Navision Object Checkout

Version 0.8

Summary

Navision Object Checkout (NOC) is a utility meant to help Navision developers concurrently working on the same database. It is a basic version control system, allowing one developer to "checkout" the Navision object so that it's not available for modifications to other developers until the first one has checked it back in again. Additional features include a history of all object changes and a possibility to revert to a historical object version.

The utility is intended for convenience purposes only, i.e. it is not designed to enforce the process and can be bypassed, should the need arise because of administration or other reasons.

Setup

1. Requirements

NOC utility functionality is only possible with MS SQL server based Navision database.
The NOC utility was tested with MS SQL server 2005 and Navision client application versions 3.70, 4.00 and 4.03. Other Navision client versions should work, but were not tested.

2. Installation

2.1. Import NOC utility object file *"Navision_Checkout_vXX.fob"* (where XX is the NOC utility version) to the Navision database.
2.2. Run the SQL script to install the SQL side part of the utility. Before running, it needs to be updated with the correct database reference. The script is provided in a separate text file *"Navision_Checkout_vXX.sql"* (where XX is the NOC utility version). Near the top of the script, there are two lines:

```
--Update the next line with the Navision DB name
USE [<DB NAME>];
```

In the above example the *<DB NAME>* must be replaced with the actual Navision DB name the NOC utility is being installed for.
Note: the script creates two triggers on the "Object" table – "NOC_INSERT" and "NOC_UPDATE". Standard Navision SQL database doesn't have any triggers on the "Object" table, but you should be aware of this if your Navision DB is modified at SQL level.

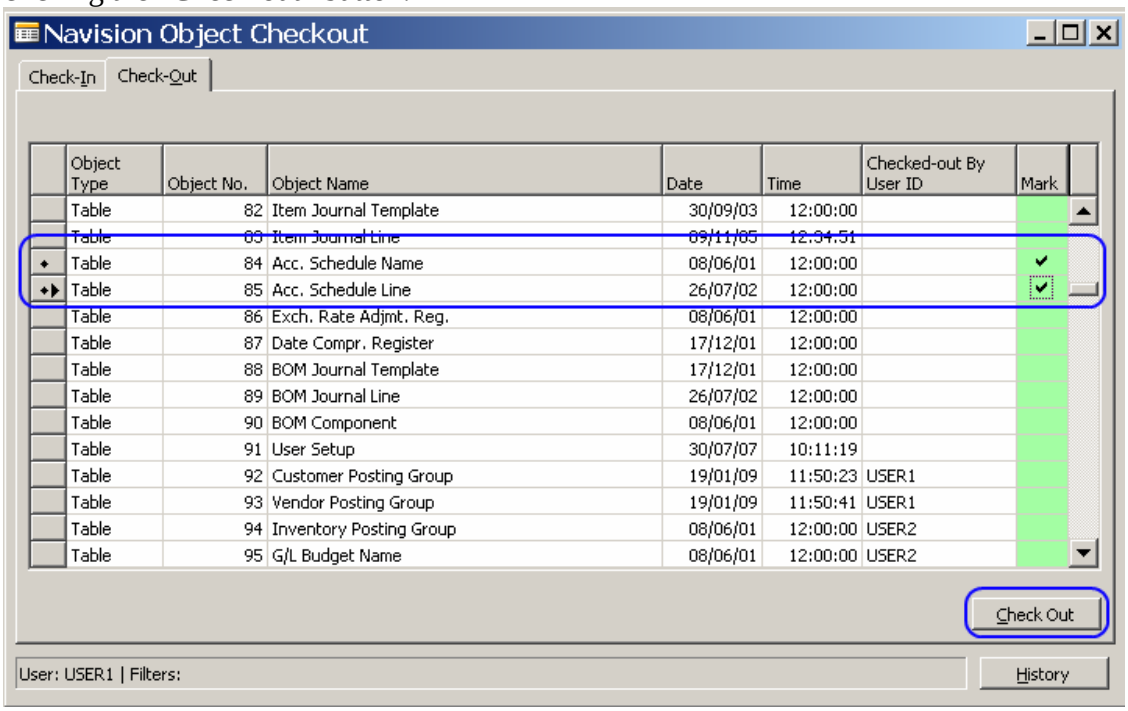
Use

1. Checking-out the Objects

An object can be checked-out either automatically or manually. Objects, that are currently not checked-out, will be automatically checked-out when:

- A user modifies and saves an object;
- A user compiles or imports an object.

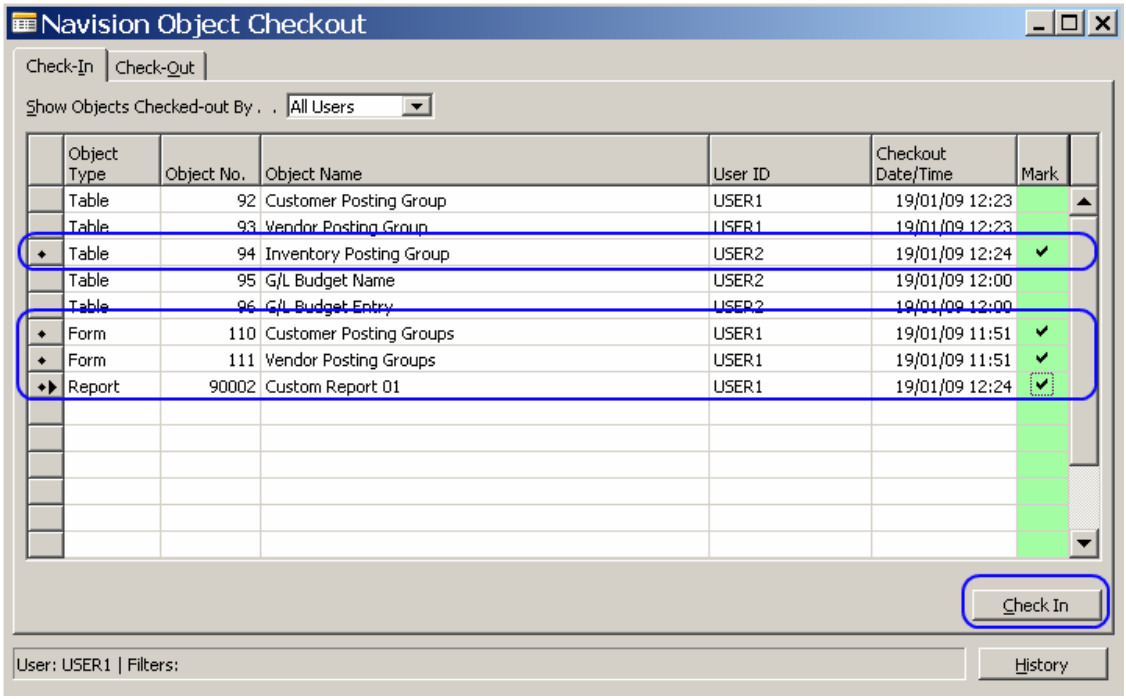
Manual check-out can be performed on the "Check-out" tab of the main NOC form, by marking the objects in the list using Ctrl+F1 or ticking the "Mark" column and then clicking the "Check-out" button.



2. Checking-in the Objects

Objects can be checked-in from the "Check-in" tab of the main NOC form. Check-in is performed by marking the objects in the list using Ctrl+F1 or ticking the "Mark" column and then clicking the "Check-in" button.

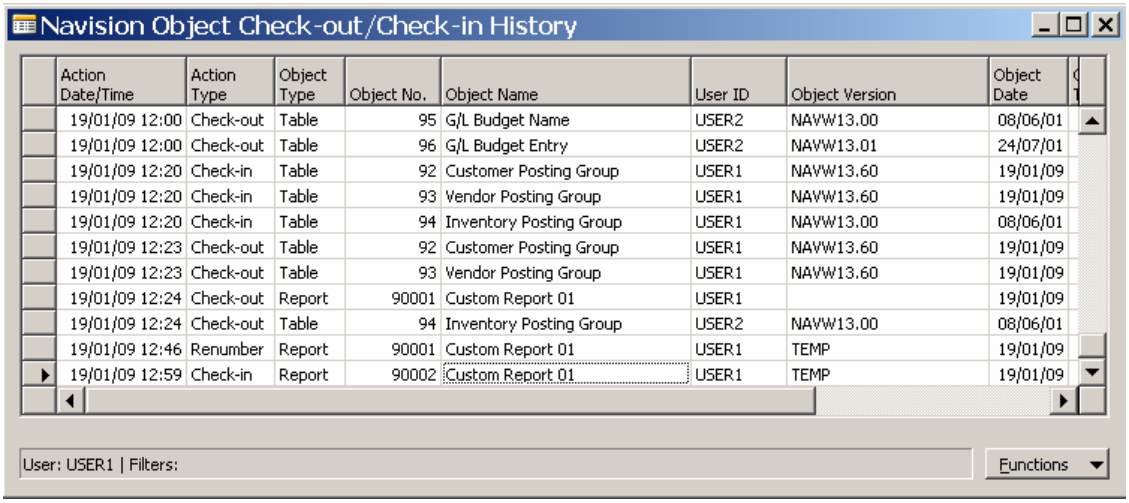
Note: users can only check-in objects that were checked-out by them.



3. History

There is an action history form accessible from the main form through the "History" button. All object check-outs and check-ins are that were performed can be reviewed here.

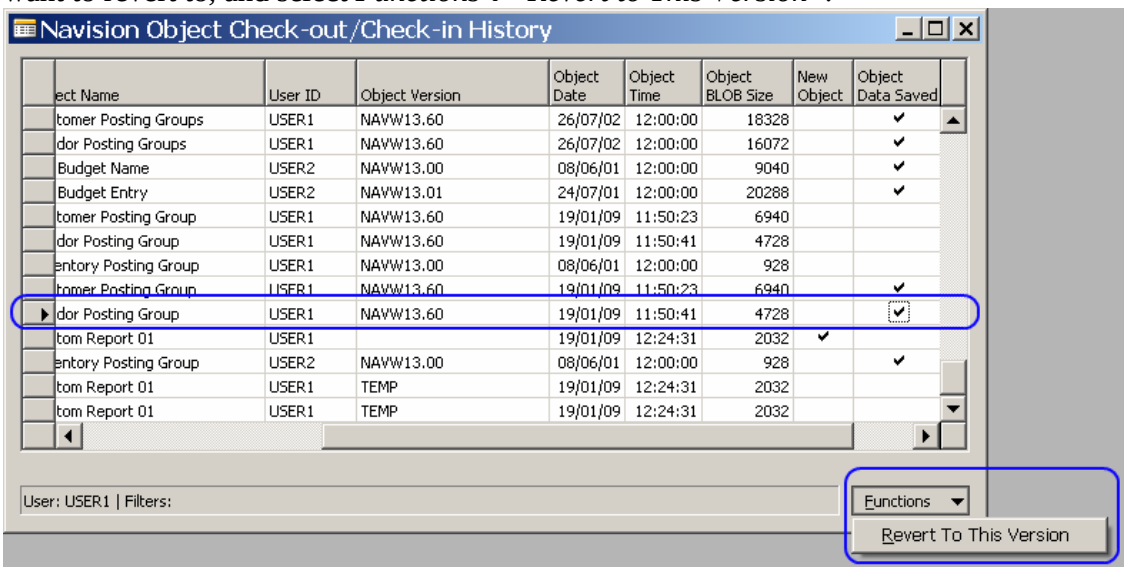
Also recorded are cases of object renumbering: in case of an object number change, the object becomes checked-out under its new number. A history entry of an action type "Renumber" is created for the original object No. and the new number is recorded in the "Renumbered To No." field (this field is not visible by default).



4. Restore of the Historical Object Version

There is a historical version restore function available from the history window. Every time an object is checked-out, its binary data is saved on the history entry. If for some reason (i.e. accidental object overwrite) a need arises to revert to an older version, it can be done from the history window.

To revert to the historical version of the object, navigate to the object version that you want to revert to, and select *Functions→"Revert to This Version"*.



5. Known Issues

5.1 The Navision client will sometimes "hang" when a single object is selected and compiled in the Object Designer's object list window. This is not the case when several objects from the list are marked and compiled or when a single object is compiled from the design mode (i.e. while having it open for editing). There's no workaround for this issue currently.

Administration

1. Dealing with Checked-out Objects

Currently there is no "administrator user" option for NOC. All users can only check-in and check-out objects for themselves. If for some reason an object needs to be modified or checked-in bypassing the NOC checks, this can be done by deleting the relevant entry from the T99101 "Navision Object Checkout Entry". This table contains an entry for each currently checked-out object in the DB. **Note:** when the check-out entry is deleted manually, no history entries are created – this results in an object version history discrepancy.

2. Uninstalling NOC

1.1. Drop the triggers from the Navision SQL database table "Object": „*NOC_INSERT*" and "*NOC_UPDATE SQL*.
2.2. Delete the NOC object from the Navision DB (list supplied an the end of this section)

3. List of NOC Objects

Type	ID	Name	Version List
Table	99100	Navision Object Checkout Setup	NOC0.8
Table	99101	Navision Object Checkout Entry	NOC0.8
Table	99102	NOC History Entry	NOC0.8
Form	99100	NOC Setup	NOC0.8
Form	99101	Navision Object Checkout	NOC0.8
Form	99102	NOC Object List Subfrom	NOC0.8
Form	99103	NOC History	NOC0.8