

Table Fields Unicode Caption

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4BZSoftware

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1. Introduction

It is really good news that Microsoft Dynamics Navision 2013 supports Unicode! However, it is only Unicode Data Input. The Development Environment is still the same as Classic Client. We cannot input Unicode Characters, Text Constants in C/AL Editor or Table CaptionML property ... to localize the system, especially systems of multinational companies.

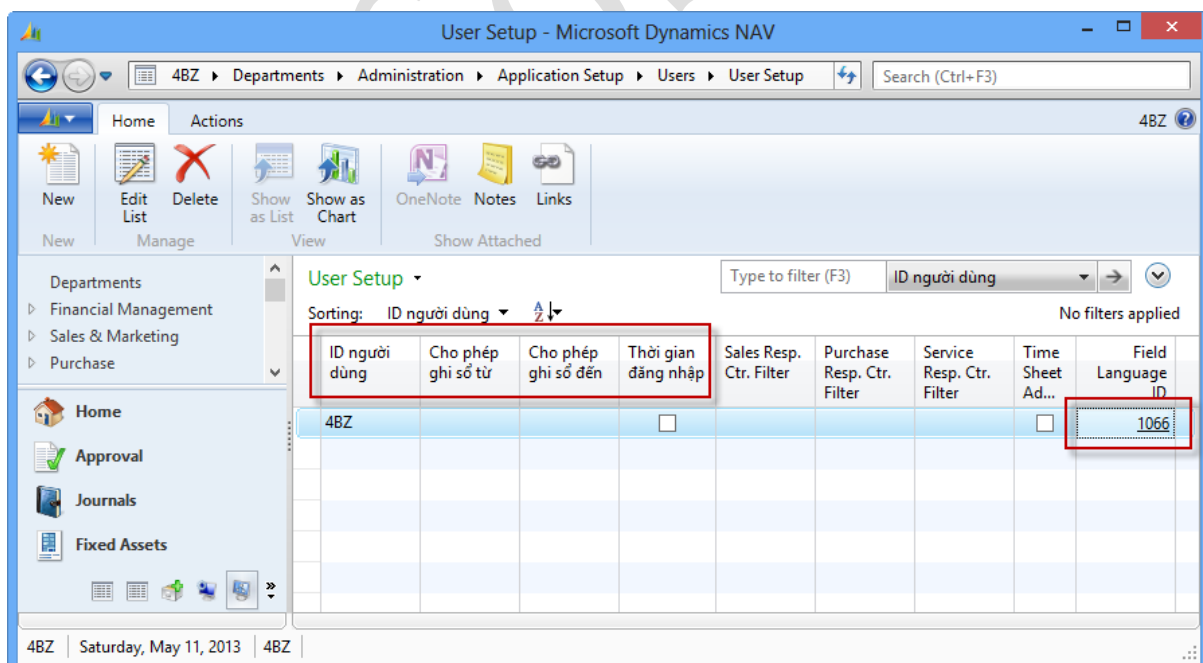
4BzSoftware has 2 solutions to cover it. We would like to introduce you the “Unicode Table Fields Caption” solution (Service S-001) which is more flexible and easier to use. You don’t need to download and install any Navision Localization Package to work with desired Table Field Caption Language, and neither restart Navision Service. Simply select Field Language ID in User Setup page and re-login system, the new language affects immediately.

Beside this service, 4BzSoftware also has other useful customizations. You can try them all at our SkyDrive link <https://skydrive.live.com/?cid=1322D544FED91559&id=1322D544FED91559%21107>. All Services are available for Trial with first top 2 sessions and expired by License End Date.

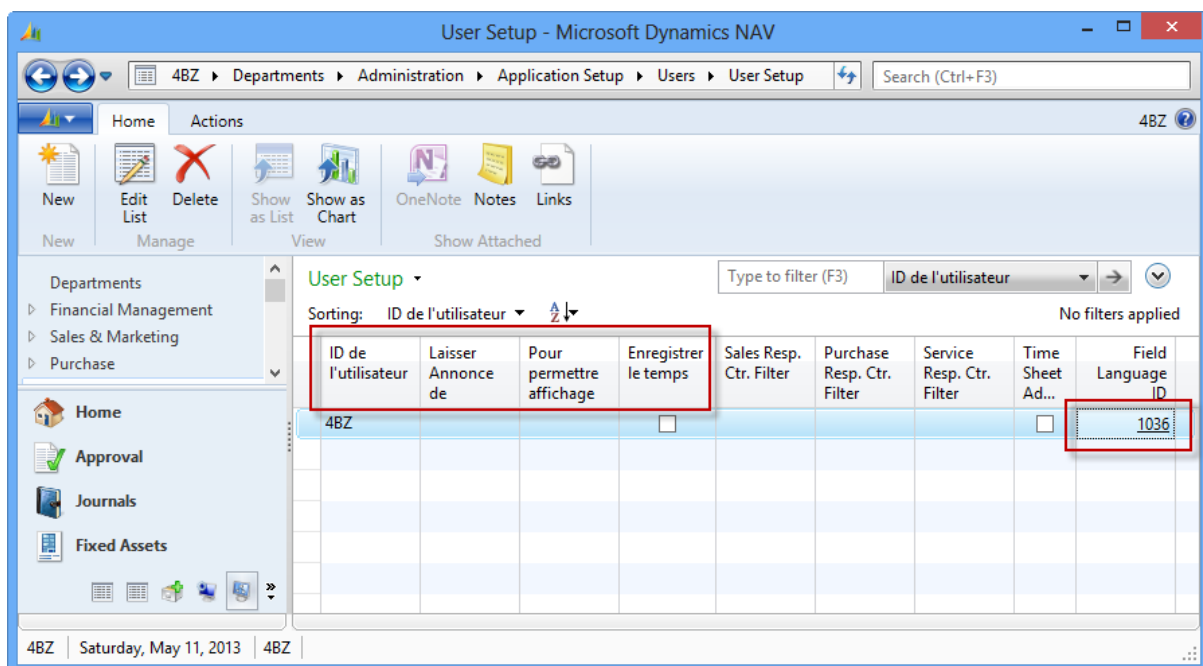
We make every effort to ensure that there are no errors. However, no one is perfect, and mistakes do occur. If you find an error or have any idea, we would be very grateful for your feedback. Hope with our services, we can help you to improve business and contribute to success of your company.

Finally, thank you to share it with other companies or customers. We have good policy to grow with Partners and Customers. Your success is our success!

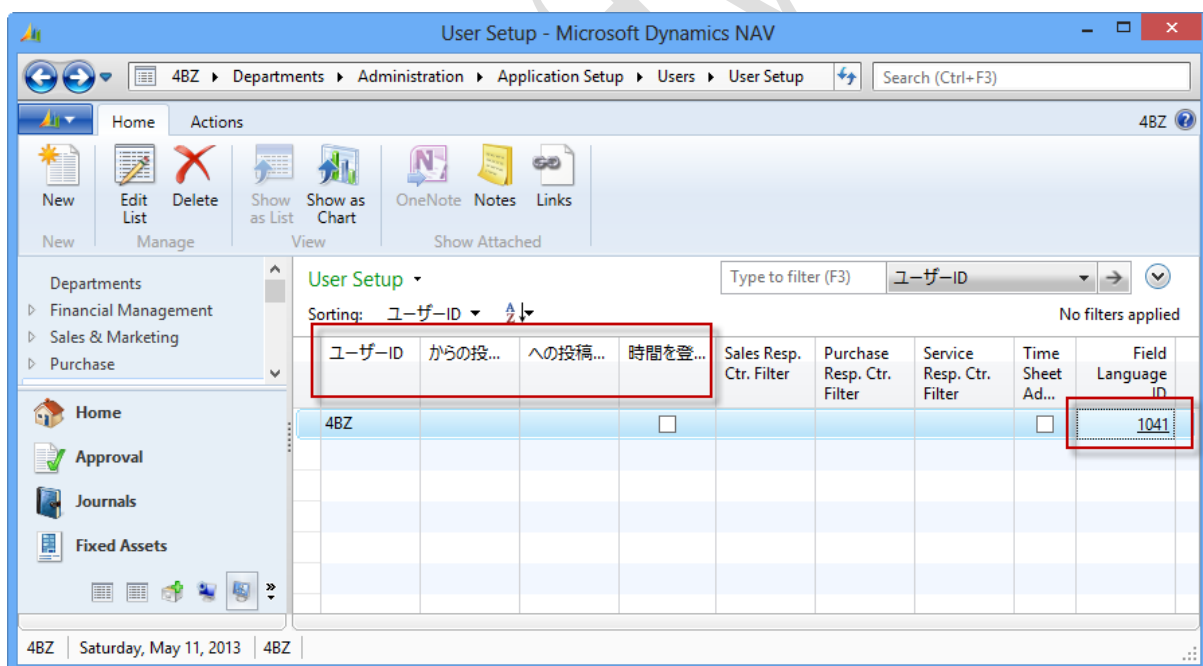
1066 - Vietnamese (Vietnam):



1036 - French (France):



1041 - Japanese (Japan):



2. How to install

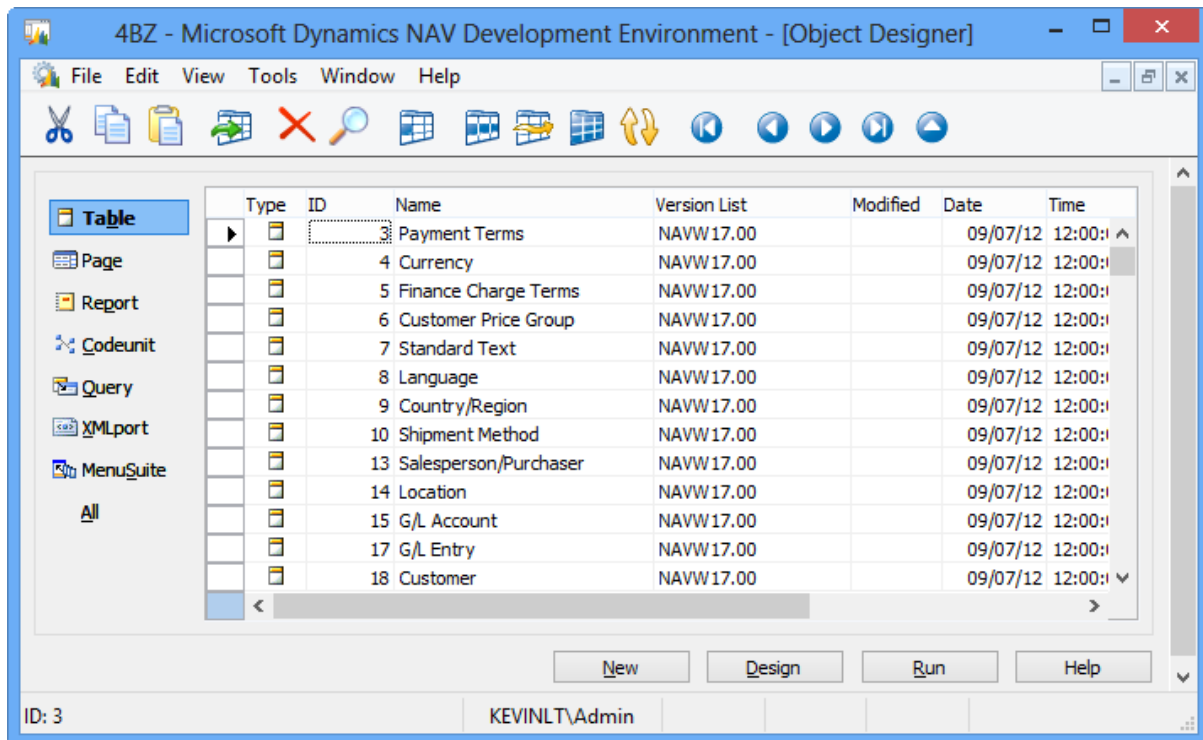
The customization includes below Navision Objects:

Type	ID	Name	Note
Table	91	User Setup	
Table	50009	Field Translation	
Codeunit	41	TextManagement	Encrypted Object, be merged by 4BzSoftware
Codeunit	42	CaptionManagement	Encrypted Object, be merged by 4BzSoftware
Codeunit	43	LanguageManagement	Encrypted Object, be merged by 4BzSoftware
Codeunit	824	Encryption Mgt.	Encrypted Object, be merged by 4BzSoftware
Page	119	User Setup	
Page	50009	Field Translation	

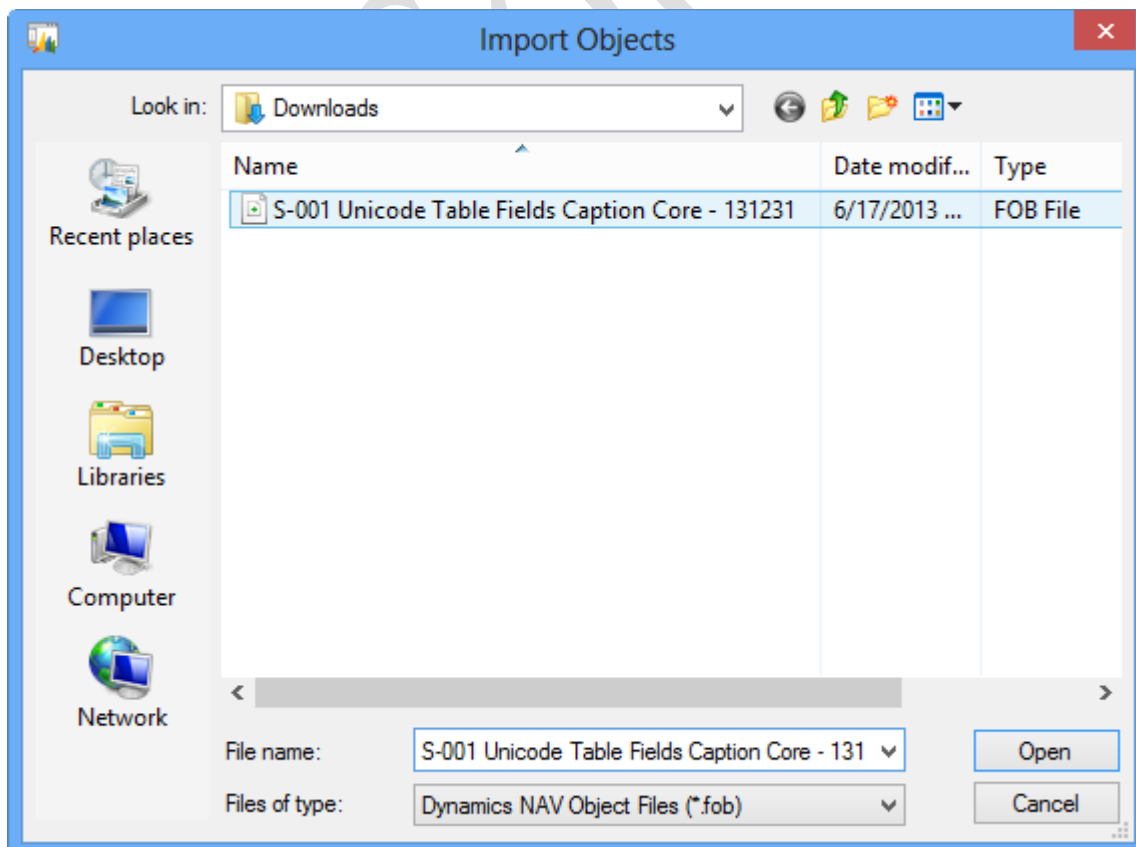
If all are standard objects, you can import them and enjoy system immediately. Otherwise, above Navision Objects should be merged (please refer to section 4 Technical Point of View for merging). Note that Encrypted Objects (Codeunit 41, 42, 43, 824) should be merged by 4BzSoftware. Please do not edit or compile Encrypted Objects, they will be crashed (please refer to section 4 to cover)!

2.1 Import Navision Objects

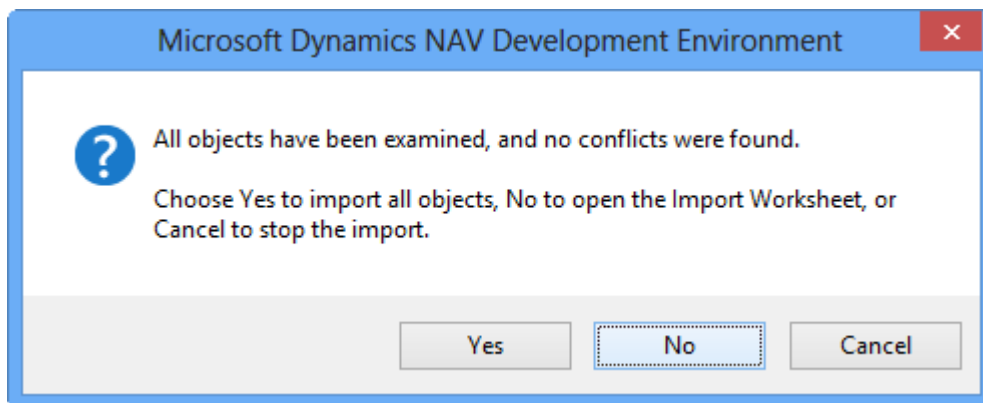
Open Object Designer in Development Environment (after login database, press Shift+F12):



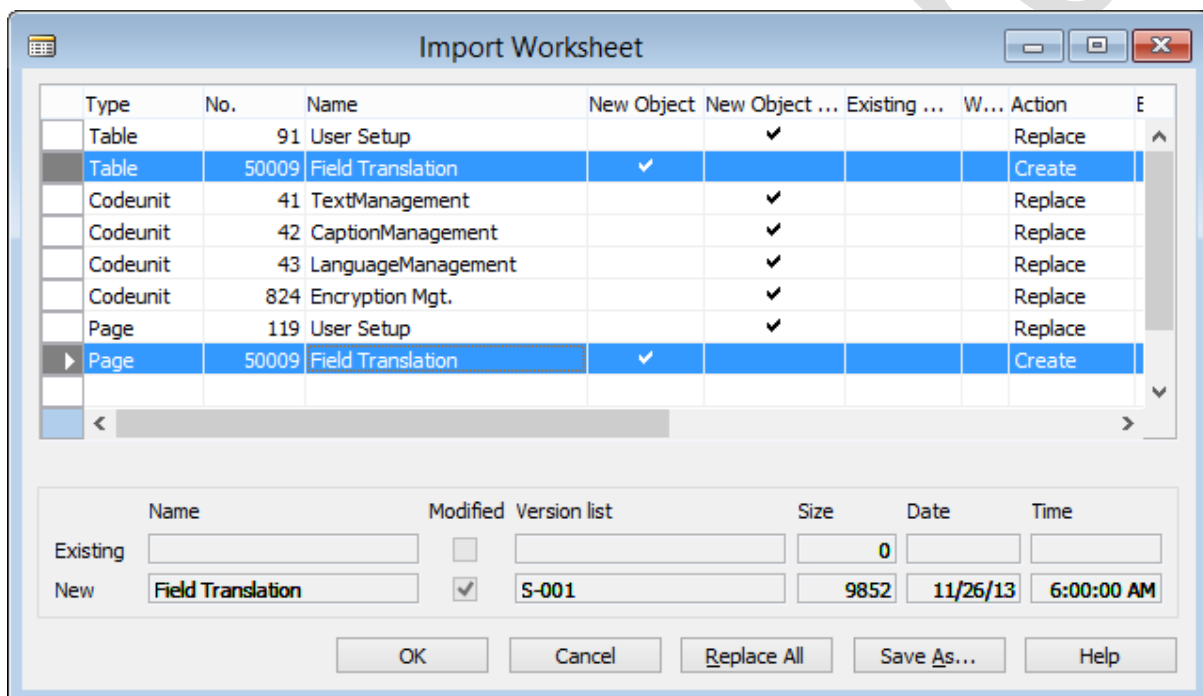
Click File → Import... → Browse Service Navision Objects in Import Objects dialog → Click Open:



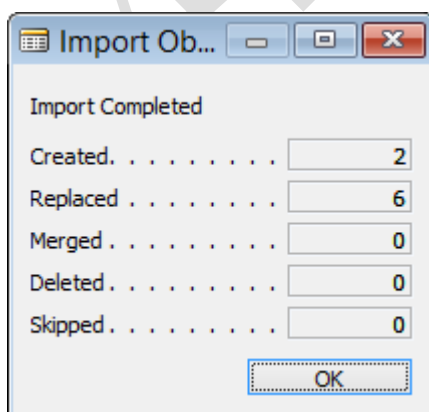
Select No to open Import Worksheet due to conflicted objects:



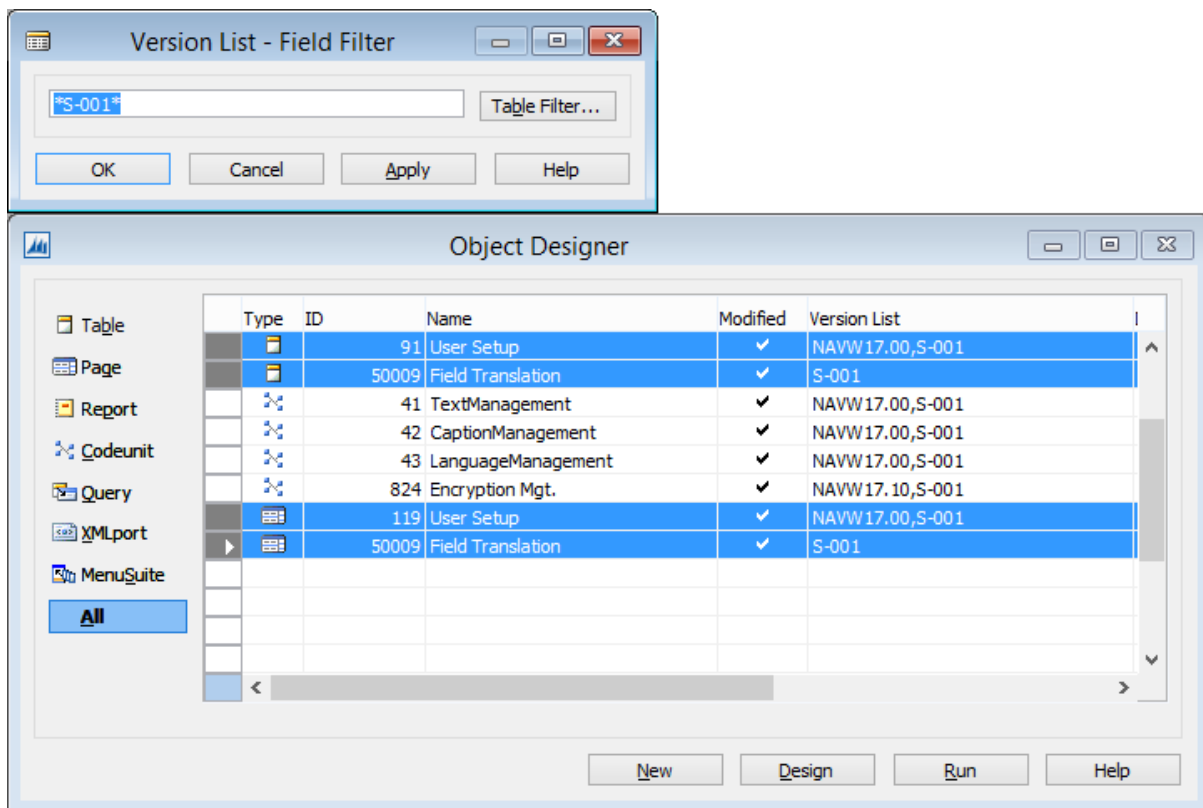
Click Replace All button and then click OK:



Import Objects dialog result:



You should filter and compile objects different from codeunit. Filter Version List with string *S-001*:

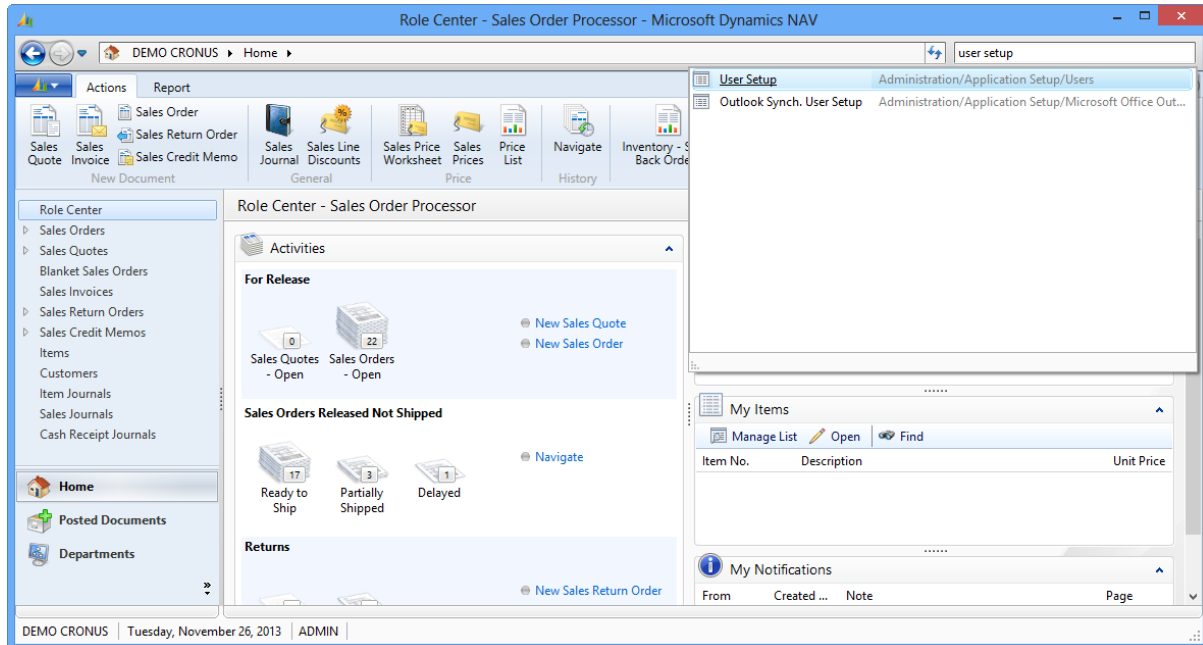


This is finish importing Navision Objects. To make sure, you should check Service Status in next step.

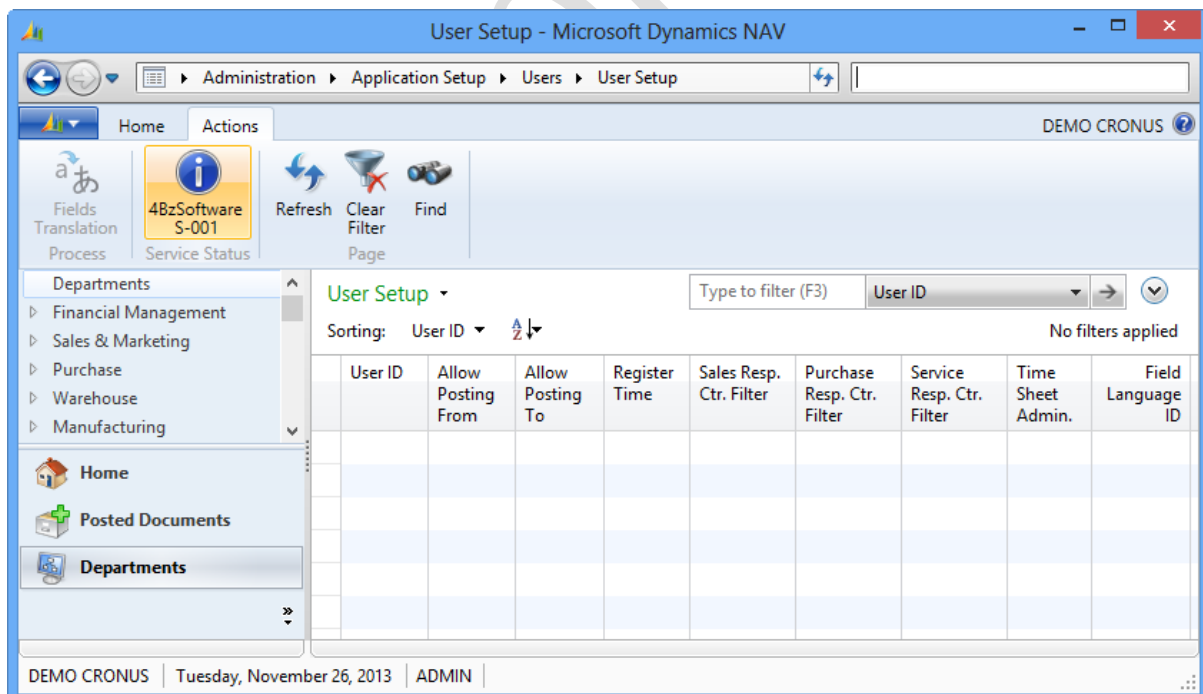
2.2 Check Service Status

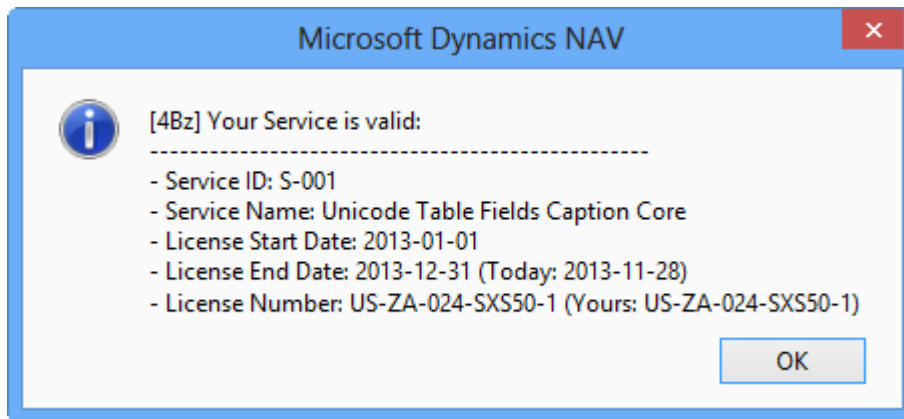
After importing Navision Objects, you should check Service is valid or not.

Open User Setup list page by using search function of system:



Click on Ribbon → Actions → Service Status → 4BzSoftware S-001 as below picture:





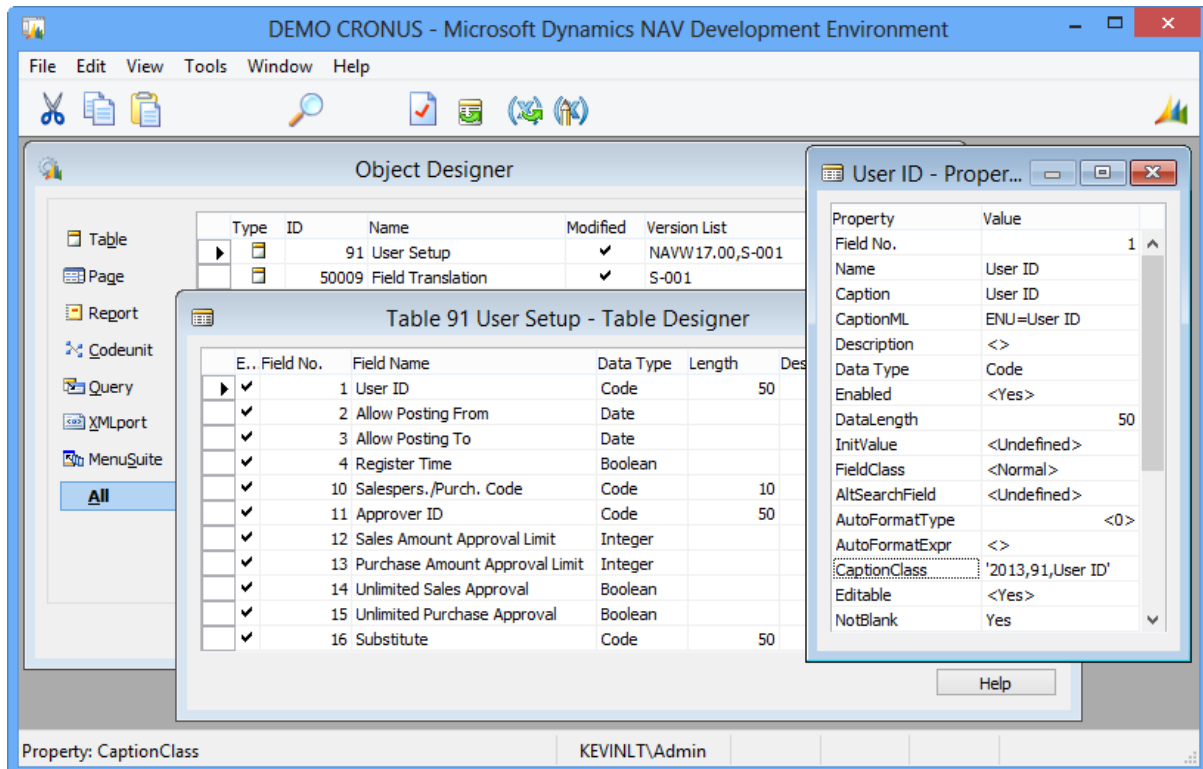
Please note that Trial (License Number: TRIAL) is available for first top 2 sessions only!

No session limitation for Licensed Number.

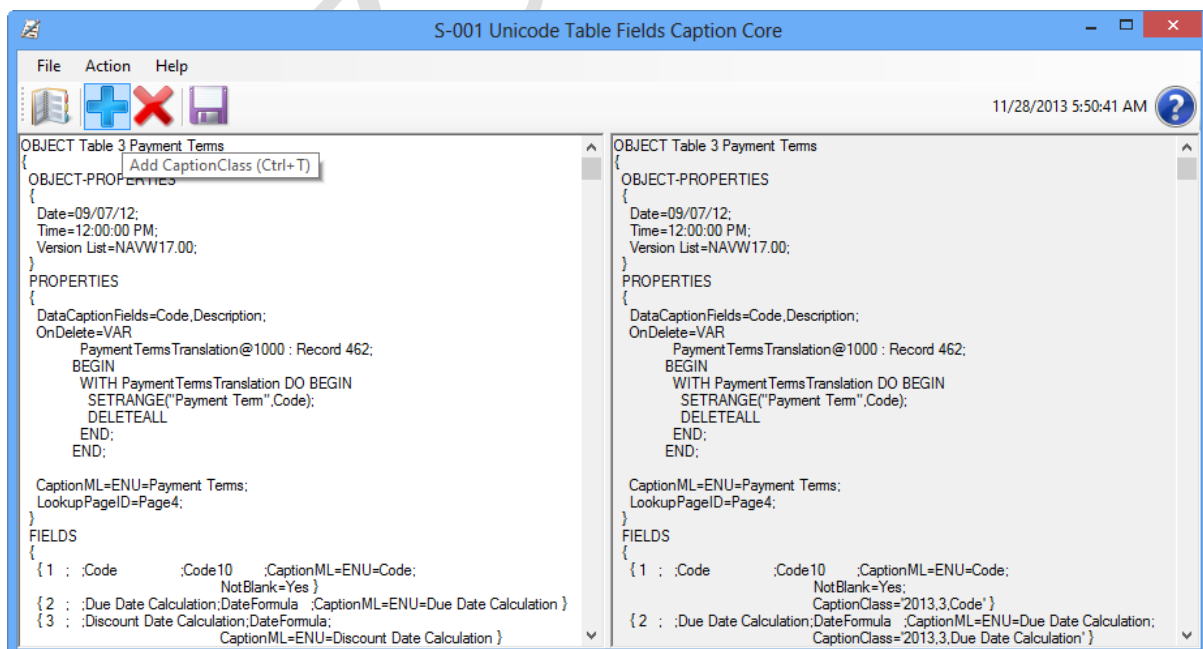
3. How to use

3.1 Add CaptionClass to Fields of Tables

You have to add CaptionClass string to Fields of using Tables. Format is '2013,Table ID,Field Name':

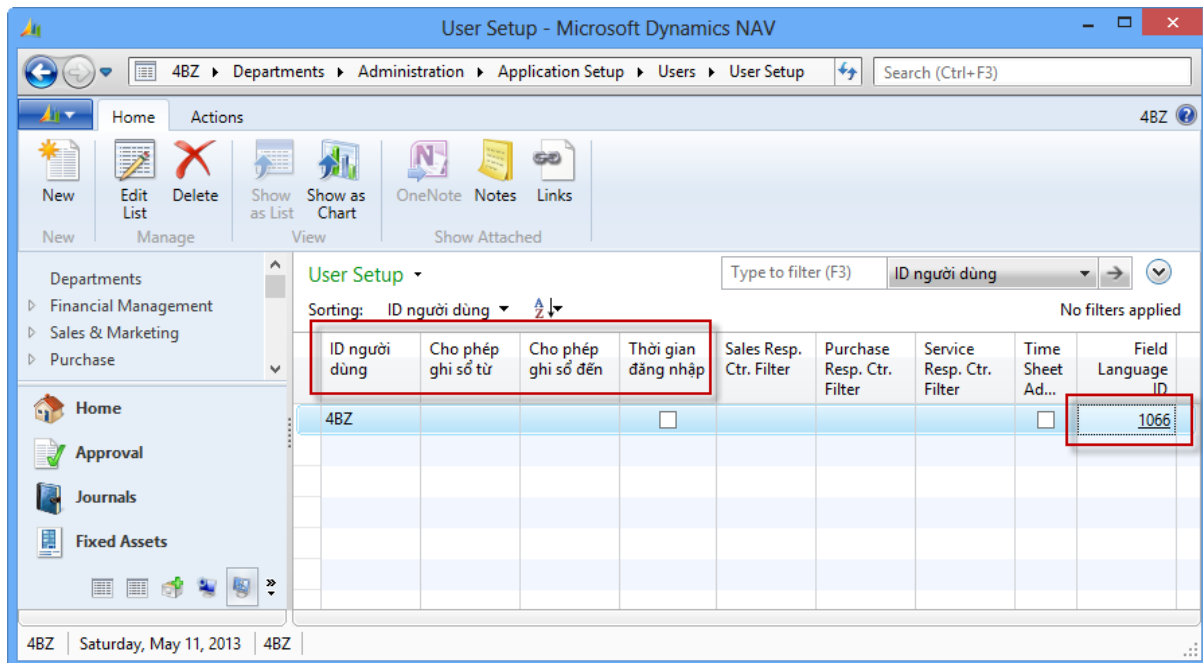


You can use below tool to add/remove CaptionClass for Record Objects in text file (Export Record Objects in text file, add CaptionClass and save as new text file by tool, import new file and compile):



3.2 Select your desired Field Language

Open User Setup list page, you should create new User ID if it is not existed, then select user desired Field Language in Field Language ID as below:



3.3 Translate Field Caption yourself

4BzSoftware do not provide translation service. However, there is function helping you to add new English names of fields for translation. You should not spend time to manually collect them.

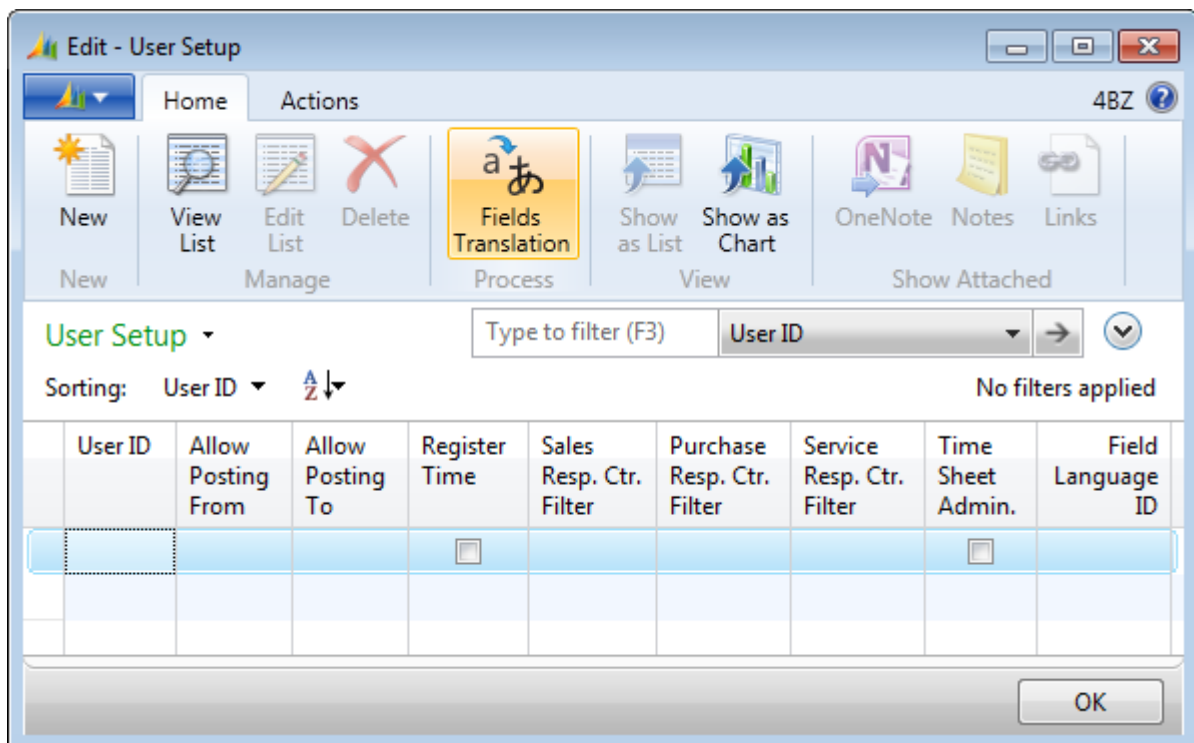
You can utilize Google Translation (<https://translate.google.com>) and directly Copy & Paste rows from Excel to Navision 2013 to aid you this step. For more than thousand rows, it is recommended to use Data Migration for importing translation from Excel to Navision.

	A	B	C	D	E	F	G	H
1	Language ID	Table ID	Field ID	English Text	Translated Text	Translated	Table Name	Language Name
2		1036		1 User ID	ID de l'utilisateur	Yes		French (France)
3		1036		2 Allow Posting From	Laisser Annonce de	Yes		French (France)
4		1036		3 Allow Posting To	Pour permettre affichage	Yes		French (France)
5		1036		4 Register Time	Enregistrer le temps	Yes		French (France)
6		1041		1 User ID	ユーザー ID	Yes		Japanese (Japan)
7		1041		2 Allow Posting From	からの投稿を許可	Yes		Japanese (Japan)
8		1041		3 Allow Posting To	への投稿を許可	Yes		Japanese (Japan)
9		1041		4 Register Time	時間を登録	Yes		Japanese (Japan)
10		1049		1 User ID	ID пользователя	Yes		Russian (Russia)
11		1049		2 Allow Posting From	Разрешить Средняя С	Yes		Russian (Russia)
12		1049		3 Allow Posting To	Разрешить размещение на	Yes		Russian (Russia)
13		1049		4 Register Time	Регистрация Время	Yes		Russian (Russia)
14		1054		1 User ID	ผู้ใช้ ID	Yes		Thai (Thailand)
15		1054		2 Allow Posting From	อนุญาตให้โพสต์จาก	Yes		Thai (Thailand)
16		1054		3 Allow Posting To	อนุญาตให้โพสต์	Yes		Thai (Thailand)
17		1054		4 Register Time	ลงทะเบียนเวลา	Yes		Thai (Thailand)
18		1066		1 User ID	ID người dùng	Yes		Vietnamese (Vietnam)
19		1066		2 Allow Posting From	Cho phép ghi sổ từ	Yes		Vietnamese (Vietnam)
20		1066		3 Allow Posting To	Cho phép ghi sổ đến	Yes		Vietnamese (Vietnam)
21		1066		4 Register Time	Thời gian đăng nhập	Yes		Vietnamese (Vietnam)
22		1066		5 No.	Số	Yes		Vietnamese (Vietnam)
23		1066	18	1 No.	Khách hàng số	Yes		Vietnamese (Vietnam)

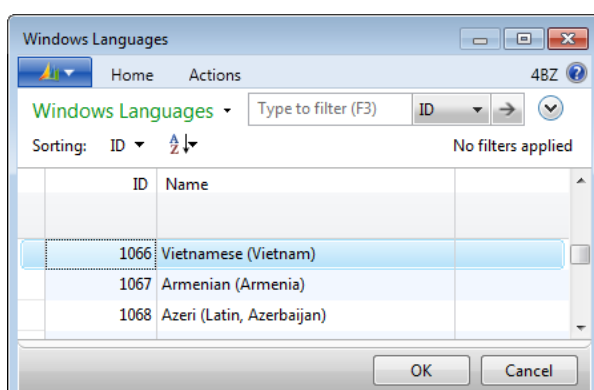
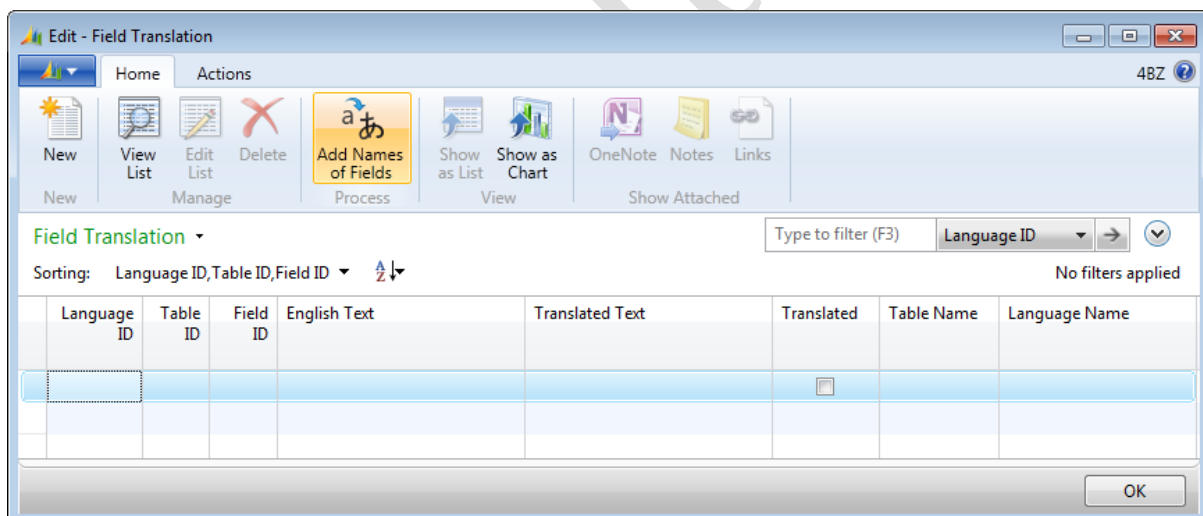
There are around 4,500 unique English names of fields. If you want to utilize translation for same fields' names such as "No." of Customer, Vendor and Item (one translation for 3 same fields' names), you do not enter Table ID as lines 2 to 22 in above picture. Vice versa, if you want to make specified meaning for field name such as "No." of Customer table, you should enter Table ID as line 23.

System firstly searches translation by specified table. If Translated Text is different from Field Name, it stops and returns the Translated Text. Otherwise, it continues to search for common translation (without Table ID).

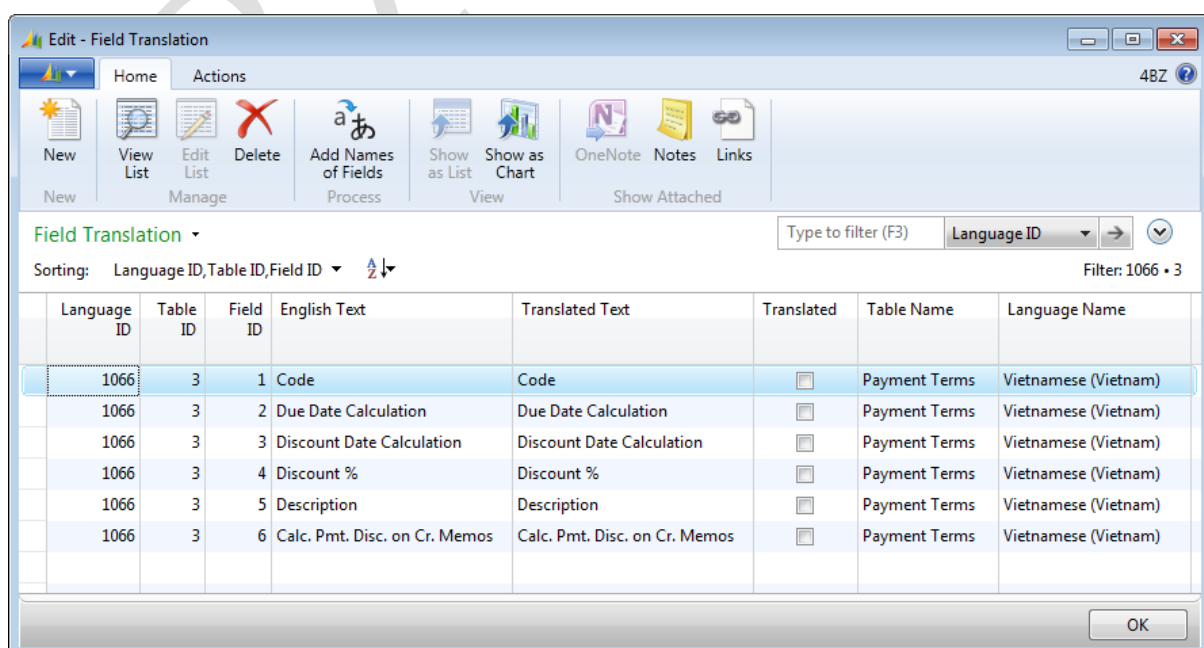
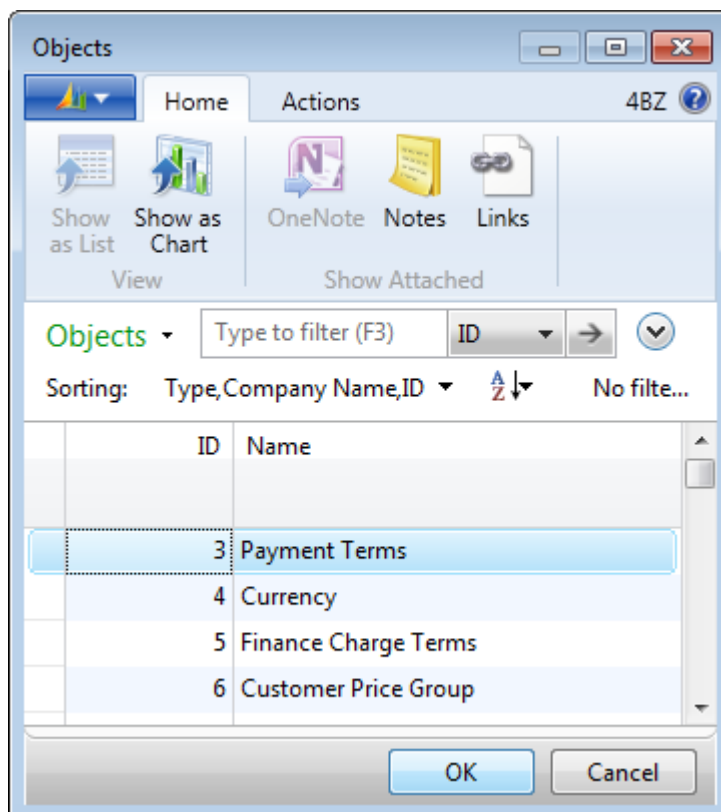
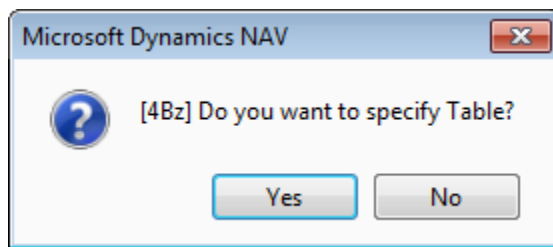
To add new captions, open User Setup page, click Ribbon → Home → Process → Fields Translation:



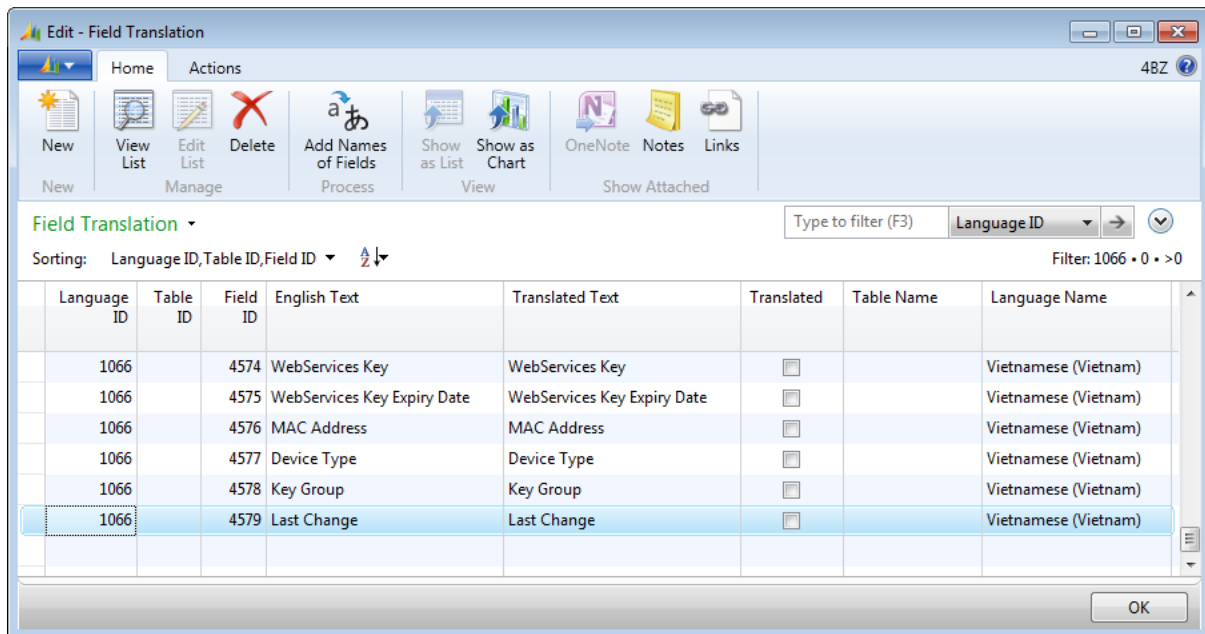
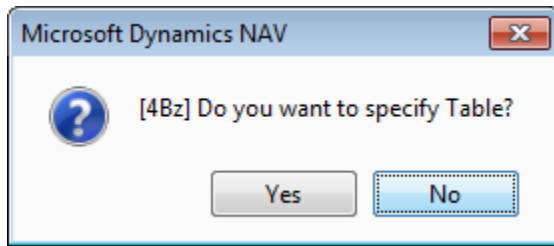
Field Translation list page appeared, click on Ribbon → Home → Process → Add Names of Fields:



Select "Yes" if you want to specify table:



Select "No" if you want to add new common Names of Fields:



4. Technical Point of View

4.1 Navision Objects

The customization includes below Navision Objects:

Type	ID	Name	Note
Table	91	User Setup	
Table	50009	Field Translation	
Codeunit	41	TextManagement	Encrypted Object, be merged by 4BzSoftware
Codeunit	42	CaptionManagement	Encrypted Object, be merged by 4BzSoftware
Codeunit	43	LanguageManagement	Encrypted Object, be merged by 4BzSoftware
Codeunit	824	Encryption Mgt.	Encrypted Object, be merged by 4BzSoftware
Page	119	User Setup	
Page	50009	Field Translation	

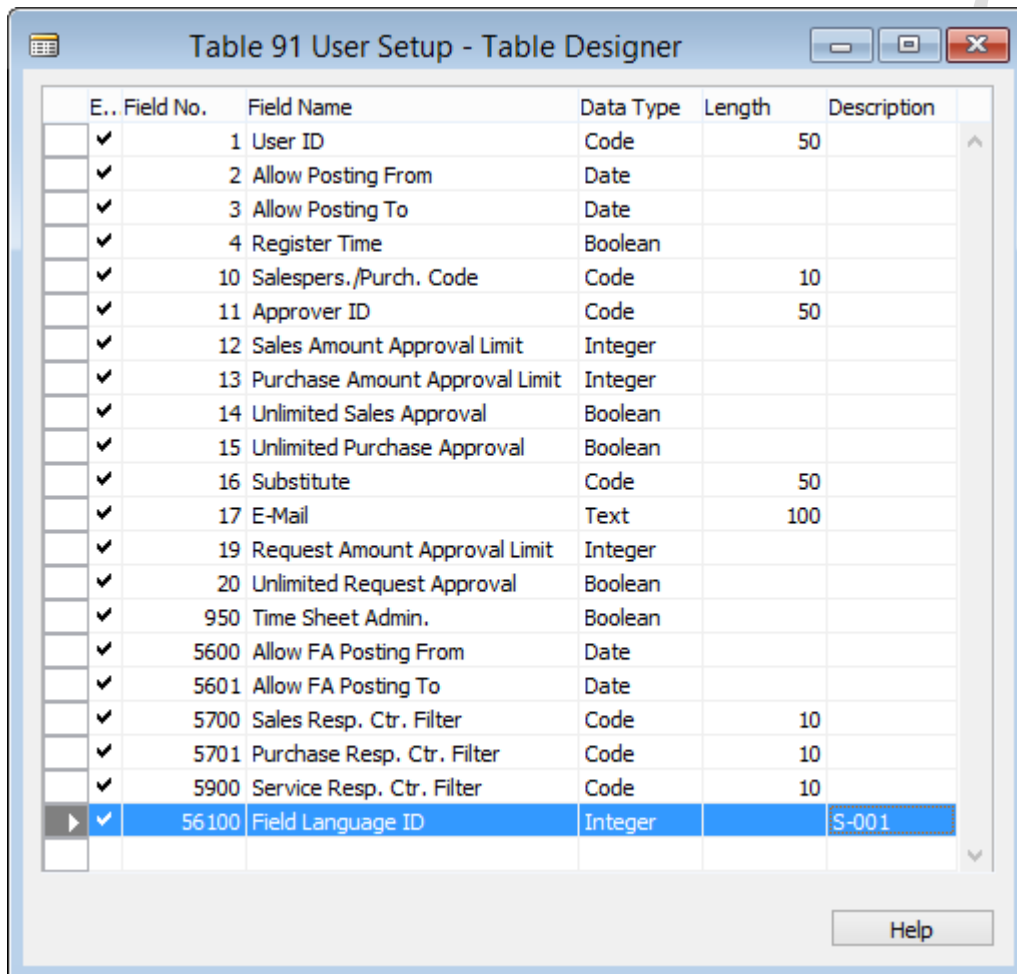
You can list them all by filtering Version List column with string *S-001* in Object Designer of Development Environment.

4.2 Merge Objects

Encrypted Objects (Codeunit 41, 42, 43, 824) must be merged by 4BzSoftware. First, you export these objects and send to 4BzSoftware. Second, we merge and encrypt them. Then, we send them back to you. Finally, you import with replace them in Development Environment. Please do not edit or compile Encrypted Objects, they will be crashed! In case it happen, reimport with replace them by encrypted 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-001 string, where they were edited:

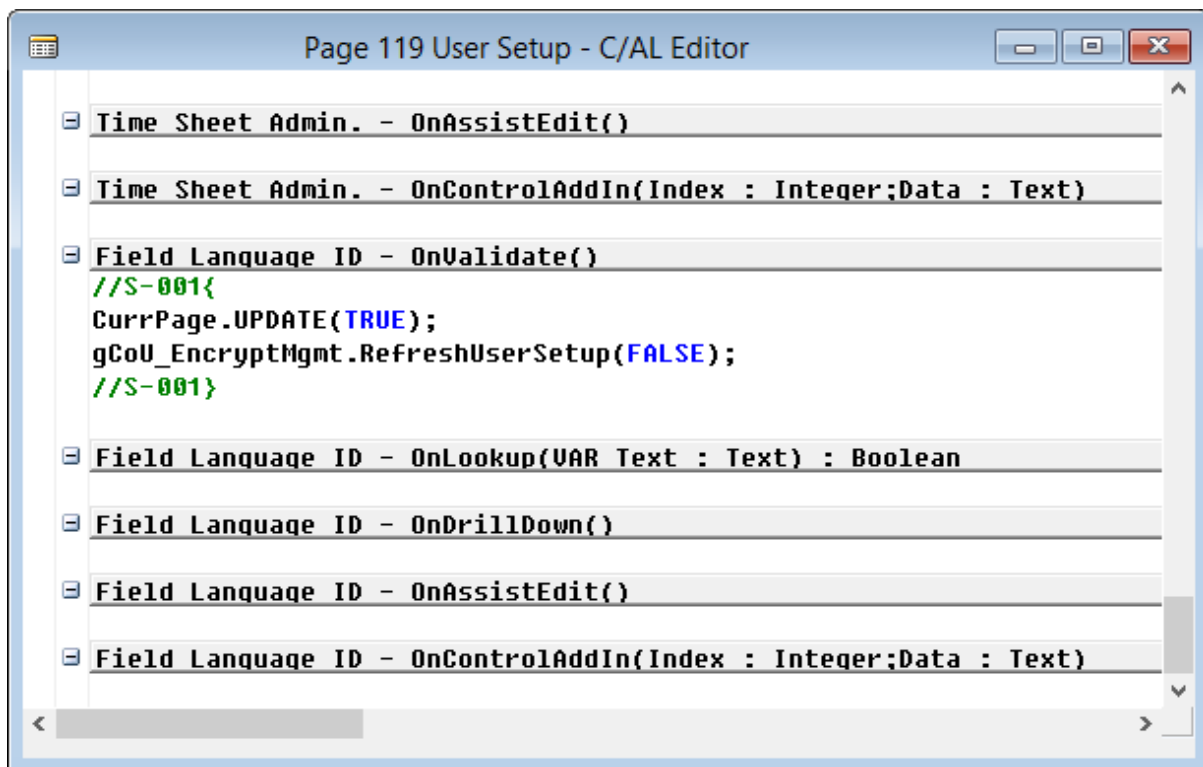
Tables always have new fields and code inside:



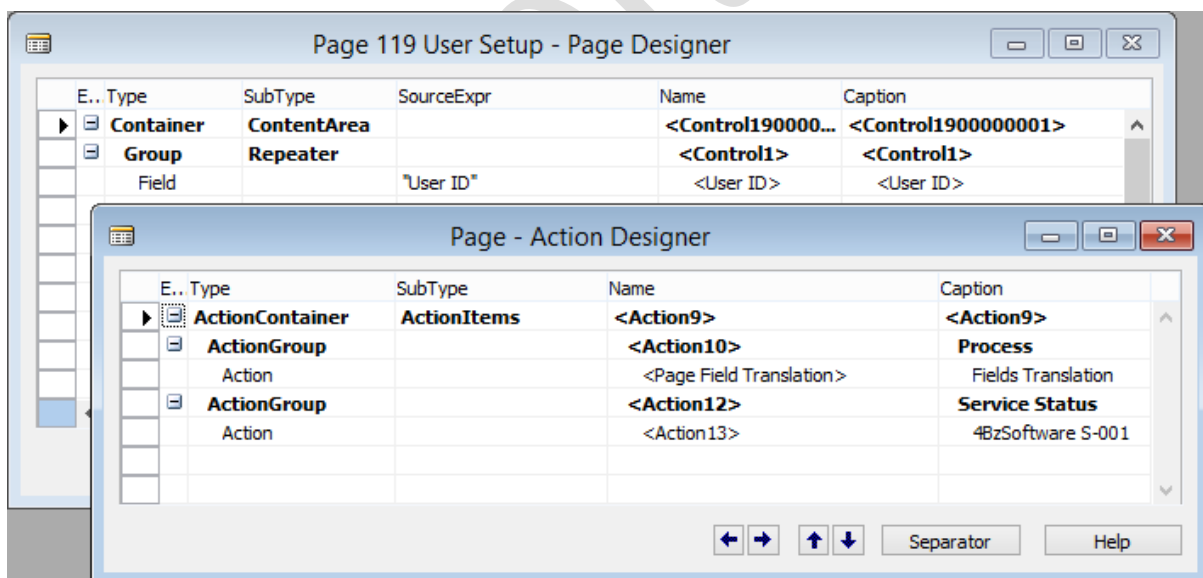
E.. Field No.	Field Name	Data Type	Length	Description
✓ 1	User ID	Code	50	
✓ 2	Allow Posting From	Date		
✓ 3	Allow Posting To	Date		
✓ 4	Register Time	Boolean		
✓ 10	Salespers./Purch. Code	Code	10	
✓ 11	Approver ID	Code	50	
✓ 12	Sales Amount Approval Limit	Integer		
✓ 13	Purchase Amount Approval Limit	Integer		
✓ 14	Unlimited Sales Approval	Boolean		
✓ 15	Unlimited Purchase Approval	Boolean		
✓ 16	Substitute	Code	50	
✓ 17	E-Mail	Text	100	
✓ 19	Request Amount Approval Limit	Integer		
✓ 20	Unlimited Request Approval	Boolean		
✓ 950	Time Sheet Admin.	Boolean		
✓ 5600	Allow FA Posting From	Date		
✓ 5601	Allow FA Posting To	Date		
✓ 5700	Sales Resp. Ctr. Filter	Code	10	
✓ 5701	Purchase Resp. Ctr. Filter	Code	10	
✓ 5900	Service Resp. Ctr. Filter	Code	10	
✓ 56 100	Field Language ID	Integer		S-001

Help

Code is bounded by “//S-001{” and “//S-001}”. Search for that strings you can see all:



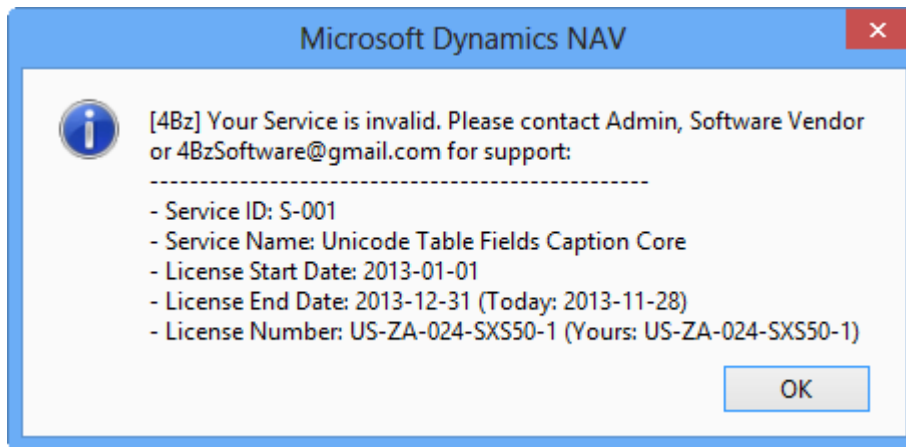
Pages often have new fields and actions. They sometimes got code inside:



1. Modify record 91 – User Setup:
 - Add field 56101.
2. Add record 50009 – Field Translation:
 - Add fields from 1 to 8.
 - Add keys from “Language ID,Table ID,Field ID” to “English Text,Language ID,Table ID”.
3. Modify page 119 – User Setup:
 - Add global variables from gCoU_EncryptMgmt to gDat_LicenseEndDate.
 - Add control “<Field Language ID>”.
 - Add actions from “ActionItems” to “4BzSoftware S-001”.
 - Modify functions OnOpenPage, OnDeleteRecord.
4. Add page 50009 – Field Translation:
 - Add global variables from gCoU_EncryptMgmt to gBol_Editable_EnglishText.
 - Add controls from “ContentArea” to “<Language Name>”.
 - Add actions from “ActionItems” to “Add Names of Fields”.
 - Add function SetEditable.
 - Modify functions OnAfterGetRecord, OnNewRecord.

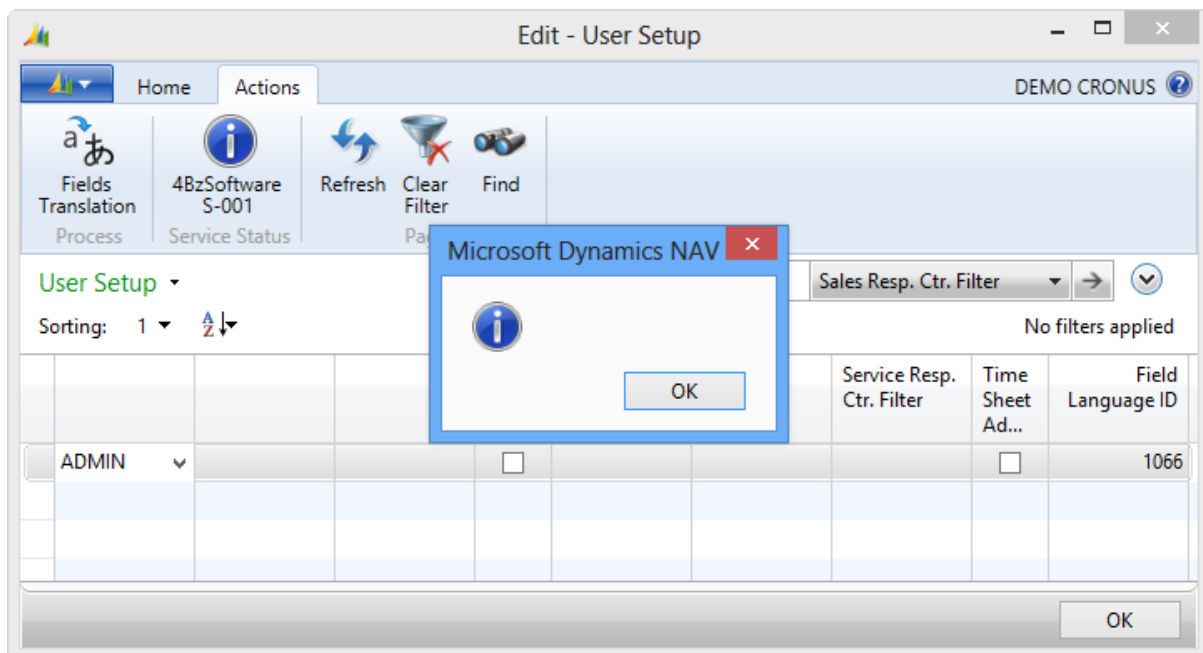
4.3 Troubleshoot

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



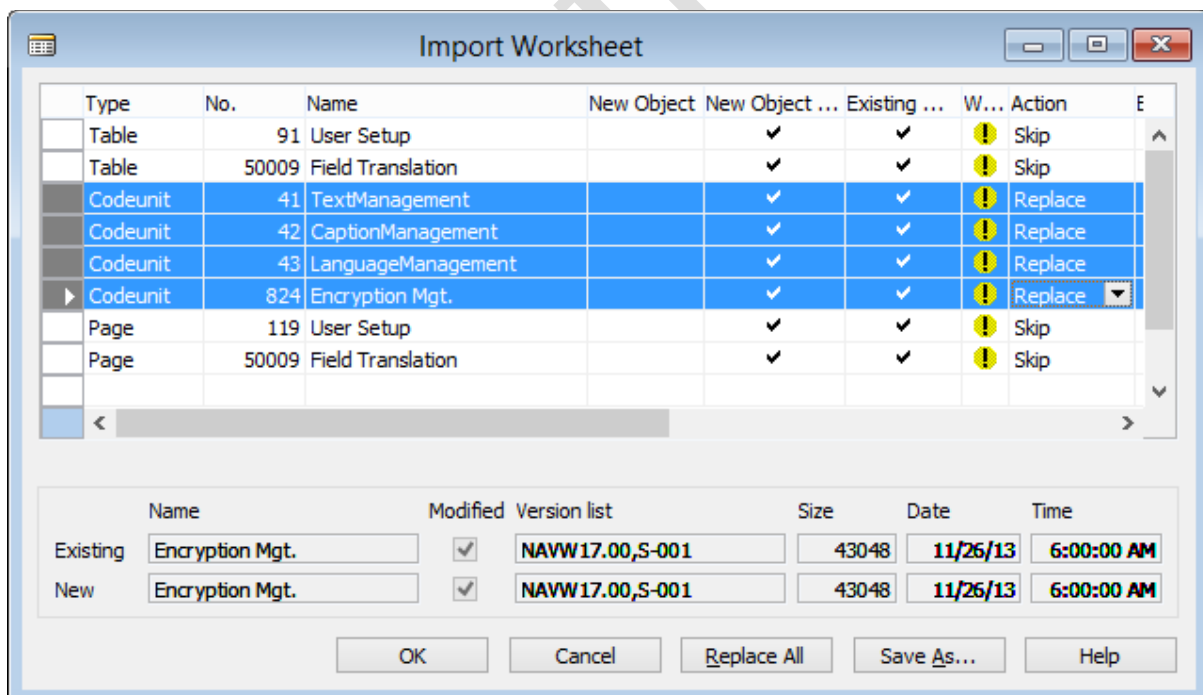
Reason: Service is expired by License End Date or License Number is incorrect.

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

Symptom 2: Service does not run and Service Status has no information:

Reason: Encrypted Objects were edited and compiled.

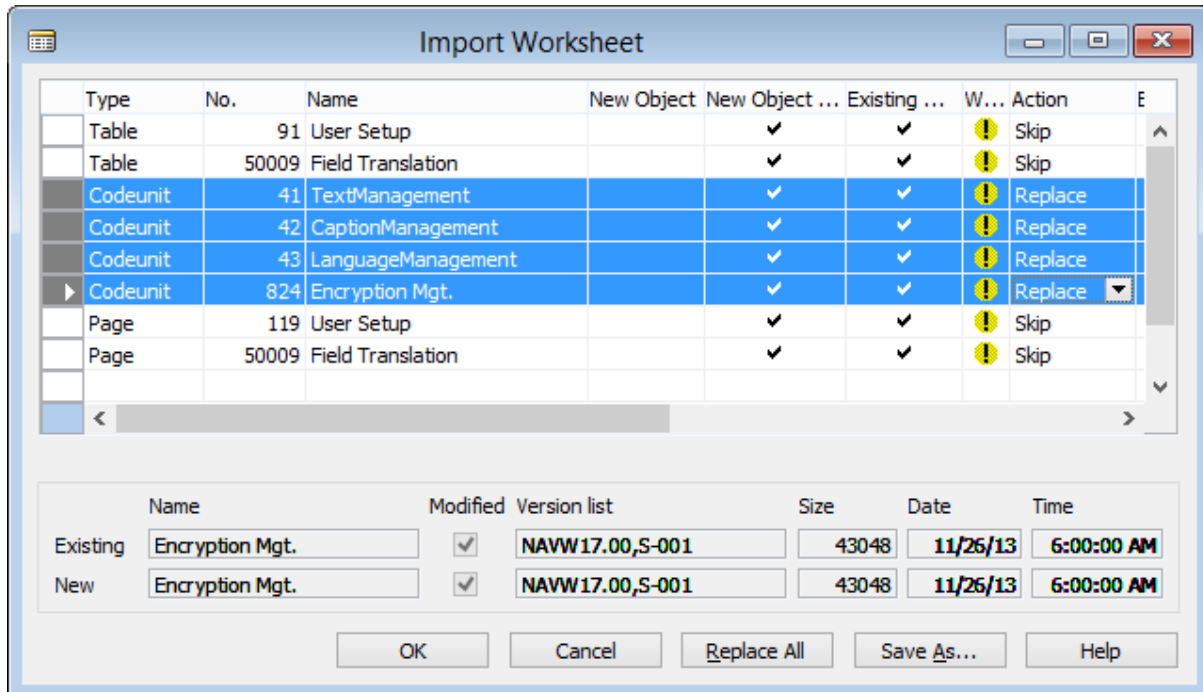
Solution: Reimport with replace them by encrypted objects from 4BzSoftware:



Symptom 3: Encrypted Objects were complied accidentally.

Reason: Encrypted Objects were complied accidentally.

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

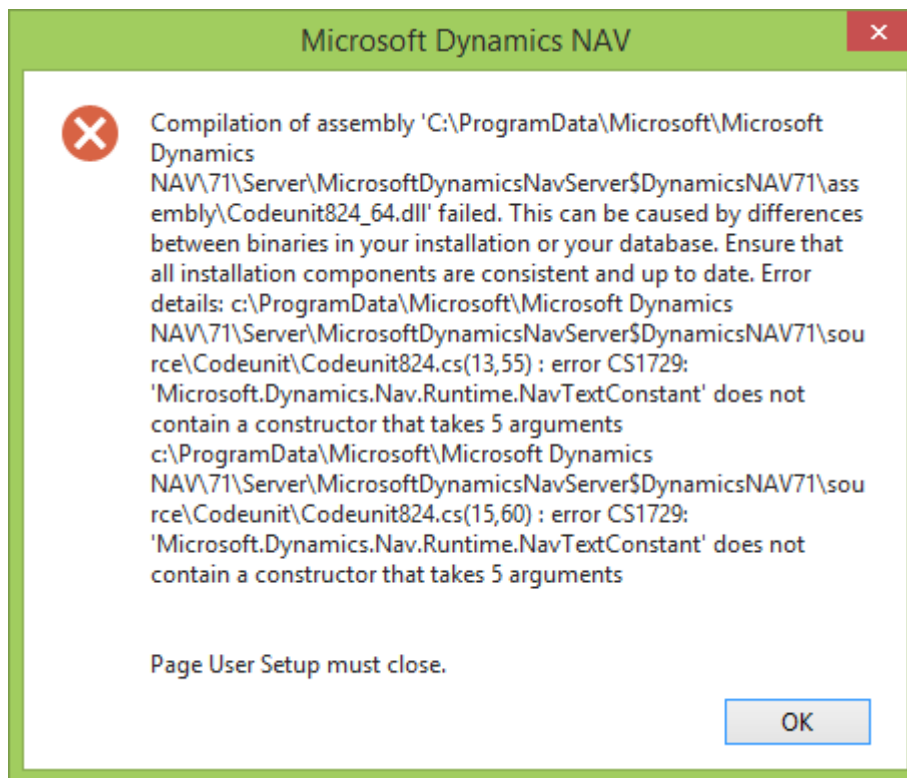


Symptom 4: Some languages display incorrect in windows 8 (square characters):

Table ID	Field ID	Language ID	Language Text	English Text	Table Name	Language Name
0	9	1041	□□□□ID	User ID		Japanese (Japan)
0	10	1041	□□□□□□□□	Allow Posting From		Japanese (Japan)
0	11	1041	□□□□□□□□	Allow Posting To		Japanese (Japan)
0	12	1041	□□□□□□	Register Time		Japanese (Japan)
0	13	1049	ID пользователя	User ID		Russian (Russia)
0	14	1049	Разрешить Средняя С	Allow Posting From		Russian (Russia)
0	15	1049	Разрешить размещен...	Allow Posting To		Russian (Russia)
0	16	1049	Регистрация Время	Register Time		Russian (Russia)
0	17	1054	ผู้ใช้ ID	User ID		Thai (Thailand)
0	18	1054	อนุญาตให้โพสต์จาก	Allow Posting From		Thai (Thailand)
0	19	1054	อนุญาตให้โพสต์	Allow Posting To		Thai (Thailand)
0	20	1054	ลงทะเบียนเวลา	Register Time		Thai (Thailand)
0	21	2052	□□ID	User ID		Chinese (Simplified, ...)
0	22	2052	□□□□□□	Allow Posting From		Chinese (Simplified, ...)
0	23	2052	□□□□□□	Allow Posting To		Chinese (Simplified, ...)
0	24	2052	□□□□□□	Register Time		Chinese (Simplified, ...)

Reason: Windows 8 bug.

Solution: In windows login screen, wait for 5 seconds before entering password.

Symptom 5: Page User Setup must close when open:

Reason: Page User Setup not yet compiled or using incorrect NAV build.

Solution:

- For Page User Setup not yet compiled, compile all objects different from codeunit (page 8).
- For incorrect NAV build, contact Software Vendor or 4BzSoftware for correct NAV build.

Symptom 6: Compile all tables receives error:

Error No.	Object Type	Object ID	Object Name	Error Type	Function/Trigger	Line No.	Description
1	Table	3	Payment Terms	Error		3	The metadata object Table 2000000111 was not found.
2	Table	4	Currency	Error		1	The metadata object Table 2000000111 was not found.
3	Table	5	Finance Charge Terms	Error		9	The metadata object Table 2000000111 was not found.
4	Table	6	Customer Price Group	Error		7	The metadata object Table 2000000111 was not found.
5	Table	7	Standard Text	Error		5	The metadata object Table 2000000111 was not found.
6	Table	8	Language	Error		1	The metadata object Table 2000000111 was not found.
7	Table	9	Country/Region	Error		3	The metadata object Table 2000000111 was not found.
8	Table	10	Shipment Method	Error		3	The metadata object Table 2000000111 was not found.
9	Table	13	Salesperson/Purchaser	Error		3	The metadata object Table 2000000111 was not found.
10	Table	14	Location	Error		7	The metadata object Table 2000000111 was not found.
11	Table	15	G/L Account	Error		1	The metadata object Table 2000000111 was not found.
12	Table	17	G/L Entry	Error		1	The metadata object Table 2000000111 was not found.
13	Table	18	Customer	Error		3	The metadata object Table 2000000111 was not found.
14	Table	19	Cust. Invoice Disc.	Error		1	The metadata object Table 2000000111 was not found.
15	Table	21	Cust. Ledger Entry	Error		1	The metadata object Table 2000000111 was not found.
16	Table	23	Vendor	Error		3	The metadata object Table 2000000111 was not found.
17	Table	24	Vendor Invoice Disc.	Error		1	The metadata object Table 2000000111 was not found.
18	Table	25	Vendor Ledger Entry	Error		1	The metadata object Table 2000000111 was not found.
19	Table	27	Item	Error		61	The metadata object Table 2000000111 was not found.
20	Table	30	Item Translation	Error		0	The metadata object Table 2000000111 was not found.
21	Table	32	Item Ledger Entry	Error		1	The metadata object Table 2000000111 was not found.
22	Table	36	Sales Header	Error		5	The metadata object Table 2000000111 was not found.
23	Table	37	Sales Line	Error		3	The metadata object Table 2000000111 was not found.
24	Table	38	Purchase Header	Error		9	The metadata object Table 2000000111 was not found.
25	Table	39	Purchase Line	Error		1	The metadata object Table 2000000111 was not found.
26	Table	42	Rounding Method	Error		0	The metadata object Table 2000000111 was not found.
27	Table	43	Purch. Comment Line	Error		11	The metadata object Table 2000000111 was not found.
28	Table	44	Sales Comment Line	Error		11	The metadata object Table 2000000111 was not found.
29	Table	45	G/L Register	Error		1	The metadata object Table 2000000111 was not found.
30	Table	46	Item Register	Error		1	The metadata object Table 2000000111 was not found.
31	Table	47	Aging Band Buffer	Error		0	The metadata object Table 2000000111 was not found.
32	Table	48	Inv't. Posting Buffer	Error		18	The metadata object Table 2000000111 was not found.
33	Table	49	Invoice Post. Buffer	Error		53	The metadata object Table 2000000111 was not found.

Reason: Some system tables should be compiled first.

Solution: Compile tables with ID >= 2000000004 (Permission Set) first. Then, compile all tables again.

4.4 Version Control

Version (YYMMDD)	Description
130201	Release - version 7.0 (2013 RTM) 1. Navision objects for version 7.0 (2013 RTM).
130707	Fix bug - length of license variables 1. Increase length of license variables from 10 to 20 characters.
131128	Change - new policy 1. New policy removes check number of users and applies License Type. Enhance - new function and new tool 1. New function "Add Names of Fields" helps to add new Names of Fields. 2. New tool helps to add/remove CaptionClass of Record Objects in Text File.
140122	Release - version 7.1 (2013 R2) 1. Navision objects for version 7.1 (2013 R2). Change - new policy 1. Trial for first top 2 sessions and remove License Type.
140816	Update - new symptoms 1. Symptom 5: Page User Setup must close when open. 2. Symptom 6: Compile all tables receives error.

5. Pricing

Please refer to our SkyDrive:

<https://skydrive.live.com/?cid=1322D544FED91559&id=1322D544FED91559%21107>

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This is last page.

Thank you!