



Universal Excel
Import Export

Universal Excel Import Export

4BzSoftware Company Limited | Product S-05

Released on 2015-05-02, last updated on 2019-07-22

4BZSoftware

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1. Introduction

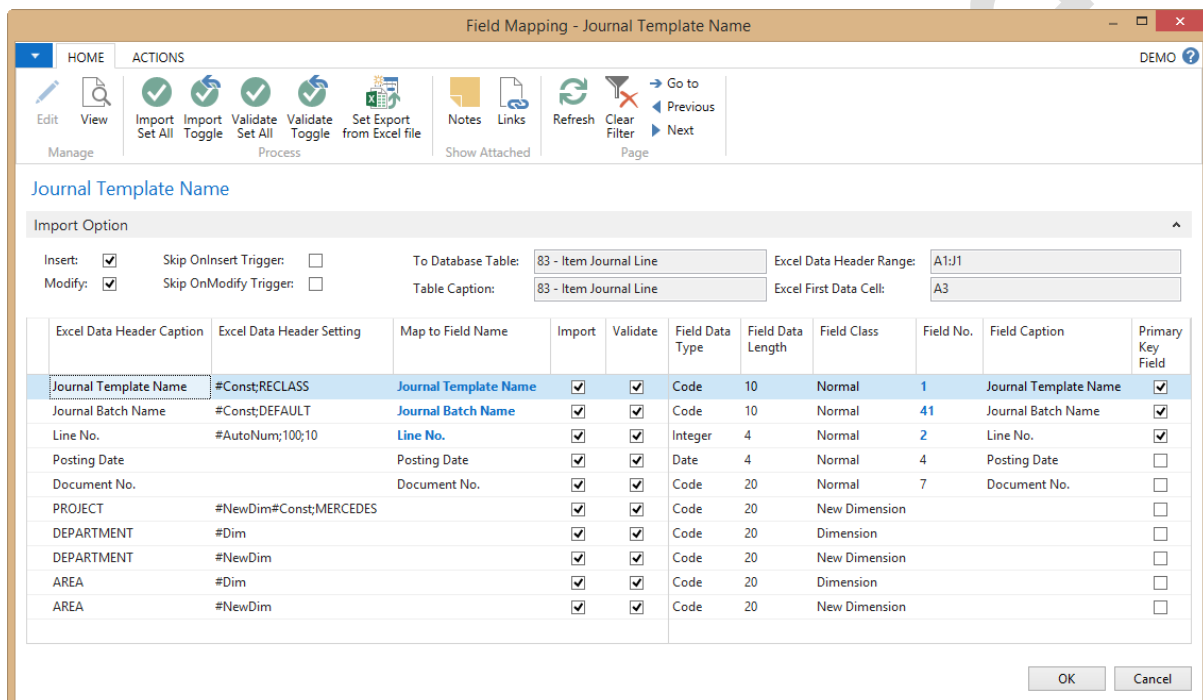
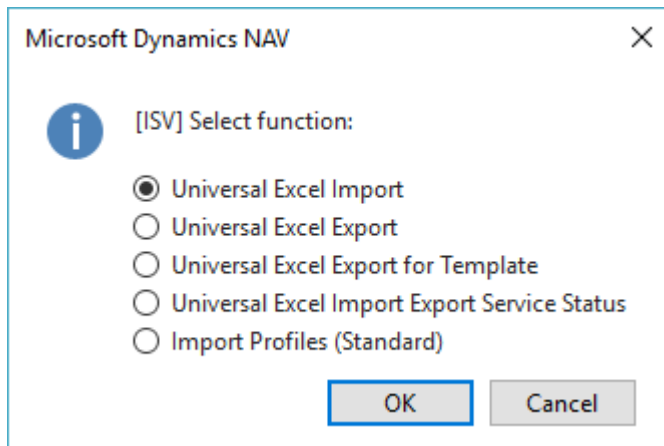
With success of “Universal Data Import Export”, we have received a lot of requests from customers and community for importing data from Microsoft Excel as “Universal Excel Importer”. It is friendly and very useful that Classic NAV Systems (NAV 2009 earlier) should have. Unfortunately, it hasn’t been brought to new NAV Systems (from NAV 2013).

According to demand and its beauty of simplicity, we’ve developed “Universal Excel Import Export” (Product S-05) for new NAV Systems. With our tool, users manage to import/export master data, sales, purchase, financial data ... via Excel files.

Related videos at https://www.youtube.com/playlist?list=PLfgzNr8_2Gkoo3v_rUrxM9-3rnCrjPvA

Main features of “Universal Excel Import Export”:

1. Export data to Excel:
 - Support export data with Dimensions.
 - Select and arrange desired Fields to export.
 - Adjust auto Excel Format Value.
 - Filter data before exporting, including Normal, FlowField and FlowFilter Fields.
 - Define Excel Data Header Caption, Excel Sheet Name.
 - Set Number of Rows to be exported.
 - Indicate Excel Top Left Cell, and include/exclude Header.
2. Simply import data from Excel with 4 steps:
 - Step 1: Browse Excel file.
 - Step 2: Select Excel Sheet.
 - Step 3: Choose Database Table.
 - Step 4: Review auto mapped Fields.
3. All 4 steps can be run without user interaction if predefined.
4. Import data with dimension values.
5. Smart Choose Database Table by Sheet Name or predefined in Excel file.
6. Save time with auto map Excel Headers to nearest Fields Name/Caption.
7. Support insert new records only or update existed records only or both insert and update.
8. Field Validate trigger: can be invoked separately or skipped.
9. Record OnInsert and OnModify triggers: can be run or skipped.
10. Flexible settings in Excel file to adapt your business requirements:
 - Constant Values such as #Const;GENERAL#Const;100.
 - Auto Number such as #AutoNum#AutoNum;10000;10000.
 - Not Import Columns such as #NotImport.
 - Not Validate Columns such as #NotValidate.
 - Not Insert New Record such as #NotInsert.
 - Not Modify Existed Record such as #NotModify.
 - Predefined Table ID/Name such as #TableID;18#TableName;Customer.
 - Skip Field Mapping such as #SkipFieldMapping.
 - ...
11. Support Web Client.



We make every effort to ensure that there are no errors. However, no one is perfect, and mistakes do occur. If you find an error or have any idea, we would be very grateful for your feedback, please email to support@4bzsoftware.com. Hope with our products, we contribute to success of your company!

2. How to install/uninstall

Before install, you should backup below NAV objects if existing (for uninstall purpose):

No.	Type	ID	Name	Note
1	Report	9172	Import Profiles	Start Point
2	Codeunit	31	NAV Library	Protected Object
3	Codeunit	32	Data Table Library	Protected Object
4	Codeunit	33	Excel Library	Protected Object
5	Codeunit	65	License Management	Protected Object
6	Codeunit	280	UEIE Management	Protected Object
7	Page	59	Field Mapping	
8	Page	9097	Values Lookup	
9	Page	9174	All Objects with Caption	
10	Page	9806	Fields Lookup	

Installation steps:

1. Import NAV Objects:

If there are no conflicted objects, you import them with Replace All option. Otherwise, above objects should be merged (please refer to section Technical Point of View for merging).

Note: Protected Objects (Codeunit 31 to 280) should be merged by 4BzSoftware. Please do not edit Protected Objects, they will be crashed (please refer to section Technical Point of View to cover)!

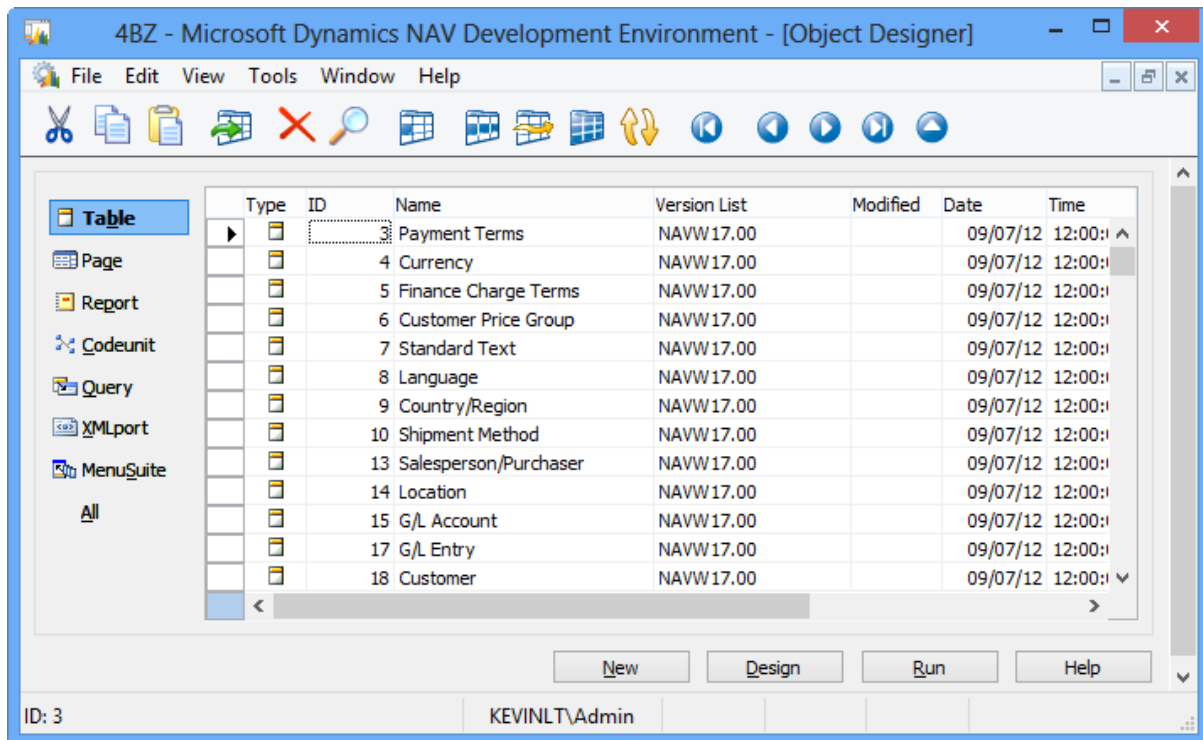
2. Check Service Status:

Service is licensed by NAV License Numbers and End Dates. It should be valid to take effect.

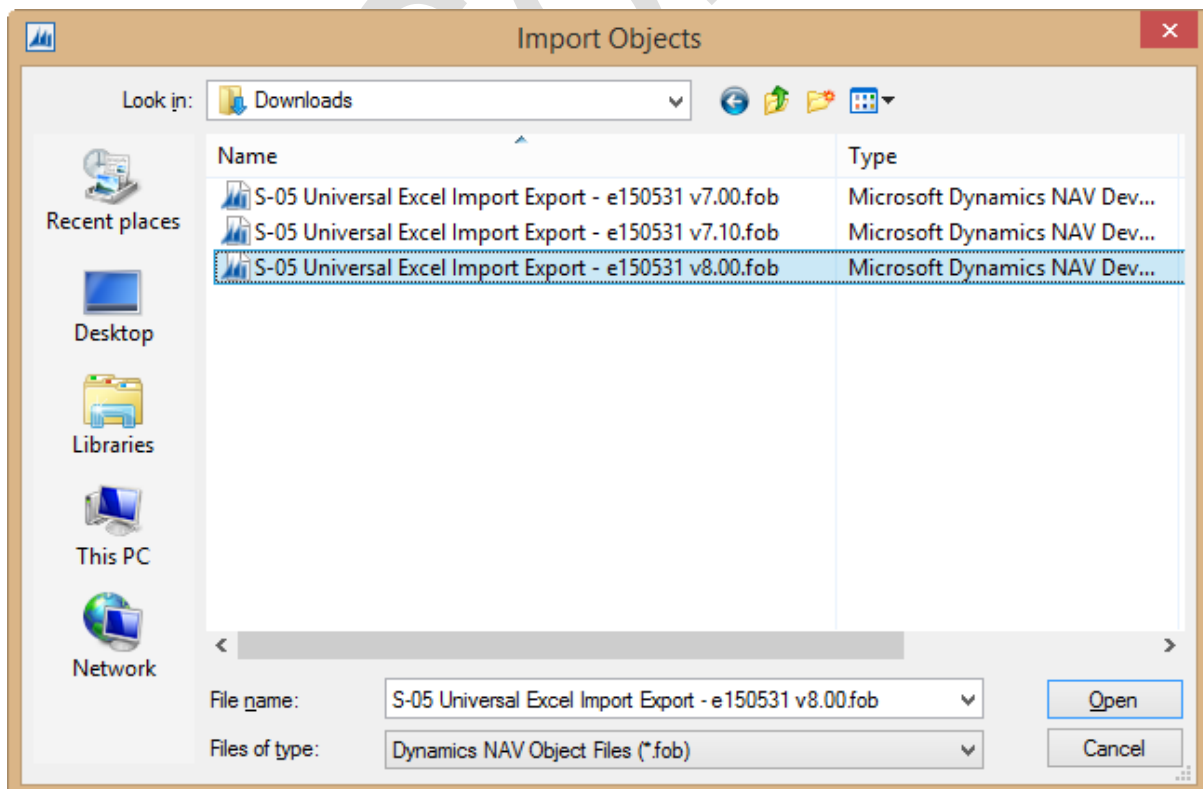
Below sections describe the installation/uninstallation in detail.

2.1 Import NAV Objects

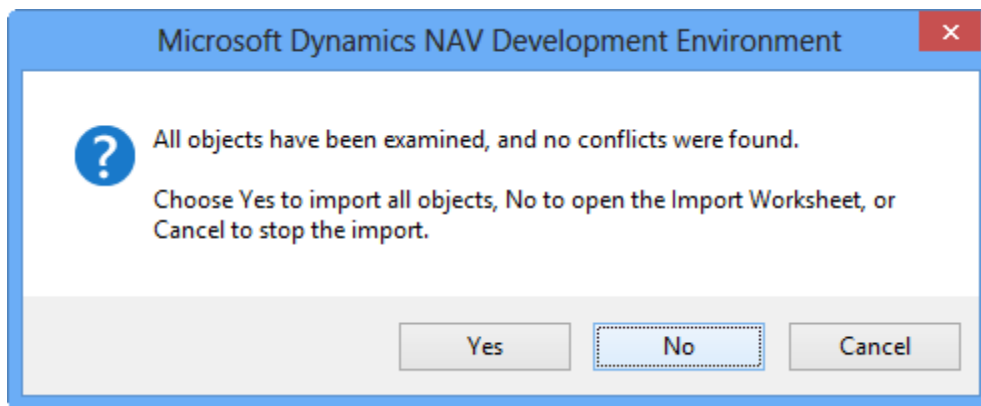
Open Object Designer in Development Environment (after login database, press Shift+F12):



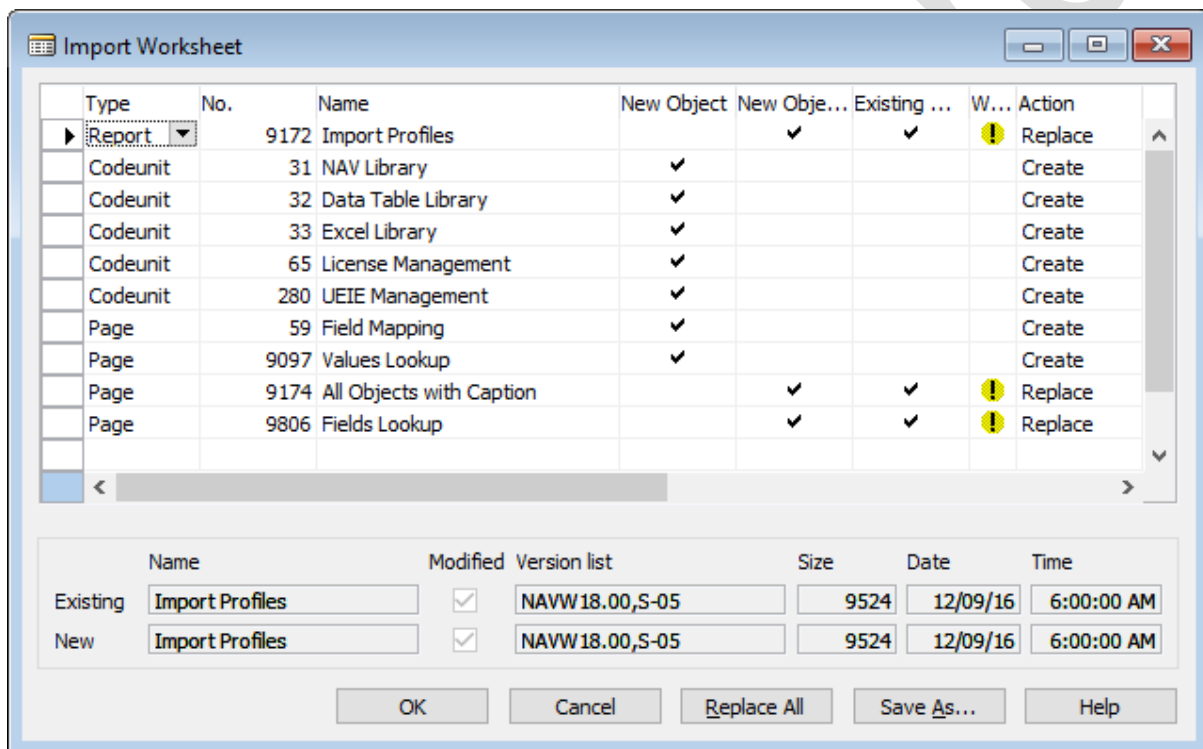
Click File → Import... → Browse Service Navigation Objects in Import Objects dialog → Click Open:



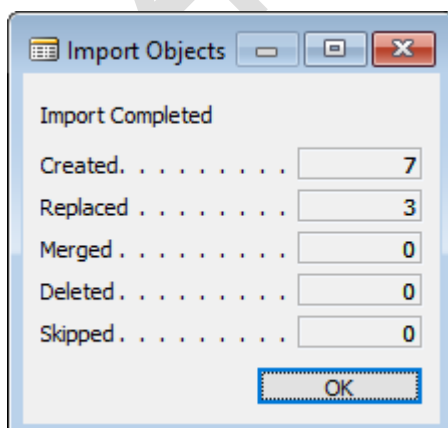
Select No to open Import Worksheet due to conflicted objects:



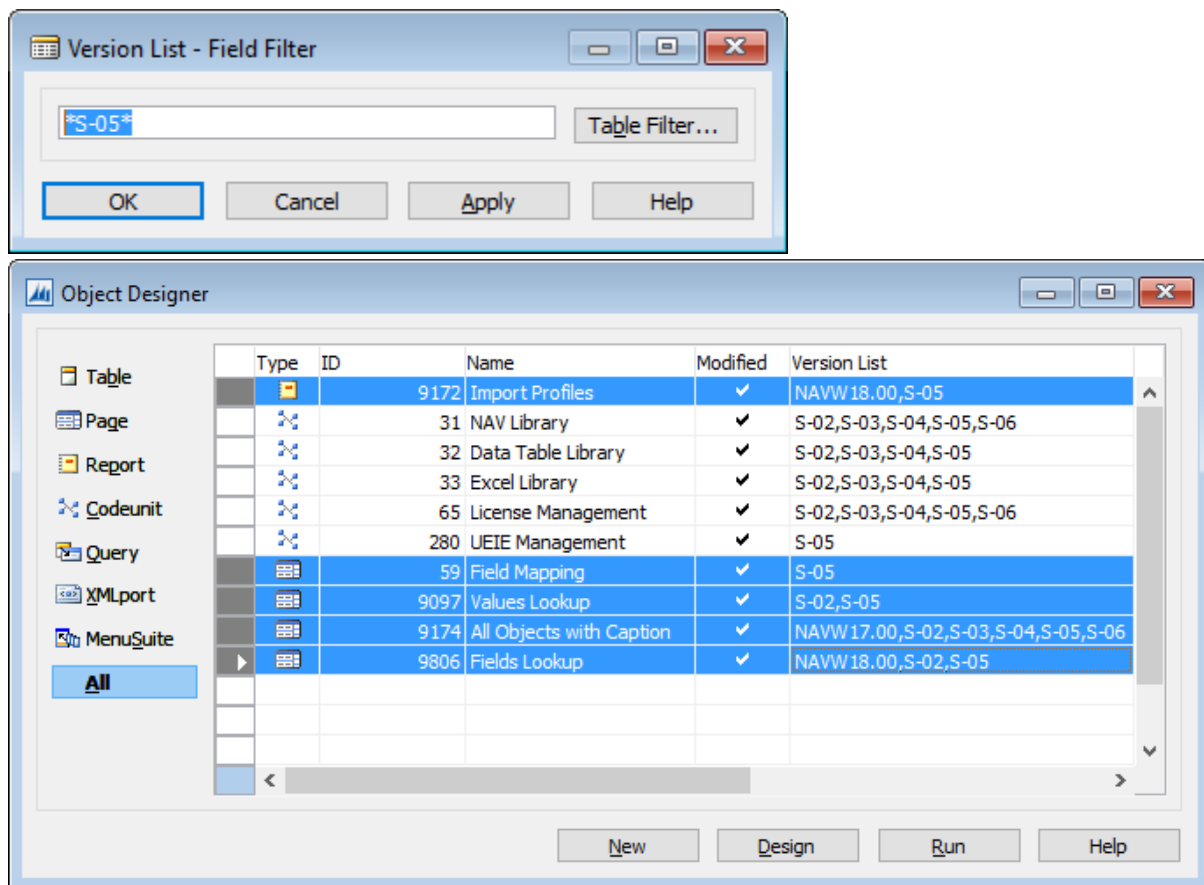
Click Replace All button and then click OK:



From NAV 2015, choose "Force" option for Synchronize Schema. Import Objects dialog result:



Filter Version List with string *S-05*, compile below selected objects:

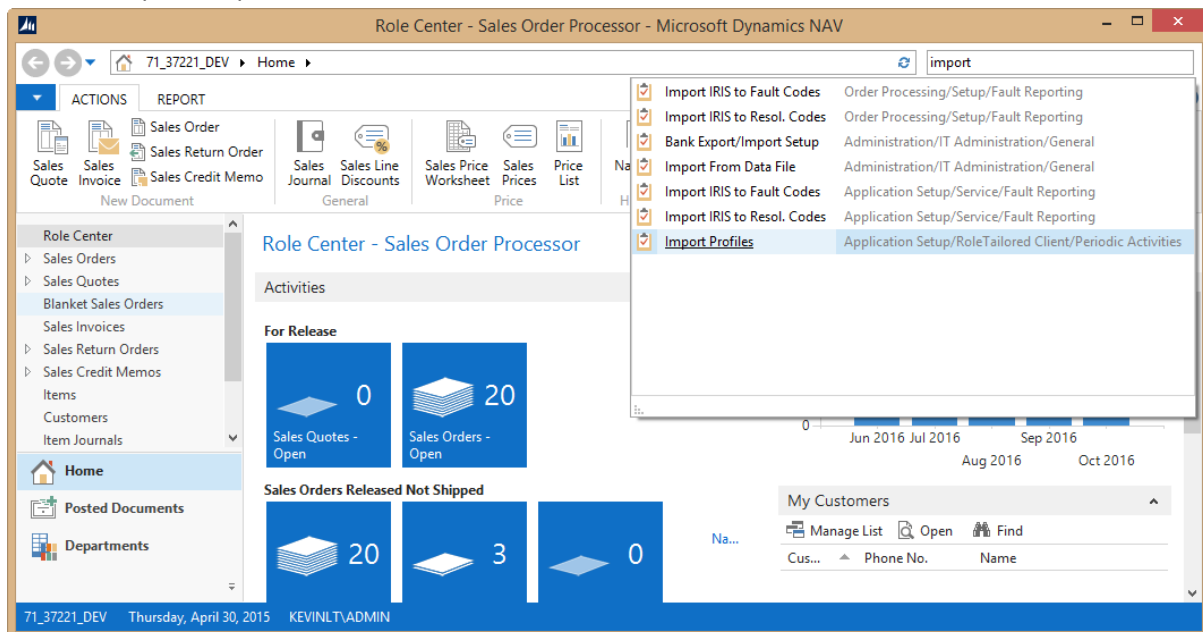


This is finish importing NAV objects.

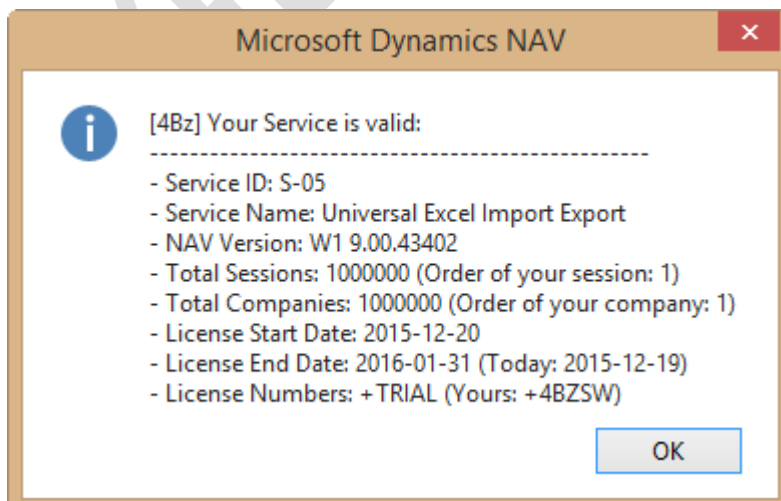
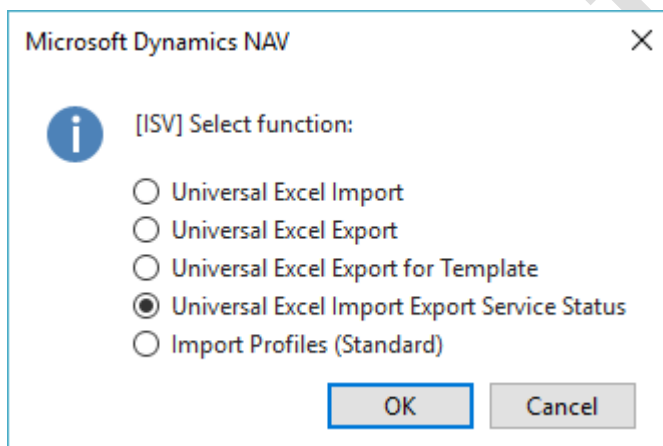
2.2 Check Service Status

Service is licensed by NAV License Numbers and End Dates. It should be valid to take effect.

To check, open “Import Profiles”:



Select “Universal Excel Import Export Service Status” and click OK:



2.3 Uninstall

If you want to uninstall tool, you import the backup objects (before install) and delete some objects:

No.	Type	ID	Name	Note
1	Report	9172	Import Profiles	Import backup object
2	Codeunit	31	NAV Library	Delete
3	Codeunit	32	Data Table Library	Delete
4	Codeunit	33	Excel Library	Delete
5	Codeunit	65	License Management	Delete
6	Codeunit	280	UEIE Management	Delete
7	Page	59	Field Mapping	Delete
8	Page	9097	Values Lookup	Delete
10	Page	9174	All Objects with Caption	Import backup object
9	Page	9806	Fields Lookup	Import backup object

3. How to use

You can find all guide videos at:

https://www.youtube.com/playlist?list=PLfgzNr8_2Gkoo3v_rUrxM9-3rnCrFjPvA

3.1 Export data to Excel

Universal Excel Export helps you to export data to Excel file, including Dimensions if table has dimension information ("Dimension Set ID" or "New Dimension Set ID" columns) in format of Universal Excel Import Export (DimensionCode#Dim or DimensionCode#NewDim).

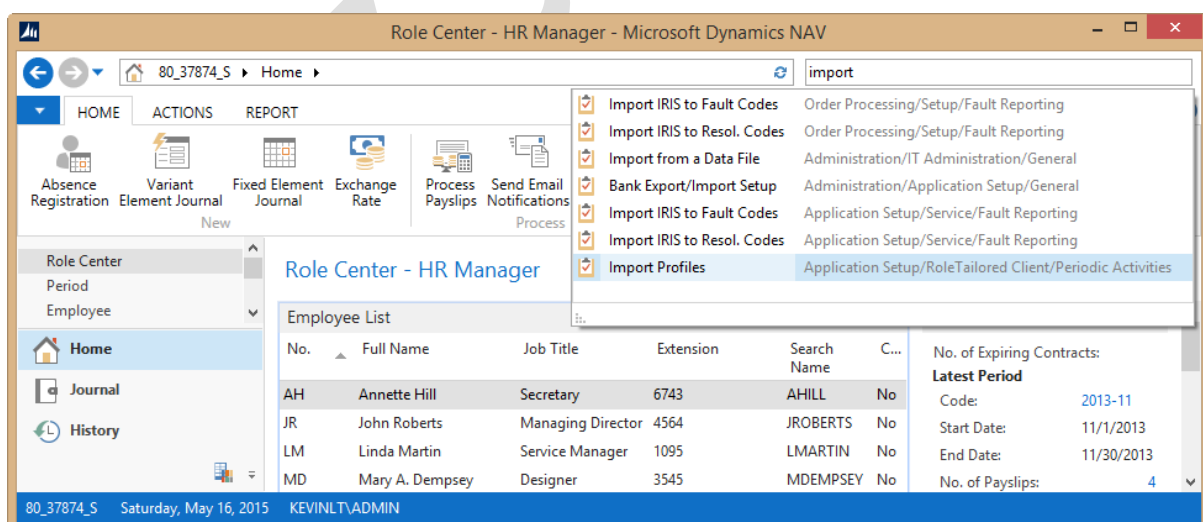
Basically, export process includes 2 steps:

- Step 1: Choose Database Table.
- Step 2: Review auto mapped Fields.

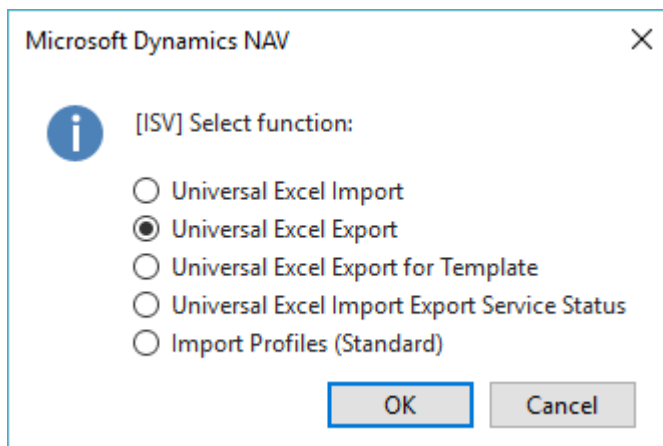
In Step 2, you can:

- Select desired Fields to export.
- Arrange Excel Column Order.
- Adjust auto Excel Format Value.
- Filter data before exporting, including Normal, FlowField and FlowFilter Fields.
- Define Excel Data Header Caption.
- Specify Excel Sheet Name.
- Set Number of Rows to be exported.
- Indicate Excel Top Left Cell, and include/exclude Header.

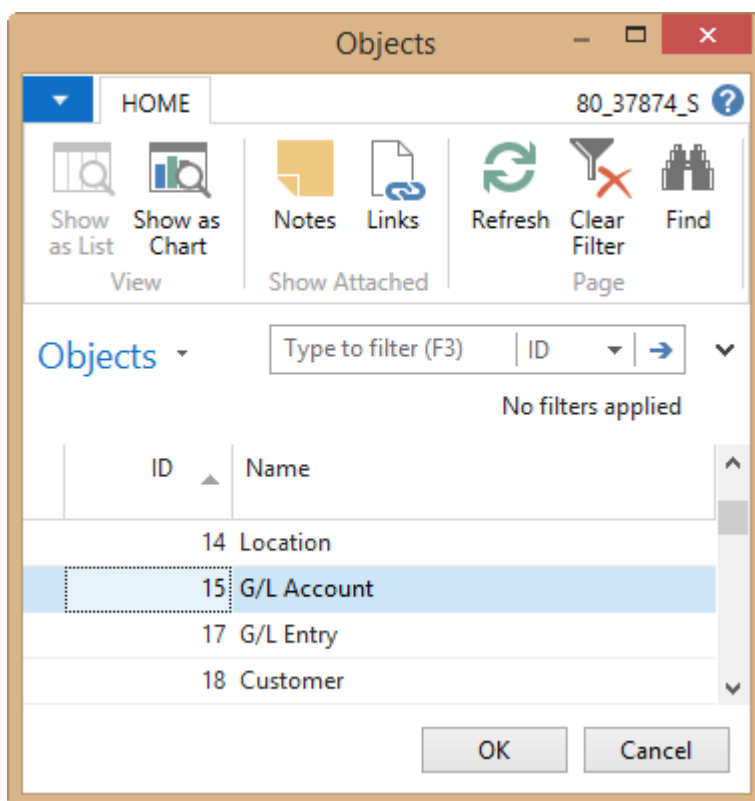
To export data to Excel, open "Import Profiles" by system search:



Select "Universal Excel Export" and click OK:



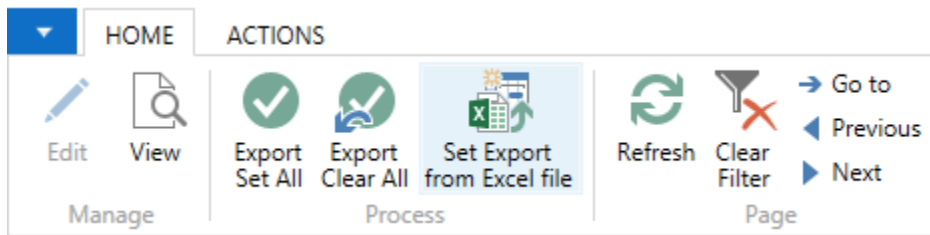
Step 1: Choose Database Table that you want to export and click OK:



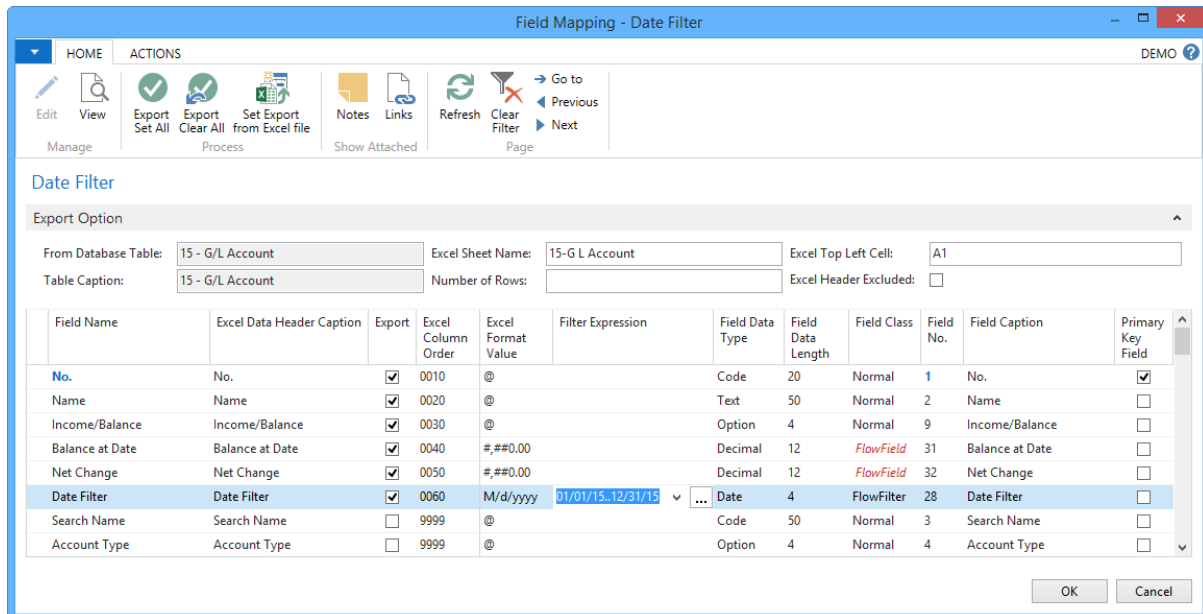
Step 2: Review auto mapped Fields:

- Set Export to true for needed Fields in sequence.
- Press F5 to refresh page, selected Exported Fields will be sorted ascending. Edit Excel Column Order to re-arrange Columns. The smallest number is the first left column.
- Enter Filter Expression to filter data before exporting. You can filter on all Fields except for Dimension Fields.
- For Option Field Data Type, you can click on Assist Edit button of Filter Expression to insert available Option value.
- Finally, adjust "Export Option" or keep default values. Then click OK.

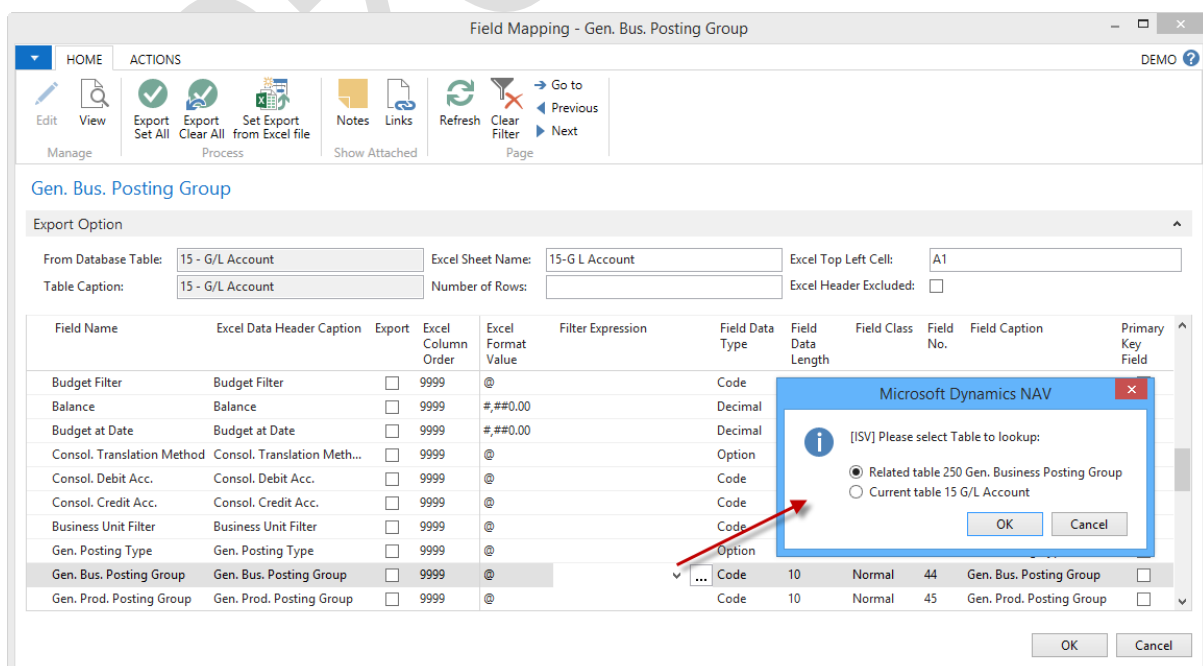
You can set Export from Excel file. Arrange Field Names from Cells A1, B1, C1 ...



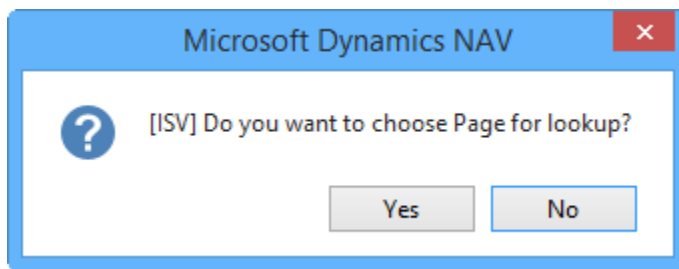
Enter Filter Expression to filter data before exporting (all Fields except for Dimension Fields):



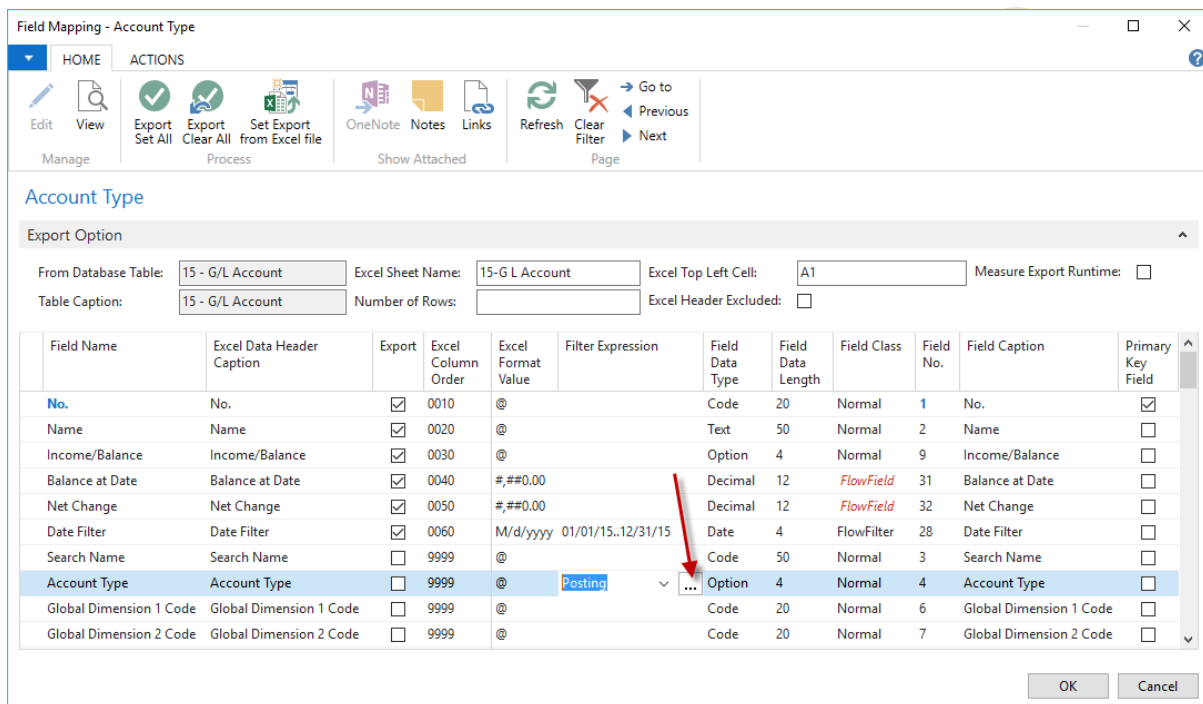
You can drill down Filter Expression to look up and insert desired value. If field has link to other table, system popups table list for your lookup as the following picture:



Then, you can choose Page for lookup or click No to let system use suitable Page:



And also click Assist Edit button to lookup distinct sample values via Values Lookup page:



There are 6 columns in Values Lookup page:

- The first column Assist Edit button helps insert value to Filter Expression.
- The second to sixth columns Assist Edit buttons help to change Fields. After changing Fields, remember to click Load Data action to re-load distinct sample records.

You can specify Maximum Loops to retrieve Distinct Values, and Descending Load Data in the page as following pictures:

The first column Assist Edit button helps insert value to Filter Expression:

Values Lookup - Posting

HOME ACTIONS

View Load Data OneNote Notes Links Refresh Clear Filter Go to Previous Next

Manage Process Show Attached Page

Posting

General

Max Loops for Distinct Values: 1000 Filter Expression: Posting

Descending Load Data: ☐

Account Type	No.	Name	Search Name	Global Dimension 1 Code	Global Dimension 2 Code
Posting	1110	Land and Buildings	LAND AND BUILDINGS		
Heading	1000	BALANCE SHEET	BALANCE SHEET		
Total	3195	Net Income for the Year	NET INCOME FOR THE YEAR		
Begin-Total	1002	ASSETS	ASSETS		
End-Total	1190	Land and Buildings, Total	LAND AND BUILDINGS, TOTAL		

OK Cancel

The second to sixth columns Assist Edit buttons help to change Fields:

Values Lookup - Posting

HOME ACTIONS

View Load Data OneNote Notes Links Refresh Clear Filter Find

Manage Process Show Attached Page

Posting

General

Max Loops for Distinct Values: Descending Load Data: ☐

Fields Lookup

HOME

Show as List Show as Chart View Show Attached

Fields Lookup

Type to filter (F3) No. No filters applied

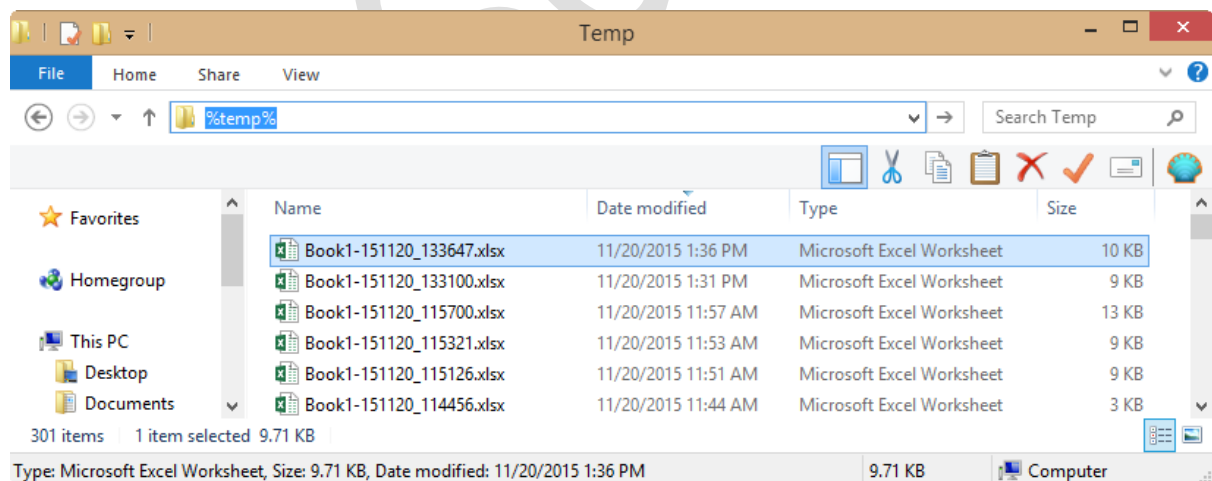
No.	Field Name	Field Caption	Type	Length	Class
1	No.	No.	Code	20	Normal
2	Name	Name	Text	50	Normal
3	Search Name	Search Name	Code	50	Normal
4	Account Type	Account Type	Option	4	Normal

OK Cancel

First row is Names of Fields, and second row is Properties of Fields. Code and Text data types have length information after, and Option data type has available values separated by comma. Data range starts from third row:

No.	Name	Income/Balance	Balance at Date	Net Change	Date Filter	
Code20	Text50	Option:Income Statement,Balance Sheet	Decimal	Decimal	Date	
1110	Land and Buildings	Balance Sheet	1,479,480.60	0.00	01/01/15..12/31/15	
1120	Increases during the Year	Balance Sheet	0.00	0.00	01/01/15..12/31/15	
1130	Decreases during the Year	Balance Sheet	0.00	0.00	01/01/15..12/31/15	
1140	Accum. Depreciation, Buildings	Balance Sheet	-526,620.38	-123,139.21	01/01/15..12/31/15	
1210	Operating Equipment	Balance Sheet	582,872.18	0.00	01/01/15..12/31/15	
1220	Increases during the Year	Balance Sheet	25,116.00	25,116.00	01/01/15..12/31/15	
1230	Decreases during the Year	Balance Sheet	0.00	0.00	01/01/15..12/31/15	
1240	Accum. Depr., Oper. Equip.	Balance Sheet	-508,176.74	-145,912.90	01/01/15..12/31/15	
1310	Vehicles	Balance Sheet	49,473.91	0.00	01/01/15..12/31/15	
1320	Increases during the Year	Balance Sheet	87,000.00	87,000.00	01/01/15..12/31/15	
1330	Decreases during the Year	Balance Sheet	0.00	0.00	01/01/15..12/31/15	
1340	Accum. Depreciation, Vehicles	Balance Sheet	-60,603.78	-35,800.02	01/01/15..12/31/15	
2110	Resale Items	Balance Sheet	533,910.70	533,910.70	01/01/15..12/31/15	
2111	Resale Items (Interim)	Balance Sheet	0.00	0.00	01/01/15..12/31/15	
2112	Cost of Resale Sold (Interim)	Balance Sheet	0.00	0.00	01/01/15..12/31/15	
2120	Finished Goods	Balance Sheet	139,682.60	139,682.60	01/01/15..12/31/15	
2121	Finished Goods (Interim)	Balance Sheet	0.00	0.00	01/01/15..12/31/15	
2130	Raw Materials	Balance Sheet	497,741.10	497,741.10	01/01/15..12/31/15	

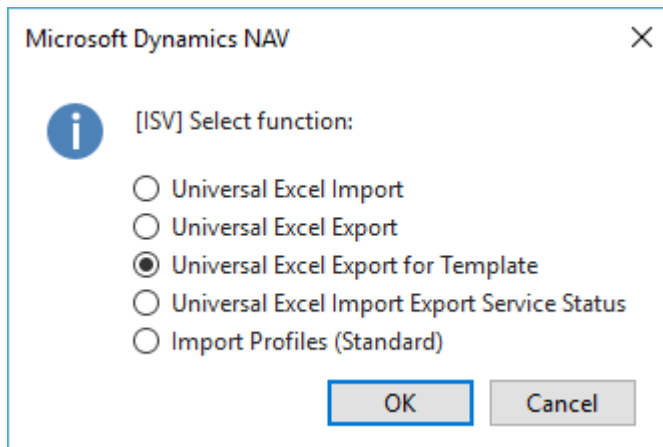
Remember to Save As exported Excel file to desired folder. Otherwise, they are in Windows temporary folder, type %temp% in Windows Explorer to open them:



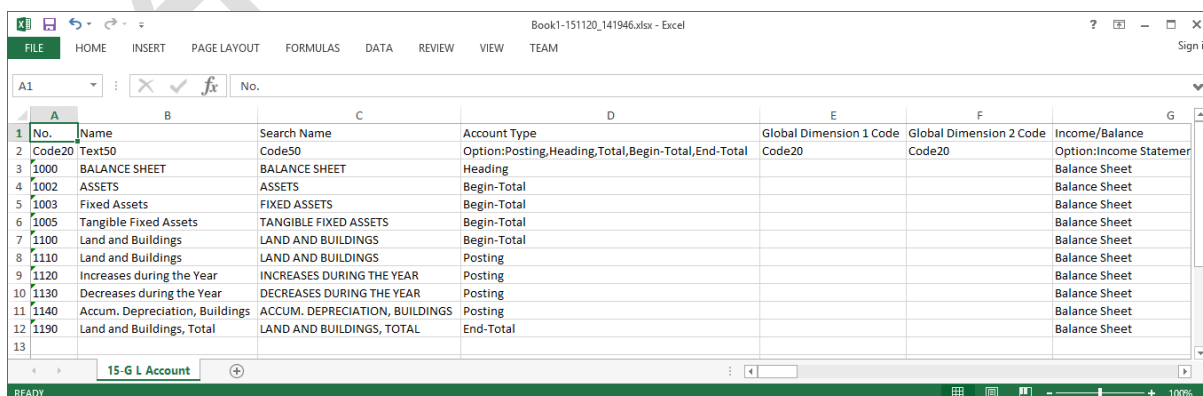
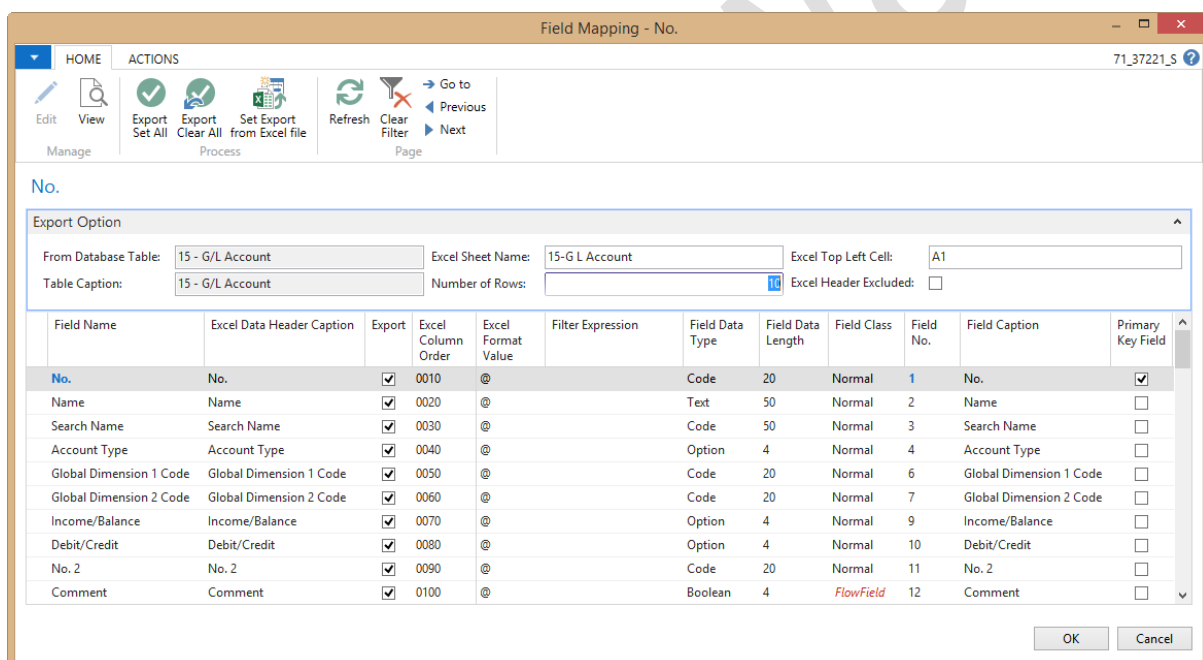
After exporting, system comes back to Select function screen for another database table export. Or you can click Cancel to close the function.

3.2 Export data to Excel for Template

Export data to Excel for Template is for getting Import Template:



Process is same as last section, Export data to Excel. In this mode, system automatically selects all Fields and sets Number of Rows to 10, you can re-edit values before exporting:



3.3 Import data from Excel

The best process to import data via Excel:

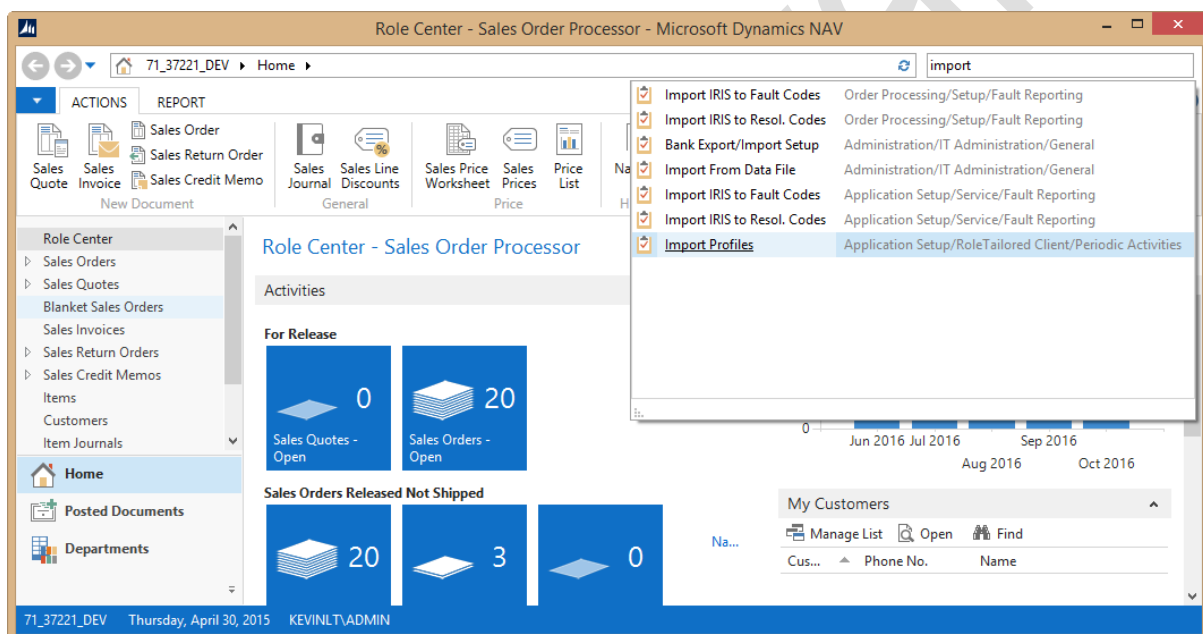
- Export data to Excel with needed Fields, using Universal Excel Export for Template.
- Fill in data in exported Excel file.
- Import data from Excel to Database Table, using Universal Excel Import.

Our “S-05 Universal Excel Import Export - Quick Sample.xlsx” Excel file is for quick reference.

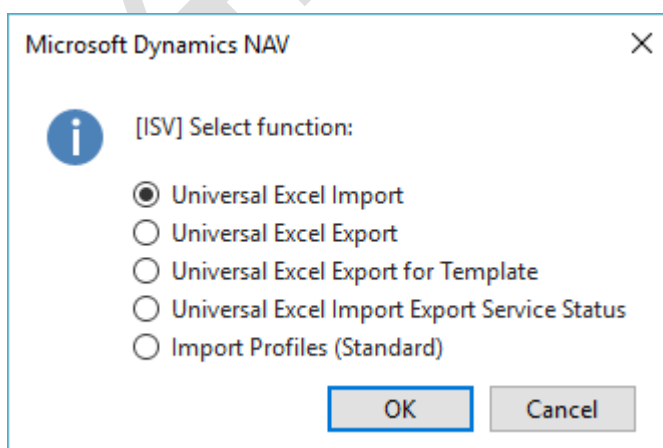
Basically, import data from Excel includes 4 steps:

- Step 1: Browse Excel file.
- Step 2: Select Excel Sheet.
- Step 3: Choose Database Table.
- Step 4: Review auto mapped Fields.

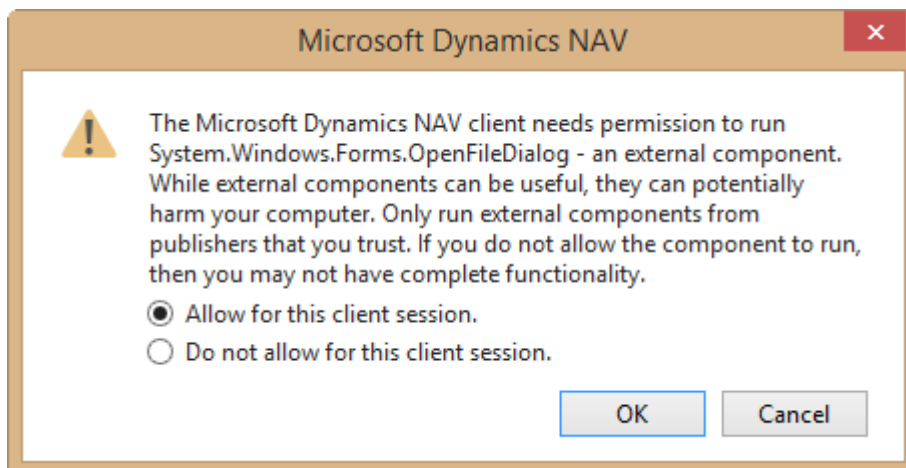
Search “Import Profiles” to start importing:



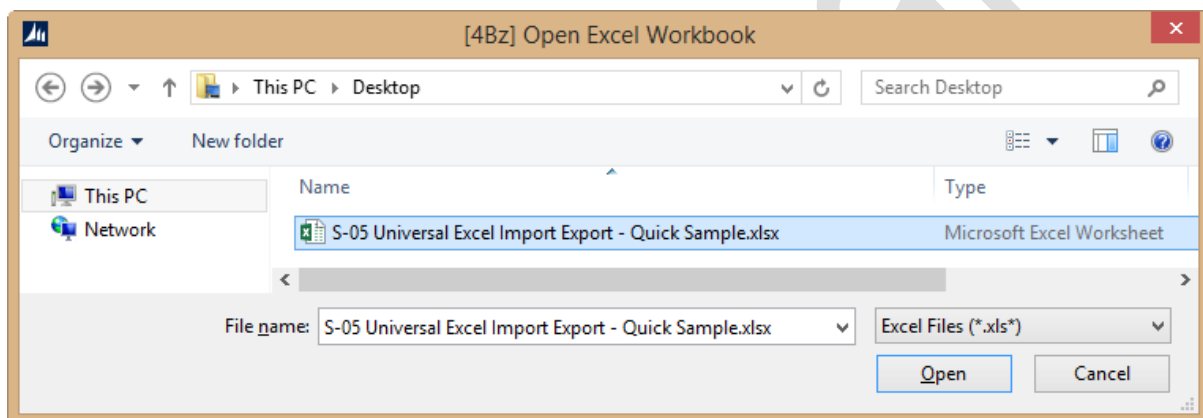
Select “Universal Excel Import” and click OK:



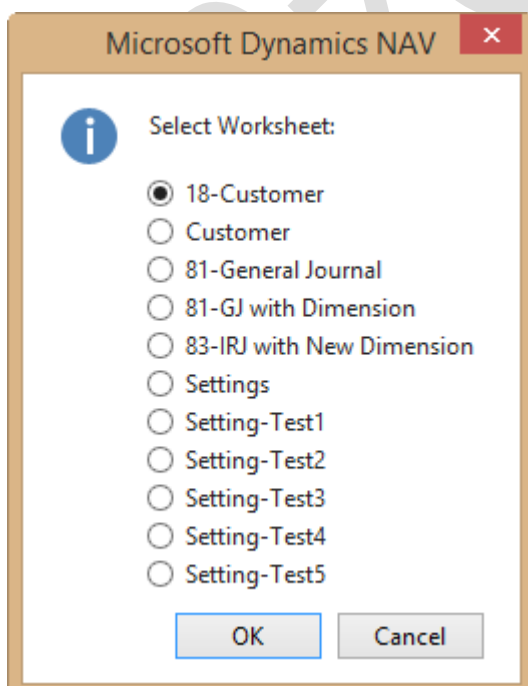
Choose "Allow for this client session":



Step 1 - Browse Excel file:



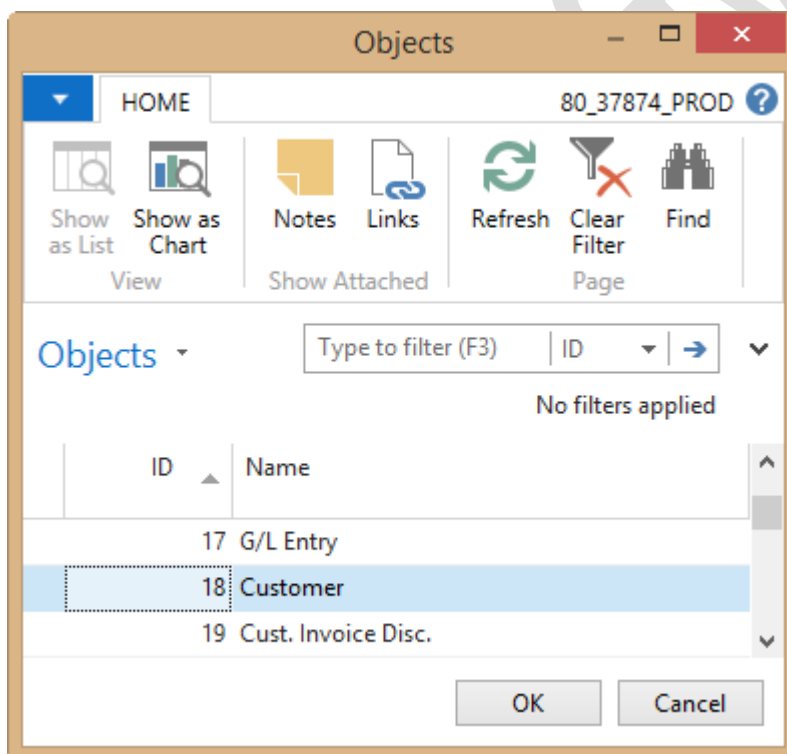
Step 2 - Select Worksheet:



Data in "18-Customer" Sheet of Excel file:

	A	B	C	D	E	F	G
1	No.	Name	Phone No.	Credit Limit (LCY)	Location Code	Blocked	Print Statements
2	Code20	Text50	Text30	Decimal	Code10	Boolean	Boolean
3	NEW CUST 01	New customer 01	001 111	1000	BLUE	Ship	Yes
4	NEW CUST 02	New customer 02	002 222	2000	GREEN	Invoice	No
5	NEW CUST 03	New customer 03	003 333	3000	YELLOW	All	Yes
6							
7	Objectives:						
8	1. Import Customer Information.						
9	2. Include 4 steps:						
10	Step 1: Browse Excel file.						
11	Step 2: Select Excel Sheet.						
12	Step 3: Choose Database Table.						
13	Step 4: Review auto mapped Fields.						
14							

Step 3 - Choose Database Table:



Sheet Name as below helps choose database table quickly:

- Table ID.
- Table Name.
- Table ID-Table Name.

Or you can apply Sheet Setting (discuss in below section) to skip this step.

Step 4 - Review auto mapped Excel Columns to Fields:

Excel Data Header Caption	Excel Data Header Setting	Map to Field Name	Import	Validate	Field Data Type	Field Data Length	Field Class	Field No.	Field Caption	Primary Key Field
No.		No.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code	20	Normal	1	No.	<input checked="" type="checkbox"/>
Name		Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Text	50	Normal	2	Name	<input type="checkbox"/>
Phone No.		Phone No.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Text	30	Normal	9	Phone No.	<input type="checkbox"/>
Credit Limit (LCY)		Credit Limit (LCY)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Decimal	12	Normal	20	Credit Limit (LCY)	<input type="checkbox"/>
Location Code		Location Code	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Code	10	Normal	83	Location Code	<input type="checkbox"/>
Blocked		Blocked	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Option	4	Normal	39	Blocked	<input type="checkbox"/>
Print Statements		Print Statements	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Boolean	4	Normal	42	Print Statements	<input type="checkbox"/>

System automatically maps Excel Headers to nearest Fields Name/Caption.

In Action pane:

- Import Set All: set "Import = true" for all fields except BLOB and FlowField fields.
- Import Toggle: reverse Import values.
- Validate Set All: set "Validate = true" for all fields.
- Validate Toggle: reverse Validate values.

In Option group:

- Insert: true when you want to insert new record from Excel data.
- Modify: true when you want to update existed record by new data in Excel.
- Skip OnInsert Trigger: true when you want to skip OnInsert trigger of record.
- Skip OnModify Trigger: true when you want to skip OnModify trigger of record.

In Detail part:

- Excel Data Header Caption: Excel Data Header Caption part.
- Excel Data Header Setting: Header Setting part, start from "#" character. For example "Contact#NotValidate", "Contact" is Header Caption, "#NotValidate" is Header Setting.
- Map to Field Name: Field Name which is mapped to.
- Field Caption to Field No.: non-editable.
- Primary Key Field: managed by system, true when field is a Primary Key Field.
- Import: true when you want to import this field.
- Validate: true when you want to invoke Validate trigger of this field.

3.4 Header Setting

Excel Data Header can contain Caption only (No., Name) or combined with Setting (Phone No.#NotImport, Contact#NotValidate). Caption is text before “#” char and Setting starts from “#”:

	A	B	C	D
1	No.	Name	Phone No.#NotImport	Contact#NotValidate
2	Code20	Text50	Text30	Text50
3	_NEW CUST 01	New customer 01	001 111 111	Mr. A
4	_NEW CUST 02	New customer 02	002 222 222	Mr. B
5	_NEW CUST 03	New customer 03	003 333 333	Ms. C

Format of Excel Data Header is:

{Excel Data Header Caption}[#Setting1][;Value1A][;Value1B]...[#Setting2][;Value2A][;Value2B]...

- {Excel Data Header Caption} is mandatory.
- [#Setting][;ValueA][;ValueB]... are optional.

For example:

- Contact#NotValidate
- Journal Batch Name#Const;DEFAULT
- Line No.#AutoNum;100;10
- DEPARTMENT#Dim#Const;SALES

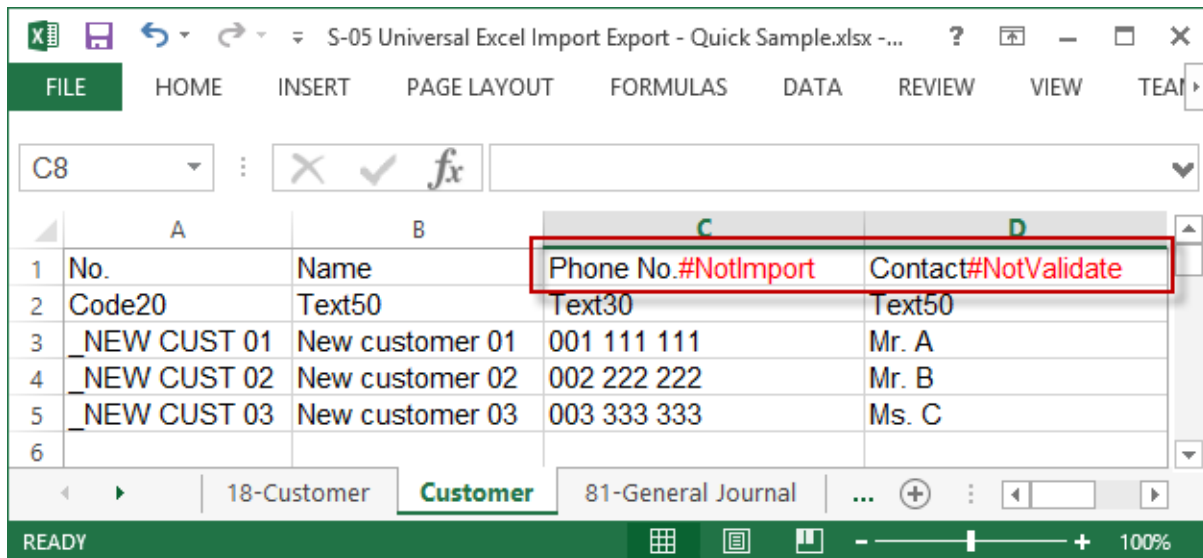
Available Settings are:

- #NotImport
- #NotValidate
- #Const[;Constant Value]
- #AutoNum[;Start Number][;Step]
- #Dim
- #NewDim

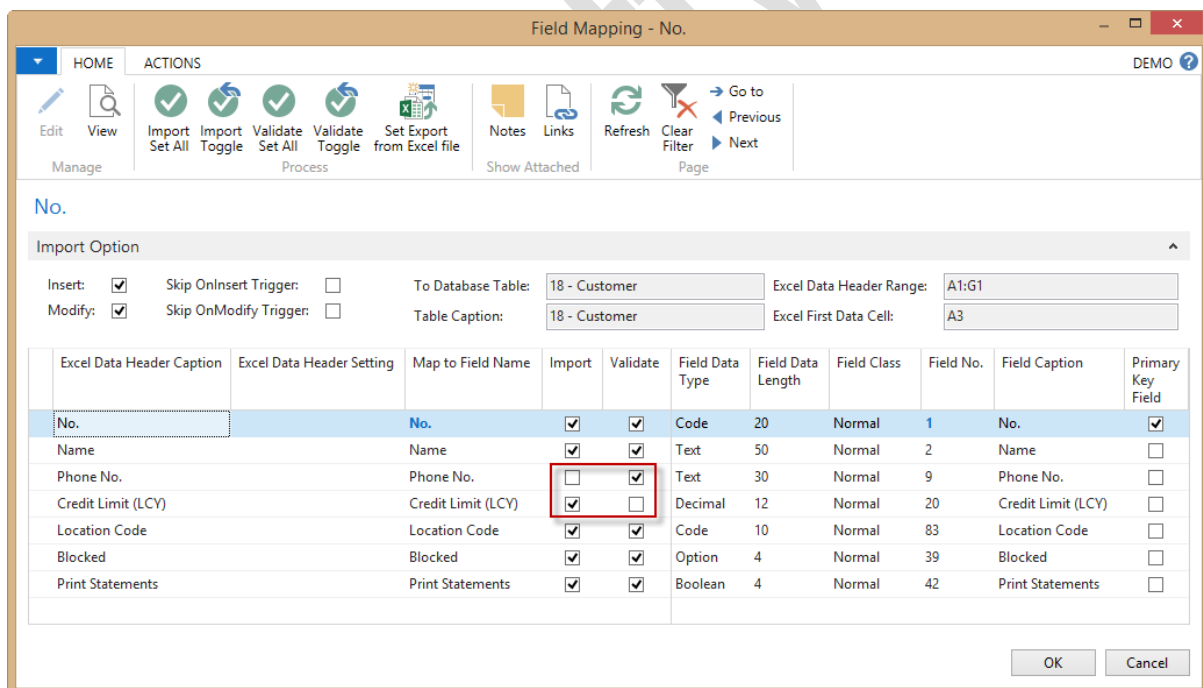
They will be discussed in next sections.

3.5 Header Setting - Not Import and Not Validate

All columns are set Import and Validate by default. However, you can set "not import" and "not validate" for each column by adding #NotImport (column C) and #NotValidate (column D) in Header:

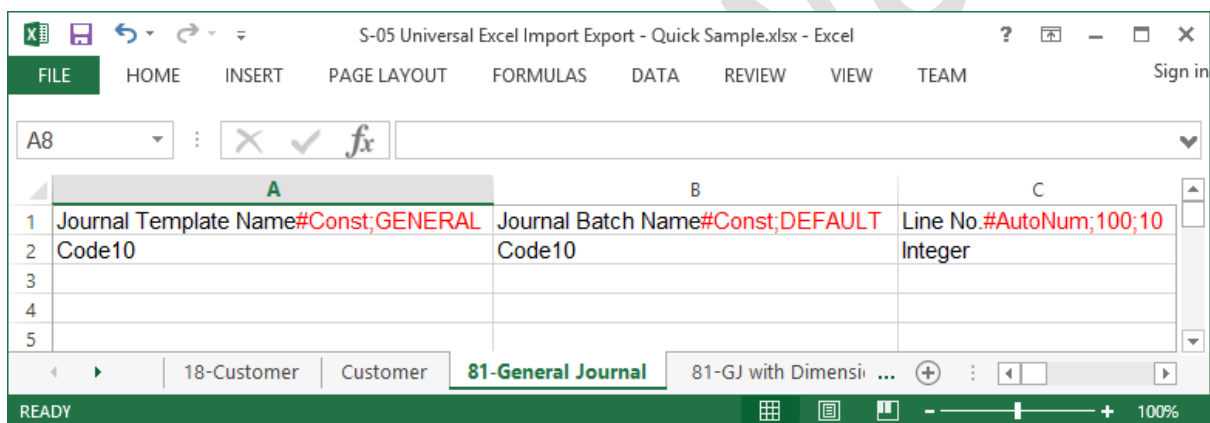
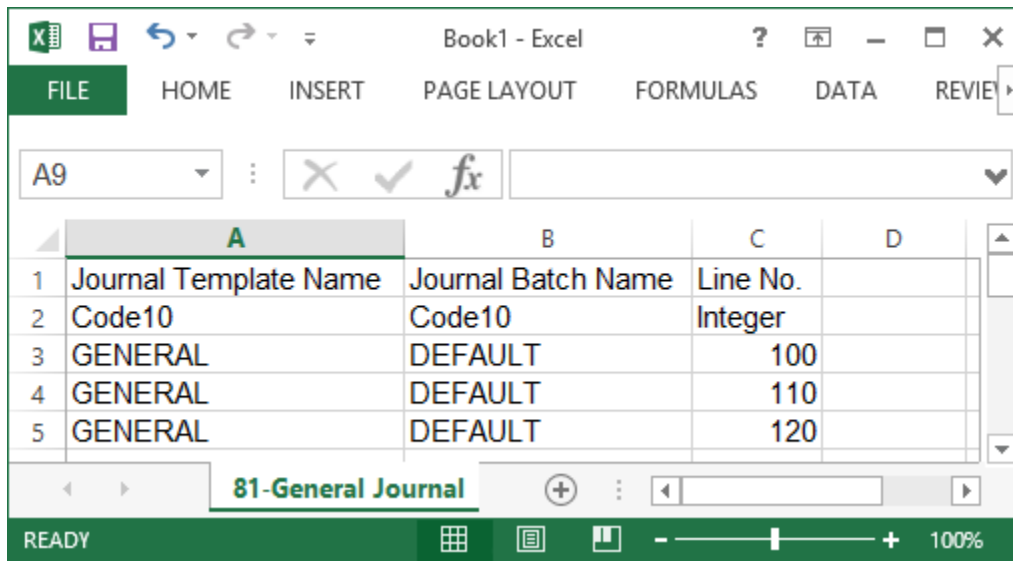


These columns are automatically set "not import" and "not validate" in Map Fields step:



3.6 Header Setting - Constant Value and Auto Number

Instead of filling in values for all cells, you can set Constant Value and Auto Number for columns:



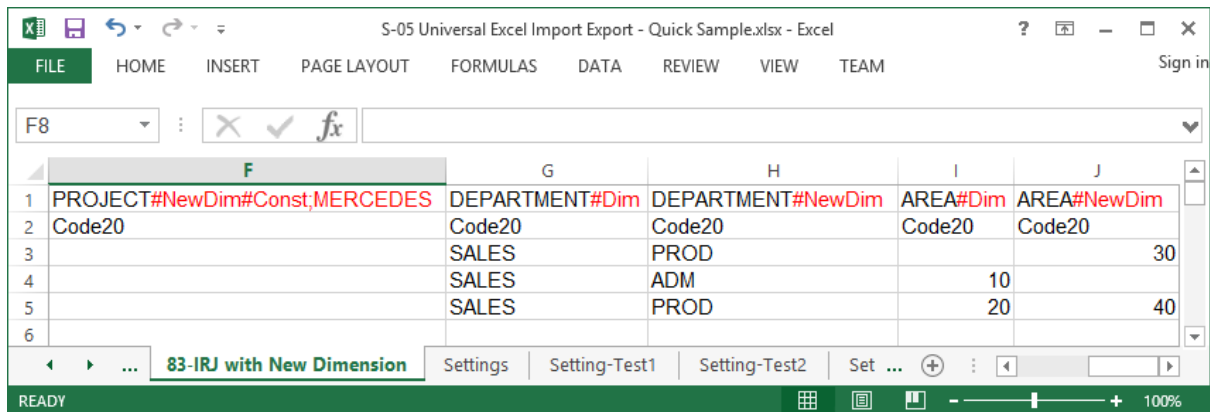
For instances:

#Const;GENERAL	set constant text GENERAL.
#Const	clear text.
#Const;10	set constant number 10.
#Const;0	clear number.
#AutoNum	start from 10000 and increased by 10000
#AutoNum;100;10	start from 100 and increased by 10

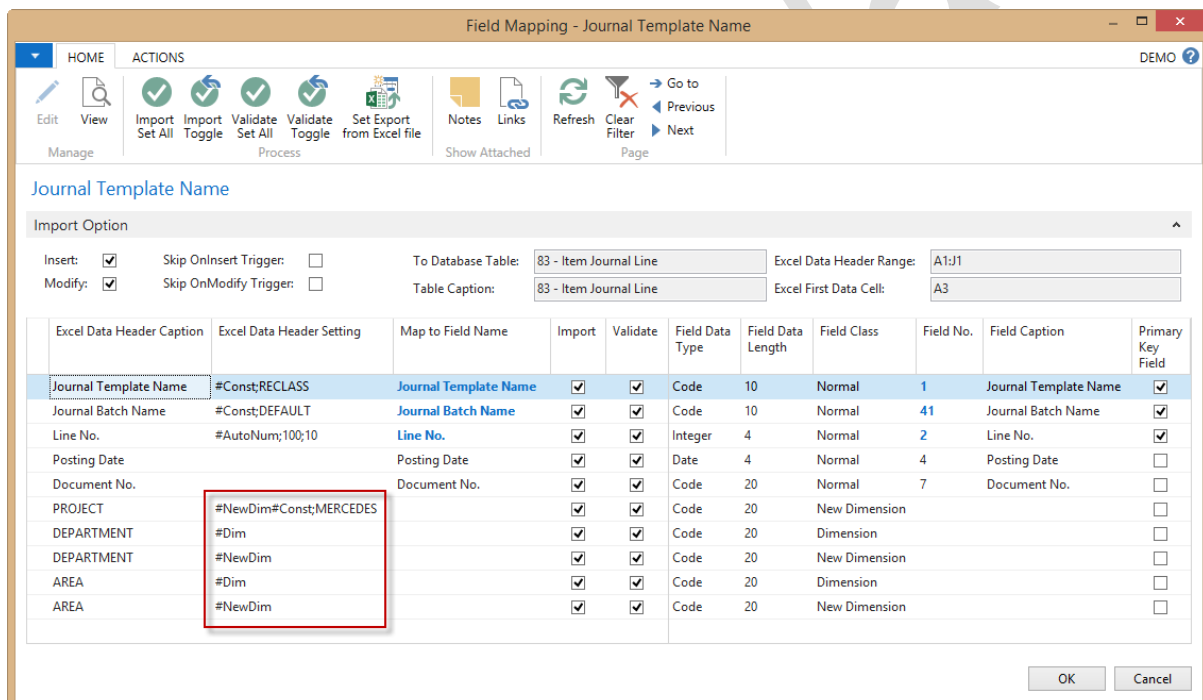
Excel Data Header Caption	Excel Data Header Setting	Map to Field Name
Journal Template Name	#Const;GENERAL	Journal Template Name
Journal Batch Name	#Const;DEFAULT	Journal Batch Name
Line No.	#AutoNum;100;10	Line No.

3.7 Header Setting - Import data with Dimension

You can import data with Dimension information by using setting #Dim and #NewDim:



Text before #Dim or #NewDim is Dimension Code, and the order of Dimension is not important (you can arrange PROJECT dimension first or DEPARTMENT dimension first):

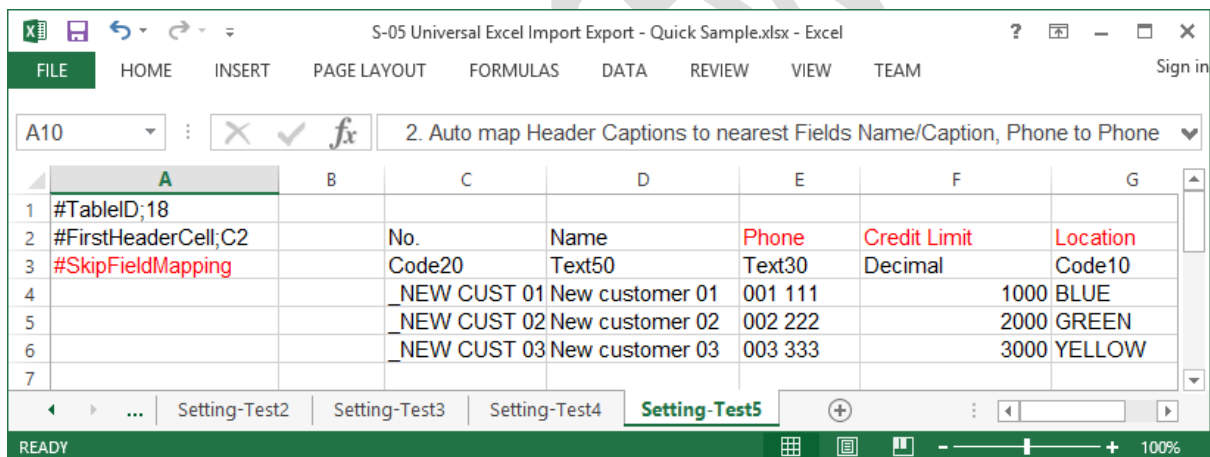
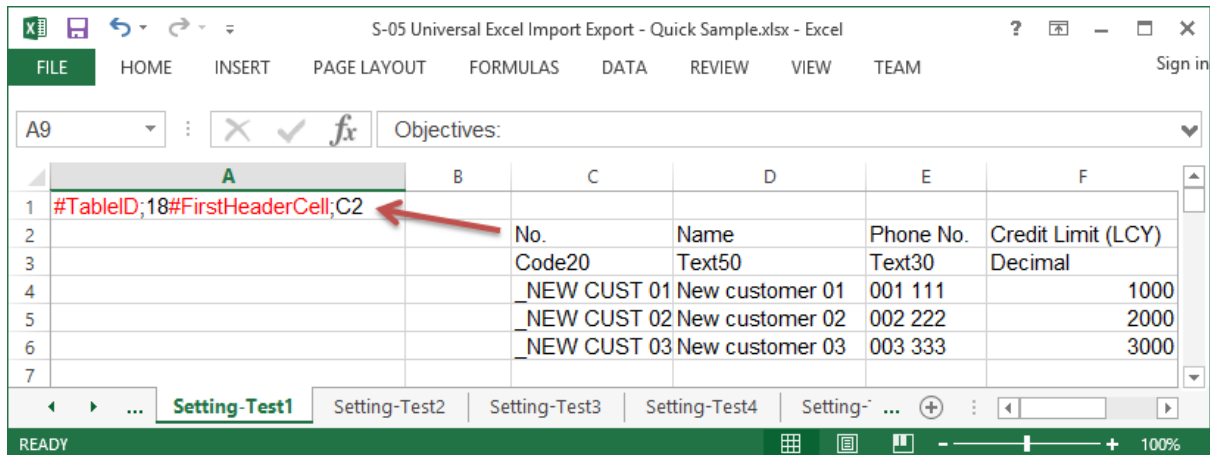


3.8 Sheet Setting

Sheet Setting is used for many purposes such as specify database table to skip choosing it (step 3), skip field mapping (step 4), first header cell, first data cell ... format of Sheet Setting is:

[#Setting1][;Value1A] [;Value1B]... [#Setting2][;Value2A] [;Value2B]...

Sheet Setting is defined in A1 Cell or in A Column:



Available Settings are:

- #TableID;18 specify Table ID, skip Step 3 Choose Database Table.
- #TableName;Customer specify Table Name, skip Step 3 Choose Database Table.
- #FirstHeaderCell;C2 specify first header cell.
- #FirstDataCell;C4 specify first data cell.
- #NotInsert set Not Insert on Field Mapping page (step 4).
- #NotModify set Not Modify on Field Mapping page (step 4).
- #SkipOnInsert set Skip OnInsert Trigger on Field Mapping page (step 4).
- #SkipOnModify set Skip OnModify Trigger on Field Mapping page (step 4).
- #SkipFieldMapping skip field mapping (step 4).

4. Technical Point of View

4.1 NAV Objects

The customization includes below NAV Objects:

No.	Type	ID	Name	Note
1	Report	9172	Import Profiles	Start Point
2	Codeunit	31	NAV Library	Protected Object
3	Codeunit	32	Data Table Library	Protected Object
4	Codeunit	33	Excel Library	Protected Object
5	Codeunit	65	License Management	Protected Object
6	Codeunit	280	UEIE Management	Protected Object
7	Page	59	Field Mapping	
8	Page	9097	Values Lookup	
9	Page	9174	All Objects with Caption	
10	Page	9806	Fields Lookup	

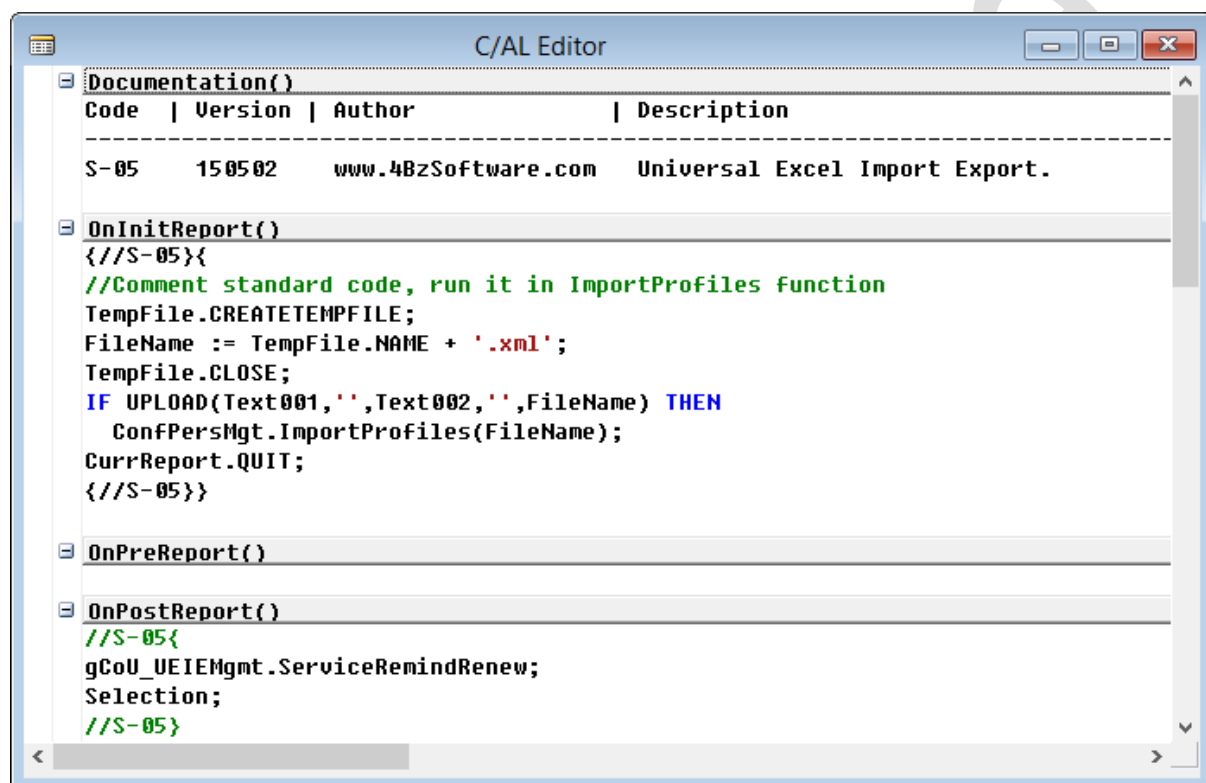
You can list them by filtering Version List column with string *S-05* in Object Designer of Development Environment.

4.2 Merge Objects

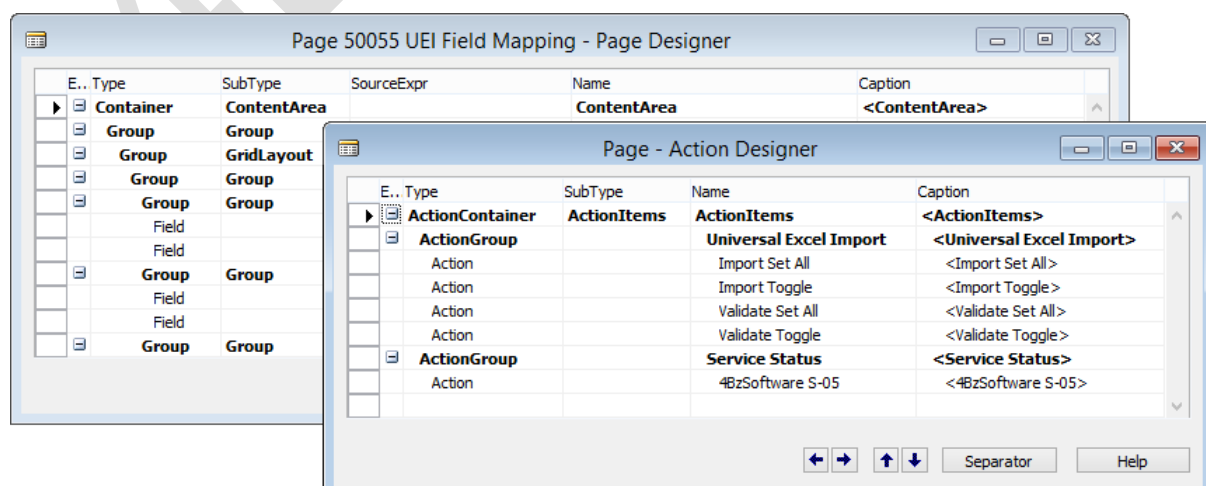
Protected Objects (Codeunit 31 to 280) must be merged by 4BzSoftware. First, you export these objects and send to 4BzSoftware. Second, we merge and protect them. Then, we send them back to you. Finally, you import with replace them in Development Environment. Please do not edit or compile Protected Objects, they will be crashed! In case it happen, reimport with replace them by Protected objects from us.

For other objects, if there is no modification before, you simply import with replace them. Otherwise, you merge them by searching for S-05 string, where they were edited:

Code is bounded by “//S-05{” and “//S-05}”. Search for “S-05” you can see all:



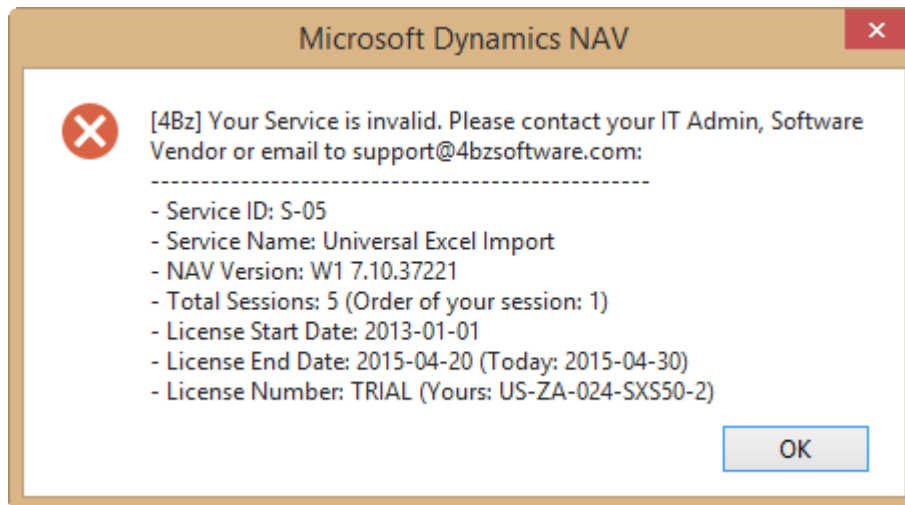
Pages often have new fields and actions. They sometimes got code inside:



1. Edit report 9172 – Import Profiles:
 - Set UseRequestPage to No.
 - Add variables from gCoU_UEIEMgmt to gInt_Select.
 - Add text constants from gTxC_UEIOption to gTxC_UEISelection.
 - Add functions from Selection to ImportProfiles.
 - Edit functions OnInitReport, OnPostReport.
2. Add codeunit 31 – NAV Library:
 - Add variables from gBol_ServicelsValid to gInt_StatusNextProcessed.
 - Add functions from ServicelsValid_Bol to LookupPage_Txt.
3. Add codeunit 32 – Data Table Library:
 - Add variables from gBol_ServicelsValid to gInt_ViewTotalRows.
 - Add functions from ServicelsValid_Bol to View_Previous.
4. Add codeunit 33 – Excel Library:
 - Add variables from gBol_ServicelsValid to CurrentCol.
 - Add functions from ServicelsValid_Bol to ReadCell_DateTime.
5. Add codeunit 65 – License Management:
 - Add variables from gPag_Text1 to gCoU_SessionMgmt.
 - Add functions from IsValid_Bol to GetSessionMgmt.
6. Add codeunit 201 – UEIE Management:
 - Add variables from gBol_ServicelsValid to gInt_Data_LeftColumnNo.
 - Add functions from ServicelsValid_Bol to Export_Data.
7. Add page 59 – Field Mapping:
 - Add variables from gCoU_NAVLib to gTxt_Exp_TopLeftCell.
 - Add text constants from gTxC_ImportingExcelData to gTxC_SelectValues.
 - Add functions from InsertRecord to GetText.
 - Add controls from “ContentArea” to “Export Primary Key Field”.
 - Set “Validate”, “Export Excel Column Order” as FreezeColumnID.
 - Add actions from “ActionItems” to “Set Export from Excel file”.
 - Edit triggers OnAfterGetRecord, OnModifyRecord, OnQueryClosePage.
8. Add page 9097 – Values Lookup:
 - Add variables from from gCoU_NAVLib to gBol_Visible6.
 - Add functions from SetLookupValue to LoadData.
 - Add controls from “ContentArea” to “Cell Value as Text”.
 - Add actions from “ActionItems” to “Load Data”.
 - Edit trigger OnOpenPage.
9. Edit page 9174 – All Objects with Caption:
 - Add text constants from gTxC_ServiceValid to gTxC_ReadingExcelCell2.
 - Add functions from GetSelectionFilter to GetText.
10. Edit page 9806 – Fields Lookup:
 - Add controls from "<Type >" to "<Class>".
 - Add function GetSelectionFilter.

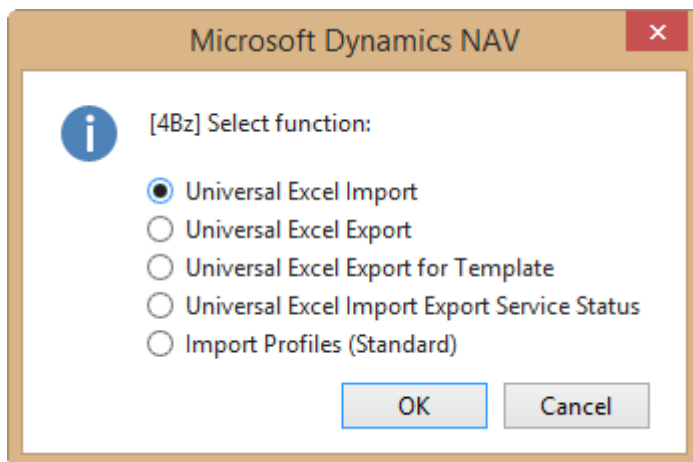
4.3 Troubleshoot

Symptom 1 - Service does not run and Service Status is invalid:



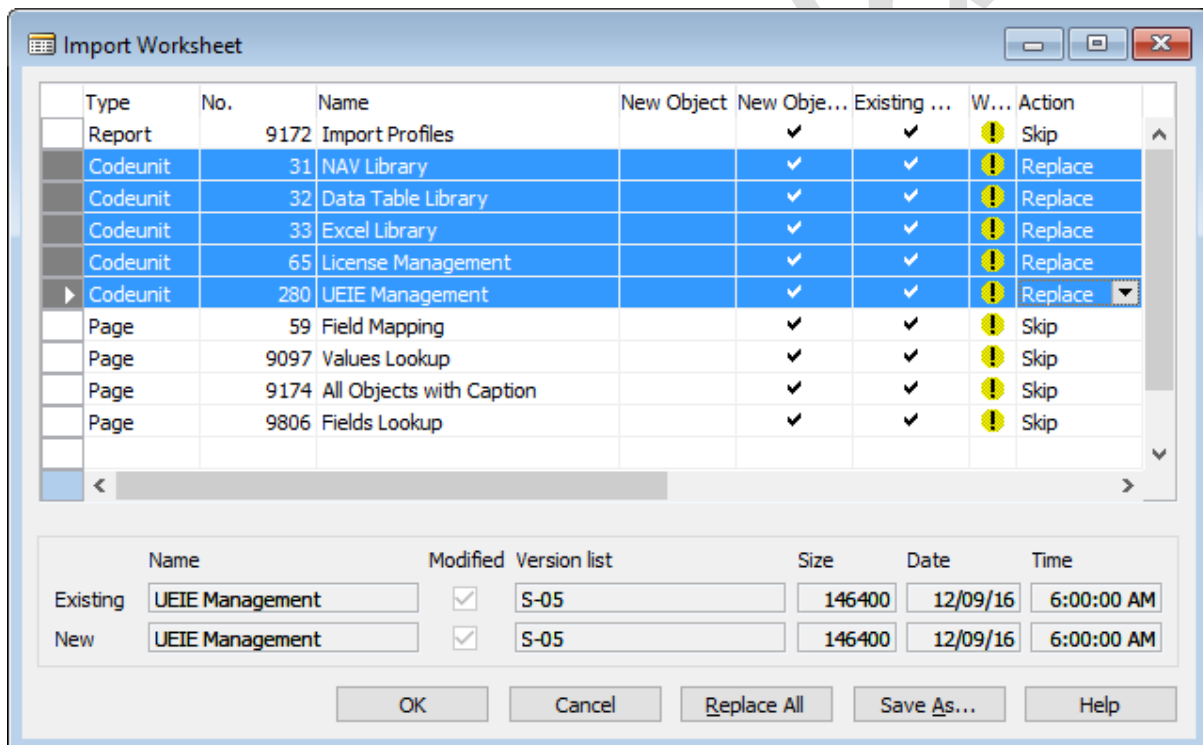
Reason: Service is expired by License End Date or License Number is incorrect.

Solution: Contact IT Admin for support. If cannot solve, IT Admin should contact Software Vendor.

Symptom 2 - Service does not run:

Reason: Protected Objects were edited and compiled.

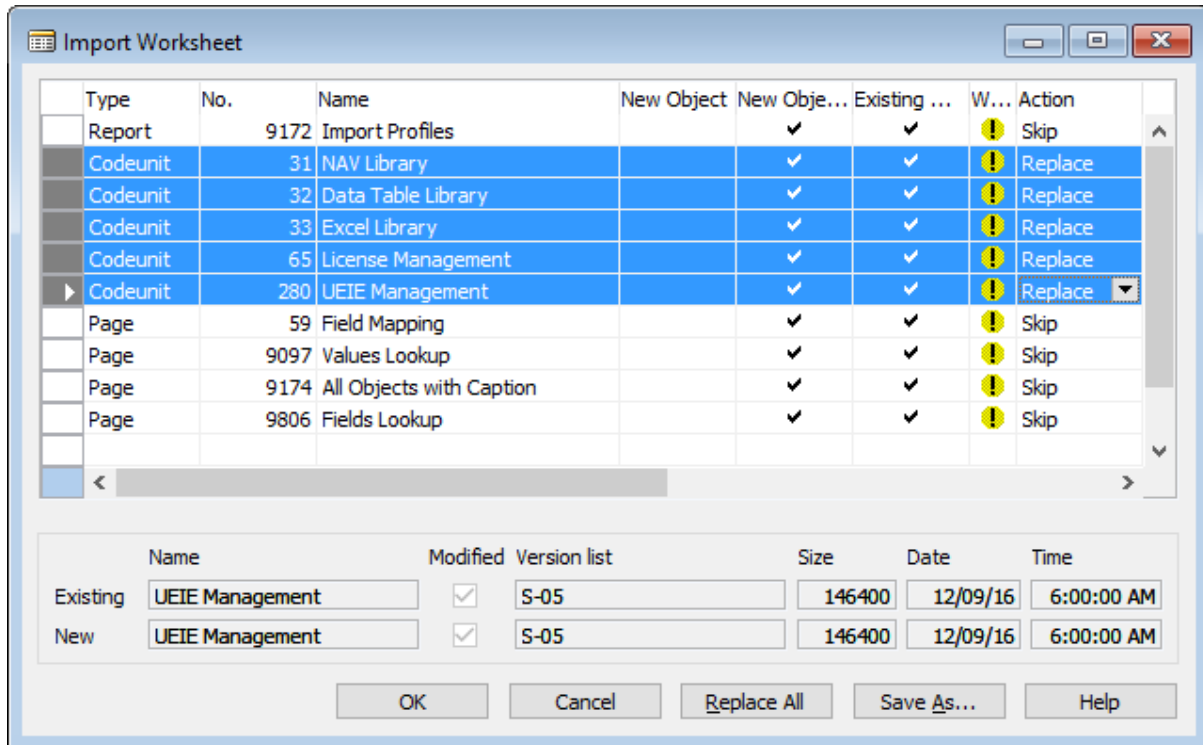
Solution: Reimport with replace them by Protected objects from 4BzSoftware:



Symptom 3 - Protected Objects were compiled accidentally:

Reason: Protected Objects were compiled accidentally.

Solution: Reimport with replace them by Protected objects from 4BzSoftware:

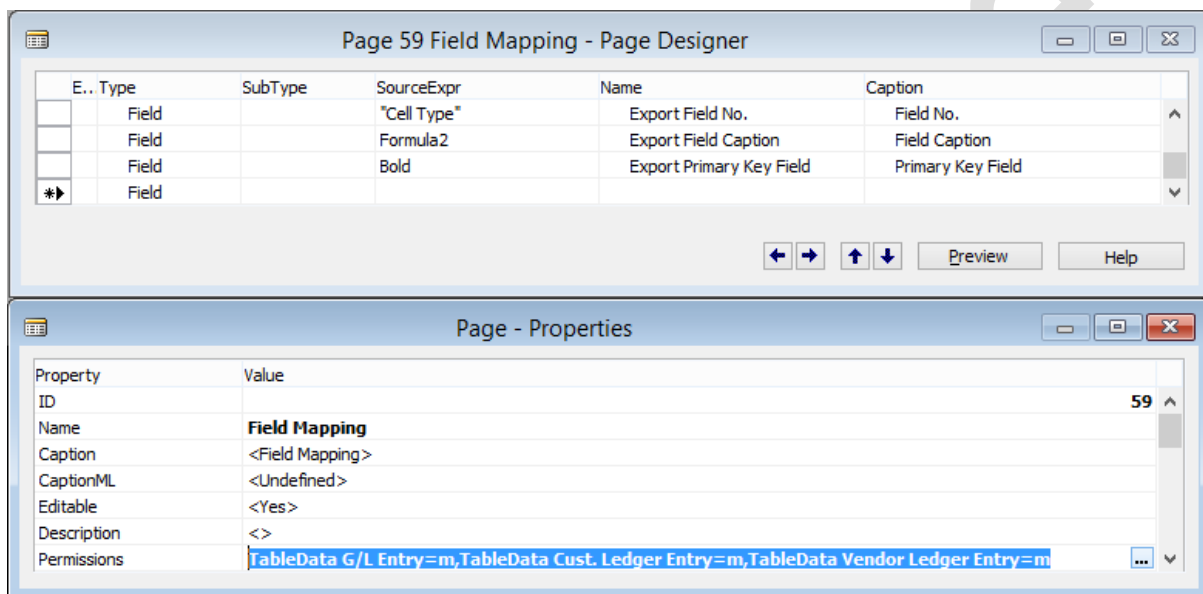


Symptom 4 - Implement Indirect Permission:

Reason: Supporters sometimes need to update information such as External Document No. or custom Fields of Ledger Entries (G/L Entry, Cust. Ledger Entry, Vendor Ledger Entry...). While NAV Service is running with Customer License, you cannot update those Ledger Entries due to Indirect Insert/Modify Permission of Customer License.

Solution: Add Indirect Permission to Page 59 Field Mapping with NAV Partner License, follow steps:

1. Run Development Environment with NAV Partner License.
2. Export Page 59 Field Mapping for backup.
3. Design Page 59 Field Mapping, open Page Property (new line) and Add Indirect Permission:

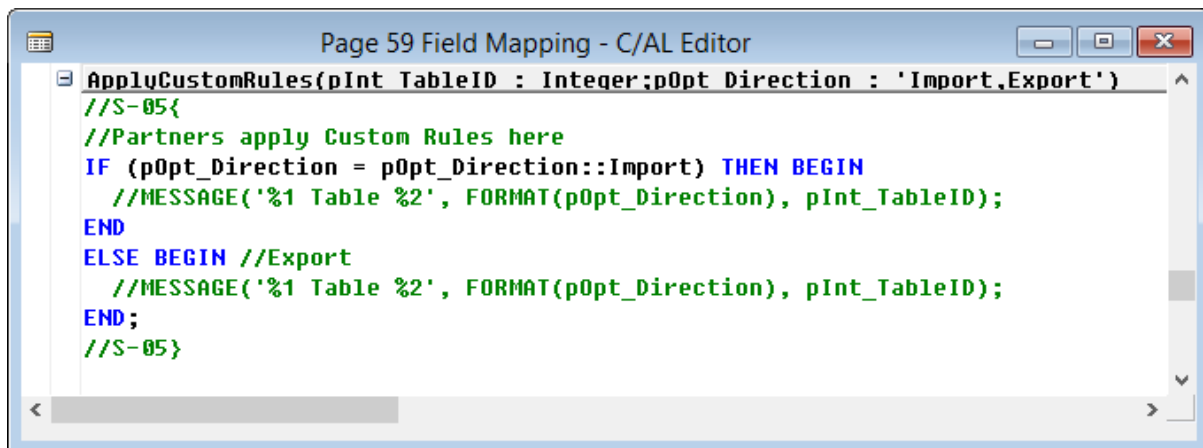


4. Run NAV Client and update needed information.
5. Import back Page 59 Field Mapping at step 2.

Symptom 5 - Apply Custom Permission:

Reason: A customer of our NAV Partner applies Custom Permission. For example, both User A and B have Read and Modify Permissions on Customer TableData (System Standard Permission), but they do not allow User A to see and update Credit Limit of Customers by Customization. Our tool follows System Standard Permission, as a result, User A can export or update Credit Limit of Customers.

Solution: Invoke the Customization in ApplyCustomRules function of Page 59 Field Mapping:

The image shows a screenshot of a software window titled "Page 59 Field Mapping - C/AL Editor". The window contains a code editor with the following text:

```
ApplyCustomRules(pInt TableID : Integer;pOpt Direction : 'Import,Export')
//S-05{
//Partners apply Custom Rules here
IF (pOpt_Direction = pOpt_Direction::Import) THEN BEGIN
    //MESSAGE('%1 Table %2', FORMAT(pOpt_Direction), pInt_TableID);
END
ELSE BEGIN //Export
    //MESSAGE('%1 Table %2', FORMAT(pOpt_Direction), pInt_TableID);
END;
//S-05}
```

The code is written in a C/AL-like syntax. The window has a standard Windows-style title bar with minimize, maximize, and close buttons. A large, diagonal watermark reading "4BZSoftware" is visible across the lower half of the page.

4.4 Version Control

Version (YYMMDD)	Description
150502	Release - version 7.00 (2013) to 8.00 (2015) <ol style="list-style-type: none"> 1. Navision objects for version 7.00 (2013). 2. Navision objects for version 7.10 (2013 R2). 3. Navision objects for version 8.00 (2015).
150516	Enhance - new feature <ol style="list-style-type: none"> 1. Export data to Excel for Import Data Template.
150524	Enhance - new feature <ol style="list-style-type: none"> 1. Export: new Properties of Fields row for preparing data. 2. Import: adjust default Data Range as new Properties of Fields row.
160210	Release - version 7.00 (2013) to 9.00 (2016) <ol style="list-style-type: none"> 1. Navision objects for version 9.00 (2016). Change - objects <ol style="list-style-type: none"> 1. Not use Codeunits 44, 5370, 5618, 50007 and Page 358, 50055. 2. Use Codeunits 31, 32, 33, 280 and Page 9174, 59. Update - new symptoms <ol style="list-style-type: none"> 1. Symptom 4 - Implement Indirect Permission. 2. Symptom 5 - Apply Custom Permission. Enhance - new feature <ol style="list-style-type: none"> 1. Export data to Excel with: <ul style="list-style-type: none"> - Dimension information. - Select desired Fields to export. - Arrange Excel Column Order. - Adjust auto Excel Format Value. - Filter data on Normal, FlowField and FlowFilter Fields. - Define Excel Data Header Caption. - Specify Excel Sheet Name. - Set Number of Rows to be exported. - Indicate Excel Top Left Cell, and include/exclude Header. 2. Optimize tool to manage memory better and increase performance. 3. New approach and technic to handle large Excel file.
160902	Enhance - new feature <ol style="list-style-type: none"> 1. Import: optimize tool to increase performance. 2. Export: drill down Filter Expression to look up and select desired value. 3. Export: assist edit Filter Expression on Option and Boolean field data type. 4. Enable Partners to localize tool, all use captions instead of names. 5. Combined License, simpler management for both Partners and Customers. 6. More interactive dialog status allows users to stop process at any time.
170331	Enhance - new feature <ol style="list-style-type: none"> 1. Export: optimize tool for database table lookup. 2. Export: assist edit Filter Expression with Values Lookup page. 3. Measure runtime for both Import and Export.
180319	1. Release tool for NAV from 2013 to 2018 (version 070 to 110).
190122	1. Release tool for Business Central on Premise, version 130.
190722	1. Release tool for Business Central on Premise, version 140.

5. Pricing

Please contact us via email support@4bzsoftware.com

or visit www.4bzsoftware.com/product/universal-excel-import-export.html

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This is last page.

Thank you!