VXL Template

PDS001 – Product Structure Admin

User Instruction

17/01/2023

Table of Content

Version Control

Version	Date	Changed by	Comments
V1	12/14/22	N/A	N/A

1 Why VXL Templates?

In general, the purpose of a VXL template is to give our customers a good starting point in relation to data maintenance within a specific area in M3. A predefined VXL template can work for the customer exactly as it is but can also lack specific data or provide more data beyond what the customer maintains. The idea is that customers have the VXL template as a starting point and can themselves make the necessary small adjustments to make it perfect for their own needs.

2 What will it solve?

The purpose of this VXL template is to save time and cost on PDS001 - Product Structure maintenance in M3.

3 How does it work?

This function has tasks for both export from M3 to Excel and Import from Excel back to M3.

Export from M3 to Excel

- You can export product data from PDS001 from M3 to Excel, as well as export the product components and operations in PDS002 from M3 to Excel.

Import from Excel to M3

- You can add and update Product data from Excel to PDS001 in M3, as well as add, update, and delete product components and operations from Excel to PDS002 in M3.

4 Where can you find the VXL Template?

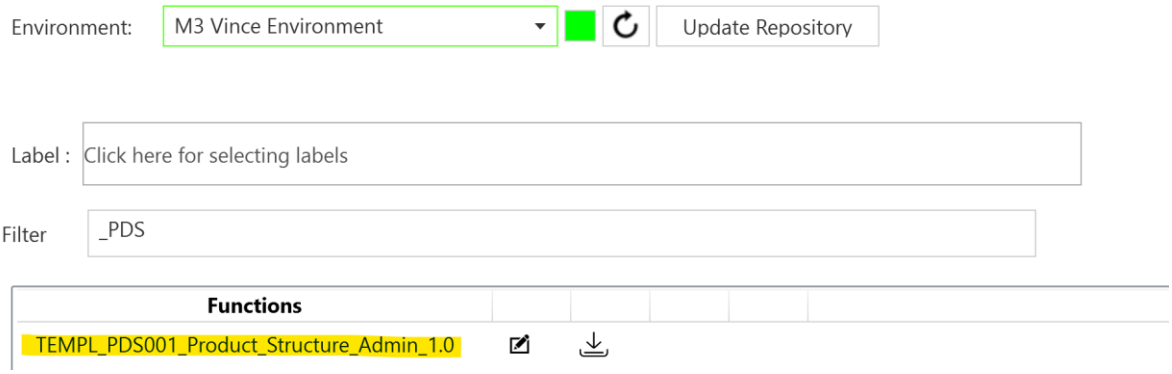
This template is installed in the Vince Template Company on the VXL server. The function is named "TEMPL_PDS001_Product_Structure_Admin"

5 Recommendations

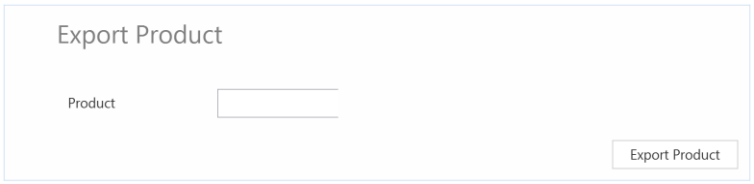
- The template can be run and used as it is but If you would like to do any changes to it we recommend that you copy it and do the changes on the copied function.
- This is only a template, so all fields in PDS001 and PDS002 are not included in the excel sheet. If you want to include more field's, hidden columns have been set aside for this before column AA. Remember that if you add more columns, the Excel file must be saved as a template, the new Excel template must be linked to the function (the old must be deleted) and you must map up the new Excel fields with the APIs in the configurator.
- This VXL template has not been tested in depth by Vince, so we recommend testing this thoroughly in the M3 test environment before this is lifted to the M3 production environment.

6 The VXL Client

In the VXL client you will find your new template **"TEMPL_PDS001_Product_Structure_Admin"**

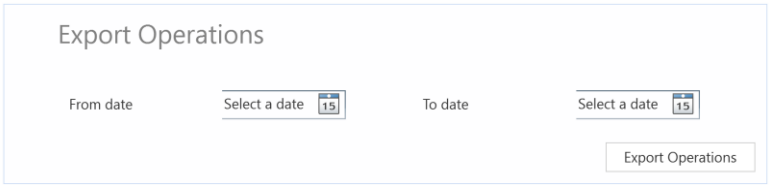


When you open the function as shown below, it contains various tasks for export and import.

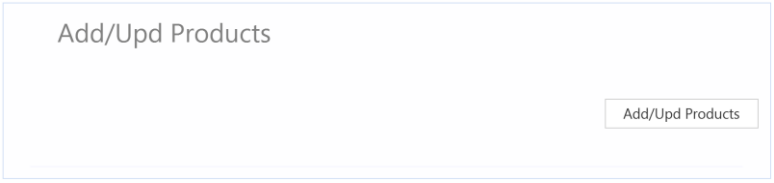


This task is used for exporting one PDS001 Product from M3 to Excel. This data will be exported to the tab "Product" in the Excel file.
If you like, you may reconfigure this step in the configurator and use another API transaction that lists multiple products. This will also open up for listing components/operations for the multiple products.

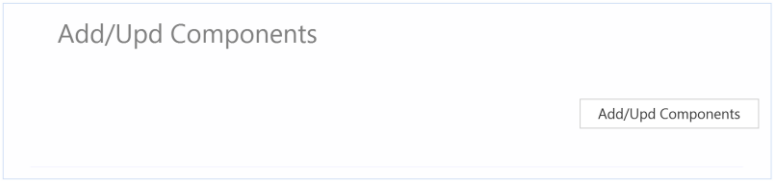
Based on the product exported to the spread sheet "Product" in the task above, this task is used for exporting components data from M3 to Excel. This data will be exported to the tab



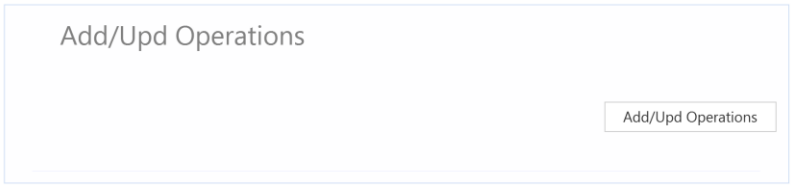
Based on the product exported to the spread sheet "Product" in the task above, this task is used for exporting operations data from M3 to Excel. This data will be exported to the tab



This task is used for import Product data from Excel to M3. You may add new products or update existing ones in PDS001.
VXL import the data from the tab "Product" in the Excel file.



This task is used for import Components data from Excel to M3. You may add new components or update existing ones in PDS002. VXL import the data from the tab "Component" in the Excel file.



This task is used for import operations data from Excel to M3. You may add new operations or update existing ones in PDS002. VXL import the data from the tab "Operation" in the Excel file.

This task is used for deleting component data from Excel to M3. You may delete components in PDS002 based on the rows marked with an lower case x in the Excel tab "Components" (column A)
VXL import the data from the tab "Components" in the Excel file.

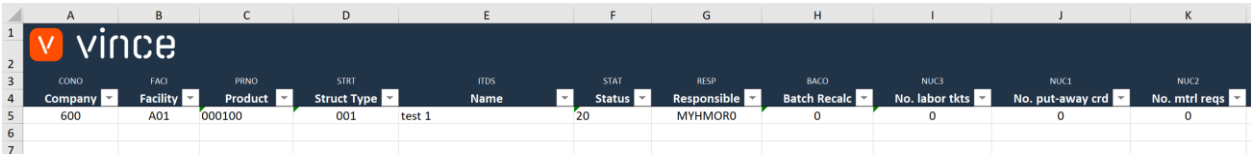
This task is used for deleting operations data from Excel to M3. You may delete operations in PDS002 based on the rows marked with an lower case x in the Excel tab "Operation" (column A)
VXL import the data from the tab "Operation" in the Excel file.

7 Example - How to run the VXL template

7.1 Export PDS001 - Product data from M3 to Excel

- Enter the product number in the field "Product"
- Then click the button "Export Product", give the Excel-file a name and store it.

The product number will then be exported to the excel tab "Product" as shown below.



CONO	FACI	PRNO	STRT	ITDS	STAT	RESP	BACO	NUC3	NUC1	NUC2
Company	Facility	Product	Struct Type	Name	Status	Responsible	Batch Recalc	No. labor tkts	No. put-away crd	No. mtrl reqs
600	A01	000100	001	test 1	20	MYHMOR0	0	0	0	0

If you are only going to work with the PDS001 product data (and not components or operations), you may jump directly to chapter 7.4 below to learn how to import PDS001 Product data changes back to M3.

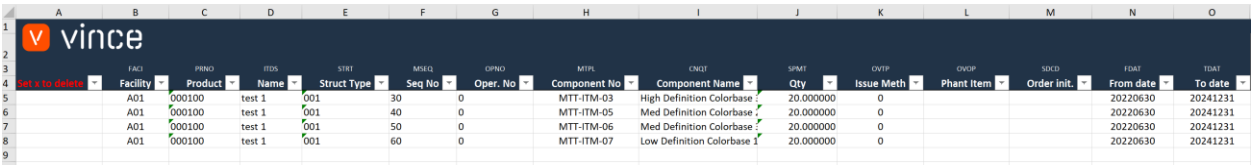
7.2 Export PDS002 Components data from M3 to Excel

Run this task if you want to export and work with PDS002 - Components in Excel. It requires that you first have exported the Product to the tab "Product" and saved/closed the excel file as described in chapter 7.1

When running this task, the components from the product in the tab "Product" will be exported to the excel tab "Component"

- If you maintain valid dates on your PDS002 components, you can filter the components you export to excel by adding a date in the field "From date". If you leave the from date field blank, all components will be exported for the product.
- Click the button "Export Components" and select the excel file you stored in chapter 7.1

The components will then be exported to the excel tab "Component" as shown below.



Set x to delete	Facility	Product	Name	Struct Type	Seq No	Oper. No	Component No	Component Name	Qty	Issue Meth	Phant Item	Order init.	From date	To date
	A01	000100	test 1	001	30	0	MTT-ITM-03	High Definition Colorbase	20.000000	0			20220630	20241231
	A01	000100	test 1	001	40	0	MTT-ITM-05	Med Definition Colorbase	20.000000	0			20220630	20241231
	A01	000100	test 1	001	50	0	MTT-ITM-06	Med Definition Colorbase	20.000000	0			20220630	20241231
	A01	000100	test 1	001	60	0	MTT-ITM-07	Low Definition Colorbase 1	20.000000	0			20220630	20241231

If you are only going to work with the PDS002 components data, you may jump directly to chapter 7.5 below to learn how to import PDS002 component data changes back to M3.

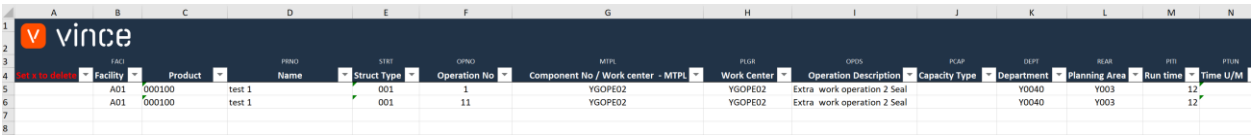
7.3 Export PDS002 Operations data from M3 to Excel

Run this task if you want to export and work with PDS002 - Operations in Excel. It requires that you first have exported the Product to the tab "Product" and saved/closed the excel file as described in chapter 7.1

When running this task, the operations from the product in the tab "Product" will be exported to the excel tab "Operation"

- If you maintain from-to valid dates on your PDS002 operations, you can filter the operations you export to excel by adding a date in the fields "From date" and "To date". If you leave the date fields blank, all operations will be exported for the product.
- Click the button "Export Operations" and select the excel file you stored in chapter 7.1

The PDS002 - Operations will then be exported to the excel tab "Operation" as shown below.



Set x to delete	Facility	Product	Name	Struct Type	Operation No	Component No / Work center - MTPL	Work Center	Operation Description	Capacity Type	Department	Planning Area	Run time	Time U/M
	A01	000100	test 1	001	1	YGOPE02	YGOPE02	Extra work operation 2 Seal		Y0040	Y003	12	
	A01	000100	test 1	001	11	YGOPE02	YGOPE02	Extra work operation 2 Seal		Y0040	Y003	12	

If you are only going to work with the PDS002 - Operations data, you may jump directly to chapter 7.6 below to learn how to import PDS002 operation data changes back to M3.

7.4 Add/update PDS001 Products from Excel to M3

Run this task if you want to import (add and update) the changed PDS001 Products data from the excel tab "Product".

As you can see from the screen dump below:

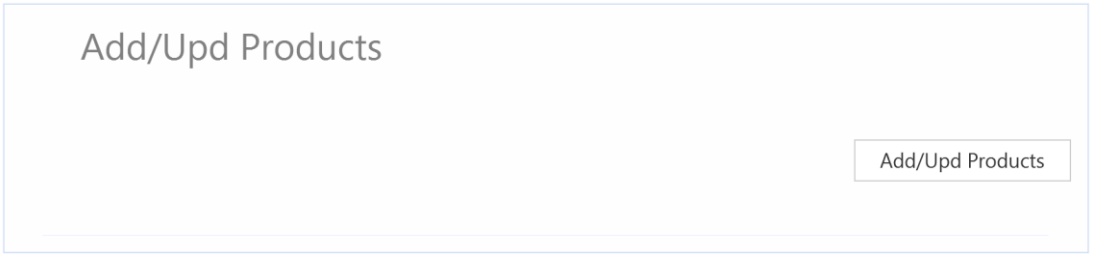
- The Responsible, No.labor tickets and No.mtrl reqs are changed on the existing product in row 5.
- Two new products (rows 6 and 7) with product number PN0101 and PN0102 are added in the spread sheet.

By doing this change to the excel data we will trigger both update and add of these products in PDS001.

	A	B	C	D	E	F	G	H	I	J	K
1	vince										
2											
3	CONO	FACI	PRNO	STRT	ITDS	STAT	RESP	BACO	NUC3	NUC1	NUC2
4	Company	Facility	Product	Struct Type	Name	Status	Responsible	Batch Recalc	No. labor tkts	No. put-away crd	No. mtrl reqs
5	600	A01	000100	001	test 1	20	JEWKIR0	0	2	0	3
6	600	A01	PN0101	001	test 1	20	NILPAL0	2	0	2	0
7	600	A01	PN0102	001	test 1	20	NILPAL0	2	0	2	0
8											

Now it's time to import the data to PDS001 in M3.

- Make sure that your edited Excel file is saved and closed.
- Click the button "Add/Upd Products" and select the excel file you want to import.



When the import is done the Excel file will open.

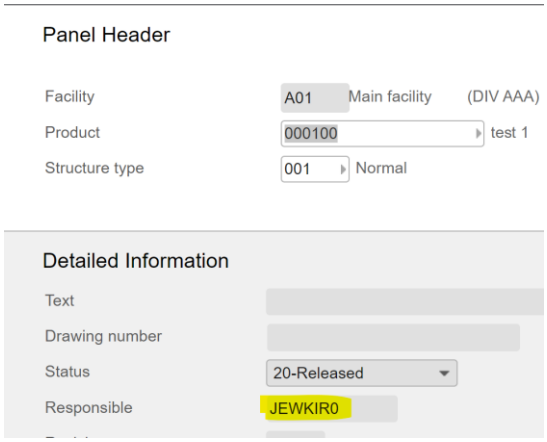
Scroll all the way to the right in the spread sheet to look at the API responses.

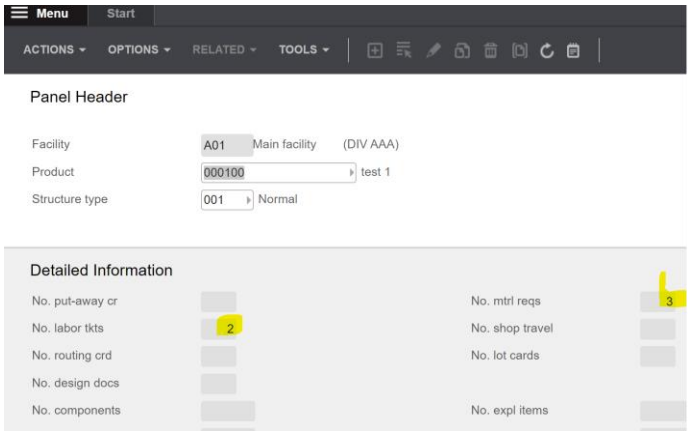
As we see from the screen dump below:

- Column AA "Total" say that everything is OK.
- Column AB, "API status Add" failed in row 5 with an error message saying that the Product already exists. This is not a problem since it is not possible to add a Product that already exists in M3.
- The two last rows 6 and 7 in column AB is OK since this is two new Products which did not exist in PDS001 before.
- Column AC, "API status Update" is OK on the for row 5 which is an existing product.
- The new products in rows 6 and 7 have not got any message since the Add product transaction is OK (rule set in the configurator)

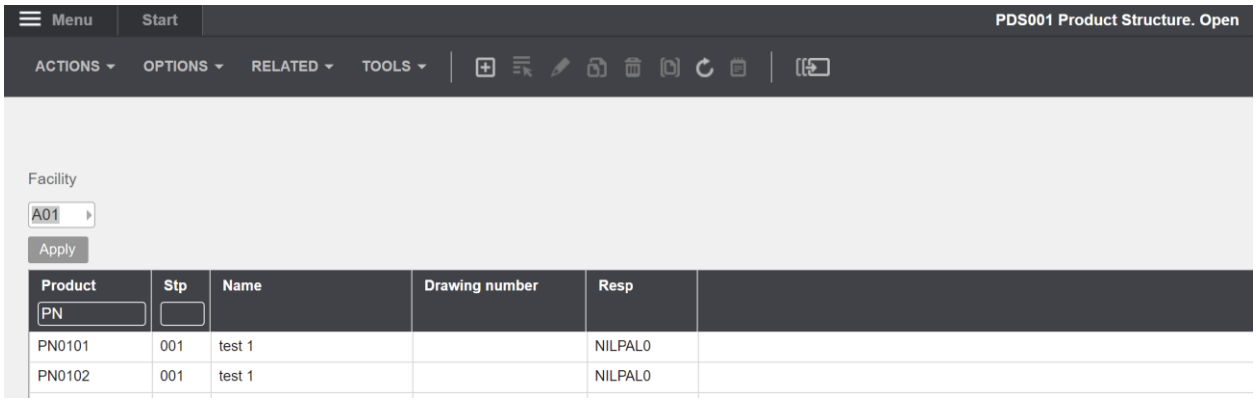
O	AA	AB	AC
	RESPONSE		
NUC7 esign docs	TOTAL	PDS001MI API Status Add	PDS001MI API Status Update
0	OK	NOK Product 000100 already exists	OK
0	OK	OK	
0	OK	OK	

If we check the data in PDS001/E-F we see that the existing product has been updated with the changes we made in the Excel sheet.





And that the two new products that were entered in the Excel sheet are now imported as products in PDS001



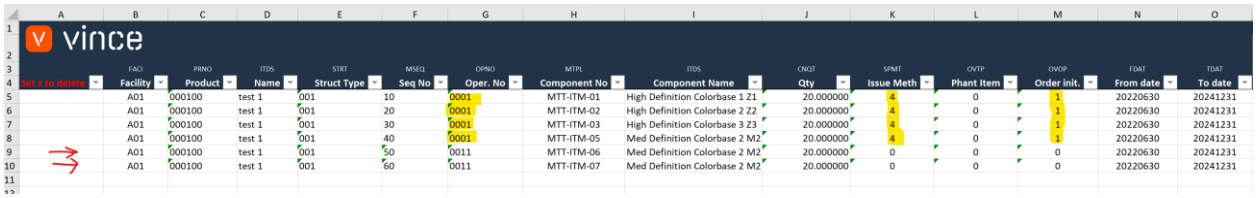
7.5 Add/update PDS002 Components from Excel to M3

Run this task if you want to import (add and update) the changed PDS002 components data from the excel tab "Component".

As you can see from the screen dump below:

- The Operation No, Issue method and Order initiated are changed on the existing products in rows 5 to 8.
- Two new components (row 9 and 10) with component number MTT-ITM-06 and MTT-ITM-06 are added in the spread sheet.

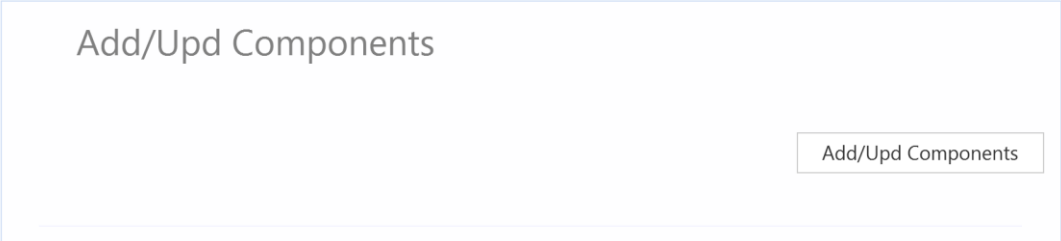
By doing this change to the excel data we will trigger both update and add of these components in PDS002.



Set x to delete	Facility	Product	Name	Struct Type	Seq No	Oper. No	Component No	Component Name	Qty	Issue Meth	Phant Item	Order init.	From date	To date
	A01	000100	test 1	001	10	0001	MTT-ITM-01	High Definition Colorbase 1 Z1	20.000000	4	0	1	20220630	20241231
	A01	000100	test 1	001	20	0001	MTT-ITM-02	High Definition Colorbase 2 Z2	20.000000	4	0	1	20220630	20241231
	A01	000100	test 1	001	30	0001	MTT-ITM-03	High Definition Colorbase 3 Z3	20.000000	4	0	1	20220630	20241231
	A01	000100	test 1	001	40	0001	MTT-ITM-05	Med Definition Colorbase 2 M2	20.000000	4	0	1	20220630	20241231
⇒	A01	000100	test 1	001	50	0011	MTT-ITM-06	Med Definition Colorbase 2 M2	20.000000	0	0	0	20220630	20241231
	A01	000100	test 1	001	60	0011	MTT-ITM-07	Med Definition Colorbase 2 M2	20.000000	0	0	0	20220630	20241231

Now it's time to import the data to PDS002 in M3.

- Make sure that your edited Excel file is saved and closed.
- Click the button "Add/Upd Components" and select the excel file you want to import.



When the import is done the Excel file will open.

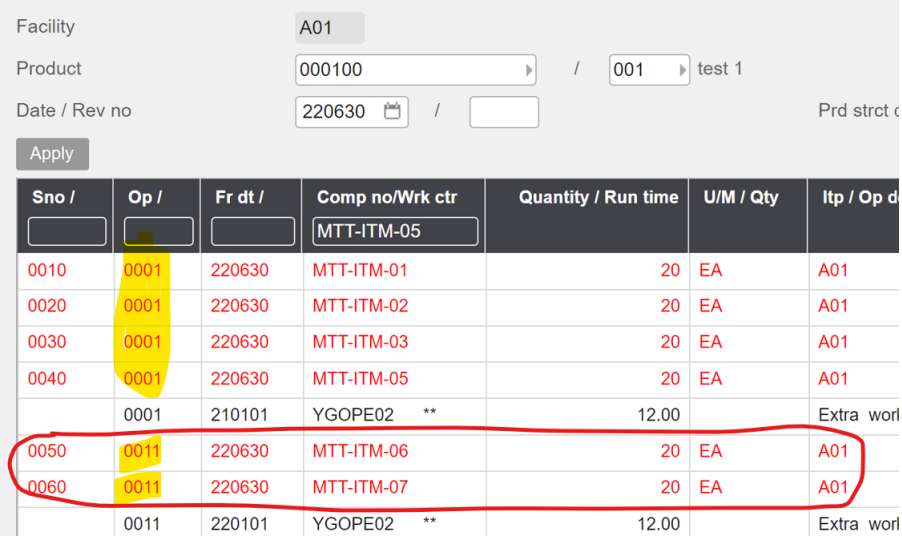
Scroll all the way to the right in the spread sheet to look at the API responses.

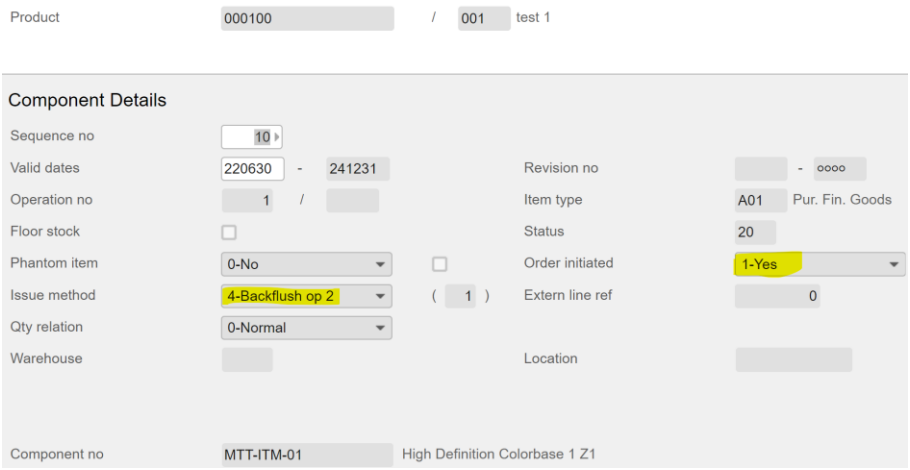
As we see from the screen dump below:

- Column AA "Total" say that everything is OK.
- Column AB, "API status Add" failed in rows 5 to 8 with an error message saying that the sequence number already exists. This is not a problem since it is not possible to add components that already exists in PDS002.
- The two last rows 9 and 10 in column AB, the add is OK since this is two new components which did not exist in PDS002 before.
- Column AC, "API status Update" is OK on the for all the rows.

AA	AB			AC	AD
				RESPONSE	
TOTAL	PDS002MI API Status Add			PDS002MI API Status Update	PDS002MI API Status Delete
OK	NOK	Sequence number	0010 already exists	OK	
OK	NOK	Sequence number	0020 already exists	OK	
OK	NOK	Sequence number	0030 already exists	OK	
OK	NOK	Sequence number	0040 already exists	OK	
OK	OK			OK	
OK	OK			OK	

If we check the data in PDS002 we see that the existing components has been updated with the changes we made in the Excel sheet, and that we have two new components connected to operation 0011





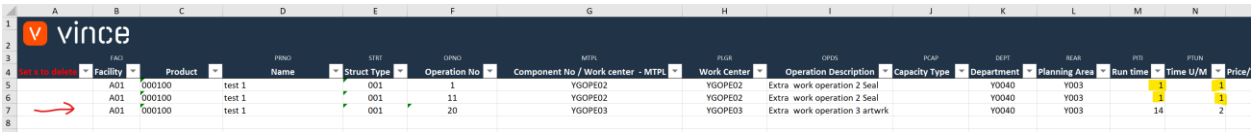
7.6 Add/update PDS002 Operations from Excel to M3

Run this task if you want to import (add and update) the changed PDS002 operations data from the excel tab "Operation".

As you can see from the screen dump below:

- The Operation No, Issue method and Order initiated are changed on the existing products in row 5 to 8.
- Two new components (row 9 and 10) with component number MTT-ITM-06 and MTT-ITM-06 are added in the spread sheet.

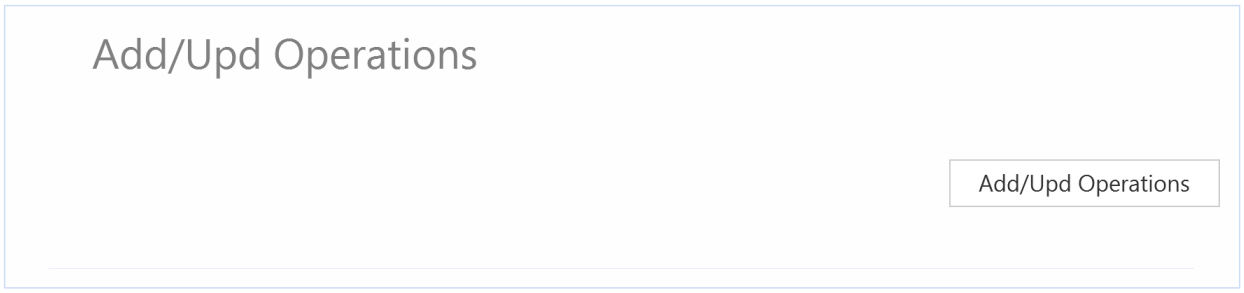
By doing this change to the excel data we will trigger both update and add of these components in PDS002.



Set x to delete	Facility	Product	Name	Struct Type	Operation No	Component No / Work center - MTPL	Work Center	Operation Description	Capacity Type	Department	Planning Area	Run time	Time U/M	Price/
	A01	000100	test 1	001	1	YGOPE02	YGOPE02	Extra work operation 2 Seal		Y0040	Y003	1	1	
	A01	000100	test 1	001	11	YGOPE02	YGOPE02	Extra work operation 2 Seal		Y0040	Y003	1	1	
	A01	000100	test 1	001	20	YGOPE03	YGOPE03	Extra work operation 3 artwrk		Y0040	Y003	14	2	

Now it's time to import the data to PDS002 in M3.

- Make sure that your edited Excel file is saved and closed.
- Click the button "Add/Upd Operations" and select the excel file you want to import.



When the import is done the Excel file will open.

Scroll all the way to the right in the spread sheet to look at the API responses.

As we see from the screen dump below:

- Column AA "Total" say that everything is OK.
- Column AB, "API status Add" failed in rows 5 and 6 with an error message saying that the operation number already exists. This is not a problem since it is not possible to add operations that already exists in PDS002.
- The two last row 7 in column AB, is OK since this is a new operation which did not exist in PDS002 before.
- Column AC, "API status Update" is OK on the for all the rows.

AA	AB		AC	AD
			RESPONSE	
TOTAL	PDS002MI API Status Add		PDS002MI API Status Update	PDS002MI API Status Delete
OK	NOK	Operation number 1 already exists	OK	
OK	NOK	Operation number 11 already exists	OK	
OK	OK		OK	

If we check the data in PDS002 we see that the existing operations (with the right date range) has been updated with the changes we made in the Excel sheet, and that we have one new operation number 20.

Facility A01

Product 000100 / 001 test 1

Date / Rev no / Prd strct class

Apply

Sno /	Op /	Fr dt /	Comp no/Wrk ctr	Quantity / Run time	U/M / Qty	Itp / Op description	Itm inh /
0010	0001	220630	MTT-ITM-01	20	EA	A01	
0020	0001	220630	MTT-ITM-02	20	EA	A01	
0030	0001	220630	MTT-ITM-03	20	EA	A01	
0040	0001	220630	MTT-ITM-05	20	EA	A01	
	0001		YGOPE02 **	12.00		Extra work operation 2 Seal	
	0001	210101	YGOPE02 **	1.00		Extra work operation 2 Seal	
0050	0011	220630	MTT-ITM-06	20	EA	A01	
0060	0011	220630	MTT-ITM-07	20	EA	A01	
	0011		YGOPE02 **	12.00		Extra work operation 2 Seal	
	0011	210101	YGOPE02 **	1.00		Extra work operation 2 Seal	
	0020	210101	YGOPE03 **	14.00		Extra work operation 3 artwrk	

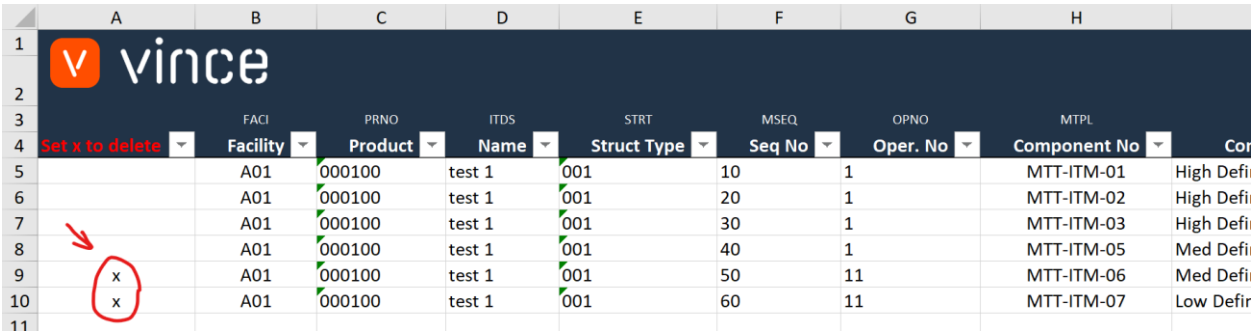
7.7 Delete Component from Excel to M3

Run this task if you want to delete PDS002 component data in M3 from the excel tab "Component".

As you can see from the screen dump below:

- Row number 9 and 10 are marked with a lower-case x in column A "Set x to delete"

By doing this, these two lines will be deleted in PDS002 when this Excel file is imported.



	A	B	C	D	E	F	G	H	
1	vince								
2									
3		FACI	PRNO	ITDS	STRT	MSEQ	OPNO	MTPL	
4	Set x to delete	Facility	Product	Name	Struct Type	Seq No	Oper. No	Component No	Cor
5		A01	000100	test 1	001	10	1	MTT-ITM-01	High Defi
6		A01	000100	test 1	001	20	1	MTT-ITM-02	High Defi
7		A01	000100	test 1	001	30	1	MTT-ITM-03	High Defi
8		A01	000100	test 1	001	40	1	MTT-ITM-05	Med Defi
9	x	A01	000100	test 1	001	50	11	MTT-ITM-06	Med Defi
10	x	A01	000100	test 1	001	60	11	MTT-ITM-07	Low Defir
11									

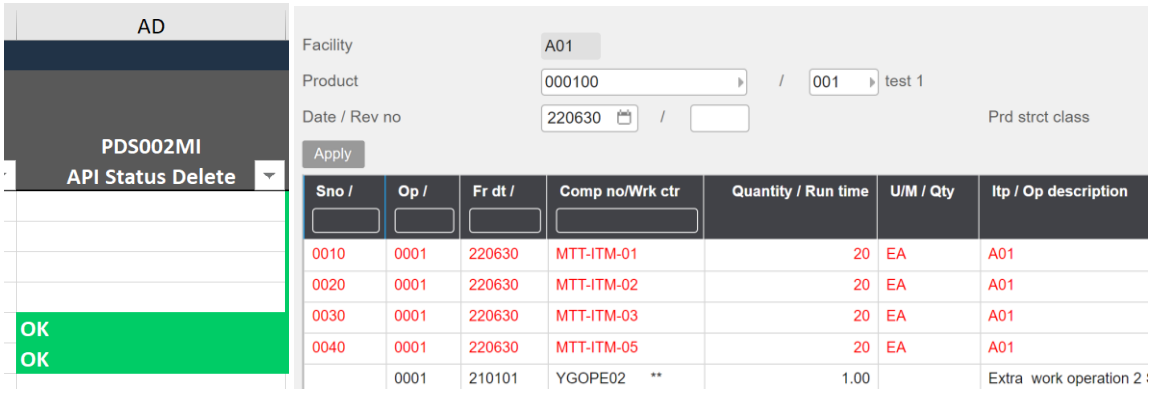
Now it's time to delete these rows in PDS002.

- Make sure that the edited Excel file is saved and closed.
- Click the button "Delete Components" and select the excel file you want to import.

When the delete is done the Excel file will open.

Scroll all the way to the right in the spread sheet to look at the API responses.

- Column AD, "API Status Delete" is OK for the two rows marked for deletion which means that this deletion was successful.
- The components are also deleted in PDS002 in M3.



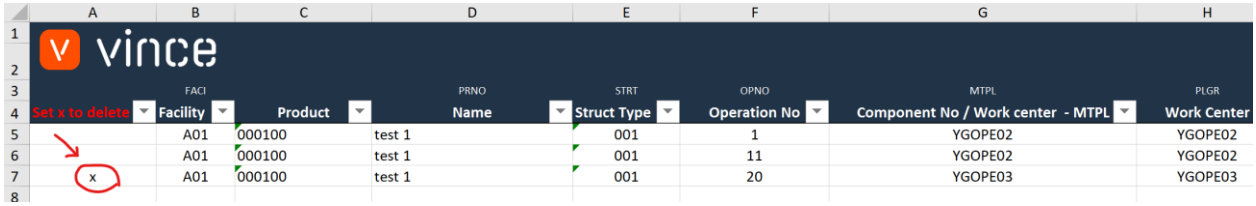
7.8 Delete Operation from Excel to M3

Run this task if you want to delete PDS002 Operation data in M3 from the excel tab "Operation".

As you can see from the screen dump below:

- Row number 7 is marked with a lower case x in column A "Set x to delete"

By doing this, this line will be deleted in PDS002 when this Excel file is imported.



Now it's time to delete the operation in PDS002.

- Make sure that the edited Excel file is saved and closed.
- Click the button "Delete Operations" and select the excel file you want to import.

When the delete is done the Excel file will open up.

Scroll all the way to the right in the spread sheet to look at the API responses.

- Column AD, "API Status Delete" is OK for the row marked for deletion which means that this deletion was successful.
- The operation is also deleted in M3.