

# TECHNIA

ADDNODE GROUP



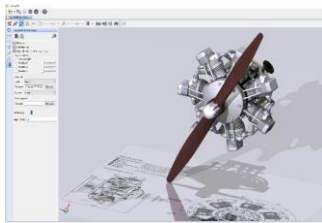
## Lite3D

Establish 3D as an affordable common collaboration language beyond engineering throughout the extended enterprise.

EXPERIENCE PACKAGED

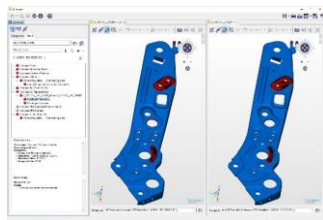
Professional JT portfolio driven by customer input with solid release cycle

ISO based own JT toolkit with full control and best performance



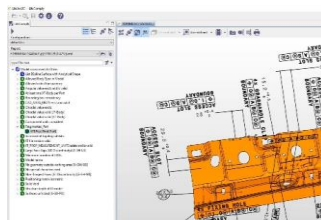
**LiteBox3D**

Desktop and Web Viewing



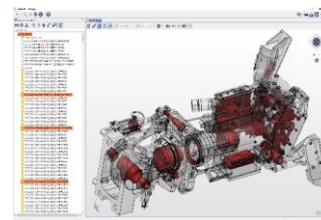
**xCompare**

Validation



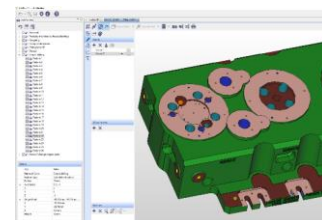
**LiteComply**

Data Quality



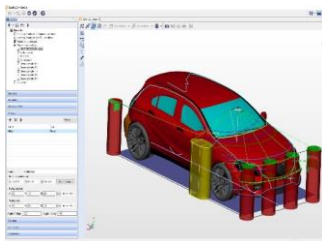
**LiteDrop**

Data Simplification & IP Protection



**LiteMachine**

Design to Manufacture



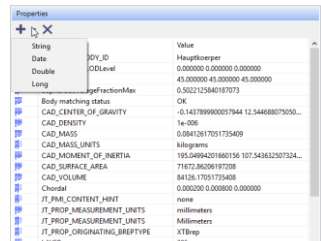
**LiteCar**

Vehicle Homologation



**LiteImage**

Image Capturing (Batch)



**LiteProperties**

Properties editing (batch)



**3DHTML**

3DHTML creator (batch)

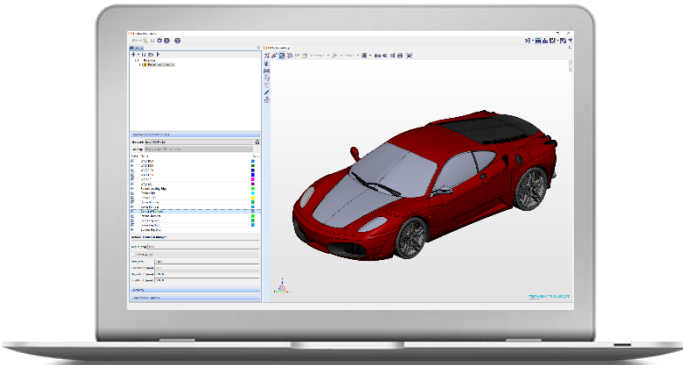


**Custom Apps**

LiteSilhouette, LiteCCC, ...

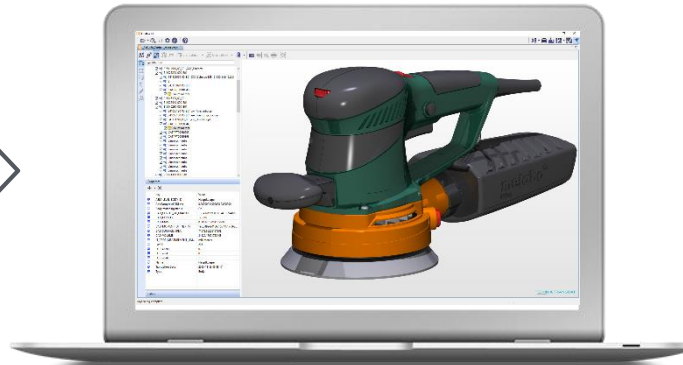
# LiteBox3D

Desktop and HTML5 web based viewer for JT, PLMXML, STEP AP 242 XML and TIFF



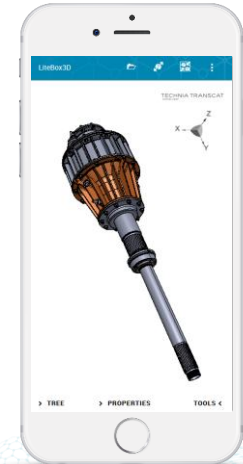
## Free Desktop viewing

Most User friendly JT viewer on the market



## Pro Desktop viewing

Desktop Viewing with enhanced functionality



## Web viewing

Viewing on any device

# LiteBox3D Free

Most User friendly JT viewer on the market



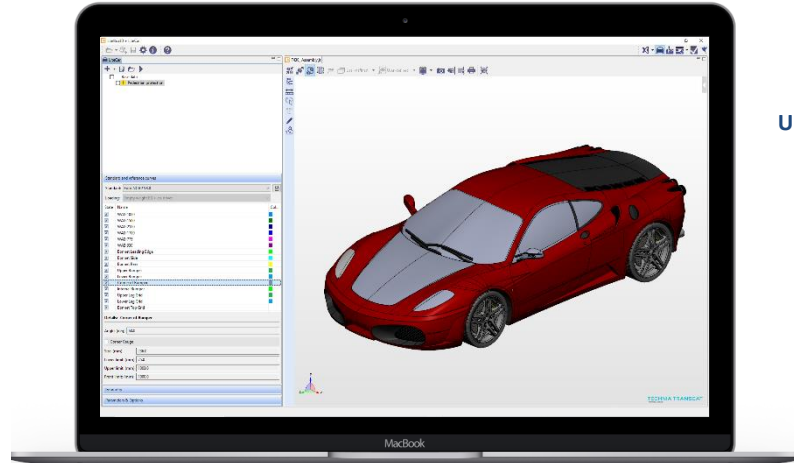
## NO LIMITS

Powerful own JT  
ISO 14306:2012  
toolkit



## PLATFORM

LiteBox3D as a  
platform for  
process  
applications



## USER-FRIENDLY

LiteBox3D is  
characterized by its  
user-friendliness.



## FREE

Free version for  
commercial usage

# LiteBox3D Pro

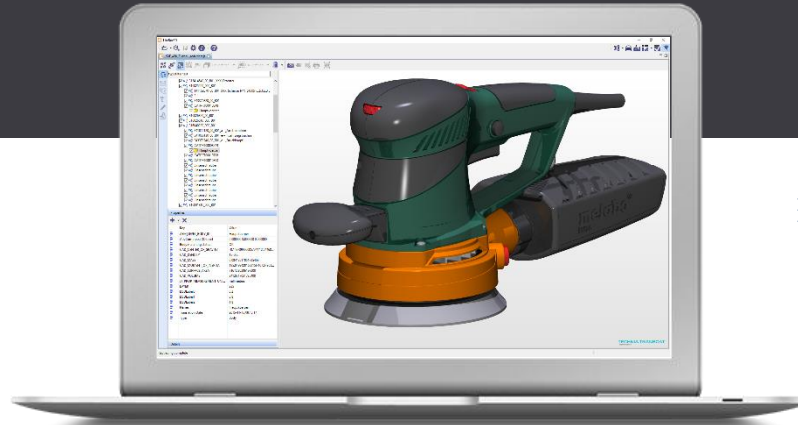
Desktop Viewing with enhanced functionality



## EXTENDED

Additional powerful features

- Advanced measurement and clipping
- Edit Properties
- Redlining
- Move parts
- Silhouette creation
- Geometry / Topology analysis
- 3D HTML Export
- PMI Tree
- Ray tracing



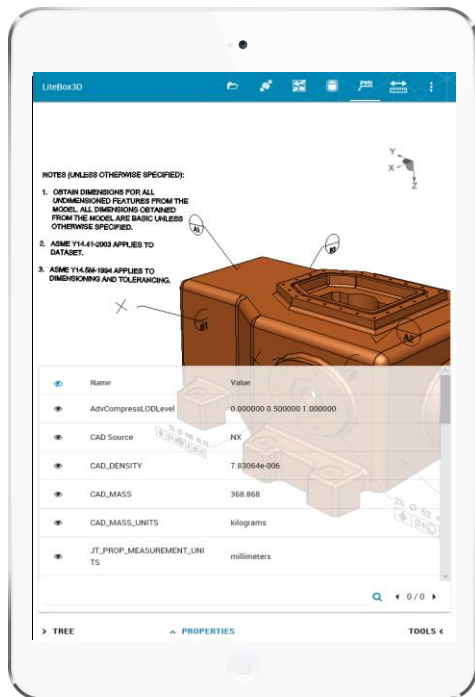
## SIMPLE INTEGRATION

JAVA Eclipse and DDE interface allows communication with any third party products e.g. Adobe Acrobat Reader.



## YOU WANT MORE...

Solid release cycle driven by customer input



# LiteBox3D Web viewer

Viewing of 3D on and Device

## OPEN STANDARDS

Based on HTML5, WebGL and modern browsers. TECHNIA supports the CPO Initiative (Code of PLM Openness)

## IP PROTECTION

No file based model exchange between users. Models remain on server at any time

## LOW COSTS

Client-side rendering

## EASY ACCESS ON ANY DEVICE

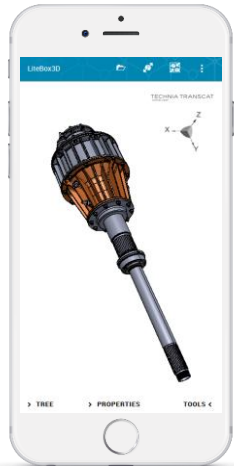
Whether on mobile or at your desk, you can access your 3D-models from every device.

## ALWAYS UP TO DATE

No more confusion due to different releases of the same model, the latest version is always accessible

## PWA / OFFLINE MODE

Keep on working even when disconnected from internet



# 3DHTML

Ready to share 3D!

## ONE FILE

Bundles LiteWeb App + 3D data + HTML Template into a .html which offers all functionality offline

## IP PROTECTION

Protect files with password and set file expiration date

## CUSTOMIZATION

Customized templates upon user requirements

## EASY ACCESS ON ANY DEVICE

Whether on mobile or at your desk, you can access your 3D-models from every device.

## NO INSTALLATION

Only requirement is a modern web browser

## FEATURES

3D visualization (zoom, pan, rotate)  
Meta information (properties)  
Model tree  
PMI and Model views  
Tools like Measurement and Clipping

# LiteBox3D Web viewer Details





# LiteBox3D Web viewer

Try Online

The screenshot displays the LiteBox3D web viewer interface. On the left is a tree view showing the hierarchy of the 3D model. The main area shows a 3D rendering of a yellow forklift. In the center, a properties panel is open, displaying various attributes and their values. On the right, there is a coordinate system and a tools panel with several interactive options.

**Tree View:**

- SCENE
  - FORKLIFT-TRUCK\_GC\_CAT DP70.JT
    - GC\_CAT DP70
      - GC\_BODY
      - GC\_FRONT WHEEL
      - GC\_FRONT WHEEL
      - GC\_FRONT WHEEL
      - GC\_FRONT WHEEL
      - GC\_REAR WHEEL HUB
      - GC\_REAR WHEEL HUB\_MIRROR1
      - GC\_STEARING ROD
      - GC\_LINK LEVER
      - GC\_LINK LEVER
      - GC\_REAR WHEEL
      - GC\_REAR WHEEL
      - GC\_MAST LS
      - GC\_BARREL
      - GC\_BARREL
      - GC\_ROD
      - GC\_ROD
      - GC\_MAST US
      - GC\_FORKS SUPPORT FRAME
      - GC\_FORK
      - GC\_FORK
      - GC\_SEAT
      - GC\_STEARING WHEEL
      - GC\_AIR FILTER
      - GC\_REAR LIGHT
      - GC\_REAR LIGHT

Name	Value
CAD_MASS_UNITS	kilograms
Creation return code	0
JT_PROP_MEASUREMENT_UNITS	millimeters
Product Definition	UNKNOWN
Source	GC_CAT DP70.CATProduct
Source system	CATIA V5 R24 SP0 HF0

- Screenshot
- Modelviews
- Clipping
- Explosion
- Options

# LiteBox3D

## Webviewer - Features

### Server options

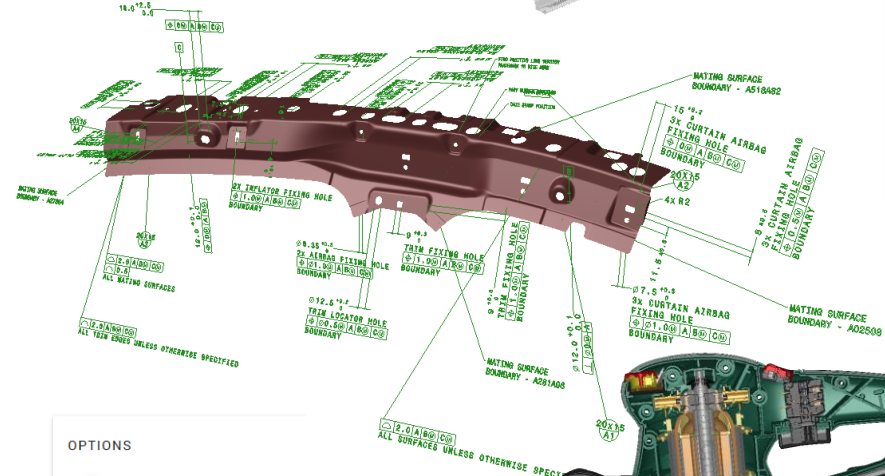
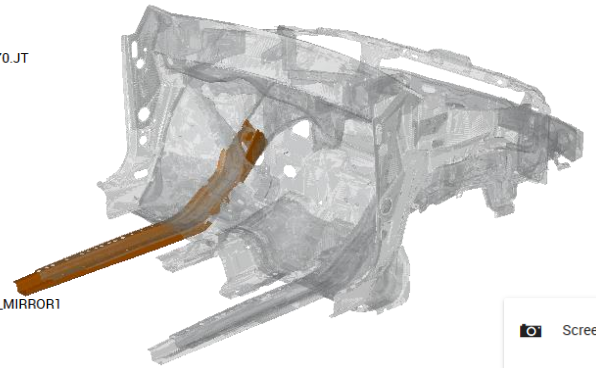
- Enable/Disable toolbar, tree, properties, tools
- Define PMI and highlight color

### Animation

### Client features

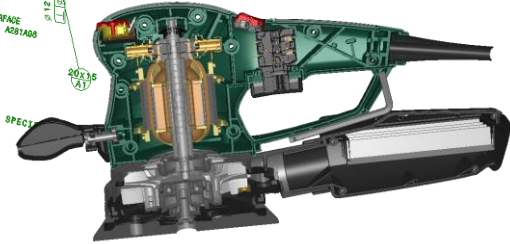
- 3D Navigation (Pan, Zoom, Rotate)
- Model Tree
- Show Bounding Box
- Show PMIs
- Highlighting mode
- PMI Model views
- Measurement
- Clipping / Intersection
- Explosion view
- Screenshots
- Display Redlining from LiteBox3D Desktop

- SCENE
  - FORKLIFT-TRUCK\_GC\_CAT DP70\_JT
    - GC\_CAT DP70
      - GC\_BODY
      - GC\_FRONT WHEEL
      - GC\_FRONT WHEEL
      - GC\_FRONT WHEEL
      - GC\_FRONT WHEEL
      - GC\_REAR WHEEL HUB
      - GC\_REAR WHEEL HUB\_MIRROR1
      - GC\_STEERING ROD



- OPTIONS
  - PMI
  - Ghost Selection
  - Bounding Box
  - Orthographic projection

- Screenshots
  - Modelviews
  - Clipping
  - Explosion
  - Options
- TOOLS <



## LiteBox3D Web viewer

### *System recommendations (server)*

#### File Support:

- JT file format versions 8.0 to 10.2 (ISO/PAS 14306:2011 and ISO/IS 14306).
- PLMXML assemblies
- STEP AP242 XML assemblies
- OBJ
- VRML

#### Hardware (minimum):

- Memory: 16GB
- CPU: 4 cores
- Disk space: required for cache, approx. 10% of JT model size
- No graphic card required

#### Software:

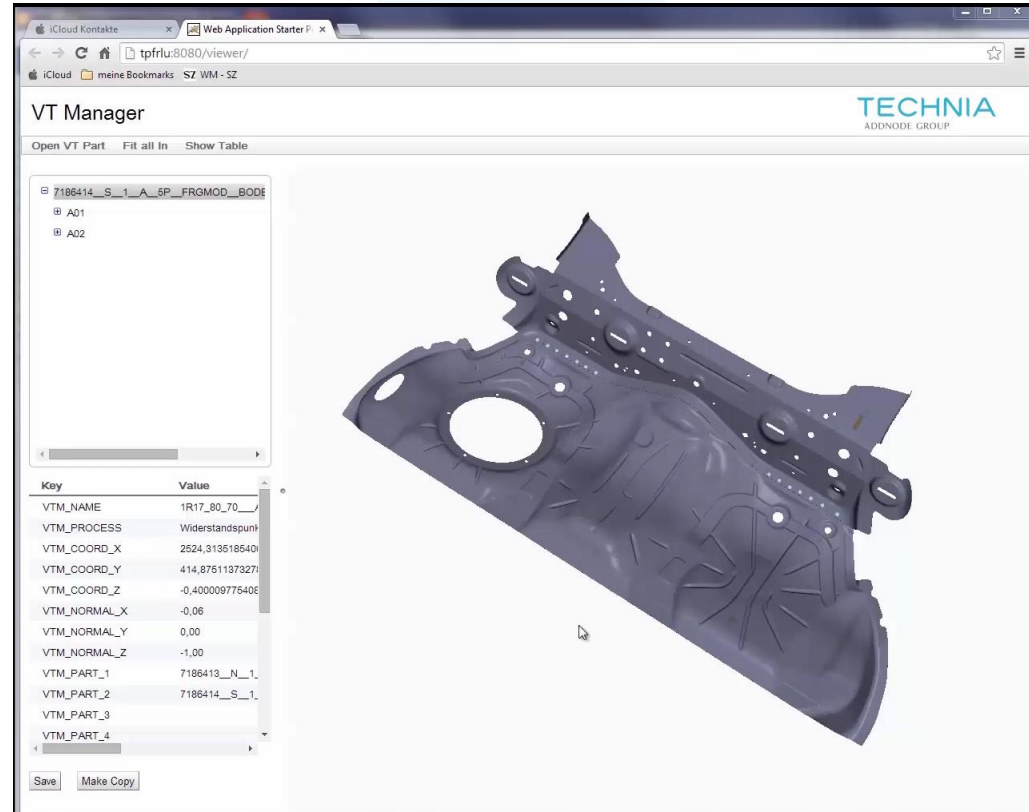
- Windows (upon demand Linux)
- Node.js web server (delivered with LiteBox3D)

## LiteBox3D Sample Integrations



## Welding Application

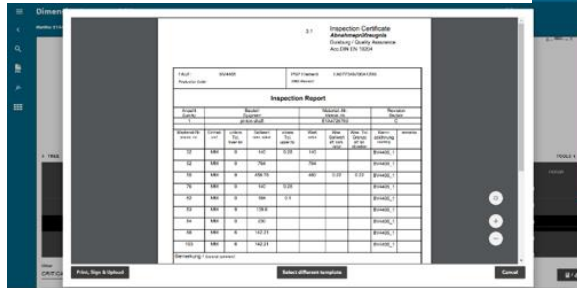
- JT web viewing combined with database containing welding point information



# Inspection reports

Web application for inspection reports

- Login credentials authenticated in Teamcenter
- JT data located in Teamcenter
- Inspection dimensions in Quality-DB



The screenshot displays a CAD software interface (likely CATIA) showing a 3D model of a pinion shaft. The model is annotated with various dimensions and features, including a diameter of 459.78 h9, a length of 369.5, and a tolerance of 0.07. The text 'Mitte Verzahnung CENTRE TOOTHING' is visible on the model. Below the model, a 'TREE' panel lists inspection characteristics with a table of data.

Class	Characteristic Number	QS Num	Measuring Size	Unit	Tolerance Class	Tolerance Value	Lower Tolerance	Nominal Value	Upper Tolerance	Value	Dif. Norm Value	Dif. Tol. Deviation	Part Marking	Remark
<input type="checkbox"/>	CRITICAL	32	Q14	Diameter	MM	0	-0.268	140	0.28	140	0		BV4405_1	
<input type="checkbox"/>	CRITICAL	52	Q21	Dimension	MM	0	-0.05	764	0	764	0		BV4405_1	
<input type="checkbox"/>	CRITICAL	55	Q07	Diameter	MM	h	9	-0.155	459.78	0	460	0.22	0.22	BV4405_1

# BOM Manager

- 3D Viewing integrated in BOM manager

**Options de filtrage**

Rep. Fonctionnel

Reference

Afficher les lignes ou je suis en action

Afficher les lignes sans configuration

Modules

Perimetre

Moteurs Baseline

Moteurs Std 1

Moteurs Std 1 +

**Bienvenue dans la base collaborative**

info outil

Suite à la demande du chef de marque et de la supply chain, il est nécessaire de renseigner la colonne maturité pour chaque ligne de nomenclature mise sur cette maturité représente la confiance du module manager à amener sa pièce à la série, mais également la maturité de la définition de la pièce

La maturité ne peut prendre que 3 valeurs distinctes

- 1 - Pièce dont on est sûr qu'elle sera présente en série
- 2 - Pièce dont la présence sur la série est soumise à la réussite d'un essai
- 3 - Pièce qui ne sera pas présente pour la série (solution temporaire) ou pièce dont la définition technique est inexactement validée.

Pour commencer, spécifier un critère de filtrage (Réfère, référence etc ...) et cliquez sur le bouton de recherche (P)

id	repere	module	perimetre	part_number	quantite	description	alt	nb	21 (10)	21-1 (1)	100	21-1-1 AS BULT	105	21-1-3 AS BULT	106	21-1-2 (20)	21 (1999)
4113	T2000T	S2L	compressor HP	387-139-402-0402	1	VIROULE, CONTOUR DE CHAMBRE											
27696	T2000T	S2L	compressor HP	387-139-402-0101	1	VIROULE, CONTOUR CHAMBRE											
1222	T2000T	S2L	compressor HP	387-014-802-0101	1	VIROULE, INTERIEUR 2 COMP HP											
16484	T2000T	S2L	compressor HP	387-014-802-0101	1	VIROULE, INTERIEUR 4 COMP HP											
14044	T2000T	S2L	compressor HP	387-014-011-0403	1	VIROULE, INTERIEUR 4 COMP HP											
27114	T2000T	S2L	compressor HP	387-014-011-0708	1	VIROULE, INTERIEUR 4 COMP HP											
2089	T2000T	S2L	compressor HP	388-014-102-0101	1	SECTEUR, ANNEAU RECH 4 COMP HP											
24789	T2000T	S2L	compressor HP	388-014-102-0101	1	SECTEUR, RECH 4 COMP HP	ALT										
24793	T2000T	S2L	compressor HP	388-103-802-0101	1	SECTEUR, RECH 4 COMP HP	ALT										
1038	T2000T	S2L	compressor HP	388-044-802-0101	1	VEROUILL, COMP HP											
5392	T2000T	S2L	compressor HP	388-013-902-0101	1	VIROULE, DAM ETAGE 4 COMP HP											
1665	T2000T	S2L	compressor HP	388-013-902-0401	1	VIROULE, DAM ETAGE 4 COMP HP											
27168	T2000T	S2L	compressor HP	388-013-902-0101	1	VIROULE, DAM ETAGE 4 COMP HP											
24790	T2000T	S2L	compressor HP	388-004-402-0101	1	DAM, ETAGE 4 COMP HP											
27167	T2000T	S2L	compressor HP	388-004-402-0101	1	DAM, ETAGE 4 COMP HP											
24787	T2000T	S2L	compressor HP	388-004-302-0101	1	DAM, ETAGE 3 COMP HP											
27169	T2000T	S2L	compressor HP	388-004-302-0101	1	DAM, ETAGE 3 COMP HP											
24796	T2000T	S2L	compressor HP	388-004-202-0101	1	DAM, ETAGE 2 COMP HP											
27170	T2000T	S2L	compressor HP	388-004-202-0101	1	DAM, ETAGE 2 COMP HP											
1893	T2000T	S2L	compressor HP	387-027-202-0101	2	COIFFRE, PLAQUE, PONTET RECH											
20492	T2000T	S2L	compressor HP	387-004-104-0101	16	LEVERET, DE COMMANDE RECH											
1050	T2000T	S2L	compressor HP	387-014-202-0101	30	DOUILLE, EXTERIEURE RECH	ALT										
1051	T2000T	S2L	compressor HP	387-014-202-0101	30	DOUILLE, EXTERIEURE RECH	ALT										
1897	T2000T	S2L	compressor HP	388-014-301-0101	2	ANNEAU, DE COMMANDE RECH											
24310	T2000T	S2L	compressor HP	388-014-301-0101	2	ANNEAU, DE COMMANDE RECH											
1898	T2000T	S2L	compressor HP	383-046-10	19	ECROU											
1899	T2000T	S2L	compressor HP	383-027-401-0101	10	VIS, BRUSLE, PATIN											
1610	T2000T	S2L	compressor HP	383-003-100-0101	10	PATIN, EQUILIBRE											
1611	T2000T	S2L	compressor HP	383-046-10	14	ECROU											
1612	T2000T	S2L	compressor HP	383-003-100-0101	10	PATIN, EQUILIBRE											
1613	T2000T	S2L	compressor HP	383-003-100-0101	14	PATIN, EQUILIBRE											
1614	T2000T	S2L	compressor HP	383-141-303-0101	38	DOUILLE, ANNEAU DE CDE											
24683	T2000T	S2L	compressor HP	388-014-102-0101	10	ALUME RECH, COMPRESSEUR HP											
27494	T2000T	S2L	compressor HP	388-014-102-0101	31	ALUME RECH, COMPRESSEUR HP											
26112	T2000T	S2L	compressor HP	388-014-102-0003	2	ALUME RECH, COMPRESSEUR HP											
27493	T2000T	S2L	compressor HP	388-014-102-0401	4	ALUME RECH, COMPRESSEUR HP											
26019	T2000T	S2L	compressor HP	388-014-102-0402	1	ALUME RECH, COMPRESSEUR HP											
1616	T2000T	S2L	compressor HP	387-011-451-0101	1	ANNEAU, INTERIEURE RECH											

# 3DEXperience Integration

LiteBox3D Integration in  
3DEXperience

The screenshot displays the 3DEXPERIENCE ENOVIA Collection Management interface. The main content area shows the details for a 'Lego' Seasonal Plan. The interface includes a top navigation bar, a search bar, and a left-hand navigation menu. The main content area is divided into tabs: 'Plan Details', 'Financial Summary', 'Financials', and 'Placeholders'. The 'Plan Details' tab is active, showing a table of plan information.

Plan Details		Financial Summary	Financials	Placeholders
Type	Seasonal Plan	Name	Lego	
Description	Lego	Owner	Innovation Forum	
Owner	Innovation Forum	Visibility	Members	
Season	Spring Summer 2018	Apparel Programs		
Subsidiary	Blue Sky	Business Unit		
Last Modified	Oct 2, 2018	Sort Order	0.0	
Schedule From	Project Start Date	Actual Start Date		
Estimated Start Date	Oct 2, 2018	Actual Finish Date		
Estimated Finish Date	Oct 2, 2018	Actual Duration	0.0	
Estimated Duration	1.0 Days	Plan Currency	Dollar	Default Forecast Level
OTB	0.0	Revenue	0	Margin %
Landed Cost	0	Quantity	0	Retail Price
Markup %	0	Product Type	Toys	
Gender Class	Boys			
<b>Plan By</b>				
Level 1	Level 1 Values			
Level 2	Level 2 Values			
Level 3	Level 3 Values			
Level 4	Level 4 Values			
<b>Plan Sequence</b>				
Plan Sequence	Gender Class,Product Type			

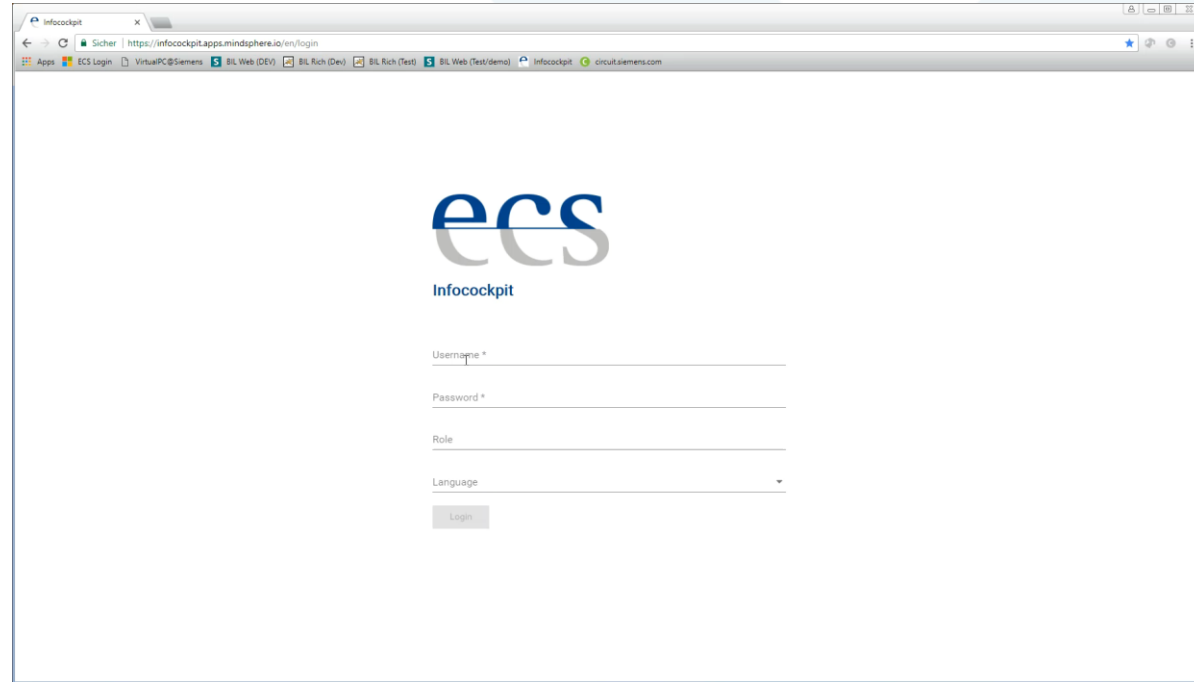
The left-hand navigation menu includes the following items: Lego, Lego Development Plan, Seasonal Libraries, Line Assortment, Line Assortment TVC, Product Sets, Sample Requests, Images, Line Catalog, Deliveries, Material Usage, Reports, Schedule, Details, Seasonal Plan Summary, Product Families, Product Briefs, Business Goals, Bookmarks, Meetings, Efforts, Folders, Members, Issues, and Risks.



## PDM-ERP Frontend

Seamless LiteBox3D Web viewer  
integration in HTML5 application

- Login credentials authenticated in Teamcenter
- JT data located in TC
- Meta data in SAP



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EXPERIENCE MATTERS

