

# NAV 2-Controlware™

To: Users and Partners of 2-Control

From: 2-Control

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## 1 Update

With this memo we inform you about the release of the new 2-Controlware version 9.00. This release contains new functionality as well as bug fixes.

2-Controlware is available for versions 2013 R2, 2015, 2016, 2017, 2018 of Dynamics NAV and Business Central. Versions for NAV 4.xx, version 5.xx, NAV 2009, 2009 R2 and NAV 2013, are available on request. Version 3.xx is no longer supported.

## 2 Changes in this version

### 2.1 New features

2-Controlware 9.00 has a lot of new features and incremental improvements on the existing functionality. Furthermore several bugs are fixed. See below a description of the most important changes.

#### **General**

- 2-Controlware is now available for Business Central;

#### **Authorization Management**

- Improved the export to Excel functionality with more advanced options;
- Improved the performance of the synchronization routine;
- Increased length of organization role id (formerly user profile) and description to 50 characters.
- In the Authorization Management Setup:
  - The default NAV permission recorder can be displayed.
  - For new implementations in the synchronization type is Replace Permission Sets (instead of Add Permission Sets).

- Ex- and import of authorization management setup (organizational roles) are now exported as an xml-file.

#### **Authorization Management Pro**

- Copy authorization organization dimensions assigned from existing users.
- Processing authorization requests now displays a progress bar.

#### **Mandatory Fields**

- The value of a mandatory field can now be determined based upon table relations, e.g. posting groups on a purchase document must be the same as on the master data or only release a customer if the values for dimensions are set up.

## **2.2 Bugfixing**

We have solved some minor bugs in these modules:

### **1. General**

- a. Several translation errors in modules have been fixed.
- b. Related comments were not removed when removing setup.

### **2. Business Essentials**

- a. Indirect read permissions in the NAV license could produce an error in the 2C Event Subscriber codeunit in some scenario's.
- b. The 2C change log overview now can handle user id's with an @, e.g. [user@domain.com](mailto:user@domain.com).
- c. Several translation errors are corrected.

### **3. Authorization Management**

- a. The progress of Synchronize all (organization roles) is now visible.
- b. The list User Management is now editable, this way multiple users might be added at the same time.
- c. After synchronizing an organization role the organizational role is refreshed so the correct role is displayed.
- d. Release permission sets now works only for the selected lines.
- e. When deleting an organizational role, it is also removed from the organization dimensions in Authorization Management Pro.
- f. User Authorization is renamed to Users (2C).
- g. The file selector for ex- and import is now predefined for xml-files.
- h. Pasted lines of permissions were not formatted correctly.

### **4. Authorization Management Pro**

- a. When creating a master template the property was configured incorrectly.
- b. Opening a master template from a relevant authorization template no longer gives an error.
- c. For new authorization requests the module tries to delete any related, already existing lines. This required direct permissions, now indirect permissions are sufficient.
- d. Employee Authorization Field Number can now be selected on master templates as a value source.
- e. Processing an authorization request now opens the correct dialog window when started on the request card.
- f. Authorization requests with multiple approvers generated only one set of authorization entries when the first approver approves the request. Now the module skips creating entries if these are already present.
- g. Pre- and post actions are processed correctly when processing authorization requests.
- h. When processing requests, the module now checks correctly on both the fields "No. of Starting Date Lines" and "No. of Ending Date Lines".
- i. When multiple requests are processed the module now works correctly in the loop.
- j. The NAV-client no longer crashes when you process an authorization request for a company with an ampersand (&) in the name.

- k. Changing the lines on an authorization request is no longer possible if it is released.
  - l. Selecting an object when adding a batch action now gives the object list instead of an error.
  - m. The Employee Authorization Line Field No. is validated correctly on an authorization template.
  - n. The property PopulateAllFields is now false on pages:
    - i. 2C Auth. Request List (11112116)
    - ii. 2C Auth. Request Header (11112108)
    - iii. 2C Auth. Request Subform (11112109)
    - iv. 2C Empl. Authorization List (11112145)
    - v. 2C Employee Auth. Header (11112135)
    - vi. 2C Employee Auth. Subform (11112136)
    - vii. 2C Proc. Auth. Request List (11112142)
    - viii. 2C Proc. Auth. Request Header (11112143)
    - ix. 2C Auth. Request Subform (11112109)
  - o. The length of several fields is extended to comply with default NAV, changes in our other modules and functionality of partners.
  - p. Free fields might be hidden if not used on header and line.
  - q. Removed the field Applicable on the authorization request card.
  - r. Creation of a company filter for processing authorization requests works in a smarter way.
  - s. Improved validation of data to be processed in an authorization request.
  - t. Authorization requests could be released with an end date before the start date.
  - u. Flexible fields are now ex- and imported correctly.
- 5. Field- and dataset security**
- a. Removing a field security item required two confirmations, now only one.
  - b. There were multiple functions to retrieve option values (e.g. document- and line type for table 36..39). This is now done by one function for all our modules.
  - c. A user filter is no longer limited to filter 1 of dataset security, filter 2 is also usable now.
  - d. An export of setup of field- and dataset security did not contain any comments made.
- 6. Mandatory Fields**
- a. Once a permission set was assigned to a mandatory field, you were not allowed to empty the field (for assignation of the setup to all users irrespective of the permission sets they hold).
  - b. There were multiple functions to retrieve option values (e.g. document- and line type for table 36..39). This is now done by one function for all our modules.
  - c. Importing mandatory fields setup now correctly validates the field Not Blank.
  - d. Improved validation and storage of boolean validation values.
- 7. Authorization Monitoring**
- a. The length of several fields is extended to comply with changes in our other modules.
  - b. The check whether a user account is NAV Enabled was not displayed correct for analysis conflicts.
  - c. Improved use of batches for authorization analyses:
    - i. Calculating multiple analyses permissions or conflicts locked the table Analysis Permission.
    - ii. Before starting an new analysis we remove any analysis lines related to the batch used. Now we take the batch into account.
    - iii. Changing the batch used did not update the page for analysis conflicts.
    - iv. The competence filter was not stored correctly in the batch for the pages Analysis Permission and Analysis Conflict.

- v. The batch used for calculating an analysis conflicts is now passed on correctly to the function 2C Analysis Permission.
- d. A performance improvement for analysis conflicts for multiple companies.
- e. Conflict analysis did not correctly process assigned authorizations with an empty vs. a filled field Company.
- f. Drill down on the page analysis permissions and analysis conflicts can now handle setup with an ampersand (&) in the name.
- g. Bug with ampersand in company name no longer results in incorrect calculation of analyses permission and conflicts.
- h. Setup of field and dataset security now displays correctly in results of an analysis, irrespective of the permissions assigned (user with SUPER and a second permission set with field- or dataset security did not display and additional setup, while it is active for this user).
- i. When evaluations are registered automatically and the user did not have the permission set designated in the Authorization Monitoring Setup, an error was produced. Now the application does not register anything, nor give an error.

#### 8. Inventory Reconciliation

- a. When building the reconciliation the module locked value- and G/L-entries tables, but this was not essential for the module operation.

#### 9. Cost Allocation

- a. Newly created cost allocation invoices were not processed correctly in some scenario's.

### 3 Installation instructions

#### 3.1 Requirements

For a new installation see the installation instructions paragraph 3.2.

To perform an update installation from a previous 2-Controlware (= 2CW) version see the table below. The fob's of version 4.01.01(VM) is available upon request.

To version	4.01.01	4.02.xx	5.xx, 6.xx, 7.00 and 8.00	9.00 = latest release
3.*	Support consultancy needed	Support consultancy needed	Support consultancy needed	Support consultancy needed
4.0 or 4.0.10	See 4.01.01VM Release Letter: <i>Perform Pre- and Post-Update function</i>	First upgrade to 4.01.01	First upgrade to 4.01.01	First upgrade to 4.01.01
4.01	Empty and delete table 11112028 2C Authorization Evaluation and import objects of version 4.01.01	Empty and delete table 11112028 2C Authorization Evaluation and import objects of version 4.02.xx	Empty and delete table 11112028 2C Authorization Evaluation and import objects of version 5.xx, 6.00 or 7.00	Empty and delete table 11112028 2C Authorization Evaluation and import objects of version 9.00
4.01.01	-	Import objects of version 4.02.xx	Import objects of version 5.xx, 6.00 or 7.00	Import objects of version 9.00
4.02.xx	-	-	Import objects of version 5.xx, 6.00 or 7.00	Import objects of version 9.00
5.xx, 6.xx and 7.xx	-	-	-	Import objects of version 9.00

#### 3.2 Installation instructions

1. Import (**with replace all**) and **compile** version 2-Controlware 8.00 ("NAVW1x.xx,2CW9.00.fob").

- For NAV 2016 and up, the customization of codeunits 1, 40 and 423 needs to be removed. If you have no other add-ons, you can – after consulting your NAV-partner – replace these codeunits with the default NAV objects.

### Important!

Please be sure to Replace All existing objects. Default action for some objects is *Skip*.

### 3.3 Impact on Permissions

Besides the basic read and execute permissions for the objects, no modifications for all users are necessary.

Furthermore, any new objects (see below) need to be authorized separately if not authorized through a line with 0.

## 4 Impact on online manual

The online manual for version 8.00 will be available on our website soon. See <http://help.2-control.nl/2-controlware> .

## 5 Implementation

### 5.1 Fob

The 8.00 update-package consists of one fob-file:

- NAVW1x.xx,2CW9.00.fob:** the objects can be identified by version number 2CW9.00.

### 5.2 Dynamics NAV version

From 2-Controlware version 8.00 on, 2-Controlware is available for versions 2013 R2, 2015, 2016, 2017, 2018 of Dynamics NAV and Business Central. Versions for 4.xx, 5.xx, 2009, 2009 R2 and 2013 are available on request and version 3.xx is no longer supported.

### 5.3 Objects

The following objects are new or modified compared to 2CW8.00.

Object Type	Object-ID	Object Name	Version List	New object
Table	11111978	2C User Role per User Profile	No	
Table	11111979	2C User Profile	No	
Table	11111980	2C Authorization Mgt. Setup	No	
Table	11111989	2C Analysis Conflict	No	
Table	11111992	2C Reconciliation View	No	
Table	11112012	2C FS and DS Setup	No	
Table	11112015	2C Secured Table	No	
Table	11112019	2C Secured Dataset	No	
Table	11112027	2C Comment Line	No	
Table	11112032	2C Secured Field Per Source	No	
Table	11112033	2C Secured Dataset Per Source	No	
Table	11112036	2C Permission	No	
Table	11112038	2C Company Group	No	
Table	11112040	2C User Role	No	
Table	11112042	2C Authorization Call	No	
Table	11112046	2C Mandatory Field Per Source	No	
Table	11112048	2C Mandatory Table	No	
Table	11112049	2C Mandatory Field	No	
Table	11112054	2C Form per Table	No	
Table	11112063	2C Perm. Header	No	
Table	11112064	2C Perm. Line	No	
Table	11112067	2C Authorization Mgt Pro Setup	No	
Table	11112071	2C Org. Dim. Value Header	No	
Table	11112073	2C Auth. Request Header	No	
Table	11112074	2C Auth. Request Line	No	
Table	11112075	2C Employee Auth. Header	No	

Object Type	Object-ID	Object Name	Version List	New object
Table	11112076	2C Employee Auth. Line	No	
Table	11112077	2C Auth. Template Header	No	
Table	11112081	2C Batch Action	No	
Table	11112086	2C Compliance Setup	No	
Table	11112089	2C Table Relation	No	x
Table	11112090	2C Field Relation	No	x
Table	11112091	2C Condition	No	x
Report	11111977	2C User per Org. Role	No	
Report	11111978	2C Perm. Set per Org. Role	No	
Report	11111979	2C Permission Set per User	No	
Report	11111980	2C Analysis Permissions	No	
Report	11111981	2C Analysis Conflicts	No	
Report	11111982	2C Comp. per Org. Role	No	
Report	11111983	2C Perm. per Perm. Set	No	
Report	11111984	2C Permissions per User	No	
Report	11111985	2C Perm. per Org. Role	No	
Report	11111986	2C Check Compl Org Roles	No	
Report	11111987	2C Analysis Inventory Accounts	No	
Report	11111988	2C Analysis Applied Accounts	No	
Report	11111992	2C Export AM to Excel	No	
Report	11111994	2C Copy Auth. from User	No	x
Codeunit	11111977	2C Authorization Synchr.	No	
Codeunit	11111978	2C Analysis Permissions	No	
Codeunit	11111979	2C Analysis Conflicts	No	
Codeunit	11111981	2C Create VRE	No	
Codeunit	11111983	2C Create GRE	No	
Codeunit	11111991	2C Dataset Security	No	
Codeunit	11111992	2C Trigger Management	No	
Codeunit	11111993	2C Field Security	No	
Codeunit	11111994	2C Form Security	No	
Codeunit	11111996	2C 2-Controlware Management	No	
Codeunit	11111997	2C User Management	No	
Codeunit	11111999	2C Calc. Auth. Analysis Detail	No	
Codeunit	11112001	2C Build Field Sec Per Source	No	
Codeunit	11112002	2C Build Dataset Per Source	No	
Codeunit	11112004	2C AM Management	No	
Codeunit	11112005	2C Change Log Overview Mgt	No	
Codeunit	11112009	2C Mandatory Field Management	No	
Codeunit	11112010	2C Build Mandatory Fields	No	
Codeunit	11112011	2C Field Security Management	No	
Codeunit	11112016	2C Permanence Management	No	
Codeunit	11112017	2C Auth. Template Management	No	
Codeunit	11112018	2C Auth. Request Management	No	
Codeunit	11112021	2C Event Subscribers	No	
Codeunit	11112022	ABWebService	No	
XMLPort	11111978	2C Auth Requests Import	No	
XMLPort	11111980	2C Exp/Imp Perm Set/Permission	No	
XMLPort	11111983	2C Exp/Imp AS Settings	No	
XMLPort	11111984	2C Exp/Imp FS/DS Settings	No	
XMLPort	11111985	2C Exp/Imp AM Settings	No	
XMLPort	11111986	2C Exp/Imp CM Settings	No	
XMLPort	11111987	2C Exp/Imp Auth. Actions	No	
XMLPort	11111989	2C Exp/Imp Org. Structure	No	
XMLPort	11111990	2C Exp/Imp MF Settings	No	
MenuSuite	1052	Dept - 2C 2-Controlware	No	
Page	11111977	2C Authorization Mgt Setup	No	
Page	11111978	2C Organizational Role List	No	
Page	11111979	2C User Roles per Profile Subf	No	
Page	11111981	2C User Roles	No	
Page	11111982	2C Organizational Role	No	
Page	11111983	2C User Card (2C)	No	
Page	11111984	2C Skipped Value Entry Card	No	
Page	11111986	2C Reconciliation Setup	No	
Page	11111988	2C User List	No	
Page	11111990	2C Assigned Windows Roles Subf	No	
Page	11111991	2C Permission	No	
Page	11111993	2C Permissions (All objects)	No	
Page	11111994	2C Processes	No	

Object Type	Object-ID	Object Name	Version List	New object
Page	11111996	2C Standard Competence List	No	
Page	11111997	2C Standard Competence	No	
Page	11112001	2C Conflict Matrix	No	
Page	11112002	2C Dataset Security Per Source	No	
Page	11112003	2C Analysis Permissions	No	
Page	11112004	2C Analysis Conflicts	No	
Page	11112007	2C Organization Types	No	
Page	11112010	2C Reconciliation View	No	
Page	11112012	2C Reconciliation View List	No	
Page	11112013	2C Reasons Skip G/L Entry	No	
Page	11112016	2C Analysis Inv.Acc by Period	No	
Page	11112018	2C Analysis Inv. Account Card	No	
Page	11112019	2C Analysis App Acc by Period	No	
Page	11112021	2C Analysis Inv.Acc. by IPG	No	
Page	11112022	2C Analysis App Account Card	No	
Page	11112023	2C Analysis Inv Acc IPG Card	No	
Page	11112024	2C User Role Setup	No	
Page	11112025	2C Analysis Prod. Var. by IPG	No	
Page	11112026	2C Analysis Appl. Acc by GPG	No	
Page	11112027	2C Analysis App Acc GPG Card	No	
Page	11112028	2C Analysis G/L Entries	No	
Page	11112032	2C Analysis Invt. Accounts	No	
Page	11112033	2C Analysis Applied Accounts	No	
Page	11112034	2C Reasons Skip Value Entry	No	
Page	11112037	2C FS and DS Security Setup	No	
Page	11112038	2C Customized Windows	No	
Page	11112039	2C Field Security	No	
Page	11112042	2C Table Categories	No	
Page	11112043	2C Perm. Sets per Sec. Field	No	
Page	11112044	2C Secured Field List	No	
Page	11112045	2C Dataset Security	No	
Page	11112047	2C Perm. Sets per Sec. Dataset	No	
Page	11112048	2C Secured Dataset List	No	
Page	11112049	2C User Filter List	No	
Page	11112050	2C User Filter	No	
Page	11112052	2C Windows Group Members	No	
Page	11112053	2C AM Setup	No	
Page	11112054	2C Auth. Analysis Details	No	
Page	11112058	2C Field Security Per Source	No	
Page	11112059	2C Sec. Field Per Source Sub	No	
Page	11112063	2C Linked Windows Logins	No	
Page	11112064	2C Company Groups	No	
Page	11112072	2C Mandatory Fields	No	
Page	11112073	2C Mandatory Fields Subform	No	
Page	11112074	2C Mandatory Field Setup	No	
Page	11112075	2C Mand. Fields Check Overview	No	
Page	11112076	2C Mandatory Fields List	No	
Page	11112078	2C Permanence Setup	No	
Page	11112079	2C Permanence Template	No	
Page	11112081	2C Permanence Card	No	
Page	11112083	2C Cost Allocation Dashboard	No	
Page	11112085	2C Permanence Template List	No	
Page	11112086	2C Posted Permanence	No	
Page	11112088	2C Permanence List	No	
Page	11112089	2C Posted Perm. List	No	
Page	11112090	2C Org. Dimensions	No	
Page	11112092	2C Org. Dim. Combinations	No	
Page	11112093	2C Org. Structure	No	
Page	11112094	2C Org. Dim. Value Header	No	
Page	11112095	2C Org. Dim. Value Subform	No	
Page	11112097	2C Auth. Template List	No	
Page	11112098	2C Auth. Template Header	No	
Page	11112105	2C E-Mail Input	No	
Page	11112108	2C Auth. Request Header	No	
Page	11112109	2C Auth. Request Subform	No	
Page	11112110	2C Authorization Mgt Pro Setup	No	
Page	11112111	2C Field Security List	No	
Page	11112112	2C Dataset Security List	No	

Object Type	Object-ID	Object Name	Version List	New object
Page	11112116	2C Auth. Request List	No	
Page	11112118	2C Master Auth. Tmpl. Header	No	
Page	11112119	2C Master Auth. Tmpl. Subform	No	
Page	11112120	2C Master Auth. Template List	No	
Page	11112124	2C Conflicting Competence Card	No	
Page	11112125	2C Authorization Call Card	No	
Page	11112127	2C Authorization Call List	No	
Page	11112128	2C Closed Auth. Call Card	No	
Page	11112129	2C Auth. Call Setup	No	
Page	11112132	2C E-Mail Template	No	
Page	11112133	2C Closed Auth. Call List	No	
Page	11112135	2C Employee Auth. Header	No	
Page	11112137	2C Key Definition List	No	
Page	11112138	2C Key Definition	No	
Page	11112140	2C Batch Action List	No	
Page	11112142	2C Proc. Auth. Request List	No	
Page	11112143	2C Proc. Auth. Request Header	No	
Page	11112144	2C Pre and Post Actions	No	
Page	11112145	2C Empl. Authorization List	No	
Page	11112146	2C About Compliance	No	
Page	11112147	2C Compliance Setup	No	
Page	11112148	2C Edit Org. Structure	No	
Page	11112149	2C Object Explorer	No	
Page	11112151	2C Std. Comp. per Object	No	
Page	11112152	2C Proc. Auth. Req. Lines List	No	
Page	11112153	2C Auth. Analysis Batches	No	
Page	11112154	2C Table Relation Card	No	x
Page	11112155	2C Table Relation Subf	No	x
Page	11112156	2C Table Relation List	No	x
Page	11112157	2C Conditions	No	x
Page	11112158	2C Tenant Permission	No	x