



# TEMPLATES BASED DATA LOADING MAP & UPLOAD UTILITY (MUU) LN CE

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# 1 INTRODUCTION

## 1.1 Purpose of this Document

This document is a reference guide for uploading data to LN CE, based on pre-defined data templates.

This tool is used by Infor ICS to upload data to LN CE. If ICS require support or help to extend the tool or data template, Infor Global Delivery Services (GDS) need to be engaged. You can drop a mail to [MUU Support](#)

**Map & Upload Utility (MUU)**, which has the following features:

- Rich set of pre-defined data templates for high volume master data like Products/Items, Customers, Suppliers, Bill of Materials, etc.... And for open transactions like Opening Stock, Account Receivables etc. That can be readily used as a starting point to collect data or data workshops.
- Users can easily create new data template or extend existing templates
- Interactive data loading dashboard, using which you can:
  - o Simulate data loading, to check quality of data, without actually uploading to LN
  - o Track all data upload run for a specific data template
  - o Transcode or Re-code used master data while uploading. For example, you might have standardized your UoM, while uploading item, the old UoMs can be replaced with new codes. You can also do this part of your data preparation step (extraction, cleanse, and enrich)
  - o No need to pre-generate any LN specific number like, Text Numbers, Business Partner Codes, Purchase Order Number, etc.... The tool keeps tracks of the LN specific numbers. For example, while creating Suppliers, the tools stores the mapping between, legacy supplier code to LN generated BP code. And while uploading account payables, or purchase orders, items etc. these mappings are used to retrieve the correct BP.
  - o ...much more

This tool is **NOT** supported via <https://www.inforxtreme.com/> .

For support you can drop a mail to [MUU Support](#)

The following topics are covered in this document:

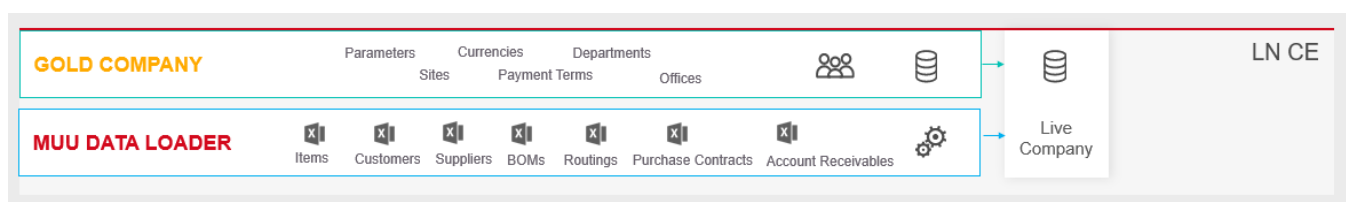
- Where to get MUU and How to install in a LN CE Tenant
- Work instructions highlighting how to design data template, and upload data
- Explanation of open transaction templates, and upload process.

## 1.2 MUU Process Architecture

MUU follows two simple step process to upload data to LN:

- (1) All Reference/Setup/Static data is maintained in a separate company named ‘Gold Company’. It is maintained manually or by standard excel import. Done mostly by key users assisted by functional consultants
- (2) All high-volume dynamic master data as well as open transactions are uploaded using MUU data loader. Predefined data templates are designed during data workshops, from Reference Data templates that comes with MUU. Data is prepared in these templates and uploaded to LN.

The below diagram explains the above process concisely:



### 1.3 Technical Architecture

MUU is developed as an extension in LN CE. Since MUU works within LN CE it has access to latest data catalog, online documentation, and standard and custom business logic. So, it is easier for users to create/extend data template, and while uploading the data goes through the standard and custom business logic layer, ensuring the data quality.

Since it is developed as a extension, in 'TX' package; the monthly upgrades will not impact the working of MUU.

MUU has mainly two modules:

- **Data template Designer:** Using which you can create pre-defined data capturing templates. By defaults MUU comes with reference templates, for frequently migrated master and open transaction entities.
- **Data Loader:** Once the data is filled in the above templates, uploader can load data sheets to LN.

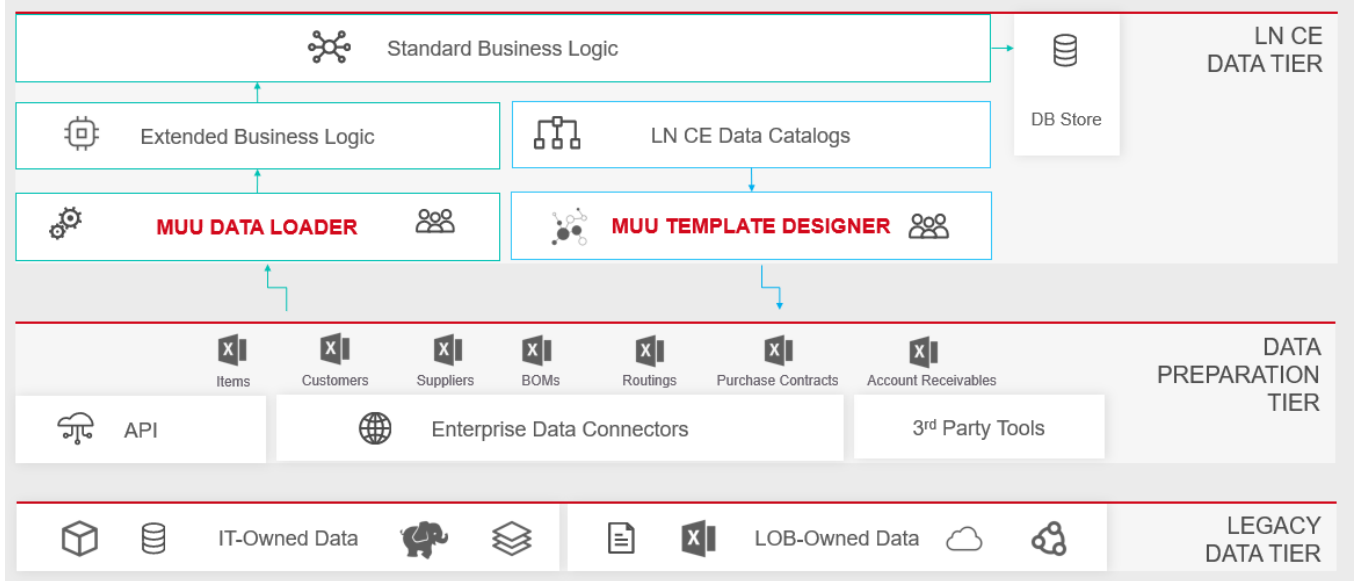
Uploader can work in two modes:

- (1) **Simulate Mode**, here data is not get stored in db, but all checks in the Business Logic layer get executed, so that you get all the errors in data prior loading to LN.
- (2) **Actual Mode**, here valid data get saved to the db. The rejected records are stored in a separate file. Also, for each rejected record, the reason for rejection is stored in a separate log file.

Data Loader keeps track of all data uploads for a specific data template for future analysis and auditing.

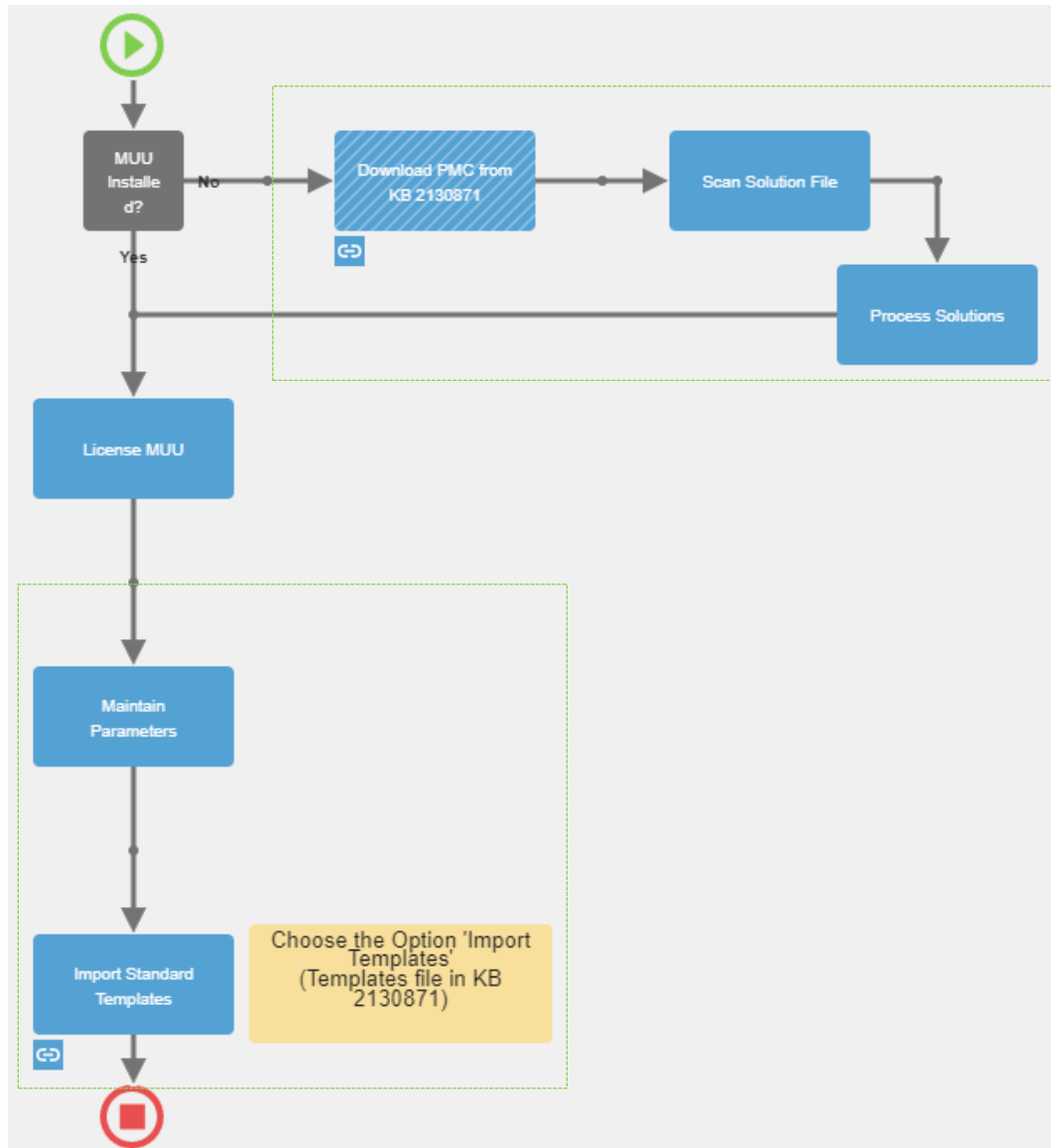
MUU expects the data to be prepared in pre-defined excel templates. The data extraction, and cleansing should be done by customer IT. In case existing legacy system, is a predecessor of LN, Infor GDS can extract and cleanse the data in MUU templates.

The below diagram explains the various tiers or steps in a data upload process and where MUU sits.



## 2 INSTALLING AND LICENSING MUU

The below process flow explains how to download the MUU solution, install, license, and get the Reference Templates



### 2.1 Installing MUU

The details of installing MUU can be found the below sections

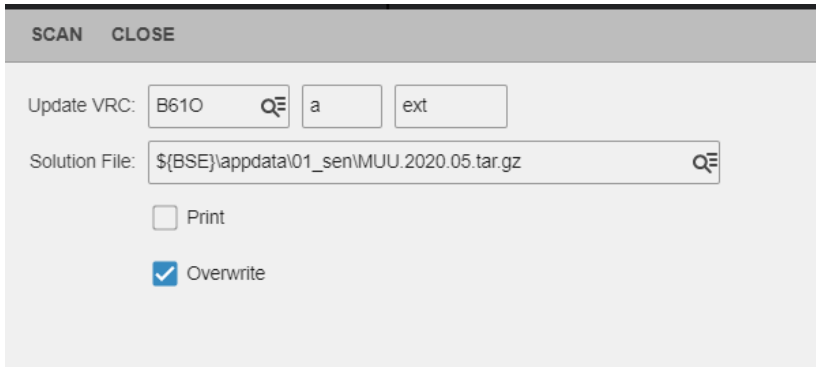
#### 2.1.1 DOWNLOAD PMC

MUU is delivered as a PMC solution and it can be downloaded from [KB 2130871](#). The solution is named as **MUU-yyyy-mm**. For example, **MUU-2020-05**. This is PMC collection, and can contain individual PMC solutions.

Once you download the PMC solution file, you need to upload, the solution file, to LN CE tenant. If you have multiple tenants, you need to copy the solution file to respective tenants.

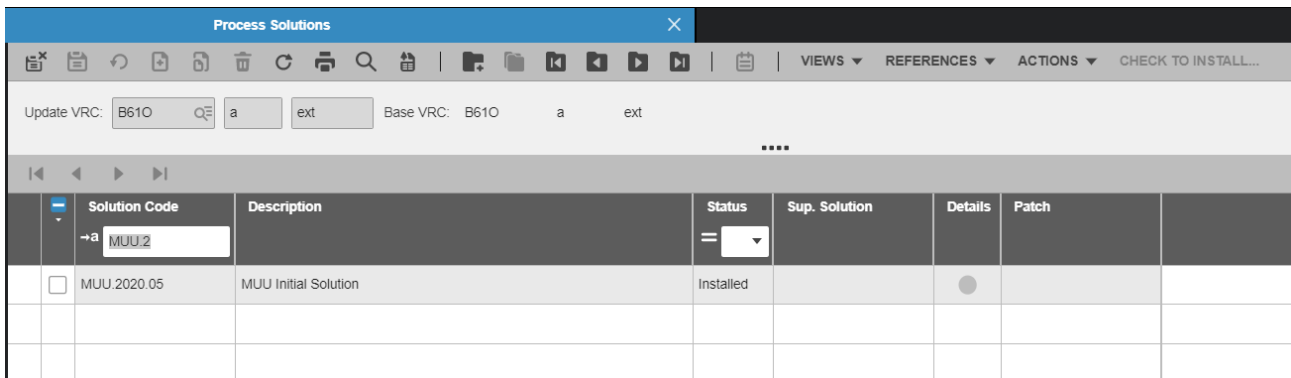
### 2.1.2 SCAN THE PMC

Once the solution file is copied to tenant, you should able to scan the file, by starting session **Scan Solution/Patch File (ttpmc2200s000)**. This session can be directly started using 'Run Program' or Tools → Software Installation → Miscellaneous → Operational → Scan Solution/Patch file.



### 2.1.3 INSTALL THE PMC

Once the solution file scanned, you can view the solutions in session **Process Solutions (ttpmc2101m000)**. This session can be directly started using 'Run Program' or Tools → Software Installation → Miscellaneous → Operational → Process Solutions. The status of the scanned solutions is "Available", you can select these solutions and use the option, Check and Install solutions. Or you can first 'Check to Install...' to understand the impact of the solution, and then you can install.



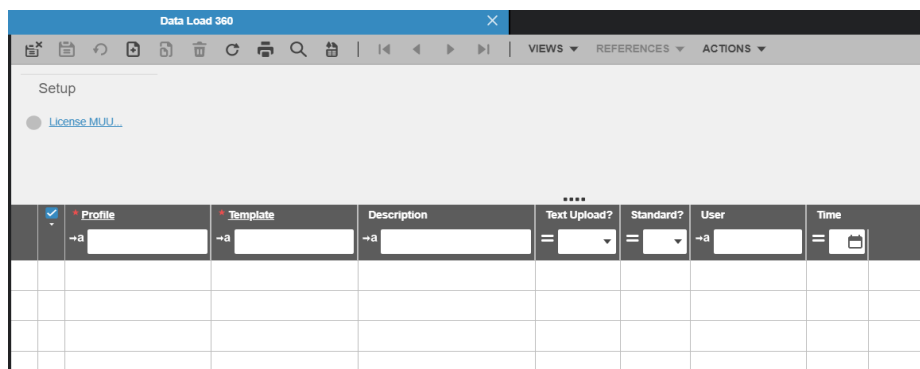
To know more about how PMC solutions get installed, you can refer to: [PMC Recipient Guide](#)

**Note:** If the post installation steps, has 'Convert to Runtime Data Dictionary (ttadv5215m000)', make sure you take the system to 'Admin Only' mode, then do the convert to runtime, and then you can bring the system online.

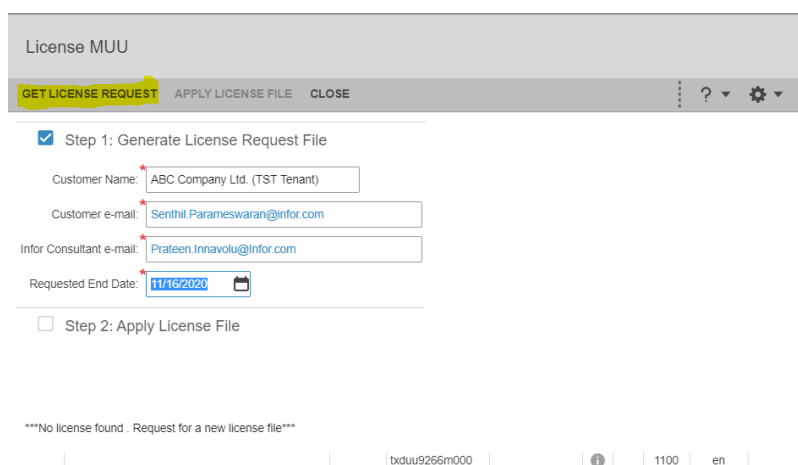
Also, if you are installing MUU freshly, then you need to create the tables (ttaad4230m000), for 'tx' package in the working companies.

## 2.2 Licensing MUU

Once you MUU is installed, you should able to start the Data Load 360 (txduu9167m100), using this dashboard you can do all the actions of MUU. When you start DL360 for the first time, you can see only one option, "License MUU..."



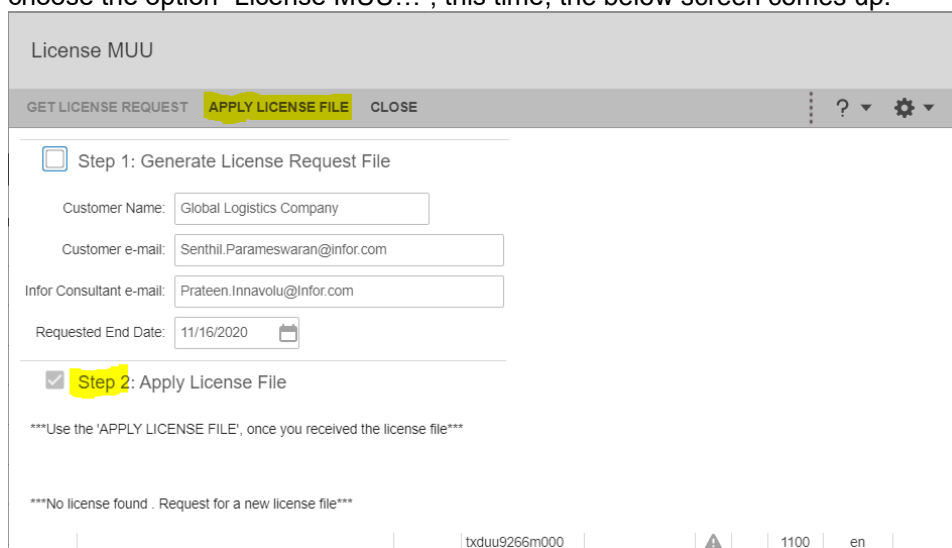
Choose the option “License MUU...”, this pops up the license request form, there you can enter the required details and download the license request.



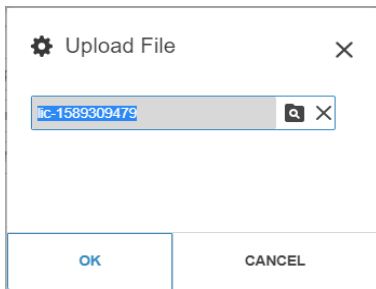
Make sure you have entered all details properly, and when you choose option ‘GET LINCENSE REQUEST’, you get “*lic.req*” file. Sent this file to [MUU Support](#). [The license is issued only to Infor ICS consultants.](#)

**Note:** When you are re-applying for an expired license, the above details get populated automatically. Make sure you enter the new ‘Requested End Date’ correctly.

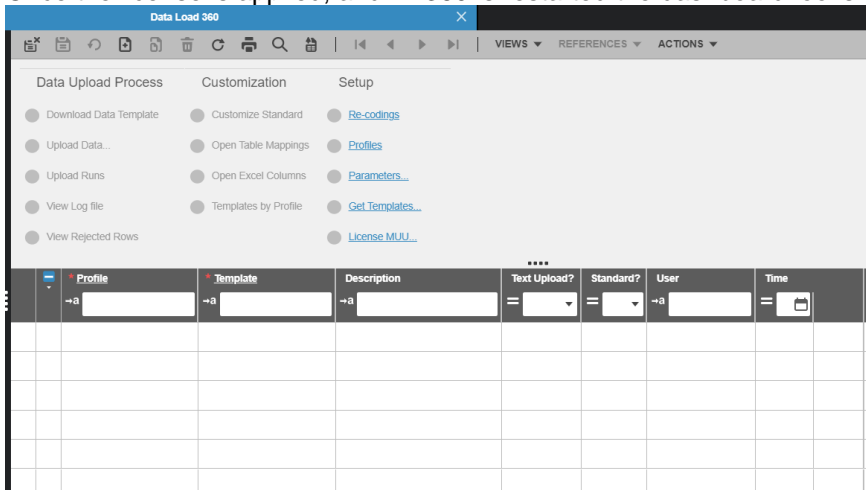
Mostly within a day, you receive back the license file, it will be named like “*lic-1589309479*”. You can again choose the option “License MUU...”, this time, the below screen comes up:



When you choose the option “**APPLY LICENSE FILE**”, you can upload the received license file.



Once the license is applied, and DL360 is restarted the dashboard looks like below:



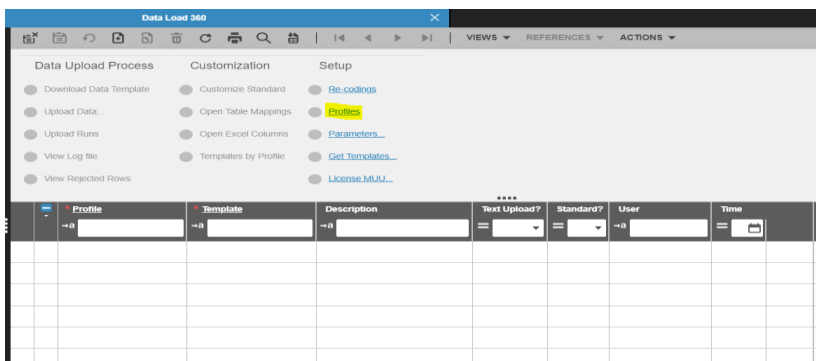
**Note:** You can check the license validity anytime using the 'License MUU...' option.

## 2.3 Importing Reference Templates

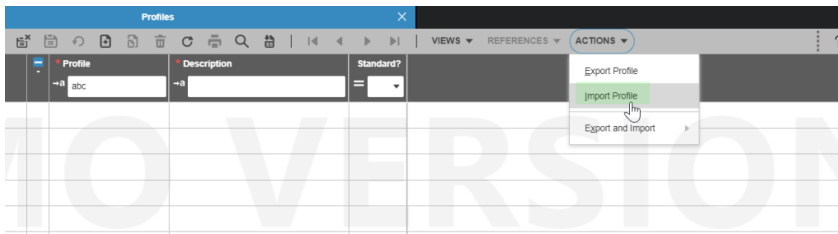
MUU comes with pre-defined data templates for entities that usually get uploaded in a data migration project. These templates can be easily extended, by implementation team, themselves. In case you need support, please send a mail to [MUU Support](#).

Follow the below steps to import the 'Reference Templates' to your installation.

- (1) Download the '[MUU\\_LN\\_CE\\_Reference\\_Templates.txt](#)' from [KB 2130871](#)
- (2) From the DL360, choose the option 'Profiles' under Setup.



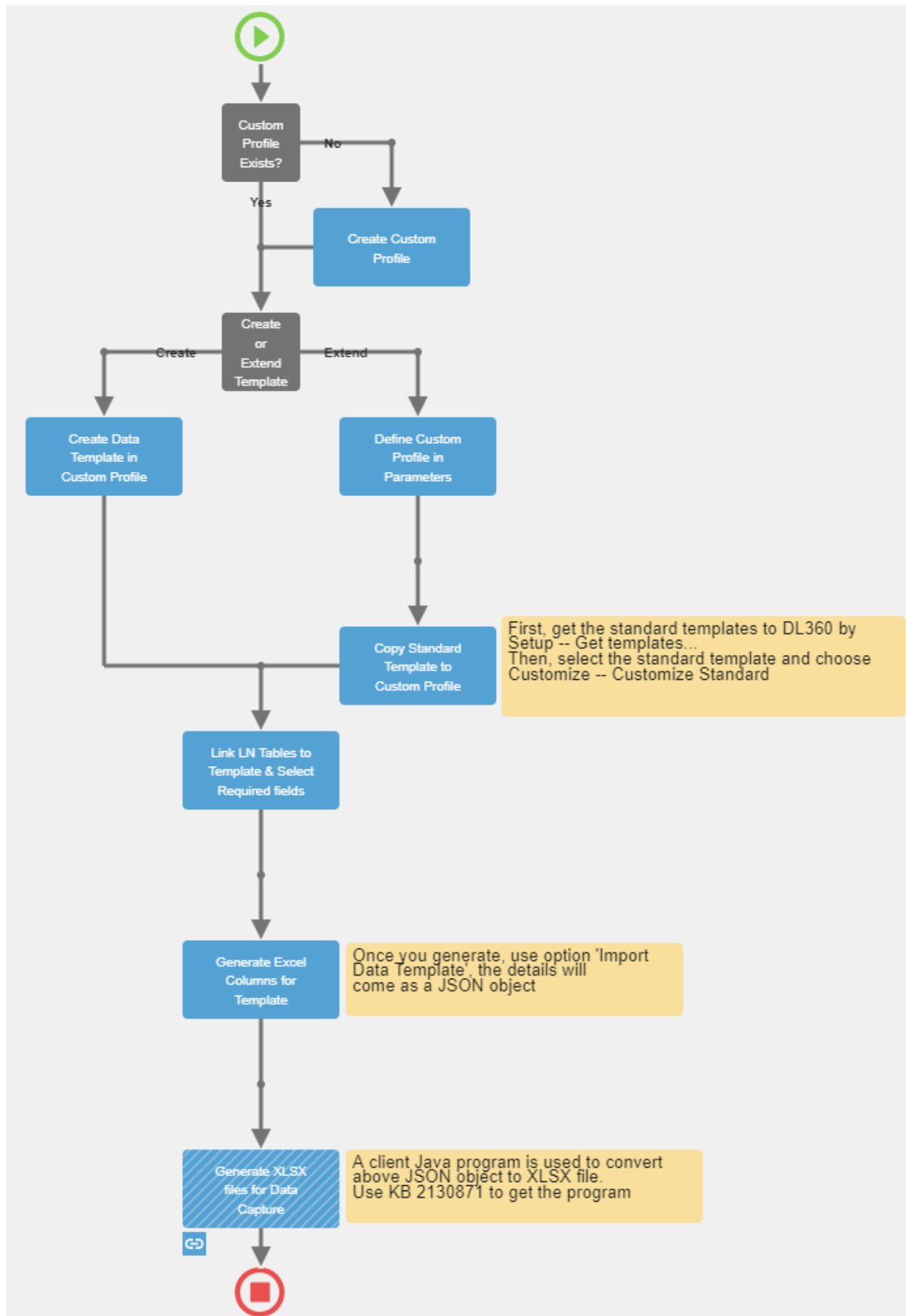
- (3) Once the Profiles session is started, choose the option 'Import Profile'



(4) You can upload the file, that you have downloaded in step (1)

### 3 DESIGN DATA TEMPLATES – WORK INSTRUCTIONS

The below process explains how to extend a standard template or create a new data capturing template.



### 3.1 Extend a Standard Template

MUU comes with a set of reference templates. These reference templates contain important data attributes in the respective entities, but not all fields. The DAL calculates default values for the non-included fields, during data upload. For example, while upload loading Items/Products, if a field is not present in the template, DAL uses the Item Group – Item Type defaults setup to default values for the not included fields.

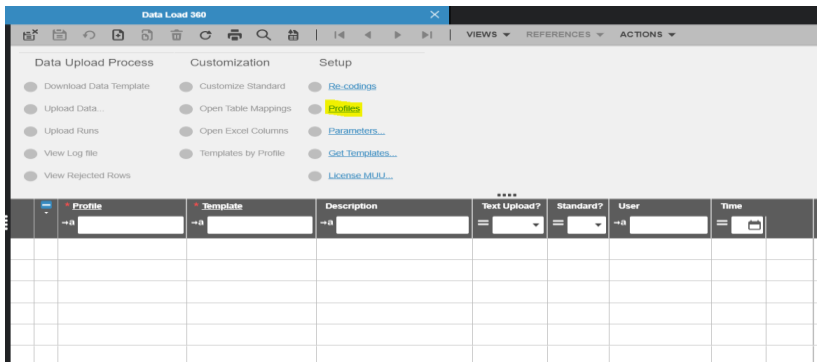
But if you want to change/extend the data capturing templates, for example you want to set “Revision Controlled?” for an item via the template, in this case you need to add this column in the data mapping template.

To add more fields to existing reference templates, follow the below sections.

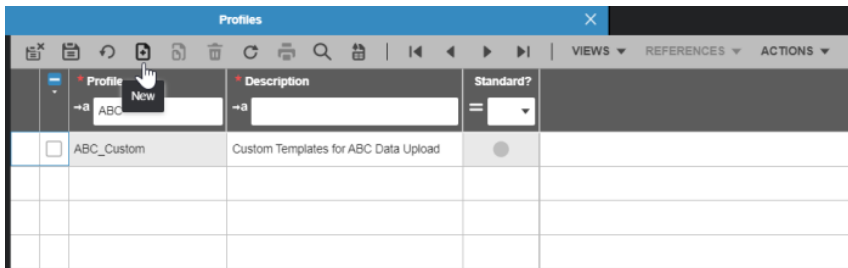
#### 3.1.1 CREATE CUSTOM PROFILE

The reference templates are shipped as part of a standard profile. A profile groups a list of templates. It is not possible to modify reference templates present in standard profile.

- (1) From the DL360, choose the option ‘Profiles’ under Setup.



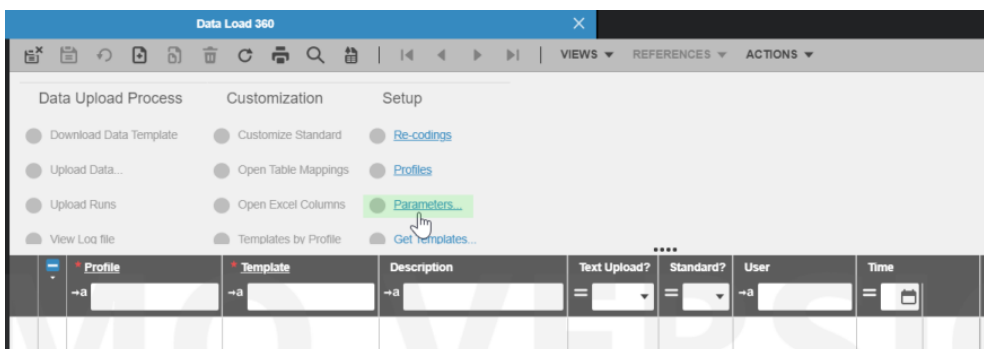
- (2) The Profiles (txbof1100m000) session get opened. Here you can use the New option to create a custom profile. Say you are working on data upload for customer “ABC”, you can name the profile as “ABC\_Custom”.



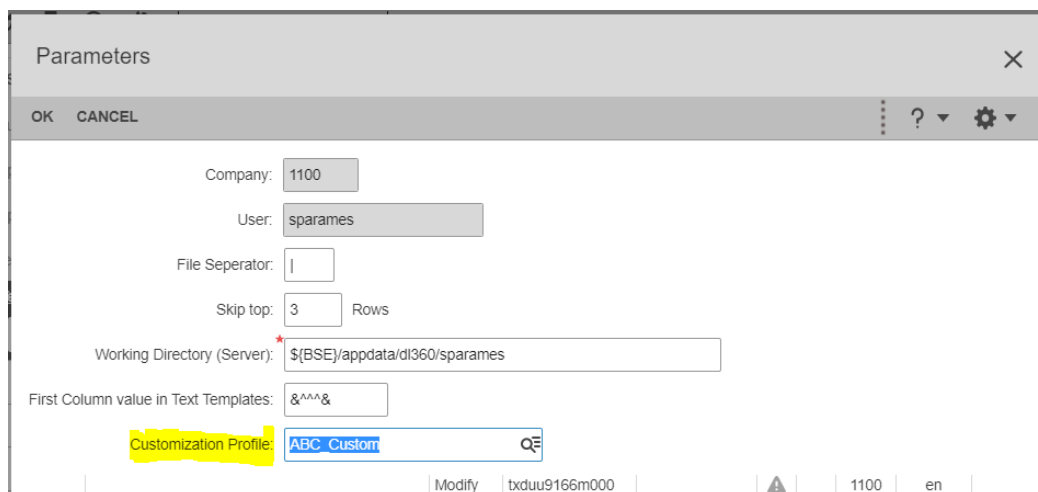
#### 3.1.2 DEFINE CUSTOM PROFILE IN PARAMETERS

In MUU the parameter is defined per user. So, each user should maintain the custom profile, in the parameter.

- (3) From the DL360, choose the option ‘Parameters’ under Setup.



- (4) The Parameter session (txduu9166m000) opens



Here you should specify the custom profile created in Step (2)

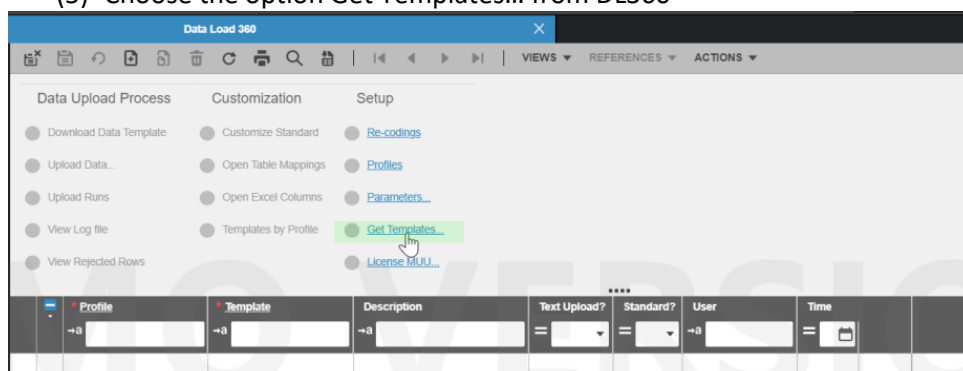
Rest of the fields, you can accept the default values. These values are explained in the below table:

Field	Description
File Separator	Separator character used in delimited data file.
Skip top [n] rows	Specify the number of rows in your data templates, that hold header information. When the file is read, the first 3 rows are skipped, in this case
Working Directory (Server)	This is the directory in the server where data files, log files, rejected rows get stored. A directory per user is created, so that each user's data get stored separately in the server.
First column value in Text Templates	In case of 'Text' templates. The first column should be unique pattern, using this pattern the parser knows the occurrence of a new row in the file. Text data can contain new line characters, so one record in the file can span across multiple lines.
Customization Profile	For each customer, it is better to create a custom profile, to extended or create data template.

### 3.1.3 GET STANDARD TEMPLATES TO DASHBOARD

During step 2.3, you have imported, the reference templates to MUU. Now you can bring these templates to DL360.

(5) Choose the option Get Templates... from DL360

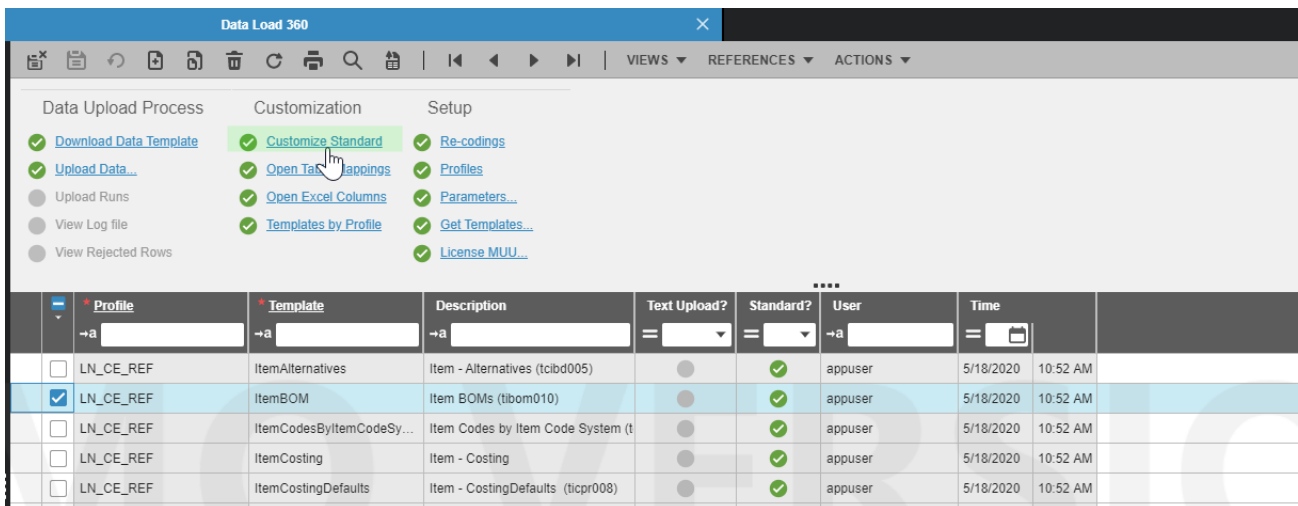


(6) The above action pops up the below screen, where you can select the standard profile, and choose option 'Import'.

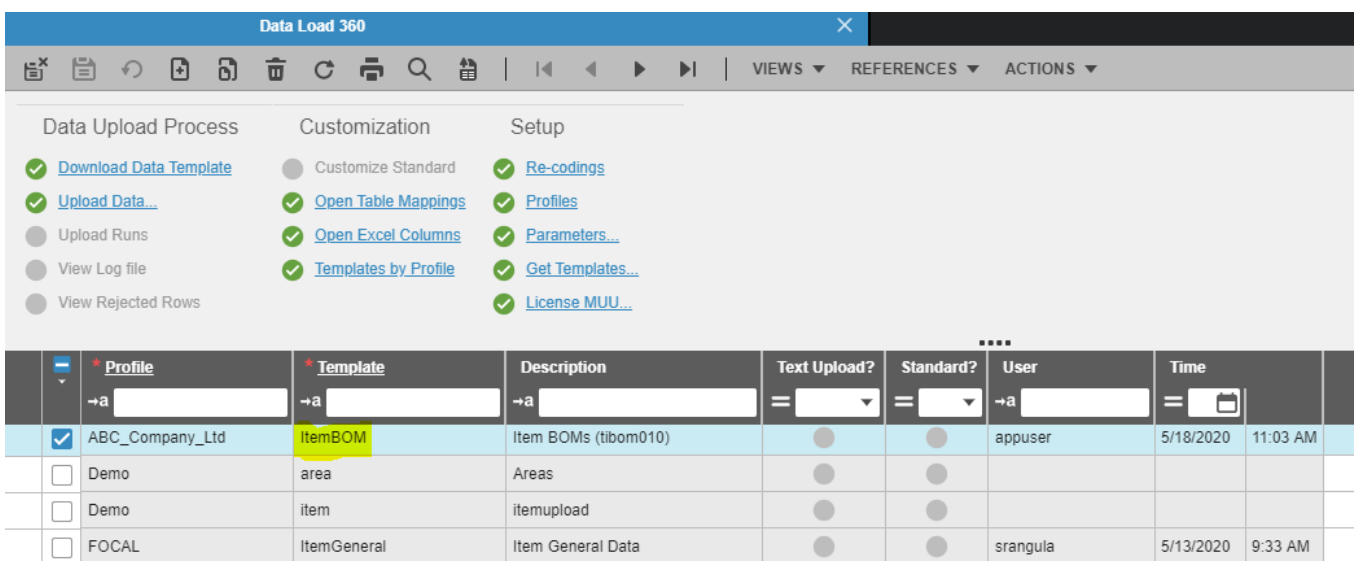


### 3.1.4 COPY STANDARD TEMPLATE TO CUSTOM TEMPLATE

Now you can select the template you like to customize and choose the option 'Customize Standard'



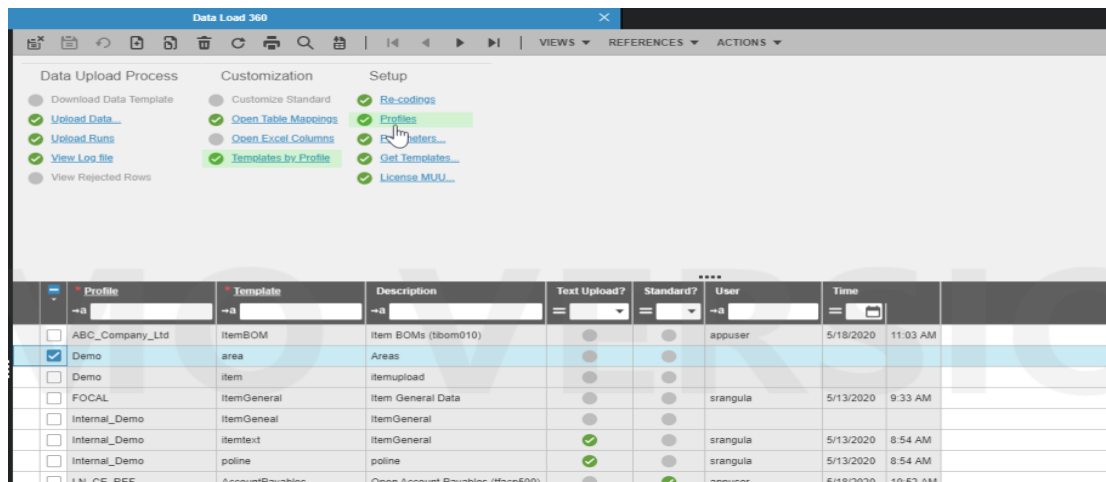
Now the selected reference template is available in the custom profile you have defined in parameters.



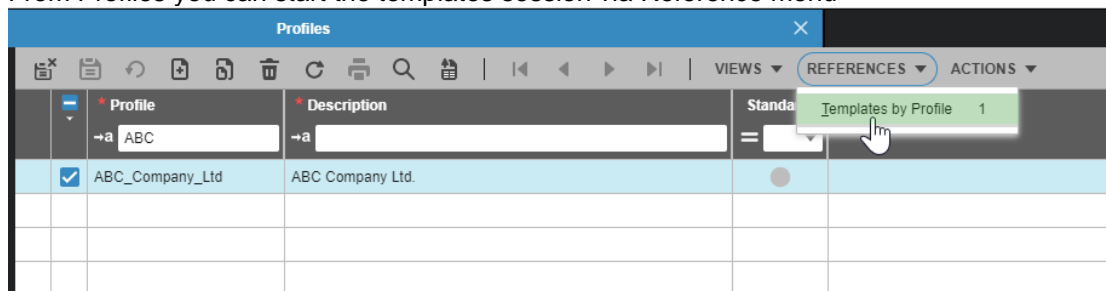
To know more about how to add new fields to templates and generate excel templates, refer sections 3.3 and 3.4

### 3.2 Create a New Template

In custom profiles, you can create your own templates. From DL360, you can start the Templates by Profile (txbof1110m000) session. You can first start 'Profiles' and from there you can go to Templates, or if you select a custom template in DL360 (Standard = No), you can directly go to the templates in the respective profile.



From Profiles you can start the templates session via Reference menu



The following information need to be specified at template level. Most of the information is defaulted when you create the template. More information about these fields are found in the below table:

Template	Description	Date Format	Number of Columns	Maximum Column Length	Loading DII	Text Upload?
ItemBOM	Item BOMs (tibom010)	YYYYMMDD hh:mm:ss	11	70	txduudldiftu	<input type="checkbox"/>

Field	Description
Template	Name of the template. It is advisable to create template name without spaces.
Description	Description of the templates. Here you can add the LN table code it populates; in case you like to search template on table code.
Date & Time format	In case the template contains data or time values, you should specify the format in which the values are coming. Time should be in 24 hr format.

Here you can specify, what is the maximum size of your data value. This is for efficient memory management. The value 70 is good to go. Currently we don't have LN attributes that is more than 70 characters.

Maximum Value length

**Note:** For Text template, this value is ignored. The text can be of any length.

The is the loading routine using to load the data. By default, "txduudlldftu". 99% of time this default loading routine suffice your requirement. Only in very specialized cases you may require writing your own. This dll updates, if data is already present, else it will create the data.

Loading Dll

If you are uploading 'text' data then, you can select this flag. Text is uploaded after you have created the main entity. For example, before uploading Item Text you should upload Items.

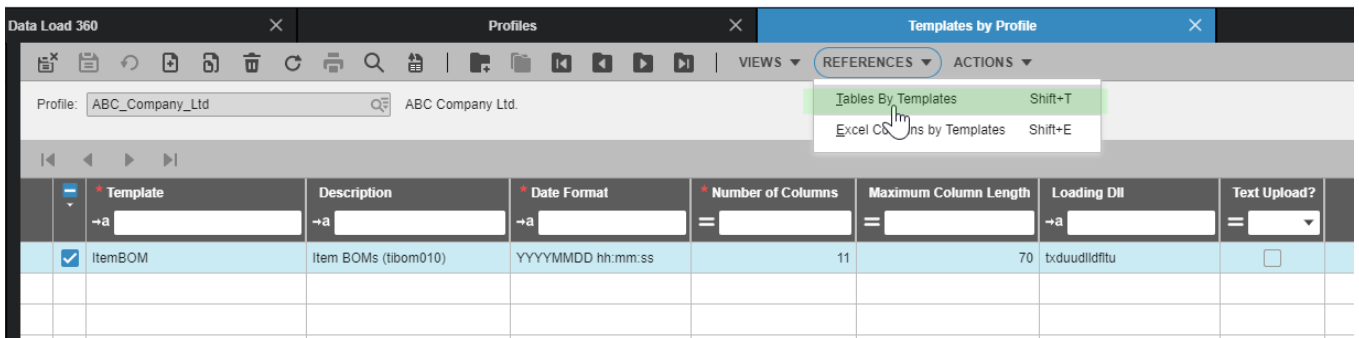
Text Upload?

### 3.3 Link & Map LN tables

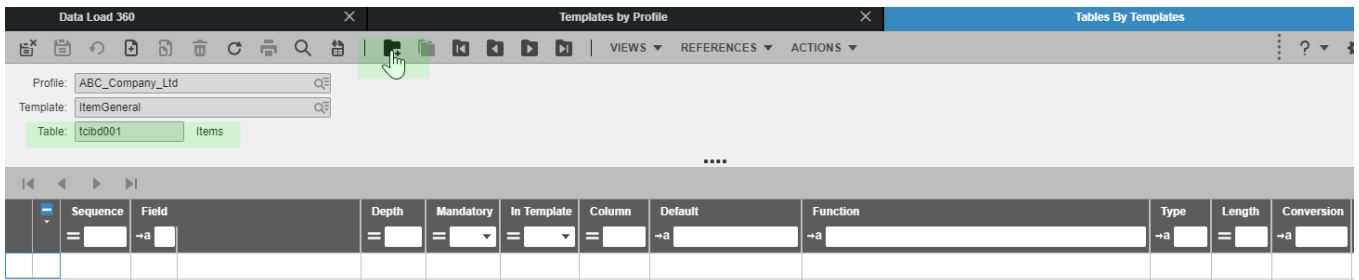
In this step you can define the below information:

- (1) Define LN tables to which the current template uploads data.
- (2) Select fields you want to be part of the template.
- (3) Define default value to specific fields
- (4) Apply data formatting, lookup, etc. functions to fields. The excel columns are input to these functions. Also, you can pass constant values. The constant values as argument should be prefixed with "C\_". Say, you want to pass **ABC**, to a function you should pass as **C\_ABC**.

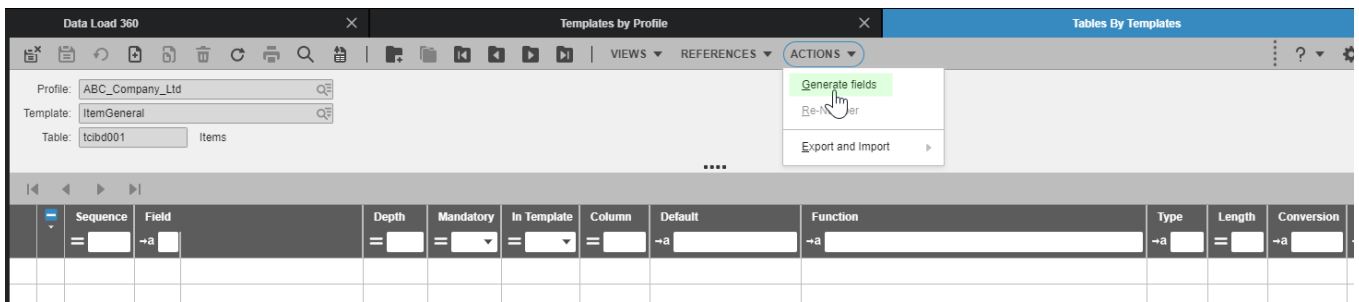
(1) From templates screen you can start the **Tables by Template (txbof1120m000)**.



(2) Define LN tables that is part of this template. Use the "New View" option and define the tables you like to add



(3) Using the "Generate fields" option, you can retrieve the fields in the defined tables



- (4) Once the fields are retrieved you can choose what fields you want to be part of the template, by select the “In Template” flag. By doing so the excel column also get mapped to that field automatically.
- You can also give a “Default” value to a field
  - Also, you can apply custom functions to a field. The custom function should be present in “*txduudlldal2*”. This dll has most of the frequently used formatting functions. The source code of this dll is delivered as part of the solution. You can also add your own custom functions.

For example, refer the picture below:

The screenshot shows a detailed table of field configurations in the 'Data Load 360' application. The table has columns: Sequence, Field, Depth, Mandatory, In Template, Column, Default, Function, Type, Length, Conversion, Alignment, Key?, Domain, In RDD. The 'In Template' column has checkboxes, and the 'Default' column has values like '00001'. The 'Function' column has values like 'GetItem(1)'. The 'Type' column has values like 'str', 'um', 'eum'. The 'Length' column has values like 47, 120, 64, 8, 22, 0, 9, 0, 6, 3, 6, 0, 0. The 'Conversion' column has values like 'n', 'l', 'u', 'n', 'n', 'n', 'u', 'n', 'n', 'n', 'n', 'n', 'n'. The 'Alignment' column has values like 'n', 'l', 'l', 'l', 'n', 'n', 'l', 'n', 'n', 'n', 'n', 'n', 'n'. The 'Key?' column has checkboxes. The 'Domain' column has values like 'tctitem', 'tcdsca', 'tcseak', 'tcseak', 'tcaxin', 'tcimag', 'tcdale', 'tcdale', 'tcemno', 'tckitm', 'tccitg', 'tclmt', 'tccsys', 'tccuni', 'tcuset', 'tcyesno', 'tcyesno', 'tcbid repl'. The 'In RDD' column has checkboxes.

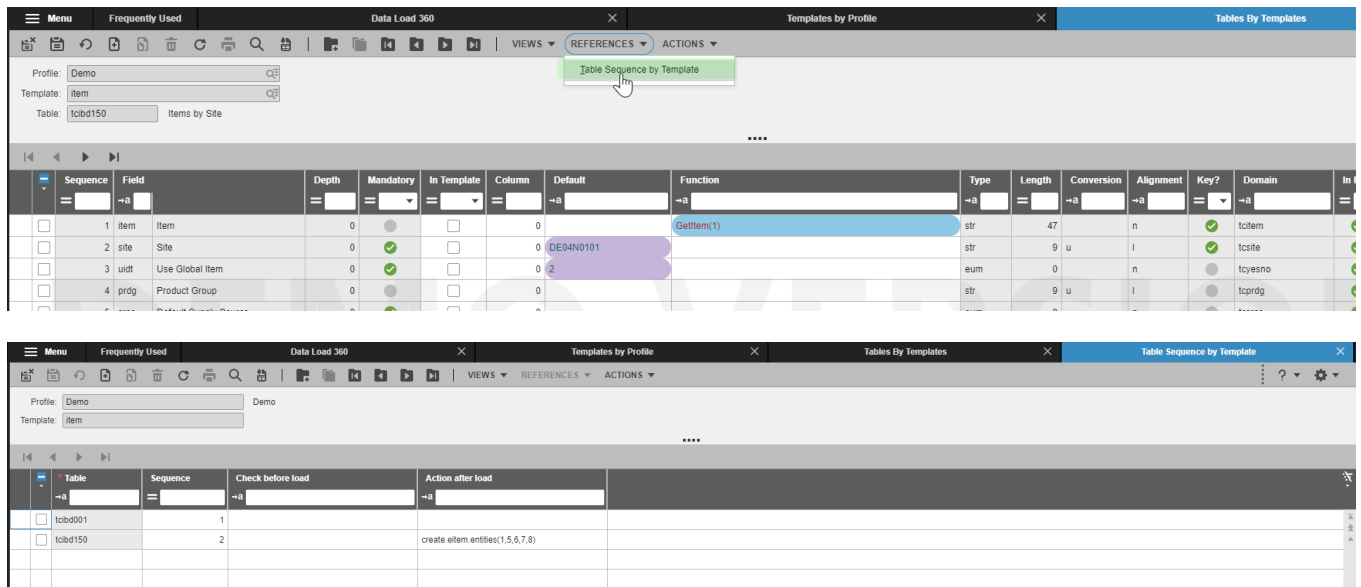
- The above case, when you select **In Template** flag, the columns 1,2,3, 4....7 get generated and mapped to respective fields.
- Field Unit Set, is given a **Default** value “00001”
- Field Item, a formatting **Function** “GetItem(1)” is applied. This function takes value in the first column as input, which is the item code, and returns 9 spaces embedded in front (For Items in LN, first 9 spaces is reserved for Project). For example, if item code is “XYZ”, the function returns “ XYZ”

**Note:** For each field, you can also see details like domain, data type, conversion, alignment, is field part of key. While uploading the data **conversion** {u: Upper case, l: Lower case} and **alignment** {l: Left, c: Center, r: Right} is automatically taken care.

- (5) If multiple tables are linked to a template, the order in which you are adding the tables, is taken as the order in which data get uploaded to these tables. If you want, you can change this loading sequence. Additionally, you can also add a “Pre-condition” and a “Post Action” functions against each table.
- The “Pre-condition” function should return 1 or 0. If it returns “0”, then for that record, the data is not loaded to that table.

- b. The “Post Action” function should return 1 or 0. If it returns “0”, then for that record, the data load for all the tables are rolled back.

The loading sequence session can be opened from the Tables by Template session:



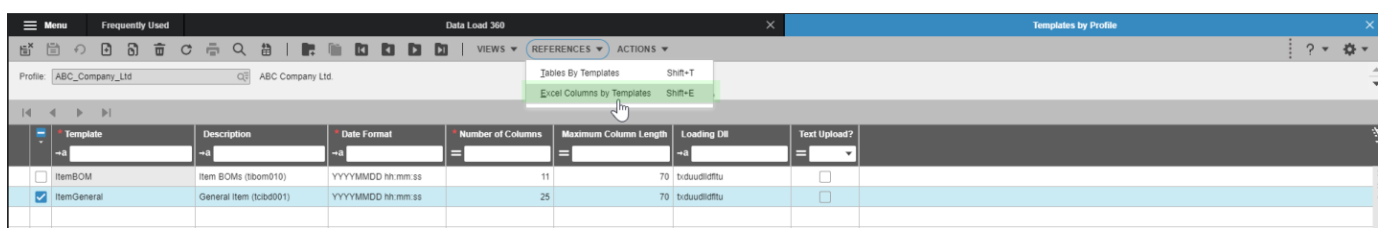
In the above sample, from a file Item General (tcibd001), and Item Ordering (tcibd150) data is created, and if item creation is successful, a function is called to create E-item Revision.

### 3.4 Generate Excel Template

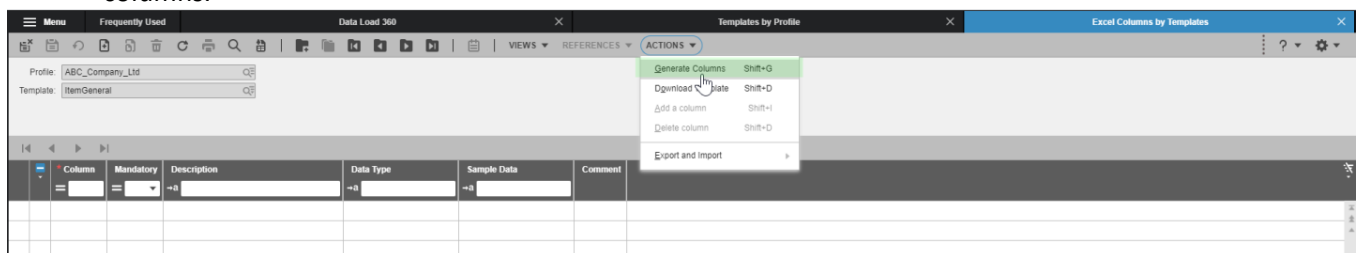
Once you have defined in the mappings in tables by template, the next step is to generate the Excel data template, that can be sent for data capturing.

The Excel Template is just a means to communicate the data attributes we require, with additional help information that aids the data preparation. You can use your own Data Preparation tools and supply the data to MUU in excel or delimited file format.

- (1) From Templates by Profile you can start **Excel Columns by Templates (txbof1130m000)**



- (2) Once the session is opened, you can use the **Action → Generate Columns** to generate the excel columns.



- (3) Once the columns are generated, you can add any information that is helpful for data preparation as comment text. Also, you can maintain some sample data, so that user get an idea how data should look like. By default, enum constants and its description is added in the comment text.

Column	Mandatory	Description	Data Type	Sample Data	Comment
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Item (tcibd001.item)	Alphanumeric - 47	ABC0001	
<input type="checkbox"/>	<input type="checkbox"/>	Description (tcibd001.dsca)	Alphanumeric - 120	Item ABC Description	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Item Type (tcibd001.kitm)	Enumerated	30	✓
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Item Group (tcibd001.citg)	Alphanumeric - 6	FG00010	
<input type="checkbox"/>	<input type="checkbox"/>	Inventory Unit (tcibd001.cuni)	Alphanumeric - 3	pcs	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lot Controlled (tcibd001.ltct)	Enumerated	2	✓
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Serialized (tcibd001.seri)	Enumerated	2	✓

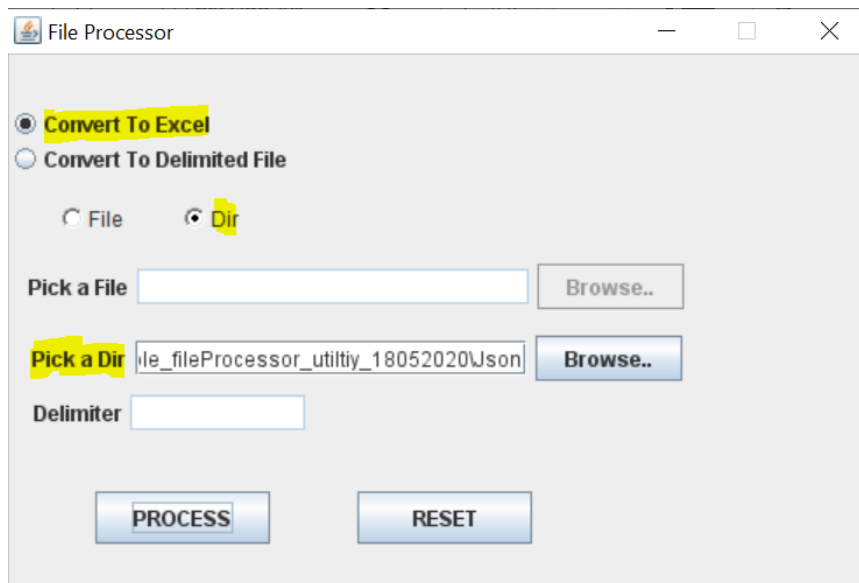
- (4) You can also add additional columns manually, for analysis purpose, in the excel. Once the columns are looking good, you can download the template.

The screenshot shows the application interface with the 'ACTIONS' menu open. The menu items are: 'Generate Columns' (Shift+G), 'Download Template' (Shift+D), 'Add a column' (Shift+I), 'Delete column' (Shift+D), and 'Export and Import'. The 'Download Template' option is highlighted, and a mouse cursor is pointing at it. The table below shows the first two columns of the template.

Column	Mandatory	Description	Data Type	Sample Data	Comment
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Item (tcibd001.item)	Alphanumeric - 47	ABC0001	
<input type="checkbox"/>	<input type="checkbox"/>	Description (tcibd001.dsca)	Alphanumeric - 120	Item ABC Description	

- (5) The template gets downloaded to your machine as “<template>\_<user>.json”. LN CE doesn’t allow custom java program to be executed in cloud! So, user need to convert the json files to excel files manually. You can put all the json files in a directory and give that directory as input. This java program, FileProcessor.jar, can be downloaded from [KB 2130871](#)

You should have JRE1.8 + in your machine, you can double click the FileProcessor.jar file to run the program.



The generated template look like below:

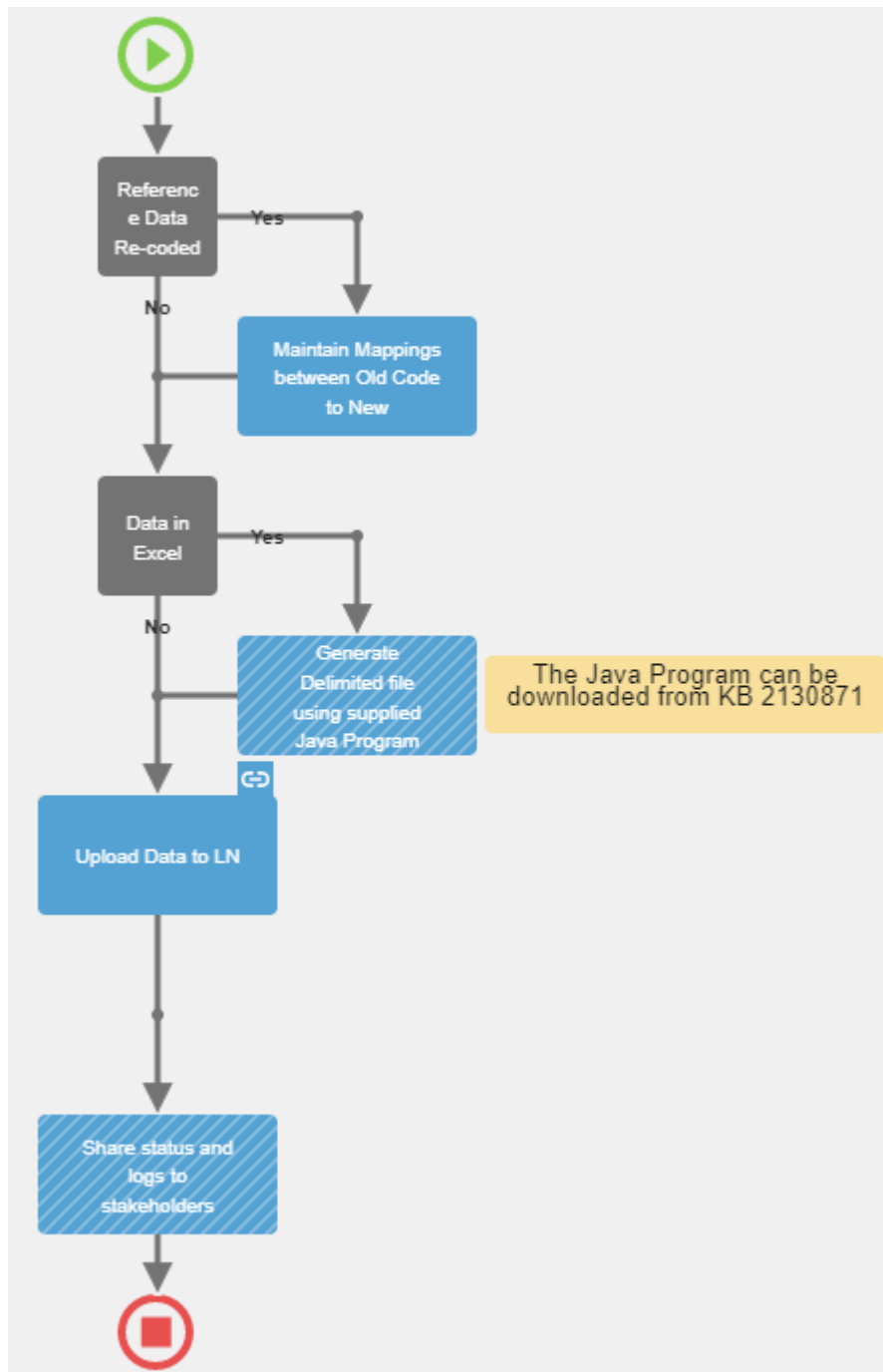
1	2	3	4	5	6	7	8	9
Item (tcibd001.item)*	Description (tcibd001.dsca)	Item Type (tcibd001.kitm)*	Item Group (tcibd001.citg)*	Inventory Unit (tcibd001.cuni)	Lot Controlled (tcibd001.ltct)*	Serialized (tcibd001.seri)*		1: Yes 2: No
Alphanumeric - 47	Alphanumeric - 120	Enumerated	Alphanumeric - 6	Alphanumeric - 3	Enumerated	Enumerated		
ABC0001	Item ABC Description	30	FG00010	pcs	2	2		

- First 3 rows have header information:
  - 1<sup>st</sup> row LN field code and description
  - 2<sup>nd</sup> row data type and allowed length
  - 3<sup>rd</sup> row sample data
- Mandatory columns are marked with \*
- The comment text, comes as comment for each column

**Note:** By default, the enum constants are captured in file, in case the customer wants to put enum description in the file, you need to apply a function convert the enum description to enum constant.

## 4 UPLOAD DATA – WORK INSTRUCTIONS

The below process explains how upload data from excel or delimited file.



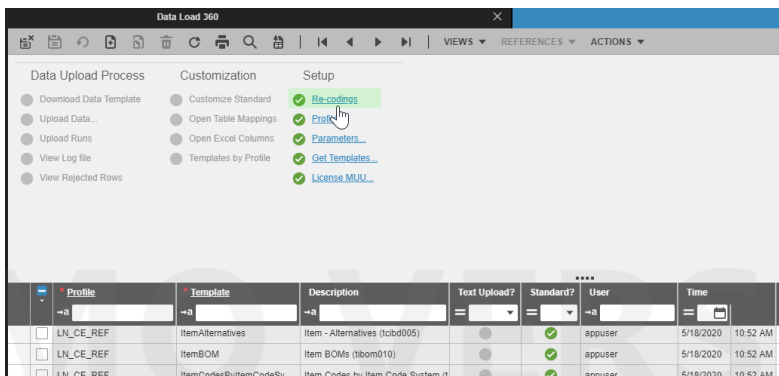
### 4.1 Maintain Mapping from Old Codes to New

Moving to LN CE, you also have an opportunity to standardize your existing master data. Say, in the legacy system, you may have multiple values for UoM, Piece {pcs, PCS, Pcs, stk}, during data upload maybe you like to harmonize all these values to “pcs”. In this case you can create a re-coding code and store the old value to new value mapping against this code.

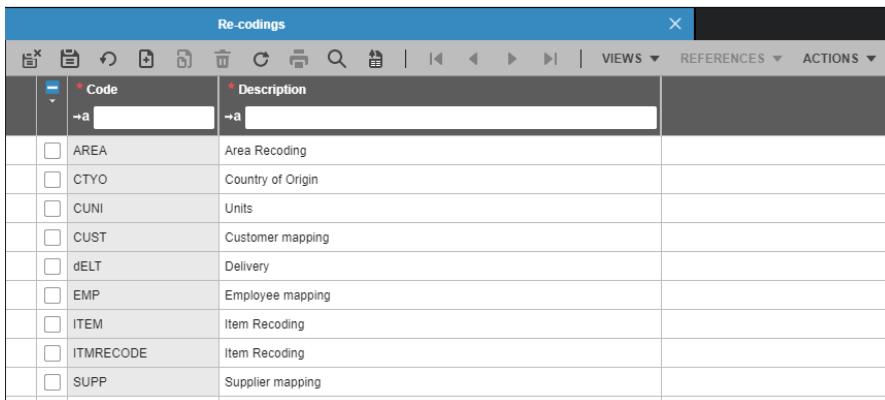
The below sections explain how to create a recoding code and store value mappings against the code.

### 4.1.1 RECODING CODES

You can start the **Re-coding session (txduu9190m000)**, from DL 360



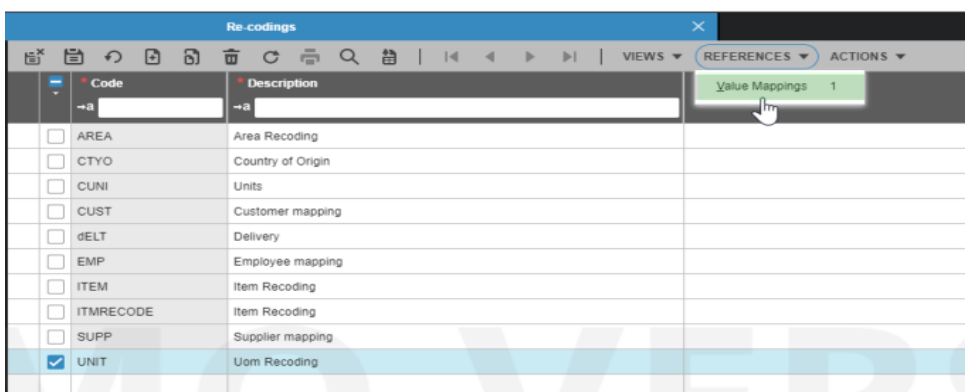
- (1) First you need to create a unique code against which you can store the mapping between old value to new value. For example, for UoM recoding you can create **“UNIT”**, to recode Warehouse, you can create **“CWAR”**.



### 4.1.2 VALUE MAPPING BY RECODING

Once the code is decided for re-coding a specific entity, the next step is to maintain the value mappings.

- (2) Select code for which you like to maintain mappings and choose the option **“Value Mappings”** from Reference.



This starts the below session Value Mappings (txduu9191m000). Here you can maintain the mappings between old value to new value. If you have more values, then you can use the standard excel import functionality.

	Old Value	New Value
	→a <input type="text"/>	→a <input type="text"/>
<input type="checkbox"/>	Pcs	pcs
<input type="checkbox"/>	PCS	pcs
<input type="checkbox"/>	stk	pcs

**Note:** Only for the values that are getting changed, you need to maintain in the above session. For example, say you have a UoM “*cm*”, in your legacy system, and you don’t want to change it, in that case no mapping is required for “*cm*” in the above session.

### 4.1.3 APPLYING RECODING TO ACTUAL TABLE FIELDS.

The final step is to apply these recoding rules to a table field in LN. So that while uploading data, this table is looked up and legacy values get replaced with new values, during upload.

For this you need to apply a function mapping “**GetNval(C\_<code>, <excel column no>)**”

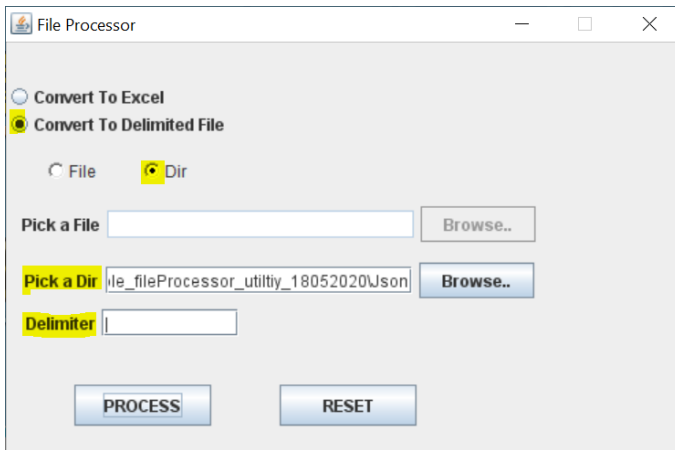
For example, say we have used code “UNIT” to store the UoM recoding values, and legacy value is coming in the 11<sup>th</sup> column in the excel, in this case the function mapping is done as “**GetNval(C\_UNIT, 11)**”

	Sequence	Field	Depth	Mandatory	In Template	Column	Default	Function	Type	Length	Conve
<input type="checkbox"/>	12	itmt List Type	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0			eum	0	
<input type="checkbox"/>	13	osys Order System	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0			eum	0	
<input checked="" type="checkbox"/>	14	cuni Inventory Unit	0	<input type="checkbox"/>	<input type="checkbox"/>	0		getNval(C_UNIT,11)	str	3	
<input type="checkbox"/>	15	uset Unit Set	0	<input type="checkbox"/>	<input type="checkbox"/>	0			str	6	u

## 4.2 Convert Excel to Delimited Data file

MUU uses a Java program to convert the incoming excel files to delimited files, before uploading to LN. LN CE doesn’t allow custom java program to be executed in cloud! So, user need to convert the excel files to delimited files manually. You can put all the excel files in a directory and give that directory as input. This java program, FileProcessor.jar, can be downloaded from [KB 2130871](#)

You should have JRE1.8 + in your machine, you can double click the FileProcessor.jar file to run the program.



In the Delimiter value, you have to enter the character that you have used in MUU Parameters (txduu9166m000). By default MUU uses “|” (pipe) as the delimiter characters.

Once you PROCESS, the excel files are converted to delimited files. The files are UTF-8 encoded. MUU expects UTF-8 encoded files. If your excel file is named, **ItemGeneral.xlsx**, the delimited file name is **ItemGeneral.xlsx.out**.

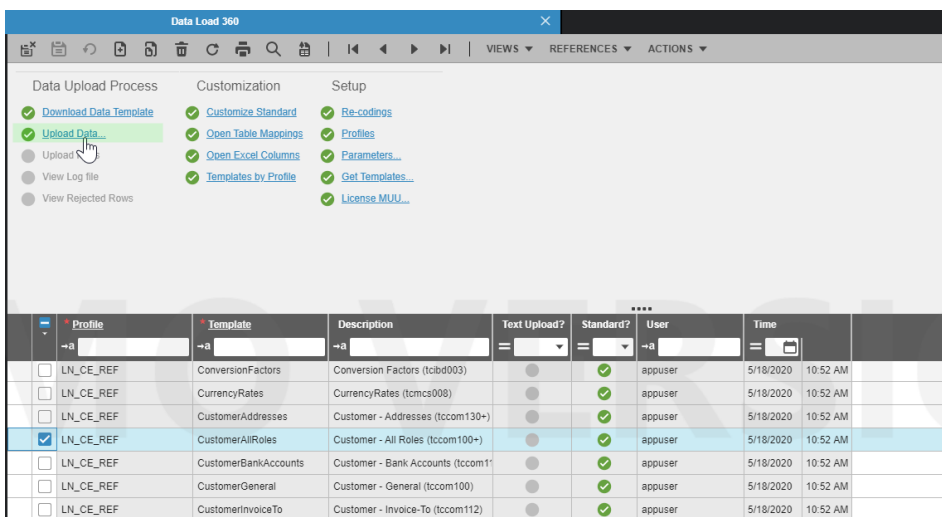
### 4.3 Upload Data

Data can be uploaded, in two modes:

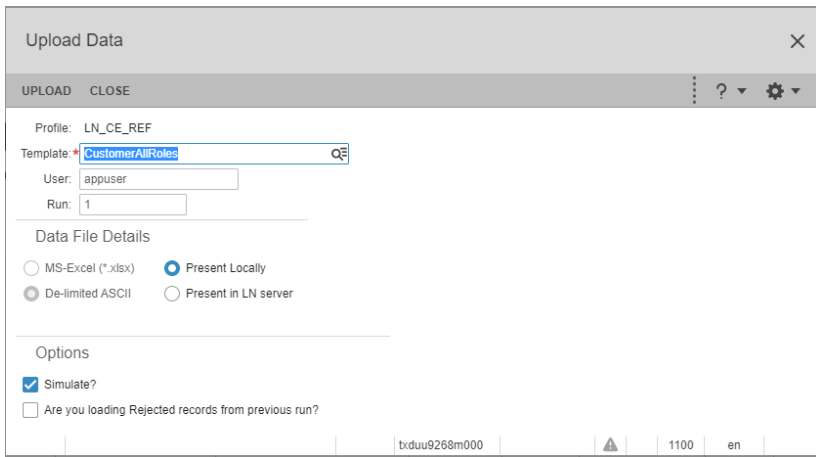
- (1) Interactive: Here user can select a template and upload the data file related to that template.
- (2) Batch: User can group a list of templates as a batch, copy all the file data files LN server, and start the Batch.

#### 4.3.4 INTERACTIVE UPLOAD

You can select the template in DL360 and choose the option “Upload Data...”. If the template is not available in DL360, you can use the “New” button to add the template or choose the option “Get Templates” in DL360.



The upload data session (txduu9268m000) get opened



You can select whether the data file is present locally or in the server. If you choose “Present in LN server”, then you need to enter the file name with path.

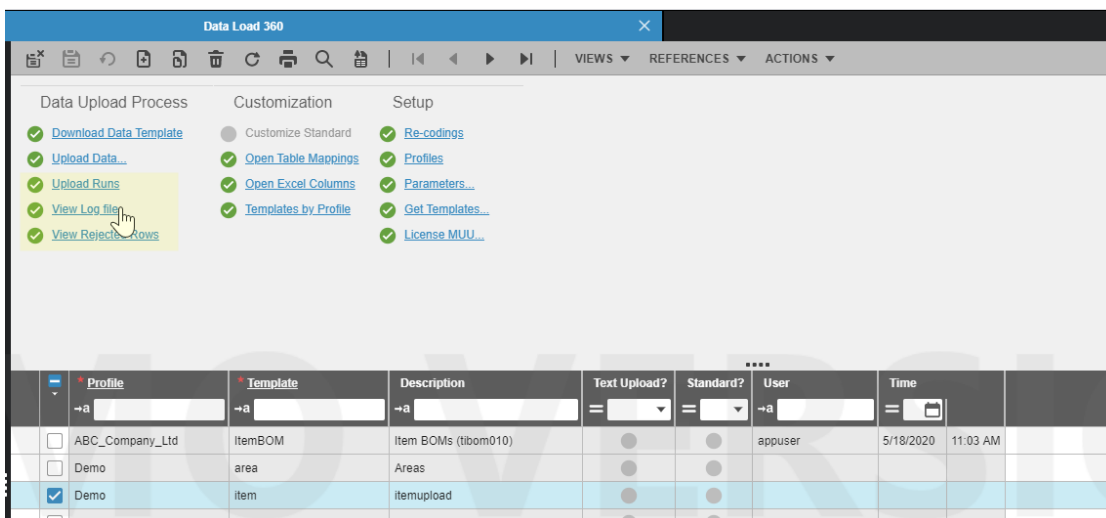
If you choose “Simulate?” as “Yes”, then data load is simulated, i.e., the data is not get stored into the DB, but you can see any issues are there in data. So, it is advisable to use ‘Simulate’ mode when you first upload the file.

If simulate doesn’t give any error, then you can load in actual mode.

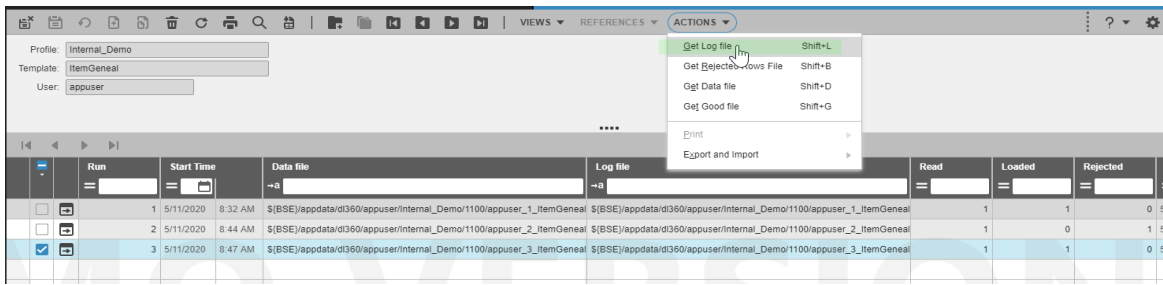
The option “Are you loading Rejected records from previous run?” is applicable only for open transaction upload. Say you are uploading 500 purchase order lines, in the first run, 450 got loaded and 50 got rejected, next time if you are only loading these rejected 50 lines, you can choose this option. In this case, if the purchase order header is already present, it creates the lines under the existing header.

Once the upload is finished, in case of errors, you can view the log file and rejected records, using the respective options in DL360

Also, all the previous upload run details for a template can be found, using the option “**Upload Runs**”



**Note:** The view log file option in DL360 opens the log files in a separate tab in the browser. If you want to download the log file, you can go to ‘Upload Runs’ and download the log file.



A sample log file is attached below:

```

Process started (April 28 2020 02:42:17 pm)

-----
2 ERROR: There already is inventory present for item 100022A01. Changing Serialized is not allowed.(tcibd00114)
2 ERROR: The Serialized field cannot be modified in Items.(ttstps0035)
2 INFO: Hint: Error Caused in Library:tcibd001.seri not valid, at Line:0()
2 INFO: Above error(s) are from table: tcibd001()
2 00022A01|100022A | OCK OTCH/TY02C/MDS1|VERRIE.GRUPPE MDS1-TYP02 OPT. ||1|RF0010||VERRIE.GRUPPE M|100022A01|pcs|1|1|0|84313100|
IT|s01||c|0|2|99999999|2|1|0|99999999|0|1|0|105010||10|pcs|pcs|EUR|16.93|IT0718||42.33|17.86

-----

Process ended (April 28 2020 02:42:21 pm)

Elapsed Time: 0000:00:04

Comapny = 1100, Records Read = 6, Successful = 5, Failed = 1
    
```

The above log file, tells, the second row in the file is not processed; you can also the data present in the 2<sup>nd</sup> row. At the end it also shows the summary, how many records are there in the file, how many are successful and how many failed.

**Note:** For data uploads the below points are important:

- (1) For Master Data: If data is already present, it get updated, else it get created
- (2) For Transactional Data: Always get created.

## 5 FINANCE TRANSACTION TEMPLATES

### 5.1 Open Account Payable

This section explains how Open Account Payable (ACP) is uploaded to LN CE.

#### 5.1.1 OBJECTIVE

To create ACP open transactions for suppliers in Accounts Payable module.

#### 5.1.2 PRE-CONDITIONS

The following information must be available in LN before loading this template

- a. Business Partners (Supplier roles), Transactions Types, Ledger Accounts must be maintained. The reference templates (1) ChartOfAccounts and (2) SupplierAllRoles helps to upload some of these pre-requisites.
- b. Currencies, Country Code, Tax information, Exchanges Rate Types must be present in LN
- c. Other finance mater data like periods must be maintained.

#### 5.1.3 EXPLANATION OF TEMPLATE FIELDS

In this section, some of the important fields in the templates are explained:

1. **Business Partner (Supplier):** If you have uploaded Suppliers using MUU, then specify **legacy** supplier number here. During upload, the system retrieves the LN Business Partner Code automatically. If you have created Suppliers in other means, then specify the LN BP code in this filed.
2. **Transaction type:** This is a mandatory field. Following are the Transaction Types that are only allowed:
  - i. Purchase Invoice
  - ii. Purchase Credit Note
  - iii. Cash
3. **Document Type:** The following Document Types are only supported:

Document Type	Value in Template
Purchase Invoice	1
Purchase Credit Note	4
Advance Payment	9
Unallocated Payment	10

4. **Supplier's Invoice Number:** You must enter this number if, in the ACP Parameters (tfacp0100m000) session, on the General tab, Invoice Number Mandatory is selected.
5. **Amount:** Invoice Amount.
6. **Currency:** Invoice Currency
7. **Document Date:** Document Date in the format YYYYMMDD [this is default format for templates, in case of date errors, check the format specified in templates (txbof1100m000)]
8. **Due Date:** Due Date in the format YYYYMMDD
9. **Transaction Reference:** You can specify the legacy system invoice number here or any other values that gives further information regarding this entry.
10. **Rate Type:** Rate Type
11. **Rate Date:** Rate Date in the format YYYYMMDD. If you are using multiple reporting currencies, this date is used to retrieve the currency exchange rates. Make sure you have currency exchange rates available in LN on this date and rate type. (Refer below points, 14 & 15)
12. **Country for Tax:** Country for Tax. This is optional.
13. **Tax Code:** Tax Code.

14. **Rate Determination:** If the exchange rate to home currency needs to be manually provided as input, specify the value as '8' (Manually Entered). Allowed value are:
  - '6' – Document Date
  - '8' – Manually Entered
15. **Currency Rate:** Specify the rate, in case Rate Determination is 'Manually Entered', otherwise it can be blank.
16. **Transaction Entry Date:** This date is used to determine the Fiscal Year and Period. This date should be same for all records in this file. Date format is YYYYMMDD.
17. **Cashflow Reason:** Reason for the cashflow
18. **Migration GL Account:** The ledger account against which the transaction is registered. You can create one ledger account for AP migration say, "Open AP migration", and you can specify that account for all the rows. In this way the data validation become simpler in LN. This Ledger account will be mapped to Ledger account in Transaction Lines (tfgld102). This is only required in case of Purchase Invoice and Credit Note. In case of Advance Payment and Unallocated Payment, it is not required.
19. **Migration Dimension 1:** Value for Dimension 1 of the Ledger Account
20. **Migration Dimension 2:** Value for Dimension 2 of the Ledger Account
21. **Migration Dimension 3:** Value for Dimension 3 of the Ledger Account
22. **Migration Dimension 4:** Value for Dimension 4 of the Ledger Account
23. **Migration Dimension 5:** Value for Dimension 5 of the Ledger Account
24. **Migration Dimension 6:** Value for Dimension 6 of the Ledger Account

### 5.1.4 SESSIONS UPDATED

1. Transaction (tfgld1101m000)
2. Based on transaction type different linked sessions are updated like
  - a. Open Entries (tfacp2520m000)
  - b. Bank Transactions (tfcmg2500m000)

### 5.1.5 UPLOAD LOGIC

- Purchase Invoices are uploaded as Cost Invoices.
- The Control Account is determined in case the Document Type is **Purchase Invoice** or **Purchase Credit Note**, using the below steps:
  - a. Using the LN Business Partner (Supplier), Financial Supplier Group is determined from session "Invoice-from Business Partners (tccom4122s000)".
  - b. Using this Financial Supplier Group (also known as Financial Business Partner Group), Control Account is determined from session "Accounts by Financial BP Group (tfacp0110m100)".
- Accounts which are Debited/Credited based on Document Types:

Document Type	Debit	Credit
Purchase Invoice	Migration GL Account	Control Account from Accounts by Financial BP Group (tfacp0110m100)
Purchase Credit Note	Control Account from Accounts by Financial BP Group (tfacp0110m100)	Migration GL Account
Advance Payment	Ledger Account with "Kind of Transaction" as " <b>Advance Payments</b> " in the session "Accounts by Financial BP Group (tfacp0110m100)"	Cash Account/Bank Account determined using the Transaction Type (provided in the Template as input) from session "Transaction Types (tfgld0511m000)"
Unallocated Payment	Ledger Account with "Kind of Transaction" as " <b>Unallocated Payments</b> " in the session "Accounts by Financial BP Group (tfacp0110m100)"	Cash Account/Bank Account determined using the Transaction Type (provided in the Template as input) from session "Transaction Types (tfgld0511m000)"

**Note:** If you want to provide currency rate in the input file, Rate Determination should be 'manual'

## 5.2 Open Account Receivables

This section explains how Open Account Receivables (ACR) is uploaded to LN CE.

### 5.2.6 OBJECTIVE

To create ACR open transactions for customers in Accounts Receivable module.

### 5.2.7 PRE-CONDITIONS

The following information must be available in LN before loading this template

- a. Business Partners (Customer roles), Transactions Types, Ledger Accounts must be maintained. The reference templates (1) ChartOfAccounts and (2) CustomerAllRoles helps to upload some of these pre-requisites.
- b. Currencies, Country Code, Tax information, Exchanges Rate Types must be present in LN
- c. Other finance mater data like periods must be maintained.

### 5.2.8 EXPLANATION OF TEMPLATE FIELDS

In this section, some of the important fields in the templates are explained:

1. **Business Partner (Customer):** If you have uploaded Customers using MUU, then specify **legacy** customer number here. During upload, the system retrieves the LN Business Partner Code automatically. If you have created customers in other means, then specify the LN BP code in this filed.
2. **Transaction type:** This is a mandatory field. Following are the Transaction Types that are only allowed:
  - i. Sales Invoice
  - ii. Sales Credit Note
  - iii. Cash
3. **Document Type:** The following Document Types are only supported:

Document Type	Value in Template
Sales Invoice	1
Sales Credit Note	4
Advance Receipt	9
Unallocated Receipt	10

4. **Amount:** Depending upon the Transaction Type, Amount can be either negative or positive.
5. **Currency:** Invoice Currency
6. **Document Date:** Document Date in the format YYYYMMDD
7. **Due Date:** Due Date in the format YYYYMMDD
8. **Transaction Reference:** You can specify the legacy system invoice number here or any other values that gives further information regarding this entry.
9. **Rate Type:** Rate Type
10. **Rate Date:** Rate Date in the format YYYYMMDD. If you are using multiple reporting currencies, this date is used to retrieve the currency exchange rates. Make sure you have currency exchange rates available in LN on this date and rate type.
11. **Migration GL Account:** The ledger account against which the transaction is registered. You can create one ledger account for AR migration say, "Open AR migration", and you can specify that account for all the rows. In this way the data validation become simpler in LN. This Ledger account will be mapped to Ledger account in Transaction Lines (tfgld102). This is only required in case of Sales Invoice and Credit Note. In case of Advance Receipt and Unallocated Receipt, it is not required.
12. **Migration Dimension 1:** Value for Dimension 1 of the Ledger Account
13. **Migration Dimension 2:** Value for Dimension 2 of the Ledger Account
14. **Migration Dimension 3:** Value for Dimension 3 of the Ledger Account
15. **Migration Dimension 4:** Value for Dimension 4 of the Ledger Account
16. **Migration Dimension 5:** Value for Dimension 5 of the Ledger Account

- 17. **Migration Dimension 6:** Value for Dimension 6 of the Ledger Account
- 18. **Country for Tax:** Country for Tax. This is optional.
- 19. **Tax Code:** Tax Code.
- 20. **Rate Determination:** If the exchange rate to home currency needs to be provided as input, specify the value as '8' (Manually Entered). Allowed value are:
  - '6' – Document Date
  - '8' – Manually Entered
- 21. **Currency Rate:** Specify the rate, in case Rate Determination is 'Manually Entered'.
- 22. **Transaction Entry Date:** This date is used to determine the Fiscal Year and Period. This date should be same for all records in this file. Date format is YYYYMMDD.
- 23. **Cashflow Reason:** Reason for the cashflow.

### 5.2.9 SESSIONS UPDATED

- a. Transaction (tfgl1101m000)
- b. Based on transaction type different linked sessions are updated like
  - Open Entries (tfacr2520m000)
  - Bank Transactions (tfcmg2500m000)

### 1.1.1 UPLOAD LOGIC

- The Control Account is determined in case the Document Type is **Sales Invoice** or **Sales Credit Note**, using the below steps:
  - 1) Using the LN Business Partner (customer), Financial Customer Group is determined from session "Invoice-to Business Partners (tccom4112s000)".
  - 2) Using this Financial Customer Group (also known as Financial Business Partner Group), Control Account is determined from session "Accounts by Financial BP Group (tfacr0110m100)".
- Below tables shows the accounts which are Debited/Credited as per Document Types:

Document Type	Debit	Credit
Sales Invoice	Control Account from Accounts by Financial BP Group (tfacr0110m100)	Migration GL Account provided as input in the Template
Sales Credit Note	Migration GL Account provided as input in the Template	Control Account from Accounts by Financial BP Group (tfacr0110m100)
Advance Receipt	Cash Account/Bank Account determined using the Transaction Type (provided in the Template as input) from session "Transaction Types (tfgl0511m000)"	Ledger Account with "Kind of Transaction" as "Advance Receipts" in the session "Accounts by Financial BP Group (tfacr0110m100)"
Unallocated Receipt	Cash Account/Bank Account determined using the Transaction Type (provided in the Template as input) from session "Transaction Types (tfgl0511m000)"	Ledger Account with "Kind of Transaction" as "Unallocated Receipts" in the session "Accounts by Financial BP Group (tfacr0110m100)"

**Note:** If you want to provide currency rate in the input file, Rate Determination should be 'manual'.