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Procedure Number: Procedure Template - Number
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1 Model Setup

1.1 Creating the Tekla model

Tekla models for Resources shall be registered first in the JMS model register.

REA: [CV101] CO	NVEYOR CV101 FOR	TESTING	W		
Custom Phases	Models Det	ail Phases Team Roles			
Add Model			Reports: [Mode	el Register 💌 PDF 💌 Do	wnload] Refresh
ODEL NAME	CHECK LISTS	DESCRIPTION	USER	VERSION	
CV101-A	М	CONVEYOR STRUCTURES	Francis Lim	Tekla17	1
CV101-B	М	CONVEYOR MECH	Paul Chia	Prostructures	1
CV101-C	র্তা	BLOWER FRAME	Edgar Jabas	Tekla17	1

After saving the register, initial Tekla model will then be created under "T:\Job No\900 Working Documents\902 Native Models\Area" folder as below:

 900 Working Documents 901 Engineering 902 Native Models CV101-A-CONVEYOR STRUCTURES CV101-B-CONVEYOR MECH CV101-A-CONVEYOR MECH CV101-A-CONVEYOR MECH CV101-A-CONVEYOR MECH CV101-A-CONVEYOR MECH CV101-A-CONVEYOR MECH CV101-C-BLOWER FRAME PROJECT 	🍌 800 Deliverables	-	Name	Date modified	Туре	Size
902 Native Models 14/03/2014 2:38 PM File folder CV101 CV101-A-CONVEYOR STRUCTURES 13/03/2014 3:43 PM File folder CV101-B-CONVEYOR MECH CV101-C-BLOWER FRAME 13/03/2014 3:43 PM File folder CV101-B-CONVEYOR MECH CV101-C-BLOWER FRAME 13/03/2014 3:43 PM File folder CV101-B-CONVEYOR MECH CV101-C-BLOWER FRAME CV101-C-BLOWER FRAME CV101-C-BLOWER FRAME			L CV101-A-CONVEYOR STRUCTURES	18/03/2014 1:00 AM	File folder	
CV101-A-CONVEYOR STRUCTURES CV101-A-CONVEYOR MECH CV101-C-BLOWER FRAME			U101-B-CONVEYOR MECH	14/03/2014 2:38 PM	File folder	
CV101-A-CONVEYOR STRUCTURES CV101-B-CONVEYOR MECH CV101-C-BLOWER FRAME			🍌 CV101-C-BLOWER FRAME	13/03/2014 3:43 PM	File folder	
LEKLASUPPORT	CV101-A-CONVEYOR STRUCTURES CV101-B-CONVEYOR MECH CV101-C-BLOWER FRAME FROJECT	ш				

Full Model Names are automatically taken from the MODEL NAME and DESCRIPTION in the above.

The initial model will then be copied or by syncing thru JMS Tool Suite by the assigned USER of the model.

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1.2 iPDTekla Launcher

0	Version : 1.0.1.15923 iPDTeklaLauncher license will expire in 131 days. 10 ×	
Launcher	Help 1 2	
Background O	ptions : ModelView - BLACK - DrawingView - BLACK -	
Version :	19.1 - metric - Env: australasia -	
Division :	resources - Firm : pdc	
Job No :	0100 3 • Folder : IPD 4 •	
Area :	CV101 5	
Model :	CV101-A-CONVEYOR STRUCTURES 6	
Task :	7 🗸 Launch Task	
	8 Model is in SINGLEUSER mode	
>>>	9 Launch Tekla	
	Ready	

Open the Tekla model using the iPDTekla Launcher interface below:

- 1 Preference for BLACK or WHITE Model View Background
- 2 Preference for BLACK or WHITE Drawing View Background
- 3 Select Job Number from this Pull-down Menu. Version, Division, Env and Firm will be automatically filled-in upon selecting a Job Number.
- 4 Select Model Folder from this Pull-down. For jobs created after IPD JMS System3 was implemented, the default is on IPD folder.
- 5 Select Job Area from this Pull-down Menu.
- 6 Select the Model from this Pull-down Menu.
- 7 NOT IN USE. Future Enhancement.
- 8 Upon model selection, this will indicate whether the model is in Multi or Single User mode.
- 9 Click to Launch Tekla after model selection.
- 10 iPDTekla Launcher license remaining days. Controlled by Technical Manager.



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Chapter 1 Working Procedures

1.3 Tekla Structures Login Interface



- 1 Default to be kept as iPDTekla
- Select a license configuration that suits your role. If in doubt, ask your PM.

1.4 Project Properties

		Project Data			
		JMS Information PDC Job No.	0100	Client Job No	00001
		Project Title 1	TEST JOB ONLY		
		Project Title 2	FOR TEKLA & PR	OSTRUCTURES	
		Project Title 3			
		Area Name	CV101	CONVEYOR C	EV101 FOR TESTING
		Model Name	CV101-A	CV101-A-COM	NVEYOR STRUCTURES-TRUSSES AND TRESTLES
Project Prop	perties	PDC Standard D	ata		Project Specific Data
roject numb	er	Mark Prefix			Troject specific bala
ame	NOT IN USE	Fitting Prefix	CV101-		
uilder	NOT IN USE	Bolt Treatment	GALVANISED		
)bject	NOT IN USE	Handrail Std	0100-HR-0001)	
ddress	NOT IN USE	Grating Std	0100-GR-0001		
lesigner	NOT IN USE	Guard Std			
tart date	NOT IN USE				
nd date	NOT IN USE				
fo 1	NOT IN USE				
ifo 2	NOT IN USE				
\checkmark	User-defined attributes			NOT	E.
escription (S	hown in Open dialog box)		*	All bl	g API every model startup to correct information from JMS

All entries will be automatically filled-in here. No need for user input, just confirm if all entries are as specified in JMS.



1.5 Phase Names, BIM Phase Description

The same application used in the auto-filling of the Project Properties at Tekla start-up, the Phase Numbers and Names registered in JMS for each respective model will be automatically filled-in and updated.

In addition, the BIM Phase Description column which will be used as additional properties for IFC export is also automatically filled-in.

Users will just need to add Phase names that they might need for other interfaces like civil/concrete, mechanical equipment, piping, cable trays and other electrical equipment.

Number	*		Name *		<u>F</u> ilter
Current	Number 0 1 2 3 4 1001 1002 1003 1004	Name MARKING PLANS STEELWORK STAIR GRATING HANDRAIL INTERFACE STEELWORK INTERFACE STAIR INTERFACE GRATING INTERFACE HANDRAIL	BIM Phase Description 001 - STEELWORK 002 - STAIR 003 - GRATING 004 - HANDRAIL	User Comment	Phase Set current Add Delete Select Phases by objects Objects by phases Objects Modify phase
<u><u>o</u>k</u>					

2.1 General

2

For every project, a Site Layout Model will always be the first to be allocated, where a Site Datum will be determined. From this location, setting out of the Structure Gridlines and Conveyor centre lines can begin in accordance with the design drawings. In the absence of this, confirm with Project Leader as to where to locate your model.

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2.2 Site North Direction and Grid Line Views

A weightless Site/Plant North direction dummy part has been created for insertion into the intersection of the first X & Y Grids (e.g. Grid A – 1). This will just serve as a modeling aide.



Creation of Views Along Grid Lines

Below are the default prefixes of Grid Lines Views. This can be edited to match with the design drawings or to the preferred view label in the Marking Plans.

S Creation	of Views Along Grid	d Lines			1
Save Load	d standard	•	Save as		
	_				
View plane	Number of views	View name prefix	View properties		
ХҮ	All 🝷	PLAN	PlanView	- Show	
ZY	All 👻	GRID	ElevationView	▼ Show	
xz	All 👻	GRID	ElevationView	▼ Show	
ОК	Create		/	Cancel	
		Montonion, Approximation	Reference vertexterne		

You can also alter the View Properties setting preferred by clicking on the "Show" button.

Save Load stan	dard		▼ [S	ave as PlanVie	ew
View					
🖉 Name:	Plan at RL				
🔽 Angle:	🗌 Plane		✓ IV Rotation arour		-30.00000
Projection:	Projection: 🗇 Orthogon		🗸 🔽 Rotat	20.00000	
Representation					
View type:		Render	Rendered		
Color and transpa	arency in all views:	standa	rd	¥	Representation
Visibility					
View depth: View 500					
Ø Down: 500.00					
Visibility of object	t types: Displa	y			
100	up: standa	94 - 626	Object grou		

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2.3 Assembly, Part and Fitting Prefixes, Part Naming Conventions and Cost Codes

1. **Part Prefix** is pre-assigned in JMS for each respective Phase and numbers are to be allocated prior to detailing:

(REA: [CV161]	OVERLAND CON	VEYOR 541-CVR161			▼ 🧐	
Custom Phases	Models	Detail Phases	Team	Roles		
Add Phase	MODEL	DE	SCRIPTION		DISCIPLINE	FITTING PREFIX
00		Ma	arking Plans		Structural [DTSTR]	а
01	CV161-A	C\	/161 Splice T	russ Steelwork	Structural [DTSTR]	а
02	CV161-A		/161 Splice T andrail	russ Platform	Structural [DTSTR]	а

2. Assembly Prefix is commonly "AREA-PHASE NO-"

For the above snap shot for example, "CV161-01-" for Phase 01 and "CV161-02-" for Phase 02.

Refer to JMS information for each corresponding job.

3. **Fitting Prefix**, in addition to the Part Prefix, this may be added before the Part prefix, usually the AREA-, is also pre-assigned in the Job Setup tab in JMS as below:

a part of the state of the stat	المرجع بالمستخلفين بالمعللة		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	a the second	and a strength of the second
JOB SETU	P:				
Edit					
Ealt					
Details	Job Setup	Tech	nnical	General Notes	Contract Documents
Job Setup					
Drawing Numbe	r System:	PDC (Re	efer to PD	C-FM-0037)	
Detail Drawing V	Weight UOM:	Kg			
Fitting Prefix:		AREA-			
Fitting Number	Lines:	3			
Mark Detail:					
Cost Codes:		PDC (Re	efer to PD	C-FM-0051)	
Comments:					
Drawing Sheet/S	System:	PDC			
Drawing Sheet Size:		 ✓ A0 ✓ A1 ✓ A2 ✓ A3 ✓ A4 ✓ B1 			
Revision Issuing	g Description:	Issued F	or Approv	al And Construction	
Revision Issuin System:	0 (eg: IF. Revision Notes:				
Software:					
Timesheet Syste	em:	Timeshe	et Driven		
File System:		Version:	3		
Multi-Part Phase	e Issue				

4. Part Naming Convention

Part Names are related to the Cost Codes being set in JMS. When modeling using the "Model Builder Tool" in the iPDTeklaTool Application, Part Names are predefined and the appropriate Cost Codes will be designated to the part upon modeling. It is very important to have the correct part names as the Cost Codes rely mainly on it.

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Below are the predefined Part Names. Additional Part Names will be added if necessary:

	PREDEFINED PART NAMES	· · ·
BAR	HANDRAIL_WITH_KPLATE	SAFETY_GUARD_FRAME
BEAM	HANGING_HOPPER	SAFETY_MESH
BEAM_BFS	HBRACE	SHEDDER_PLATE
BELT_CLEANER	HBRACE_BFS	SHEET_RUBBER_CURTAIN
BELT_PLOUGH	HEAD_END_STRINGER	SHUTTLE_FRAME
BILLET_LINER	HEAD_FRAME	SHUTTLE_RAIL
BIN	HOLLOW_COLUMN	SINGLE_LEVEL_TRUSS
BISALLOY_LINER	HOLLOW_COLUMN_BFS	SITE_CLEAT
BONDED_RUBBER	HOLLOW_HBRACE	SITE_PLATE
BRACKET	HOLLOW_HBRACE_BFS	SKIRT_COVER
BRACKET_BFS	HOLLOW_POST	SKIRT_PANEL
CABLE_TRAY	HOLLOW_POST_BFS	SKIRT_SUPPORT
CERAMIC_LINER	HOLLOW_VBRACE	STAIR
CHUTE	HOLLOW_VBRACE_BFS	STAIR_BFS
CLADDING	HOOD	STAIR_TREAD
CLADDING_BFS	HOPPER	STRINGER_SUPPORT
CLEAT	LADDER_NO_CAGE	SUMP_PLATE
CLEAT_BFS	LADDER_WITH_CAGE	TAIL_END_STRINGER
COLUMN	LAUNDER_PLATE	TAIL_FRAME
COLUMN_BFS	LOW_LEVEL_MODULE	TAKE_UP_BOX
COVER_PLATE	MANHOLE	TAKE_UP_TROLLEY
COVER_PLATE_BFS	MID_LEVEL_MODULE	TANK
CRANE_RAIL	MONORAIL	TANK_BASE
DOMITE_LINER	MONORAIL_BFS	TANK_FLOOR
DUCT	NI-HARD_LINER	TANK_NOZZLE
DUEL_LEVEL_TRUSS	PIPE_SUPPORT	TANK_ROOF
EVERHARD_LINER	PLATE	TANK_SHELL
FASCIA	PLATE_BFS	TRESTLE
FASCIA_BFS	POLYCER_LINER	UHMWPE_LINER
FIELD_DEVICE_BRACKET	POST	VBRACE
FLOOR_GRATING	POST_BFS	VBRACE_BFS
FLOOR_PLATE	PURLIN	WALKWAY_GRATING
FRAME	PURLIN_BFS	WELDED_BEAM
FRAME_BFS	RAIL	WELDED_BEAM_BFS
GATE	RAIL_BFS	WELDED_COLUMN
GIRT	RAIL_LINER	WELDED_COLUMN_BFS
GIRT_BFS	RUBBER_LINER	WELDED_VBRACE
HANDRAIL_NO_KPLATE	SAFETY_GUARD	WELDED_VBRACE_BFS
HANDRAIL_STAIR	SAFETY_GUARD_FRAME	WIND_HOOP



Below is a snap shot of the Model Builder Interface.

The upper portion, which is the JMS COST CODE INFORMATION, data will be filled in automatically upon Part Name selection. The assigned Cost Code can be seen in the part's UDA.

S Costcode Ite	m STEELWORK	5 14 5 6 6 5 1	CODE IN	TORMA	1101
5 Description	COLUMN				
la Category :	STEELWORK	Costcode: *	Unit :	Kg Type	:
D BUILDER	COLUMN TYPE BEA				\prec
ID BUILDER		M TYPE CONTOUR	PLATE TYPE		
	Number Series	and the State		Position	
	Prefix :	Start Number:	On Plane :	MIDDLE	
Part :			Rotation:	BELOW	•
Assembly:	CV101-01-SA	1	At Depth :	MIDDLE	
	Attributes	1	Mod	eling Options	
			Predefined 1		Level
Name :	COLUMN	<u> </u>		el: 1,235.00	.
Profile :	UB200*30		Top Level :	5.345.00	
Material :	300+			point + Top Le	(marking)
Finish :	NO PAINT	F	Top Level :	0.00	
Class :	1	[<u>[</u>	0.5	point + Length	
	-		Length :	0.00	
				1.0.010	
	15				

Refer to Document No. XXXXXXX for the iPDTekla Tool and Model Builder Documentation for more details about Part Naming and Cost Code application.



5. The new Part's UDA interface.

The Detail Tab.

PN	N		Subco	n		Firm		Proje	:t
Basic [esign	TQ	NOC	ABM	HRN	Vendor	Color	Log	Notes
Cost Cod	e								
JMS Item		CONV		DRT					
JMS Des	cription	CONV	EYOR TREST	LES					
Data					Data Ove	eride			
Tekla Cal	tegory	CONV	EYOR		Cost Coo	ie Value Ove	ride 🗹		
Cost Coo	ie	8.6			Weight /	m Overide	\square		
Cost Coo	le Unit	📝 Kg	Туре 🔽		Postweig	ght Overide			
Manual P	rofile x	Length Ove	ride						
Profile of	veride					x Length of	veride 💟		
Part Data				Pa	rt Referenc	e			
BOM Rer	nark	V		м	arking Plan	V			1
Locked		V No		▼ De	esign Drawi	ng 🔽			
*** Short	en	0.00							
*** Camb	er								
*** Fabri	cator								
*** User	Phase	V							
*** Main	part as :	ASSEM	ABLY	•					
Liner BOM	l Outpu	t 🔽		-					
				be API	blue items s populated t tool to get	using correct	D P		a Evolved
*** Denot	es Affec	ts Numberi	ng 🖉 o	- info	ormation fro	om JMS	-	- group of the	
ОК	Apply	Mo	dify	Get		Cancel			

The Design Tab.

-	and a second	in the second sectors	Testeste		Velo I accel	
S Tekla	Structures x64 Co	olumn (1)				
Detail	Design Data	Vendor Color	Log Note	s Subcon	Firm Projec	t
	(
S					Y	ENDPOINT
	-					
		c	onnection Applied	d By: 🔽		
		c	onnection Checke	d By: 🔽 丨		
			Connection Cod	e 🗹		
			Shear, V			
			Tension, T			
			Moment, M			
					1.00	
						dc
					· ·	Engineering Evolved
	NOTE: A	I blue items shou	d he nonulated us	ting API tool to	at correct inf	ormation from JMS
	NOTE A	n ende items stilde	o ac populated di	ang Air tool to	, get concet ini	constitution from JM3
OK	Apply	Modify	Get 🔽	Can	cel	
-		C				

- This tab contains the Part Data, Part Reference, Manual Profile and Length Override and the Cost Code data from JMS.
- Refer to the iPDTeklaTool for more details about Cost Code Application.

PARAMETER NAME	ATTRIBUTE NAME
JMS Item	PARTJMSITEM
JMS Description	PARTJMSDESC
Tekla Category	PARTCATEGORY
Cost Code	PARTCOSTCODE
Cost Code Unit	PARTCOSTCODEUNIT
Туре	PARTCOSTCODETYPE
Cost Code Value Overide	PARTVALUEOVERIDE
Profile overide	PARTPROFILEOVERIDE
Weight /m Overide	PARTWEIGHTOVERIDE
Postweight Overide	PARTPOSTWTOVERIDE
x Length overide	PARTLENGTHOVERIDE
BOM Remark	comment
Marking Plan	PARTMARKINGPLAN
Design Drawing	PARTDESIGNREF
Locked	OBJECT_LOCKED
***Shorten	xs_shorten
***Camber	cambering
***Fabricator	PARTFABRICATOR
***User Phase	PARTUSERPHASE
***Mainpart As:	PARTMAINITEM
Liner BOM Output	PARTLINERMISC

• The user who applied the connection and the user who checked the connection will be automatically populated here if tagged thru the iPDTeklaTool.

PARAMETER NAME	ATTRIBUTE NAME
START POINT	axial1
ENDPOINT	axial2
Connection Applied By:	CONN_APP_END1
Connection Applied By:	CONN_APP_END2
Connection Checked By:	CONN_CHK_END1
Connection Checked By:	CONN_CHK_END2
Connection Code	CONN_CODE_END1
Connection Code	CONN_CODE_END2
Moment, M	moment1
Moment, M	moment2
Shear	shear1
Shear	shear2



The TQ Tab.

Tekla Structures x64	Beam (1)							
PM		Subc	on		Firm		Projec	t
Basic Design	TQ	NOC	ABM	HRN	Vendor	Color	Log	Notes
Hold Status				-	affects numbe	ring)		
Previous Status				•				
HOLD INFORMATION	N	т	Q		C	DQ		
Query Type	V			-			-	
Hold Reference	V			-			-	
Description	\checkmark			V				
Hold Note in Drawin	ng 🔽							
		Т	Q Informati	on				
	TQ 1	_	TQ 2		TQ 3			
TQ Status 🗸	Closed		Closed		losed 👻			
TQ No.								
Brief Description				\checkmark				
Clients TQ No. 🧹				\checkmark				
Document Path: 🚽		🗸 🗌	G	. 🗸				
			DQ Informa	tion				
	CDQ 1		CDQ 2		CDQ 3			
CDQ Status 🔍	Closed	-	Closed	- 🗸 🕻	losed 👻			
CDQ No.								
Brief Description								
Clients CDQ No. 📝								
Document Path: 📝		🗸	G	. 🗸				
OK Apply	Modi	fy	Get	া \ অ	Cance	I		
					VISION.		Meleinen.	_

The NOC Tab.

PM		Subcon		F	irm			Project		
Basic Design	TQ	NOC	ABM	HRN	Ven	dor	Color	Log	No	
		NOTICE OF C	HANGE	(CHANGE ORE	ERS)				
	N	DC 1	NC	DC 2		NOC 3				
NOC No. :					V					
Engineer's Ref:					V					
Date:		•		•	V					
Description:					V					
Changes To This Part:		•		-	V		•			
	N	DC 4	NC	DC 5		NOC 6				
NOC No. :					V					
Engineer's Ref:					V					
Date:		-		-	V		-			
Description:					V					
Changes To This Part:		•		•	V		-			
	N	DC 7	NC	DC 8		NOC 9				
NOC No.					V					
Engineer's Ref:					V					
Date:				•	V		-			
Description:					V					
Changes To This Part:		•		•	V		•			
		•								
		💫 pdc								
		Engi	neering	Evolved						

• This tab contains the TQ and HOLD information.

PARAMETER NAME	ATTRIBUTE NAME
Hold Status	MEMBER_STATUS
Previous Status	PREVIOUS_STATUS
RFI Query Type	RFIQueryType
CDQ Query Type	CDQQueryType
RFI Hold Reference	HOLD_INFO
CDQ Hold Reference	CDQHOLD_INFO
RFI Description	HOLD_DESC
CDQ Description	CDQHOLD_DESC
Hold Note in Drawing	HOLD_NOTES
RFI Status	RFI1_STATUS, RFI2_STATUS, RFI3_STATUS,
NIT Status	
RFI No.	RFI1_NUM, RFI2_NUM, RFI3_NUM,
RFI Brief Description	RFI1_DESC, RFI2_DESC, RFI3_DESC,
Clients RFL No.	RFI1_CLIENT_NUM, RFI2_CLIENT_NUM,
chefits fai fino.	RFI3_CLIENT_NUM,
RFI Document Path	RFIDocPath1, RFIDocPath2, RFIDocPath3,
	CDQ1_STATUS, CDQ2_STATUS,
CDQ Status	CDQ3_STATUS,
CDQ No.	CDQ1 NUM, CDQ2 NUM, CDQ3 NUM,
CDQ Brief Description	
	CDQ1 CLIENT NUM CDQ2 CLIENT NUM
Clients CDQ No.	CDQ3 CLIENT NUM,
	CDQDocPath1, CDQDocPath2,
CDQ Document Path	CDQDocPath3,

• This tab to contain the part's Notice of Change information..

PARAMETER NAME	ATTRIBUTE NAME
NOC No. :	CO1_NUM, CO2_NUM,,
NUC NO. :	CO9_NUM
Engine orde Defe	CO1_ENGREF, CO2_ENGREF,,
Engineer's Ref:	CO9_ENGREF
Date:	CO1_DATE, CO2_DATE,,
Date:	CO9_DATE
Description	CO1_DESC, CO2_DESC,,
Description:	CO9_DESC
Changes To This Part:	CO1_DET, CO2_DET,, CO9_DET



The ABM Tab.

PM	Subcon		F	irm		Project		This tab to co
Basic Design	TQ NOC	ABM	HRN	Ven	dor Color	Log	Notes	Bill of Materia
	ADVANCED BI	LL OF	MATERIAL					
ABM Number (affects n	umbering)							PARAMETER NAM
								ABM Number
								Profile
								New Profile
								Length
								New Length
	Addendum 1	,	Addendum 2		Addendum 3			
ABM Addendum No.			Audendum 2	V	Addendum 5			Material
Changes To This Part:	V V		_					New Material
Date:			•		•			Code
Description:								ID No.
Previous ABM No.								ABM Addendum N
	Addendum 4		Addendum 5		Addendum 6			Changes to this Pa
ABM Addendum No.				V				Date
Changes To This Part:	V -		•	V				Description
Date:			-		•			Previous ABM No.
Description:								
Previous ABM No.				V				
	Addendum 7	A	Addendum 8		Addendum 9			
ABM Addendum No.				V				
Changes To This Part:	▼		•	V	•			
Date:			•	V	•			
				V				
Description:				V				

 This tab to contain the part's Advance Bill of Material Information.

PARAMETER NAME	ATTRIBUTE NAME
ABM Number	PRELIM_MARK
Profile	4DCM_PROFILE
New Profile	4DCM_PROFILENEW
Length	4DCM_LENGTH
New Length	4DCM_LENGTHNEW
Material	4DCM_MATERIAL
New Material	4DCM_MATERIALNEW
Code	4DCM_CODE
ID No.	4DCM_ID
ABM Addendum No.	ADD1_NUM, ADD2_NUM ETC
Changes to this Part	ADD1_TYPE, ADD2_TYPE ETC
Date	ADD1_DATE, ADD2_DATE ETC
Description	ADD1_DESC, ADD2_DESC ETC
Previous ABM No.	ADD1_PRE, ADD2_PRE ETC

The HRN Tab.

PM			Subco	n		Firm		Projec	t
Basic Design		TQ	NOC	ABM	HRN	Vendor	Color	Log	Note
			н		s				
		Ho	Id Notice 1			Hold N	otice 2		
Status.:	V	Closed		•	\checkmark	Closed	-		
HRN No.:	\checkmark				\checkmark				
Issued Date:	\checkmark			-	\checkmark		-		
Issued by:	\checkmark				\checkmark				
Released Date:	\checkmark			-	\checkmark		-		
		Ho	Id Notice 3			Hold N	otice 4		
Status. :	V	Closed		-	V	Closed	-		
HRN No.:	\checkmark				\checkmark				
Issued Date:	\checkmark			-	\checkmark		-		
Issued by:	\checkmark				\checkmark				
Released Date:	\checkmark			-	\checkmark		-		
		Ho	Id Notice 5			Hold N	otice 6		
Status.:	V	Closed		-	V	Closed	-		
HRN No.:	1				\checkmark				
	\checkmark			-	\checkmark		v		
Issued Date:					1				
Issued Date: Issued by: Released Date:	V V V				V				

• This tab to contain the part's Hold Notices.

PARAMETER NAME	ATTRIBUTE NAME
Status	HRN1_STAT, HRN2_STAT ETC
HRN No:	HRN1_NUM, HRN2_NUM ETC
lassiand Datas	HRN1_ISSUEDATE,
Issued Date:	HRN2_ISSUEDATE ETC
Leave at leave	HRN1_ISSUEDBY,
Issued by:	HRN2_ISSUEDBY ETC
Delessed Date:	HRN1_RELDATE, HRN2_RELDATE
Released Date:	ETC



The	Vendor	Tab
THE	venuor	Tab.

	PM		Subco	on		Firm		Pro	iect
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	Job Number								
	it Name								
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	un Width								
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	pment Numl	her T					Revision		
	Modeller						Kension		
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	Checked D	ate							
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OK	NO [*]	TE: All blu	e items shou	ld be popula	ited using A	API tool to gi	et correct ir	Engineer	-
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e C	Apply	TE: All blue Mab.	lodify				et correct ir	Engineer	-
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PARTS TO BE COLOURED LEGEND:

THE NUMBERS IN <u>RED</u> ARE TO BE USED IN THE FILTER DIALOGUE BOXES, NOTE THAT THE FILTER IS TO BE LEFT BLANK FOR * "

2 - Hold RFI i.e Profile, location

- Interface (Steel, conc etc)

4 - Interface Checked

7 - Connx Checked

8 - Create Drawings (incl. on hold)

9 - Hold Design RFI

OK Apply Modify Get 🔽 / Cancel

Main Member Only
 Whole Assembly

3 - Issued for Approval w/ Holds

4 - Dwg RFA

6 - Re-Modeled

5 - Re-Checked

12 - Dwg on HOLD NOTICE

11 - Dwg IFF/ Construction

Connection Material Only
 Affected Part(s) Only

• This tab contains the Vendor Block Information.

PARAMETER NAME	ATTRIBUTE NAME
PDC Block Number	0Block_ID
PDC Job Number	0JobNo
Client Name	0Client
Revision	OBlockRev
Vendor	0Vendor
Description	ODescription
Detailed Description	0DetailedDescription
Design Drawing	0DesignDwg
Design Drawing Rev	0DesignDwgRev
Width	OWidth
Length	OLength
Belt Width	0BeltWidth
Weight	0Weight
Material	0Material
Equipment Number	0EquipmentNo
Tekla Modeller	0Modeller
Tekla Checker	0Checker
Tekla Checked Date	0DateChecked

- This tab contains the Part Color Status.
- Color tagging of parts is done using the iPDTeklaTool.
- Refer to the iPDTeklaTool documentation for more details about Color Coding.

PARAMETER NAME	ATTRIBUTE NAME
Member Status Explanation	COLOR

Procedure Number: Procedure Template - Number

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The Log Tab.

Tekla Structures x64 Beam (1)	This tab contains the second sec	ne Parts status
PM Subcon Firm Project	which will be auton	
Basic Design TQ NOC ABM HRN Vendor Color Log Notes	thru the iPDTeklaT	
iPDTekla Log		001.
Part GUID V ID51586565-0000-08F1-3133-363439343733		
Issued IFA Mark 🗹 Details 🗹	PARAMETER NAME	ATTRIBUTE NAME
Issued IFC Mark 🖉 Details 🗹	Checked Conx	PARTCHECKCONNX
	Member Finalised	PARTCHECKFINAL
	Checked Stick	PARTCHECKSTICK
	Part GUID	PARTGUID
	Issued IFA Mark	PARTIFAMARK
	Detail	PARTIFAMARKDETAIL
	Issued IFC Mark	PARTIFCMARK
	Detail	PARTIFCMARKDETAIL
OK Apply Modify Get F/F Cancel	This tab scattered	the Netze to Over
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e Notes Tab.	the standard Draw "Drawing Note Ov	ving Notes if the erride" in the drav s".
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The PM Tab.

Basic Design 1	TQ NOC	ABM	HRN Vendor	Color	Log	
PM	Subco	n	Firm		Projec	t
Header line 🛛 👽						
Notes line1 🔍						
Notes line2						
Notes line3 🔍						
Notes line4 🔍						
Notes line5 🔍						
Notes line6 🔍						
Notes line7 🔽						
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ABM Sticks Checked By:	√					
Checked Date:	1					
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Member Finalized By:	V					
Checked Date:	✓					
	iPDTekla - F	PDC Group		-		
	- norenu - I					
			🕥 pdc 📃			
			Engineerin	g Evolved		
OK Apply	Modify	Get				

The Subcon Tab.

Structures x64	Beam (1)							×
Basic Design	TQ N		ABM	HRN	Vendor	Color	Log	Notes
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Back Drafted Date :				Revised By	:			
Back Drafted By :				RFI No :	\checkmark			
Checked By :				RFI Comple	ted Date : 🔽			
Checkers Comment :								
Error Description								
						P (odc	
						-	Engineering	Evolved
OK Apply	Modify	6	et	F/F	Cancel	1		
(rdbd	, children,				- shield	,		

• This tab contains the Parts status which will be automatically populated thru the iPDTeklaTool.

×

lotes

PARAMETER NAME	ATTRIBUTE NAME
Header Line	PMNOTES0
Notes Line 1	PMNOTES1
Notes Line 2	PMNOTES2
Notes Line 3	PMNOTES3
Notes Line 4 - 12	PMNOTES4, PMNOTES5 ETC
ABM Sticks Checked By	CHECKED_BY
ABM Sticks Checked Date	CHECKED_DATE
Connx Checked By	CONNX_CHECKED_BY
Connx Checked Date:	CONNX_CHECKED_DATE
Member Finalized By	FINAL_CHECKED_BY
Member Finalized Checked Date	FINAL CHECKED DATE



- This tab contains Subcon specific data.
- The remaining "Firm" and "Project" tabs are for Firm and Project specific requirements and are not used for the time being.

PARAMETER NAME	ATTRIBUTE NAME
Back Drafted By	SCAD_BD_BY
Back Drafted Date	SCAD_BD_DATE
Checkers Comment	SCAD_CHECK_COMMENT
Checked By	SCAD_CHECKED_BY
Error Description	SCAD_ERROR
Revised By	SCAD_REVISED_BY
RFI No:	SCAD_RFI
RFI Completed Date:	SCAD_RFI_DATE

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3 Detailing Stage

3.1 General

Excel Design or Smiley shall be utilized as much as possible for connection modeling.

A connection builder, iPDTeklaCXTool is a Work-In-Progress now which will eventually replace Smiley.

3.2 Excel Design / Smiley

Excel Design Data shall be checked and reviewed by the Project Leader for each job or project prior to deployment.

DiPDTekla - Version : 1.0.2.0 iPDTeklaTool license will expire in 122 days _ 🗆 × Vision System + Normal View File MODELING DETAILING DRAWING RESOURCE NAME & COSTCODE DATABASE NA ŝ ... SPECIAL SAVE NORTH Addon Options : X Create Acis from Selected ● SELECTED ○ ALL ○ PHASE Exit Model DATABAS Select Phase Special Save Assembly Name & Costcode iPDTeklaCX / Excel Design 4.0 1 Part Orientation Review 1 Label Tool (Show custom part labels) Model Dimension Tool (Quick dimensions) Swap Handles (For beam and column) Offset (For beam and column) Extend/Trim (For beam and column) Extend/Trim + adjust elevation Extend along 2 picked points Extend beam to column center line Common Toolbar 2

The Excel Design toolbar is now within the iPDTeklaTool.

Refer to DT-AUS-WI-0328 for more details on using Excel Design / Smiley.

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4.1 General

The parts' prefixes and numbering settings described herein are the current PDC default or standard setup. Project specific settings maybe adopted for other or some future projects. Final numbering settings must always be referred to JMS, General Notes, Overview of Drawing System.

STOP

IMPORTANT! Before starting with numbering, it is always vital to check your model if all the part and assembly prefixes and start numbers are correct to avoid numbering conflicts.

4.2 Part Numbering Series

The parts' prefixes and numbering settings described herein are the current PDC default or standard setup. Project specific settings maybe adopted for other or some future projects. Final numbering settings must always be referred to JMS, General Notes, Overview of Drawing System.

ASSEMBLY / MAIN PART NUMBERING SERIES

① Main Part Prefix = "m" (If main part = Assembly is set, this will be automatically same as Assembly mark)

- 2 Main Part Start Number = 1001, or as being allocated in JMS
- 3 Main Part Assembly Prefix = "AREA PHASE NO.", or as being specified in JMS
- 4 Main Part Assembly Start Number = 1001, or as being allocated in JMS

		weekoonool.	"esterioriestestestestestestestestestestestesteste
Attributes Pos	sition Deforming		
Numbering se	ries		
	Prefix:	Start number:	
📝 Part	m ()	1001 (2)	
🔽 Assembly	1301PC-11- (3)	1001 4	
attributes	40101010.		

SECONDARY PART NUMBERING SERIES

Secondary part prefix has been pre-assigned for each specific area of a certain job in JMS, so Secondary part prefix must be as specified therein. A Fitting prefix might also be added as a prefix to the Part Prefix. Confirm with Project Leader or refer to the "Overview of Drawing System" in JMS.

Secondary part numbers shall always be pre allocated in JMS by each area and phase, so for every phase in the area of scope, certain numbering ranges are to be pre-assigned and will be used per phase.

Always confirm with Project Leader for the start number for secondary parts to be used per phase.

Assembly prefix for a secondary part shall always be "LOOSE" and Start number shall always be 1001. This is to easily identify "Loose" fittings which are to be part of an assembly.

Attributes Position Deforming						
Numbering se	ries Prefix:	Per JMS	Start number:			
🔽 Part	×		1001			
🔽 Assembly	LOOSE		1001			
Attributes						

INTERFACE OBJECTS NUMBERING

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Existing or Interface steelwork's parts/assembly shall be prefixed with "I/FACE" to make it clear to all third party users what the steelwork is.

Attributes	Position Deforming	
Numbering	g series	
	Prefix:	Start number:
📝 Part	I/FACE	☑ 1001
🔽 Assemb	ly I/FACE	1001
Autolas		

IF APPLICABLE, WHEN A JOB INVOLVES SUB-ASSEMBLIES & SUPER-ASSEMBLIES

Below is a sample numbering configuration and actual settings to be referred to JMS for the respective job.

1. Normal/Single Assembly Drawing (Not a Sub-Assembly or do not belong to any other Assembly)

AREA-PHASE NO.-SEQUENTIAL NO.

EX: WHARF-01-1001

*Set Properties as below: (Assembly Start Number shall always be 1001)

Seam Propert	ies		X
Save Load s	tandard	▼ Save as standard	
Attributes Pos	ition Deforming		
-Numbering se	ries		
	Prefix:	Start number:	
🔽 Part	m	☑ 1001	
Assembly	WHARF-01-	1001	
Attributes	Well-based on processory		

*2D drawing normally created as a normal assembly

2. **Sub-Assembly Drawing** (An Assembly that is a member or belongs to another Assembly, herein referred to as a Super-Assembly)



AREA-PHASE NO.-SA+(SEQUENTIAL 3 DIGIT NUMBER)

EX: WHARF-01-SA001

*Set Properties as below: (Assembly Start Number shall always be 1)

🛜 Beam Proper	ties	— ×	
Save Load	standard	▼ Save as standard	
Attributes Po:	sition Deforming		
-Numbering se	eries		
	Prefix:	Start number:	
🔽 Part	m	1001]
🗸 Assembly	WHARF-01-SA	☑ 1	
Attributes			

*2D drawing normally created as a normal assembly

3. Super-Assembly (Composed of Sub-Assemblies)

AREA-PHASE NO.-SEQUENTIAL NO.

EX: WHARF-01-2001

*Set Properties as below: (Assembly Start Number shall always be -20XX)

XX- If the Super-Assembly requires additional sheets; the next Super-Assembly number is to be adjusted. The minus (-) sign in front of the number is forcing Tekla to assign such number.

STekla Structures x64	Steel Assembly (1)				×
Save Load	< ExternalDesign >	▼ Save	e as		
Part Reference	Vendor Bloc	k Data	Steelcad C	heck	4DGG UDA's
Assembly	Status	Param	eters[UD]	Hol	d/TQ Information
Prefix		VH	ARF-A-01-		
Start number		-200)1	ノ	
Assembly name		BO)	(_FRAME	-	

4.3 The Numbering Setup

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Chapter 1 Working Procedures

Tekla Structures categorizes objects as being similar or different based on setting within the 'Numbering Setup' dialog box. By default, a part retains its number, as long as only one part has that particular number, regardless of the settings in the Numbering Setup dialog box.



IMPORTANT! It is recommended to always perform a FULL numbering (Diagnose and Repair Numbering: All) instead of a Modified numbering whenever possible. Full numberings do more database checks than Modified numberings, so this is considered the safest way to avoid potential numbering conflicts & database problems.

Numbering Setup	DEFAULT	[23
Save Load standard	▼ [Save	ve as standard	
Options Renumber all Re-use old numbers Check for standard parts Check for standard parts New: Compare to old Modified: Compare to old Synchronize with master model (save-number) Automatic cloning 7	(4.31) • ering-save) (6)	Compare 4.32 Holes 4.32 Part name 4.32 Beam orientation 3 Column orientation 4 Column orientation 4 Reinforcing bars 5 Embedded objects 6 Surface treatment 7 Tolerance: 8 Steel 1.00 Concrete 1.00 Reinforcing bar 1.00 Other 1.00	
Assembly position sort order Sort by (4.33)			
Then by			
Then by • • • Ascer © Desce	1000		
		Cano	el

4.31 Numbering "OPTIONS" Settings Explained:

1	v	
	Ontion	Description
	Option	Description



Option	Description
1 Renumber all	All parts get a new number. All information on previous numbers is lost.
2 Re-use old numbers	Tekla Structures reuses the numbers of parts that have been deleted. These numbers may be used to number new or modified parts.
3 Check for standard parts	If a separate standard-part model has been set up, Tekla Structures compares the parts in the current model to those in the standard-part model.
	If the part to be numbered is identical to a part in the standard-part model, Tekla Structures uses the same part number as in the standard-part model.
4 S Compare to old	The part gets the same number as a previously numbered similar part.
45 Take new number	The part gets a new number even if a similar numbered part already exists.
45 Keep number if possible	Modified parts maintain their previous numbers if possible. Even if a part or assembly becomes identical with another part or assembly, the original position number is maintained.
	For example, you might have two different assemblies, B/1 and B/2, in the model. Later on you modify B/2 so that it becomes identical with B/1. If the Keep number if possible option is used, B/2 will maintain its original position number when you renumber the model.
6 Synchronize with master model	Use this setting when working in multi-user mode. Tekla Structures locks the master model and performs a save, numbering, and save sequence, so that all other users can continue working during the operation.
Automatic cloning	If the main part of a drawing is modified and therefore gets a new assembly position, the existing drawing is automatically assigned to another part of the position. If the modified part moves to an assembly position that does not have a drawing, the original drawing is automatically cloned to reflect the changes in the modified part.

4.32 Numbering "Compare" Settings explained:

Option	Description
1 Holes	The location, size, and number of holes affect numbering.
Part name	The part name affects numbering.
3Beam orientation	The orientation of beams affects numbering.
Olumn orientation	The orientation of columns affects numbering.
S Reinforcing bars	The orientation of reinforcing bars affects numbering.
6 Embedded objects	The orientation of equal embedded objects affects numbering.
OSurface treatment	Surface treatments affect the numbering of assemblies.
⁸ Tolerance	Parts get the same number if their dimensions differ less than the value entered in this box.

Procedure Number: Procedure Template - Number

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Regardless of the Numbering Options settings, the Numbering Compare settings are all checked by default. Each of the above compare items when selected or ticked will affect numbering. Settings must not be changed without confirmation with PL.

Beam Orientation and Column Orientation are checked by default. Meaning two identical assemblies with different model orientation will be marked different.

For special cases, pending project nature, the Compare Beam and Column orientation can be changed, e.g. Tank Support, comprising of circular array of columns etc... To minimize quantity of drawings, compare beam and column orientation can be switch off and GA or Marking Plans to reflect mark position = mark end. PL confirmation must always be sought beforehand.

4.33 Numbering "Assembly Position Order" Settings explained:

Option	Description
Assembly position sort order	 The sort order can be based on the following criteria: The x, y or z coordinates of the main part of the assembly The sorting is based on the centre of gravity of the reference axis. The user-defined attribute of an assembly or the main part If your sorting is based on user-defined attributes, Tekla Structures displays a list box that includes all the available user-defined attributes.

No specific settings required for the Assembly Position Sort Order.



IMPORTANT! Ensure that assembly and part prefixes and start numbers are correct and are on the right Phase number as per the Client requirements before doing every numbering.



Numbering Setup will vary depending on cases of the model stage or drawing submittal stage when the numbering needs to be performed. Recommended settings for these cases are enumerated below but user may adopt another setting as the project requires:

			RE	COMMEND	ED NUMBER	ING SETTING	is (RESOURC	ES)		
			OPTIONS		N	W		MODIFIED		
NO.	CASES	Renumber all	Re-use old numbers	Check for standard parts	Compare to old	Take new number	Compare to old	Keep number if possible	Take new number	PRE-SAVED NAMES
1	ABM Numbering (If Required)	~			~		~			PDCG-0_ABM_Numbering
2	1st or Initial Numbering	~		~	~		~			
3	Submitting for Model Review, before drawing creation	~		~	~		~			PDCC 4 Initial Numbering
4	Model Issued for Review, create 2D drawings before receiving Model Review Comments	~		~	~		-			PDCG-1_Initial_Numbering
5	Revision per Model Review Comments, ready for 2D drawing creation	*		~	~		~			
6	Revisions after 2D drawings were created but not yet edited and checked		*	~	~		~			PDCG-2_Before_Creating_Drawings_1st_Submittal
7	Revisions after 2D drawings were created, edited and checked but not yet IFC		~	~	*		~			PDCG-2_Before_Creating_Drawings_1st_Submittal
8	Revisions after 2D drawings were IFC and keep numbers if possible			~	*			1		PDCG-3_After_Issuing_Drawings_1st_Submittal

4.34 Recommended Settings for Each Case/Stage:

Save Loa	d PDCG-0_ABM_N	lumbering	•	Save as	PDCG-0_ABM_Nu
Numbering	Family numberin	9			
Check fi New: Modified:	old numbers or standard parts Compare to old Compare to old	▼ ▼	Compare Holes Part nam Beam orio Column o Reinforci Embedde	entation orientati ng bars :d objec	on ts
🔽 Automa	tic cloning		Tolerance: Steel Concrete Reinforcing Other	1) 1, bar 1, 1,	00 00
0.000.000.000.000.000	position sort order				
Sort by X		O Ascending O Descending			
γ		 O Descending 			
Then by - Z		▼ ● Ascending			

4.34.1 Cases 1 – ABM Numbering (if required)

• All parts get a new number. All information on previous numbers is lost



Save Load PDCG-1_Initial_Numbering	▼ Save as PDCG-1_Initial_Nu	4.34.1 Cases 2~5 - PDCG-
		<u>1 Initial Numbering</u>
Numbering Family numbering		
Options V Renumber all	Compare V Holes	All parts get a new number. All
Re-use old numbers	V Part name	information on previous numbers is lost
		iniornation on previous numbers is lost
Check for standard parts	Beam orientation	
New: Compare to old 👻	Column orientation	
Modified: Compare to old	Reinforcing bars	
	Embedded objects	
Synchronize with master model (save-numbering-save)	Surface treatment	
Automatic cloning	Tolerance:	
	Steel 1.00	
	Concrete 1.00	
	Reinforcing bar 1.00	
	Other 1.00	
Assembly position sort order		
Sort by		
X Ascending		
🗇 Descending		
Then by		
Y Ascending		
O Descending		
Then by		
Z • Ascending		
⑦ Descending		
OK Apply	Cancel	
	Cancel	
Numbering Setup		4.34.2 <u>Case 6 & 7 - PDCG-</u>
Numbering Setup Save Load PDCG-2_Before_Creating_Drawings_1st_Submit		4.34.2 <u>Case 6 & 7 - PDCG-</u> 2 Before Creating Drawings 1st Submitts
Save Load PDCG-2_Before_Creating_Drawings_1st_Submit	ttal • Save as PDCG-2_Before_Cr	2 Before Creating Drawings 1st Submitte
Numbering Setup Save Load PDCG-2_Before_Creating_Drawings_1st_Submit Numbering Family numbering Options	ttal	 <u>2 Before Creating Drawings 1st Submitta</u> Tekla Structures reuses the numbers of page
Save Load PDCG-2_Before_Creating_Drawings_1st_Submit	ttal • Save as PDCG-2_Before_Cr	2 Before Creating Drawings 1st Submitte
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Save Load PDCG-2_Before_Creating_Drawings_1st_Submit Numbering Family numbering Options Renumber all ? Reve contract of the standard parts New: Compare to old Modified: Compare to old ? Synchronize with master model (save-numbering-save) ? Automatic cloning Assembly position sort order Sort by X • @ Ascending Then by • @ Ascending Y • @ Ascending	ttal Save as PDCG-2_Before_Cr Compare PHoles Part name P Beam orientation C Column orientation Reinforcing bars Embedded objects Surface treatment Tolerance: Steel 1.00 Concrete 1.00 Reinforcing bar 1.00	 2 Before Creating Drawings 1st Submittate Tekla Structures reuses the numbers of partial that have been deleted. These numbers may be used to number new or modified parts. New and modified parts get the same numbers as a previously numbered similar part. If previously numbered similar part, it will get the same number of similar part.
Save Load PDCG-2_Before_Creating_Drawings_1st_Submit Numbering Family numbering Options Renumber all Image: Poly options Image: Poly options Compare to old Image: Poly option and the parts New: Compare to old Modified: Compare to old Image: Synchronize with master model (save-numbering-save) Automatic cloning Assembly position sort order Sort by X Image: Opescending Then by Image: Opescending Then by Image: Opescending	ttal Save as PDCG-2_Before_Cr Compare PHoles Part name P Beam orientation C Column orientation Reinforcing bars Embedded objects Surface treatment Tolerance: Steel 1.00 Concrete 1.00 Reinforcing bar 1.00	 2 Before Creating Drawings 1st Submittate Tekla Structures reuses the numbers of partial that have been deleted. These numbers may be used to number new or modified parts. New and modified parts get the same numbers as a previously numbered similar part. If previously numbered similar part, it will get the same number of similar part.
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Numbering Setup		×	4.34.5 <u>Case 8 - PDCG-</u>
ave Load PDCG-3_After_Issuing_Drawings_1st_Submittal	▼ Save	as PDCG-3_After_Issu	3_After_Issuing_Drawings_1st_Submittal
umbering Family numbering			
Options	Compare		Modified parts maintain their previous
Renumber all	W Holes		
Re-use old numbers	🔽 Part name		numbers if possible. Even if a part or
$\overline{\mathbb{Z}}$ Check for standard parts	📝 Beam orientat	ion	assembly becomes identical with another
New: Compare to old	Column orient	tation	part or assembly, the original position
Modified: Keep number if possible 🔹	Reinforcing ba	irs	number is maintained.
Nodified: Keep number it possible	Embedded ob	jects	number is maintained.
$\overline{\ell}$ Synchronize with master model (save-numbering-save)	Surface treatm	ient	
Automatic cloning	Tolerance:		
	Steel	1.00	
	Concrete	1.00	
	Reinforcing bar		
	Other	1.00	
A	Utiler	1.00	
Assembly position sort order Sort by			VIIIIII
χ			
© Descending			
[hen by			
γ			
O Descending			
[hen by			Ч <i>т</i>
Z • O Ascending			
O Descending			
OK Apply		Cancel	

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4.4 Numbering Parts

After numbering setup has been applied, select "Apply", then "OK", then select "Tools \rightarrow Diagnose & Repair Numbering: All".

Diagnose & Repair Model	•	- U	Diagnose Model
Display Log File	•		Repair Model
Defaults	•	۹,	Diagnose Library Database (xs_lib)
Enter a Numeric Location	•	•	Repair Library Database (xs_lib)
Ortho	0	×	Diagnose & Repair Numbering: All
Coordinate Locks	•	- 😺	Diagnose & Repair Numbering: Series of Selected Objects
Change Language			Diagnose & Change Attribute Definitions
Change License Server			Find Distant Objects



IMPORTANT! Once a numbering has been completed, TEKLA will display a numbering log on the screen, for the person who performed the numbering to review. This shows **EXACTLY** what has been changed during the last numbering and provides the detailer with the option to **CANCEL** the numbering, if they are unhappy with the results, or unsure about the changes being made. Tekla Structures will save the numbering after 150 seconds (default), if the user has not selected **OK or** has not stopped the Timer. Click on "Stop Timer" if more time is needed to review the changes being made.

Overlapping Numbering Series

When you plan numbering, ensure that you reserve enough numbers for each series. If a series overlaps another, Tekla Structures might allocate the same number to different parts and this may lead to corruption of the model.

Tekla Structures warns you about series overlaps. View the numbering history log to check which numbers overlap.







This error message is NOT to be ignored. Overlapping numbering series errors are serious, and MUST be resolved before any further drawings are issued or proceeding any further.

The report "*iPDTekla_QA_Check_Part_StartNumber.csv*" can assist in checking which part or parts have incorrect start numbers or which ones need to be changed.

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Changing Part and Assembly Numbers

If and when it becomes necessary to force a certain position number on a part or assembly, with the confirmation of the PL, follow below procedure.

Clear existing part or assembly number

To clear the position numbers:

- 1. Select the objects whose numbers you want to clear.
- 2. Click Drawings & Reports > Numbering > Clear Numbers and select one of the commands:



If successful, TEKLA Structures will display:

🔀 Tekl	a Structur 🔜
\bigcirc	Numbers cleared.
ОК	

Change part or assembly numbers

To change the position numbers:

- 1. Select an object.
- 2. Click Drawings & Reports > Numbering > Change Number and select one of the
 - commands:
 - Assembly Number...
 - Part Multinumber...
 - Assembly Multinumber... Family Number...
- 3. Set the desired properties. The options you have vary depending on your selection in step 2.

📓 Assign Part N	umber	— ———————————————————————————————————
Numbering series:		2000
Position number:		10
Part number:	2009	
Assign	Get	Cancel



For the part number, all objects with the same number will be given the number you specified. This command does not change the numbering series.

🔀 Assign Assem	bly Numb	er 💌
Numbering series:	β	2000
Position number:		10
Assembly number:	B/2009	
Assign to: 🔘 Sele	cted object:	s only
💿 Obje	ects with san	ne number
Assign	Get	Cancel

For the assembly number, you can choose whether to assign the number to the "Selected objects only" or to "Objects with the same number"

If the number you specified is already in use, Tekla Structures displays a warning and does not change the number. Tekla Structures also displays a warning if the position number is higher than the highest current number. This is for information only and the number is still changed.

4. Click Assign.



5 Drawing Stage

5.1 General

All shall be created using the Rule sets or Wizards and the saved settings in the Master Drawing Catalog as much as possible. Drawing sizes will be automatically selected depending on assembly size and number of annotations.

5.2 Creating Drawings

Creating General Arrangement Drawings or Marking Plans

General Arrangement Drawings or Marking Plans are to be created using the applicable Pre-saved settings below:

	🍋 🔚 🖬 🛛 💑 🚱	Search	
General arrangement drawing	JS	Store	
Master drawing name	Master drawing type	Drawing to be created	
SAIPDTekla-GA-Elevation	Saved settings	General arragement drawing	
SAiPDTekla-GA-Isometric	Saved settings	General arragement drawing	
SAiPDTekla-GA-Plan	Saved settings	General arragement drawing	
SAiPDTekla-Module	Saved settings	General arragement drawing	
SAstandard	Saved settings	General arragement drawing	

Or you can also select and apply the saved settings using the General arrangement drawing properties below:

Save	Load	iPDTekla-GA-P	lan	- S	ave as	iPDTekla-GA-Plan
		standard iPDTekla-GA-El	levation			<i>y</i>
Name:	DRG NUM	BE iPDTekla-GA-Is	ometric			
Title 1:		iPDTekla-GA-P				
Title 2:	1	iPDTekla-Modu	ile			
Title 3:	iPDTekla-0	iA-Plan				
Settings						
V	Use detaile	d object level sett	tings 🔘	No 🔘 Yes		Edit settings
Views						
	1	ayout		View		Detail view
Dimensions		1. J				<u>}</u>
	Dir	nension		Dimensioning		
Marks						
<u> </u>	Pa	rt mark		Bolt mark		Neighbor part mark
7	Surface tr	eatment mark		Connection mark		Reinforcement marks
Objects	- [
objects V	1	Part		Bolt		Neighbor part
1.0						
	Surfac	e treatment		Weld		Reinforcement
V	Refere	nce objects		Grid		
Others						
	Pro	tection		Filter		Neighbor part filter
	User-defi	ned attributes				
1	J Oser den	ned demodels				



Marking Plan UDA: Reference Tab

Workflow Reference Options Notes Marking Plan: Image: Image	Tekla Structures x64 GA drawing (J	1)	
Design Reference: Mark Options Lock: Piece Mark Options: Piece Mark Options: Marking Plan: may not be applicable to some drawings so can be kept Design Reference: Most relevant Design Drawing No. shall be inputted. Mark Options Lock: Just use to lock and unlock Piece Mark Options Piece Mark Options: Mark Options Lock to be set to "Unlock Mark Options" Piece Mark Options: Mark Options Lock to be set to "Unlock Mark Options" Piece Mark Options: Mark Options Lock to be set to "Unlock Mark Options" Piece Mark Options: Mark Options Lock to be set to "Unlock Mark Options" Piece Mark Options: Mark Options Lock to be set to "Unlock Mark Options" Piece Mark Options: Mark Options Lock to be set to "Unlock Mark Options" Piece Mark Options: Mark Options is set Tekla Structures x64 GA drawing () Vorkflow Reference Design Reference: Mark Options Lock: Piece Mark Options: Piece Mark Options: Piece Mark Options: Piece Mark Options: Piece Mark Prefix UNO: Piece Mark Piece Pie	Workflow Reference Options N	otes	
Mark Options Lock: Piece Mark Options: PRELIMINARY Marking Plan: may not be applicable to some drawings so can be kept biank. Design Reference: Most relevant Design Drawing No. shall be inputted. Mark Options Lock: Just use to lock and unlock Piece Mark Options Piece Mark Options: Mark Options Lock to be set to "Unlock Mark Options" first to select below settings: PRELIMINARY - can be used in preliminary Marking Plans where the part marks includes Profile, Material & Cost Code FULL ASSEMBLY MARK - Part Mark will be the Full Assembly Mark ASSEMBLY MUMBER - Can be used for models that have a common assembly prefix. Remove the prefix from the part mark and will create note at the lower right of the drawing sheet "ALL MARK'S PREFIXED BY: xxxxxx* OK Apply Modify Get Cancel When Unlock Mark Options is set Tekla Structures x64 GA drawing (1) Workflow Reference Marking Plan: Design Reference: Mark Options Lock: Piece Mark Options: Piece Mark Options: Piece Mark Options: Piece Mark Options: Piece Mark Prefix UNO: Piece Mark Piece Mark	Marking Plan:		
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Marking Plan UDA: Options Tab

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Creating Multi Sheet Drawings

Chutes and Super-assemblies mostly require additional drawing sheets (Multi-Sheet drawing) to accommodate sections and views.

This can be done by creating an empty general arrangement ("G") drawing and the views to be linked to it are from the 1st or original assembly drawing. Edit only the 1st drawing together with the views intended to be shown on the secondary sheets.

UDA attributes and other options are the same that of a Marking Plan or of a "G" drawing above.



IMPORTANT! Note that the number for this drawing needs to be reserved to ensure that it cannot be adopted by any other drawing number within the same model. If applicable, you can model a "dummy" part and the reserved number needs to be allocated to it.



Creating Assembly and Fitting Drawings

Assembly and fitting drawings shall be created using the AutoDrawings Rule sets.

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Assembly Drawing Properties UDA: Reference Tab



Procedure Number: Procedure Template - Number

Apply

OK

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Assembly and Fitting Drawing Properties UDA: Notes Tab

Creating Multi-Drawings (Liners)

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We have saved settings for Liners when using AutoDrawings in creating Liner assembly drawings.

Depending on the type of liner being detailed there may be a requirement to change the default view drawn (to part front) to a view on the part back (i.e. to suit whether studs are to be drawn towards or away from the view. To do this open the first Liner drawing in the set and open drawing properties. Load "iPDTekla-Assembly-Liner_multi_reversed" and click modify against each liner that requires a view from the back and not the default view. You will note that this will load Title 2 against the liner drawing with "reversed". Do not remove this text. It is required for the production of the Liners dxf files.



When a set of Liner content drawings have been 2D edited and are ready to be placed unto a Multidrawing, select all of the liner drawings in the Drawing List, right click and go to "Create Drawings -> Multi-Drawing -> Selected Drawings with Layout".

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25.03.2014	00.00.0000	180* 12	Freeze	•		Selected Drawings
25.03.2014	00.00.0000	180*12	Issue	+		
25.03.2014	00.00.0000	180*12	Undo	Ctrl+Z		Selected Drawings with Layout
25.03.2014	00.00.0000	180*12				iPDTekla-Assembly-Liner_multi
25.03.2014	00.00.000	.180*12	Redo	Ctrl+Y		

This will produce Multi-Drawings with all the selected liners drawn in a grid of rows and columns.

Pre-defined layout are for A0 and A1 size drawing sheets.

In cases where parts other than liners and studs need to be called off in the Bill Of Materials (BOM), the user should input the text "output" into the part's UDA "Misc. Info" field.

Note that for BHP contracts stud bolts should be modeled as parts not Tekla studs (i.e. not applied through the bolt catalogue). Only drill liners if the design drawing specifically calls for it – if in doubt, ask.

These content drawings should be edited as required to subsequently be collated on a multi drawing.



IMPORTANT! If any changes need to be made to any individual liners the changes should be made to the liner assembly drawing and then update the multi drawing based on these changes. Liners should not be altered in the multi drawing.

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Chapter 1 Working Procedures

6 Issuing Stage

6.1 General

All 2D drawings for the Phase(s) to be issued should have been completed, that is, quality checked, backdrafted and up to date before issuing. Freeze and Lock all drawings for Issue.

Generally at PDC, issues are broken into phases and steelwork type, i.e. Steelwork, Handrailing, Grating, and Liner.

Make sure that the drawing numbers of the drawings for issue are allocated in JMS.

6.2 iPDTeklaTransmittal Interface PDTeklaTransmittal Version 1.00 _ X Welcome to iPDTeklaTransmittal! This wizard will guide you through the rest of transmittal process. Vou have to complete all the steps to process the transmittal. To begin the process, click Next. < Back Next > Cancel

The iPDTeklaTransmittal start-up icon is within the iPDTeklaTool.

Procedure Number: Procedure Template - Number

Step 1. Complete the transmittal information.

- Transmittal Type
 - Issue Type
 - Issue Phase

0	iPDTeklaTransmitta	al Version 1.00 _ X	
STEP 1 Complete the	e transmittal information	Pdc Engineering Evolved	
	CHOOSE TRANSMITTAL TYPE	CHOOSE ISSUE TYPE	
	00_Marking Plan 01_Structural 02_Handrail 03_Grating 04_Liner 06_Bolt_Report	IFC CHOOSE PHASE TO BE ISSUED	
		0000 : MARKING PLANS • 0000 : MARKING PLANS • 0001 : Phase 1 • 0006 : STEELWORK • 0007 : HANDRAIL • 0008 : GRATING • 1000 : Phase 1000 • 1006 : INTERFACE STEELWORK • 1007 : INTERFACE HANDRAIL • 1008 : INTERFACE GRATING •	

Step 2. Confirm the transmittal information.

	All all and a	
0	iPDTeklaTransmittal Version 1.00	_ ×
STEP 2 Confirm the transmittal	l information.	Pdc Engineering Evolved
Transm	ittal Type :	
01_9	Structural	
Issue T	ype :	
IFC		
Phase :		
000	6 : STEELWORK	
	Make sure the transmitta	l information is correct.
	To continue, click Next.	
	< Bac	ck Next > Cancel

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Step 3. Pre-issue Validation Reports.

If "Run" is clicked, the selected objects for issue will be scanned and checked for the following errors:

- 1. Cost Code
- 2. Paint Treatment/Finish
- 3. All drawings are complete
- 4. All drawings have Marking Plan References

If there are errors found, a dialogue will prompt and show the categories for errors and the list of the number of error objects and selectable list of the parts in error.

If you have run the audit before running the Transmittal tool, this validation can be by-passed.

STEP 3 Pre-issue validation reports. Make sure to pass all the validation				
Pre-issue validation reports. Make sure to pass all the validation reports before doing the next step. IMPORTANT! MAKE SURE TO SELECT THE PARTS IN THE MODEL Available Pre-issue Validation Reports XSR Blank Costcode XSR Blank Paint Treatment XSR No Drawing - All		iPDTeklaTransmittal Version 1.00		_ ×
Available Pre-issue Validation Reports XSR Blank Costcode XSR Blank Paint Treatment XSR No Drawing - All	Pre-issue vali		on 🜔 P	C Engineering Evolved
XSR Blank Paint Treatment XSR No Drawing - All	-		IN THE MODEL	
	2	XSR Blank Paint Treatment XSR No Drawing - All		
Run Validation completed. Click next to continue.		Validation completed. C		ue.

Check the "Validation completed" checkbox to continue.

Step 4. Clean-up _PDFS folder in preparation for the transmittal.

All files needed for the transmittal will be stored first in the folder "D:_PDFS" (Manila Office) and in "C:_PDFS" (All other Offices), so this step will prompt to clean-up the drive before creating the files, otherwise the existing files therein will be included in the issue package.

If you need the files located therein but not to be included in the issue package, it can be moved to other location before clicking "Clean PDFS" button and Next to continue.

Procedure Number: Procedure Template - Number



Step 5. Transmittal Details.

Confirm if details are correct. Click Next to continue.	Confirm if details	s are correct. (Click Next to	continue.
---	--------------------	------------------	---------------	-----------

Contraction of the second seco	Construction.	And the forest of the foreign by	"etertery
Ø	iPDTeklaTransmitta	al Version 1.00	_ ×
STEP 5 Complete the Transmittal	Details	(pdc Engineering Evolved
	Put your initial	here ECJ	
Complete all th	e details below for As	ia Pacific Office:	
LOT Number (Transmittal No)	Ţ	Revision Delivery Filte	
Transmittal Title			
Model Connec	tion Details:		
			U HAVE 2 INSTANCES OF THE MODEL TO BE ISSUED.
PDC Job No	0100		
PDC Area	CV101		
PDC Model	CV101-C-BLOW	ER FRAME	
		< Back	Next > Cancel

pdc

Engineering Evolved

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Step 6. Deliverable Scripts.

Run All if a complete transmittal package is required. Run Selected if only certain reports need to be outputted.

D	iPDTekla	Transmittal	/ersion 1.00	_ ×	
STEP 6 Deliverat	ole Scripts		()	DC Engineering Evolved	
	IMPORTANT! MAKE SU	RE TO SELEC	T THE PARTS AND DRAWIN	GS	
	Deliverable_Scripts	Status			
	IFC Structural Reports				
	Structural NC-DXF				
	Mark Report				
	Material Report				
	Transmittal				
	Print Drawings				
	Structural NC Scribing				
	Post Processor			Ŧ	
			Run Selected Run All		
			< Back Next >	Cancel	
		sol contains term	wood and tools.		

Click Next and below confirmation will be prompted:



Files preparation process will start. Until...

	iPDTekla Message	×
i	Processing Deliverables Complet	ted
	<u>о</u> к	



	iPDTekla		_ ×		
STEP 6 Deliverab	le Scripts			ring Evolved	
	IMPORTANT! MAKE SUI	RE TO SELECT THE PARTS	ND DRAWINGS		
	Deliverable_Scripts	Status	▲		
	IFC Structural Reports	processing completed!			
	Structural NC-DXF	processing completed!			
	Mark Report	processing completed!			
	Material Report	processing completed!			
	Transmittal	processing completed!			
	Print Drawings	processing completed!			
	Structural NC Scribing	processing completed!			
	Post Processor	processing completed!	-		
		Run Selected	Run All		
		Process completed. Clic	k next to continue		
		< Back	Next >	Cancel	

The Final prompt. Open Folder will open the transmittal folder within the _PDFS folder.

0	iPDTeklaTransmittal V	ersion 1.00	_ ×
Issue Scripts Co All scripts has b	ompleted seen completed		eering Evolved
	Transmit	ttal package located D:_PDFS	
		Open Folder	
		< Back Finish	Cancel



7 Reference Videos and Work Instructions

Refer below link for iPDTekla Work Insturctions and Instructional Videos:

http://vision.pdcgroup.com/Operation/0004%20Technical/000%20iPDTekla/work instructions/default.html

