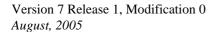# NUTIL - *The Navan Utilities*

Version 7 Release 1, Modification 0
August, 2005

Installation Notes

The Navan Utility Library NUTIL is now at Version 7, Release 1, Modification level 0.

Please note that copies and Installations of NUTIL prior to Version 6 Release 9 are no longer supported by Navan or its' representatives.

NUTIL Version 7, Release 1 requires the OS/400 Operating System to be at Version 5.2 or greater, and *should only* be installed on a copy of NUTIL currently at Version 6.0 or greater.

You can determine the release level of your installed version of NUTIL as follows:

```
ADDLIBLE  LIB(NUTIL)                  if necessary
CALL      PGM(NUTIL/NU9000)
```

The display will show the release level of your installed version of NUTIL.

The CD-ROM, tape or savefile supplied contains a complete (replacement) NUTIL library and can be installed automatically. If you already have an old version of NUTIL on your iSeries, your data will be loaded from the old version into your new version, by the installation command. Installation time is dependent upon whether the installation procedure is copying data from an old version of NUTIL, but will normally take between 15 minutes and 1 hour to complete.

Installation is performed as follows:

1. Ensure that no users are using any NUTIL functions. Ensure that SCHEDULER is not currently running. Ensure that Report Distribution is not currently running.

2. Sign on as the System Security Officer QSECOFR, or as a user profile that has *ALLOBJ special authority. This installation MUST be performed by a user with *ALLOBJ authority for all programs to function as designed.

3. If NUTIL is in your library list, remove it:

      RMVLIBLE NUTIL

4. If necessary save a copy of your existing version of the NUTIL library:

      SAVLIB NUTIL...

You are now ready to commence the installation. Before starting you should read the last page of this document, which provides important notes on how the install routine works.

The installation routine can be run using either a CD-ROM disk, tape, or from savefile objects:

If you are installing from CD-ROM

5(CD). Load the supplied CD-ROM disk into the iSeries CD drive and install the new version of the NUTIL library using the LODRUN command:

```
LODRUN    DEV(*OPT)
```

The supplied CD can also be used (in the CD-ROM drive of your PC) to extract all NUTIL documentation. Documentation is stored in the \DOCS directory of the CD and can be accessed using the CD-ROM drive of your PC.

If you are installing from Tape

5(tape). Load the supplied tape onto the tape drive and install the new version of the NUTIL library using the LODRUN command:

```
LODRUN    DEV(TAP01)
```

If you are using a tape device other than TAP01, alter the device parameter in the above command accordingly.

If you are installing from Savefiles

5(savf). You should have a library called NAVANSAV on your system, which contains the following objects:

QINSTNUTIL	The NUTIL Installation program
NUTILSV	Save file containing the NUTIL library objects
NUDTAARASV	Save file containing the NUTIL data area

Install the new version of the NUTIL library using the installation program:

```
CALL PGM(NAVANSAV/QINSTNUTIL) PARM(*SAVF)
```

A pre-check will be made to ensure the objects specified above exist. If they do not, an error message will be sent and the program will end.

6. The procedure will then install NUTIL. At the completion of the procedure you should receive the message

'Navan Installation procedure completed successfully'

If you do not get this message, the installation procedure was processed incorrectly. You can determine the cause of the error by reviewing the low level messages for the job. If you cannot resolve the problem, you should contact your NUTIL support representative for assistance. You will not be able to continue the installation of this version of NUTIL and you should reinstall your old version of NUTIL.

7. The NUTIL library objects are supplied in compressed form. You should give consideration to decompressing the objects in order to improve user access times. Refer to the CL Reference manual for a discussion of the Decompress Objects (DCPOBJ) command.

8. If you use the Program Generator to create programs for your user applications, you should make sure that your user messages file contains all of the 'run-time' messages used by generated programs. You can do this by using the merge command:

```
MRGMSGF MSGF(NUTIL/RUNMSGF) TOMSGF(userlib/usermsgf)SELECT(*ALL)
```

replacing the 'to message file' parameter entries with your own user message file. You will need to run this MRGMSGF command for each of your user message files.

Post Install Procedures

There are no specific post-install procedures required for this release of NUTIL.

Support Contacts

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Summary of enhancements/changes

General

General compatibility with V5R3 of OS/400 has now been tested. This release of NUTIL is certified compatible with V5R3 of OS/400.

It is highly recommended that this release of NUTIL be installed if you are using V5R2 of OS/400; it is *essential* that you upgrade to this release of NUTIL *before* installing V5R3 (or higher) of OS/400.

Job Scheduler

New parameter added to STRSCH command - LNGLIB (Language Library), which allows the Scheduler Interrogator job to be run in a language other than the system default

RNMSTDJOB - New command added, to allow you to rename a Standard Job

The WRKSCHJOB work panel now allows you to go directly to the Scheduler History work panel via a new function key option.

RSMSCH – New command added to allow you select all, or part, of the processing schedule for a specified date and force it on to the schedule for another date. The primary purpose of this command is to enable you to reload processing that was missed (due to operational reasons).

Program Generator

New shells added:

> WRK_INQ – "Work with" panel; inquiry mode
> PRT_SQL – Print program using SQL database handling

Programmer Signon Facilities

To avoid conflict with new IBM functions, the NUTIL CHGSIGNON command has been renamed to NCHGSIGNON.

Utility Commands

PDM Options added - BM (Browse member in multimember file) and EM (edit member in multimember file)

CPYPF - A new CRTFILE parameter added, to control what should happen if the TOFILE does not exist. Also, a new CHECK parameter added, to control what should happen if ONE copy in a generic group fails.

NCVTDBFCSV, NCVTDBFPCD - the allowable values for DECSEP and FLDSEP have been expanded. You can also now define a TAB character as the separator. NCVTDBFCSV can now handle file lengths up to 8192 characters.

NFTP - Modified to ensure File Transfer support works correctly regardless of user languages (NFTP is now multi-national in operation).

NCVTSPLSTM – New parameters added to control page size for *PDF output. Additional checks added to ensure correct conversion irrespective of CCSID.

NSNDSMTPML – New command, allowing you to send an 'Internet Compliant' email from the iSeries via the internal SMTP server.

NSRVPGM – new procedure @ExCmd added, to allow the direct processing of a command from within an ILE program.

WRKDBF (Work with Database Files)

The ruler layout that is shown on a 132 character display has been corrected.

The cursor positioning for F16/F17 Scan has been corrected. Previously it was incorrectly aligned (out by one character position) when scanning a file containing more than 10 million records.

XRef (Cross Reference)

GENAPPXRF, GENOBJXRF - library list manipulation (at start of XRef Generation) corrected.

Programmer Development Facility

Option 51 has been enhanced to include the PTF library in the source retrieval. Source is now retrieved in the following priority order:

1. Development
2. Test
3. Production
4. PTF   (previously not included, therefore this change is *significant*)
5. Base

Installation Notes

If you already have NUTIL on your iSeries, the installation routine will automatically copy the data from your old copy of the product into the new version during installation. It does this by renaming your existing library (it places an @ character - Hex '7C' - at the end of the library name) and then copying from that renamed library into the new version. A problem may occur during installation if the library rename fails. To ensure this does not happen, please make sure you do not have any of the following library name on your system prior to starting the installation:

> NUTIL@
>
> (note: the @ character is country/language dependent and may be different on your machine. If you retrieve the source for the install program you can see what the rename character is for your country)

If you have any of these library names on your system, please delete the library before starting product installation.

If you already have NUTIL on your machine, to reduce the installation time for the new version please run the RGZ_NUTIL standard job in Scheduler before starting the install. This will remove redundant/obsolete data from the NUTIL database. The largest 'data copying' steps are to copy the Cross Reference database and the Job Log database. If you don't really need the data in these files you can speed up the install by clearing the files before installing the new version of NUTIL:

> Joblogs -   Clear JLPINDX and JLPJLDT
> Cross Ref -   Clear NXRFA, B, C, D, E, F, G, H, I, X

We strongly suggest that you only install NUTIL on your system when it is in a restricted state (using the ENDSYS command). This then ensures that the install will not fail due to users or jobs accessing NUTIL functions. Ending the system to a restricted state means that only the controlling subsystem QCTL will be active and you must perform the install from the system console.

Once the library has been restored, data will be copied from your old (renamed) copy of NUTIL into the new version. At the completion of the data copy, a set of jobs will be submitted to decompress the shell template files (the DCP_* jobs) and at the end of all processing a job will be submitted to delete the old version of the libraries (the DLT_* jobs). Please ensure that these submitted jobs all complete normally as well.

If you already have NUTIL on your machine, please review the standard NAVAN jobs that are supplied in the Job Scheduler with the new version of NUTIL (a copy of the standard jobs report is printed during the installation process) and check that your existing jobs are compatible with them. Use the WRKSTDJOB command to make any adjustments to your jobs. Changes to your standard jobs must be made manually.

The use of undocumented interfaces to access NUTIL objects is not recommended by Navan. Any user-defined links or accesses to any object in the NUTIL program product should be reviewed for reliability after any NUTIL program product upgrade has been applied to your system. Navan accepts no responsibility for local processes accessing NUTIL objects via undocumented interfaces.