



Idle Session Management

Idle Session Management

4BzSoftware Company Limited | Product S-06

Released on 2016-10-10, last updated on 2019-09-12

4BZSoftware

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1. Introduction

With Idle Session Management inside NAV, you can specify Idle Client Timeout, Allow Login Time, Total Sessions for each user, allocate Concurrent Client Access Licenses (CCALs) to group of users.

CCALs are based on the number of users accessing NAV simultaneously. And users have various requirements for NAV time usage. For example, Sales Order Processors always open NAV to enter sales every 10 minutes, whereas Purchasers sometimes access NAV for processing when they receive goods or invoices from vendors. Common practice that Purchasers keep NAV opening although they don't use it. As a result, CCALs are lost. Through Idle Session Management, you can set idle timeout to individual user such as 20 minutes for Purchasers, and 1 hour for Sales Order Processors. NAV will be closed automatically to release CCALs for other users.

Another usual situation when all CCALs are consuming, System Administrator cannot login NAV to stop some Idle Client Sessions. Via Idle Session Management, you can prevent it by assigning one CCAL for group of System Administrator and the rest for other groups.

Related videos at https://www.youtube.com/playlist?list=PLfgzNr8_2GkppfBvH7LQ5mLiby2m6Wb3C

Main features of "Idle Session Management":

1. Specify Idle Client Timeout for individual user (apply to Windows Client only).
2. Set Allow Login Time per user (apply to Windows, Web and SharePoint Clients).
3. Define Total Sessions for each user (apply to Windows, Web and SharePoint Clients).
4. Allocate CCALs to group of users (apply to Windows, Web and SharePoint Clients).
5. Stop a Session (apply to Windows, Web and SharePoint Clients).
6. Support NAV 2016 to NAV 2017 which has Event Subscriber and native System.IO library.
7. For NAV 2013 to NAV 2015, please test if it is acceptable to you!

Edit - Session User List

HOME

ACTIONS

Add New Users

New

View List

Edit List

Delete

Set Allow Login Time

Copy Settings of Current User to

Open Session Group List

Stop a Session

Show as List

Show as Chart

Notes

Links

Refresh

Clear Filter

Find

New

Manage

Process

View

Show Attached

Page

Session Management

Type to filter (F3)

User Name

No filters applied

User Name	User Full Name	Idle Client Timeout	Idle Client Timeout Active	Total Sessions	Total Sessions Limit	User Group ID	User Group Tot. Sessions Limit	User Group Name	User Group Total Sessions	Allow Login Time Active	Allow Login Time Count	Last Denied Login At	Last Denied Login Message
ITS-01	IT Supporter 01	20 minutes	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	IT	<input checked="" type="checkbox"/>	IT Department	1	<input type="checkbox"/>	0		
PUR-01	Purchaser 01	20 minutes	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	OT	<input checked="" type="checkbox"/>	Other Departments	3	<input checked="" type="checkbox"/>	2		
SOP-01	Sales Order Processor 01	1 hour	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	OT	<input checked="" type="checkbox"/>	Other Departments	3	<input checked="" type="checkbox"/>	2		
SOP-02	Sales Order Processor 02	1 hour	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	OT	<input checked="" type="checkbox"/>	Other Departments	3	<input checked="" type="checkbox"/>	2		
SOP-03	Sales Order Processor 03	1 hour	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	OT	<input checked="" type="checkbox"/>	Other Departments	3	<input checked="" type="checkbox"/>	2		

OK

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

Tool supports from NAV 2016 which has Event Subscriber and native System.IO library.

For NAV 2013 to NAV 2015, please test if it is acceptable to you!

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

No.	Type	ID	Name	Note
1	Table	99000834	Idle Session Management	
2	Codeunit	1	ApplicationManagement	No need from NAV 2016
3	Codeunit	31	NAV Library	Protected Object
4	Codeunit	65	License Management	Protected Object
5	Codeunit	417	Idle Session Management	Protected Object
6	Page	8	Standard Text Codes	Start Point
7	Page	690	Session Management	
8	Page	9174	All Objects with Caption	
9	Page	9800	Users	No need from NAV 2016

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 417) 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. Add Permission:

All users need Read and Indirect Modify permissions on table 99000834 Idle Session Management.

System Administrator needs all permissions (Read/Insert/Modify/Delete) on table 99000834.

3. Check Service Status:

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

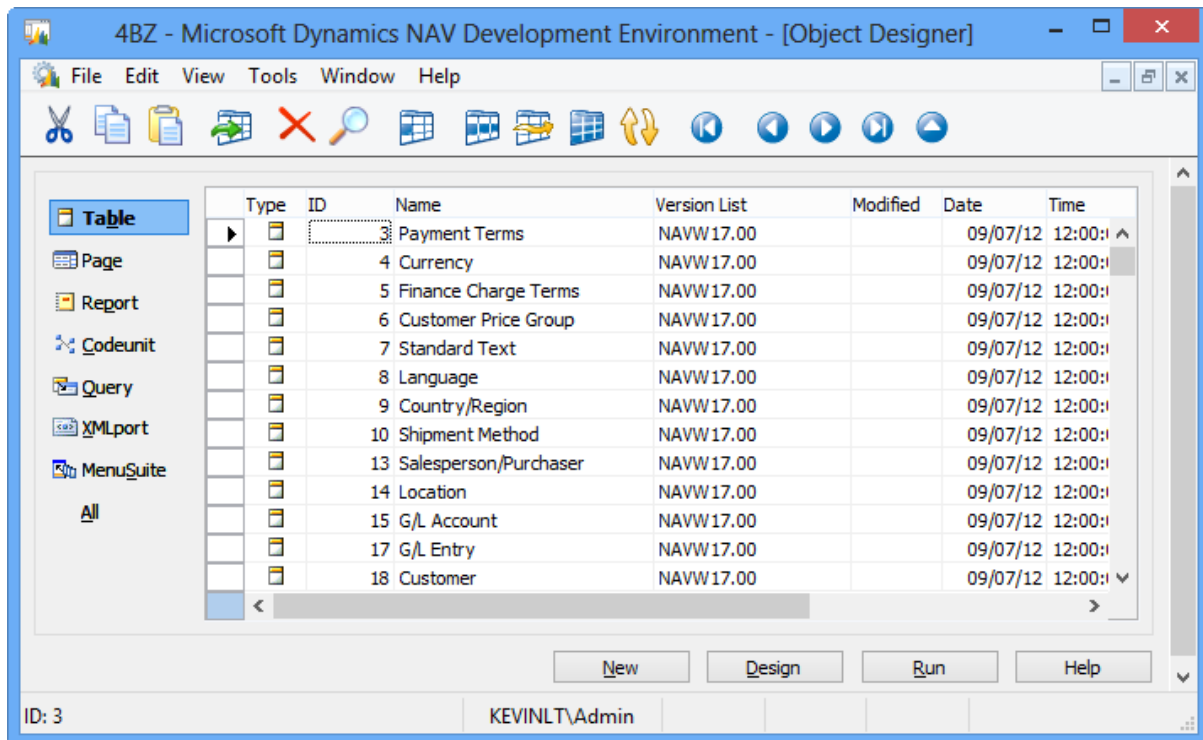
4. Edit Codeunit 1 for NAV 2013 to NAV 2015.

5. Optionally hide External Component Use confirm dialog.

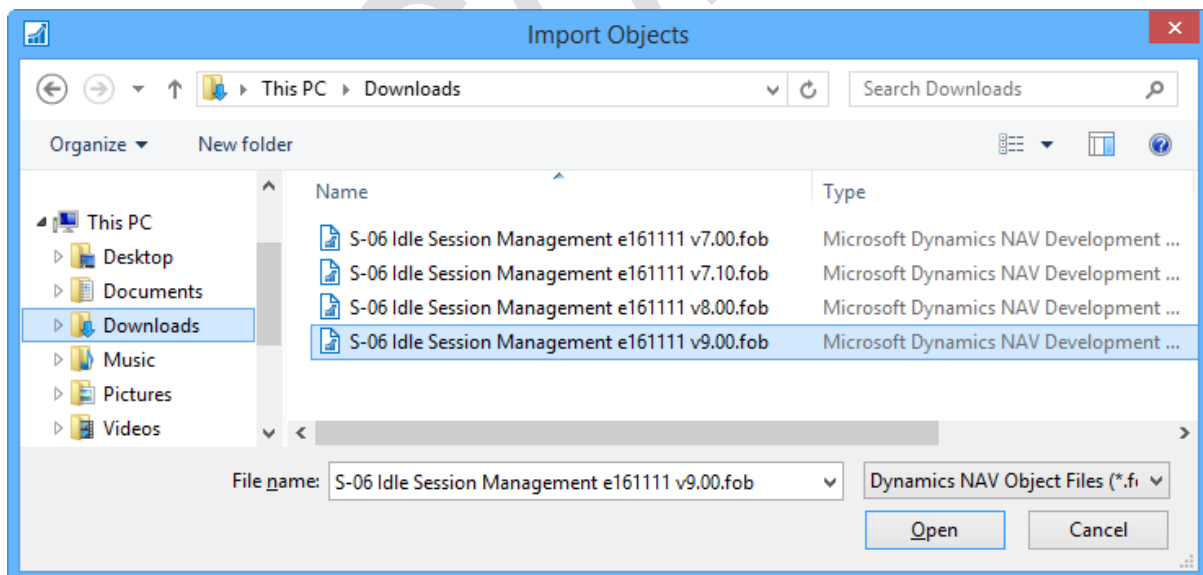
Below sections describe the installation/uninstallation in detail.

2.1 Import NAV Objects

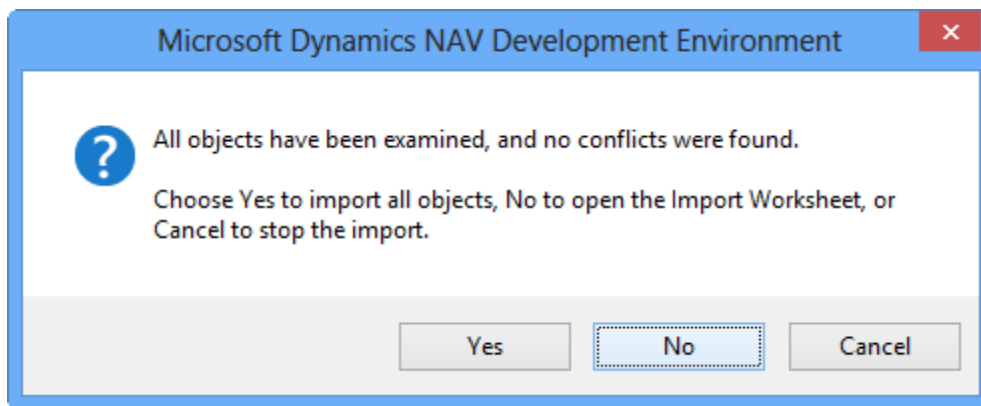
Open Object Designer in Development Environment (after login database, press Shift+F12):



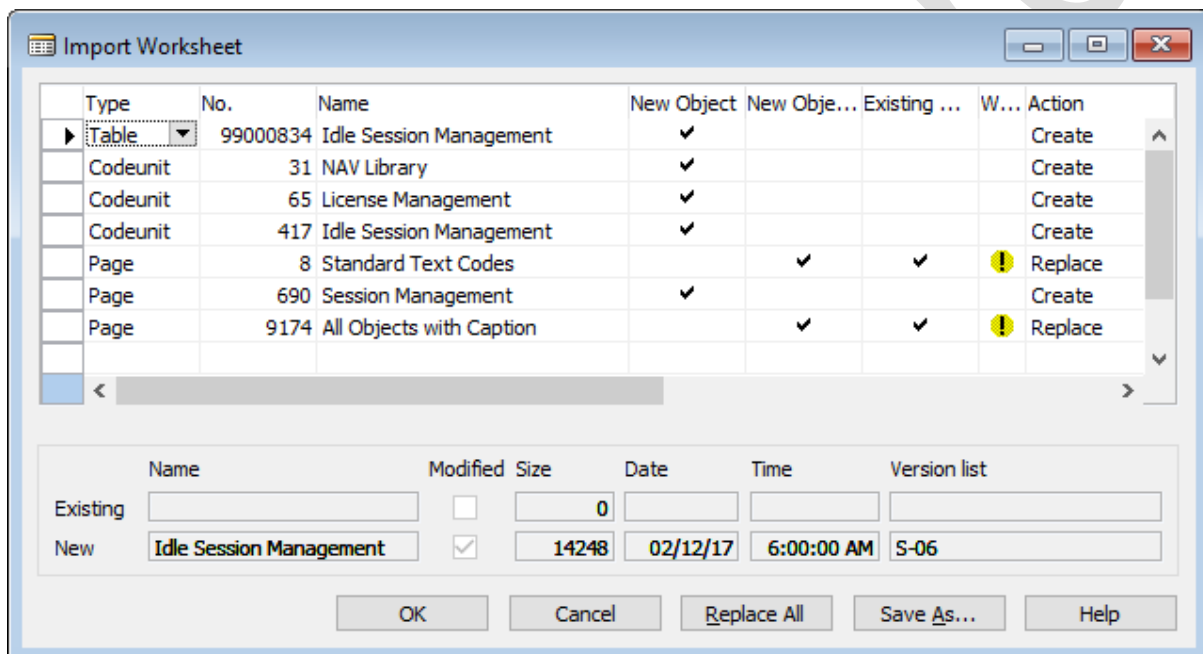
Click File → Import... → Browse NAV objects in Import Objects dialog → Click Open:



Select No to open Import Worksheet due to conflicted objects:

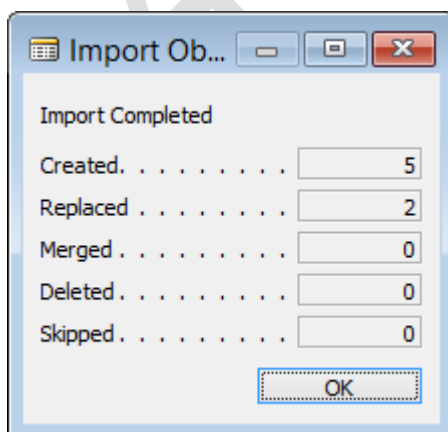


Click Replace All button and then click OK:

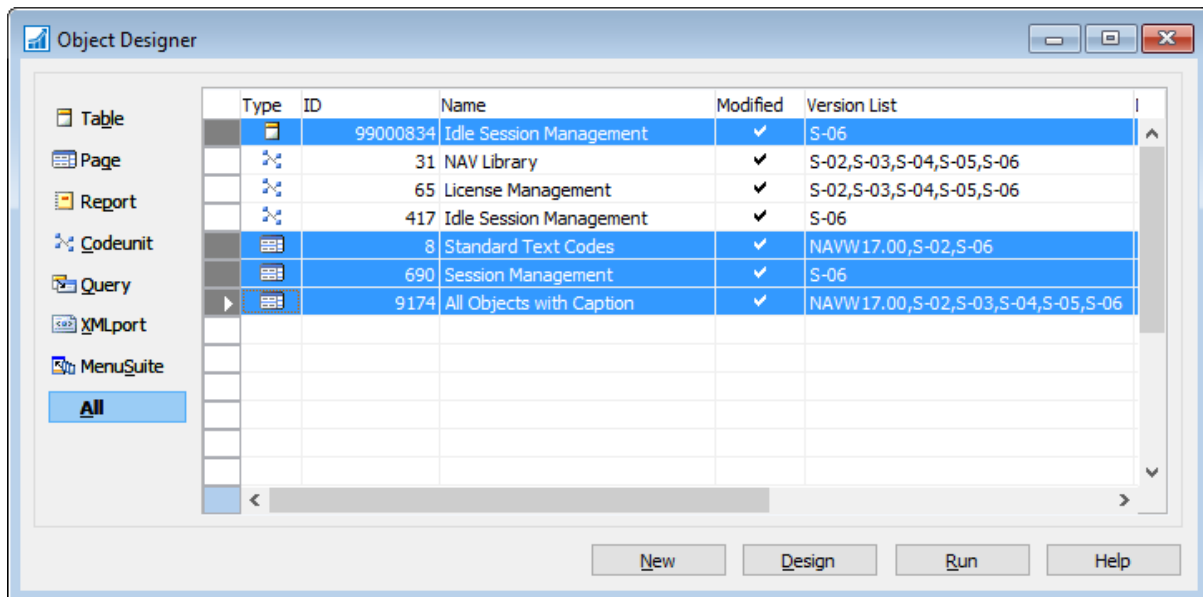
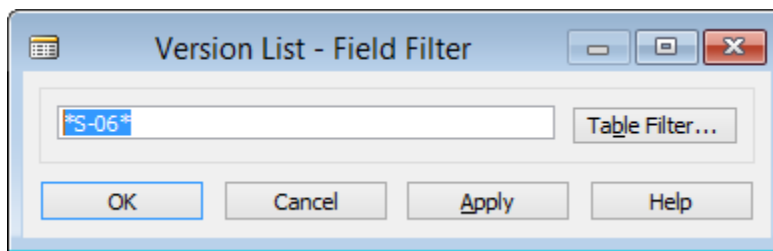


From NAV 2015, choose "Force" option for Synchronize Schema.

Import Objects dialog result:



Filter Version List with string *S-06*, compile below selected objects:



This is finish importing NAV objects.

2.2 Add Permission

All users need Read and Indirect Modify permissions on table 99000834 Idle Session Management.

You can add it to BASIC permission set:

The screenshot shows the 'Payroll - Microsoft Dynamics NAV' window. The left sidebar contains a 'Role Center' with options like Period, Employee, Contract List, Bank Account List, Causes of Absence, Progressive List, Element List, Payroll Item List, and Template List. The main area displays the 'Payroll' section with an 'Employee List' table. The table has columns for No., Full Name, Job Title, and Job ID. The data includes employees like Employee 01 Demo (Managing Director), Employee 02 Demo (Accounting Manager), and Employee 03 Demo (Payroll Accountant). To the right, the 'Permission Sets' window is open, showing the 'Administration/IT Administration/General' set. The bottom status bar indicates 'CRONUS International Ltd. Friday, January 27, 2017 PA'.

Select BASIC permission set, click action Permissions:

The screenshot shows the 'View - Permission Sets' window. The left sidebar has a 'Permission Sets' section with a list of sets: ADACS ALL, ADACS SETUP, BASIC, and CASHFLOW. The 'BASIC' set is selected, and its name 'Basic User (All Inclusive)' is displayed. The main area shows the 'Permissions' table with columns for Object Type, Object ID, and Delete Permission. The data includes permissions for Table Data (Object ID 4, 7, 14, 18, 23) with permissions like Currency, Standard Text, Location, Customer, and Vendor. The bottom status bar indicates 'CRONUS International Ltd. ?'.

Add Read and Indirect Modify permissions as following picture:

Edit - Permissions

HOME ACTIONS

100 ?

Permissions ▾

Type to filter (F3) Object Type ▾ → ▾

No filters applied

General

Role ID: BASIC ▾ Add Read Permission to Related Tables: ☐

Show: Only In Permission Set ▾

Object Type ▴	Object ID ▴	Object Name	Read Permission	Insert Permission	Modify Permission	Delete Permission	Execute Permission	Security Filter
Table Data	99000832	Item Availability Line	Yes	Indirect	Indirect	Indirect		
Table Data	99000834	Idle Session Management	Yes		Indirect			
Table Data	99000846	Planning Buffer	Yes	Indirect	Indirect	Indirect		
Table Data	99000849	Action Message Entry	Yes	Indirect	Indirect	Indirect		

OK

System Administrator needs all permissions (Read/Insert/Modify/Delete) on table 99000834. Typically, System Administrator has SUPER permission set which already includes needed permissions. Otherwise, you should add them to a new or suitable existing permission set:

Edit - Permissions

HOME ACTIONS

100 ?

Permissions ▾

Type to filter (F3) Object Type ▾ → ▾

No filters applied

General

Role ID: SESSION SETUP ▾ Add Read Permission to Related Tables: ☐

Show: Only In Permission Set ▾

Object Type ▴	Object ID ▴	Object Name	Read Permission	Insert Permission	Modify Permission	Delete Permission	Execute Permission	Security Filter
Table Data	99000834	Idle Session Management	Yes	Yes	Yes	Yes		

OK

2.3 Check Service Status

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

To check Service Status, you open “Standard Text Codes”:

The screenshot shows the 'Payroll - Microsoft Dynamics NAV' window. The 'Standard Text Codes' window is open, displaying a list of employees and their details. The 'Employee List' table is visible, showing columns for No., Full Name, Job Title, and Job ID. The 'Payroll Module License' section shows the Service ID as S-04, NAV License No. as +48ZSW, and License End Date as 3/31/2017.

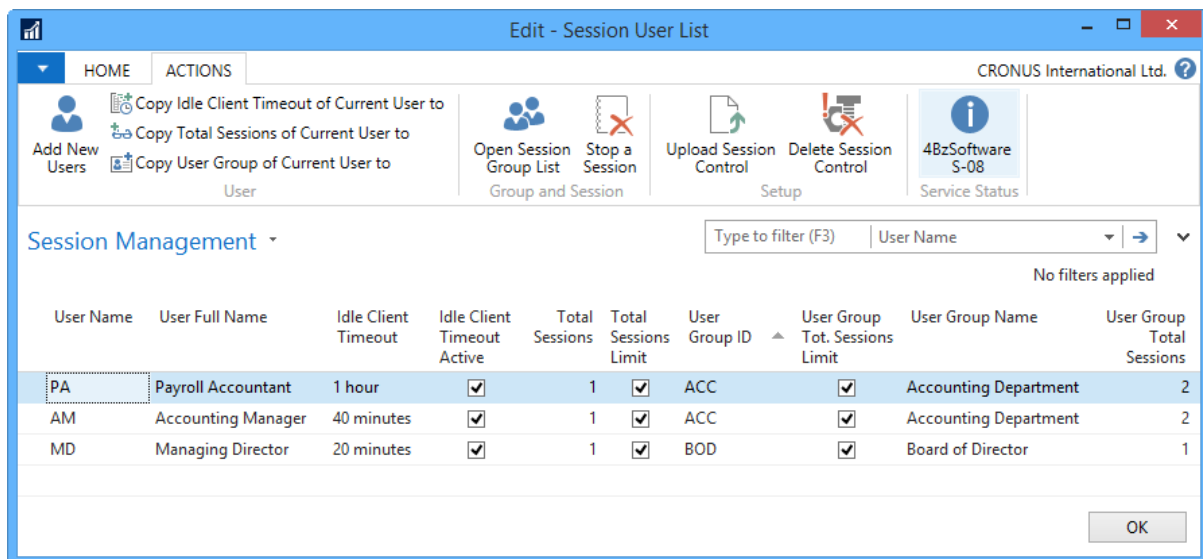
No.	Full Name	Job Title	Job ID
_EMP-01	Employee 01 Demo	Managing Director	
_EMP-02	Employee 02 Demo	Accounting Manager	
_EMP-03	Employee 03 Demo	Payroll Accountant	
AH	Annette Hill	Secretary	6743
JR	John Roberts	Managing Director	4564
LM	Linda Martin	Service Manager	1095
MD	Mary A. Dempsey	Designer	3545
MH	Mark Hanson	Production Assistant	4456
PS	Peter Sadow	Sales Manager	1415
RL	Richard Lum	Production Manager	6571
TS	Timothy Sneath	Production Assistant	4653

Click action “S-06 Idle Session Management” on Standard Text Codes page:

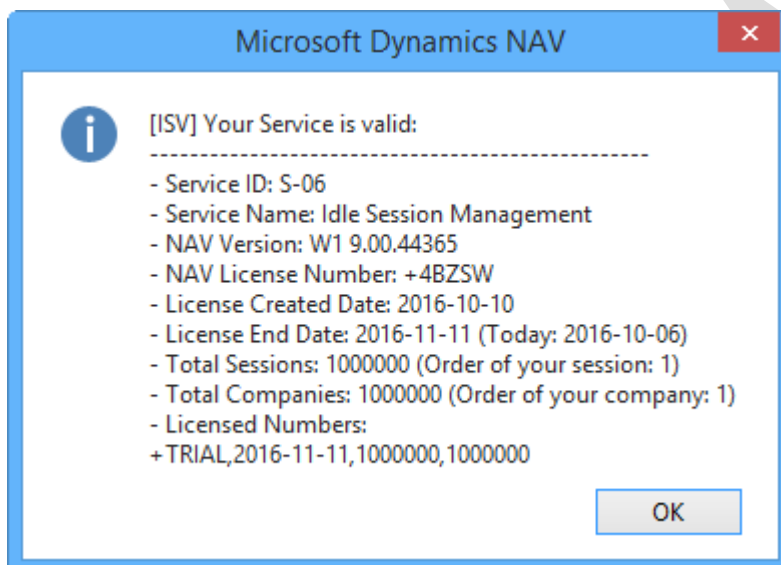
The screenshot shows the 'Standard Text Codes - Microsoft Dynamics NAV' window. The 'S-06 Idle Session Management' action is highlighted in the 'NAVIGATE' section. The 'Standard Text Codes' table is visible, showing columns for Code and Description. The table contains the following data:

Code	Description
MD	Monthly Depreciation
SC	Shipping Charge
SUC	Sale under Contract
TE	Travel Expenses

Click action “4BzSoftware S-06” on Session User List page:



Service Status dialog:

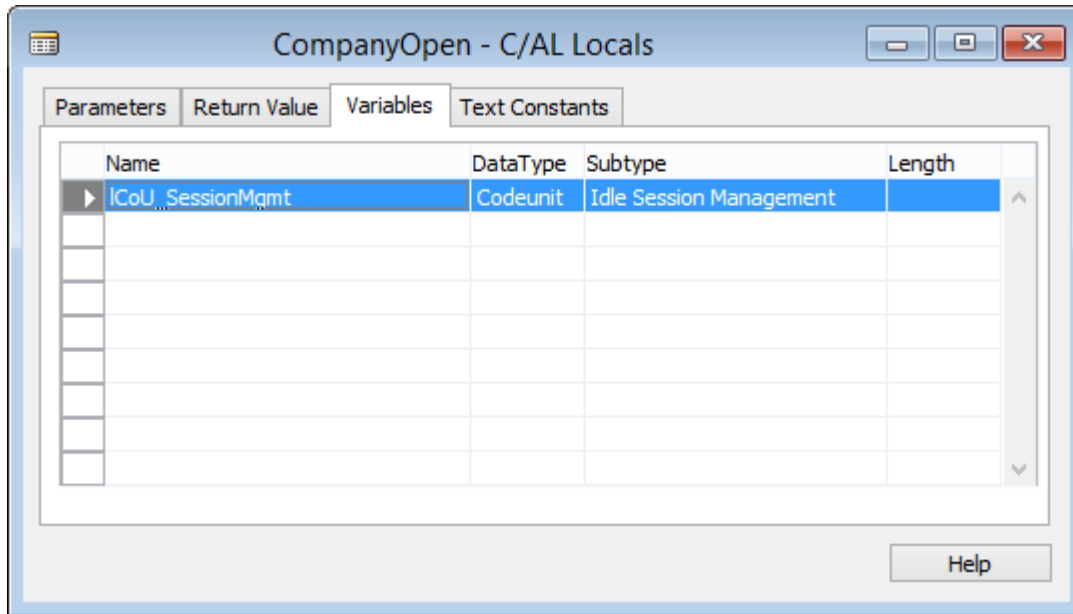


2.4 Edit Codeunit 1 for NAV 2013, NAV 2013 R2 and NAV 2015

This step is for NAV 2013, NAV 2013 R2 and NAV 2015. You do it via Development Environment:

Edit Codeunit 1 ApplicationManagement.

In CompanyOpen function, declare a local variable ICoU_SessionMgmt:

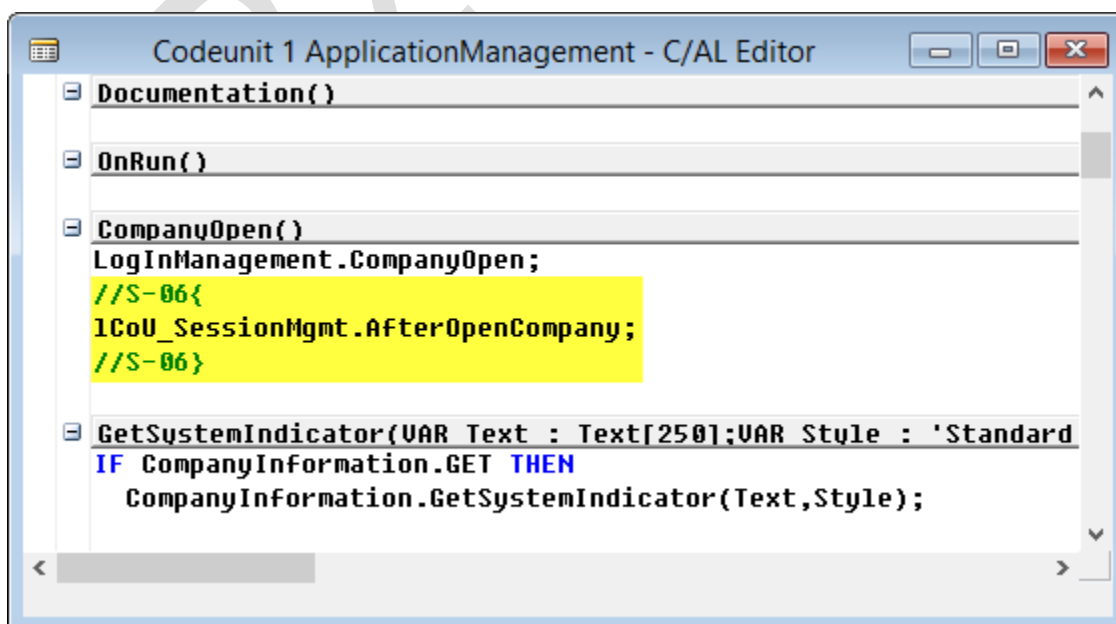


In CompanyOpen function, add 3 lines of code:

```
//S-06{
```

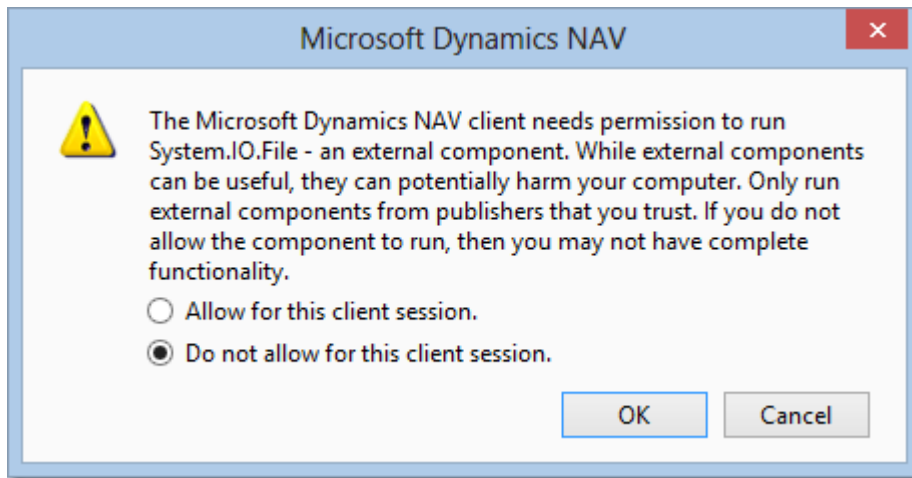
```
ICoU_SessionMgmt.AfterOpenCompany;
```

```
//S-06}
```



2.5 Optionally hide External Component Use confirm dialog

This step is optional. Only if users receive below dialog each time start NAV, and you want to hide it:



You can find detail information from link <http://kauffmann.nl/index.php/2013/04/17/nav-client-needs-permission-to-run-external-component/>

"There is a quick solution for this: set the key ServicePrincipalNameRequired in the ClientUserSettings.config to true:

```
<add key="ServicePrincipalNameRequired" value="True" />
```

During installation a default ClientUserSettings.config is installed in the location 'C:\ProgramData\Microsoft\Microsoft Dynamics NAV\70'. This config file is used as a default config for any user that starts the client for the first time. At first time starting, a copy of this config file is made to the location 'C:\Users\<username>\AppData\Roaming\Microsoft\Microsoft Dynamics NAV\70'.

If you want to configure the setting for all future users, then change the config file in the ProgramData folder. Otherwise change the config file in the Users Roaming folder."

2.6 Uninstall

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

No.	Type	ID	Name	Note
1	Table	99000834	Idle Session Management	Delete data & object
2	Codeunit	1	ApplicationManagement	Import backup object
3	Codeunit	31	NAV Library	Delete object
4	Codeunit	65	License Management	Delete object
5	Codeunit	417	Idle Session Management	Delete object
6	Page	8	Standard Text Codes	Import backup object
7	Page	690	Session Management	Delete object
8	Page	9174	All Objects with Caption	Import backup object
9	Page	9800	Users	Import backup object

Finally, remove permission on table 99000834 Idle Session Management in relating permission set.

3. How to use

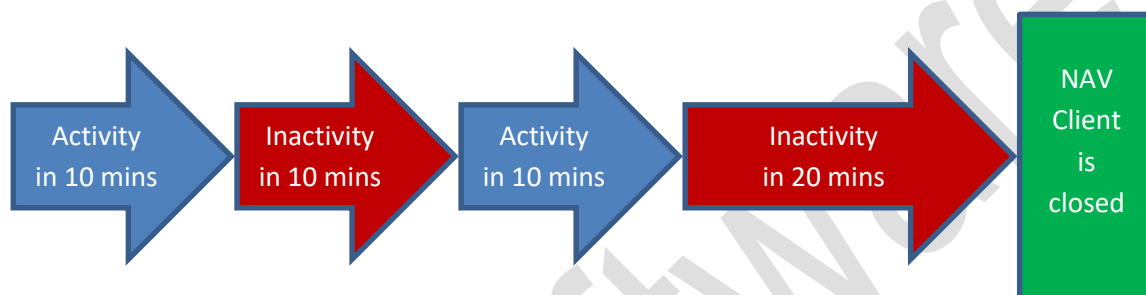
You can find all guide videos at:

https://www.youtube.com/playlist?list=PLfgzNr8_2GkppfBvH7LQ5mLiby2m6Wb3C

3.1 Specify Idle Client Timeout for individual user

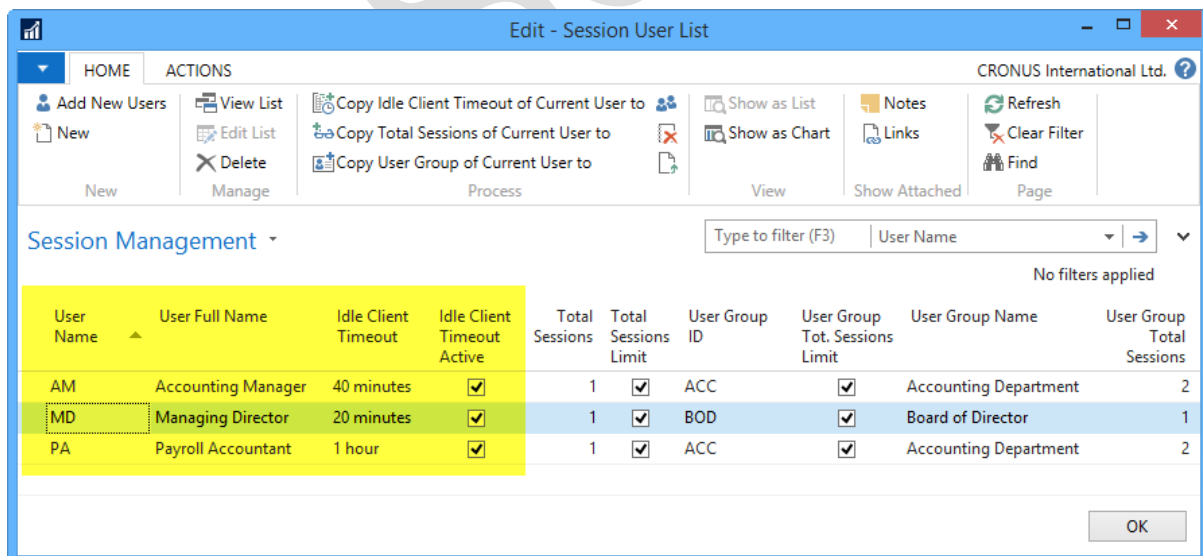
This feature is for Windows Client only.

Idle Client Timeout: amount of time that client remains open when there is no activity continuously. For example, we set 20 minutes Idle Client Timeout for Managing Director, the client is closed at the 4th arrow only when there is no activity in 20 minutes continuously:



Tool tries to safely close the client as user exit NAV to release CCAL for other users immediately. Otherwise, tool will forcedly end task the client, and CCAL will be released as standard NAV process (around 15 minutes by default).

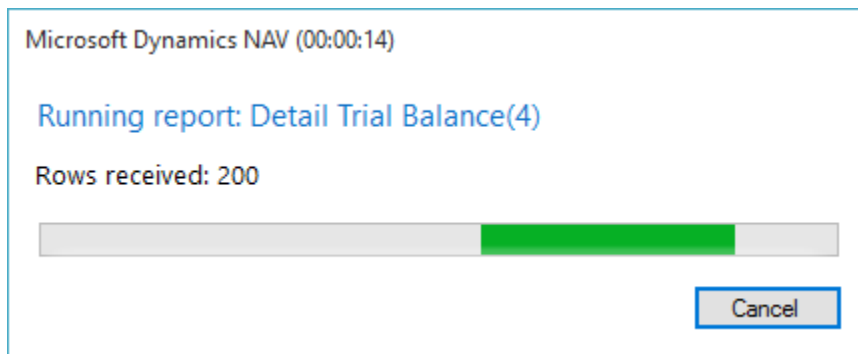
To specify Idle Client Timeout for individual user, you open Session User List page:



- Click Add New Users action, and select desired users from User List page.
- Then specify Idle Client Timeout such as 20 minutes, 40 minutes, 1 hour, ...
- Set true Idle Client Timeout Active for needed users.

Login NAV clients with users for checking.

There are long execution time reports which user clicks preview button and waits for its processing with below Running report dialog:



In fact, NAV is not being interacted with by the user, and idle time is being counted. As a result, system sometimes bumps user out before the report is finished.

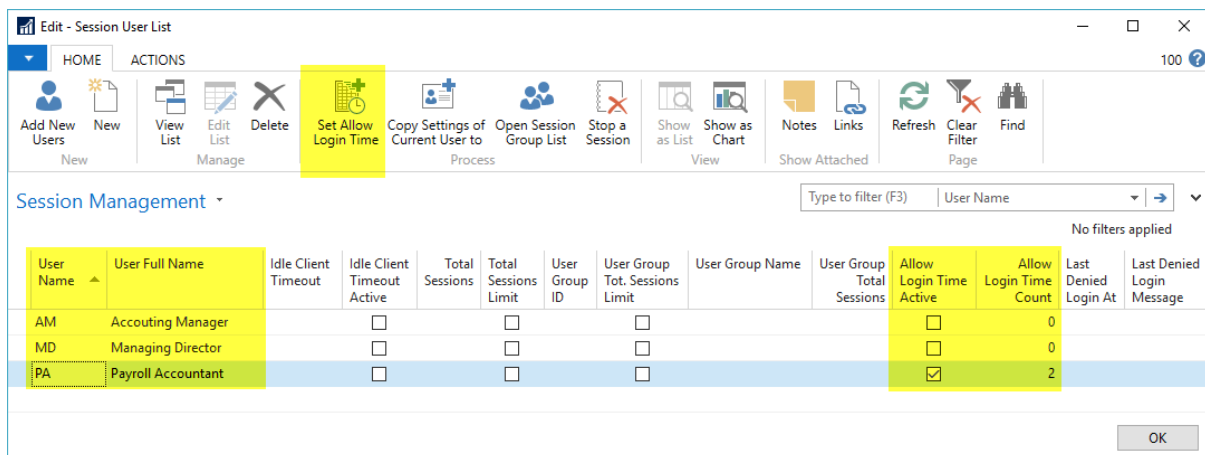
There are feedbacks that tool should consider "not idle" in this case. It is good requirement; therefore, tool is enhanced to handle the situation. Remember to keep Running report dialog in front of other NAV pages.

3.2 Set Allow Login Time per user

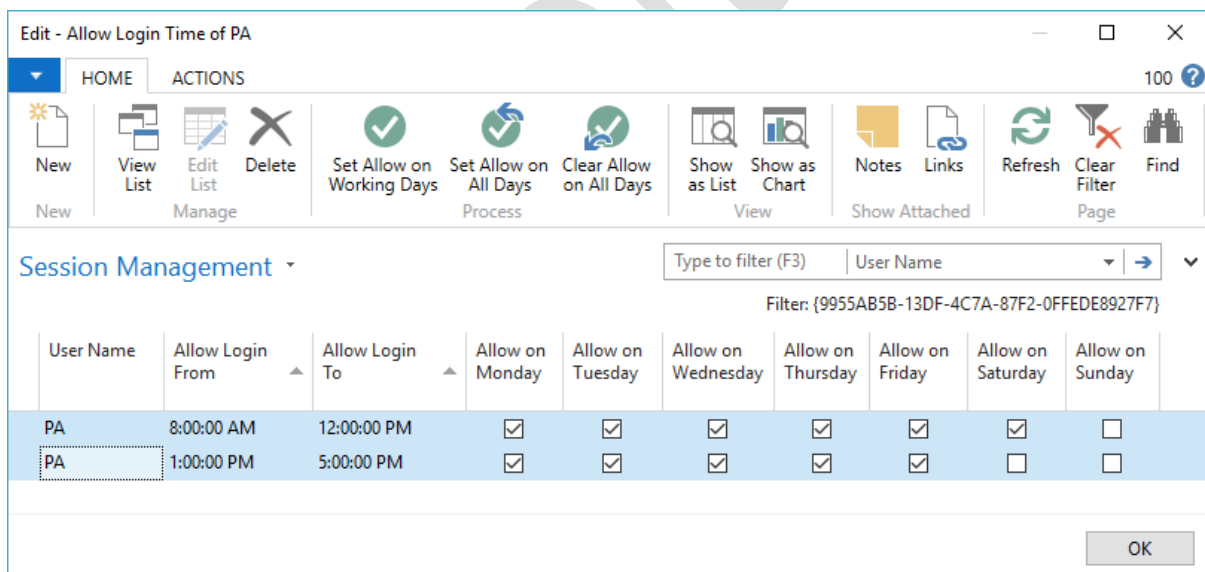
This feature applies to Windows Client, Web Client and SharePoint Client.

There is demand that allows users to login system at specified time of pre-defined days in week. And tool supports this requirement. To configure it, on Session User List page:

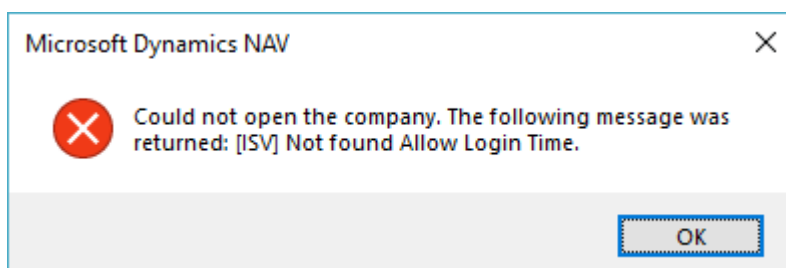
- Set true Allow Login Time Active for needed user.
- To specify time of pre-defined days in week, click "Set Allow Login Time" action:



Allow Login Time page appears. Fill in Allow Login From/To and set true for applicable days in week:



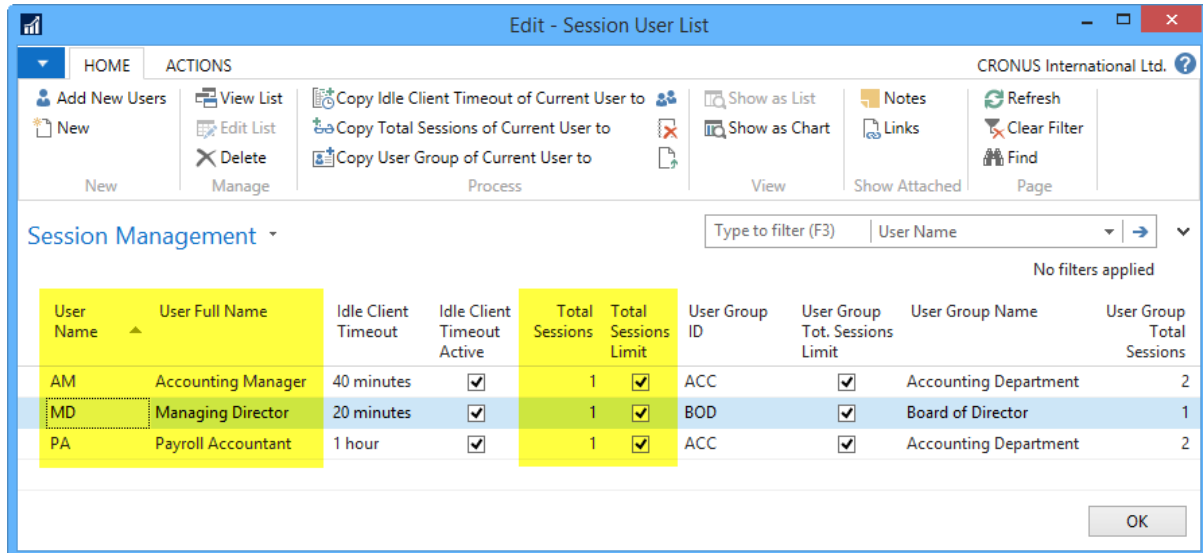
Check with users. They receive below messages when not found Allow Login Time:



3.3 Define Total Sessions for each user

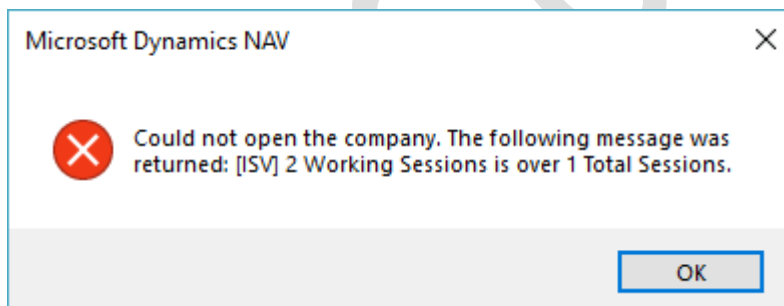
This feature applies to Windows Client, Web Client and SharePoint Client.

You can define total sessions that a user can consume at a point of time:



- Click Add New Users action, and select desired users from User List page.
- Then specify Total Sessions such as 1, 2, 3, ...
- Set true Total Sessions Limit for needed users.

Login NAV clients with users for checking. They receive below messages when over total sessions:

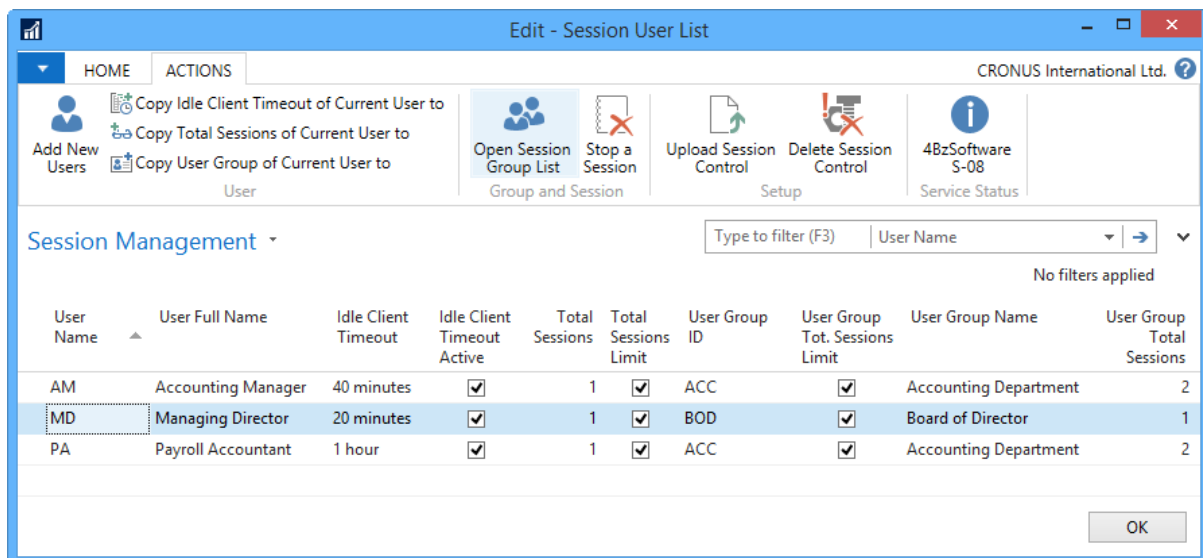


3.4 Allocate CCALs to group of users

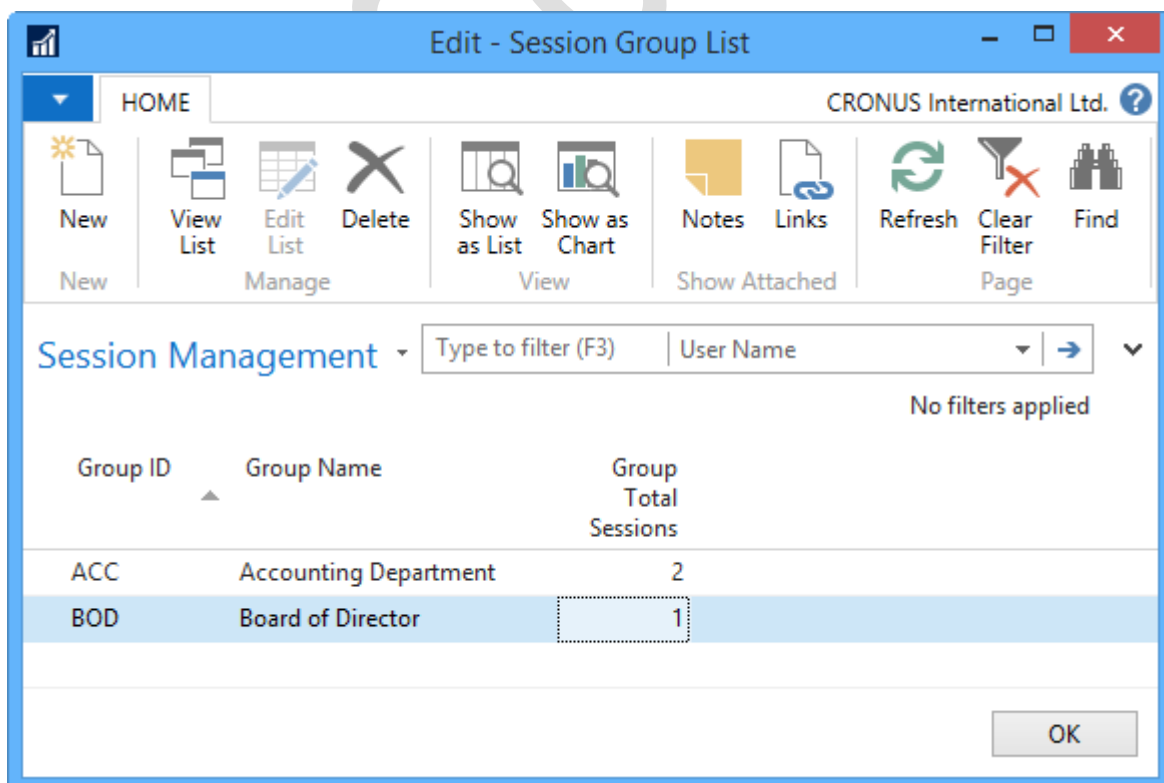
This feature applies to Windows Client, Web Client and SharePoint Client.

It solves a usual situation when all CCALs are consuming, Managing Director cannot login NAV to stop some Idle Client Sessions. You can assign one CCAL for group of Managing Director and the rest for other groups.

To create Session Group and allocate CCALs, click on Open Session Group List action:



Session Group List page appears. You define ID, Name and Total Sessions for groups, then click OK:



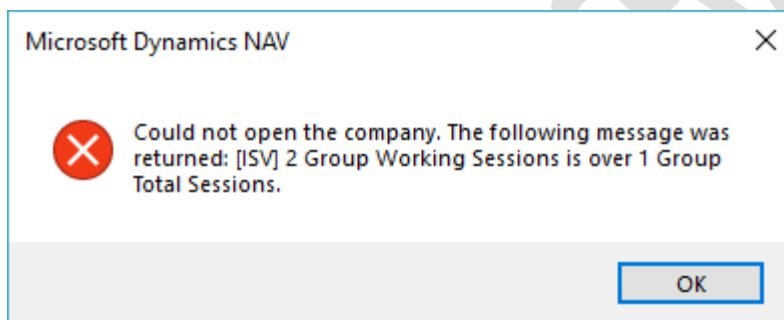
Back to Session User List page, you link users to groups via User Group ID field:

The screenshot shows the 'Edit - Session User List' window. It has a ribbon with 'HOME' and 'ACTIONS' tabs. The 'ACTIONS' tab contains several icons for user and session management. Below the ribbon is a 'Session Management' section with a filter dropdown set to 'User Name'. A table lists three users: AM (Accounting Manager), MD (Managing Director), and PA (Payroll Accountant). Each user has columns for idle client timeout, active status, total sessions, and session limit. The 'User Group' section shows that AM and PA are linked to the 'ACC' group (Accounting Department) with a limit of 2, while MD is linked to the 'BOD' group (Board of Director) with a limit of 1.

User Name	User Full Name	Idle Client Timeout	Idle Client Timeout Active	Total Sessions	Total Sessions Limit	User Group ID	User Group Tot. Sessions Limit	User Group Name	User Group Total Sessions
AM	Accounting Manager	40 minutes	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	ACC	<input checked="" type="checkbox"/>	Accounting Department	2
MD	Managing Director	20 minutes	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	BOD	<input checked="" type="checkbox"/>	Board of Director	1
PA	Payroll Accountant	1 hour	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	ACC	<input checked="" type="checkbox"/>	Accounting Department	2

Remember to set true User Group Tot. Sessions Limit for needed users.

Check with users. They receive below messages when over group total sessions:

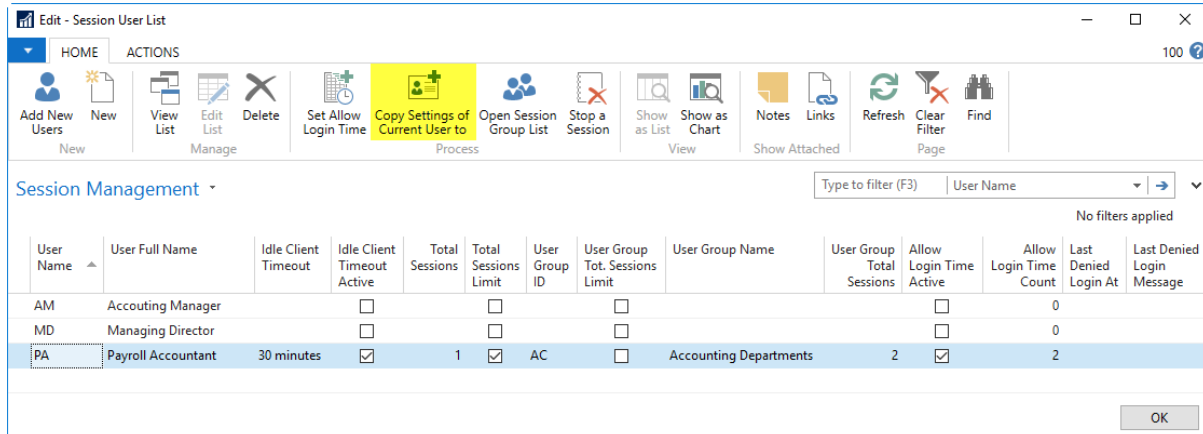


3.5 Copy Settings of Current User to

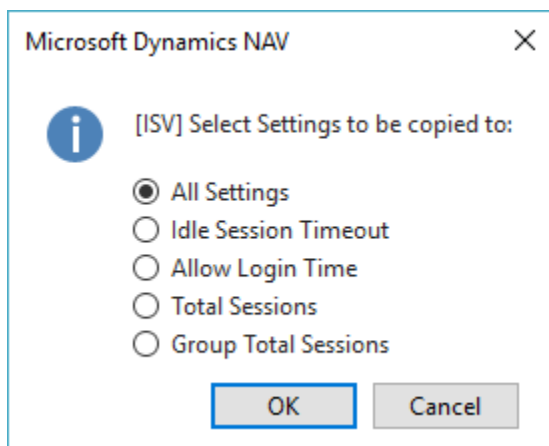
After configured settings (Idle Client Timeout, Allow Login Time, Total Sessions, Group Total Sessions) for a user, you can quickly copy all or per setting to desired users.

On Session User List page:

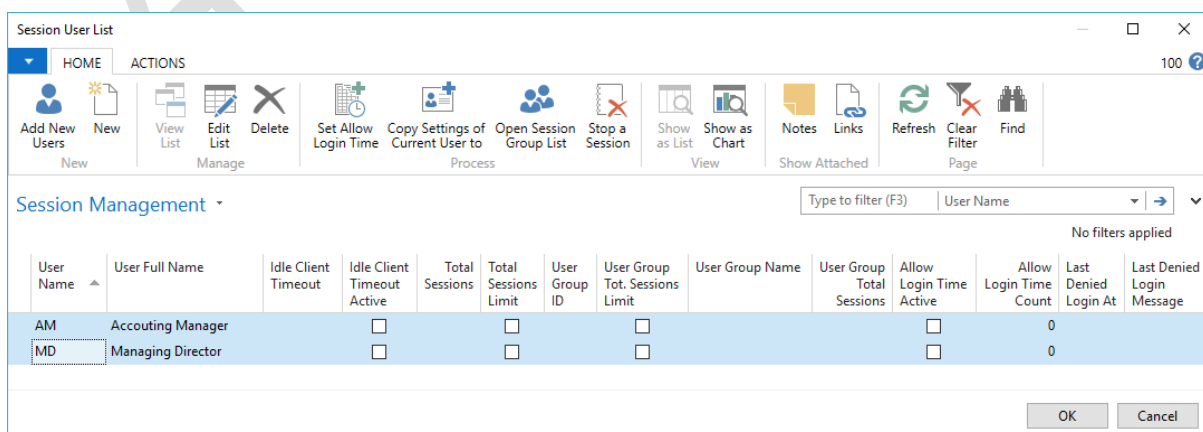
- Select user as Source (from) of copy, then click “Copy Settings of Current User to” action:



- Option Dialog box appears. Select your choice, and click OK:



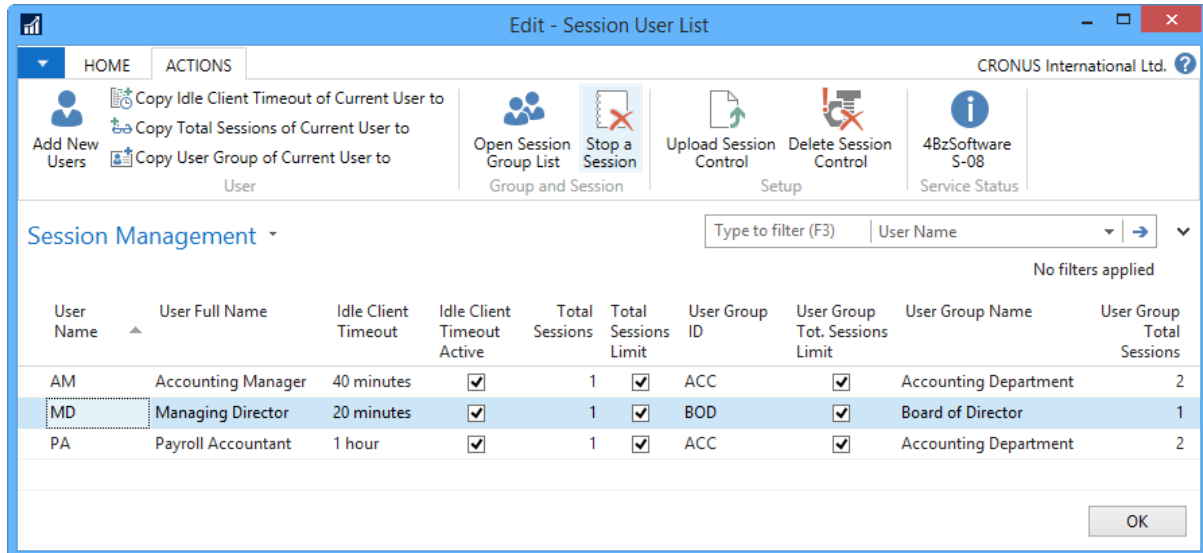
- Session User List page appears. Select desired users as Destination (to) of copy, and click OK:



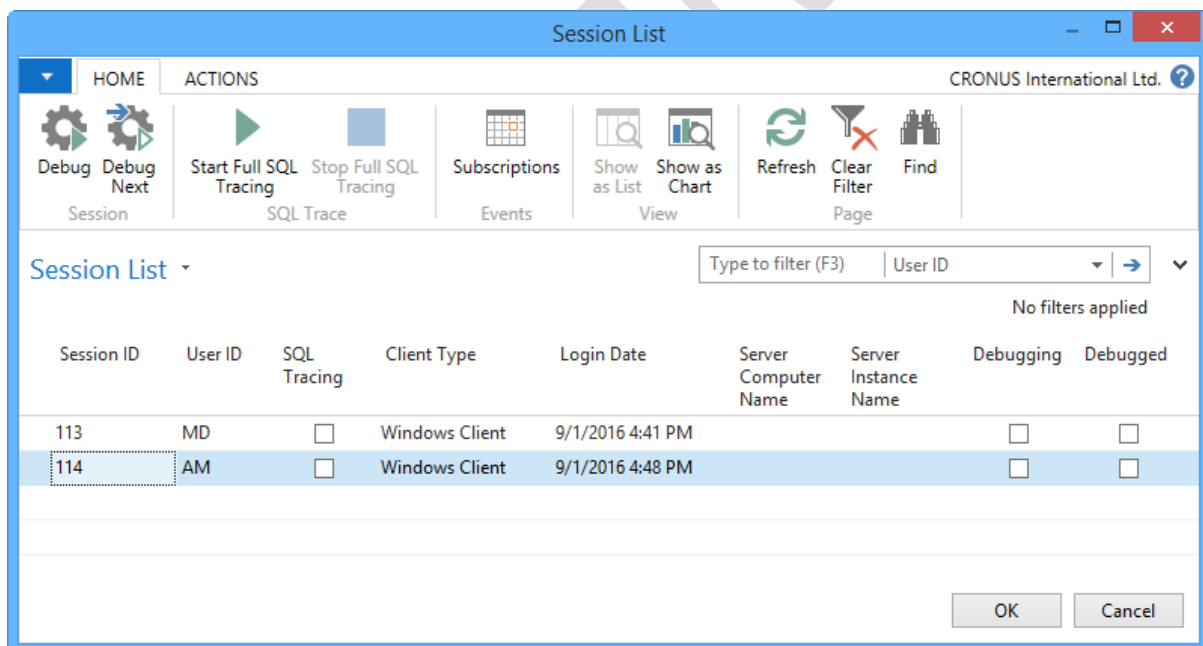
3.6 Stop a Session

You sometimes need to stop a session. You can do it via tool.

In Session User List page, click Stop a Session action:



Session List page appears, select the session that you want to stop and click OK button:



3.7 Count Active Sessions and Stop multiple Sessions

Tool has Active Session List page help you count License Seats consumed by Active Sessions.

To open the page, on Session User List, click Active Session List button:



Active Session List appears:

View - Active Session List

HOME ACTIONS

New View List Edit List Delete Refresh Active Session Stop Selected Sessions Show as List Show as Chart Notes Links Refresh Clear Filter Find

Session Management

Show results:

Where User Name is Enter a value.

Add Filter

Session ID	My Session	User Name	Client Type	Client Computer Name	Total Sessions Limit	Total Sessions	Active Sessions	User Group Tot. Sessions Limit	User Group ID	User Group Total Sessions	User Group Active Sessions	User Full Name	User Group Name	Login At	Server Instance Name
16	<input type="checkbox"/>	NAVDEMO\ADMIN	Windows Client	NAVDEMO	<input type="checkbox"/>	1	1	<input checked="" type="checkbox"/>	G-01	2	2	Group 01	Group 01	5/1/2019 11:25:39....	071
18	<input checked="" type="checkbox"/>	NAVDEMO\ADMIN	Windows Client	NAVDEMO	<input type="checkbox"/>	1	1	<input checked="" type="checkbox"/>	G-01	2	2	Group 01	Group 01	5/1/2019 11:28:29....	071
17	<input type="checkbox"/>	NAVDEMO\USER01	Windows Client	NAVDEMO	<input type="checkbox"/>	1	1	<input checked="" type="checkbox"/>	G-01	2	2	Group 01	Group 01	5/1/2019 11:28:22....	071

Close

- License Seats are default counted by distinct User SID and Client Computer Name. License Seats Count setting is on Session User List page → ACTIONS → Setup button.
- [Active Sessions]: License Seats used by the User.
- [User Group Active Sessions]: License Seats used by the Group of the User.
- Page is sorted by [User Group ID], [User Name] and [Client Computer Name] to make it easier to count License Seats consumed by Group or User.
- You can get latest information by clicking Refresh Active Sessions button.
- Besides, you can stop multiple selected sessions by clicking Stop Selected Sessions button.

4. Technical Point of View

4.1 NAV Objects

The customization includes below NAV objects:

No.	Type	ID	Name	Note
1	Table	99000834	Idle Session Management	
2	Codeunit	1	ApplicationManagement	No need from NAV 2016
3	Codeunit	31	NAV Library	Protected Object
4	Codeunit	65	License Management	Protected Object
5	Codeunit	417	Idle Session Management	Protected Object
6	Page	8	Standard Text Codes	Start Point
7	Page	690	Session Management	
8	Page	9174	All Objects with Caption	
9	Page	9800	Users	No need from NAV 2016

You can list them by filtering Version List column with string *S-06* in Object Designer of Development Environment.

4.2 Merge Objects

Protected Objects (Codeunit 31 to 417) 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-06 string, where they were edited:

Code is bounded by “//S-06{” and “//S-06}”. Search for “S-06” you can see all:

```

Page 578 Session Management - C/AL Editor
Documentation()
Code | Version | Author | Description
-----
S-06 161010 www.4BzSoftware.com Idle Session Management.

OnInit()

OnOpenPage()
//S-06{
CASE gTxt_PageView OF
'Group': BEGIN
    CurrPage.CAPTION := gTxC_SessionGroupList;
    SETCURRENTKEY("Group ID");
    FILTERGROUP(2);
    SETRANGE(Type, Type::Group);
    FILTERGROUP(0);
END;
'Allow Login Time': BEGIN
    CurrPage.CAPTION := STRSUBSTNO(gTxC_AllowLoginTime, gRec_SessionUser."User Name");
    SETCURRENTKEY("Allow Login From", "Allow Login To");
    FILTERGROUP(2);
    SETRANGE(Type, Type::"Allow Login Time");
    FILTERGROUP(0);
    SETRANGE("User SID", gRec_SessionUser."User SID");
END;
ELSE BEGIN //User
    CurrPage.CAPTION := gTxC_SessionUserList;
    SETCURRENTKEY("User Name");
    FILTERGROUP(2);
    SETRANGE(Type, Type::User);
    FILTERGROUP(0);
    gCoU_LicenseMgmt.RemindRenew('S-06', '<-200>');
END;
//S-06}
  
```

Pages often have new fields, actions, variables, text constants. They have code inside:

Page Designer Table:

E.. Type	SubType	SourceExpr	Name	Caption
Container	ContentArea		ContentArea	ContentArea
Group	Repeater		Session User	Session User
Field				
Field				
Field				
Field				
Field				
Field				
Field				
Field				
Field				
Field				

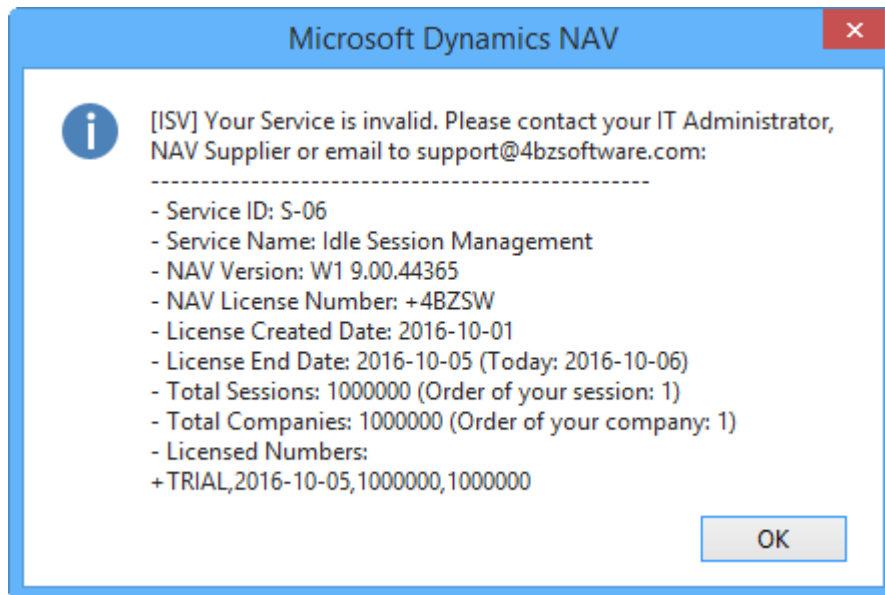
Page - Action Designer Table:

E.. Type	SubType	Name	Caption
ActionContainer	ActionItems	ActionItems	ActionItems
ActionGroup		User	User
Action		Add New Users	Add New Users
Action		Set Allow Login Time	Set Allow Login Time
Action		Copy Settings of Current User to	Copy Settings of Current User to
ActionGroup		Group and Session	Group and Session
Action		Open Session Group List	Open Session Group List
Action		Stop a Session	Stop a Session

1. Add table 99000834 – Idle Session Management:
 - Add fields from 50001 to 50138.
 - Add keys from “Type,ID” to “Type,User SID”.
 - Add global text constant gTxC_AllowLoginTimeWarning.
 - Add function from ActiveSessionsByUser_Int to IsMySession_Bol.
 - Edit trigger OnInsert, OnDelete.
2. Edit Codeunit 1 – ApplicationManagement (for NAV 2013, NAV 2013 R2 and NAV 2015):
 - Edit function CompanyOpen.
3. Add codeunit 31 – NAV Library:
 - Add global variables from gTxA_ServiceInfo to gInt_StatusNextProcessed.
 - Add functions from ServiceInit to LookupPage_Txt.
4. Add codeunit 65 – License Management:
 - Add global variables from gPag_Text1 to gCoU_SessionMgmt.
 - Add functions from IsValid_Bol to GetSessionMgmt.
5. Add codeunit 417 – Idle Session Management:
 - Add global variables from gTxA_ServiceInfo to gDec_Value.
 - Add functions from ServiceInit to SessionControlVersion_Txt.
6. Edit page 8 – Standard Text Codes:
 - Add actions from “4BzSoftware” to “S-06 Idle Session Management”.
7. Add page 690 – Session Management:
 - Add global variables from gCoU_SessionMgmt to gTxt_PageView.
 - Add global text constants from gTxC_SessionUserList to gTxC_StopSelectedSessions.
 - Add functions from GetText to IfInitOrUpdateSetup.
 - Add controls from ContentArea to "B-Count Active Session by".
 - Add actions from ActionItems to “4BzSoftware S-06”.
 - Edit triggers OnOpenPage, OnNewRecord.
8. Edit page 9174 – All Objects with Caption:
 - Add text constants from gTxC_ServiceValid to gTxC_ReadingExcelCell2.
 - Add functions from GetSelectionFilter to GetText.
9. Edit page 9800 – Users (no need from NAV 2016):
 - Add function GetSelectionFilter.

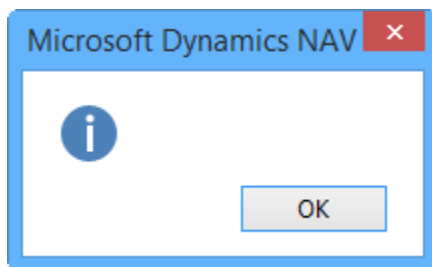
4.3 Troubleshoot

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



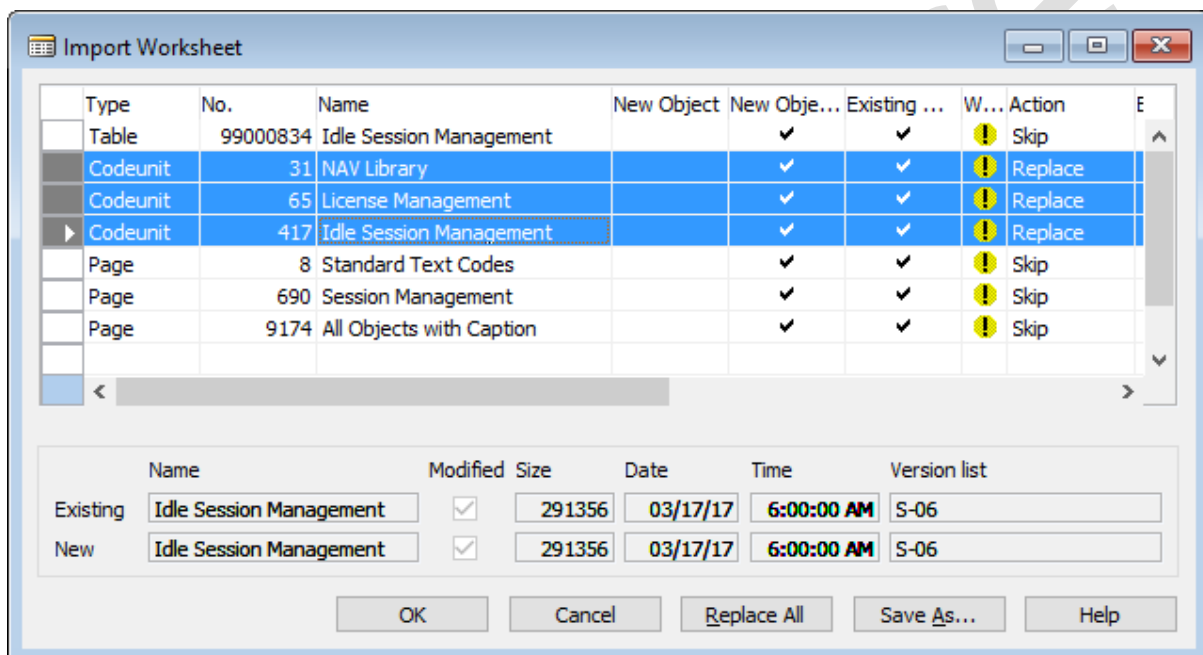
Reason: Service is expired by License End Date or License Number is incorrect.

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

Symptom 2 - Service does not run and Service Status shows blank message:

Reason: Protected objects were edited and compiled.

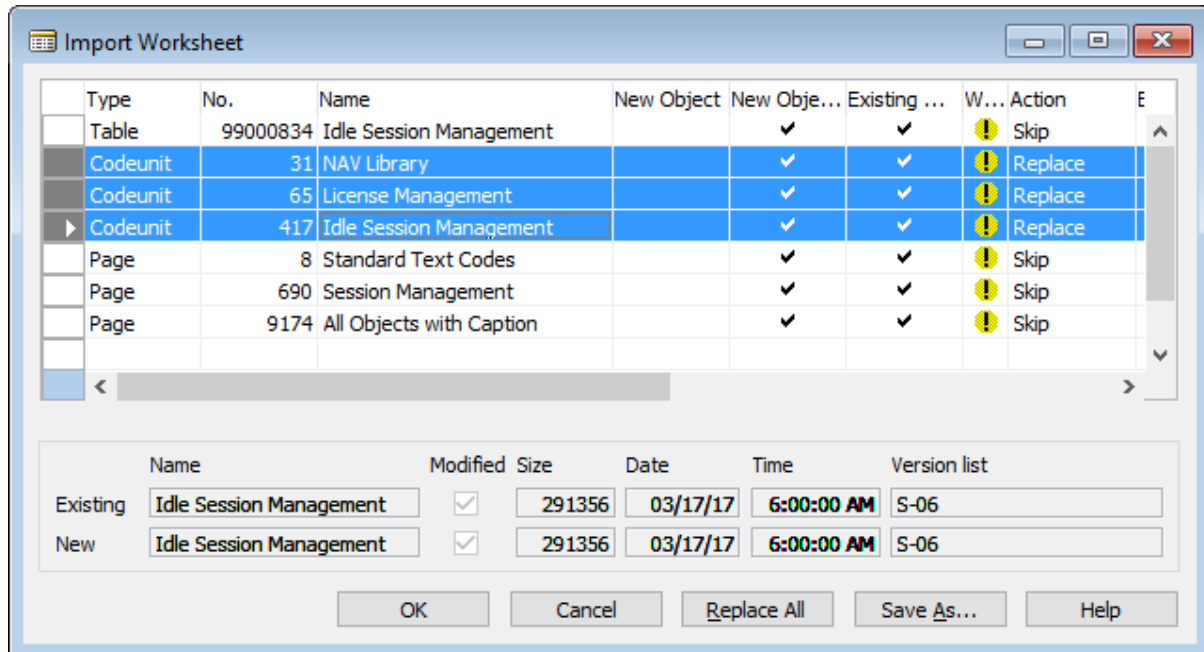
Solution: Reimport with replace them by Protected objects from 4BzSoftware:



Symptom 3 - Protected objects were complied accidentally:

Reason: Protected objects were complied accidentally.

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



4.4 Version Control

Version (yyymmdd)	Description
161010	<ol style="list-style-type: none">1. Release tool for NAV 2013 (version 070).2. Release tool for NAV 2013 R2 (version 071).3. Release tool for NAV 2015 (version 080).4. Release tool for NAV 2016 (version 090).
170117	<ol style="list-style-type: none">1. Release tool for NAV 2017 (version 100).2. Remove section 2.4 - Upload Session Control for Idle Client Timeout feature.
170702	<ol style="list-style-type: none">1. New feature: Allow Login Time Range.2. New feature: Last Denied Login Information.3. New feature: Handle Running report dialog.4. Edit Copy Settings of Current User to function.5. Change ID of page, from 578 to 690.
180125	<ol style="list-style-type: none">1. Release tool for NAV from 2013 to 2018 (version 070 to 110).
180625	<ol style="list-style-type: none">1. Enhance user-friendly message when user cannot login system.
190116	<ol style="list-style-type: none">1. Release tool for NAV from 2013 to 2018 + 365 Business Central (version 070 to 130).
190912	<ol style="list-style-type: none">1. Count consumed License Sessions of User/Group by User SID and Client Computer.2. Active Session List combining setting info for counting consumed License Sessions.3. Stop multiple Active Sessions.

5. Pricing

Please contact us via email support@4bzsoftware.com

or visit www.4bzsoftware.com/product/idle-session-management.html

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This is last page.

Thank you!