



# UTILITIES FOR MANAGING NETWORKARE

## Release Notes

### New Programs

#### Appadd

Associates users, groups and container objects with ZEN application objects.

#### Appdel

Removes associations between users, groups and container objects, and ZEN application objects.

#### Gwdlists

Add users to GroupWise distribution lists, removes users from distribution lists and displays the members of lists. It may also be used to change the participation types of existing list members.

#### Jblookup

For locating users in NDS and displaying selected attributes specified in a file or chosen from a list. This is essentially a much simplified version of *getname*, but also has the ability to search a particular attribute for a given value e.g. the "Telephone Number" attribute for "7885". It is intended for

performing quick look up's on information in NDS. The GUI version can be activated from the system tray.

## Nadusers

Adds users to and removes users from AD forests, domains, organizations and organizational units when using Novell Account Management with Active Directory. *Nadusers* also lists the members of the previously mentioned AD containers.

## Polassoc

Lists the associations of ZEN policy objects. This program has similar display options to *usergrps*.

## Prusers

This displays the queues and operators associated with NDS printers. It is for use with *pradd* and *prdel*.

## Wgrp memb

For use in a batch file to test if a workstation object is a member of a workstation group. It has similar functionality to *grp memb*.

## GUI Support

- Created a fully GUI version of the new *jblookup* program.
- Converted *whodidit* to display the output in a listview and this provides considerably greater flexibility for manipulating the results.
- Changed the third party product used to resize all of the component windows when maximizing the main window. The new product does a much better job.
- Numerous minor enhancements documented under individual programs.

## Changes to multiple programs

- Fixed an issue in programs accepting a list of file servers to perform some operation on, where they could produce an application error under certain circumstances in a Pure IP environment.
- Modified those programs accepting a list of file servers to perform some operation on, to also accept a list of servers in a file e.g. **users@s.lis/\***.

## Changes to individual programs

### Accexp

- Added /c to the GUI version to force the dialog box to be the topmost window.

### Applist

- Modified to allow the logical operators '&', '~' and '!' to be specified as 'and', 'or' and 'not'. For example **applist (A and B) or not C** is equivalent to **applist (A & B) ~ ! C**.
- Added /m to display the members of groups instead of just the group object names when groups are associated with each application.

### Chkhome

- Added /o to allow the object class to be specified. Possible values are 'user', 'group' and 'template'. This is primarily for use when using wild cards for groups or templates.
- Fixed an issue with locating users corresponding to long directory names when using /c and /d.
- Added /t to force checking that the user has the specified rights (e.g. /t=RWCEMF) to their home directory.

### Creatobj

- Fixed an issue where if you specified a server name before an object name, but not as part of a home directory path, the home directory was not necessarily created on that server e.g. **creatobj yogi/mandy.sales /d=vol1:users /h** would create Mandy's home directory on the server to which your current drive was mapped which may or may not be yogi.

- Fixed an issue where it did not set a value for "Grace logins remaining" when a template specified the grace logins allowed. This did not cause problems for the new user, but *nwadmin* and *ConsoleOne* did not display correctly that a grace login limit was set.
- Added support for creating NIMS:ListUser objects. These have a mandatory attribute named "Surname" which is set to equal the object name.
- Updated to work with Novell Account Management 2.1 where an extra step is required for the changes to become visible from NT when adding a user to an NT domain via a template.
- Fixed a problem where it was not granting each user rights to a profile's login script when setting the profile via a template.
- The 32 bit versions can now add users into GroupWise via a template object.

## Deladdr

- Added /b to delete addresses which it does not know how to decode. Novell have not documented all address types, and from time to time, new ones are added.
- Added the ability to recognise type 8 (UDP) and 9 (TCP) network addresses. Note that these differ from Pure IP addresses which are type 1.

## Delobj

- Added /w to remove users from GroupWise as well as NDS.
- Added /\$ to force NDS requests to go to a particular server. This may be necessary when deleting alias objects in a tree containing servers without replicas. If a server without a replica receives the request, it may not refer it to a server holding a replica.

## Domgrps

- Updated to work with Novell Account Management 2.1 where an extra step is required for the changes to become visible from NT.
- Modified to attempt each step of adding or removing a user from a domain group even some have already been done. This allows a partial addition or removal to be completed.

## Domusers

- Updated to work with Novell Account Management 2.1 where an extra step is required for the changes to become visible from NT.
- Added /b for use when adding users to a domain. This adds the domain object to the user's "IWS:Domain Trustees" attribute allowing the account to be administered from NT tools. This setting can also be applied when the user is already a domain member.

- Fixed an issue where it might not remove users from all domain groups when removing the user from the domain.
- Added /v=r to display each domain member's RID (remote ID), when displaying the domain members.

## Dquota

- Fixed a problem where /n=g was not working in the Part D version.
- Added /n=u to display the units beside each value. This does not work with /v due to lack of space across the output line.
- Added /n=f for some European countries to use periods in place of commas and vice versa when displaying numeric values.

Updated to attempt to determine whether classic directory quotas are enabled for NSS. By default, the server does not return the usage for a directory under NSS unless a quota is set, and *dquota* will then calculate the usage itself if required. When classic directory quotas are enabled, the usage is calculated and returned by the server. Currently, the only means of determining whether classic quotas are enabled is to scan the server 'set' commands which requires console rights to that server.

## Fsupdate

- Fixed a problem which could occur when copying to NSS volumes, where file and directories could be copied to the wrong location. See the detailed description under *netcopy*.
- Fixed another problem which could occur on NW 5 and possibly NW 6 where directories could be copied to the wrong location, again due to one of the NetWare functions behaving incorrectly. This could also cause incorrect behaviour when using /m. The problem is described under *netcopy*.
- Fixed a problem where it sometimes did not process all files when using /f to change attributes.
- Increased the range of attributes which can be set using /a. In addition to the most common attributes which could previously be set, the following can also now be used:
  - c copy inhibit
  - dc don't compress
  - di delete inhibit
  - dm don't migrate
  - ds don't suballocate
  - ic immediate compress
  - p purge immediate

ri    rename inhibit  
t    transactional

- Modified the behaviour of /a and /b (for setting file and directory attributes) so that both '+' and '-' can be used to add and remove attributes in the same command. Previously, it would either add or remove, not both. When neither '+' nor '-' are used, the attributes are set to those specified.
- Added /\$ for use with /d to indicate that a directory has been specified rather than a path and file name. By default, if the lowest level of the path does not exist, it is assumed to be a file name. If /s is also used, *fsupdate* will scan the directory tree looking for files with that name to delete. When /\$ is used, this will not happen.
- Fixed an issue where the NetWare client could time out when an internal copy took more than 3 minutes. This typically occurred only when copying files larger than 100 MB, and has been worked around by doing internal copies in 50MB chunks. Previously, the entire copy was done by sending a single request to the server.
- Modified to allow a comma separated list of file names to be given when copying, deleting and setting attributes e.g. *fsupdate yogi/vol1:apps\\*.exe,\*.dll hewey,dewey,louie/vol1:apps*.
- Modified to copy the modification date and time, and the last access date for directories. Previously NetWare did not store these values for directories.
- Modified to attempt to work around a problem caused by server based anti virus software configured to scan files after they have been written. If the anti virus software opens the file too soon after closure, *fsupdate* cannot set the attributes as this action requires that the file be closed. *fsupdate* now minimizes the delay between closing the file and setting the attributes.

## Fsrights

- Modified to allow multiple servers to be specified and to be able to process all volumes on a server. *Fsrights* now accepts a list of servers as per *fsupdate*, with wild cards allowed and '!' may precede a server name to exclude it. When a path is not specified (e.g. hoki,moki/), all volumes on the server will be processed.

## Getname

- 'Worked around a problem displaying common names and other names. These are stored in the "CN" attribute with the first value being treated as the common name, the second and subsequent, if present, as the 'other names'. But NDS does not guarantee to return attribute values in a particular order, so an 'other name' could be displayed as the common name and vice versa.
- Modified to display the stream attributes "App:Startup Script" and "App:Shutdown Script" as text attributes rather than binary attributes.

- Fixed a problem where it may not show values for attributes of type "Octet String". However, it showed them correctly when displaying all attributes (/a=\*).
- Fixed an issue where it was not accepting some abbreviated forms of attribute names e.g. "internet" for "Internet Email Address".
- Modified to display the first 100 bytes of attributes of type "Octet String" when using a template. These are displayed in full when using /a=\* and /a=attribute, but were previously ignored for other situations e.g. /a="%login %full %bindery\_property".
- Added /z=o to display only the modification timestamp for attribute values. This option suppresses displaying of the values whereas /z without a value displays both the value and modification timestamp.
- Added the ability to decode network address entries of type 8 (UDP), 9 (TCP) and 13 (URL).
- Added /q to display the attributes given on the command line or in the template file in the format used for displaying all attributes. Any extra text on the command line, or formatting in the template file is ignored.
- Fixed a problem where *getname* could give an application error when using /z to show attribute modification times, and the attribute existed but did not have a value.
- Improved the display of "App:GUID", "GUID", "Other GUID" and "NGW: Visibility" attributes.
- Removed the old function of /f which was an alternative to preceding a file name with '@'.
- Added a new /f where an attribute name can be specified. This is the attribute on which filtering via /n will apply. The attribute does not have to be one being displayed, for example you can filter on location while displaying telephone numbers. When /n is used without /f, filtering will occur on the first attribute displayed other than object's name. Note that filtering does not work on object IDs, creation and modification dates and "Other names".
- Modified to check for the existence of a "City" attribute in the schema. Previously "City" was mapped to "Physical Delivery Office Name", but in eDir 8.5, a "City" attribute was introduced. Now, "City" is mapped to "Physical Delivery Office Name" only when there is no "City" attribute defined.
- Modified the way the creator's and modifier's names are displayed. Previously they were displayed as they are stored i.e. as typed names with commas in place of periods. Now the commas are replaced with periods, and they are displayed like other object names, depending on the value for /y.
- Modified to use a much larger buffer for displaying attributes of type "Octet String". It will now display values up to around 60KB in size.

## Getquota

- Modified to place double quotes around paths and object names when producing output for *setquota*. This ensures that *setquota* reads them correctly when they contain spaces.
- Fixed a problem where /w was not working in DOS versions.

- Updated to attempt to determine whether classic directory quotas are enabled for NSS. By default, the server does not return the usage for a directory under NSS unless a quota is set, and *getquota* will then calculate the usage itself if required. When classic directory quotas are enabled, the usage is calculated and returned by the server. Currently, the only means of determining whether classic quotas are enabled is to scan the server 'set' commands which requires console rights to that server.
- Added /x=r to scan the entire tree from [Root] for matching objects. This is achieved in most programs by combining /x and /r, but /r is already used and there are no spare letters.

## Getrest

- Added /b to ignore objects for which the requested attribute does not exist. This option is ignored when displaying all account restrictions.
- Modified the way the creator's and modifier's names are displayed. Previously they were displayed as they are stored i.e. as typed names with commas in place of periods. Now the commas are replaced with periods, and they are displayed like other object names, depending on the value for /y.
- Fixed a problem where filtering on network addresses was not working when a value of 'none' was used.
- Fixed a problem where /u, which forces displaying of user names only, was not working for station restrictions and network addresses.

## Grplist

- Modified to allow the logical operators '&', '~' and '!' to be specified as 'and', 'or' and 'not'. For example ***grplist (A and B) or not C*** is equivalent to ***grplist (A & B) ~ ! C***.

## Jrbcapt

- Modified to set a default value of "LPTx" for the job description field where x is the port number. By default, the NetWare client sets this to "LPT Catch". This setting is now displayed when showing the current capture settings.
- Added /desc to allow a value to be specified for the job description.
- Modified to show the current capture settings when the only parameters given are /local and/or /page. Previously, *jrbcapt* did not do anything when only these parameters were given.
- Fixed a problem where capturing to a queue could result in an "Invalid path" error.



## Jrbcx

- Added /h to allow setting the context in the target tree to that in which the user running the program resides. For example if you are authenticated to the target tree as carol.sales.ny.abc, your context will be set to sales.ny.abc.

## Jrbimprt

- Fixed a problem introduced in JRButils v8.0 where it was not processing volume restrictions in the data file.
- Fixed a problem where it would not create home directories when also setting volume restrictions.
- Added the ability to set NMAS/NFA simple passwords via the control statement "Set simple passwords". The default is not to set these. To set simple passwords, cryptographic services must be installed on the machine on which *jrbimprt* is being run. Further, three NMAS DLLs (nmas.dll, nmasmsg.dll and legacylogin.dll) are required. These are available if the NMAS client has been installed, otherwise they can be copied from *ConsoleOne*'s bin directory on any server where NFA or NMAS has been installed.
- Added the control statement "Set NDS passwords". This allows the setting of NDS for NT, GroupWise, NT Domain and/or simple passwords without setting NDS passwords. The default is to set NDS passwords.
- Fixed an issue where the NDS password could be set after the password expiration time, thereby overwriting the password expiration time (setting the password automatically sets the expiration time to 1/1/1992).
- Fixed an issue where under some circumstances it would fail to detect that a password expiration interval had been set via a template, and having detected that a password expiration date had been set, would set a default value of 40 for the password expiration interval.
- Sometimes when processing large numbers of users (500+) the connection to a server is lost. While this is almost certainly a problem with the NetWare client, *jrbimprt* has been modified to try to detect this at several key points in the program, and to reconnect. However, it is totally impractical to check the validity of a server connection every time, as there are literally hundreds of places in the program where this would need to be done.
- Modified to ensure that if a grace login limit is set, the grace logins remaining are set to the same value, and vice versa. If one is set but not the other, *ConsoleOne* and *nwadmin* may show neither as being set.
- Added support for setting NT domain passwords for existing domain users. The workstation from which *jrbimprt* is being run must be logged into the domain with sufficient privilege.
- Fixed an issue where it was not correctly handling auxiliary classes with mandatory attributes. Values for the mandatory attributes must be set in the same request to the server which adds the auxiliary class. Note that there are still two outstanding problems here. *Jrbimprt* will not work correctly if the control file specifies more than one auxiliary class and two or more of these have identical mandatory attributes. *Jrbimprt* will also not apply an auxiliary class from a

template where the class has mandatory attributes for which the user does not already have values set.

- Fixed an issue where it would fail to change a value for mandatory single valued attributes such as "homeDirectory" for the auxiliary class posixAccount.
- Added a number of new field names which are translated to actual attribute names. Most of these are new attributes in eDirectory (NDS 8.5 or later). They are:

Field Name	Attribute Name
Access card number	accessCardNumber
Assistant phone	assistantPhone
Business category	businessCategory
Car license	carLicense
Cost center	costCenter
Cost center description	costCenterDescription
Country	co
Department number	departmentNumber
Display name	displayName
Employee status	employeeStatus
Employee type	employeeType
First name	Given Name
Home phone	homePhone
Instant messaging ID	instantMessagingID
Is manager	isManager
Mail stop	mailStop
Manager workforce ID	managerWorkforceID
Other phone number	otherPhoneNumber
Personal title	personalTitle
Preferred language	preferredLanguage
Preferred name	preferredName
Prefix	personalTitle
Registered address	registeredAddress
Room number	roomNumber
Site location	siteLocation
Suffix	Generational Qualifier
Toll free phone number	tollFreePhoneNumber
Unique ID	uniqueID
Vehicle information	vehicleInformation
workforceID	workforceID

For other new attributes with single word names e.g. "Mobile", "Pager" and "Company", simply use the attribute name as the field name.

- Modified to allow a tab as the separator character. This must be specified via the control statement "separator=tab" i.e. use the three letters 'tab' rather than a tab character which is treated as white space in the control file.
- Modified to allow distinguished names with a leading period to appear in the data file. This allows creating or updating users in a different context from that set by the "Name context" control statement. Note that relative names (e.g. john.sales.) are not allowed.
- Added a "Search NDS" control statement. This may be useful when updating or removing users and the data file is created by a data base which does not know the user's contexts. *Jrbimprt* will search the entire tree for the user. This option is ignored for 'create' mode, and when the user name is a distinguished name with a leading period. An error is given when more than one matching object is found.
- Added the control statement "Home directory attributes" to allow attributes such as Di (delete inhibit) and P (purge immediate) to be set on the home directory.
- Fixed a problem where it could cause an application error when encountering a missing integer value in the data file.
- Modified to allow a time to be specified for "Account has expiration date" and "Date password expires" e.g. "11/12/03 9:00:00". Previously only a date could be specified.
- Modified to check for the existence of a "City" attribute in the schema. Previously "City" was mapped to "Physical Delivery Office Name", but in eDir 8.5, a "City" attribute was introduced. Now, "City" is mapped to "Physical Delivery Office Name" only when there is no "City" attribute defined.
- Updated to work with Novell Account Management 2.1 where an extra step is required when adding users to an NDS for NT domain. This update allows the changes to become visible from NT.
- Added support for GroupWise. Users can be added to or removed from GroupWise, added to or removed from GroupWise distribution lists, and have their GroupWise password, visibility, mailbox expiration date, and description set. Users may be added to GroupWise via a template. The following new control statements have been added:
  - "GroupWise server path" specifies the path to the database.
  - "GroupWise domain object" specifies the name of the domain object.
  - "GroupWise post office" specifies the name of the post office.
  - "GroupWise add users" adds users into GroupWise.
  - "GroupWise remove users" removes users from GroupWise.
  - "GroupWise add distribution lists" gives a list of distribution lists to which each user will be added.
  - "GroupWise remove distribution lists" gives a list of distribution lists from which each user will be removed.
  - "GroupWise distribution lists participation" specifies the participation type (to, cc, bc) for the lists. It may be used when adding members to a list, and to change the participation type for existing members.
  - "GroupWise set passwords" is self explanatory.

"Set GroupWise passwords" is an alternative to the previous statement.

One of the first two statements must be present. In addition the following field names may be used:

"GroupWise description" sets the description.

"GroupWise expiration date" sets the mailbox expiration date.

"GroupWise password" allows a GroupWise specific password to be set.

"GroupWise visibility" sets the visibility.

- Fixed an issue with removing values for "Other names" when "delete property=y" was set.
- Added control statement "Set passwords only on create" for use when import mode = 'b' to prevent passwords being set when the object is updated. This may be useful when some users in the data file have already been created, and you do not want to set the password for those users, in case they have already logged in and changed their passwords.
- Fixed a problem where it was not granting each user rights to a profile's login script when setting the profile via a template.
- Modified the method used to scan the tree for objects with the same name when /c=t is used. The original method used, required more than browse rights to [Root] and so could not be used by local administrators with full rights to only a portion of the tree. Now /c=t works correctly with only browse rights to [Root].
- Modified to require an "alias context" statement when the control statement "create aliases=y" is used. Previously, the name context was used when no "alias context" was specified, which could result in *jrbimprt* trying to create a user and an alias with the same name in the same container.
- Added "Group membership add" and "Group membership remove" control statements allowing adding users to and removing users from groups without having to place the group names in the data file for each user.
- Added a "Create subdirectory" control statement to compliment the existing "Create subdirectories" control statement. This new statement allows a comma separated list comprising a subdirectory name (which may be multi-levelled), a set of attributes to apply to it (e.g. PRiDi), then one or more object name and rights pairs for creation of trustee assignments. For example:  
"Create subdirectory=data\comp101,diri,jonesk.staff.abc,rwcmf,martinp,rf" will create data\comp101 in each users home directory, apply DiRi attributes to the comp101 directory, then grant jonesk.staff.abc RWCEMF rights and martinp RF rights to the comp101 directory.
- Added the ability to remove directory restrictions by giving a value of 'none' e.g. "Home directory restriction=none".
- Updated to work correctly with extended characters such as Ä, Ö and Ü in object names and attribute values.

## Jrbpass

- Added support for setting NMAS/NFA simple passwords. These can be set in addition to or instead of NDS, and NDS for NT passwords. See further comments under *jrbimprt*.
- Modified to append the user's full name in double quotes to the user name in the edit box after a search is made. This assists in ensuring that you are setting the password for the correct user.
- Added -n=f as a command line option to prevent appending the full name to the user name after a search.
- Modified to make the search button the first tab stop after the user name edit box.
- Added support for setting NT domain passwords when the user is logged into a domain without NDS for NT/Corporate edition/Novell Account Management being present.
- Modified to automatically check the "NDS for NT" checkbox if the user is logged into a domain via NDS for NT.

## Killconn

- Worked around a problem where it was not recognising "not logged in" connections under NW 6. The problem was caused by a change in behaviour of an API under NW 6.

## Listobj

- Fixed a long standing bug where an application error could result from object names longer than 128 characters.
- Fixed another long standing bug where /n failed when the search pattern included spaces.
- Changed /^ to /+ because the '^' character is interpreted by the Windows command line parser whereas '+' is not.
- Modified the way it displays the name of NLS Product Containers. These have a distinguished name of the form "NLS:Product=NetWare 5 Conn SCL+NLS:Publisher=Novell+NLS:Version=510.O=jrb" and when displayed without 'typing' *listobj* displayed them as "NetWare 5 Conn SCL+Novell+510.jrb". However, *nwadmin* and *ConsoleOne* displayed them as "Novell+NetWare 5 Conn SCL+510.jrb" i.e. the publisher appeared first. For unknown reasons, some of the SDK functions used by *listobj*, change the order of the components. *Listobj* has been modified to change them back again. The same applies when displaying license certificate objects within the NLS Product License Container.
- Modified to allow names in files to be enclosed in double quotes.

## Lscripts

- Modified to allow a value for /m when copying login scripts from NDS to a mail directory. By default, *lscripts* will copy the script to the user's mail directory on the server in their "Message Server" attribute, but you may now specify the target server via /m e.g. /m=yogi.

## Move\_dir

- Fixed an issue where files and directories could lose their long name when being moved.
- Added the ability to use wild cards. By default it is assumed that files are being moved, but /d has been added to indicate whether to move files, directories or both that match e.g. ***move\_dir j\* yogi/vol1:shared yogi/vol1:mgmt /dd*** will move all directories with the first letter 'j' from the shared directory to the mgmt directory.

## Netcopy

- Fixed a problem introduced in v8.0 where /o may not work. One line of code somehow got lost!
- Fixed a problem which could occur when copying to NSS volumes, where file and directories could be copied to the wrong location. The problem occurred when a directory already existed in the target directory with the same DOS name as the directory being copied. *Netcopy* attempts to change the DOS name of the newly created directory to that of the directory being copied, and the function used for renaming was returning 'success' when it had not renamed the directory. This problem has been worked around, and it has been reported to Novell.
- Fixed another problem which could occur on NW 5 and possibly NW 6 where directories could be copied to the wrong location, again due to one of the NetWare functions behaving incorrectly. The problem occurred when in the same directory, a subdirectory had a long name matching the DOS name of another subdirectory e.g. vol1:users\anne contained directory 'programme' with DOS name 'PROGRA~1', and also contained a directory with long name 'PROGRA~1'. The fault has been reported to Novell.
- Fixed an issue where the NetWare client could time out when an internal copy took more than 3 minutes. This typically occurred only when copying files larger than 100 MB, and has been worked around by doing internal copies in 50MB chunks. Previously, the entire copy was done by sending a single request to the server.
- Modified to copy the modification date and time, and the last access date for directories. Previously NetWare did not store these values for directories.
- Modified to attempt to work around a problem caused by server based anti virus software configured to scan files after they have been written. If the anti virus software opens the file too soon after closure, *netcopy* cannot set the attributes as this action requires that the file be closed. *Netcopy* now minimizes the delay between closing the file and setting the attributes.

## Openfile

- Fixed an issue where when using /d=t, *openfile* would stop processing directories after encountering a directory containing no matching files.
- Fixed some minor issues with the display in the fully GUI version when changing between selecting objects, connections or files.
- Fixed a problem in the GUI version where it could sometimes send a user a message when it should not have.

## Pndel

- Added /a to do contextless removal of objects. By default, an object name to be removed gets expanded to a distinguished name, so '\*' for example becomes \*.sales.ny.abc assuming that your current context is sales.ny.abc. Consequently only objects in sales.ny.abc are removed. Use /a to prevent the object name being expanded when no context information. For example ***pndel ndps\_1 \* /a*** will remove all users regardless of their context.

## Pnsetup

- Added /m=d to force removal of the printer's driver files in addition to removing the printer.

## Profiles

- Modified /d to allow a context to be specified as per /v. By default, when removing users from a profile and wild cards are used, the users of the profile are identified by checking the ACLs of the profile object granting R rights to the "Login Script" attribute. If those ACLs are not present because rights are assigned via a different method, the users will not be found. Now, if you specify a context with /d (e.g. /d=sales.sf.abc), the *profiles* program will scan all users in and below this context and check if their "Profile" attribute contains the required profile object, and if so remove them from that profile.
- Modified /x to work with adding users to a profile. Previously, it could only be used for scanning for profile objects when displaying the users of each profile.

## Pwdexp

- Added support for setting simple passwords into the GUI version. See further comments under *jrbimprt* on the workstation requirements to set simple passwords.
- Added support for setting NT domain passwords into the GUI version.
- Added /o into the GUI version to replace the "Change it now" and "Change it later" buttons with a single "OK" button when the password is within the expiration period.

- Added /h and /i to the GUI version to control the checking of password check boxes when using /a which prevents the user from selecting the passwords to be set. /h forces checking of the boxes, /i forces unchecking of the boxes. Possible values for both are:
  - n NetWare
  - m NDS for NT, NT domain or local workstation
  - s Simple password

## Quotas

- Fixed a problem where it was not automatically changing the fields displayed at the start of each line, when changing from displaying volume to directory quotas or vice versa, or changing from by user to by directory or vice versa.
- Added support for setting quotas for queues.
- Fixed various minor problems with defaults not changing when switching between setting and displaying quotas, or changing between volume and directory quotas.

## Renobj

- Added /w to 32 bit versions to rename users in GroupWise. By default when /w is used, users will be renamed in both GroupWise and NDS, but /w=g may be used to rename the users only in GroupWise.
- Added /x for use with /w=g to rename the user in GroupWise to their NDS full name.
- Added /h to allow a delay in seconds to be specified. The delay occurs after renaming the user in NDS and before renaming the user in GroupWise. This may be necessary to allow replication of the NDS rename to occur before doing the rename in GroupWise.
- Modified /z to allow an attribute name to be specified. Previously, /z allowed the old object name to be stored as an "other name" i.e. a second or subsequent entry in the "CN" attribute, but /z can now be used to store the old name in any attribute holding a text value e.g. /z=description.

## Requests

- Added /f to display each user's full name in parenthesis after their object name. This may be useful to help identify the person associated with the object name.

## Salvlist

- Added a 'row number' column to the list of possible output columns in the GUI version. This may be useful for example, to count off the number of zero length deleted files in a directory, or the number of files with a given extension such as 'tmp'.



- Fixed a problem in the GUI version where it was not printing the recovered name column.
- Added the recovered name as a selectable column in the GUI version. If this column is not being displayed when a file is recovered, it is added as the right-most column.
- Added a heading and the number of deleted files to the printed output from the fully GUI version.
- Added an option to the GUI version to sort by file or directory extension.
- Fixed an issue where it failed to right justify the first column when it contained sizes or row numbers.
- Added support to the GUI version for saving the contents of the list view to a file when clicking on the 'Save' and 'Save as' File Menu items. Under 'Save as', three options exists: (a) save at the current column widths, (2) save at column widths corresponding to the widest item in each column, (3) save in comma delimited form with each item in double quotes.
- Added the same three options above for printing the contents of the list view to the GUI version.
- Implemented page selection when printing
- Added the following sorting options to the non-GUI versions:
  - by creation date and time
  - by update date and time
  - by last access date
  - by attributes
  - by inherited rights filter
  - by updater
- Modified the fully GUI version to retain its horizontal and vertical scrolling position when a column caption is clicked on to sort the column, and when the "redisplay" button is clicked.

## Schema

- Modified so that when using /o to list the object classes for which an attribute is valid, it indicates if the object class is an auxiliary class.

## Setacl

- Added support for setting and removing ACLs for attributes belonging to auxiliary classes.

## Sethome2

- Added support for /g=x. /g is primarily provided as a means of creating home directories when the "Home Directory" attribute is already set but the actual home directories, for

whatever reason do not exist. However, allowing `/g=x` where `x` means remove any existing trustee assignment, provides a convenient means of removing trustee assignments from existing directories. *Sethome2* will report the home directory already exists and then removes any existing trustee assignment. This could also be achieved via `/c=x`, but that requires the home directory path be specified, and *sethome2* attempts to create the "Home Directory" attribute, create the home directory, and set/remove a trustee assignment.

- Fixed a problem occurring when using `/r` to copy paths from the "Home Directory" attribute to the bindery "HOME\_DIR" property where it could attempt to validate the path on the current server rather than the server pointed to by the volume object component of "Home Directory".
- Added `/u` to specify whether the path component of the "Home Directory" attribute is preceded by a slash e.g. "`\users\john`" rather than "`users\john`". Use `/u=y` to insert a slash, `/u=n` to omit it. The default is `/u=n`. `/u` can be used with `/i` to change existing entries in the "Home Directory" attribute. One customer reported problems with *ConsoleOne* where paths were not preceded by a slash, although we were unable to reproduce that.
- Changed the existing `/o` to `/v`.
- Modified `/o` to allow the object class to be specified. Possible values are 'user', 'group' and 'template'. This is primarily for use when using wild cards for groups or templates.
- Added `/q` to query whether or not to process each user.

## Setname

- Removed the ability to process NW 3.x *makeuser* input files to convert full names to lowercase.
- Added support for setting some attributes of type "Path", e.g. the "Path" attribute for directory map objects. A path attribute has three components - an NDS object which is specified as the value on the command line, a path which is specified via `/m`, and a name space type which can be set via `/h`.
- Modified `/s` which replaces a separator in a string value with `<CR><LF>` pairs. If the specified character is followed by 'c', the separator will be replaced by `<CR>`'s only, if by 'l' it will be replaced by `<LF>`'s only. Some attributes e.g. "Novonyx:Proxy List" use one character or the other rather than the `<CR><LF>` pair.
- Fixed an issue where it was not allowing some truncated attribute names to be used.
- Modified to check for the existence of a "City" attribute in the schema. Previously "City" was mapped to "Physical Delivery Office Name", but in eDir 8.5, a "City" attribute was introduced. Now, "City" is mapped to "Physical Delivery Office Name", only when there is no "City" attribute defined.
- Fixed an issue where it would not work across trees when your current drive was mapped to a server in one tree, and you were trying to modify object attributes in a different tree.
- Added the ability to copy the contents of a file into an attribute of type "Octet String". For example, this allows the copying of a jpg file into a user's "photo" attribute.
- Modified to allow the object name specified via `/z` to be prefixed with a tree name e.g. `/z="manuka/.john.sales.abc"`. The workstation must have an existing connection to the tree.

## Setowner

- On NSS volumes, changing ownership of files results in the space occupied by the file being immediately added to the new owner's usage when the new owner has a volume quota. If changing the ownership causes the new owner to exceed their quota, the change will fail but no error was reported by the server. *Setowner* now checks that ownership has changed on an NSS volume and reports an error if it has not.
- Modified to work around an NDS 8 bug when searching for objects with underscores in the name when trying to locate an object matching a directory name.

## Setpwd

- Added support into 32 bit versions for setting NMAS/NFA simple passwords via */m=s*. These can be set in addition to or instead of NDS and other passwords. See further comments under *jrbinprt*.
- Added support into 32 bit versions for setting AD passwords when using Novell Account Management with W2K or XP. Note that the AD password must match the NDS password (a Novell requirement) which can be set either in the same invocation of *setpwd* or can have been set previously.
- Added */d* to specify a delay in seconds before setting an AD password. This may be needed when setting both the NDS and AD passwords because the routines called in PWDNOTFY.DLL check that the AD password being set matches the current NDS password, and it may be necessary to wait for replication to occur. At least some versions of PWDNOTFY.DLL always check the password on the master of the replica so *setpwd* attempts to send an NDS password change to the master when also setting an AD password.
- Removed the existing functionality of */f* which indicated a parameter was an input file. This can still be achieved by preceding the file name with '@'.
- Added the ability to force *setpwd* to require the old password in order to set a new one. This is achieved via use of */f*.
- Added the ability to reset Intruder lockout before changing a user's password. This is achieved via */h*. Sufficient rights are required to the "Locked By Intruder" attribute to change the value, and to the "Login Intruder Attempts" and "Login Intruder Reset Time" attributes to delete their values.
- Added support into 32 bit versions for setting GroupWise passwords via */m=g*. These can be set in addition to or instead of NDS, and other passwords.
- Fixed an issue in the GUI version where saving randomly generated passwords to a file was not working correctly.
- Added */v* to allow verification of NDS or bindery passwords rather than setting them. It is not possible to verify the other types of password which *setpwd* can set. This feature provides a means of detecting users without passwords set e.g. *setpwd \* /v/n* will report that the password matched on all users in the current context without a password.

## Setquota

- Modified to accept double quotes around paths and object names in an input file to avoid a problem where they contain spaces and the path or name was previously considered to have ended when the first space was encountered.
- Fixed an issue where setting the quota relative to the current usage was not working for volume restrictions.
- Modified to allow setting quotas on queue directories.
- Added /o to specify the object class when the object name contains wild cards.
- Modified to skip volumes named “\_ADMIN” on NW 6 when using /a. *Setquota* already skipped volumes named “NSS\_ADMIN” under NW 5.
- Added /g to allow removal of volume quotas from a volume. The following values may be used:
  - a    remove all quotas
  - n    remove quotas for non-user objects
  - u    remove quotas for unknown objects (the default)
- Added /i to prevent setting a quota when the user or directory already has one.

## Setrest

- Fixed an issue where it was setting GroupWise visibility and mailbox expiration time in NDS only, not in GroupWise so the changes were not effective.
- Fixed an issue where it failed to set maximum concurrent connections on NW 6 due to a bug in NW 6.

## Settrust

- Added /c to force it to validate an object on the server on which the rights are being added or removed. This is primarily for when using *settrust* in a script which creates users via *creatobj* then assigns rights via *settrust*, and avoids an issue where insufficient time has elapsed for replication to occur. *Settrust*, by default, attempts to perform the validation on the server on which the rights are being modified, but does not enforce that because to do so would require that any object being granted rights must exist in a replica on that server which will not always be true. The NetWare client, for reasons known only to itself, may send the validation request to another server unless /c is used.
- Updated to restore inherited rights filters via /b. It can do this for both *settrust* and *rights* commands. No new options are required to do this, *settrust* recognises the type of command in the file.
- Updated to allow double quotes around paths in an input file. Double quotes must be used when the paths contain spaces.

- Fixed an issue where it might not delete all trustee assignments for a file or directory when more than 20 were present.

## Trstlist

- Added /c to control whether file or directory trustee assignments are displayed when displaying trustees for selected objects. Previously, *trstlist* always displayed both file and directory trustee assignments. Note that /d which also allows you to select directories or files, applies only when a path is specified, not an NDS or bindery object.
- Updated to also display and save inherited rights filters when processing files and directories. What is displayed is now controlled via /t which can have the following values:
  - b both trustee assignments and inherited rights filters (IRFs)
  - i inherited rights filters
  - t trustee assignments

By default, IRFs are displayed only if not equal to [SRWCEMFA]. However, /v can be used to display all IRFs.

- Fixed an issue in the GUI version where it behaved incorrectly when no server was specified.
- Modified the GUI version to produce an error if filtering is enabled but no rights boxes are checked.

## Usergrps

- Added /n=f to display groups one per line with their full names.

## Users

- Added a heading and the number of connections to the printed output from the fully GUI version.
- Fixed a problem introduced in v8.0 where it was not showing any connection information unless the user running the program has supervisor or console rights to the server.
- Added the ability to display and sort by the following new fields for each connection:
  - Object class
  - File locks (requires NW 5 or 6)
  - Record locks (requires NW 5 or 6)
  - Server rights (requires NW 5 or 6). These may be Normal, Auditor, Console, Supervisor.
- Added a new column to the fully GUI version for displaying the row number.

- Added support to the GUI version for clearing connections when right clicking in the list view.
- Added support to the GUI version for saving the contents of the list view to a file when clicking on the 'Save' and 'Save as' File Menu items. Under 'Save as', three options exist: (a) save at the current column widths, (2) save at column widths corresponding to the widest item in each column, (3) save in comma delimited form with each item in double quotes.
- Added the same three options above for printing the contents of the list view to the GUI version.
- Implemented page selection when printing.
- Separated the protocol options from the authentication options in the GUI version and added an "All protocols" option as the default.
- Added another checkbox to the authentication options allowing the display of all connections except those which are 'not logged in'.
- Modified so that the output options page displays a format matching that selected on the main options page.
- Added to the GUI version the ability to send a message to a connection.
- Fixed a problem in the GUI version where it would sometimes cause an application error after the exit button has been pressed.
- Fixed in 32 bit versions, an issue where 'NOT-LOGGED-IN' connections were not being displayed on NW 6. This issue existed in all versions due to the NWGetConnectionInformation function indicating an invalid connection number for a 'NOT-LOGGED-IN' connection on NW 6. An alternative function is now used in 32 bit versions, but as it is not available for the DOS platform, DOS versions will not display 'NOT-LOGGED-IN' connections on NW 6.
- Modified the fully GUI version to retain its horizontal and vertical scrolling position when a column caption is clicked on to sort the column, and when the "redisplay" button is clicked.
- Modified to detect connections from Macs using Native File Access and to display their addresses correctly as IP numbers.
- Added /b=m to allow filtering on Macs connecting via Native File Access.

## Wgrpadd

- Added support for specifying '.' as a workstation name in 32 bit versions. *Wgrpadd* will retrieve the current workstation's object name from the registry.

## Wgrpdel

- Added support for specifying '.' as a workstation name in 32 bit versions. *Wgrpdel* will retrieve the current workstation's object name from the registry.

## Wgrplist

- Modified to allow the logical operators '&', '~' and '!' to be specified as 'and', 'or' and 'not'. For example **wgrplist (A and B) or not C** is equivalent to **wgrplist (A & B) ~ ! C**.

## Whodidit

- Fixed a problem where filtering by owner, updater and archiver did not always work when using an input file (it depended on how the object name was given).
- Added /o=# to display the number of files in directories
- Added /o=\$ to display the number of deleted files in directories
- Fixed a problem in the GUI version where once filtering had been used, it was not possible to turn it off without restarting the program.
- Added the ability to sort output by the following fields:
  - owner
  - updater
  - archiver
  - creation date and time
  - update date and time
  - archive date and time
  - last access date
  - logical size
  - physical size
  - resource fork size (mac files)
  - quota (directories only)
  - total size (logical + resource fork size)
  - attributes
  - path length in the name space displayed
  - number of files in the directory
  - number of deleted files in the directory
  - DOS name
  - Mac name
  - NFS name
  - Long name
  - FTAM name

inherited rights filter

owning name space

number of extended attribute keys present

total size of the extended attributes

- Modified to use more efficient functions for retrieving files and directories, so it should process large directory trees a little faster.
- Modified to give an error when no matching files were found and it is processing only a single directory.
- Modified the handling of extended attributes. Now instead of simply displaying whether a file or directory has extended attributes, it displays the number of extended attribute keys for `/o=e`, and `/o=[` has been added to display the total bytes occupied by extended attributes.
- Updated to display update dates and times, and last access dates for directories. NetWare did not previously record these values, and *whodidit* displayed the value as 'None'.