

Product	Name RP for ND-500/5000	Reg. no. 211066D	Category STPR
Reason	New product X Change/Addition	Error Correction Different Environment	
Documen- tation	Title NOTIS-RG User Guide NOTIS-RG Reference Manual NOTIS-RG Reference Card RP-START RG-START	Reg. no. 63.024.1 <lang> 63.013.6 <lang> 99.003.2 <lang> 63.026.1 <lang> 63.029.1 <lang>	
Purpose	Program for production of reports defined in NOTIS-RG.		
Prerequi- sites	Computer Type Floating format Op. system Version	ND-500 CX SIN III VS I,J,K K if SIBAS	
	Minimum mass storage resources for installation		
	User	Userspace	Number of files
	DOMAIN-USER	600 pages on 15 files	
	SYSTEM	310 pages on 10 files	
	Minimum permanent mass storage resources		
	User	Userspace	Number of files
	DOMAIN-USER	550 pages on 10 files	
	SYSTEM	150 pages on 2 files	
Product consists of			Reg. no. Source 250221D

File Name	Type	Containing
INST-RP-500-D<rev>	PROG	Installation Program
RP-SETUP-D<rev>	XCOM	Inst. Utilities
NOTIS-RP-<lang>-D<rev>	PSEG	Program segment, RP
NOTIS-RP-<lang>-D<rev>	DSEG	Data segment, RP
NOTIS-RP-<lang>-D<rev>	LINK	Link file, RP
RGP-SI-DUMMY-D<rev>	NRF	Dummy SIBAS library
RG-CONFIG-<lang>-D	SYMB	Configuration parameters
SM-STD-<lang>-H<rev>	ALPH	Sort sequence table
DDBTABLES-G<rev>	VTM	VTM Tables
UE-ERMSG-<lang>-C<rev>	ERR	Error Messages
RP-START-<lang>-D<rev>	PSEG	RP-START program segment
RP-START-<lang>-D<rev>	DSEG	RP-START data segment
RP-START-<lang>-D<rev>	LINK	RP-START link file
RG-SERVICE-EN-D<rev>	PSEG	RG-SERVICE prog. segment
RG-SERVICE-EN-D<rev>	DSEG	RG-SERVICE data segment
RG-SERVICE-EN-D<rev>	LINK	RG-SERVICE link file

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1 NOTES

- <rev> is to be replaced by the current revision of the DIRECTORY or FILE.
- <lang> is to be replaced by the relevant language.
- The attached Software INFORMATION Reports should be read before installation.

2 ERRORS CORRECTED

2.1 From RP-C to RP-D03

- Remote flat input files may be used as input tables (if remote file access is allowed). This was possible only for the ND-100 version of RP-C.
- In computations where input columns of type PACKED DECIMAL UNSIGNED are mixed with data of other types, RP-C may show the wrong sign in the result. If the result of an addition should be negative, RP-C may show a positive result. This error is corrected in RP-D.
- If a named expression has some branches with text constants and others with numeric constants, RP-D gives the error message 'String and numeric alternatives mixed in expression <name>'. RP-C aborted when this error occurred.
- RP-D allows several batch processors to run reports with sorting at the same time. The batch processors will use different scratch files for sorting.
- Numbers between 0.5 and 1 are rounded to 1 for output with no decimals. RP-C rounded such numbers to 0.

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2.2 From RP-D03 to RP-D04

(This are mentioned in the Software INFORMATION Report)

- RP-D04 is able to output reports on terminals connected to a NET-ONE network. RP-D03 gave a VTM error message in this case.
- Output to remote output files now works properly.
- If a report with NOTIS-DS input or output is aborted, the NOTIS-DS document is closed before RP terminates.
- The LOOKUP function now works when constructing limits for key search in main table, and when constructing owner fields for subtables.
- RP-D04 uses the C-version of UE-ERMSG file, while RP-D03 uses the B-version (which is not included on the RP diskettes).
- RP-D04 handles LOOKUP tables and flat input tables written in NORTEXT 8-bit format properly.
- The ISAM semaphore number used by RP-D04 may be defined in SW-CONFIG:SYMB file.
- RP-START may be started with library and report name given, like this:
@RP-START <library name>,<report name>↓ RP-START will then ask the user questions for the report and allow batch or interactive production. NOTE: to be able to have more than 6-7 reports ordered for batch production concurrently, see section "Enlarging the batch input buffer".

3 PREREQUISITES

- To install RP for ND-500 with SIBAS interface, SINTRAN version K or later is recommended (see section 'SIBAS interface with SINTRAN I or J'). If you don't need the SIBAS interface, SINTRAN version I or later will do.
- To read data from local SIBAS databases, RP for ND-500 version D requires that SIBAS version D or later is installed on your computer.
- To read from remote SIBAS databases, a SIBAS-BACKEND version that corresponds to your SIBAS version must be installed.

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- To read from NOTIS-IR databases, NOTIS-IR version G or later must be installed. The H version of NOTIS-IR is required to get an integrated link between NOTIS-IR and RP for ND-500.
- To use the 'Automatic printout' facility, NOTIS-WP version N or later must be installed (including the WP-PRINT program). To print box graphics, accent characters etc. properly, NOTIS-WP version N is also required. For reports with ASCII input only, NOTIS-WP version M may be used for printout.

4 MODIFICATIONS

4.1 NEW FEATURES

- NOTIS-IR input.
- NOTIS-DM (Document Manager) input.
- NOTIS-DS input and output.
- Input and output data in NOTIS Standard Text Format (S-format)
- Handling of 'wide-columns' in SIBAS/R databases (text documents stored in SIBAS).
- 'Automatic printout' facility using WP-PRINT program.
- Nationally dependent sort sequence.
- Named Expressions with many branches.
- Handling of repeated numeric columns (arrays), cross-index totalling.
- Pre-computed totals, allowing %-of-total to be printed anywhere in report.
- RP-START program for easy report selection and production. May be started with library and report name given (from D04), to input parameters for a certain report. Allows batch production.

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4.2 IMPROVED PERFORMANCE

- RP for ND-500 version D is able to handle report definitions that are 2-3 times as complex as the C version.

NOTE: report definitions defined with 210528D NOTIS-RG for ND-500 may be too complex to be produced with the ND-100 version of RP (211065D RP for ND-100). Report definitions for use on ND-100 computers should thus be developed with the ND-100 version of NOTIS-RG.

- The maximum number of input tables per report has been increased from 10 to 30.

5 INSTALLATION PROCEDURE

RP for ND-500 (English version) is supplied on two double-sided double-density diskettes, with directory names 211066D<rev>-EN-01D and 211066D<rev>-EN-02D. For the Norwegian version, the corresponding directory names are 211066D<rev>-NO-01D and 211066D<rev>-NO-02D. In the rest of this document, -EN- is used as language code. You should replace -EN- with the language code of your ordered version.

If you already have RP version C on your computer, you may delete this program before installing RP for ND-500 version D. The final section describes how this may be done.

Note that RP for ND-500 is a prerequisite for 210528 NOTIS-RG. If you have ordered NOTIS-RG, both NOTIS-RG and RP for ND-500 should be installed before NOTIS-RG may be used.

An installation program is supplied with RP for ND-500, to make the installation easier. The RP installation also installs the two utility programs RP-START and RG-SERVICE (RG-SERVICE only if you have SIBAS). These programs are described in separate sections.

The procedure to install RP for ND-500 version D is as follows:

- 1) Log in as SINTRAN user SYSTEM.
- 2) Make sure that the required number of pages and files is free on user area SYSTEM (prerequisites, page 1).
- 3) Find a user area where the RP domains should be installed (DOMAIN-USER by default). In the rest of this document this user area is referred to as <domain-user>. The installation program will ask for the name of this user area later. The user area must have some free pages (see prerequisites, page 1).

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- 4) If you want to install RP for ND-500 with SIBAS interface, find the name of the user area where you have installed SIBAS (usually SIB-500). The installation program will ask for this name later. The program will also ask which version of SIBAS should be used if you have more than one version of SIBAS installed on the specified user. (Your SIBAS version may be found by checking the version of the SIBAS library segment, which is equal to the version of file (SIB-500)SIB-LIBRARY-<ver>:PSEG.)

NOTE: if you have SIBAS/R version A, the version should be specified as "A" (not "R").

- 5) Insert the diskette 211066D<rev>-EN-01 in your diskette station (211066D<rev>-NO-01 for Norwegian version).

- 6) Enter this directory by typing:
@ENTER-DIR,,FLOPPY-D-1,<unit>↓

- 7) Start the installation program by typing:
@(211066:FLOPPY-USER)INST-RP↓

The installation program will then guide you through the installation. You are asked to insert the other diskette when required.

To check that the installation was successful, you may inspect two log files.

(<domain-user>)RP-500-LOAD-EN-D:LOG shows how RP is linked to SIBAS.
(SYSTEM)RP-500-DUMP-EN-D:LOG shows how RP, RP-START and RG-SERVICE are defined as standard domains.

You should delete these log files when a successful installation is finished.

The installation leaves a temporary file on user area SYSTEM, (SYSTEM)INSTALL-RP-D:TEMP. This file should be deleted.

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6 STARTING RP for ND-500

RP is installed as a local domain on <domain-user>. In addition, it is defined as a standard domain.

This allows you to start RP for ND-500 this way:

```
@NOTIS-RP-EN-D↓
```

To start RP for ND-500 as a local domain, type:

```
@ND-500 (<domain-user>)NOTIS-RP-EN-D↓
```

7 SIBAS interface with SINTRAN version I or J

If you install RP with SIBAS interface and your SINTRAN version is earlier than K, NOTIS-RP-EN-D must not be defined as standard domain. In that case, the error message 'Database not active' appears when RP tries to access SIBAS databases. NOTIS-RP-EN-D may be deleted as a standard domain after the installation by using the ND-500 monitor:

```
@ND-500-MONITOR↓
N500:DELETE-STANDARD-DOMAIN NOTIS-RP-EN-D↓
```

In this case, edit the file (<domain-user>)RP-500-DUMP-EN-D:MODE (see next section) so that NOTIS-RP-EN-D is not defined as a standard domain when your computer is restarted.

The NOTIS-RP program name must be defined in the SW-CONFIG:SYMB configuration file in order to make the NOTIS-RG / RP connection work.

```
*
* SW-CONFIG:SYMB file
*
.....
.....
SYSTEM-NAME : NOTIS-RG
.....
  RP-NAME-EN = ND-500 (<DOMAIN-USER>)N-RP-EN-D
```

Note the space between "ND-500" and "(<DOMAIN-USER>)" ! Only the 21 first characters of the defined program name are significant. Abbreviate the name of <domain-user> if required.

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8 Re-definition from DUMP-REENTRANT file

The installation program makes a :MODE file that should later be run to re-define NOTIS-RP, RP-START and RG-SERVICE as standard domains. Remember to update the DUMP-REENTRANT (or HENT-MODE) file with this command:

```
@MODE (<domain-user>)RP-500-DUMP-EN-D:MODE,,↓
```

9 Re-installation of RP for ND-500

Re-installation of RP is not normally required after a restart of the computer.

However, if you install a new SIBAS version on your ND-500 computer, we recommend that you re-install RP as a ND-500 domain afterwards. Please install once more from original RP diskettes using the installation program.

As an alternative to running the installation program, you may re-install the NOTIS-RP-EN-D domain from the diskette 'by hand':

- 1) Delete NOTIS-RP-EN-D as standard domain.
- 2) Insert the diskette 211066D<rev>-EN-01 in your diskette station.
- 3) Enter this directory by typing:

```
@ENTER-DIR,,FLOPPY-D-1,<device>↓
```
- 4) Log in as the SINTRAN user where you installed RP for ND-500.
- 5) Copy the NOTIS-RP-EN-D domain using linkage-loader:

```
@LINKAGE-LOADER↓
N11:COPY-DOMAIN↓
Source-domain: (211066D:FLOPPY-USER)NOTIS-RP-EN-D↓
Destination-domain: NOTIS-RP-EN-D↓
N11:EXIT↓
```
- 6) If necessary, edit the file RP-500-LOAD-EN-D:MODE so that NOTIS-RP-EN-D is linked to your new SIBAS segments.
- 7) Run the mode file

```
@MODE (<domain-user>)RP-500-LOAD-EN-D:MODE,,↓
```
- 8) Define NOTIS-RP-EN-D as a standard domain.

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10 The SW-CONFIG:SYMB file

The SW-CONFIG:SYMB file is a configuration and parameter file used by all DIALOGUE products. In this file, database and system parameters may be defined. How to use this file with NOTIS-RG and RP is described in the NOTIS-RG Reference Manual. The RP diskettes include a file named as RG-CONFIG-<lang>:SYMB, which contains all relevant NOTIS-RG parameters. This file may be edited and appended to your SW-CONFIG:SYMB file.

NOTIS-RG and RP may be used without a SW-CONFIG:SYMB file, but if you use RP with SIBAS databases a SW-CONFIG:SYMB file should exist. If you use RP with S-format input, the name of the sort sequence file should be defined in the SW-CONFIG:SYMB file (see section "The sort sequence file"). If you are running ISAM multiuser and have changed the ISAM device/semaphore number, this must also be defined in SW-CONFIG:SYMB.

Note that if the SW-CONFIG:SYMB file is created on user area ND-OPERATIONS, it will be a global file for the RG users on your computer. This file is overruled if you have a local SW-CONFIG:SYMB file on your own (default) user area.

11 ISAM device

If you are running RP with ISAM input tables, please note that the ISAM version K used in RP-D uses a semaphore or an internal device to ensure safe multi-user operation. By default, semaphore number 300B is used. The device/semaphore number must be defined in SW-CONFIG:SYMB file if a device different from 300B should be used:

```
*
* SW-CONFIG:SYMB file
*
.....
.....
SYSTEM-NAME : NOTIS-RG
.....
  ISAM-DEVICE = 303B
```

NOTE: If the semaphore used by ISAM is reserved for a different purpose, RP will 'hang' when trying to run reports with ISAM input. Use command @LIST-DEVICE <semaphore number> to find a free device or semaphore number (in the range 200B to 377B). Define this free number as ISAM-DEVICE in SW-CONFIG:SYMB.

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12 The sort sequence file

The ND Standard Text Format (S-format) may contain accent characters and special national characters. To sort S-format input data correctly, a sort sequence must be defined. The file SM-STD-EN:ALPH found on diskette 211066D-EN-01D defines a standard English sort sequence for all relevant characters.

Note that different language versions of RP are supplied with different sort sequence files. For example, the Norwegian sort sequence file defines that "AA" should be sorted as "Å".

If you intend to use RP with S-format input, please copy the SM-STD-EN:ALPH file to user area SYSTEM. The name of this file must be defined in the SORT form in NOTIS-RG for all reports that need a sort sequence file. If the name of the sort sequence file is defined in SW-CONFIG:SYMB file, NOTIS-RG will use the sort sequence file automatically when new reports are defined.

```

*
* SW-CONFIG:SYMB file
*
.....
.....
SYSTEM-NAME : NOTIS-RG
      ....
      SORT-SEQ-TABLE-EN = SM-STD-EN:ALPH

```

13 The RP-START program

The RP-START program is a program to select and order NOTIS-RG reports from your report definition libraries. It also allows you to run the reports in batch. The program is documented in RP-START Introduction, ND-63.026 EN.

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14 Enlarging the batch input buffer

When several reports (6-7) are ordered for batch execution from the RP-START program, the batch input buffer gets full. The default size of this buffer is 600 bytes OCTAL (=384 bytes). To enlarge the batch input buffer do the following:

- 1) Find the number of the batch used by RP-START. The buffer to be enlarged must correspond with the batch number specified in the SW-CONFIG:SYMB-file (parameter RP-BATCH, by default 1).
- 2) Compute the logical unit number, which is the device number for the batch processor + 1 : 670 + 1 for batch no. 1, 672 + 1 for batch no. 2 etc.
- 3) Decide the new buffer size in words OCTAL (=number of bytes/2) If you want to double the size, give <new size> = 600B. To get a buffer four times as large, give <new size> = 1400B.
- 4) Change the buffer size using SINTRAN-SERVICE-PROGRAM.

```
@SINTRAN-SERVICE-PROGRAM↓
*CHANGE-BUFFER-SIZE↓
LOGICAL UNIT NUMBER (OCT): <log. unit number>↓
INPUT OR OUTPUT ? I↓
BUFFER SIZE IN WORDS (OCT): <new size>↓
IMAGE ? YES↓
SAVE-AREA ? NO↓
*EXIT↓
```
- 5) The modification will not take effect until the system has been restarted. After a cold-start the modification has to be done over again.
- 6) To find the current size of the batch input buffer:

```
@SINTRAN-SERVICE-PROGRAM↓
*CHANGE-DATA↓
LOGICAL UNIT NUMBER (OCT): <log. unit. no>↓
INPUT OR OUTPUT ? I↓
MEMORY ? YES↓
IMAGE ? YES↓
SAVE-AREA ? NO↓
MEMORY IMAGE
MAX/ 600 600 .
*EXIT↓
```

The number printed after MAX/ denotes the buffer size in bytes (OCTAL).

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15 The RG-SERVICE program

The RG-SERVICE program may be used to set the time-stamp for SIBAS table definitions to today's date. The program is intended for use after a SIBAS database has been initialized, but not redefined. After such an initialization, the NOTIS-RG table definitions for the database seem out of date - even though they are correct. RG-SERVICE solves this problem by changing the table definitions' time stamp.

The program is copied to your computer only if you install RP with SIBAS interface.

16 THE TERMINAL DESCRIPTION FILE

If you already have a version of the terminal description file DDBTABLES-G:VTM, the file DDBTABLES-G02:VTM will be copied to a file named DDBTABLES-G02:NEW (on user area SYSTEM).

If you want to use this new file, please delete the old file DDBTABLES-G:VTM, and rename the new file by typing:

```
@DELETE-FILE (SYSTEM)DDBTABLES-G:VTM↓
@RENAME-FILE (SYSTEM)DDBTABLES-G02:NEW :VTM↓
```

This is only required if your RP does not work satisfactorily with your current DDBTABLES-G:VTM file.

17 THE ERROR MESSAGE FILE

If you already have a version of the error message file UE-ERMSG-EN-C:ERR, the file UE-ERMSG-EN-C05:ERR will be copied to a file named UE-ERMSG-EN-C05:NEW (on user area SYSTEM).

If you want to use this new file, please delete the old file UE-ERMSG-EN-C:ERR, and rename the new file by typing:

```
@DELETE-FILE (SYSTEM)UE-ERMSG-EN-C:ERR↓
@RENAME-FILE (SYSTEM)UE-ERMSG-EN-C05:NEW :ERR↓
```

The C05 revision of this file contains some RP error messages that are useful if RP is run from an UE menu.

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18 Delete RP for ND-500 version C

It is possible to have both version C and D of RP installed on the same computer. However, we recommend that you only have the latest version installed.

The list below shows how to delete RP version C. Language code -NO- should be used instead of -EN- for Norwegian version.

- 1) Log in as the SINTRAN user where you installed RP for ND-500 version C (usually NOTIS). The name of this user may be found in your DUMP-REENTRANT (or HENT-MODE) file.
- 2) Delete the files NOTIS-RP1-EN-C:NRF to NOTIS-RP9-EN-C:NRF.
- 3) Delete the file RP-500-DUMP-C:MODE (and possibly :LOG).
- 4) Delete the file RP-500-LOAD-C:MODE (and possibly :LOG).
- 5) Delete the file NOTIS-RPD-EN-C:PROG (if existing).
- 6) Log in as SINTRAN user area SYSTEM.
- 7) If NOTIS-RP-EN-C is defined as standard domain, give the following ND-500-MONITOR commands:

```
@ND-500-MONITOR↓  
N500:DELETE-STANDARD-DOMAIN NOTIS-RP-EN-C↓  
N500:EXIT↓
```

Otherwise, delete the NOTIS-RP dummy ND-100 program this way:

```
@DELETE-REENTRANT NOTIS-RP-EN-C↓
```

- 8) To delete the NOTIS-RP-EN-C domain, log in as SINTRAN user NOTIS and give the following LINKAGE-LOADER commands:

```
@LINKAGE-LOADER↓  
N11:RELEASE-DOMAIN NOTIS-RP-EN-C↓  
N11:DELETE-DOMAIN NOTIS-RP-EN-C↓  
N11:EXIT↓
```