

FabSuite TME (Tekla Model Exchange) v1.0

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General Description

The FabSuite/Tekla Model Exchange application (FabSuite TME) allows for seamless communication between FabSuite and Tekla Structures. FabSuite TME integrates with Tekla Structures allowing you to:

1. Export the Tekla Structures model into a compressed FabSuite XML file. This single file contains the Drawings, Revisions, Bill of Materials, User-Defined Attributes, CNC Files, and Drawing Files.
2. Import a FabSuite XML file into Tekla Structures to update the model with the current status information and colorize the model based on those statuses.

Installation

Before installing FabSuite TME you must first have Tekla Structures installed. To install FabSuite TME:

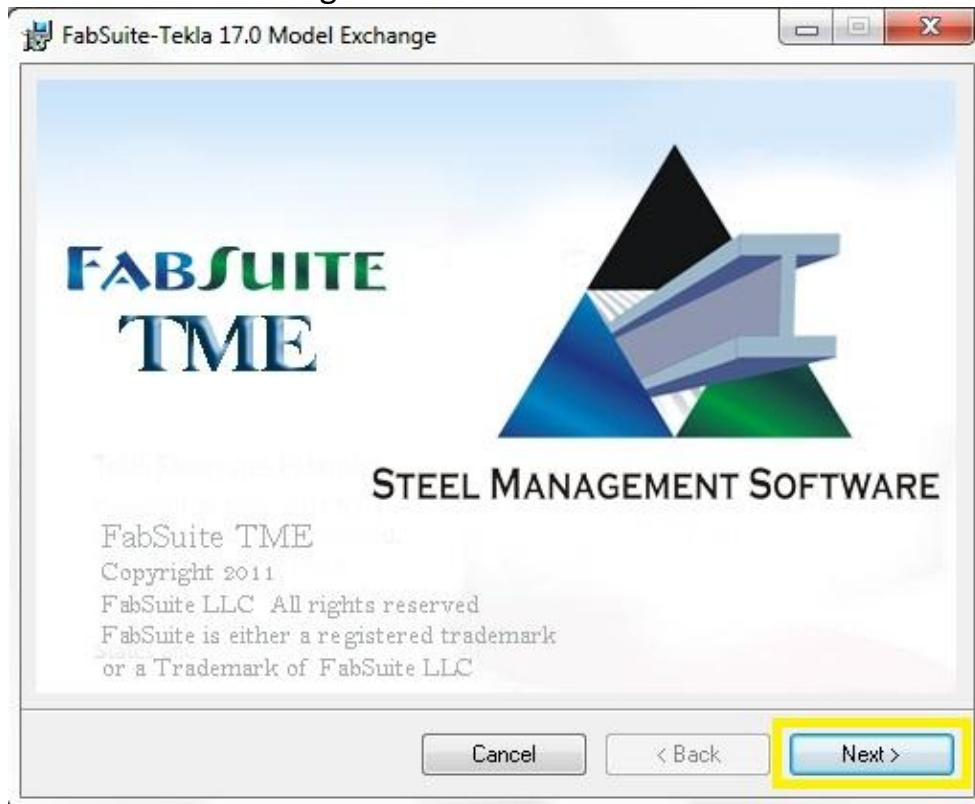
Click on the link below and follow the instructions on the web page to download the correct version of the installation package:

<https://www.fabsuite.com/en/fabsuite-tme>

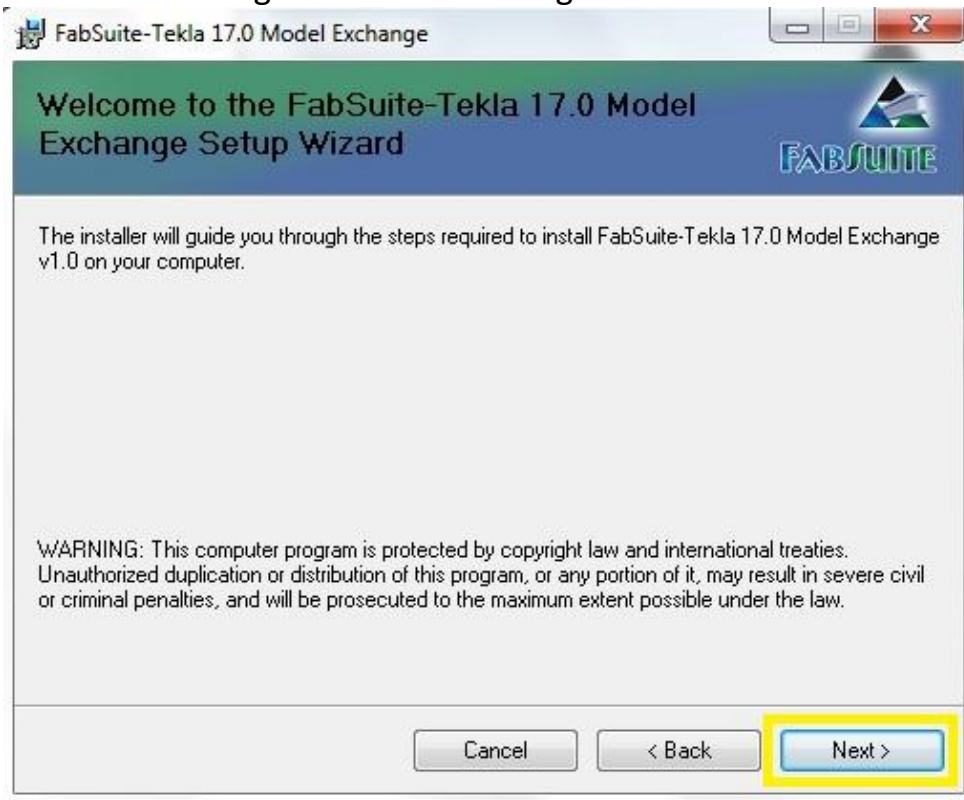
After the download has completed, double-click on the installation file.



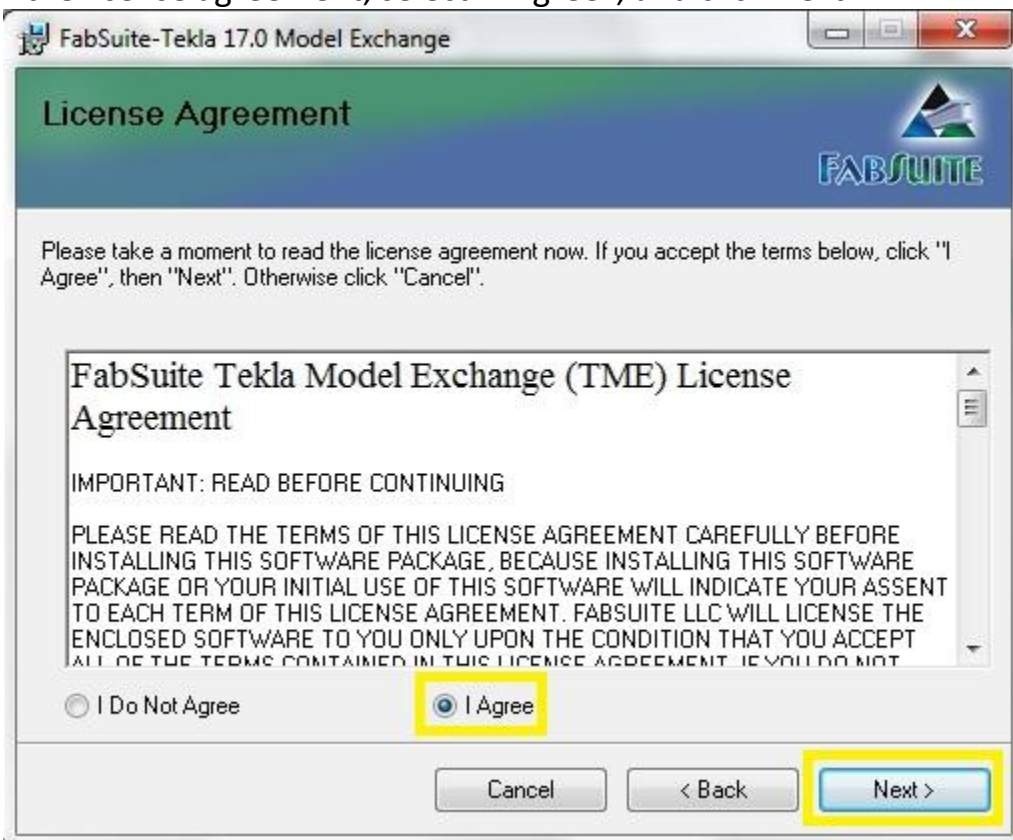
Click the Next button to begin the installation.



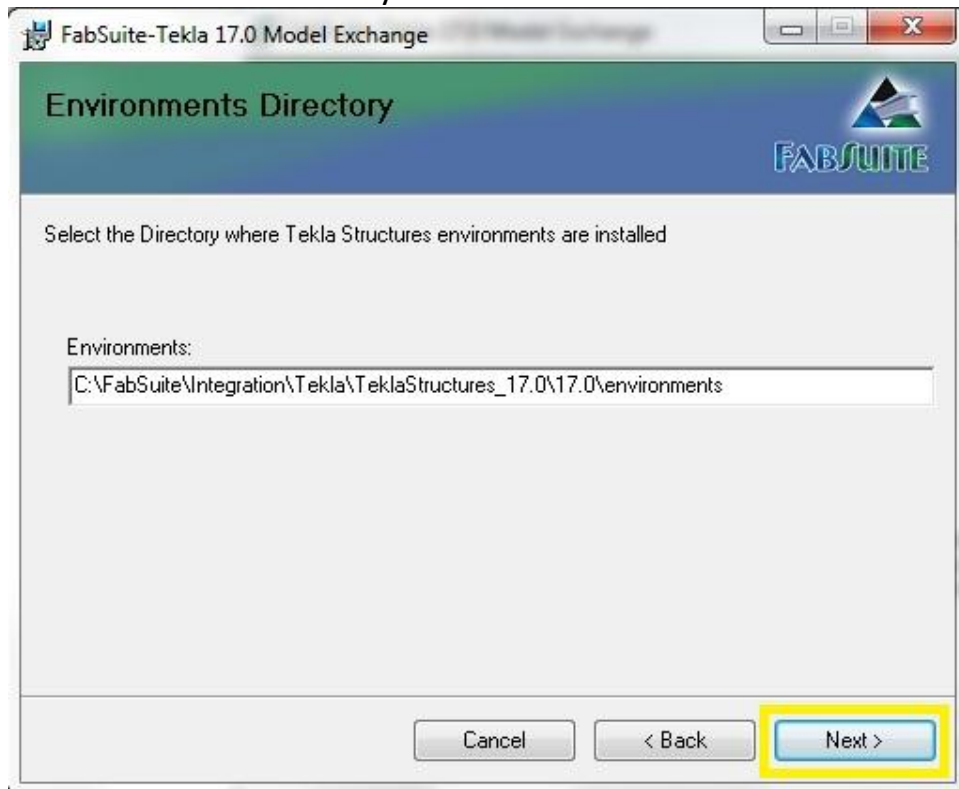
Click the Next button again on the following screen.



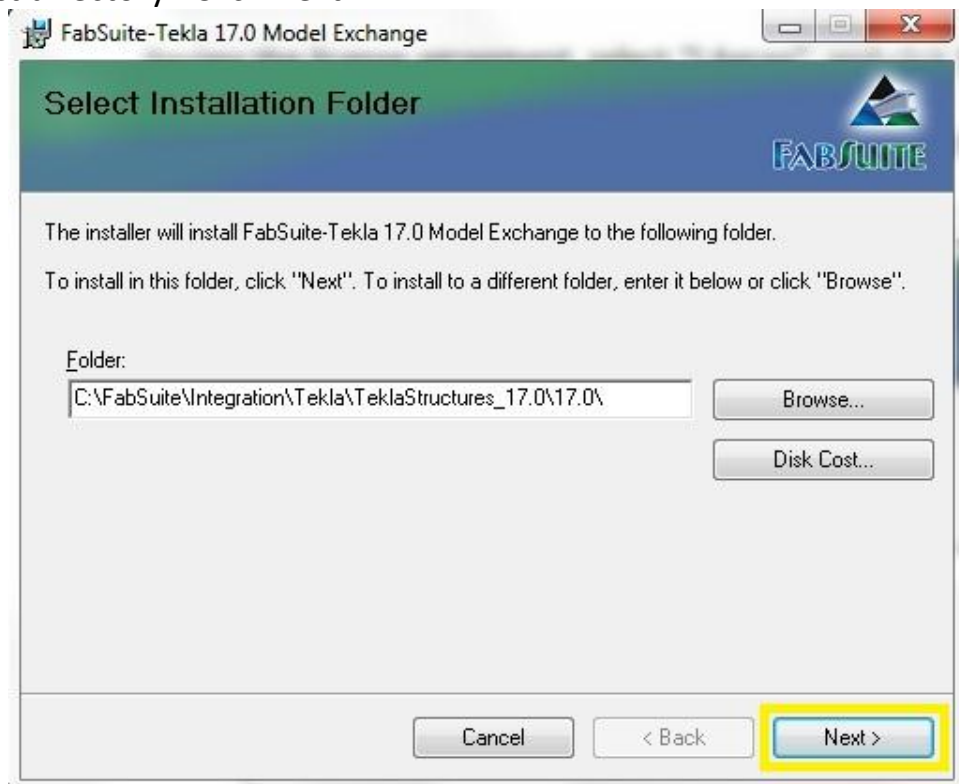
Review the license agreement, select "I Agree", and click Next.



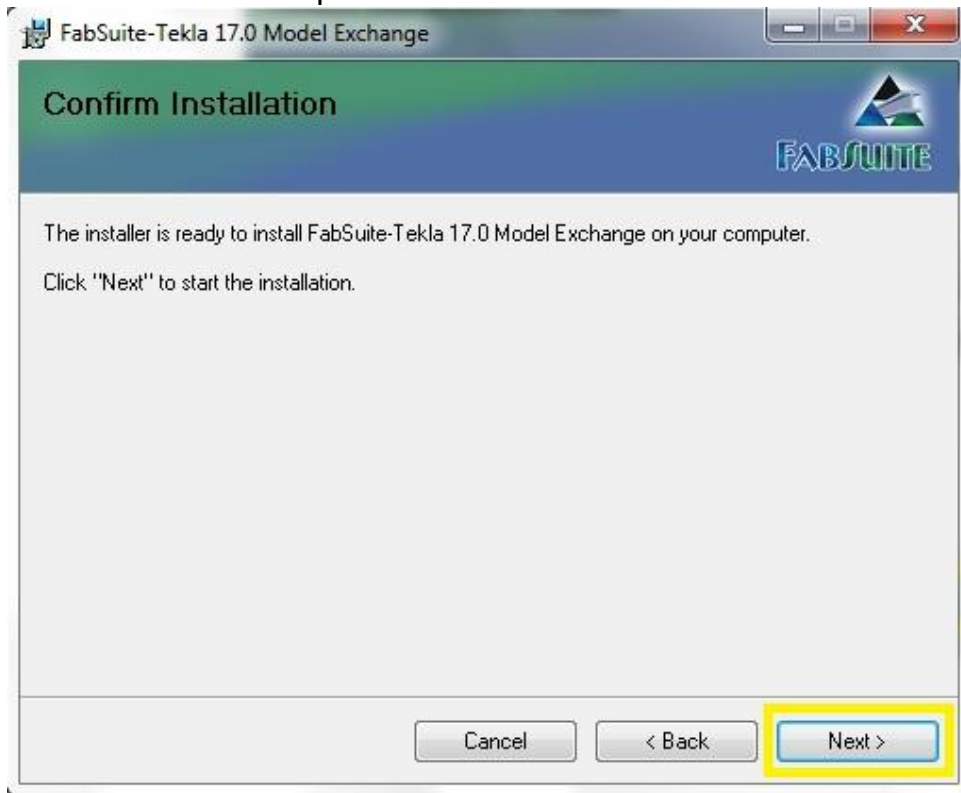
If your Tekla Structures environments are installed in a different location than is shown, then enter the correct directory. Click Next.



If Tekla Structures is installed in a different location than is shown, then enter the correct directory. Click Next.

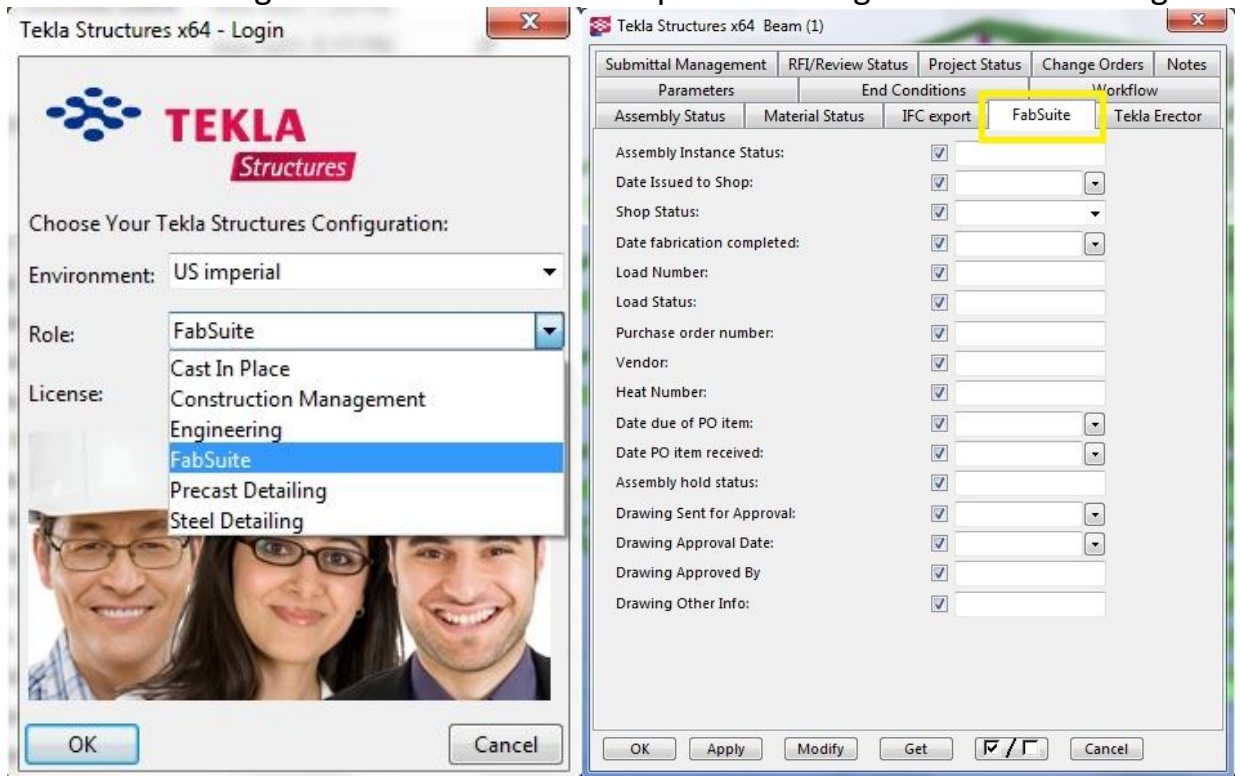



Click Next one last time to perform the installation.

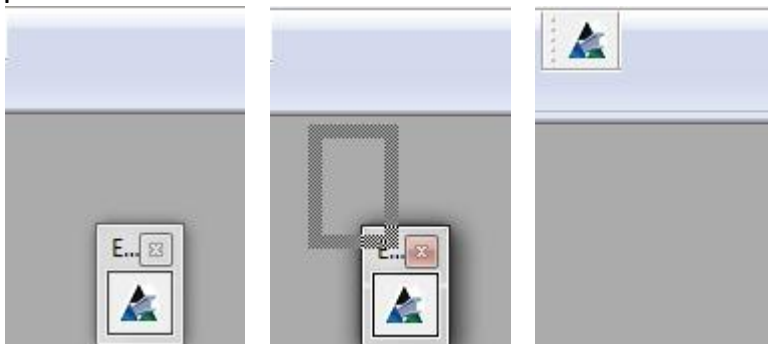


When the installation completes, open Tekla Structures.

At the login screen, select the FabSuite Role. FabSuite TME will work with other roles. However, using the FabSuite Role will add a 'FabSuite' tab to the User-Defined Attributes screen to organize the fields that are updated during the model exchange.



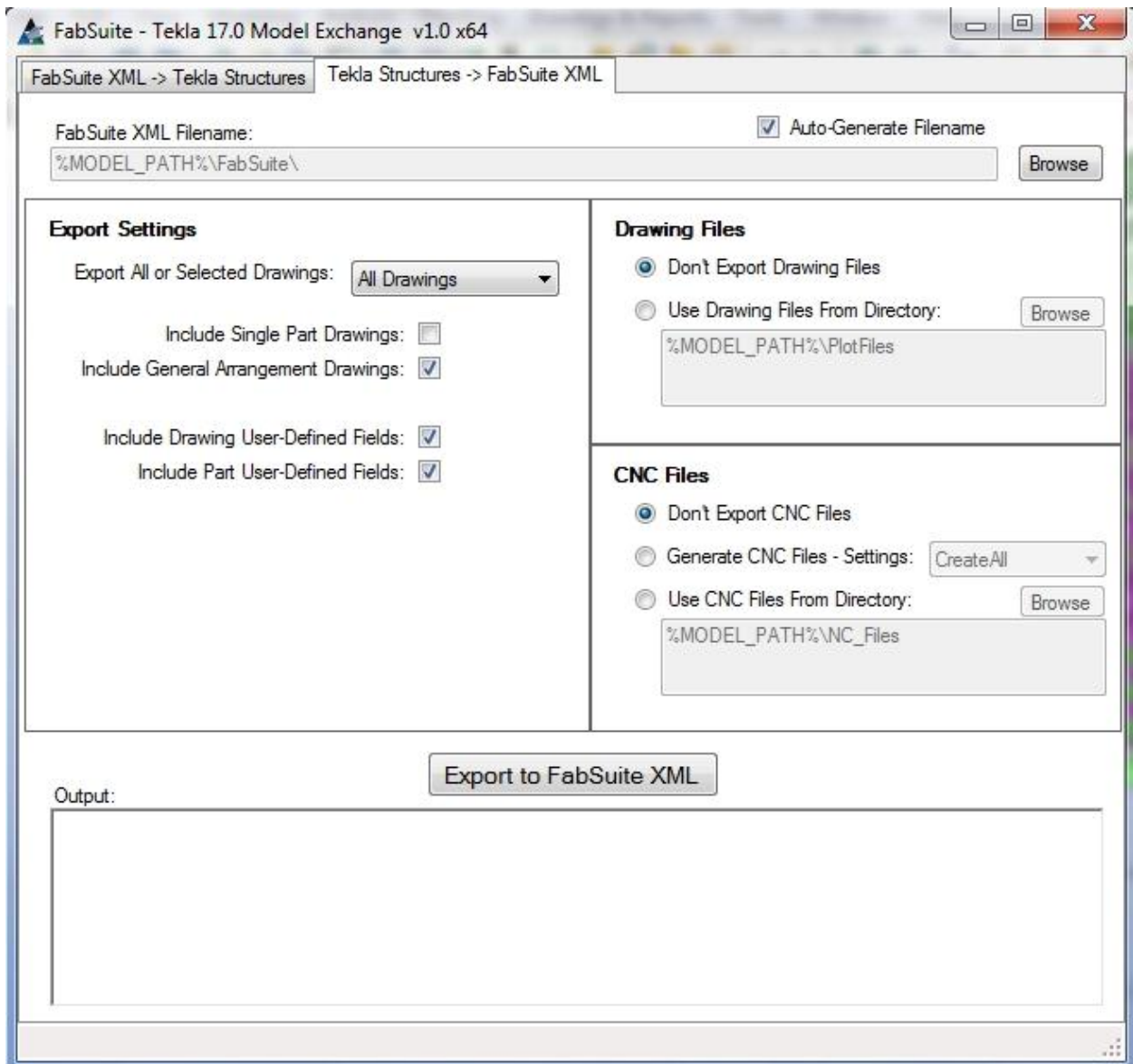
A small window will appear in the Tekla Structures background with the FabSuite logo (). Click and hold on the bar just above the logo (to the left of the X) and drag the logo up to the title bar.



You can now click the FabSuite logo and launch the FabSuite TME application.

Export Tekla Structures model to FabSuite XML

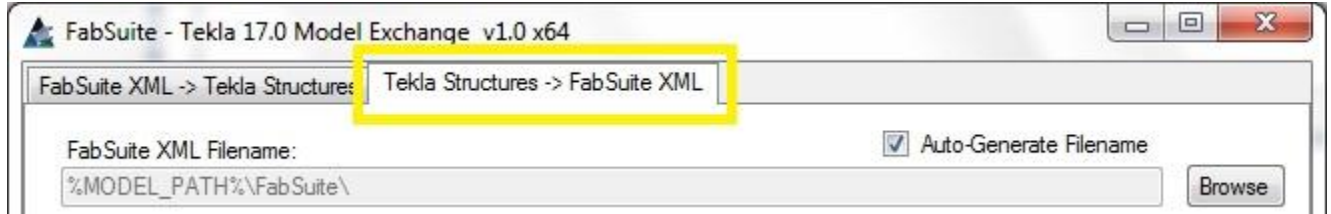
Click the FabSuite icon on the Tekla Structures toolbar, this will launch FabSuite TME.



There are two tabs across the top of the FabSuite TME application:

FabSuite XML -> Tekla Structures: Importing from FabSuite XML into Tekla Structures.
Tekla Structures -> FabSuite XML: Exporting from Tekla Structures into FabSuite XML.

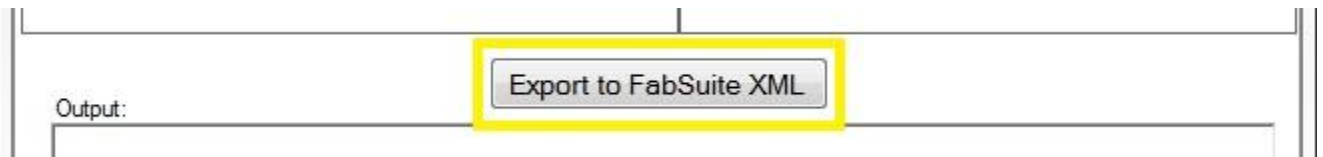
If it is not already selected, click on the second tab – **Tekla Structures -> FabSuite XML**.



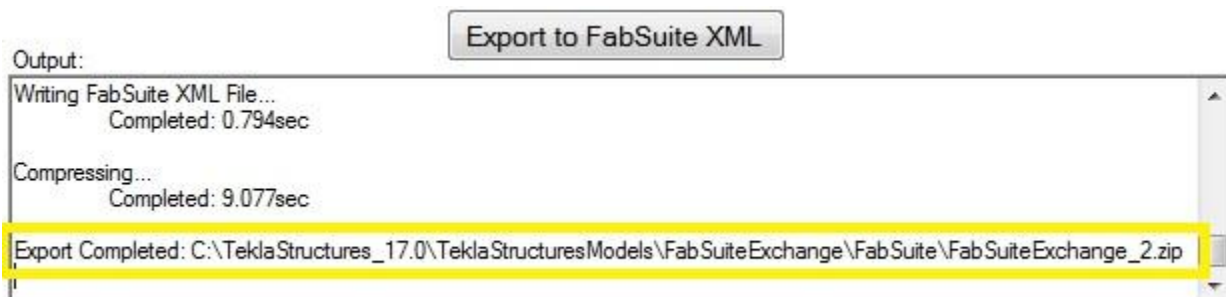
The **Tekla Structures -> FabSuite XML** tab has four sections where you can select the export settings:

- [FabSuite XML Filename](#)
- [Export Settings](#)
- [Drawing Files](#)
- [CNC Files](#)

Once you have established the desired export settings, click the Export to FabSuite XML button. This will begin the export and save the current settings. The next time you launch FabSuite TME the same settings will be populated automatically.



As the export proceeds, the progress as well as any warning or error messages will be displayed in the Output area at the bottom of the screen. When the import completes, the full path of the export file will be shown.



FabSuite XML Filename

The top section determines where the export file will be saved. By default, the Auto-Generate Filename option will be checked.



The screenshot shows a dialog box titled "FabSuite XML Filename:". On the right side, there is a checked checkbox labeled "Auto-Generate Filename". Below this, there is a text input field containing the text "%MODEL_PATH%\FabSuite\". To the right of the input field is a "Browse" button.

When the Auto-Generate Filename option is checked, FabSuite TME will automatically save the export file in a FabSuite directory under the model path. The file will be named with the Project Number, followed by an underscore, followed by a number that will increment for each export.

For example, the model that is currently open has a Project Number of FabSuiteExchange. When the export is performed it will be saved to:

TeklaStructuresModels\FabSuiteExchange\FabSuite\FabSuiteExchange_1.zip

The next export will have the same path except the number will increment:

TeklaStructuresModels\FabSuiteExchange\FabSuite\FabSuiteExchange_2.zip

TeklaStructuresModels\FabSuiteExchange\FabSuite\FabSuiteExchange_3.zip

...

Since FabSuite TME is generating the filename automatically, the Filename input as well as the Browse button are disabled.



The screenshot shows the same dialog box as above, but the "Auto-Generate Filename" checkbox is now unchecked. The text input field now contains the full path and filename: "%MODEL_PATH%\FabSuite\FabSuiteExchange_1.zip". The "Browse" button is now highlighted with a yellow box, indicating it is enabled.

When the Auto-Generate Filename option is not checked, the Filename input and Browse button are enabled. You can enter or browse to any directory and filename that you wish.

Export Settings

The section on the left has options to determine the data that will be exported from the model.

Export Settings

Export All or Selected Drawings:

Include Single Part Drawings:

Include General Arrangement Drawings:

Include Drawing User-Defined Fields:

Include Part User-Defined Fields:

Export All or Selected Drawings:
All Drawings
Selected Drawings

Export All or Selected Drawings

All Drawings – Export all drawings from the model.

Selected Drawings – Export only the drawings currently selected in the Drawing List.

FabSuite TME will check each drawing included in the export to ensure that it is Up to Date. If any drawings are not Up to Date, you will receive a warning message and an option to continue with the export.

Include Single Part Drawings

Include the single part drawings information and files (if drawing files are included in the export).

Include General Arrangement Drawings

Include the general arrangement drawing information and files (if drawing files are included in the export).

Include Drawing User-Defined Fields

Include User-Defined fields for the drawings. By default, these fields include: Drawn By, Checked By, and Checked Date. For information on how to customize the User-Defined fields that are included, see [Customizing User-Defined Export Fields](#).

Include Part User-Defined Fields

Include User-Defined fields for the parts. By default, these fields include: User Field 1, User Field 2, User Field 3, User Field 4, and Comment. For information on how to customize the User-Defined fields that are included, see [Customizing User-Defined Export Fields](#).

Drawing Files

The section on the top-right has options for including the drawing files with the export.



Don't Export Drawing Files

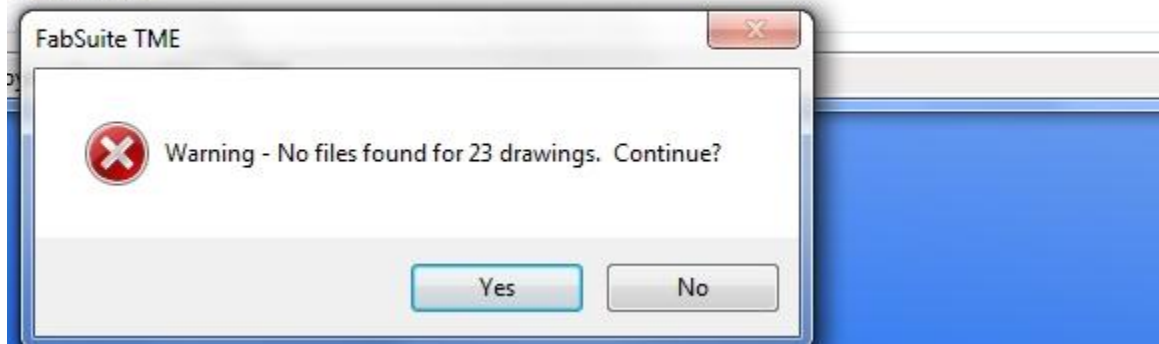
Drawing files will not be included in the export.

Use Drawing Files From Directory

Drawing files from the directory listed below will be included in the export. The filenames must match the drawing #, excluding the file extension. For example, drawing # 200 -> 200.pdf

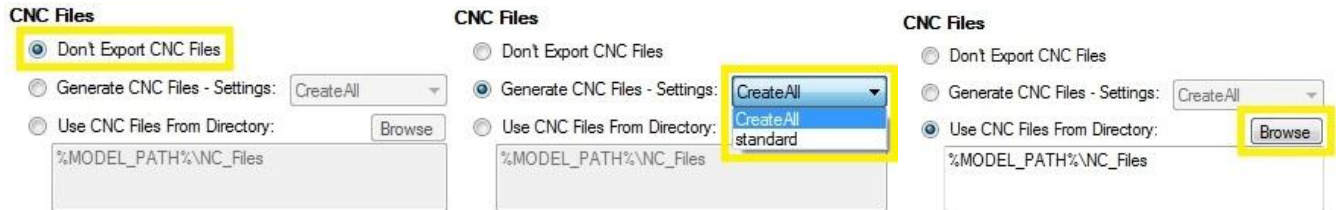
During export you will receive a warning if files are not found for all drawings included in the export, along with an option to continue.

Warning - No files found for 23 drawings:
100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 201, 203, 204, 205, 206, 207, 208, 209,
211, 212, 213



CNC Files

The section on the bottom-right has options for including CNC files with the export.



Don't Export CNC Files

CNC files will not be included in the export.

Generate CNC Files

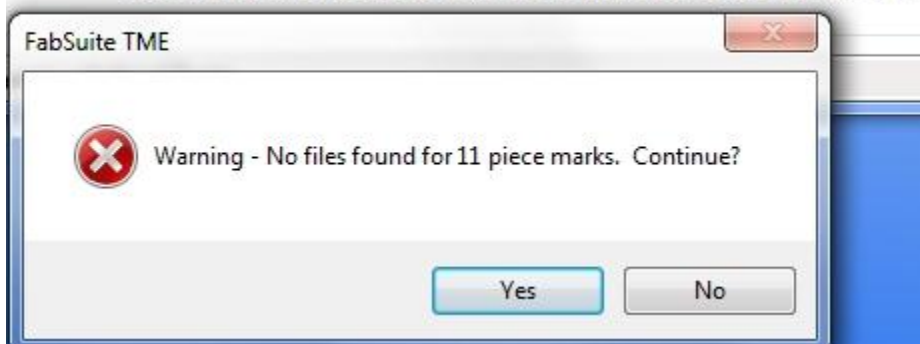
CNC files will be generated from the current model. Select the Tekla Structures NC export setting to use.

Use CNC Files From Directory

CNC files from the directory listed below will be included in the export. The filenames must match the piece mark, excluding the file extension. For example, piece mark w104 -> w104.nc1

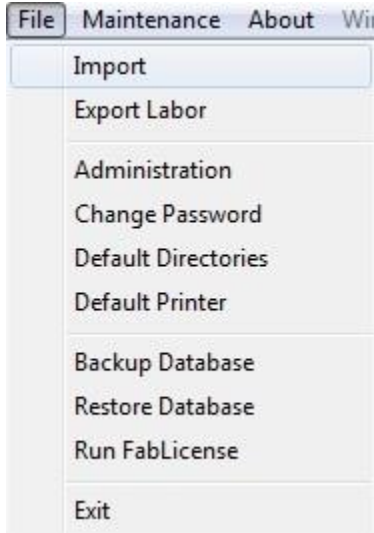
During export you will receive a warning if files are not found for all piece marks included in the export, along with an option to continue.

Warning - No files found for 11 piece marks:
202B2, 206B1, 206B2, 206B6, 207B1, 207B2, 211B2, 212B1, 212B3, 212B4, 213B3

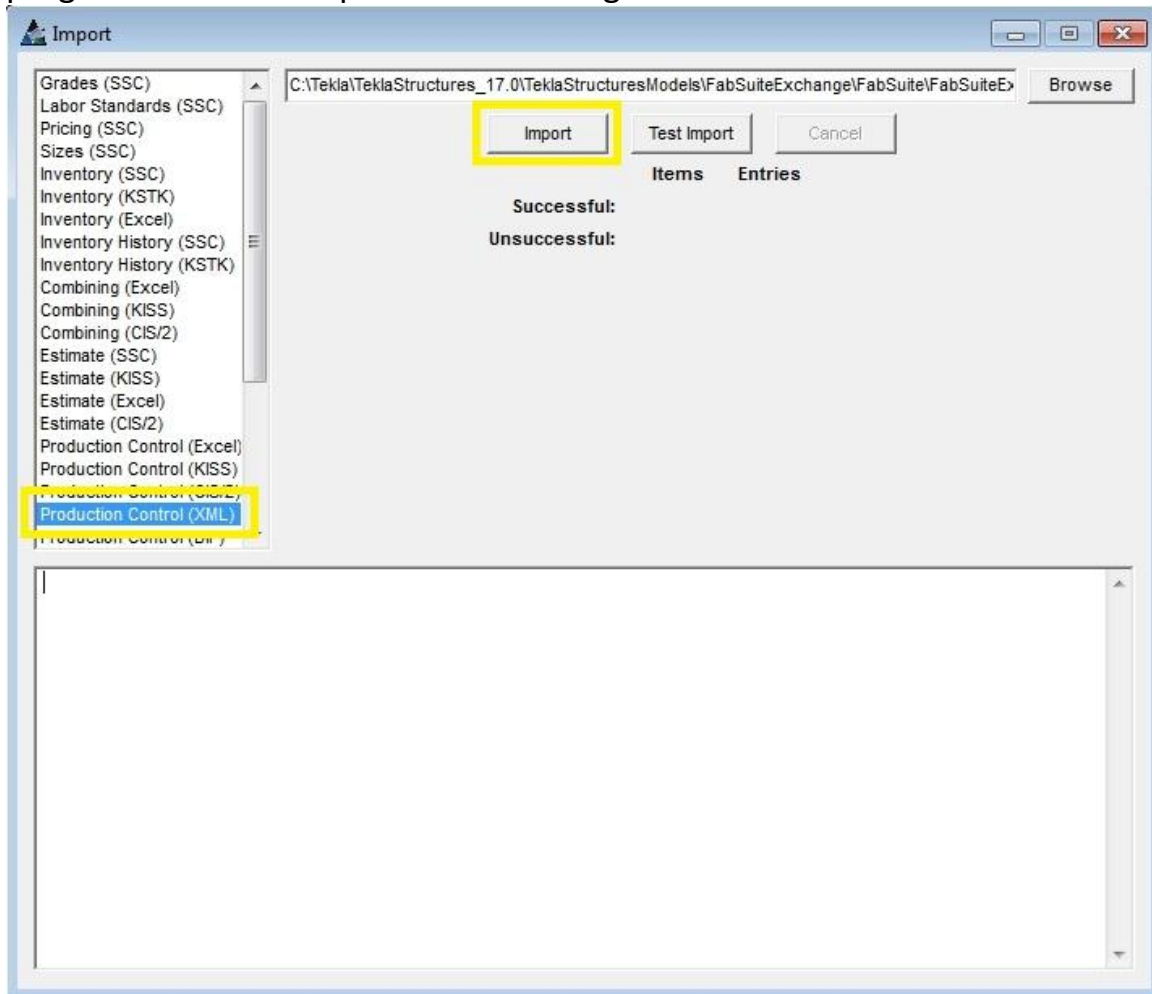


FabSuite XML Import

To import the XML file into FabSuite, first open the FabSuite application and log in. Select the menu option File -> Import.

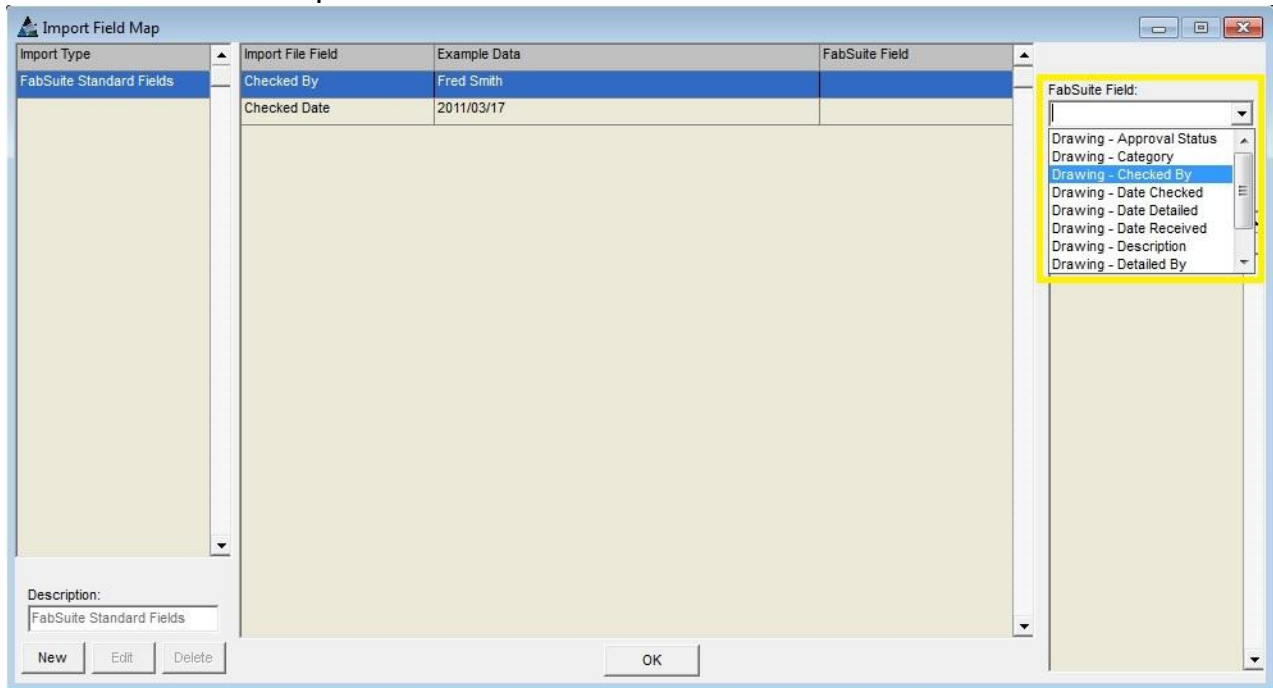


On the Import screen, select the Production Control (XML) import option. On the top-right of the screen browse to the file that was exported using the FabSuite TME program. Click the Import button to begin.

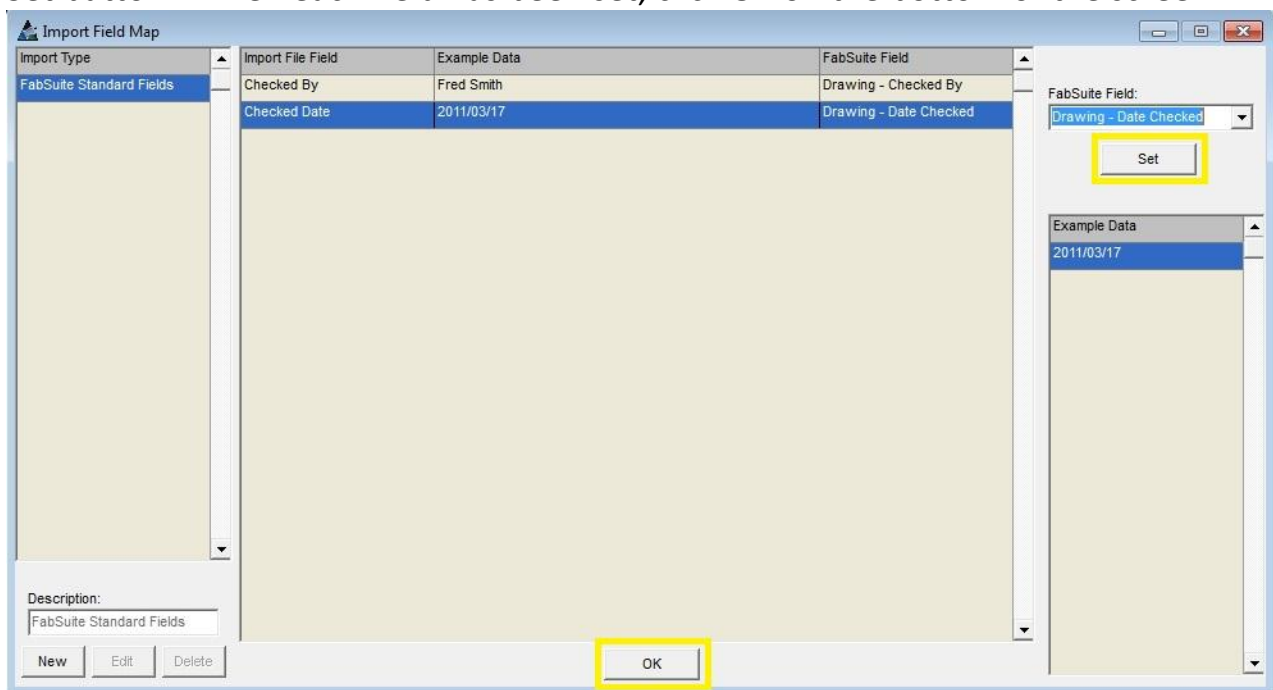


If user-defined fields have been included in the file, then a screen will appear to select the FabSuite field to map each of them to. For more information on including user-defined fields in the export file, see [Customizing User-Defined Export Fields](#).

The Import Field Map screen will open first for the drawing user-defined fields. The display in the middle of the screen shows the user-defined fields in the current file along with example data in that field. On the right, there is a drop-down box to select the FabSuite Field to map to.



Click on a field in the list, select the appropriate FabSuite field on the right, and click the Set button. When each field has been set, click OK on the bottom of the screen.



User-Defined fields with no data (all blank values) are ignored by the import and will not appear on the Import Field Map screen.

FabSuite has the ability to save the field mappings as a new Import Type. During an import the list of user-defined fields is compared against a previously saved Import Type. If a match is found you can proceed using that Import Type without re-entering the field mappings.

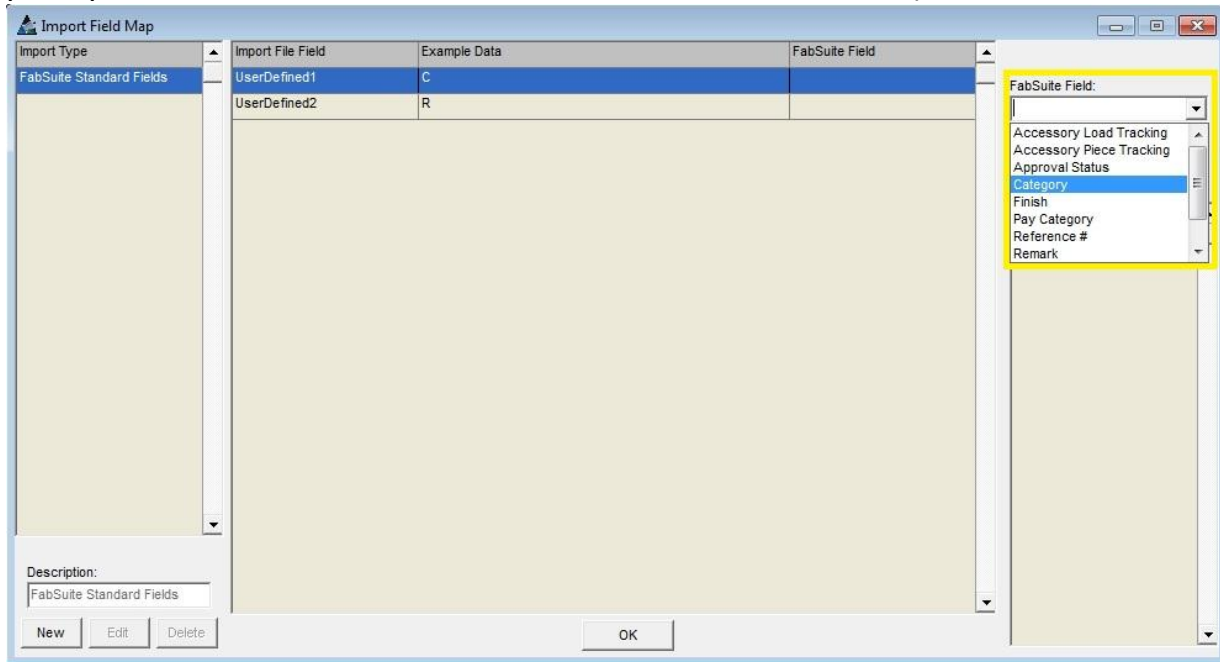
If you wish to save these settings for future use, click Yes. When prompted enter a name to describe the Import Type.



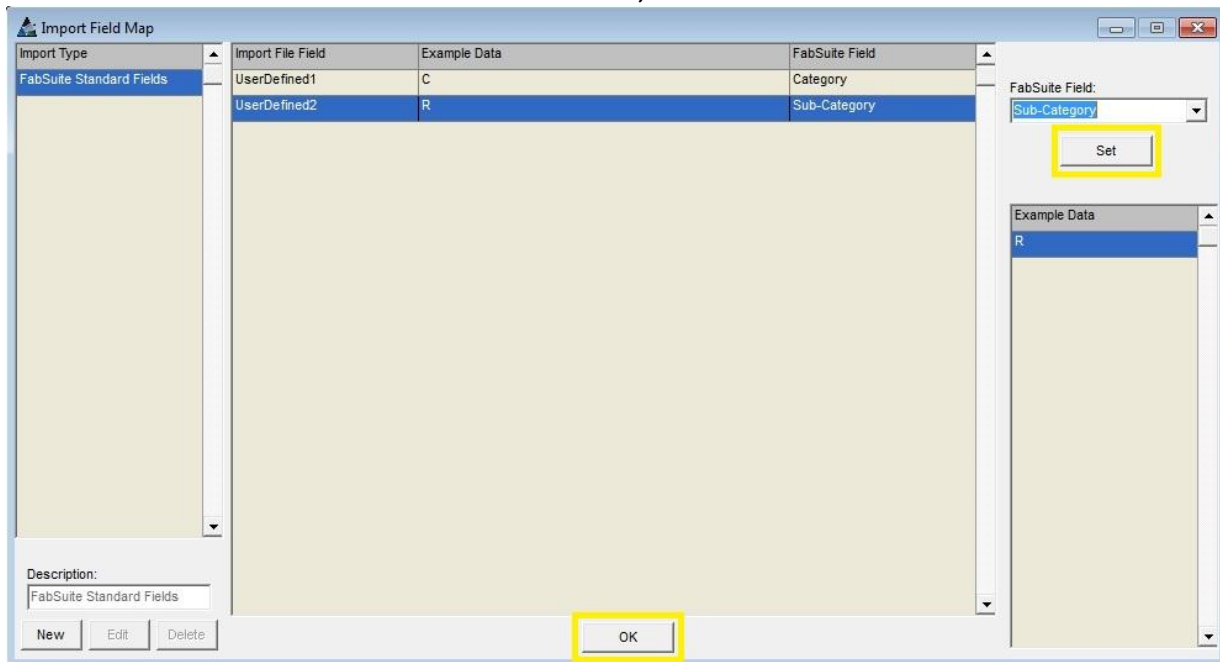
If another file with the same user-defined fields is imported, the match will be found. Click Yes to proceed using that saved Import Type.



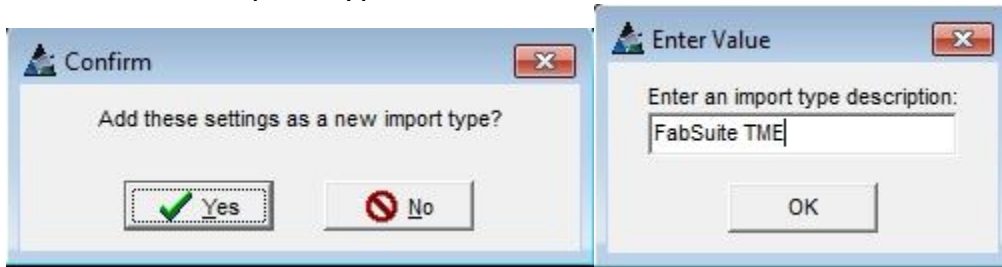
After the Drawing User-Defined fields are mapped to FabSuite fields, you will be prompted to do the same with the Part User-Defined fields (if included in the file).



Click on a field in the list, select the appropriate FabSuite field on the right, and click the Set button. When each field has been set, click OK on the bottom of the screen.



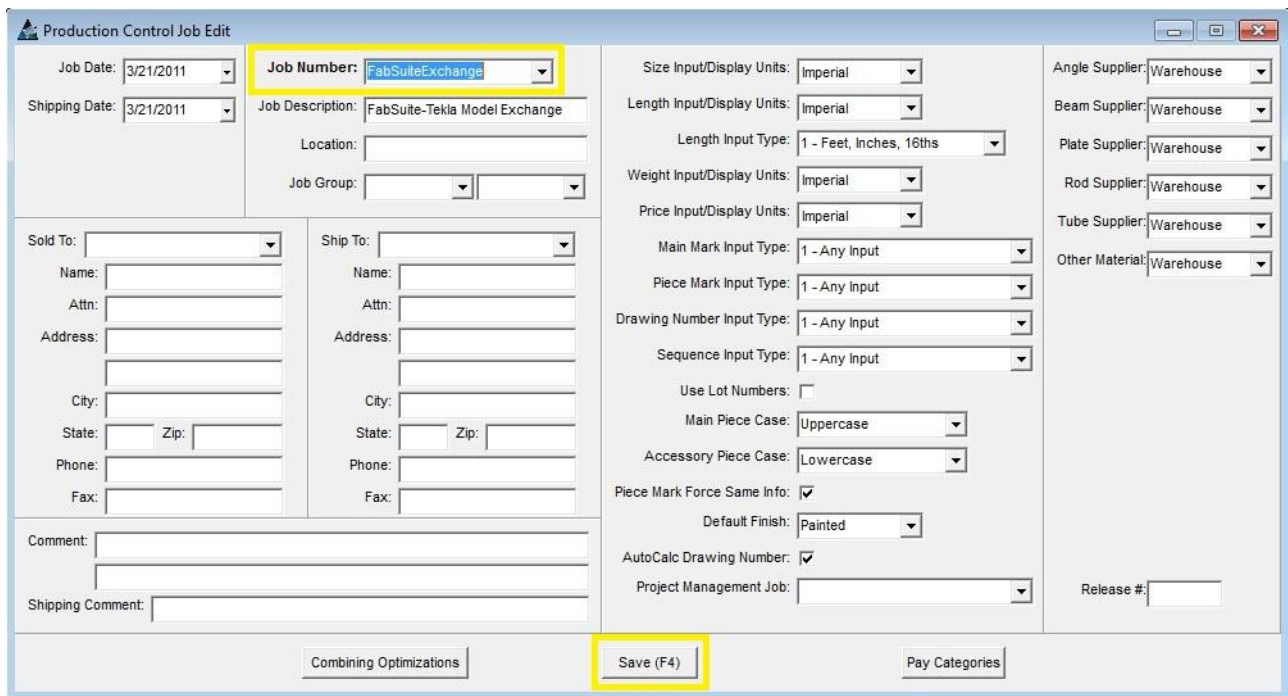
To save the selected field mappings for Part User-Defined fields, click Yes and enter a name for the Import Type.



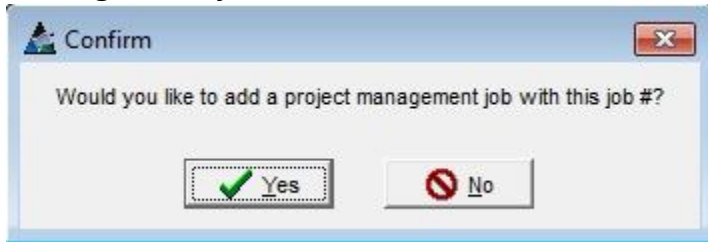
If another file with the same user-defined fields is imported, the match will be found. Click Yes to proceed using that saved Import Type.



After the drawing and part user-defined fields have been mapped to FabSuite fields the Production Control Job Edit screen will open. Enter the Job Number to use in FabSuite or select an existing job to import revisions into. Enter any desired settings and job information and click the Save button on the bottom of the screen.

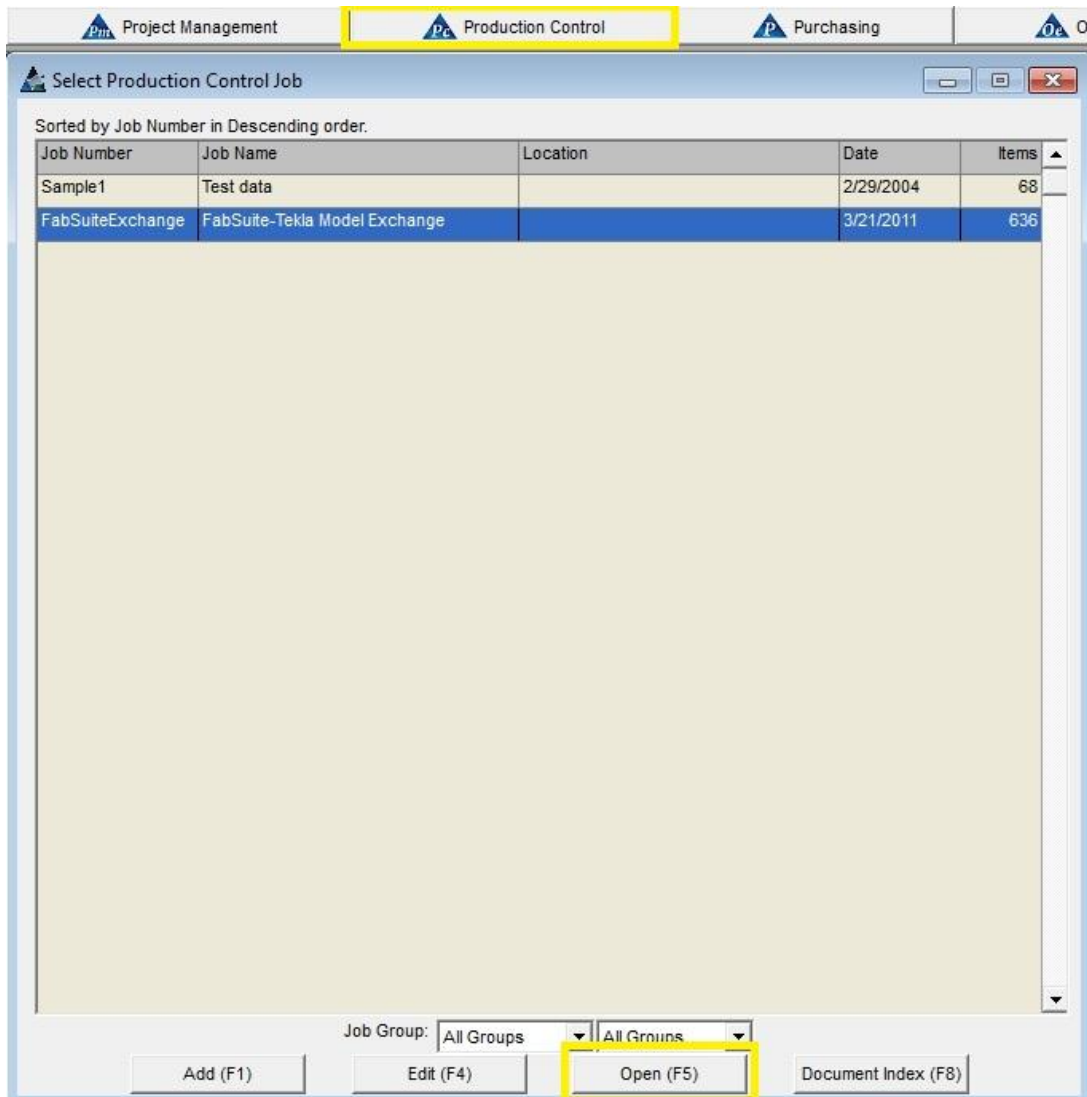


If the job does not already exist in FabSuite then you will be prompted to add a Project Management job, click Yes.



The import will now proceed to validate and save the job into FabSuite. If CNC and/or Drawing Files were included in the file then they will automatically be added to FabSuite.

To view the bill of materials, click the Production Control button on the title bar of the FabSuite application. Select the job that was just imported and click the Open button on the bottom of the screen.



The Production Control Job screen lists the bill of materials and has options to track, process, and report on the job. See the FabSuite User Manual for more information on working with a Production Control job.

The right side of the screen shows the information of the line item currently selected. As you can see on the right, the values of the Part User-Defined have been saved to the Category and Sub-Category fields that were selected on the Import Field Map screen. The three columns on the right of the middle display show information from the CNC files that is now available in FabSuite.

Production Control: FabSuiteExchange - FabSuite-Tekla Model Exchange

Shape: ALL
Grade: ALL
Dimensions: ALL
Drawing: ALL
Main Mark: ALL

Sequence: ALL
Load: ALL

	Quantity	Total	Displayed	Selected	Selected Asm	Asm (Total)	Item (Total)
Quantity:	21,410	21,410	21,410	1	1	1	1
Length (Ft):	18,430.57	18,430.57	18,430.57	27.94	42.89	42.89	27.94
Square Feet:	586.82	586.82	586.82	0.00	8.68	8.68	0.00
Weight (lbs):	889,962.77	889,962.77	889,962.77	2,067.38	2,212.39	2,212.39	2,067.38
Sur. Area (SqFt):	94,983.27	94,983.27	94,983.27	158.08	177.60	177.60	158.08

Find Shape/Grade/Size (Sft+F5) Find Item (Ctrl+F5)

FabSuiteExchange - FabSuite-Tekla Model Exchange

Sorted by Dwg in Ascending order.

Dwg	Qty	Main Mk	Piece Mk	Shape	Dimension	Length	Seq	Trks	Miter	Holes	Hole Dia
100	1	100C1		W	14 x 74	27'-11 1/4	1	Una	N	50	13/16
100	1	100C1	BP2	PL	3/4 x 16	1'-8	1	Unas	N	4	1 1/16
100	1	100C1	p50	FB	3/4 x 8 1/2	1'-9	1	Unas	N	13	13/16 (12), 2 (
100	2	100C1	p51	FB	5/8 x 8 1/2	1'-9	1	Unas	N	12	13/16
100	4	100C1	p52	FB	5/8 x 3	1'-9	1	Unas	N	6	13/16
100	1	100C1	p82	FB	3/8 x 11 1/2	1'-0 7/16	1	Unas	N	4	13/16
100	4	100C1		HS	3/4 x 0'-2		1	Unas			
100	12	100C1		HS	3/4 x 0'-2 1/2		1	Unas			
100	24	100C1		HS	3/4 x 0'-3 1/4		1	Unas			
100	40	100C1		NU	3/4		1	Unas			
100	40	100C1		WA	3/4		1	Unas			
100	2	100C2		W	14 x 48	19'-5 1/2	1	Una	N	50	13/16
100	1	100C3		W	14 x 109	27'-11 1/4	1	Una	N	74	13/16
100	1	100C3	BP2	PL	3/4 x 16	1'-8	1	Unas	N	4	1 1/16
100	1	100C3	p50	FB	3/4 x 8 1/2	1'-9	1	Unas	N	13	13/16 (12), 2 (
100	2	100C3	p51	FB	5/8 x 8 1/2	1'-9	1	Unas	N	12	13/16
100	4	100C3	p52	FB	5/8 x 3	1'-9	1	Unas	N	6	13/16
100	1	100C3	p61	PL	3/8 x 6 3/4	0'-8 5/16	1	Unas	N	1	13/16
100	12	100C3		HS	3/4 x 0'-2 1/2		1	Unas			
100	24	100C3		HS	3/4 x 0'-3 1/2		1	Unas			

Main Mark: 100C1 Piece Mark: 100C1

Approval Status: []

Drawing Number: 100 Quantity: 1

Shape: W Wideflange Beams

Dimensions: W 14 x 74

Length: 27' 11 1/4 Grade: A992

Finish: [] Route: []

Remark: []

Category: C Sub-Category: R

Pay Category: [] Piece Tracking: []

Intermediate Shipping: [] Load Tracking: []

Sequences (1/1):

Sequence	Quantity
1	1

Edit Sequences (F6) Loads (0/1):

To open the Drawing Log, select the menu option Production Control -> Drawing Log.

Production Control

- Filter
- Combine
- Purchasing
- Piece Tracking
- TFS Entry
- Load Tracking
- Review
- History of Changes
- Modify Data
- Switch To Metric/Imperial Mode
- CNC Files Ctrl+N
- Drawing Log Ctrl+D
- Export
- Reports Ctrl+R

The Drawing Log shows each of the drawings that have been imported into FabSuite. The values from the Drawing User-Defined fields have been saved into the Checked By and Date Checked fields that were selected on the Import Field Map screen.

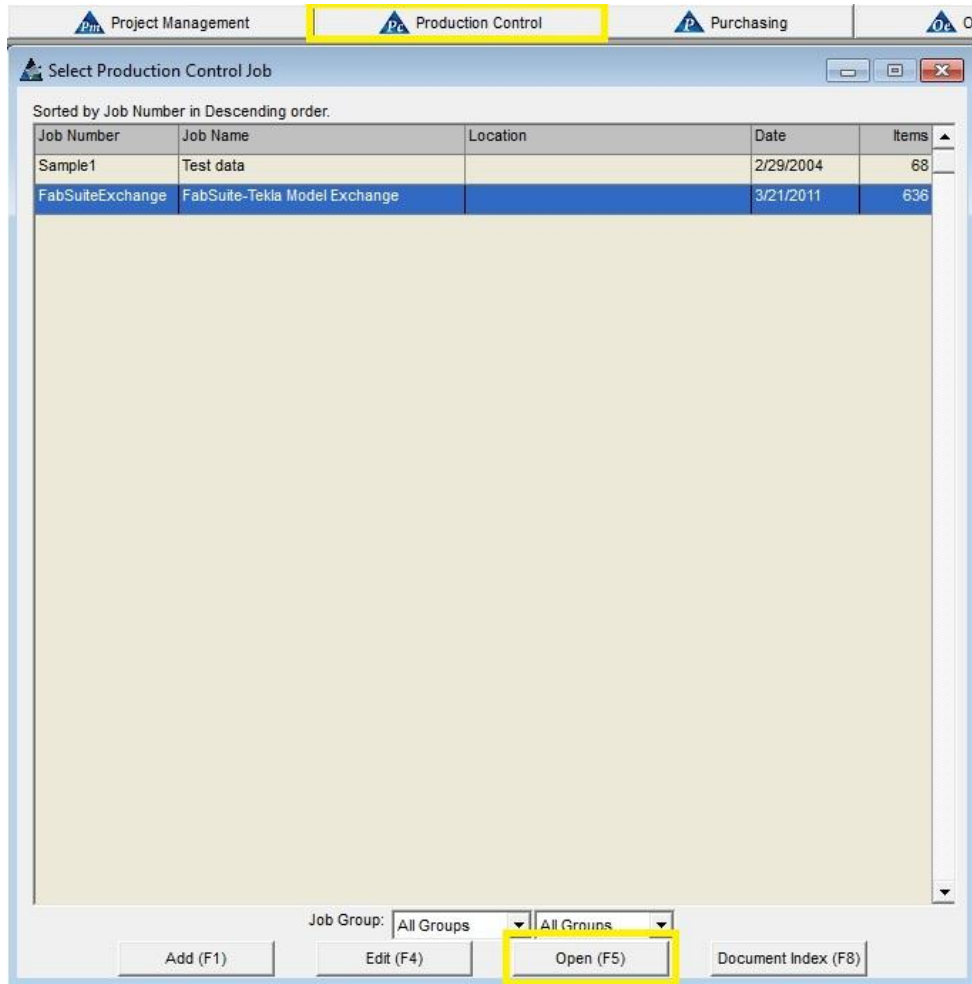
Drawing #	Revision #	Description	App	Date Detailed	Date Revised	Rev File
G1		PLAN Basement		12/29/2010		F
G2		PLAN FloorLevel		12/29/2010		F
G3		PLAN 2ndFloor		12/29/2010		F
G4		PLAN 3rdFloor		12/29/2010		F
G5		PLAN 4thFloor		12/29/2010		F
G6		PLAN Roof		12/29/2010		F
G7		ELEVATION ON GRID 1		12/29/2010		F
G8		ELEVATION ON GRID 2		12/29/2010		F
G9		ELEVATION ON GRID 3		12/29/2010		F
100		COLUMNS		12/29/2010		
101		COLUMNS		12/29/2010		
102		COLUMNS		12/29/2010		
103		COLUMNS		12/29/2010		
104		COLUMNS		12/29/2010		
105		COLUMNS		12/29/2010		
106		COLUMNS		12/29/2010		
107		COLUMNS		12/29/2010		
108		COLUMNS		12/29/2010		
109		COLUMNS		12/29/2010		
110		COLUMNS		12/29/2010		
111		COLUMNS		12/29/2010		
200		BEAMS		12/29/2010		F
201		BEAMS		12/29/2010		
202		BEAMS		12/29/2010		F

The right-most field in the main display shows an 'F' for each drawing that has a file associated with it in FabSuite. In this example, not all drawing files were available when the export was performed with FabSuite TME (see: [Drawing Files](#)).

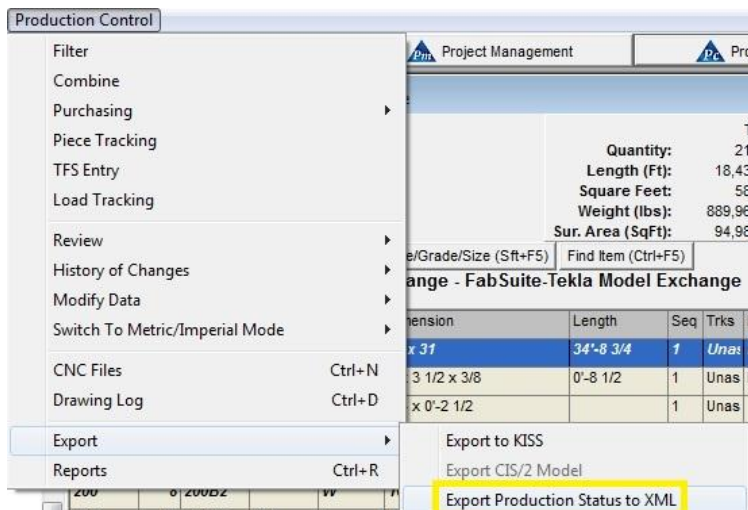
When a drawing has an 'F' in that field, indicating that a file is available, you can double-click on the drawing in the list and the file will open. The drawing files can also be opened directly from the Production Control job screen by double-clicking on a line item in the bill of materials.

Export Status from FabSuite to XML

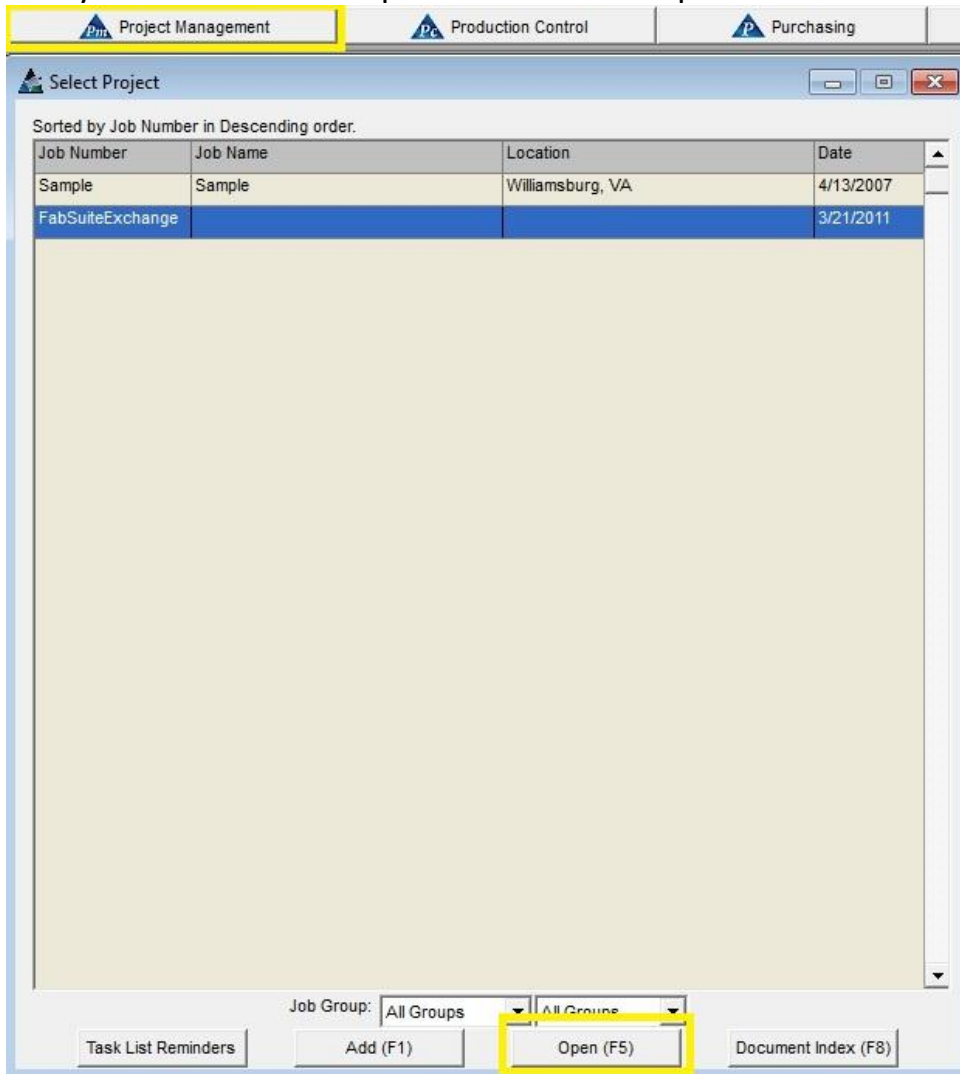
To open the job, click the Production Control button on the title bar of the FabSuite application. Select the job that you would like to export and click the Open button on the bottom of the screen.



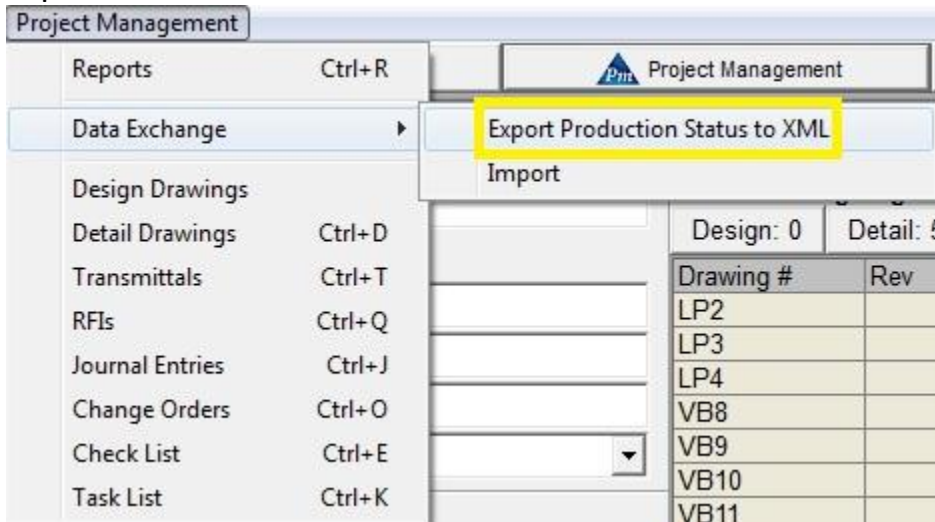
To export the job, select the menu option Production Control -> Export -> Export Production Status to XML.



The status can also be exported from the Project Management module. Click the Project Management button on the title bar of the FabSuite application. Select the job that you would like to export and click the Open button on the bottom of the screen.

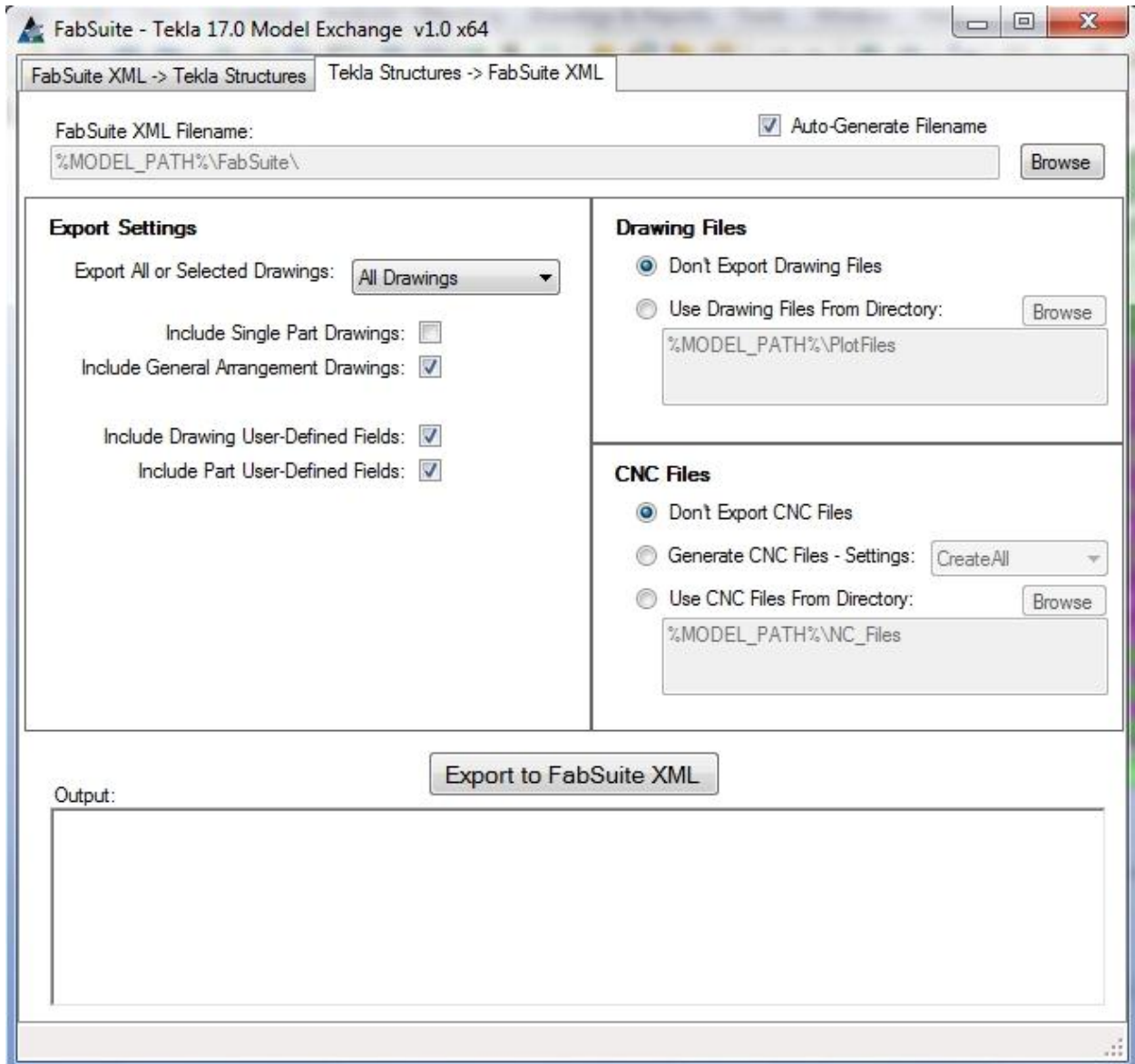


To export the job, select the menu option Project Management -> Data Exchange -> Export Production Status to XML.



Import FabSuite XML into Tekla Structures

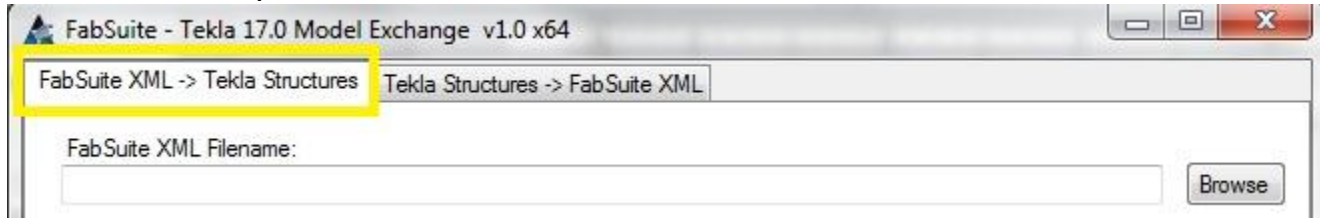
Click the FabSuite icon on the Tekla Structures toolbar, this will launch FabSuite TME.



There are two tabs across the top of the FabSuite TME application:

FabSuite XML -> Tekla Structures: Importing from FabSuite XML into Tekla Structures.
Tekla Structures -> FabSuite XML: Exporting from Tekla Structures into FabSuite XML.

If it is not already selected, click on the first tab – **FabSuite XML -> Tekla Structures**.



The **FabSuite XML -> Tekla Structures** tab has three sections where you can select the import settings:

[FabSuite XML Filename](#)

[Import Settings](#)

[Display Settings](#)

Once you have established the desired import settings, click the Import from FabSuite XML button. This will begin the import and save the current settings. The next time you launch FabSuite TME the same settings will be populated automatically.



As the import proceeds, the progress as well as any warning or error messages will be displayed in the Output area at the bottom of the screen. When the import completes, the Import Results screen will appear.

Import Results

The Import Results screen will open automatically when the import file has been read. The drawings are listed first, followed by the parts that have been imported. The fields in the table are the Drawing Number, Assembly Mark, Part Mark, Sequence, Lot #, followed by the Import Fields that were selected in the [Import Settings](#) area.

Import Results												
Select and Zoom		Update Model		Refresh		<input type="checkbox"/> Use Model Selection <input type="checkbox"/> Modified Objects Only		Object Representation: standard				
	Drawing Number	Assembly Mark	Part Mark	Seq	Lot	Approval Status	Asm Status	Date Issued	Shop Status	Date Fab. Completed	Load #	Load Status
	100					Approved						
	100	100C1	100C1	1		Approved	Completed		Completed-Shipped	3/18/2011	1	Shipped: 3/18/2011
	100	100C2	100C2	1		Approved	Completed		Completed-Shipped	3/18/2011	1	Shipped: 3/18/2011
	100	100C2	100C2	1		Approved	Completed		Completed-Shipped	3/18/2011	1	Shipped: 3/18/2011
	100	100C3	100C3	1		Approved	Completed		Completed-Shipped	3/18/2011	1	Shipped: 3/18/2011
	101					Approved						
	101	101C1	101C1	1		Approved	Completed		Completed-Shipped	3/18/2011	1	Shipped: 3/18/2011
	101	101C1	101C1	1		Approved	Completed		Completed-Shipped	3/18/2011	1	Shipped: 3/18/2011
	101	101C2	101C2	1		Approved	Completed		Completed-Shipped	3/18/2011	1	Shipped: 3/18/2011
	101	101C3	101C3	1		Approved	Completed		Completed-Shipped	3/18/2011	1	Shipped: 3/18/2011
	101	101C3	101C3	1		Approved	Completed		Completed-Shipped	3/18/2011	1	Shipped: 3/18/2011
	102					Approved						
	102	102C1	102C1	1		Approved	Completed		Completed-Shipped	3/18/2011	2	Shipped: 3/18/2011
	102	102C2	102C2	1		Approved	Completed		Completed-Shipped	3/18/2011	2	Shipped: 3/18/2011
	102	102C2	102C2	1		Approved	Completed		Completed-Shipped	3/18/2011	2	Shipped: 3/18/2011
	102	102C3	102C3	1		Approved	Completed		Completed-Shipped	3/18/2011	2	Shipped: 3/18/2011
	103					Approved						
	103	103C1	103C1	1		Approved	Completed		Completed-Shipped	3/18/2011	2	Shipped: 3/18/2011
	103	103C1	103C1	1		Approved	Completed		Completed-Shipped	3/18/2011	2	Shipped: 3/18/2011
	103	103C2	103C2	1		Approved	Completed		Completed-Shipped	3/18/2011	2	Shipped: 3/18/2011
	103	103C2	103C2	1		Approved	Completed		Completed-Shipped	3/18/2011	2	Shipped: 3/18/2011
	103	103C2	103C2	1		Approved	Completed		Completed-Shipped	3/18/2011	2	Shipped: 3/18/2011
	103	103C2	103C2	1		Approved	Completed		Completed-Shipped	3/18/2011	2	Shipped: 3/18/2011
	103	103C3	103C3	1		Approved	Completed		Completed-Shipped	3/18/2011	2	Shipped: 3/18/2011

The information displayed was read from the FabSuite XML file. During the import it is compared against the existing data in the Tekla Structures model. When the imported data is different than the model, the field is highlighted in yellow.

So far, the model has not been updated. The FabSuite XML file has only been read and compared against the model.

The options across the top of the screen allow you interact with the model:

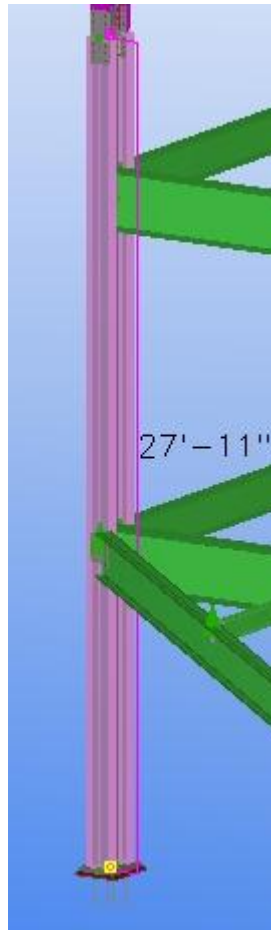
Select and Zoom

Select one or more parts in the list and click the Select and Zoom button. Those parts will be selected in the model and the view will Zoom to that area.

Import Results

Select and Zoom Update Model R

	Drawing Number	Assembly Mark	Part Mark	Seq	Lot
	100				
▶	100	100C1	100C1	1	
	100	100C2	100C2	1	
	100	100C2	100C2	1	
	100	100C3	100C3	1	
	101				
	101	101C1	101C1	1	
	101	101C1	101C1	1	
	101	101C2	101C2	1	
	101	101C3	101C3	1	
	101	101C3	101C3	1	
	102				
	102	102C1	102C1	1	
	102	102C2	102C2	1	
	102	102C2	102C2	1	
	102	102C3	102C3	1	
	103				
	103	103C1	103C1	1	

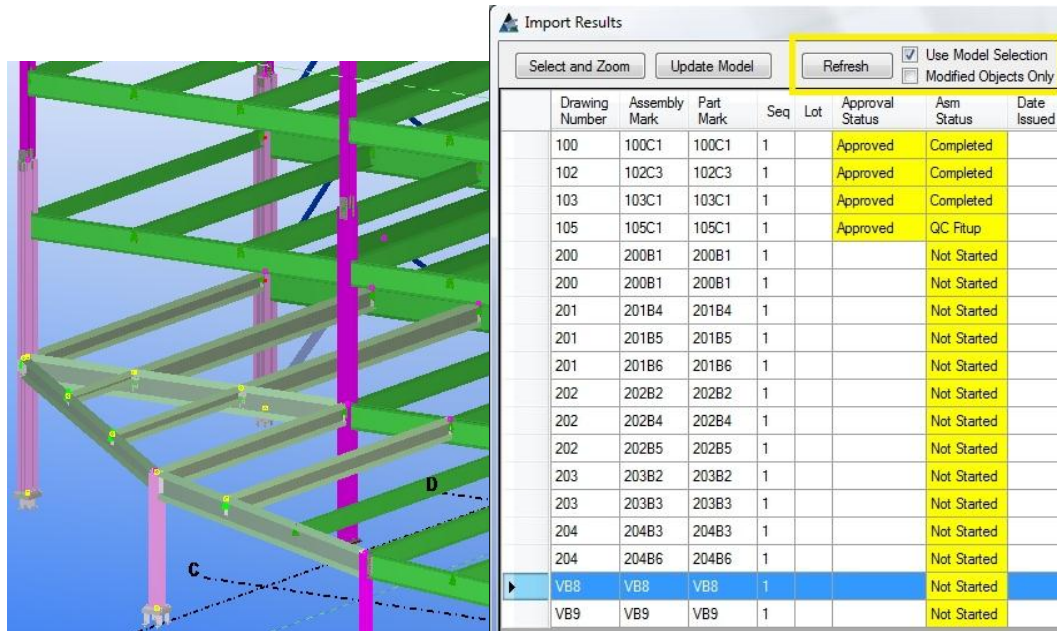


Refresh

Reloads the information from the model and refreshes the display. Use the following options to restrict the information that is displayed after the Refresh button is clicked.

Use Model Selection

Only display the parts that are currently selected in the model.

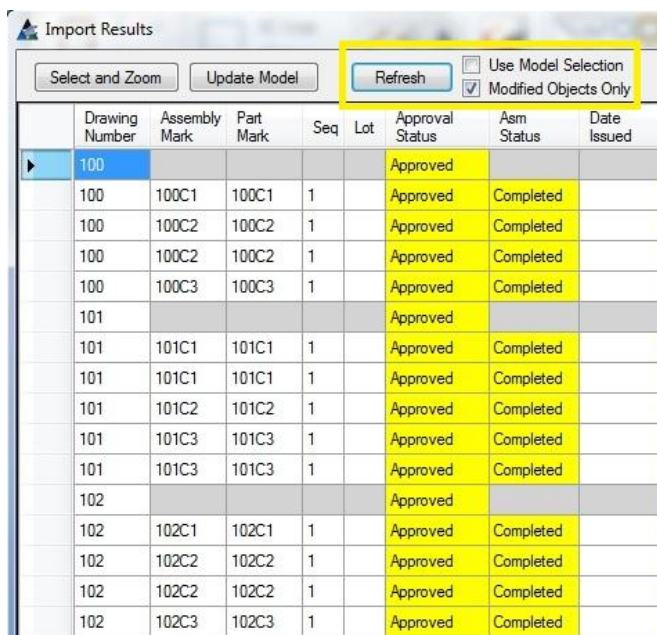


The screenshot shows the 'Import Results' dialog box. On the left is a 3D model of a structure with green beams and purple columns. On the right is a table with the following data:

	Drawing Number	Assembly Mark	Part Mark	Seq	Lot	Approval Status	Asm Status	Date Issued
	100	100C1	100C1	1		Approved	Completed	
	102	102C3	102C3	1		Approved	Completed	
	103	103C1	103C1	1		Approved	Completed	
	105	105C1	105C1	1		Approved	QC Fitup	
	200	200B1	200B1	1			Not Started	
	200	200B1	200B1	1			Not Started	
	201	201B4	201B4	1			Not Started	
	201	201B5	201B5	1			Not Started	
	201	201B6	201B6	1			Not Started	
	202	202B2	202B2	1			Not Started	
	202	202B4	202B4	1			Not Started	
	202	202B5	202B5	1			Not Started	
	203	203B2	203B2	1			Not Started	
	203	203B3	203B3	1			Not Started	
	204	204B3	204B3	1			Not Started	
	204	204B6	204B6	1			Not Started	
▶	VB8	VB8	VB8	1			Not Started	
	VB9	VB9	VB9	1			Not Started	

Modified Objects Only

Only drawings and parts that have information that is different than the model will be shown.

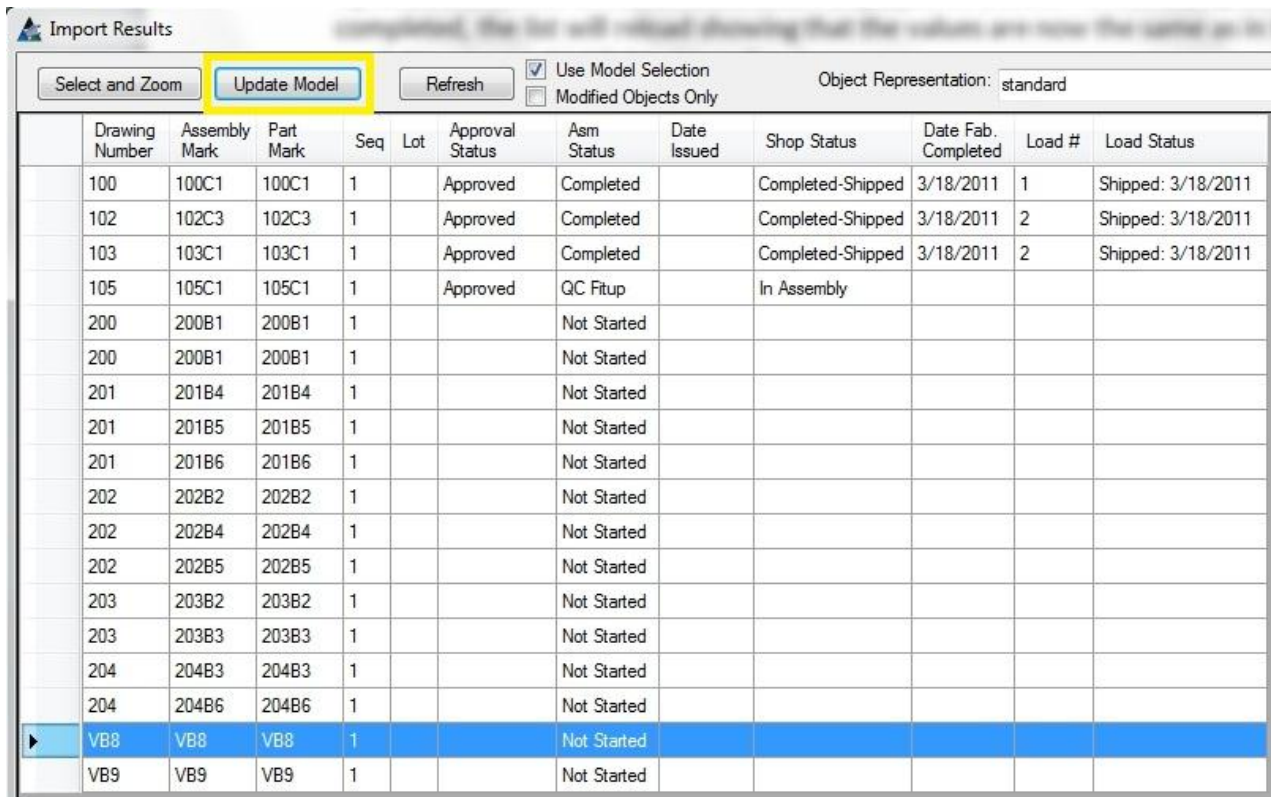


The screenshot shows the 'Import Results' dialog box with the 'Modified Objects Only' checkbox checked. The table displays the following data:

	Drawing Number	Assembly Mark	Part Mark	Seq	Lot	Approval Status	Asm Status	Date Issued
▶	100					Approved		
	100	100C1	100C1	1		Approved	Completed	
	100	100C2	100C2	1		Approved	Completed	
	100	100C2	100C2	1		Approved	Completed	
	100	100C3	100C3	1		Approved	Completed	
	101					Approved		
	101	101C1	101C1	1		Approved	Completed	
	101	101C1	101C1	1		Approved	Completed	
	101	101C2	101C2	1		Approved	Completed	
	101	101C3	101C3	1		Approved	Completed	
	101	101C3	101C3	1		Approved	Completed	
	102					Approved		
	102	102C1	102C1	1		Approved	Completed	
	102	102C2	102C2	1		Approved	Completed	
	102	102C2	102C2	1		Approved	Completed	
	102	102C3	102C3	1		Approved	Completed	

Update Model

Updates the model with the information displayed in the list. When the update has completed, the list will reload showing that the values are now the same as in the model (no longer highlighted in yellow).



Import Results

completed, the list will reload showing that the values are now the same as in the model (no longer highlighted in yellow).

Select and Zoom **Update Model** Refresh Use Model Selection Object Representation: standard
 Modified Objects Only

	Drawing Number	Assembly Mark	Part Mark	Seq	Lot	Approval Status	Asm Status	Date Issued	Shop Status	Date Fab. Completed	Load #	Load Status
	100	100C1	100C1	1		Approved	Completed		Completed-Shipped	3/18/2011	1	Shipped: 3/18/2011
	102	102C3	102C3	1		Approved	Completed		Completed-Shipped	3/18/2011	2	Shipped: 3/18/2011
	103	103C1	103C1	1		Approved	Completed		Completed-Shipped	3/18/2011	2	Shipped: 3/18/2011
	105	105C1	105C1	1		Approved	QC Fitup		In Assembly			
	200	200B1	200B1	1			Not Started					
	200	200B1	200B1	1			Not Started					
	201	201B4	201B4	1			Not Started					
	201	201B5	201B5	1			Not Started					
	201	201B6	201B6	1			Not Started					
	202	202B2	202B2	1			Not Started					
	202	202B4	202B4	1			Not Started					
	202	202B5	202B5	1			Not Started					
	203	203B2	203B2	1			Not Started					
	203	203B3	203B3	1			Not Started					
	204	204B3	204B3	1			Not Started					
	204	204B6	204B6	1			Not Started					
▶	VB8	VB8	VB8	1			Not Started					
	VB9	VB9	VB9	1			Not Started					

Only the drawings and parts currently displayed in the list will be updated. In the example above the data is restricted to the objects selected in the model. No other parts have been affected.

To update all drawings and parts:

1. Un-check the Use Model Selection option.
2. Click the Refresh button.
3. Click the Update Model button.

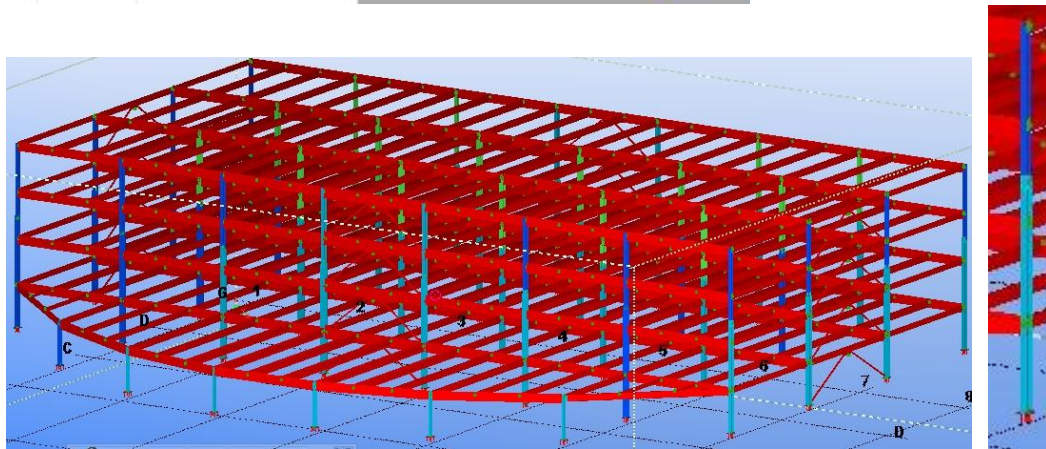
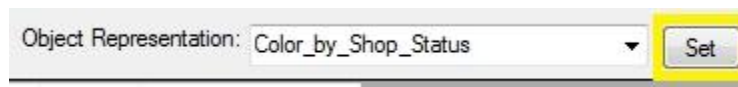
Object Representation

This option allows you to apply a representation to the model, coloring the parts by status.



To add additional representations to the drop-down, enter them in the [Display Settings](#) area of the import tab.

To apply a representation to the model, select it in the drop-down and click the Set button.



The image above shows that several columns on the upper level have been shipped, while the lower columns are still in fabrication. For more information, select those columns in the model. On the Import Result screen in FabSuite TME, select the Use Model Selection option and click Refresh.

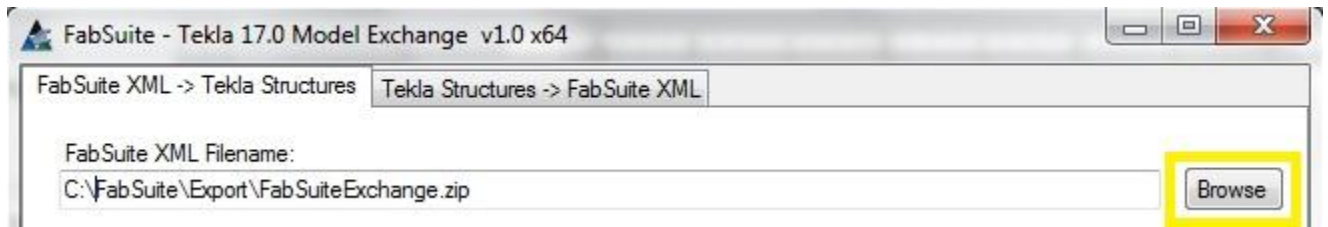
Import Results

Select and Zoom Update Model Refresh Use Model Selection Modified Objects Only Object Representation: Color_by_Shop_Status

Drawing Number	Assembly Mark	Part Mark	Seq	Lot	Approval Status	Asm Status	Date Issued	Shop Status	Date Fab. Completed	Load #	Load Status
100	100C2	100C2	1		Approved	Completed		Completed-Shipped	3/18/2011	1	Shipped: 3/18/2011
101	101C1	101C1	1		Approved	Completed		Completed-Shipped	3/18/2011	1	Shipped: 3/18/2011
101	101C3	101C3	1		Approved	Completed		Completed-Shipped	3/18/2011	1	Shipped: 3/18/2011
102	102C2	102C2	1		Approved	Completed		Completed-Shipped	3/18/2011	2	Shipped: 3/18/2011
109	109C3	109C3	1		Approved	Cut		In Assembly			
110	110C1	110C1	1		Approved	Cut		In Assembly			
111	111C1	111C1	1		Approved	Cut		In Assembly			
111	111C2	111C2	1		Approved	Cut		In Assembly			

FabSuite XML Filename

Enter or browse to the FabSuite XML file to import. The file could have the extension .XML or .ZIP if it is compressed.



Import Settings

The section on the left has settings to determine the data that will be imported from the FabSuite XML file.

Import Settings

Read Status of: Drawings & Main Members ▼

Import Fields:

<input checked="" type="checkbox"/>	Approval Status
<input checked="" type="checkbox"/>	Assembly Status
<input checked="" type="checkbox"/>	Date Issued
<input checked="" type="checkbox"/>	Shop Status
<input checked="" type="checkbox"/>	Date Fabrication Completed
<input checked="" type="checkbox"/>	Load #
<input checked="" type="checkbox"/>	Load Status
<input type="checkbox"/>	PO #
<input type="checkbox"/>	Vendor
<input type="checkbox"/>	Heat #
<input type="checkbox"/>	Date Due
<input type="checkbox"/>	Date Received

Import Settings

Read Status of: Drawings & Main Members ▼

Import Fields:

<input checked="" type="checkbox"/>	Approval Status
<input checked="" type="checkbox"/>	Assembly Status
<input checked="" type="checkbox"/>	Date Issued
<input checked="" type="checkbox"/>	Shop Status
<input checked="" type="checkbox"/>	Date Fabrication Completed
<input checked="" type="checkbox"/>	Load #
<input checked="" type="checkbox"/>	Load Status
<input type="checkbox"/>	PO #
<input type="checkbox"/>	Vendor
<input type="checkbox"/>	Heat #
<input type="checkbox"/>	Date Due
<input type="checkbox"/>	Date Received

Read Status of

Choose the option for the types of parts/drawings that should be imported.

Import Fields

Select the individual fields that should be imported.

Display Settings

The section on the right allows you to enter the Object Representations that will be available on the Import Results screen. The representations must exist in Tekla Structures.

Display Settings

Object Representations
standard
Color_by_Shop_Status

To add a new representation, click on the blank item at the end of the list and type the name of the Object Representation from Tekla Structures.

Display Settings

Object Representations
standard
Color_by_Shop_Status

To rename a representation, click on the item in the list and type in the new name.

Display Settings

Object Representations
standard
Color_by_Shop_Status

Customizing User-Defined Export Fields

The User-Defined export fields come from two Tekla reports that are installed by FabSuite TME:

FabSuite_Drawing_UserDefined_v1.rpt
FabSuite_Part_UserDefined_v1.rpt

Do not customize any of the other reports installed by FabSuite TME.

These reports, along with several others, are installed in:

environments\common\system\ environments\usimp\us_common\system	<i>TS 17.0 only</i>
environments\usmet\us_common\system	<i>TS 17.0 only</i>

Both the Drawing and Part UserDefined reports produce a tab-delimited text file. These reports can be customized to retrieve different information from the Tekla model, subject to the following restrictions:

- The report fields must be separated by a tab character.
- The report must have a single header line containing the name of each field. These names will be included in the export file. During the FabSuite import, the names will be displayed for the user to decide which FabSuite field to bring the data into.
- The field names cannot be duplicated.
- Part UserDefined report – The first field must be the part GUID. The name in the report header of the first field must be: GUID
- Drawing UserDefined report – The first field must be the drawing ID. The name in the report header of the first field must be: ID
- The report header must be a single line.
- Each record in the report must be a single line.

After customizing a report, copy it into the *environments\common\system* directory and overwrite the existing file. For Tekla Structures 17.0 installations, copy the file into the usimp and usmet paths listed above.

Important: Keep extra copies of the customized reports in a directory other than the ones listed above. If you install a FabSuite TME upgrade in the future your reports will be overwritten. You will need extra copies to re-install.