

Version Manager

Protect your Dynamics NAV source code

Make it possible to detect changes made to the business logic or table structure in a Microsoft Dynamics NAV database.

During an installation phase, many different parties are involved in implementing a new Dynamics NAV solution:

- The NAV Partner, who will often have the main responsibility
- Independent Software Vendors delivering solutions for:
 - o EDI
 - o Payment Management
 - o Shop Floor Control
 - o Capacity planning
 - o Barcode scanners at the Warehouse
- Super users making simple changes to pages and Role Centers
- Hosting partners maintaining the solution

A backup made every night will solve the problem of recreating the original source code if an implemented build proves to be faulty and needs to be rolled back, but this will only work if there are no structural changes made to the database structure (new or changed fields or new tables). And it does not give the answer to: who-did-what-when.

Version Manager records all changes made to any object in a Microsoft Dynamics NAV database. It provides functionality for:

- Object history
- Object backup
- Object restore
- Object compare
- Export license file
- Export earlier versions of objects to a text file
- Managing builds and making object roll-out and roll-back package
- Managing objects in up to 10 databases

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Object Backup

Detect and back-up changes to the source code of multiple Microsoft Dynamics NAV databases into one database.

Monitor the changes directly on the IT Managers Role Center.

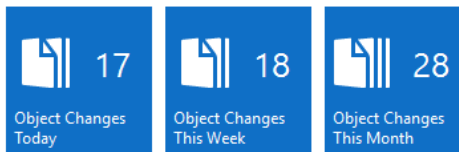
Automatically backup all changed objects.

Provide an audit trail of all changed objects for internal and external audit.

VM Version History

Version No	Change Type	Restored From Version	Date	Time	Version List	Developer Comment	Name	Changed By
1	Base Version		04-01-2016	13:06:28	DK1.00.RN1.00.WW1.00		Rental Management	SqlService
2	Modify		06-01-2016	23:36:17	DK1.00.RN1.00.WW1.00		Rental Management	DESKTOP-9MRMRK\peikb
3	Modify		06-01-2016	23:36:17	DK1.00.RN1.00.WW1.00		Rental Management...	DESKTOP-9MRMRK\peikb
4	Delete		06-01-2016	23:36:17	DK1.00.RN1.00.WW1.00		Rental Management...	DESKTOP-9MRMRK\peikb
5	Modify		06-01-2016	23:37:28	DK1.00.RN1.00.WW1.00		Rental Management	DESKTOP-9MRMRK\peikb
6	Modify		06-01-2016	23:43:17	DK1.00.RN1.00.WW1.00		Rental Management	DESKTOP-9MRMRK\peikb

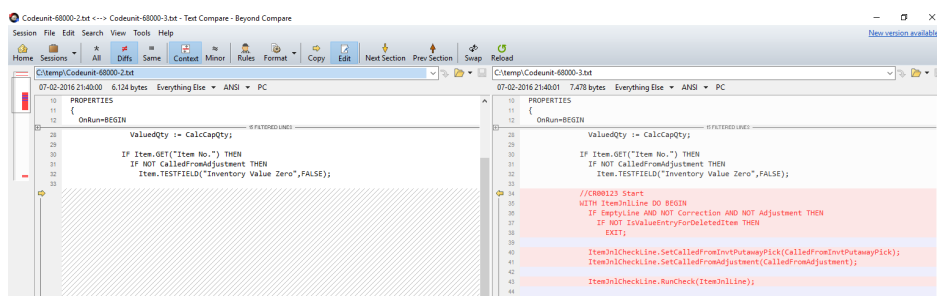
Version Manager Activities



VM Setup
VM Objects
VM Builds

Object Compare

Compare the source code of two different versions and highlight the changes directly.



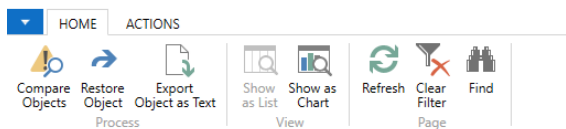
Restore Object

Restore an object from an earlier version

Export Object

Export an object from any version to a text file.

Edit - VM Version History - Codeunit - 68000



VM Version History

Version No	Change Type	Restored From Version	Date	Time	Version List
1	Insert		07-02-2016	21:35:06	
2	Modify		07-02-2016	21:36:04	
3	Modify		07-02-2016	21:39:11	



Build Management

Assemble objects in specific versions to a build.

The build can be Rolled-Out to different databases e.g. from the development database to one or more test servers or even to the live database.

A copy of the original object on the destination database will be saved for rollback purposes.

Edit - VM Builds

HOME

FUNCTIONS

New

View List

Edit List

Delete

Roll-Out Build

Roll-Back Objects

Lock Build

Re Open Build

Build Servers

Show as List

Show as Chart

OneNote

Notes

Links

Refresh

Clear Filter

Find

Manage

Process

View

Show Attached

Page

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VM Builds

Type to filter (F3)

Build No

No filters applied

Build No	Comment Text	Version List	Replace Version List	Replace Object Date	Replace Object Time	Blank Mo...	Responsible Person	Applying User ID	Status
100008	Rental Objects	RN1.01	RN1.01	01-01-2017	12:00:00	<input type="checkbox"/>	PBA	PBA	Roll Back
100009	Rental Objects	RN1.01	RN	01-01-2017	12:00:00	<input checked="" type="checkbox"/>	PBA	PBA	Locked

VM Build Roll Back Objects

Find Filter Clear Filter

Server Name	Server Instance	Database Name	Type	Company Name	ID	Name	Mo...	Co...	BLOB Size	Date	Time	Version
DESKTOP-9MRMRK		Demo Database NAV (8-0) Obj	Table		68000	Rental Header	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	780	21-01-2016	17:32:56	RN
DESKTOP-9MRMRK		Demo Database NAV (8-0) Obj	Table		68001	Rental Line	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	684	03-01-2016	14:59:50	RN
DESKTOP-9MRMRK		Demo Database NAV (8-0) Obj	Table		68003	Rental Entries	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	676	03-01-2016	15:00:27	RN
DESKTOP-9MRMRK		Demo Database NAV (8-0) Obj	Report		68000	Rental Order	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	69576	21-01-2016	17:33:11	RN
DESKTOP-9MRMRK		Demo Database NAV (8-0) Obj	Report		68001	Rental Invoice	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	69760	21-01-2016	17:33:16	RN
DESKTOP-9MRMRK		Demo Database NAV (8-0) Obj	Codeunit		68000	Rental Management	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	352	07-02-2016	21:35:06	RN

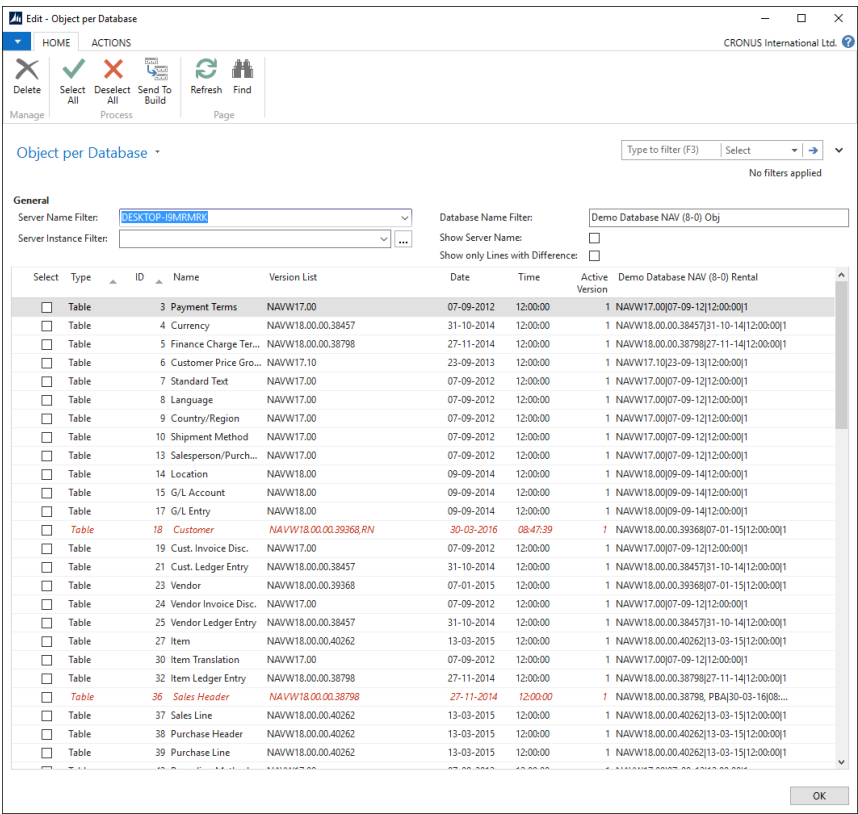
OK

Object Management

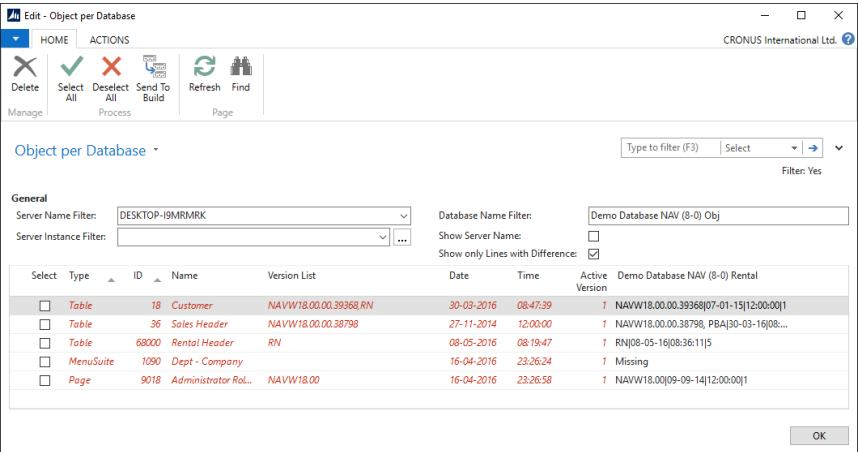
Compare the objects of up to ten databases.

All differences are highlighted to make it easier to spot.

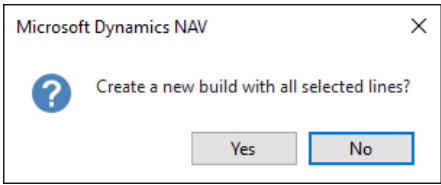
The date, time, version list and active object version are shown for each object.



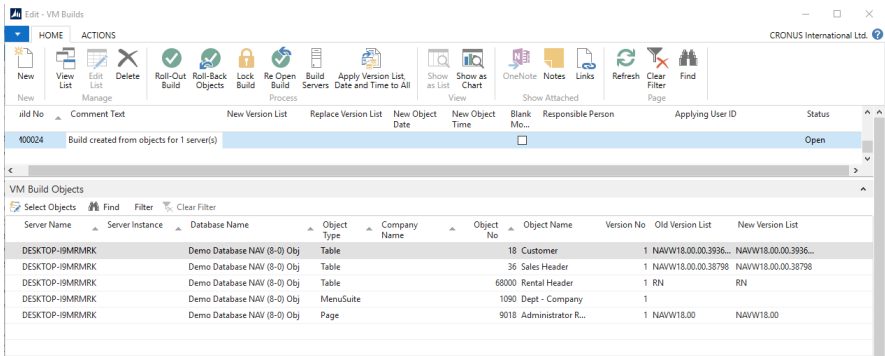
The “Show only lines with differences” function makes it easier to get the overview over all changes between the different databases.



If the databases need to be synchronized, a build can be made directly from the view.



Now the build can be finalized and distributed to the destination database.



Extensions

Extension

Logging

Keep track of all installed or uninstalled extensions in on-premise versions.












Supports booth extensions V. 1.0:

- Dynamics NAV 2016
- Dynamics NAV 2017

And extensions V.2.0:

- Dynamics NAV 2018
- Dynamics 365 Business Central

It has even been prepared to work with Extensions V. 3.0.

View - Extension Management			
HOME		ACTIONS	
			
View	Install	Configure	Refresh
			
	Uninstall	Download Source	Show as List
			
	Unpublish	Learn More	Show as Chart
Details	Manage		
			OneNote
			Show




Extension Management		
AdditionalInfo	Name	Version
Installed	Business Central Intelligent Cloud	v. 1.0.29777.0
Installed	Essential Business Headlines	v. 1.0.29777.0
Installed	Intelligent Cloud Base	v. 1.0.29777.0
Installed	Manufacturing Bonus	v. 1.0.0.0
Installed	PayPal Payments Standard	v. 2.0.29777.0
Installed	Sales and Inventory Forecast	v. 2.0.29777.0

Version Manager even enables blocking for users to install extensions to the Dynamics NAV or Business Central from the Version Manager Setup page.

Database							
Database Version	Install	Version Manager	Installation Verified	Objects Are Synchronized	Development Database	Locked for changes	Locked for Extensions
2018	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D365BC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Any apps (extensions) that are installed or uninstalled will appear on the Version Manager Activities page.

Nav App Changes


	2		2		56
Nav App Changes Today		Nav App Changes This Week		Nav App Changes This Month	

Nav App Changes Today

Clicking the **Nav App Changes Today** cue will show all changes made to apps on all the database under surveillance of Version Manager, registering:

- Change Type
- Machine ID it was changed from
- Change date
- Change time

Show results:

 Where Handle Date is 20-04-19

 Add Filter

Database Name	Version	Changed By	Change Type	Name
Demo Database NA...	4	WORKGROUP\DESKTOP-KJTE60T\$	Insert	Manufact...
Demo Database NA...	5	WORKGROUP\DESKTOP-KJTE60T\$	Delete	Manufact...

Editions

Freeware Edition

The Freeware Edition provides a 60 days trial-period to test if Version Manager is the product for you. There are a few limitations to the Freeware Edition:

- Works for 60 Days
- Can be installed in the database that it monitors only
- Can monitor one database only

After the trial period, all history is still in the database and will remain when upgrading to any other version.

Object Backup

The Object Backup Edition provides the basic functionality of Version Manager working with up to five databases:

- Monitor object changes
- Backup all versions of objects
- Restores the object to a previous state

This version can function in documenting changes to the source code as part of the audit trail.

The actual changes to the code or the code itself cannot be viewed with the Object Backup Edition.

Customer Edition

The Customer Edition provides all the basic functionality of the Object Backup Edition working with up to ten databases. In addition to that it provides:

- Viewing the C/AL code
- Comparing previous version of objects to view the actual code changes
- Export object to a text file
- Build functionality

This edition can only be purchased if the license already contains:

- Application Builder License (works with some limitations)
- Solution Developer License

Enterprise Edition

The Partner Edition provides all the functionality of the Object Backup Edition and Customer Edition in unlimited amount of databases.

The Partner Edition can be installed on multiple servers and locally on development machines without limitations, as long as the partner license is installed.

This edition can only be purchased if the license already contains:

- Partner Developer License

Pricing

Freeware Edition

1 database

Purchase

Purchase price

FREE

Object Backup

5 databases

Purchase

Purchase price

USD 1.150,00

+ 16% Annual upgrade subscription

USD 185,00

Lease

Annual subscription fee

USD 515,00

Customer Edition

Up to 10 databases

Purchase

Purchase price

USD 2.300,00

+ 16% Annual upgrade subscription

USD 370,00

Lease

Annual subscription fee

USD 1.035,00

Enterprise Edition

Unlimited databases

Purchase

Purchase price

USD 2.600,00

+ 16% Annual upgrade subscription

USD 740,00

Lease

Annual subscription fee

USD 2.070,00

Services

Installation

Installation assistance, hourly rate

EUR 145,00

Education

Two-hour On-Line Course

USD 250,00

All prices are per license excl. VAT