

Version Manager



Installing the
Version Manager
VM1.09

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<http://versionmanager.dk>

Indholdsfortegnelse

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Prerequisites

To install Version Manager, the following prerequisites must be met:

- Dynamics NAV 2013 R2 or newer
- SQL Server 2008 R2 or newer
- Windows server 2008 R2 or newer

The User running the Dynamics NAV service must be Local Administrator on the NAV server and Setup Admin on the SQL Server.

If the full functionality is implemented, a compare program must be installed on all clients that need to access the objects.

Dynamics NAV Development Environment must be installed

User must have access to the Development Environment. The user running the Version Manager must be a domain user and all servers must be on the same domain or must be a local user created with same credentials on each server. It is not possible to mix domain and local users.

Installing Version Manager

License File

In order to install the free Version Manager in an existing Dynamics NAV solution, it is necessary to obtain a new license file from your Dynamics NAV partner.

Prerequisites for the different version are as follows:

	Starter or Extended Pack	Object Design	Application Builder	Solution Builder	Developers License
Freeware	●				
Object Backup	●				
Customer Edition	●	●	●	●	
Partner Edition	●	●	●	●	●

- Prerequisite – must be present for Version Manager to function properly
- Optional – The more rights the license has, the more functionality will be opened.

	Starter or Extended Pack	Object Design	Application Builder	Solution Builder	Developers License
Freeware	60 days Object Backup of one database				
Object Backup	Object Backup of up to five databases				
Customer Edition	Object Backup of up to ten databases	Comparing Databases & Build Management	Compare code changes & Export previous versions to text files for licensed objects only	Compare code changes & Export previous versions to text files	Compare code changes & Export previous versions to text files
Partner Edition	Object Backup of unlimited no. of databases	Comparing Databases & Build Management	Compare code changes & Export previous versions to text files for licensed objects only	Compare code changes & Export previous versions to text files	Compare code changes & Export previous versions to text files

Part of the new license will include access to the Version Manager:

Freeware edition:

6185510	Version Manager	Freeware	6185471	6185485	Codeunit	---DX
6185510	Version Manager	Freeware	6185471	6185485	Page	R--DX
6185510	Version Manager	Freeware	6185471	6185485	Query	R--DX
6185510	Version Manager	Freeware	6185471	6185482	Report	R--DX
6185510	Version Manager	Freeware	6185471	6185485	TableData	RIMD-
6185510	Version Manager	Freeware	6185471	6185485	TableDescription	R--DX
6185510	Version Manager	Freeware	6185471	6185485	XMLPort	R--DX

Object Backup:

6185490	Version Manager	Object Backup	6185471	6185485	Codeunit	---DX
6185490	Version Manager	Object Backup	6185471	6185485	Page	R--DX
6185490	Version Manager	Object Backup	6185471	6185485	Query	R--DX
6185490	Version Manager	Object Backup	6185471	6185483	Report	R--DX
6185490	Version Manager	Object Backup	6185471	6185485	TableData	RIMD-
6185490	Version Manager	Object Backup	6185471	6185485	TableDescription	R--DX
6185490	Version Manager	Object Backup	6185471	6185485	XMLPort	R--DX

Customer Edition:

6185480	Version Manager	Customer Edition	6185471	6185485	Codeunit	---DX
6185480	Version Manager	Customer Edition	6185471	6185485	Page	R--DX
6185480	Version Manager	Customer Edition	6185471	6185485	Query	R--DX
6185480	Version Manager	Customer Edition	6185471	6185484	Report	R--DX
6185480	Version Manager	Customer Edition	6185471	6185485	TableData	RIMD-
6185480	Version Manager	Customer Edition	6185471	6185485	TableDescription	R--DX
6185480	Version Manager	Customer Edition	6185471	6185485	XMLPort	R--DX

Partner Edition:

6185500	Version Manager	Partner Edition	6185471	6185485	Codeunit	---DX
6185500	Version Manager	Partner Edition	6185471	6185485	Page	R--DX
6185500	Version Manager	Partner Edition	6185471	6185485	Query	R--DX
6185500	Version Manager	Partner Edition	6185471	6185485	Report	R--DX
6185500	Version Manager	Partner Edition	6185471	6185485	TableData	RIMD-
6185500	Version Manager	Partner Edition	6185471	6185485	TableDescription	R--DX
6185500	Version Manager	Partner Edition	6185471	6185485	XMLPort	R--DX

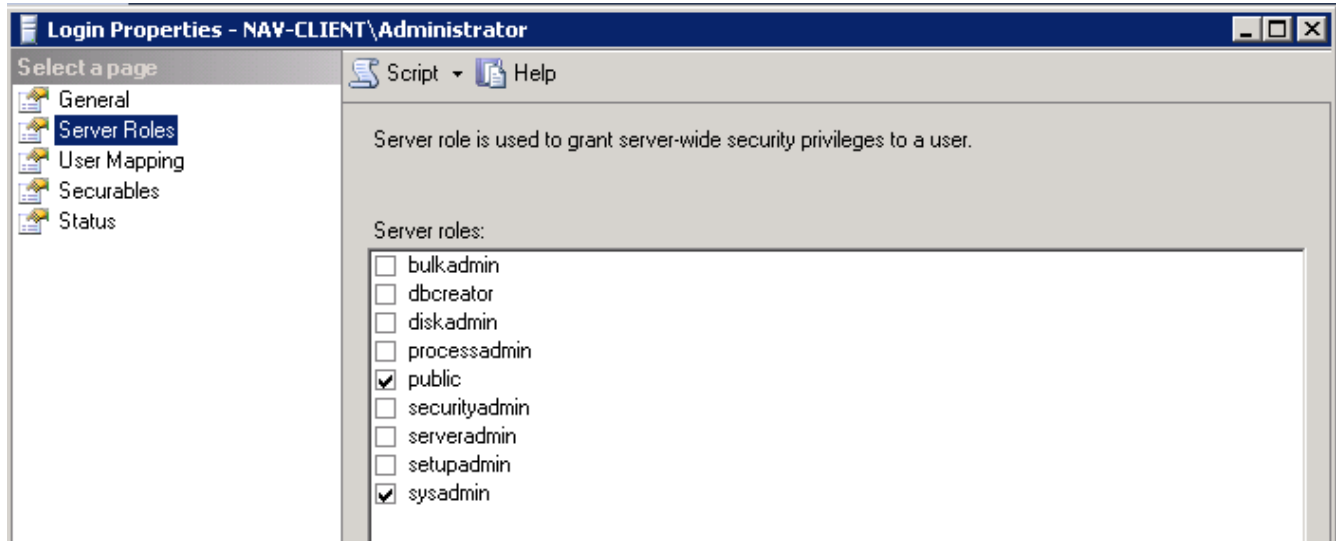
Users

There are two users involved in installing Version Manager:

- The user making the actual implementation
- The user running the Dynamics NAV Server Instance

When installing a Dynamics NAV from the installation media a SQL server express version can be installed too.

In that process, the user making the actual implementation is automatically given privilege as Sysadmin.



In the installation process, it is also defined, which user is running the Dynamics NAV Server Instance. If no user is chosen, the user: NT AUTHORITY\NETWORK SERVICE is selected to run the Dynamics NAV Server Instance.

Regardless if a domain user, a local user or Network Service is used, the user must be given these privileges in the SQL server:



Limited users

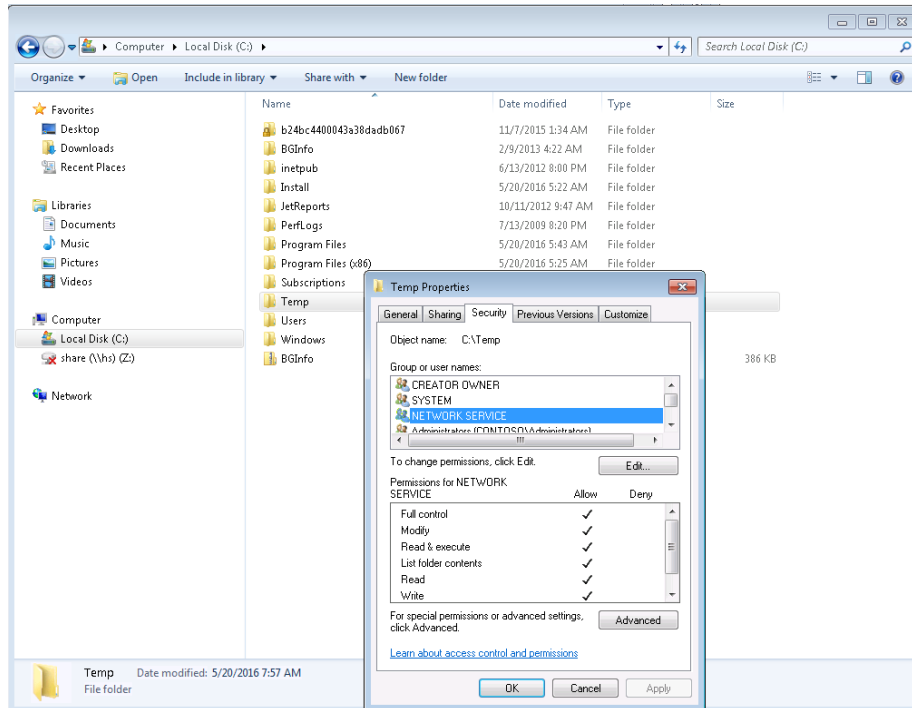
It is possible to add limited users and super users in Version Manager.

Limited users can only read data and cannot perform any modifications to the database. The Limited user could be if management want to follow the development of the database or an auditor who needs access to the information to perform a full system audit.

The permission set for the limited users and the super user can be retrieved using a RapidStart configuration package. The package can be found in the installation media in the RapidStart folder.

Temporary path

Due to the length of the system temporary path, it is necessary to give the user is running the Dynamics NAV Server Instance full control over the “c:\temp” folder on the machine where the NAV service is running. This can be achieved by right-clicking the folder in the explorer and choosing the Security tab:



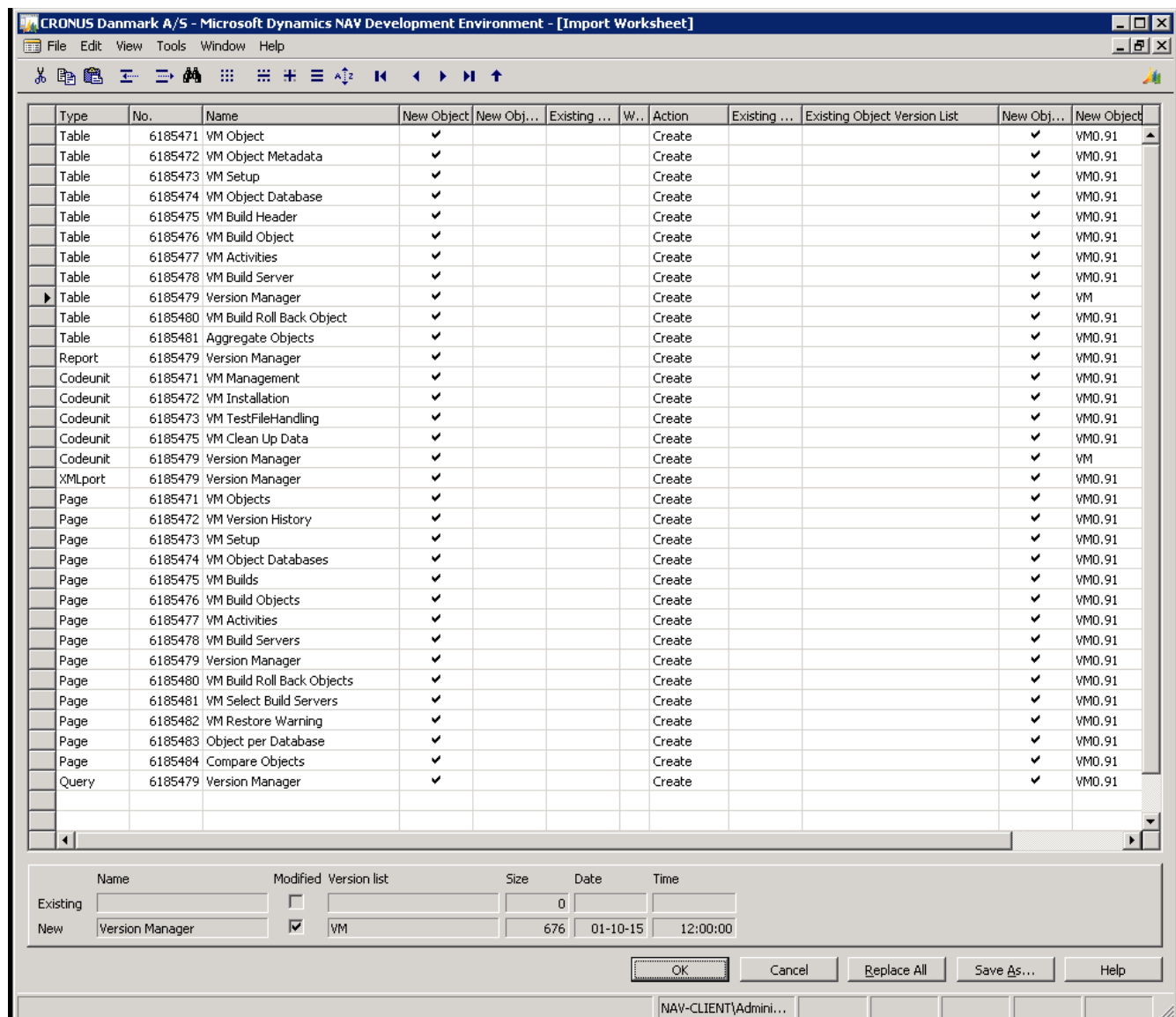
In this case full control at been granted to the Network Service user.

Objects

Download the newest objects from the web site:

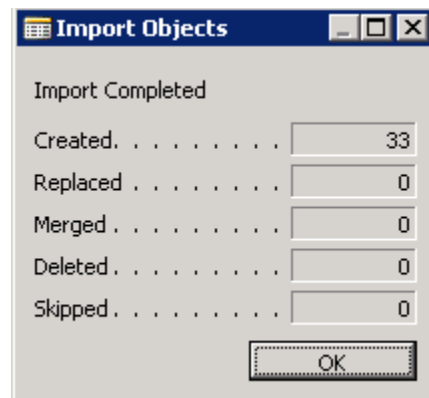
- Dynamics NAV 2013 R2: http://ba-consult.dk/versionmanager/071/VM_71.zip
- Dynamics NAV 2015: http://ba-consult.dk/versionmanager/080/VM_80.zip
- Dynamics NAV 2016: http://ba-consult.dk/versionmanager/090/VM_90.zip
- Dynamics NAV 2017: http://ba-consult.dk/versionmanager/100/VM_100.zip

Start the Microsoft Dynamics NAV Development Environment and import



Notice that the action has been set to **Create** for all the objects.

Click Ok to import the objects. And the following message appears.

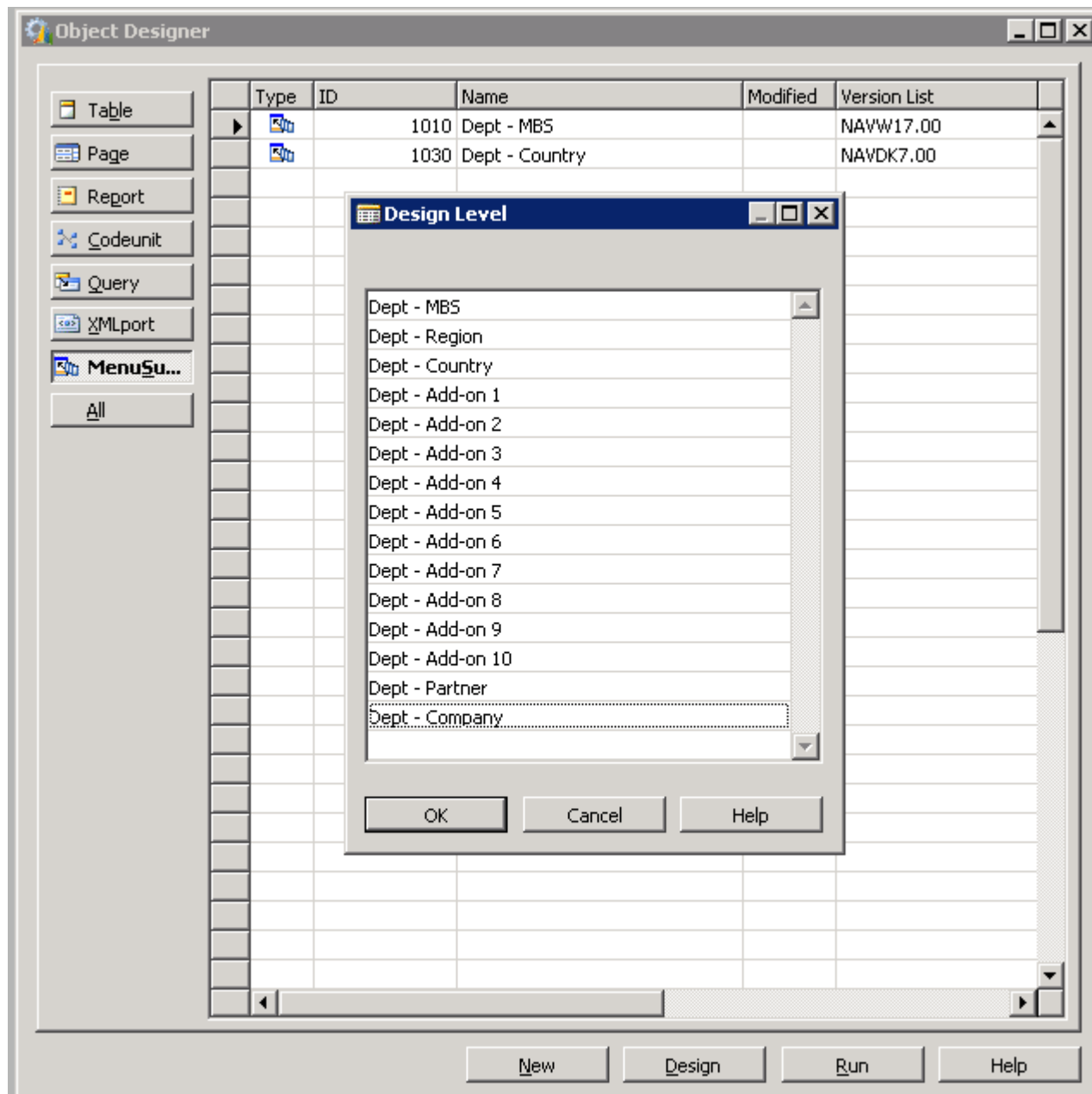


Implement Version Manager manually in MenuSuite

To enable Version Manager in the Departments Menu, the following menu a number of items must be added to the Company MenuSuite. This can either be done by importing the object MenuSuite 1060 Version Manager or manually. So, if the object MenuSuite 1060 Version Manager has been installed ALL MenuSuite objects must be compiled to take effect. If Version Manager is to be installed manually, here is what to do:

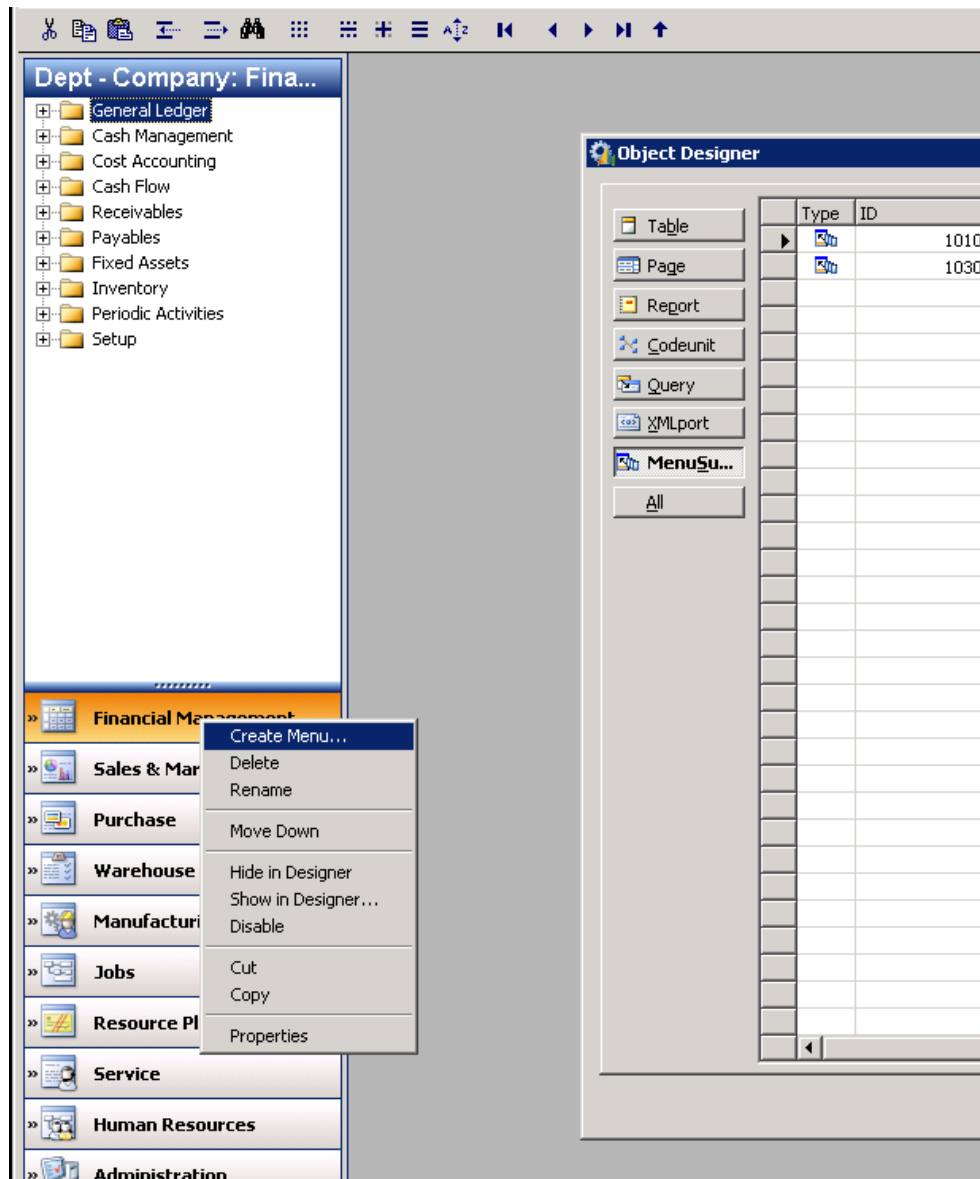
In the Development Environment go to design and MenuSuite.

If the Company MenuSuite does not exist, press F3 to create a new, choose the Dept – Company and press ok.

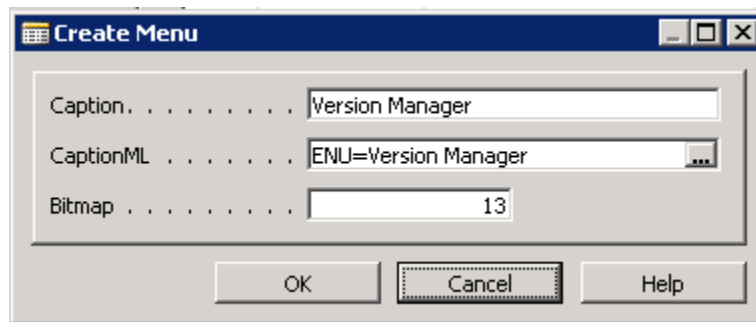


If the Company MenuSuite already exists, click design.

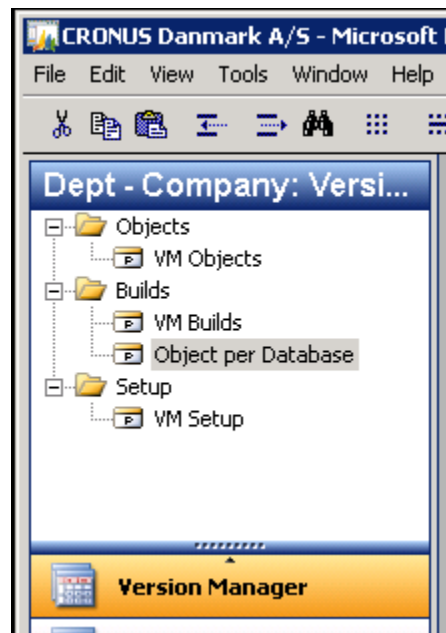
Next Create a new Menu Item.



The name of the menu: Version Manager.



Add the objects to the MenuSuite:



Objects:

- VM Objects – Page 6185471

Builds:

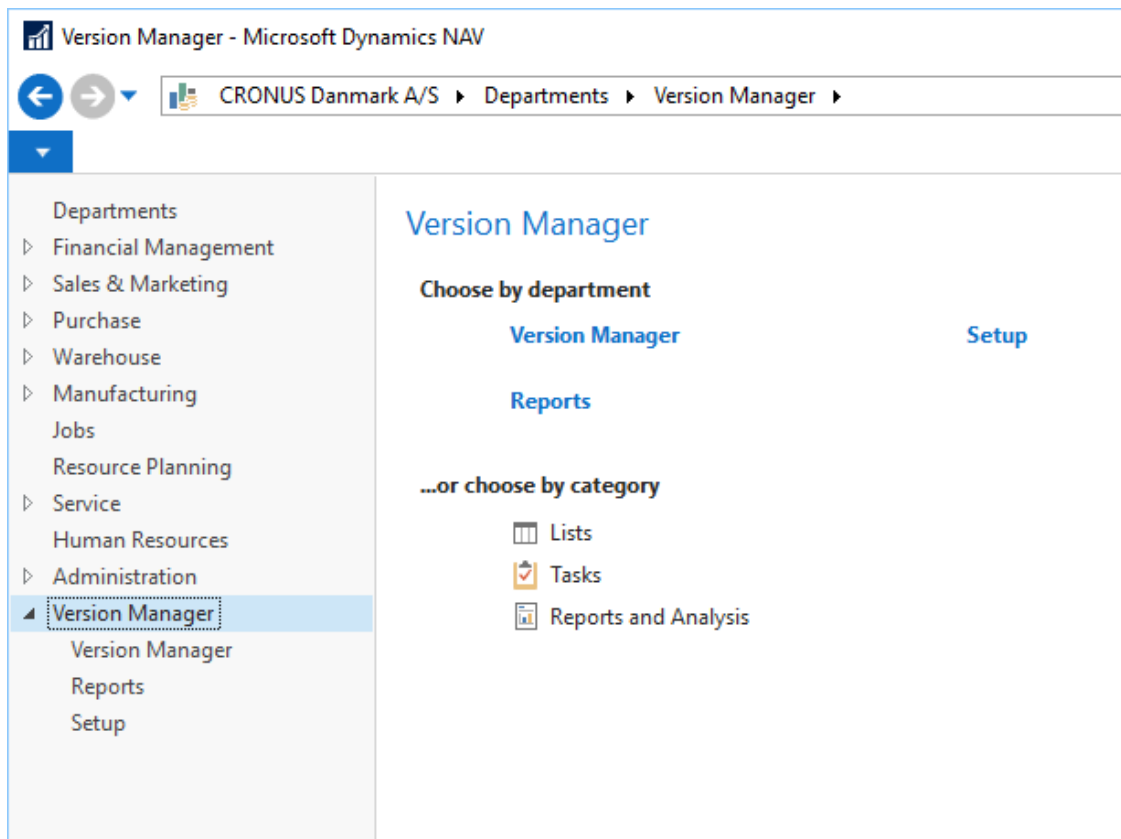
- VM Builds – Page 6185475
- Objects per Database – Page 6185483

Setup:

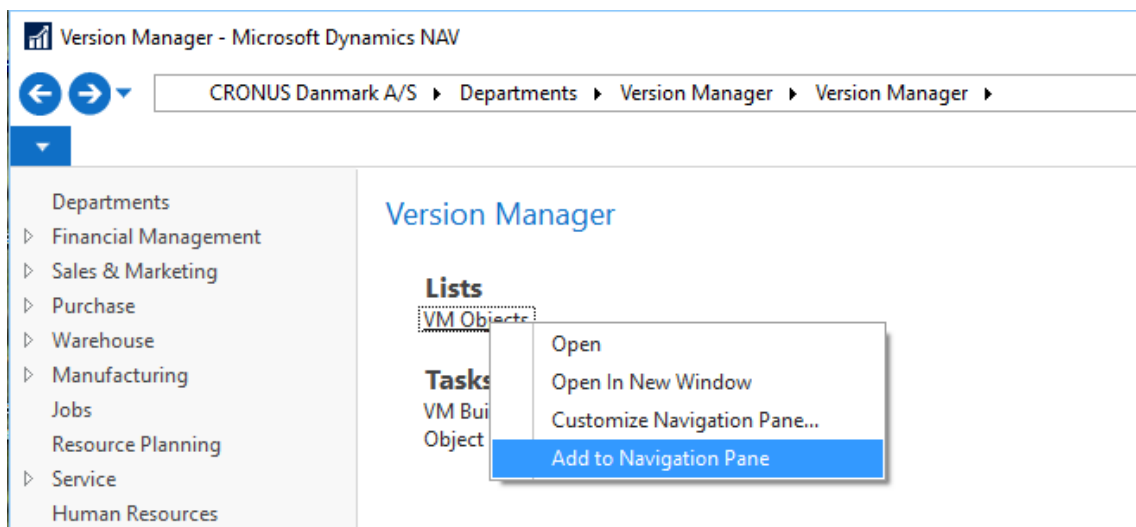
- VM Setup – Page 6185473

Save and exit.

After restarting the RoleTailored Client the Version Manager is now part of the Departments menu.



In order to add the VM Objects to the IT-Manager Role Center, right-click the menu item VM Objects and select the Add to Navigation Pane.



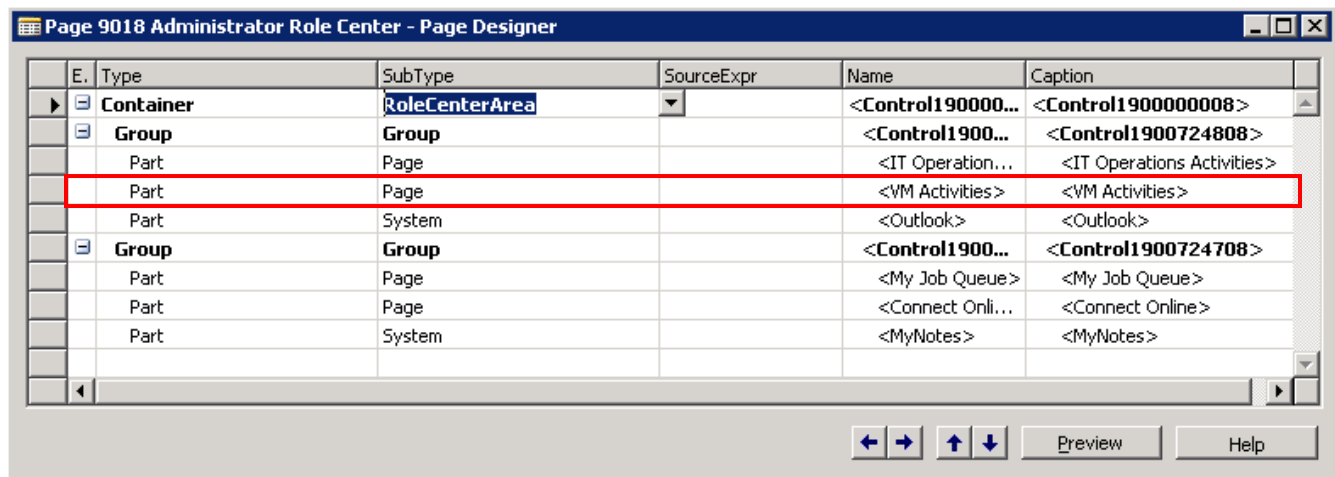
This is only possible if the Category Lists were chosen when creating the menu item in MenuSuite.

Implement Version Manager in the IT-Manager Role Center

In order to provide the IT-Manager with an extra overview over all changed objects in the solution, an extra activities page can be added to the IT-Manager Role Center.

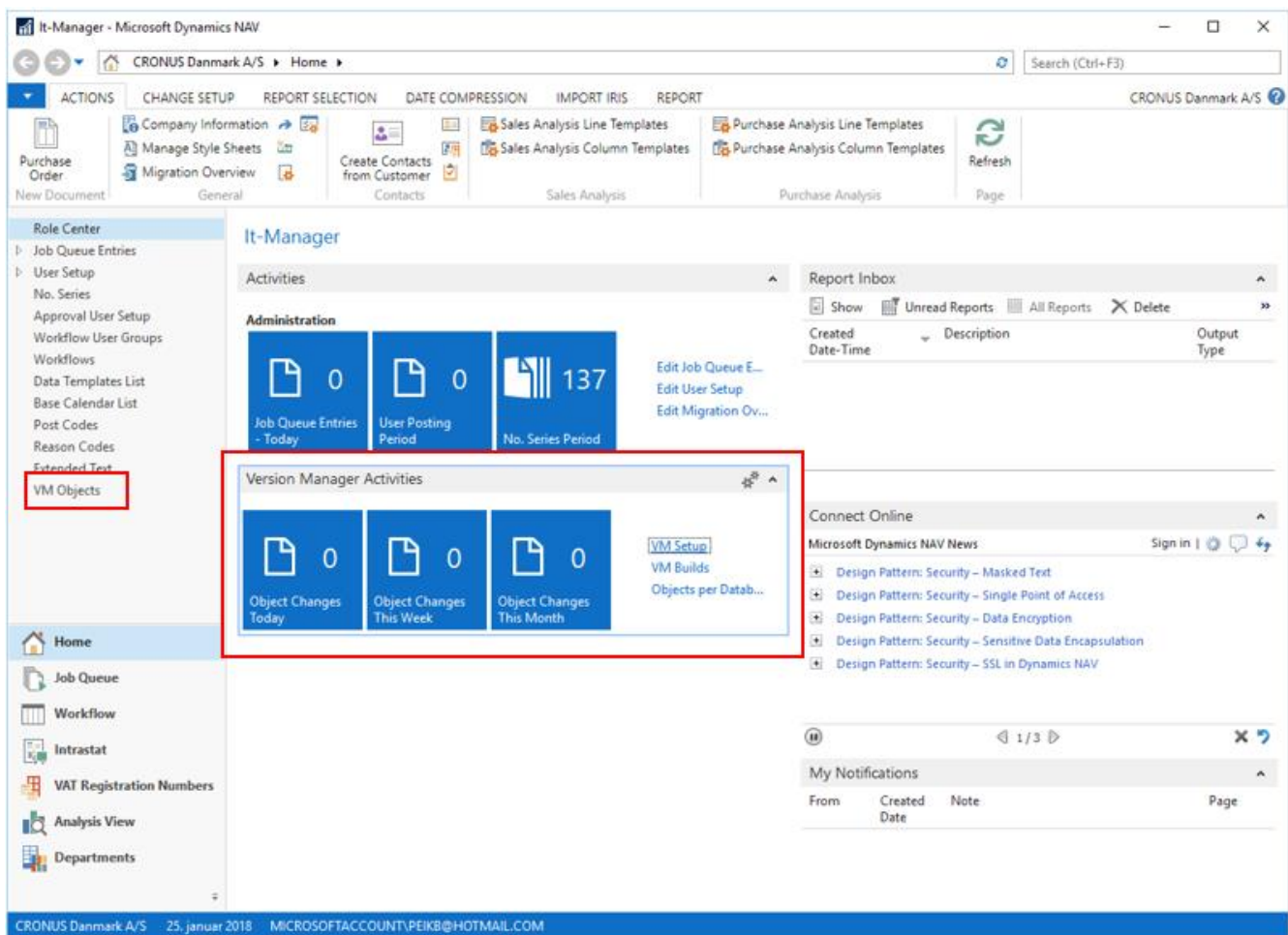
In the Development Environment go to design and Pages.

Add one line under the IT-Operations Activities Line:



The Type must be **Part** and the Page number **6185477**.

This will add an extra Activities page to the Role Center.



Now the IT-Manager has access to Version Manager which includes the actions:

- VM Setup
- VM Builds
- Objects per Database

Set up Version Manager

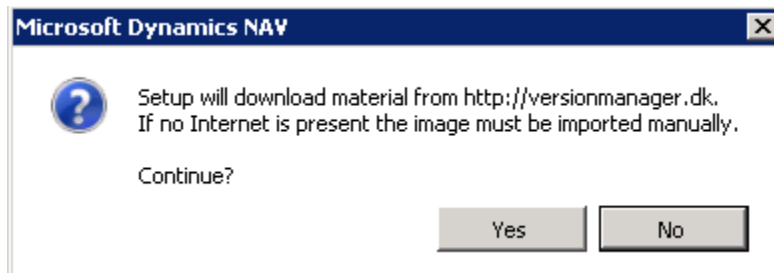
Now Version Manager must be set up. Depending on which version of Version Manager has been acquired, there are different limitations:

- Freeware Version: Only one database can be monitored
- The monitored database must be the same database where Version Manager is installed.
- The Solution will only be functional for 60 days. After that changes to objects will no longer be registered but the historical data will remain in the database.
- Object Backup: Up to five databases can be monitored.
- The Version Manager database can be in one of the monitored database or it can reside in a separate database.
- Only backup and restore functionality is provided with the Object Backup version.
- Customer Edition: Up to five databases can be monitored
- The Version Manager database can be in one of the monitored database or it can reside in a separate database.
- The functionality provided includes:
- Object Backup
 - Build management
 - Objects per database
- Partner Edition: It is possible to monitor unlimited number of databases
- The Version Manager database can be in one of the monitored database or it can reside in a separate database.
- The functionality provided includes:
- Object Backup
 - Object export
 - Build management
 - Objects per database

The setup can be performed manually or using a configuration questionnaire. The questionnaire for the setup can be found in the installation media in the RapidStart folder.

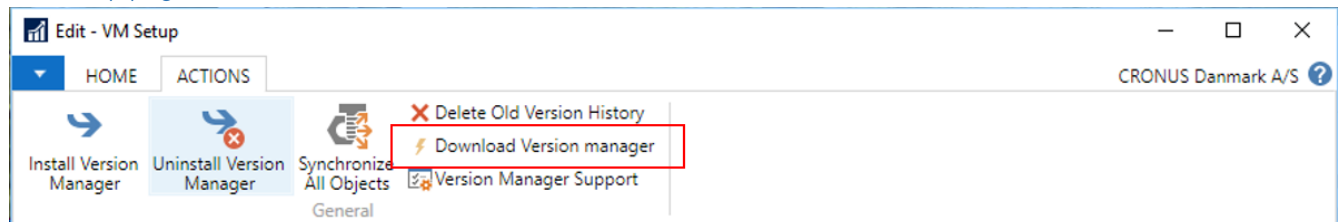
General Setting up

First time the Setup page is opened, the following message appears:



This will download different scripts and other material from the Version Manager web site. This is to ensure, that the latest version of the source code is being installed. If there are no access to Internet during the installation process, the scripts must be installed manually later from the setup page.

The Setup page



Installation of the Freeware edition

Installing the Freeware version of Version Manager will leave only a few option to change in the setup page. The rest is automatically filled.

VM Setup

General	
Path to Compare program:	...
Program Parameters:	%1 %2
Path for Development Env:	C:\Program Files (x86)\Microsoft Dyna... ..
Expiry Date:	02-01-2017
License Type:	Freeware
License No:	
VM Version:	
Installation Verified:	<input type="checkbox"/>

SQL Server VM	
SQL Server User ID:	
SQL Server Password:	
Windows Authentication:	<input checked="" type="checkbox"/>

Version Manager Database	
SQL Server Name:	DESKTOP-2AFPBLN
SQL Instance Name:	
VM Database Name:	Demo Database NAV (9-0) VM Dev
VM Database Collation:	
VM Database Version:	

On initialization the field: **Program Parameters** will be automatically filled. It will also try to find the Development Environment automatically.

If that fails, the path to the Development Environment must be manually entered.

The field Path to Compare program must be filled manually.

Version Manager have been tested with the compare tools: **Beyond Compare**, **Ultra Compare** and **WinMerge**, but any compare tool will do as long as they accept the comparing files as parameters. If the parameters differ from the format **Beyond Compare** and **Ultra Compare** uses, the parameters can be altered manually in the field **Program Parameters**.

It is essential that all users have the same version of the compare program installed.

Expiry Date: If the License type has been identified as Freeware, a Expiry Date will be calculated. If Version Manager has been purchased as a subscription on a lease base the Expiry Date will mark the end of the lease period.

License Type: There are four different license types:

- Freeware
- Object Backup
- Customer Edition
- Partner Edition

The License type will be recalculated every time the setup page is started.

License No. The Dynamics NAV License No registered with the database.

VM Version: The current version of the objects will appear here. It is recalculated every time the setup page is started.

Installation Verified: Indicates that the functionality has been installed and is ready to use for the Version Manager database.

SQL Server User ID: The user id used for accessing the SQL server, if not using Windows Authentication.

SQL Server Password: The password to access the SQL server

Windows Authentication: If this field is marked, the user installing Version Manager must have access to the SQL server.

Server Name: SQL server name

Instance: SQL server instance

Version Manager Database: The database where the object backups will be stored.

Object Databases

In the Object Database page, all databases to be included in Version Manager must be added.

This is both databases that will function as development and test databases and therefore “deliver” all object changes to Version manager, as well as the databases to “receive” objects from Version Manager.

Object Databases									
Server Name	Server Instance	Database Name	Database Version	Install	Versi... Man...	Inst... Verif...	Obj... Are...	Dev... Data...	
DESKTOP-2AFPBLN		Demo Database NAV (9-0) VM Dev		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

In the Freeware edition, the **Database Collation** and **Database Version** fields are filled automatically, and will ensure that if the databases have different collations, it will still be possible to install.

Any other version of Version Manager will allow manually adding additional Object Databases:

Object Databases									
Server Name	Server Instance	Database Name	Database Version	Install	Versi... Man...	Inst... Verif...	Obj... Are...	Dev... Data...	Loc... for ...
DESKTOP-IBG0PQH		Demo Database NAV (9-0) W1	2016	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DESKTOP-IBG0PQH		Demo Database NAV (9-0) W1 DEV	2016	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DESKTOP-IBG0PQH		Demo Database NAV (9-0) W1 TE...	2016	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

As a help, a function has been added to Insert the default server name and instance on the line.

New servers can be installed and uninstalled on the fly. Regardless of the status of the other object databases.

The fields in the object databases are:

Server Name: SQL server name

Server Instance: SQL server instance

Object Database Name: The database containing the objects that must be backed up.

Install: On/Off switch for installing the database.

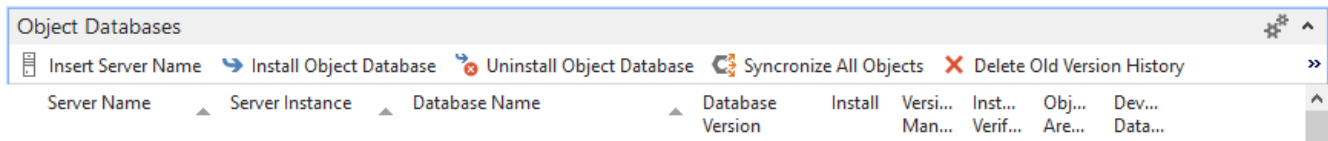
Version Manager Active: Indicates that Version manager is installed and active for this database.

Installation Verified: Indicates that the functionality has been installed and is ready to use for the Object database: It is only running if the field: **Version Manager Active** is marked.

Object are Synchronized: The objects in the Version Manager database are in Sync with the object database.

Development Database: If the field is marked, changes to the object will only be stored if the object is NOT locked. This is to prevent cascades of object changes during the development phase. The object will be stored as soon as it is unlocked.

Locked for Changes: If the field is marked it is not possible to apply any changes to any objects in the database.



In the ribbon, there are a number of actions that will function for the **selected database only**:

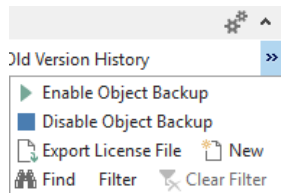
Install Version Manager: Installs the functionality necessary to run Version Manager.

Uninstall Version Manager: Uninstalls the functionality necessary to run Version Manager, but leaves the data untouched.

Synchronize All Objects: Creates a new base version of all objects in the database.

Delete History: Deletes the history, but leaves the base versions untouched.

A Number of additional actions are available by clicking the double arrows >>

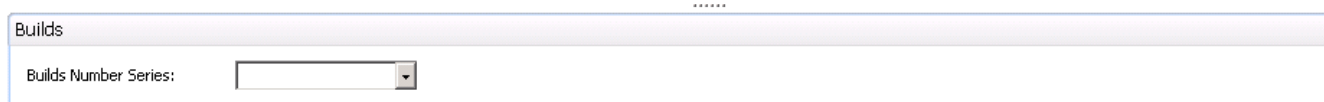


Enable Object Backup: Start making backup of the changes made to the objects all the Object Databases. The object backup can only be started if the installation has been verified.

Disable Object Backup: Stop making backup of the changes made to the objects all the Object Databases. This can be turned on and off as often as necessary, it will just pick up where it left when restarted. However, changes made objects to objects in the disabled period will not be made.

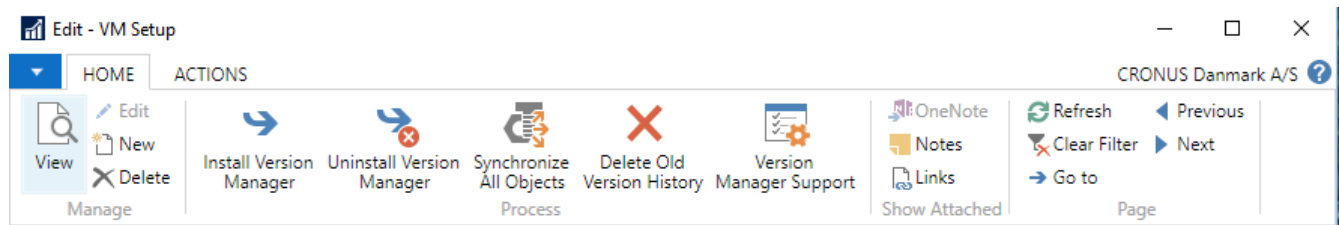
Export License file: This will export the license file that is stored, either in the master database or in the database individually.

The last FastTab of the setup is only visible with the Customer Edition or Partner Edition of Version Manager:



Builds number series: The number series for making builds

The Ribbon



In the ribbon, there are a number of actions that will function for ALL databases:

Install Version Manager: Installs the functionality necessary to run Version Manager.

Uninstall Version Manager: Uninstalls the functionality necessary to run Version Manager, but leaves the data untouched.

Synchronize All Objects: Creates a new base version of all objects in the database.

Delete History: Deletes the history, but leaves the base versions untouched.

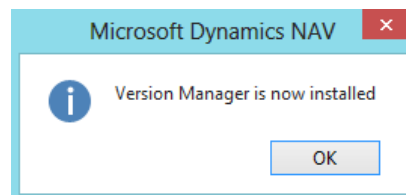
Enable Object Backup: Start making backup of the changes made to the objects all the Object Databases. The object backup can only be started if the installation has been verified. The Action is hidden by default but can be retrieved by customizing the page.

Disable Object Backup: Stop making backup of the changes made to the objects all the Object Databases. This can be turned on and off as often as necessary, it will just pick up where it left when restarted. However, changes made objects to objects in the disabled period will not be made. The Action is hidden by default but can be retrieved by customizing the page.

Version Manager Support: Opens a new window with the Version Manager support system. If any issues occur, it will be possible to raise a ticket here. For users of the Freeware version it is possible to login with user id: Freeware and password Freeware123. Registered users will get a login with the confirmation mail.

Installing Version Manager

To install Version Manager, Click the Install Version Manager action and wait until the completion message:

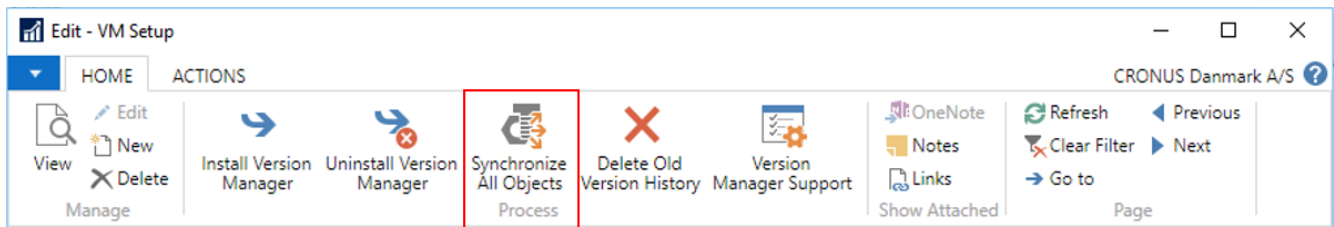


Verify that the Installation Verified is marked:

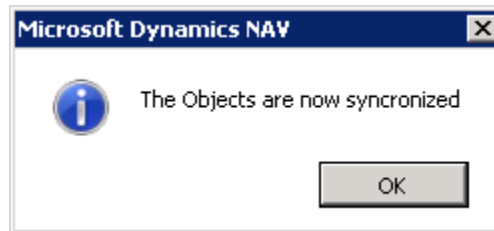
VM Setup

General	
Path to Compare program:	C:\Program Files\Beyond Compare 4\BC... <input data-bbox="771 331 795 363" type="button" value="..."/>
Program Parameters:	%1 %2
Path for Development Env:	C:\Program Files (x86)\Microsoft Dyna... <input data-bbox="771 415 795 447" type="button" value="..."/>
Expiry Date:	02-01-2017
License Type:	Customer Edition <input data-bbox="1421 342 1445 373" type="button" value="v"/>
License No:	<input type="text"/>
VM Version:	1.00
Installation Verified:	<input checked="" type="checkbox"/>

Lastly, all objects must be synchronized:



Giving this message:



There will be no indication of the Object Backup is running, other than the check mark in the setup page:

Object Databases					
<input type="button" value="Insert Server Name"/> <input type="button" value="Install Object Database"/> <input type="button" value="Uninstall Object Database"/> <input type="button" value="Synchronize All Objects"/> <input type="button" value="Delete Old Version History"/>					
Server Name	Server Instance	Database Name	Database Version	Install	Versi... Man...
DESKTOP-2AFPBLN		Demo Database NAV (9-0)		<input type="checkbox"/>	<input type="checkbox"/>
DESKTOP-2AFPBLN		Demo Database NAV (9-0) DEV	2016	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DESKTOP-2AFPBLN		Demo Database NAV (9-0) TEST	2016	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Going to the VM Objects in the Home Menu shows that all objects now exist in Version Manager.

VM Objects - Microsoft Dynamics NAV

CRONUS Danmark A/S > Home > VM Objects

Filter: DESKTOP-2AFPBLN • " • 'Demo Database NAV (9-0) DEV'

Type	ID	Name	Mo...	Co...	Date	Time	Version List	Handle Date	Handle Time
Table	3	Payment Terms	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15-09-2015	12:00:00	NAVW19.00,NAVVK9.00	02-10-2016	16:35:56
Table	4	Currency	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15-09-2015	12:00:00	NAVW19.00,NAVVK9.00	02-10-2016	16:35:56
Table	5	Finance Charge ...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15-09-2015	12:00:00	NAVW19.00	02-10-2016	16:35:56
Table	6	Customer Price ...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15-09-2015	12:00:00	NAVW19.00	02-10-2016	16:35:56
Table	7	Standard Text	<input type="checkbox"/>	<input checked="" type="checkbox"/>	07-09-2012	12:00:00	NAVW17.00	02-10-2016	16:35:56
Table	8	Language	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15-09-2015	12:00:00	NAVW19.00	02-10-2016	16:35:56
Table	9	Country/Region	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15-09-2015	12:00:00	NAVW19.00,NAVVK9.00	02-10-2016	16:35:56
Table	10	Shipment Method	<input type="checkbox"/>	<input checked="" type="checkbox"/>	07-09-2012	12:00:00	NAVW17.00	02-10-2016	16:35:56
Table	13	Salesperson/Pur...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	26-11-2015	12:00:00	NAVW19.00.00.43897	02-10-2016	16:35:56

Testing Version Manager

A quick test can be made by entering the Development Environment and make a change to an object:

CRONUS Danmark A/S - Microsoft Dynamics NAV Development Environment

File Edit View Tools Window Help

Object Designer

Type	ID	Name	Modified	Version List	Date	Time	Comp
Table	3	Payment Terms		NAVW17.00,NAVVK7.00	07-09-12	12:00:00	▼
Table	4	Currency		NAVW17.00,NAVVK7.00	07-09-12	12:00:00	▼
Table	5	Finance Charge Terms		NAVW17.00	07-09-12	12:00:00	▼
Table	6	Customer Price Group		NAVW17.00	07-09-12	12:00:00	▼
Table	7	Standard Text		NAVW17.00	07-09-12	12:00:00	▼
Table	8	Language		NAVW17.00	07-09-12	12:00:00	▼
Table	9	Country/Region		NAVW17.00,NAVVK7.00	07-09-12	12:00:00	▼
Table	10	Shipment Method		NAVW17.00	07-09-12	12:00:00	▼
Table	13	Salesperson/Purchaser		NAVW17.00	07-09-12	12:00:00	▼
Table	14	Location		NAVW17.00	07-09-12	12:00:00	▼
Table	15	G/L Account		NAVW17.00	07-09-12	12:00:00	▼
Table	17	G/L Entry		NAVW17.00	07-09-12	12:00:00	▼
Table	18	Customer		NAVW17.00,NAVVK7.00	07-09-12	12:00:00	▼
Table	19	Cust. Invoice Disc.		NAVW17.00	07-09-12	12:00:00	▼
Table	21	Cust. Ledger Entry		NAVW17.00	07-09-12	12:00:00	▼

Add an extra field to the Customer table:

E..	Field No.	Field Name	Data Type	Length	Description
<input checked="" type="checkbox"/>	7188	Bill-To No. of Pstd. Shipments	Integer		
<input checked="" type="checkbox"/>	7189	Bill-To No. of Pstd. Invoices	Integer		
<input checked="" type="checkbox"/>	7190	Bill-To No. of Pstd. Return R.	Integer		
<input checked="" type="checkbox"/>	7191	Bill-To No. of Pstd. Cr. Memos	Integer		
<input checked="" type="checkbox"/>	7600	Base Calendar Code	Code	10	
<input checked="" type="checkbox"/>	7601	Copy Sell-to Addr. to Qte From	Option		
<input checked="" type="checkbox"/>	13600	EAN No.	Code	13	
<input checked="" type="checkbox"/>	13601	Account Code	Text	30	
<input checked="" type="checkbox"/>	13604	OIOUBL Profile Code	Code	10	
<input checked="" type="checkbox"/>	13605	OIOUBL Profile Code Required	Boolean		
<input checked="" type="checkbox"/>	50000	Shoe Size	Decimal		

Now the Customer table is changed. Going back to the VM Objects it is obvious that something has happened:

Type	ID	Name	Mod...	Com...	BLOB Size	Date	Time	Version List	Handle Date
Table	18	Customer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	92876	16-04-2016	13:56:05,...	NAVW17.00, NAVDK7.00	16-04-2016

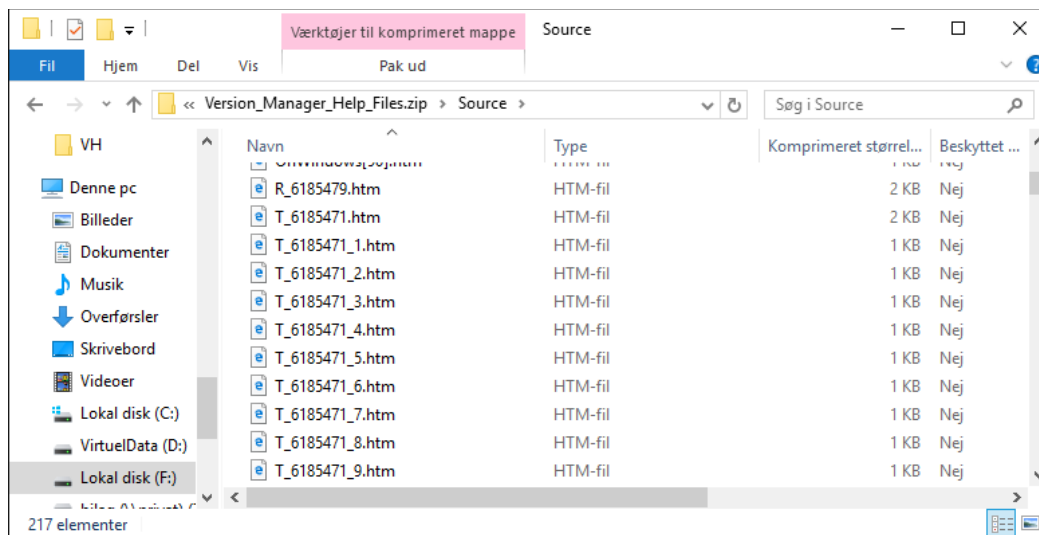
The Version History will tell the story:

Version No	Change Type	Restored From Version	Date	Time	Version List	Developer Comment	Name	Changed By	Handle Date	Handle
1	Base Version	0	23-03-2016	12:00:00	NAVW19.00.00.45480, NAVDK9.00.00.454...		Customer	WORKGROUP\DESKTOP-2AFPBL...	02-10-2016	16:53:52
2	Modify	0	02-10-2016	16:58:13	NAVW19.00.00.45480, NAVDK9.00.00.454...		Customer	MicrosoftAccount\peikb@hotmail...	02-10-2016	16:58:13

Install Version Manager Help files

In order to get online help in the newly installed Version Manager it is necessary to install the help files separately.

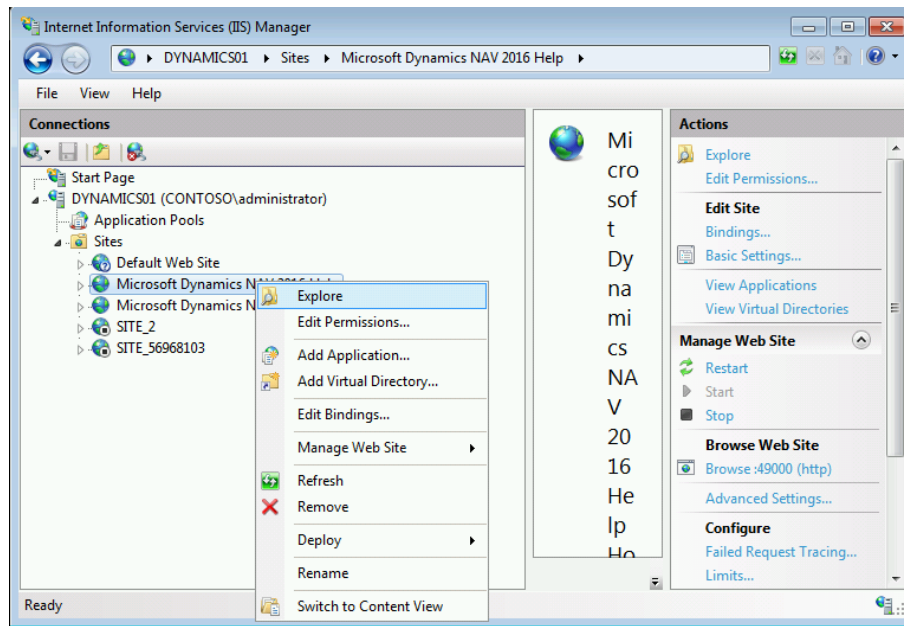
The help files can be found in the file Version_Manager_Help_Files.zip that can be downloaded from the Version Manager web page. The zip files consist of all the html files necessary to get on-line help in Version Manager.



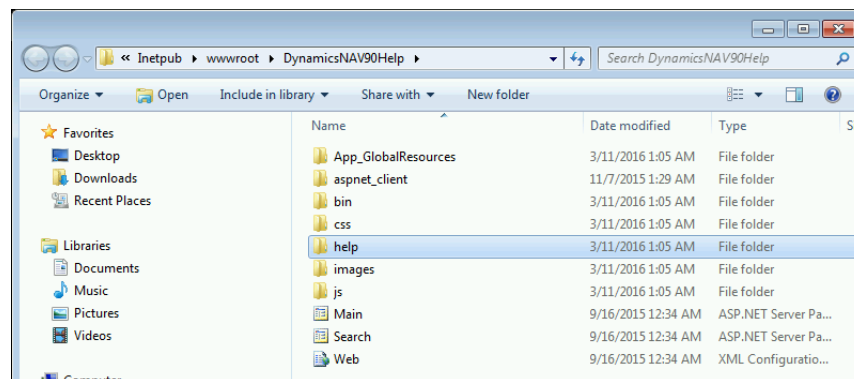
Next it is necessary to locate the help files for the installed Dynamics NAV help server. The files will often be installed in a folder in the IIS. An example could be:

C:\inetpub\wwwroot\DynamicsNAV90Help\help\en

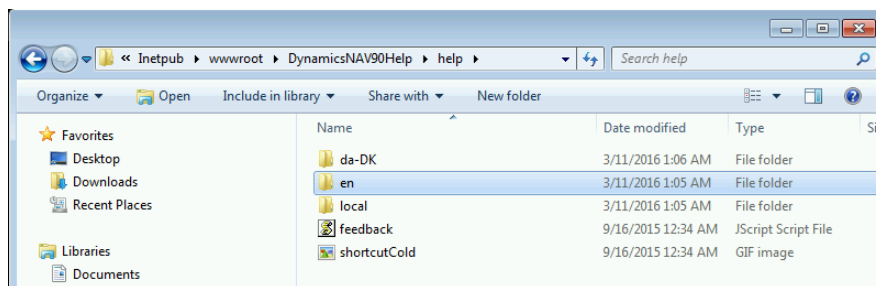
But the location can vary. The exact location can be found in the IIS.



This will show the source directory:



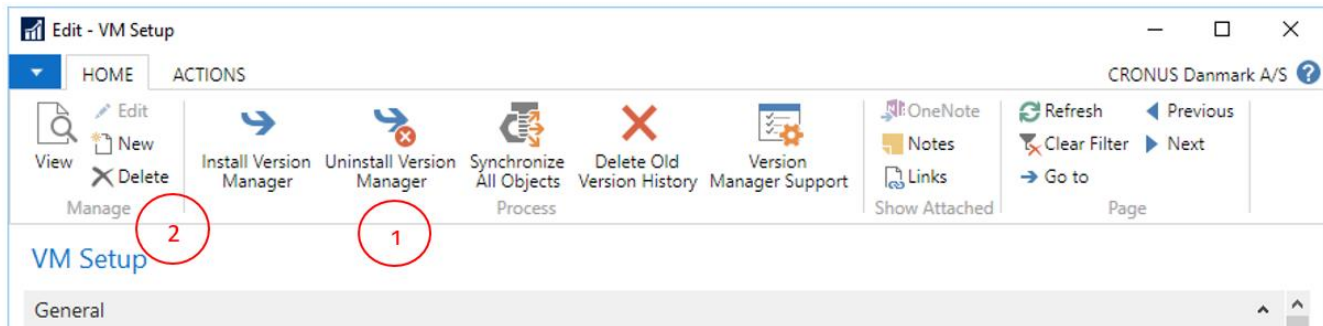
Click the Help directory:



Copy the content of the “source” directory of the zip file into the “en” directory of the iis help files.

Uninstall Version Manager

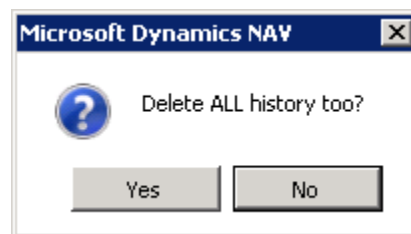
The uninstallation process can be performed from the setup page:



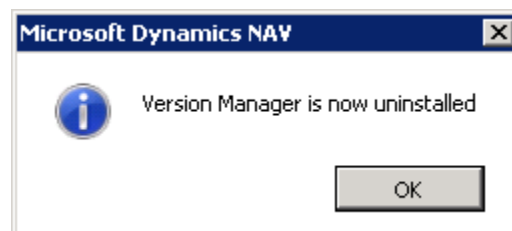
The uninstallation process is performed in five easy steps:

- 1) Uninstall Version Manager
- 2) Delete the Setup page
- 3) Delete all VM objects
- 4) Remove Version Manager from the IT Manager Role Center
- 5) Remove Version Manager from the MenuSuite

Uninstalling Version Manager will ask if you want to delete all history too:



Then a message that the Version Manager Scripts has been removed from the SQL server:

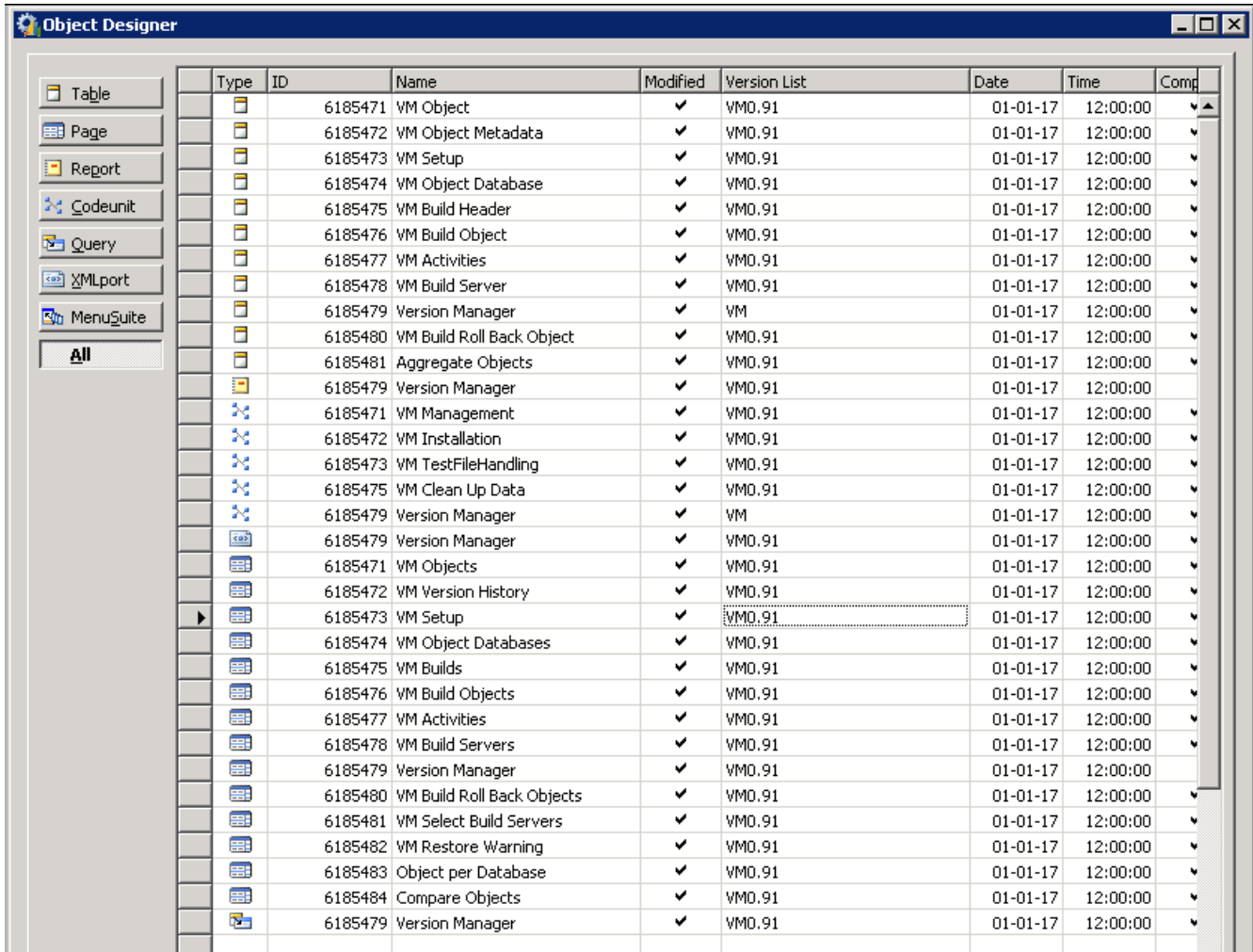


Next Deleting the setup will also remove all synchronized objects and setup.

The Objects must be deleted in the Development Environment.

Filter for ALL objects and Version list of *VM*.

Then Mark All and delete the objects:



Type	ID	Name	Modified	Version List	Date	Time	Comp
	6185471	VM Object	✓	VM0.91	01-01-17	12:00:00	✓
	6185472	VM Object Metadata	✓	VM0.91	01-01-17	12:00:00	✓
	6185473	VM Setup	✓	VM0.91	01-01-17	12:00:00	✓
	6185474	VM Object Database	✓	VM0.91	01-01-17	12:00:00	✓
	6185475	VM Build Header	✓	VM0.91	01-01-17	12:00:00	✓
	6185476	VM Build Object	✓	VM0.91	01-01-17	12:00:00	✓
	6185477	VM Activities	✓	VM0.91	01-01-17	12:00:00	✓
	6185478	VM Build Server	✓	VM0.91	01-01-17	12:00:00	✓
	6185479	Version Manager	✓	VM	01-01-17	12:00:00	✓
	6185480	VM Build Roll Back Object	✓	VM0.91	01-01-17	12:00:00	✓
	6185481	Aggregate Objects	✓	VM0.91	01-01-17	12:00:00	✓
	6185479	Version Manager	✓	VM0.91	01-01-17	12:00:00	✓
	6185471	VM Management	✓	VM0.91	01-01-17	12:00:00	✓
	6185472	VM Installation	✓	VM0.91	01-01-17	12:00:00	✓
	6185473	VM TestFileHandling	✓	VM0.91	01-01-17	12:00:00	✓
	6185475	VM Clean Up Data	✓	VM0.91	01-01-17	12:00:00	✓
	6185479	Version Manager	✓	VM	01-01-17	12:00:00	✓
	6185479	Version Manager	✓	VM0.91	01-01-17	12:00:00	✓
	6185471	VM Objects	✓	VM0.91	01-01-17	12:00:00	✓
	6185472	VM Version History	✓	VM0.91	01-01-17	12:00:00	✓
	6185473	VM Setup	✓	VM0.91	01-01-17	12:00:00	✓
	6185474	VM Object Databases	✓	VM0.91	01-01-17	12:00:00	✓
	6185475	VM Builds	✓	VM0.91	01-01-17	12:00:00	✓
	6185476	VM Build Objects	✓	VM0.91	01-01-17	12:00:00	✓
	6185477	VM Activities	✓	VM0.91	01-01-17	12:00:00	✓
	6185478	VM Build Servers	✓	VM0.91	01-01-17	12:00:00	✓
	6185479	Version Manager	✓	VM0.91	01-01-17	12:00:00	✓
	6185480	VM Build Roll Back Objects	✓	VM0.91	01-01-17	12:00:00	✓
	6185481	VM Select Build Servers	✓	VM0.91	01-01-17	12:00:00	✓
	6185482	VM Restore Warning	✓	VM0.91	01-01-17	12:00:00	✓
	6185483	Object per Database	✓	VM0.91	01-01-17	12:00:00	✓
	6185484	Compare Objects	✓	VM0.91	01-01-17	12:00:00	✓
	6185479	Version Manager	✓	VM0.91	01-01-17	12:00:00	✓

Lastly, the Activities page must be removed from the Role Center and all Objects must be removed from the MenuSuite.

Backup/Restore of Version Manager

Version manager can be backed up and restore with the same procedure as recommended with the standard Dynamics NAV solution, since the solution is stored inside the Microsoft Dynamics NAV SQL database. When backup is performed on the Microsoft Dynamics NAV database, there is also made backup of the Version Manager add-on.

[How Do I: Backup and Restore in a Multitenant Environment in Microsoft Dynamics NAV 2013 R2](#)

On restoring the Version Manager database or any of the involved databases Version Manager must be uninstalled and installed and all databases must be synchronized again to ensure that all the Version Manager functionality is functioning and consistent. On uninstalling Version Manager, it is important to answer **No** when asked to **Delete All History** as well.

Upgrading Version Manager to a newer Dynamics NAV version

Since Version Manager only affects Role Center objects, the upgrade process is fairly simple. The upgrade process is:

To prepare the upgrade:

- Uninstall Version Manager from the setup page.
- Answer No to the question if you want to **Delete All History**.

Perform all steps of the upgrade process according to the Microsoft Dynamics NAV guidelines.

After the upgrade:

- Implement Version Manager again in the IT-Manager Role Center and all other Role Centers that previously were added with the Version Manager Activities page as described in chapter: [Implement Version Manager in the IT-Manager Role Center](#).
- Install Version Manager from the Version Manager setup page as described in chapter: [General Setting up](#).
- Synchronize all databases

Upgrading Version Manager itself to a newer version

The development of Version Manager is a continuous process. The new versions will be advertised on the Version Manager support page: <https://versionmanager.mantishub.io> or on the version manager website: <http://versionmanager.dk>.

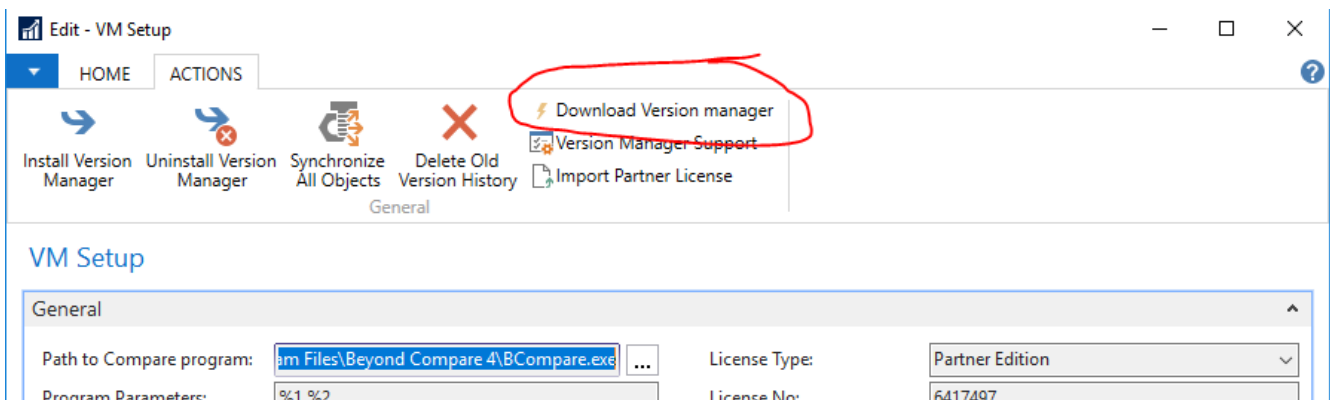
The upgrade consists of two parts:

- Upgrading the Version Manager objects
- Upgrading the Version Manager Script files

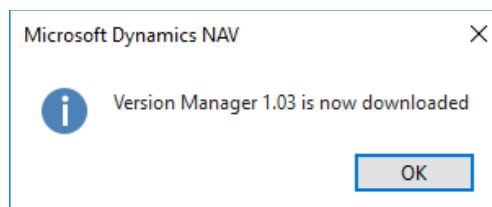
To upgrade the Version Manager objects, download version Manager objects from

- Dynamics NAV 2013 R2: http://ba-consult.dk/versionmanager/071/VM_71.zip
- Dynamics NAV 2015: http://ba-consult.dk/versionmanager/080/VM_80.zip
- Dynamics NAV 2016: http://ba-consult.dk/versionmanager/090/VM_90.zip
- Dynamics NAV 2017: http://ba-consult.dk/versionmanager/100/VM_100.zip

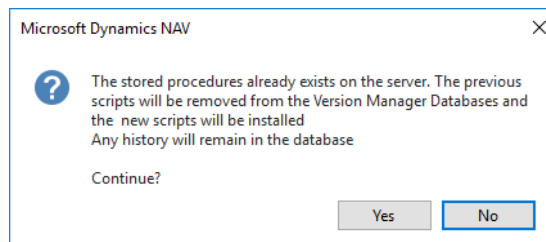
After importing the objects enter the setup page again



Click the Download Version Manager action.



When this message appears, the new scripts have been downloaded and Version Manager can be installed by clicking the Install Version Manager action. The following warning will appear:



After answering yes to this, Version Manager has been updated.

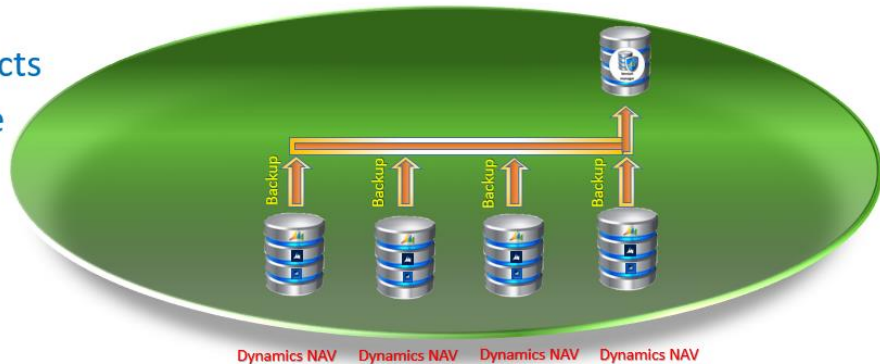
Lastly, all databases must be synchronized.

Installing Version Manager on multiple SQL Servers

If Version Manager and the monitored databases are situated on multiple SQL servers as described below, it is necessary to perform a number of extra tasks.

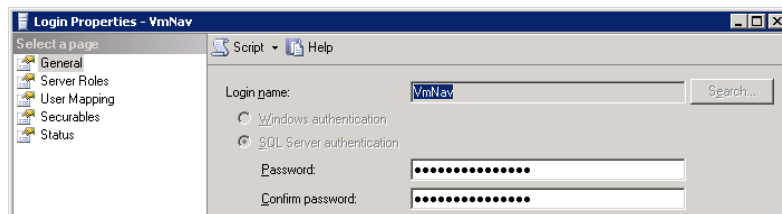
Option 3

Version Manager objects
in a separate database
Object databases
can be in the same
server or in different
servers

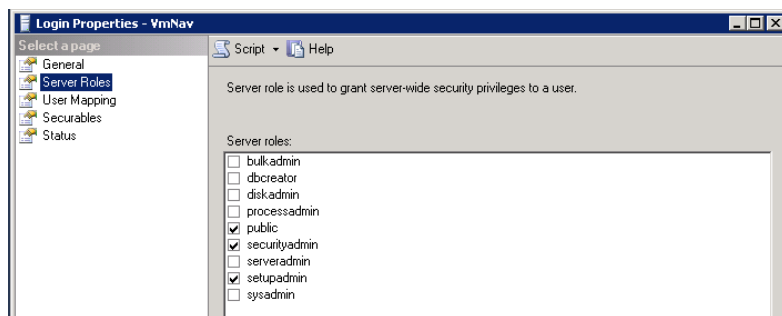


- 1) Firstly, SQL server login must be created to run Version Manager.

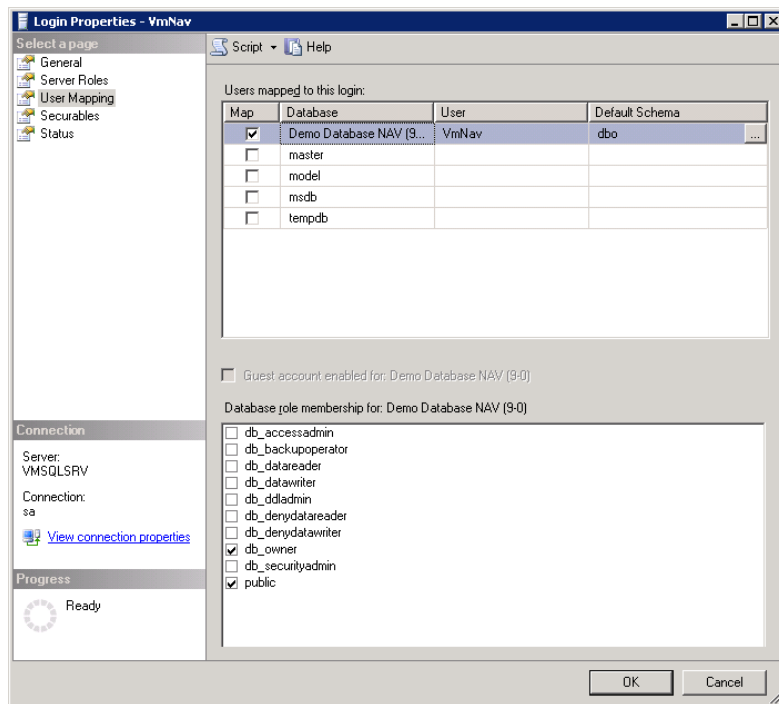
In this case a user named VmNav has been created using SQL authentication.



The Server roles must be set up like this:

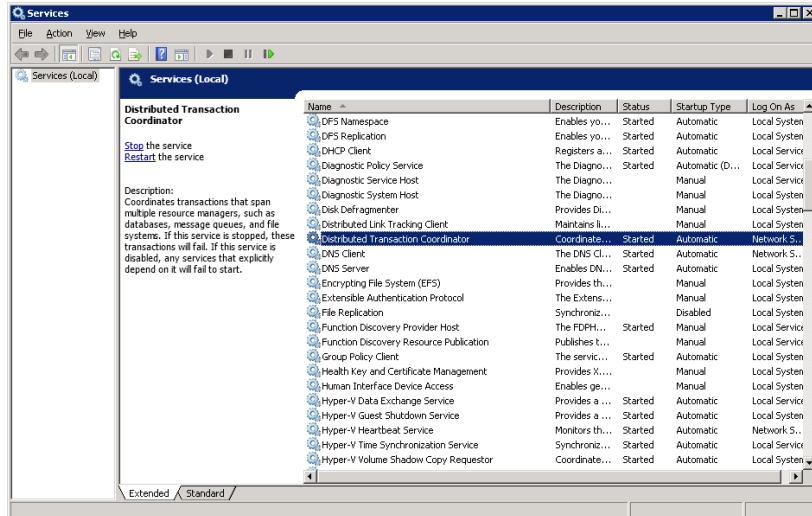


And the user mapping like this:

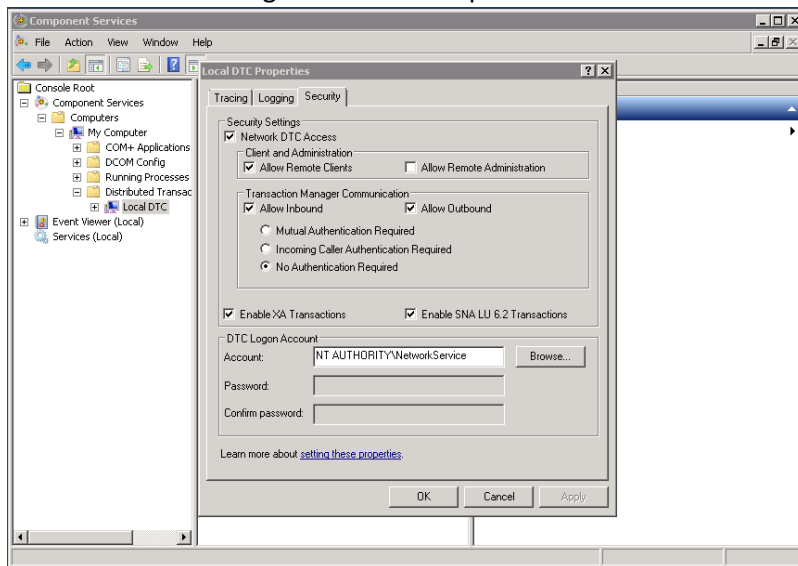


The user must exist like this on ALL SQL server involved.

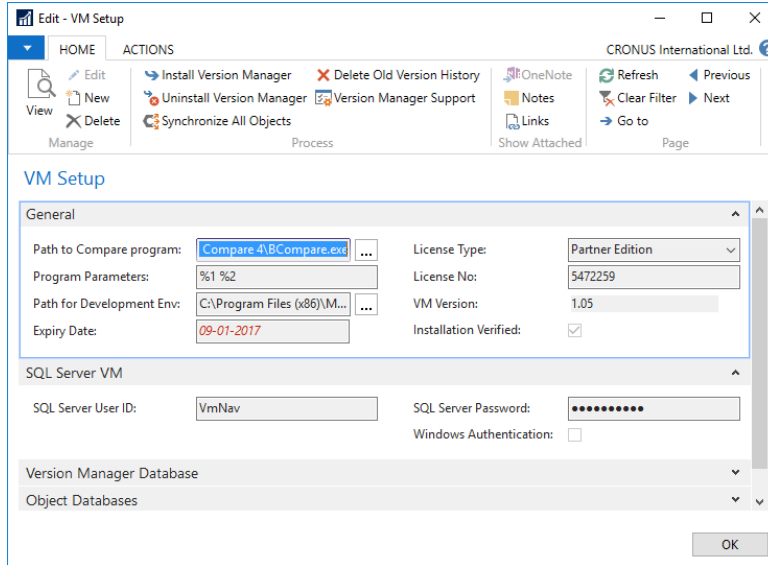
2) The Distributed Transaction Coordinator service must be activated and started:



3) MSDTC must be configured in the Component Services:



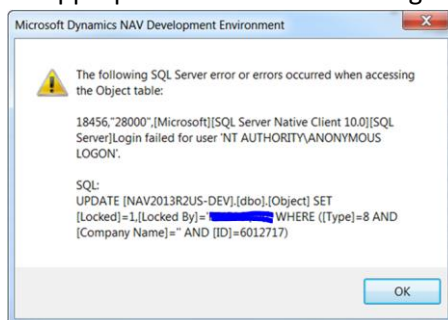
4) Version Manager must be set up to SQL authentication:



5) Usually the change does not require a restart of anything, but experience has shown that sometimes it is necessary to restart the MSDTC service. This can be done by these commands:

```
msdtc -uninstall  
msdtc -install
```

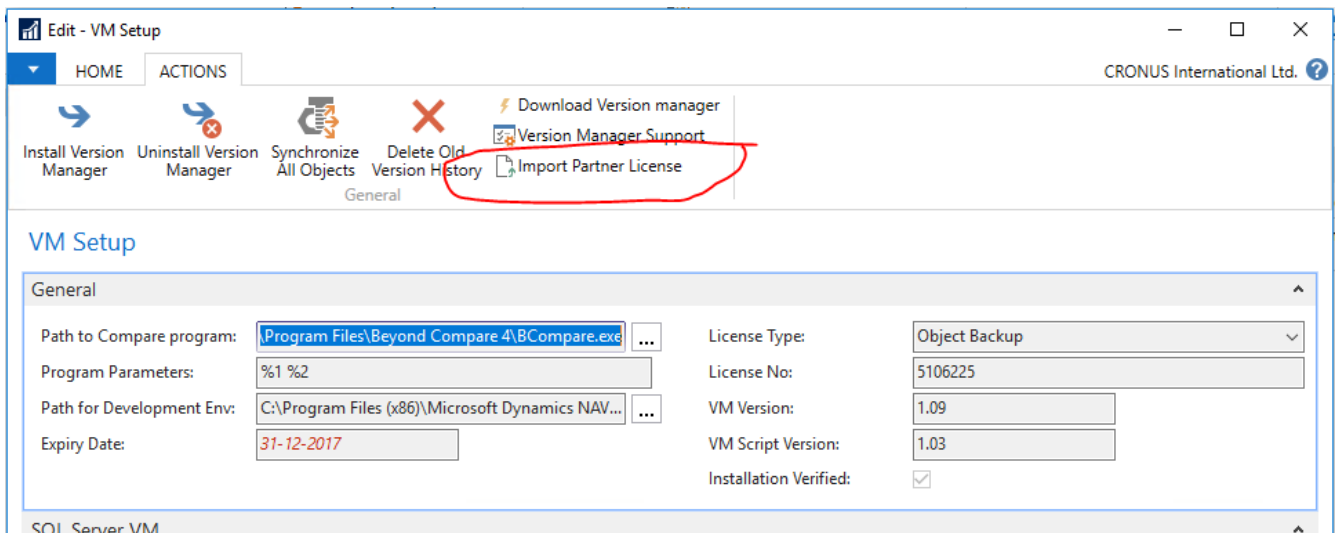
6) In very rare instances changing objects in one of the monitored databases gives an authentication error. In this case the SQL server instance must be restarted. If it is a live server, it will have to wait until an appropriate and Version Manager will have to be uninstalled until this can be done.



Enabling use of Partner License

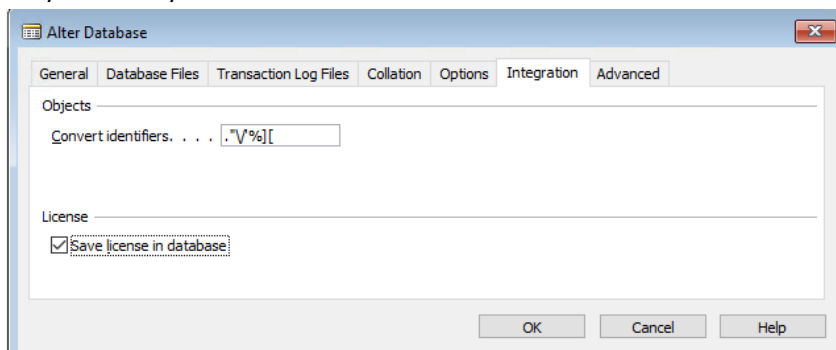
For the Version Manager users who do not have the Application Builder, the Solution Developer or a Developer License, it is possible to let a Dynamics NAV partner who also has purchased the full Version Manager Partner edition, utilize the full compare and export functionality.

This can be done by importing the partner license from the Version Manager setup page:



In order to facilitate this, it is necessary for one of two conditions to be met:

- The Dynamics NAV license must be stored in the database.
This can be defined in the development environment menu
File/Database/Alter



This is highly recommended and will not have consequences for any other databases.

- The other possibility is to grant the user running the Version Manager instance access to the table [ndo\$svrproperty] in the [master] database.
- This can be done with two simple SQL scripts:

```
USE [master]
```

```
GO
```

```
GRANT SELECT [dbo].[$ndo$svrproperty] TO {user id}
```

```
GO
```

and

```
USE [master]
```

```
GO
```

```
GRANT UPDATE [dbo].[$ndo$svrproperty] TO {user id}
```