension properties
- or by double clicking on it
- Only dimensions with a blue dimension text can be edited



Changing dimension values in Design Mode (hatches turned off)



Resulting Dimensions

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Resulting or grayed out dimension can not be edited

Only some special dimensions like e.g. the SW and the SD can be changed indirectly



Chain dimensions

B1.1 DIMENSIONS

Chain Dimensions

- Like the shaft width (SW) and depth (SD) consist of a chain of dimensions
- The values, these dimensions consist of, can be changed via the Properties docking window





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Edit Project Units via the Document Properties

Document Settings

B1.1 DIMENSIONS

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B1.2

Dimension Layout





General B1.2 DIMENSION LAYOUT

Standard component dimensions

Dimension which are displayed by default in a new view frame



Extended Component Dimensions

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B1.2 DIMENSION LAYOUT

Extended component dimensions

- Are displayed temporarily when selecting a component
- Can be made visible permanently via the Show Extended Component Dimensions item in the View frame tab
- Selection group









Activating extended component dimensions by clicking on the corresponding component



Dimension Settings B1.2 DIMENSION LAYOUT

DI.2 DIMENSION LATOOT

- Provides dimension layout specific operations
 - 1. Change the first dimension extension line
 - 2. Change the second dimension extension line
 - 3. Change the first arrowhead symbol
 - 4. Change the second arrowhead symbol
 - 5. Change the horizontal position of the selected
 - 6. Change the vertical position of the selected dimension / dimensions
 - 7. Change the horizontal dimension text position
 - 8. Change the vertical dimension text position
 - 9. Show disabled / switched off dimensions
 - 10. Reset the selected dimension arrangement
 - 11. Activate all dimensions



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Dimension Settings

B1.2 DIMENSION LAYOUT

Extension line settings can be set as follows:

Se

- for a single dimension
- for a single view frame
- for an individual sheet
- for all drawing sheets

via the Properties

Pro	operties		 д	×
Loc	ck Update	Sheet frame 2 [LdvFrame2.]		
Y Origin			Bottom edge of the geometry	
	Symbol	scale factor	0.05	
	Symbol	scale calculation	Automatically	
			'0°	
σς	on th	 ail section 		
55 . . .		on .	No	
V TI	rame	tical positions in this se	ection	
		n	Default	
	Car gho	st position	Default (opposite to car)	
	Counter	weight position	Default (Opposite to car)	
	Counter	weight ghost position	Default (opposite to CW)	I
×	[3621]	Dimensions		
	Settings		Default (by Sheet)	
	Extensio	n Lines	Default (by Sheet) 🛛 🖂	L
	Dimensi	on chain description visible	Standard	I
	Dimensi	on chain description location	Short	I
×	[3622]	Clipping Plane	None	I
	Car sect	ion clipping plane relative	Default (by Sheet)	I
	Car sect	ion clipping plane distance [h 300	
 ~	[3623]	Dimension Groups		
				- 11

Pro	operties		ч х
Loc	k Update Sheets [Sheets.]		
	Rounding	# 1 mm	
	Project unit	Metric	
~	[0100] Settings		
	Drawing Language	German - Sta	adaed - [1021]
	Secondary Drawing Language	German - Sta	
	View mode	Print Mode	Settings for all
~	[2001] Level of Development (L	OD)	sneets
	Representation	LOD 400	
	Max. Occurrence Display Mode	Polygons	
~	[2500] Drawing Style		
	Render Mode	Lines	
Y	[3621] Dimensions		
1	Extension Lines	Short	\sim
×.	Settings	Default (by Pr	ototype DWG)

Dimension Settings B1.2 DIMENSION LAYOUT

1.2 DIMENSION LAYOUT

Dimension text heights and dimension chain distances can be edited via the properties of

- the selected view frame
- or sheets



Brei	adcrumb		д	×
Do	cument, Sheets, LdvSheet1,	LdvFrame5. 🔻		-
				1
	Favorites			
	Project Favorites			Ŧ
Pro	perties		դ	×
Loc	k Update Sheet frame 5 [LdvFrame	5.]		
	X0 [mm]	510		^
	Y0 [mm]	100		
	Scale value	1:20		
	X origin	Car BP		
	Y Origin	Bottom edge of the geometry		
	Symbol scale factor	0.05		
	Symbol scale calculation	Automatically		
	Rotation	'0°		
 ~	[3613] Detail section			
	Detail section	No		
۲	[3620] Vertical positions in this see	ction		
	Car position	Default		
	Car ghost position	Default (opposite to car)		
	Counterweight position	Default (Opposite to car)		
	Counterweight ghost position	Default (opposite to CW)		
۱ ~	[3621] Dimensions			-
	Settings	Default (by Sheet)	1	4
	Extension Lines	Default (by Sheet)		
	Dimension chain description ble	Individual		
	Dimension chain description location			
ľ	[3622] Clipping Plane	D (1 (0.0 t 1) 1 ()		
	Car section clipping plane relative	Default (0.9 ° car height)		- 10

Switching the Dimensions \rightarrow Settings property value into Individual first

Bre	adcrumb	д Х
De	cument Sheets V	A
	onces.	
 	Favorites	
	Project Favorites	-
Pro	operties	д Х
Loc	k Update Sheets [Sheets.]	
~	[0000] Project Units	
	Dimension Unit	Metric
	Unit length	mm
	Rounding	#1mm
	Project unit	Metric
 ~	[0100] Settings	
	Drawing Language	English - United States - [1033]
	Secondary Drawing Language	English - United States - [1033]
	Plot style name	Color without line weight
	Prototype DWG name	C:\LD_POOLS\POOL21\Training\dwg\Tables2
	Layer group name	Autocad 2000 Metric
	View mode	Print Mode
 ~	[2001] Level of Development (LO)
	Representation	LOD 400
	Max. Occurrence Display Mode	Polygons
 ~	[3621] Dimensions	
	Extension Lines	hort
	Settings	Default (by Prototype DWG)
	Dimension chain description location	r Individual
 ~	[4210] Product Administration	Default (by Prototype DWG)
	Object name	contoneoto, idonocio
~	[4230] Sloppy Mode Options	
	Save Undo (0.019 sec)	Skip
	.NET Applications (0.0012 sec)	Execute

Dimension Settings B1.2 DIMENSION LAYOUT

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4 X

Dimension text heights and dimension chain distances

Adapting the values via the corresponding properties



Properties

Lock Update

Sheet frame 5 [LdvFrame5.]

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B1.3

Dimension Properties





Dimension Multi-Select

B1.3 DIMENSION PROPERTIES

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Are displayed by clicking on a dimension in the drawing



Pro	perties		д	\mathbf{x}
Loc	k Update AR_WALL_DIST = 1002.5			
~	[0495] General			
	Value [mm]	1002.5		
~	[3635] View Frame Settings			
	Dimension-ID	184		
	Prefix (related to frame)			
	Dimension chain	Automatically		
	Dimension chain Left / Right	Automatically		
	Enabled	Yes		
	Dimension Text hor.	Centered		
	Dimension Text ver.	Default		
	Extension line 1st	Default (by Frame)		
	Extension line 2nd	Default (by Frame)		
	Arrowhead 1st	ByDimstyle (LIFT)		
	Arrowhead 2nd	ByDimstyle (LIFT)		
	Additional dimension display options	Default		
>	Move	0/0/0		

Dimension Multi-Select

B1.3 DIMENSION PROPERTIES

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When selecting more then one dimensions, only layout specific properties will be displayed



Pro	operties			д	×
Lo	ck Update	Multi selection (3)			
~	Misc				
	Dimensior	1-ID	184		
	Dimension	n Group	0		
	Prefix				
	Prefix (rela	ated to frame)			
	Dimension	chain description			
	Dimension	i chain	Automatically		
	Dimension	n chain Left / Right	Automatically		
	Enabled		Yes		
	Dimension	Text hor.	Centered		
	Dimension	Text ver.	Default		
	Extension	line 1st	Default (by Frame)		
	Extension	line 2nd	Default (by Frame)		
	Arrowhead	l 1st	ByDimstyle (LIFT)		
	Arrowhead	i 2nd	ByDimstyle (LIFT)		
	Additional	dimension display options			
>	Move				



Dimension ID's B1.3 DIMENSION PROPERTIES

The dimension alignment is determined by dimension ID's

- Each dimension ID can be changed individually
- If a dimension was moved manually, the query for the Dimension-ID is interrupted.



Dimension Chain Description

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B1.3 DIMENSION PROPERTIES

 The selected global dimension chain description will be changed in all views and all other projects (new as well as old projects)





Dimension

n -		
Pro	openies	
Loc	ck Update DBG = 1100	
×	[0495] General	
	Value [mm]	1100
Y	[3635] View Frame Settings	
	Dimension-ID	301
	Prefix (related to frame)	
	Dimension chain	Automatically
	Dimension chain Left / Right	Automatically
	Enabled	Yes
	Dimension Text hor.	Centered
	Dimension Text ver.	Default
	Extension line 1st	Default (by Frame)
	Extension line 2nd	Default (by Frame)
	Arrowhead 1st	ByDimstyle (LIFT)
	Arrowhead 2nd	ByDimstyle (LIFT)
	Additional dimension display op	tic 🔲 Default
>	Move	0/0/0
¥	[3650] Global Dimension Sett	ings
	Dimension Group	0
۱.	Prefix	External@("MSGGRP0.MSG5"
1	Dimension chain description	External\$("MSGGRP0.MSG5
V	[4210] Froduct Auministration	
	Object name	LDXObjectDim, idObjectDim

Dimension Chain Description

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B1.3 DIMENSION PROPERTIES

• The dimension descriptions can also be shown/hidden via the properties of the view frame.

Pro	operties 4					
Loc	k Update Sheet frame 7 [LdvFrame7.]					
	Detail section	No				
>	[3620] Vertical positions in this see	ction				
~	[3621] Dimensions					
	Settings	Default (by Sheet)				
	Extension Lines	Default (by Sheet)				
	Dimension chain description visible	Yes				
	Dimension chain description location	Default (by Sheet)				
>	[3622] Clipping Plane	Yes				
~	[3623] Dimension Groups	No				



Dimension Chain Description

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B1.3 DIMENSION PROPERTIES

Align Dimension Ca	ption				Breadcrun	ıb			дх
via the Properties	s related to the din	nension, vie	w fr	ame or sheet	Documer Eavorit	nt. <u>She</u>	eet. LdvSheet0. ▼		<u> </u>
					Properties	5			д X
		B	readcrum	ıb 📃 🚽		д х	eet 0 [LdvSheet0.]		
			Documen	nt. Sheets. LdvSheet3 LdvFra	ame2. 🔻	1	ral		
	Breadcrumb		Ψ×.	۰ <i>۲</i>			number		
	Document. Shaft(, WIDTH		^	3		ф,	e count	No	
	Favorites			te Sheet frame 2 II dvErame2	1		of pages	0	
	Properties				- -			work area	
			T ~ 4	F) Vertical positions in this section.	Default		er		
	Lock Update WIDTH = 2200			host position	Default (opposite to car)		lot	No	
	Dimension-ID	30000	^	erweight position	Default (Opposite to car)		largin	5	
	Prefix (related to frame)	A	t	erweight ghost position	Default (opposite to CW)			🛄 Ali	
	Dimension chain	Automatically	5	5] Dimensions			of Development (LOD)		
	Enabled Disconsister Tout has	Yes		gs	Default (by Sheet)		'n	Default (by Sheets)	
	Dimension Text vor	Default	B	sion Lines	Default (by Sheet)		nsions	D () ()	
	Extension line 1st	Default (by Frame)		sion chain description visible	Default (by Sheet)	_	es	Default (by Document)	
	Extension line 2nd	Default (by Frame)		nsion chain description location	Right	\sim	ain deperintion visible	Default (by Document)	
	Arrowhead 1st	ByDimstyle (LIFT)	6	6] Dimension Groups	Default (by Sheet)		ain description location	Bight	
	Arrowhead 2nd	ByDimstyle (LIFT)		niclist	Left		uct Administration	Default (by Document)	¥
	Additional dimension display options	Default		/] Plan View	Right			Left	
	> Move	0/0/0		floor (Plan View)	Counterclockwise			Right	
	Dimension chain description visible	Default (by Frame)		Direction	trom top	_		Clockwise	
	Dimension chain description location	Right	\sim	11 Clipping Plane		_	3D View 📝 Propert	ti Counterclockwise	
	✓ [3650] Global Dimension Settings	Default (by Frame)		ection clipping plane relative	Default (0.9 * car beight)	_		NUM OVR	
	Dimension Group	Left		ection clipping plane distance in	n 500				
	Prefix	Right		2] Shaft section					
	Dimension chain description	Counterclockwise			M-	~			
	Chiest and Chiest and Chiest and Chiest								
	- object name	concoporonn, lacoporonn	· · ·						

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Arranging dimensions above and below

The entire dimensioning chain is arranged, even if only one dimension has been activated.





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Activate / deactivate individual dimensions

• Via properties



perties			д
Update	XLEFT = 450		
[0692] E	Background		
Backgrou	und Mask	Use style background color	
[3635] \	/iew Frame Settings		
Dimensio	n-ID	20	
Prefix (re	lated to frame)		
Dimensio	on chain	Automatically	
Dimensio	on chain Left / Right	Automatically	
Enabled		No	\sim
Dimensio	on Text hor.	Yes	
Dimensio	on Text ver.	No	
	Update [0692] E Backgrou [3635] V Dimensic Dimensic Dimensic Dimensic Dimensic Dimensic Dimensic	Update XLEFT = 450 [0692] Background Background Mask [3635] View Frame Settings Dimension-ID Prefix (related to frame) Dimension chain Dimension chain Left / Right Enabled Dimension Text hor. Dimension Text ver.	Derties Update XLEFT = 450 [0692] Background [0692] Background Mask Use style background color Background Mask Use style background color [0693] View Frame Settings Dimension-ID 20 Prefix (related to frame) 20 Dimension chain Automatically Dimension chain Left / Right Automatically Enabled No Dimension Text hor. Yes Dimension Text ver. No



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Aligning the dimension text vertically and horizontally

• The dimension text alignment can be configured individually per dimension

Properties			4 х
Lock Update	DY = 100		
🗸 🗸 🗸 🗸 🗸	eneral		
Value [mm]	100	
🛛 🗸 🕹 🕹 🕹 🕹 🕹	ew Frame Settings		
Dimension	i-ID	8000	
Prefix (rela	ated to frame)		
Dimension	i chain	Automatically	
Dimension	chain Left / Right	Automatically	
Enabled		Yes	
Dimension	Text hor.	Centered	\sim
Dimension	Text ver.	Left	
Extension	line 1st	Centered	
Extension	line 2nd	Right	
Arrowhead	l 1st	By Imerye (LIE	9
Arrowhead	2nd	ByDimstyle (LIF)	Γ)
Additional	dimension display	opt 📃 Default	
> Move		0/0/0	
11 - 125 01 GI	obal Dimension Se		
eft	Cente	er	Right
	100		1 1

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Aligning the dimension text vertically and horizontally

• The dimension text alignment can be configured individually per dimension

Pro	operties		д	×	
Loc	k Update DY = 100				
×	[0495] General				
	Value [mm]	100			
×	[3635] View Frame Settings				
	Dimension-ID	8000			
	Prefix (related to frame)				
	Dimension chain	Automatic	cally		
	Dimension chain Left / Right	Automatic	cally		
	Enabled	Yes			
	Dimension Text hor.	Centered			
	Dimension Text ver.	Above		\sim	
	Extension line 1st	Above			
	Extension line 2nd	Default			
	Arrowhead 1st	Eelow			
	Arrowhead 2nd	Niddle			
	Additional dimension display of	41 11 11 A	ar ilf		
>	Move	/0/0		_	
	[3650] Global Timension Se	times			
		•	4		
1	Above Defa	ult	Middle	e	Below
			_		_
	100				
	100			_	
-			- 100 T	-	







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B1.4

Dimension Prefix





Adding or changing the global dimension prefix (not recommended)

 The selected global dimension prefix will be changed in all views and all other projects (new as well as old projects)



Lock Update WIDTH = 1650			
	Right distance counterweight / wal	140	^
	Resulting shaft width [mm]	1650	
⊿	[0495] General		
	Value [mm]	1650	
⊿	[3635] View Frame Settings		
	Dimension-ID	30000	
	Prefix (related to frame)		
	Dimension chain	Automatically	
	Dimension chain Left / Right	Automatically	
	Enabled	Yes	
	Dimension Text hor.	Centered	
	Dimension Text ver.	Default	
	Extension line 1st	Standard	
	Extension line 2nd	Standard	
	Arrowhead 1st	ByDimstyle (LIFT)	
	Arrowhead 2nd	ByDimstyle (LIFT)	
	Additional dimension display optio 🛄 Default		
\triangleright	Move	0/0/0	
⊿	[3650] Global Dimension Settings		
E	Dimension Group	0	1
	Prefix	Shaft width =	L
7-	Dimension chain description	External\$("MSGGRP0.MSG576")	۰.
4	[4210] Product Administration		
	Object name	LDXObjectDim, idObjectDim	v

View Frame Related Prefix

B1.4 DIMENSION PREFIX

Adding or changing the local, view frame related, dimension prefix (<u>recommended</u>)

• Frame related prefixes affect the selected dimension in the current view frame only


Special Prefix Options

B1.4 DIMENSION PREFIX

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External\$'s from the Data tree can also be used.

Using Data Tree References

B1.4 DIMENSION PREFIX

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Using data tree references and special prefix options in one



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Extension line 1st Default (by Frame) Extension line 2nd Default (by Frame) Arrowhead 1st ByDimstyle (LIFT) Arrowhead 2nd ByDimstyle (LIFT) Additional dimension display or 🛄 Default 0/0/0 Move Dimension chain description vis Default (by Frame) ,90 Dimension chain description loc Default (by Frame) DigiPara[®] Liftdesigner Online Training – B1 Sheet Templates | © 2025, DigiPara GmbH



Using data tree references and messages

DW = 1000

DH = 2000

1280

B1.4 DIMENSION PREFIX

Practical Example 1

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Practical Example 1

B1.4 DIMENSION PREFIX

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Using data tree references and messages

• Copy the messages from the global prefix

[3635] View Frame Settings			
Dimension-ID	11		
Prefix (related to frame)	External\$("MSGGRP0.MSG524") <>		
Dimension chain	Automatically		
Enabled	Yes		
Dimension Text hor.	Centered		
Dimension Text ver.	Default		
Extension line 1st	Default (by Frame)		
Extension line 2nd	Default (by Frame)		
Arrowhead 1st	ByDimstyle (LIFT)		
Arrowhead 2nd	ByDimstyle (LIFT)		
Additional dimension display options	Default		
Move	0/0/0		
Dimension chain description visible	Default (by Frame)		
Dimension chain description location	Default (by Frame)		
[3650] Global Dimension Settings	1		
Dimension Group	0		
Prefix	External\$("MSGGRP0.MSG524")		
Dimension chain description	External\$("MSGGRP0.MSG529")		



Using data tree references and messages

Copy height reference from data tree





Data tree

Practical Example 2

B1.4 DIMENSION PREFIX

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Calculation using data tree references and messages

- Dimension "Travel" result in mm and m
- External\$("MSGGRP0.MSG521"): <> mm \ \;#[.0]External\$("Shaft0.LIFT_TRAVEL")/1000\; m



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B1.5

Dimension Representation



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Additional Dimension Display Options

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B1.5 DIMENSION REPRESENTATION

Additional dimension display options (for detail sections)

Default:

Both edges of the geometry, the dimension refers to, are visible

1 point out:

Only one edge of the geometry, the dimension refers to, is visible (detail section view)





Additional Dimension Display Options

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B1.5 DIMENSION REPRESENTATION

Additional dimension display options

2 points out:

Non of the geometry edges, the dimension refers to, is visible (detail section view)

Hint:

 The display option for the corresponding dimension must be selected, before the detail section gets created



Cut At Geometric Limits

B1.5 DIMENSION REPRESENTATION

Additional dimension display options

- Activate the additional dimension display options
- Cuts the extension line with the detail section edge

~	[3635] View Frame Settings	
	Dimension-ID	30000
	Prefix (related to frame)	
	Dimension chain Left / Right	Automatically
	Enabled	Yes
	Dimension Text hor.	Centered
	Dimension Text ver.	Default
	Extension line 1st	Default (by Frame)
	Extension line 2nd	Default (by Frame)
	Arrowhead 1st	ByDimstyle (LIFT)
	Arrowhead 2nd	ByDimstyle (LIFT)
	Additional dimension display options	1 point outside the geometric limits
	Cut at geometric limits	No
Þ	Move	Yes
	Dimension chain description visible	No

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Dimension Background Settings

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B1.5 DIMENSION REPRESENTATION

Edit the background colour of dimensions

- Via properties
 - Set Background Mask to Use Colour
 - Choose a colour



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B1.6

Dynamic Dimension



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- Can be customized individually
- Are DigiPara Liftdesigner non-standard dimensions
- Do not influence the 3D data model



B1.6 DYNAMIC DIMENSIONS

Dimension Settings

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Global Dimension Setting for all new Dynamic Dimensions

Options		
Category	Dimension Settings	
 Global Settings Logging LD30 User Settings User Group Environment Language Directories Liftdesigner Object Visibility Fonts and Colors Properties Window Update Requirements 3D Rendering Dimension Settings 	Dimension Settings Arrowhead 1st Arrowhead 2nd Extension Line 1 Extension Line 2 Additional dimension display options Text vertical Text horizontal Dimension chain Dimension chain	ByDimstyle ByDimstyle Standard Standard Default Above Centered Automatically
		OK Cancel Help

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B1.6 DYNAMIC DIMENSIONS

Select a component to specify the first dimension point.



 Move the mouse cursor over one of the dimension points until the cursor text changes to **DynDim** and click on the left mouse button to select this point.



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B1.6 DYNAMIC DIMENSIONS

 Click and hold the Ctrl key on the keyboard to select a second component. Afterwards release the Ctrl key. Next repeat the steps described under step 2 once again.



 The buttons in the Dynamic Dimensions group are now enabled. Click on one of the buttons to create either a horizontal, vertical or an aligned dimension.

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Project

á ó

Switch

Sheet

Dimensions

Start

Design

Mode

Standard

Start

Page



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B1.6 DYNAMIC DIMENSIONS

Selection Mode

 Allows the selection of individual component profiles including all associated profile points.



B1.6 DYNAMIC DIMENSIONS

Selection Mode

 Allows the selection of individual component profiles including all associated profile points.



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B1.6 DYNAMIC DIMENSIONS

Dynamic dimension point x, y or z-offset

can be a positive or negative value

Add a static value to a dynamic dimension point

Properties		×		
Lock Update DynDim0 = 260				
 [0495] General 				
Value [mm]	260			
Variable name	DynDim0			
Dimension alignment	Vertical			
 [0500] First Dimension Point 				
LD Component dimension point 1	Shaft0.Entries1.E0.ShaftDoor.			
Dimension point 1 x-offset	0			
Dimension point 1 y-offset	0			
Dimension point 1 z-offset	0			
Designation dimension point 1	Point (sill edge left front) [9001]	() () () () () () () () () ()	at 🖗 🖂 💳	
~ [0510] Second Dimension Point				
LD Component dimension point 2	Shaft0.Car.Door1.			
Dimension point 2 x-offset	0			
Dimension point 2 y-offset	+50			
Dimension point 2 z-offset	0			
Designation dimension point 2	Point (Sill edge left rear) [9004]			

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B1.6 DYNAMIC DIMENSIONS

Dynamic dimension point x, y or z-offset

• Add a parametric value from a data tree to a dynamic dimension point



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B1.7

Overwrites



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All view frame changes are stored in an overwrites list e.g.

FERMATOR - 50-11 SLIM

Steel Panel

1000

FERMATOR - 50-11 SLIM Steel Panel 1000 PLW 1650 BG 1700

CW 160

Area = 2.24m* Lift number 📥

DW 1000

DW 100

Annotation changes

General

B1.7 OVERWRITES

- Component changes
- Dimension changes

Bre	adcrumb		1	; ;
Do	ocument. <u>Sheets.</u> <u>LdvSheet1.</u> LdvFra	me11. 🔻		4
4	Favorites			
Οv	erwrites / Annotation		1	,
S	: 🗈 🛍 🕍 🛛 🕨			
Ē			_	_
C	verwrites: Drag a column header her	re to group by tha	t column.	
	Name	Type 🗸	Value	E
	Shaft0.Car.Door1.	🚸 LOD	LOD 100 [0x2001]	
	Shaft0.Car.Door2.	💩 LOD	LOD 100 [0x2001]	
•	Shaft0.Entries1.E0.ShaftDoor.	💩 LOD	LOD 200 [0x2002]	
	Shaft0.Entries2.E0.ShaftDoor.	💩 LOD	LOD 200 [0x2002]	
	Shaft*.Car.Frame.YokeGuide*.Supp	& Dash	1 [0x1]	
	Shaft*.Car.RefugeSpace.	🖉 Dash	1 [0x1]	
	Shaft*.Car*.RefugeSpace.	🖉 Dash	1 [0x1]	-
	Shaft*.RefugeSpace.	& Dash	1 [0x1]	
	Shaft0.Entries2.E0.ShaftDoor.11 M-		FERMATOR - 50-11	
	Shaft0.Car.Door1.DIM101	C Dimension	256 [0x100]	
	Shaft0.Car.Door2.DIM101	C Dimension	256 [0x100]	
	Shaft*.Car.Frame.YokeGuide*.Supp	🖉 Dash	1 [0x1]	
	Shatt".RefugeSpace.	J Dash	F[UX1]	
	Sheets.LdvSheet1.LdvFrame11.Ma	세의 Annotation	FERMATOR - 50-11	
	Sheets.LdvSheet1.LdvFrame11.Ma	Annotation	FERMATOR - 50-11	
	Sheets.LdvSheet1.LdvFrame11.Ma	Annotation	External\$("Me.Parent	.L

General B1.7 OVERWRITES

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The Overwrites docking window can be activated

• via the corresponding item in the View Frame Ribbon Group



Overwrites / Annotation							
S 🖻 🛍 🕍 0 🕨							
Overwrites: Drag a column header here to group by that column.							
	Name	Type 🛛	Value				
	Shaft0.Car.Door1.	💩 LOD	LOD 100 [0x2001]				
	Shaft0.Car.Door2.	💩 LOD	LOD 100 [0x2001]				
	Shaft0.Entries1.E0.ShaftDoor.	💩 LOD	LOD 200 [0x2002]				
	Shaft0.Entries2.E0.ShaftDoor.	💩 LOD	LOD 200 [0x2002]				
	Shaft0.Car.Door1.DIM101	Dimension	256 [0x100]				
	Shaft0.Car.Door2.DIM101	Dimension	256 [0x100]				
	Shaft*.Car.Frame.YokeGuide*.Supp	🥒 Dash	1 [0x1]				
	Shaft*.Car.RefugeSpace.	🥔 Dash	1 [0x1]				
	Shaft*.Car*.RefugeSpace.	🥔 Dash	1 [0x1]				
	Shaft*.RefugeSpace.	🥔 Dash	1 [0x1]				
	Sheets.LdvSheet1.LdvFrame11.Ma	Annotation	FERMATOR - 50				
	Sheets.LdvSheet1.LdvFrame11.Ma	Annotation	FERMATOR - 50				
	Sheets.LdvSheet1.LdvFrame11.Ma	Annotation	External\$("Me.Pa				
	2D.) ((a) Outstall		_			
	3D View 🛃 Properti 🕂 Data tree	🦞 Quick H 📑	e Addition Prove	rwi	1t		



The overwrite name is equal to the data tree name of the corresponding object. It is built of the names of the object and its parents, e.g.

"Shaft0.Car.Door1."



General B1.7 OVERWRITES

Toolbar

- 1. Selects the object in the drawing which is concatenated to the selected overwrites entry
- 2. Copy and Paste a selected overwrite entry/entries
- 3. Replace a certain term in the selected overwrite entry/entries (no copying operation)
- 4. Switch between the selected overwrite entries (highlighted yellow)

s	erwrit s / Ann.tation	here to group by	that column.	Ţ	×
	Name	Type 🛛	Value		-
	Shaft0.Car.Door1.	🕭 LOD	LOD 100 [0x2001]		
▶	Shaft0.Car.Door2.	🕭 LOD	LOD 100 [0x2001]		
	Shaft0.Entries1.E0.ShaftDoor.	🕭 LOD	LOD 200 [0x2002]		
	Shaft0.Entries2.E0.ShaftDoor.	🕭 LOD	LOD 200 [0x2002]		=
	Shaft0.Car.Door1.DIM101	Dimension	256 [0x100]		
	Shaft0.Car.Door2.DIM101	Dimension	256 [0x100]		
	Shaft*.Car.Frame.YokeGuide*	🧷 Dash	1 [0x1]		
	Shaft*.Car.RefugeSpace.	🥔 Dash	1 [0x1]		
_	Shaft*.Car*.RefugeSpace.	🥔 Dash	1 [0x1]		
_	Shaft*.RefugeSpace.	🧷 Dash	1 [0x1]		

2 3

1

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4 X

Value

FERMATOR - 50...

FERMATOR - 50.



Can be reset by deleting the corresponding item from the Overwrites window

1/1 ▶

Selecting the corresponding item (highlighted yellow)

Overwrites / Annotation

S 🛛 🖻 🛍 👫

And removing it via the delete key

rwrites: Drag a column heade	r here to group by	r that column.
Name	Туре	Value
heets.LdvSheet1.LdvFrame11	Annotation	FERMATOR - 50
heets.LdvSheet1.LdvFrame11	Annotation	FERMATOR - 50
Sheets.LdvSheet1.LdvFrame1.	Annotation	Car area = 2,5m²
Shaft*.Car.Frame.YokeGuide*	🥔 Dash	1 [0x1]
Shaft*.Car.RefugeSpace.	🥓 Dash	1 [0x1]
Shaft*.Car*.RefugeSpace.	🖉 Dash	1 [0x1]

4 X





Overwrites / Annotation

S 🖻 🛍 🛗 🗌

0 🕨

General **B1.7 OVERWRITES**

Dimension Overwrites

Dimension Overwrites

B1.7 OVERWRITES

Dimension overwrites are created when e.g.

- Deleting a dimension from the view
- Changing dimension settings
 - Changing the extension lines
 - Changing the dimension text settings
 - Changing the dimension position
 - etc.
- Moving dimensions
- Changing dimension prefixes
- Create own dyn. dimensions
- etc.



Component Overwrites

Component Overwrites

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B1.7 OVERWRITES

Component overwrites are created when e.g.

- Deleting a component from the view
- Changing the presentation or LOD
 - Dashed
 - DashDotDot
 - LOD 100 500
 - LOD MAX
 - etc.
- Enabling extended component dimensions
- etc.

00 LOD 300 LOD 300 LOD 500		
100 100 LOD 350 LOD Max		
Level of Development (LOD)	Active Compon Annotation	ert 2 Dished 7
Overwrites / Annotation		д х
Overwrites: Drag a column header her	re to group by tha	column.
Overwrites: Drag a column header her	re to group by tha Type 7	column. Value
Overwrites: Drag a column header her Name Shaft0.Car.Door1.	re to group by tha Type * LOD	Column. Value
Overwrites: Drag a column header her Name Shaft0.Car.Door1. Shaft0.Car.Door2.	re to group by tha Type & LOD & LOD	Column. Value LOD 100 [0x2001] LOD 100 [0x2001]
Overwrites: Drag a column header her Name Shaft0.Car.Door1. Shaft0.Car.Door2. Shaft0.Entries1.E0.ShaftDoor.	re to group by tha Type LOD LOD LOD LOD	Value LOD 100 [0x2001] LOD 100 [0x2001] LOD 200 [0x2002]
Overwrites: Drag a column header her Name Shaft0.Car.Door1. Shaft0.Car.Door2. Shaft0.Entries1.E0.ShaftDoor. Shaft0.Entries2.E0.ShaftDoor.	re to group by tha Type LOD LOD LOD LOD LOD	Column. Value LOD 100 [0x2001] LOD 100 [0x2001] LOD 200 [0x2002] LOD 200 [0x2002]
Overwrites: Drag a column header her Name Shaft0.Car.Door1. Shaft0.Car.Door2. Shaft0.Entries1.E0.ShaftDoor. Shaft0.Entries2.E0.ShaftDoor. Shaft*.Car.Frame.YokeGuide*.Supp	re to group by tha Type LOD LOD LOD LOD LOD LOD Dash	Value LOD 100 [0x2001] LOD 100 [0x2001] LOD 200 [0x2002] LOD 200 [0x2002] LOD 200 [0x2002] 1 [0x1]
Overwrites: Drag a column header her Name Shaft0.Car.Door1. Shaft0.Car.Door2. Shaft0.Entries1.E0.ShaftDoor. Shaft0.Entries2.E0.ShaftDoor. Shaft*.Car.Frame.YokeGuide*.Supp Shaft*.Car.RefugeSpace.	Type LOD LOD LOD LOD LOD LOD COD COD COD COD COD COD COD C	Column. Value LOD 100 [0x2001] LOD 100 [0x2001] LOD 200 [0x2002] LOD 200 [0x2002] 1 [0x1] 1 [0x1]
Overwrites: Drag a column header her Name Shaft0.Car.Door1. Shaft0.Car.Door2. Shaft0.Entries1.E0.ShaftDoor. Shaft0.Entries2.E0.ShaftDoor. Shaft*.Car.Frame.YokeGuide*.Supp Shaft*.Car.RefugeSpace. Shaft*.Car*.RefugeSpace.	Type S LOD LOD LOD LOD LOD LOD LOD Dash Dash Dash	Value LOD 100 [0x2001] LOD 100 [0x2001] LOD 200 [0x2002] LOD 200 [0x2002] 1 [0x1] 1 [0x1]
Overwrites: Drag a column header her Name Shaft0.Car.Door1. Shaft0.Car.Door2. Shaft0.Entries1.E0.ShaftDoor. Shaft0.Entries2.E0.ShaftDoor. Shaft*.Car.Frame.YokeGuide*.Supp Shaft*.Car.RefugeSpace. Shaft*.RefugeSpace. Shaft*.RefugeSpace.	re to group by tha Type LOD LOD LOD LOD LOD LOD LOD Dash Dash Dash Dash Dash	Value LOD 100 [0x2001] LOD 100 [0x2001] LOD 200 [0x2002] LOD 200 [0x2002] 1 [0x1] 1 [0x1] 1 [0x1] 1 [0x1]

Annotation Overwrites

Annotation overwrites are created when Adding a component annotation

B1.7 OVERWRITES

Adding a view annotation

Annotation Overwrites



Remove View Frame

iftdesigner 🕫



*Operations B1.7 OVERWRITES

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Provides the opportunity to assign an overwrite to all childs of a tree list object.





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Works for all objects (dimensions, annotations, BIM components)

Replacing the index no. of the entry item (E0) with the *operation (E*).



*Operations B1.7 OVERWRITES

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	Search and Rep	lace ×
 Automatic *operation functions Replaces only the shaft index Replaces any available index 	Search: Replace:	Shaft0.Entries1.E0.ShaftDoor. Shaft*.Entries1.E0.ShaftDoor. Any Shaft Index Special Shaft Selectors
	Search and Rep	OK Cancel Help
	Replace:	Shaft*.Entries*.E*.ShaftDoor.
		OK Cancel Help
*Operations B1.7 OVERWRITES

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Practical example: Removing ceiling lines



*Operations B1.7 OVERWRITES

Dynamic Dimension for Holes on every Floor Level

- Add a dynamic dimension
 - Design mode to select the hole



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*Operations B1.7 OVERWRITES

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 To get the dimension on every floor level replace the index with an asterisk *

Οv	erwrites / Annotation	д X	
S	i 🗈 🛍 🙀 i 🛛 1/1 🕨		
0	verwrites: rag a column header here to group l	by that column.	
	Name 🛆	Туре	Value
	Shart*.Car*.RefugeSpace.	🥒 Dash	1 [0x1]
	Phaft*.Car.Components.Symbol5.	🥒 Dash	1 [0x1]
	Shaft*.Car.Frame.YokeGuide*.Support0.SH0.	🥒 Dash	1 [0x1]
	Shaft*.Car.RefugeSpace.	🥒 Dash	1 [0x1]
	Shaft*.CW.Components.Symbol5.	🥒 Dash	1 [0x1]
	Shaft*.RefugeSpace.	🥒 Dash	1 [0x1]
	Shaft 0. Entries 1. E*. Opening. Hole 0. Dyn Dims	犬 Dimension	1536 [0x600]
x	Shaft0.Entries1.E*.Opening.Hole0.DynDi	Dynamic	Shaft0.Entrie .Opening.Ho 007;;;;03Shat r.;9012;;;
<u>ן</u>			

 Delete everything behind the E0 including the dot – in both rows.

 Search and Replace

 Search:
 Shaft0.Entries1.E0.Opening.Hole0.DynDims.DynDim7

 Replace:
 Shaft0.Entries1.E*

 Any Shaft Index
 Any Index

 Special Shaft Selectors

 OK
 Cancel

Search:

Replace:

*Operations B1.7 OVERWRITES

 To get the same extension lines settings as the first one, repeat the steps for the layout entry.

> Delete everything behind the E0 including the dot – in both rows.

Shaft0.Entries1.E0.Opening.Hole0.DynDims.DynDim7

Any Index

OK

Cancel

Shaft0.Entries1.E*

Any Shaft Index

Special Shaft Selectors

Overwrites / Annotation		4 х
S 🖻 🛍 🙀 🔰 1/1 🕨		
Overwrites: Drag a column header here to group	by that column.	
Name A	Туре	Value
Shaft*.Car*.RefugeSpace.	🧷 Dash	1 [0x1]
Shaft*.Car.Components.Symbol5.	🧷 Dash	1 [0x1]
Shaft*.Car.Frame.YokeGuide*.Support0.SH0.	🧷 Dash	1 [0x1]
Shaft*.Car.RefugeSpace.	🧷 Dash	1 [0x1]
Shaft*.CW.Components.Symbol5.	🧷 Dash	1 [0x1]
Shaft*.RefugeSpace.	🧷 Dash	1 [0x1]
Shaft0.Entries1.E*.Opening.Hole0.DynDims	🔨 Dimension	1536 [0x600]
Shaft0.Entries1.E*.Opening.Hole0.DynDi	🔿 Dynamic	Shaft0.Entries .Opening.Hol 007;;;;03Shaf

Help

Extended *Operations B1.7 OVERWRITES

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Extended *Operations and possible combinations for more dynamical View Frames, e.g. shaft groups



Extended *Operations B1.7 OVERWRITES

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Extended *Operations and possible combinations for more dynamical View Frames, e.g. shaft groups





*{Bank1} / *{Bank2}





Possible combination examples

_			
	Name	Туре	Value
	Sheets.LdvSheet0.LdvFrame4.Map.Shaft*{Bank2, First}.Car.	✓Annotation	Bank2, First
	Sheets.LdvSheet0.LdvFrame4.Map.Shaft*{Bank2, IndexFromEnd, -3}.Car.	✓Annotation	Bank2, IndexFromEnd, -3
	Sheets.LdvSheet0.LdvFrame4.Map.Shaft*{Bank1, IndexFromEnd, -2}.Car.	✓Annotation	Bank1, IndexFromEnd, -2
_			

B1.8

 \uparrow

Manage Sheet Groups

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Download library

• via Poolmanager

DigiPara Liftdesigner Poolmanager 2025	—	
← DigiPara Liftdesigner Cloud		
Selected datapool		Refresh
Standard Data Pool		•
Consider developer modules		
Expand all Collapse all		^
Certified product data		
Customer product data		
Software Enhancements		
Advanced Dynamic Sheet Templates	Uninstall library	
BIM Properties nach SBB CH 0.02 MB		
BIM Properties nach vdi 2552 0.01 MB		
Duty Table Builder 0.1 MB		
EAO SLOT Installation Files 0.13 MB		
Performance Profiler 0.1 MB		

Show Log... Apply Close

Manage Sheet Groups B1.8 MANAGE SHEET GROUPS

Manage Sheet Groups

Sheet

Add

Sheet

• Button under the sheet tab

et View Frame Dimens	sions Visua	
 Remove Sheet (PLAN_PIT) ☑ Sheet Properties 	Manago	Manage Sheets Gr
	wanage	▶ 554900000: Advanced Dyn
Sheet	Sheets Gr	▶ 439200000: Aufzugteile BT
		▶ 439300000: Aufzugteile BT



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Manage Sheet Groups B1.8 MANAGE SHEET GROUPS

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Country: UK: English - United King	gdom 🔻 Option Tag:	▼ <u>C</u>	lear	Execute	
SHEET_NAME	SHEET_DESC	Exists in Project	Mode	Next Action	
COVER_SHEET	Shaft group information	~	≠ _A ~	Q	
SCHEMA	Shaft group key plan	~	≠ _A ~	2	
PLAN_TYPICAL	Shaft plan view	~	≠ _A ~	2	
PLAN_ENTRANCE	Shaft plan view	~	≠ _A ~	2	
PLAN_PIT	Shaft pit view	~	Never Load 🗸	Unload	
PLAN_MR_HOLES	Machine room holes view		≠ _A ~	Load	
PLAN_MR_BK1	Machine room gear/plan view BK1	~	≠ _A ~	- C	
VERTICAL_SECTION_LEFT (VERTIC	Shaft vert. section	~	≠ _A ~	C	
ELEVATION_BK1_FRONT_A	Shaft group elevation BK1	~	lgnore ∽		
ENTRANCES_TYPICAL_FLOOR_BK1	Entrances group front BK1	~	≠ _A ~	C	
ENTRANCES_ENTRANCE_FLOOR_B	Entrances group front BK1	~	≠ _A ~	3	

Manage selected Sheet Group

- Select a country
- Next Action:
 - Load
 - Unload
 - Refresh
- Mode:
 - Automatically
 - Never load
 - Ignore
- Confirm with "Execute"



Option tags are possible

- e.g. to filter by use case, e.g:
 - Option Tag EAO -> Sheets optimiert f
 ür Elevator Architekt Online Anwender
 - Option Tag **Dev** -> Sheets optimized for component developers
 - Option Tag **Profi** -> Sheets optimized for advanced Liftdesigner users

Manage Shee 4 554900000: Advance	ets Groups red Dynamic Sheet Temp	olates			digipara liftdesigner 10 Sheets Loaded
Country:	Option Tag:	V <u>Cl</u>	ear	Execute	
SHEET_NAME	SHEET_DESC	Exists in Project	Mode	Next Action	
COVER_SHEET	Shaft group information	~	≠ _A ~	Unload	
SCHEMA	Shaft group key plan	~	≠ _A ~	Unload	
PLAN_TYPICAL	Shaft plan view	~	≠ _A ~	Unload	
PLAN_ENTRANCE	Shaft plan view	~	≠ _A ~	Unload	

B1.9

Practice





In the **LDTrainingSample.Id3** project file, switch to the **My Views** sheet and change the following dimension values:

- SD: 2600 mm
- SW: 1900 mm
- CD: 2000 mm
- CW: 1200 mm

Dimension Properties & Dynamic Dimension B1.8 PRACTICE

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Create a new sheet including:

- a Plan View, 2 Entrance Views (1 from the front, 1 from the side) and
- a Machine Room View:

Views:

- Reorganize the dimension chains by using the dimension ID's
- Remove unnecessary dimensions
- Adapt dimension extension lines and dimension arrows
- Align dimension chains horizontally and vertically
- Change local dimension prefixes if necessary
- Create your own dynamic dimensions



Open the Overwrites window first and create a project with entrances on the front and on the rear side of the shaft

- 1. Add a vertical View to the left side
- 2. Delete the bottom landing door at the front wall.
 - Look up the new entry for the door delete operation in the Overwrites window
- 3. Assign the delete operation to all landing doors at the front and the rear wall
- 4. Add 2 new floors to the elevator via the Floor level dialog and activate the entrances at the front and the rear wall

The *Operator B1.8 PRACTICE

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B1.10

Summary & custom Q&A's



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Congratulations You reached the next level



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

training@digipara.com



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