CSI

CUSTOMER SUPPORT INFORMATION

MAY 1993

Comma

Comma Data Service AS is
Scandinavia's leading independent service company.
Extensive, in-depth know-how and knowledge
of its own and standard IT products
enable the company to meet all
its customer's requirements.

Comma Data Service AS
supplies quality solutions for
maintenance and business administration,
providing services and producs based on
IT systems which operate profitable
without any associated problems.

The organisation has 560 employees in 35 offices throughout
Scandinavia with its headoffice in Oslo.

To obtain the current patch diskette, call your local Service Centre:

Norway (Oslo):
      Telephone: 050 30 3 95   (then dial 0 to get the switchboard operator)
      Telefax: (22) 62 75 10

Denmark (Ballerup):
      Telephone: 44 68 12 00
      Telefax: 44 68 06 14

Sweden (Upplands Väsby):
      Telephone: (08) 590 98506
      Telefax: (08) 590 86297

Finland (Helsinki):
      Telephone: (0) 701 2911
      Telefax: (0) 701 2721

Customer Support Information

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Software Modification Report

Program: Backup Manager

Title: Implementing corrections - Backup Manager Operator version B05 loaded in NEW domain format.

The following procedure should be followed to implement all available Backup Manager revision B05 patches:

* Log in as SINTRAN user area BACKUP-MANAGER and verify that you are about to run the correct version of the patchfile:

* If user area BACKUP-MANAGER contains the file BM-OPERATOR-B05:DOM use version (report) 2; if the file BM-OPERAT-EN-B05:PSEG is present, run version (report) 3 (see next page).

* Ensure that user SYSTEM is friend of user area BACKUP-MANAGER with access RWA, and that the files listed below have friend access RWA.

  ```
  (BACKUP-MANAGER)BM-OPERAT-B05:DOM
  (BACKUP-MANAGER)BM-DEFINI-B05:DOM
  (BACKUP-MANAGER)BM-SCHED-B05:DOM
  (BACKUP-MANAGER)BM-FILERE-05:DOM
  (BACKUP-MANAGER)BM-SERVER-B05:PROG
  ```

* Insert the patch diskette in the floppy drive and enter the directory on the floppy:
  `@ENTER-DIRECTORY,250379,<floppy-controller>,<floppy unit>`

* If BM-Operator is linked against SIBAS to perform backup of SIBAS databases, the comment commands (@CC) muMrface patch (patch 012) to activate it.

* Log in as SINTRAN user area SYSTEM and run the mode file:
  `@Mode,  (250379:SYSTEM)N-211226B05-2:SYMB,"BM-PATCH:OUT"` ·

* Release the directory and remove the diskette:
  `@RELEASE-DIRECTORY,250379`

* Check the output file to verify that the patching was completed.

Having run the Backup Manager B05 patch file on a system, the 'BM patch level' will be displayed in the lowest status line in the initial screen picture of BM-Operator:

Patch level: 027 - 04.03.93 / SIBAS : 022

The patch level gives the highest report (patch) number implemented.

The current patch level available is 27, containing patches: 4, 5, 6D, 7, 8B, 9B, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 25, 26, 27 .

Software Modification Report

Program: Backup Manager

Title: Implementing corrections - Backup Manager Operator version B05 loaded in OLD domain format.

The following procedure should be followed to implement all available Backup Manager revision B05 patches:

* Log in as SINTRAN user area BACKUP-MANAGER and verify that you are about to run the correct version of the patchfile:

* If user area BACKUP-MANAGER contains the file BM-OPERATOR-EN-B05:PSEG use version (report) 3; if the file BM-OPERAT-B05:DOM is present, run version (report) 2 (see previous page).

* Ensure that user SYSTEM is friend of user area BACKUP-MANAGER with access RWA, and that the files listed below have friend access RWA.

```
(BACKUP-MANAGER)DESCRIPTION-FILE:DESC
(BACKUP-MANAGER)BM-OPERAT-EN-B05:PSEG
(BACKUP-MANAGER)BM-OPERAT-EN-B05:DSEG
(BACKUP-MANAGER)BM-DEFINI-B05:DOM
(BACKUP-MANAGER)BM-SCHED-B05:DOM
(BACKUP-MANAGER)BM-FILERE-05:DOM
(BACKUP-MANAGER)BM-SERVER-B05:PROG
```

* Insert the patch diskette in the floppy drive and enter the directory on the floppy:
  `@ENTER-DIRECTORY,250379,<floppy-controller>,<floppy unit>`

* Log in as SINTRAN user area SYSTEM and run the mode file:
  `@Mode, (250379:SYSTEM)N-211226B05-3:SYMB,"BM-PATCH:OUT"`

* Release the directory and remove the diskette:
  `@RELEASE-DIRECTORY,250379`

* Check the output file to verify that the patching was completed.

Having run the Backup Manager B05 patch file on a system, the 'BM patch level' will be displayed in the lowest status line in the initial screen picture of BM-Operator:

`Patch level: 027 - 04.03.93 / SIBAS : 012`

The patch level gives the highest report (patch) number implemented.

The current patch level available is 27, containing patches: 4, 5, 6D, 7, 8B, 9B, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 23, 25, 26, 27.

Software Information Report

Program: BM-Operator

Title: No such user name in main No such user in main directory

An attempt to copy files from disk on the local system to disk on a remote system may give the following error:

```
000047B:  No such user name in main directory.
REMOTE.(PACK-FIVE:SUSAN)X-MAS-SPEACH:TEXT;1'
From routine: CheckIfExi4
```

This occurs in spite of the fact that the remote user (SUSAN in the above example) exists on a main directory on the remote system.

The user name which is missing on the remote system in this case is the user under which the copy operation is run from i.e. the logged in user area.

Software Error Report

Program: BM-Operator

Title: During Database backup, only the R-log file(s) is (are) copied and not the database itself.

Symptom: Immediately after backup of the R-log file(s), BM-Op says:

'Database (<user>)<db name> copied Time used: hh: mm: ss: '

without having copied the db.

Reason: If the db is set unavailable before the backup operation is started, BM-Op will not get the neccessary db information due to an error in SIBRP and missing fault tolerance in BM.

Solution: This error can be corrected by installing the patches supplied on the current patch diskette. These patches contain corrections to all known errors in Backup Manager B05. The installation procedure is found on report 2P. In addition to this patch, patch 50 for SIBRP-B06 must be installed. This patch is found in SIS/200001B06/50.

The patch is not actual if BM-Operator is linked against SIBAS/R-A or SIBAS-F (BM-Operator in old domain format).

Software Error Report

Program: BMSERV

Title: Scheduled entry (BM-Scheduler) is not executed, but entry is deleted / updated (if periodic) in scheduler queue.

Symptom: Message on error device at startup time:

```
YYYY-MM-DD HH: MM: SS Backup Manager Scheduler
               (nothing more)
```

Reason: Insufficient test if the actual batch is available.

Solution: This error can be corrected by installing the patches supplied on the current patch diskette. These patches contain corrections to all known errors in Backup Manager B05. The installation procedure is found on reports 2P and 3N.

Software Information Report

Program: BM-Operator

Title: Setting tape density

In connection with the newly released EXABYTE 8500 (5 Gb GTS) it may be necessary to set the density code to be used for the write operations.

To do this the Backup Manager B05 command SERVICES/TAPE-OPERATIONS/ SET-TAPE-DENSITY has to be used.

This command is also available from batch/mode jobs by issuing each of the 5 input parameters of the SET-TAPE-DENSITY command on separate lines in the input file.

Example :

To set high density and perform an image-backup defined in the set TOTAL-BACKUP, the batch input file should look like:

```
@ENTER,SYSTEM,password,proj.password,-1
@BM-OPERATOR
SET-TAPE-DENSITY % BM-Operator command
   % 1. parameter : Computer name
GTS % 2. --- " --- : Device name
0 % 3. --- " --- : Device unit
   % 4. --- " --- : Device subunit
0 % 5. --- " --- : Density (0=high, 20=low)
BACKUP-START % BM-Operator command
TOTAL-BACKUP % 1. --- " --- : Set name
AUTOMATIC % 2. --- " --- : Execution method
EXIT % BM-Operator command
@CC Finished !
```

Software Error Report

Program: BM-Operator

Title: Objects not found when listing or restoring from volume.

Symptom: Searched objects not found on volume
            (End of volume detected)

Reason: Code error.

Solution: This error can be corrected by installing the patches supplied on the current patch diskette. These patches contain corrections to all known errors in Backup Manager B05. The installation procedure is found on reports 21 and 22.

Software Error Report

Program: BM-Operator

Title: Various problems if more than 5 'IMAGE-NO-COMPARE' - files are defined in the
BM-PARAMETER file.

Symptom: On Error device :
```
'Wrong password - disconnected' when DMAServer is started
```

Reason: Code error

Solution: This error can be corrected by installing the patches supplied on the current patch dis-
kette. These patches contain corrections to all known errors in Backup Manager B05.
The installation procedure is found in reports 21 and 22.

Software Information Report

Program: BM-Operator

Title: Corrupted program files for BM-Operator in OLD domain format delivered with ES-platform C01 (domain UNDEF-BM-OP-B05).

A set of non-corrupted domain files may be requested. This is only necessary if BM-Operator is to be loaded in OLD domain format in order to run integrated SIBAS-F database backups.

Software Information Report

Program: 211154 E02

Title: New release

This product allows Terminal emulation and file access between an ND machine and remote systems running TCP/IP protocols over Ethernet.

This product can run over COSMOS TCP/IP Gateway in the Ethernet II controller and over TCP/IP Basic Module for ND-5000 in the Ethernet III controller.

The Telnet Client in COSMOS FTP/Telnet Clients is compatible with Telnetd in Berkeley Unix 4.3. It is not compatible with Telnetd in Berkeley Unix 4.2.

1 - Delivery

The FTP client is now delivered in both 100 and 500(0) versions.

The FTP client now allows files with "holes", such as :DOM or 2-bank :PROG files, to be transfered.

2 - New functions / Commands

The FTP client is now delivered as both a ND-100 :PROG and a ND-500 :DOM file. You may choose to install either one (or both).

The FTP client now supports transfer Mode COMPRESS in addition to STREAM. Compress is particularly well suited for sending binary files over slow, X.25-based IP-routers.

The FTP client now supports transfer Struct's PAGE and RECORD in addition to FILE. Page is usefull when transferring binary files with "holes" between two Sintran systems. Record is best suited for fixed-length record-structured files.

The FTP client now supports transfer Type LOCAL 32/16 in addition to ASCII, BINARY (ie. Image) and TENEX (ie. Local 8). Type Local 32 is usefull, together with Struct Page (and Mode Compress), when transferring bin ary files with "holes" between two (possibly distant) Sintran systems. Note that Page/Local 32 effectively leads to a destination file that is an exact replica of the source, while File/Binary (which must be use d if the client is a non-Sintran system) leads to a destination file where pages missing in the source file have been completely null-expanded.

The new FTP client command CONV toggles local file name conversion according to the file-naming syntax used by the current SITE type as set. Note that this is a quite different functionality from that given by the Convert- Filename command present in previous versions of this product. (See SITE below.)

The new FTP client command SITE enables you to inspect the remote servers site-dependant variables and current server session status, provided the server supports the FTP SITE and STAT commands; and/or force the cl ient to accept and use the remote file-naming syntax of the server provided this is either a Unix, MS-DOS or VMS site. The command "Site Unix,yes" will thus give you approximately the same functionality as the "Convert-Filename" command present in previous versions of this product.

3 - Changed functions/commands

The FTP client command LCD now allows you to change local working directory (ie. Sintran user-area):

file-access will equal that of the user-area current when entering the FTP-client, called home directory. On exit you will be back at the home directory, and all Sintran commands done from the client will b y default work towards the home directory.

The FTP client commands MGET and MPUT now allows the user to modify each destination file name proposed by the client provided that PROMPTing is turned on.

Refer to the Cosmos Telnet/FTP Client User Guide for minor changes to some other FTP client commands.

4 - Removed functions/commands

The RSH client delivered with version D01 of this product has been removed. A similar client is included with the new Sintran III Remote Shell Utility product.

The FTP client command "Convert-Filename", present in previous versions of this product, has been removed. Use The SITE command (see "New functions/commands" above) to achieve approximately the same functionality.

The FTP client commands "Form", "MLS" and "MDIR", dummy in previous versions, has been removed.

5 - Other modifications/Nice to have

The Telnet client can now be started on any Tcp-device provided connection to the server is done on the command line, and the optional <tcp-device> parameter is specified:
`@telnet-client server-hostname <tcp-device <remote-port>>`

The Sintran/Unix file-name conversion rules used by the FTP client has been slightly changed. The most noteworthy change is that the client will limit any proposed unix file-name to 14 characters. All "cuts" needed to make SINTRAN files fit into this scheme, are done on the file-name part, while file-type remains un-abridged.

6- Error corrected

When in local echo modus, the Telnet client will now process Line-feed after a received Carriage-return correctly.

The Telnet client will now handle Wont-option processing correct.

The Telnet client will show the server's IP-address at connect if the server's host or domain name is unknown.

Software Information Report

Program: SIBAS-Manager

Title: Revision A06 - corrected and not corrected errors.

Errors corrected:

* SIBAS-MANAGER did not handle ACCOUNTING in SINTRAN. Unable to start SM-server and databases, and to consistency check databases.

* SIBAS-MANAGER did not accept a database definition as the last entry in SW-CONFIG ("Missing parameter" on the error-device).

* 'Prot.viol. at addr 1'763666B' when marking several databases and executing Stop-DB. Auto-start of all databases was initiated.

* SM reported fatal error (23245b: Initialization error) when running Consistency check if database files larger than 65536 SIBAS pages.

* Database did not start after Consistency-check if the database was open when stopped (Force-close was done).

* SM-SERVER did not handle DBA-name SIBAS-MANAGER defined differently (with/without hyphen) in UE and SW-CONFIG.

* CLOSE-SESSION and LOGOUT-USER did not always work on remote machines if several DB-computers defined.

* SM-TRMH unable to find databases defined without USER-AREA in SW-? CONFIG.

* Mixed Norwegian and English text in the Norwegian version of the SM-SERVER in line-mode.

* SM-SERVER "remembered" previous DB-users and went on sending messages to these as long as the server was running.

* It is now possible to switch off checkpointing (CHECKPOINT INTERVAL = 0).

Errors corrected on tp-server platform C01:

* User status returns <Unknown user name> if UE username consists of less than 8 characters. - Patch nos. 3 and 4.

* Error in R-log monitor. Overflow in calculation of total R-log size if total R-log › 32767. Database was stopped and SM-EVENTS showed that the R-log was full. - Patch no. 5.

Errors corrected on tp-server platform C02:

* Errors when running Consistency check as a batch job on a database located on a re-named mirror-disc. ("This database is not known SIBAS Manager"). - Patch no. 2.

Errors known, but not corrected:

* DB-name and DB-owner are sometimes missing in the messages on the SM-EVENTS file.

Software Error Report

Program: SM-SERVER-A06

Title: Error when running Consistency Check (batch) on a renamed DB-user and -directory.

Symptom: "This database is not known by SIBAS Manager."

Reason: The server checks if DB user-name exists in SW-CONFIG.
Should not be done if Fast Verify is not run interactively.

Solution: This error can be corrected by installing a patch supplied on the current patch diskette. The following procedure is recommended:

- Log in as SINTRAN user SYSTEM and stop the SM-SERVER.

- Insert the patch diskette in the floppy drive and enter the directory on the floppy:
  `@ENTER-DIRECTORY,250379,<floppy contr.>,<floppy unit>`

- Log in as SINTRAN user SIBR-B and run the mode file (ignore any 'UNKNOWN BREAK' or "BEYOND END OF FILE" messages):
  `@MODE,(250379:SYSTEM)N-211455A-2:SYMB,,,,,`

- Relase the directory and remove the diskette:
  `@RELEASE-DIRECTORY,250379`

- Return to SINTRAN user SYSTEM and start the SM-SERVER.

Software Error Report

Program: SM-SERVER-A06

Title: <Unknown user name> for local users.

Symptom: User statistics in SM-OPERATOR shows <Unknown user name> for local users with UE-user names < 8 characters.

Reason: Incorrect test on byte string.

Solution: This error can be corrected by installing a patch supplied on the current patch diskette. The following procedure is recommended:

* Log in as SINTRAN user SYSTEM and stop the SM-SERVER.

* Insert the patch diskette in the floppy drive and enter the directory on the floppy:
  `@ENTER-DIRECTORY,250379,<floppy contr.>,<floppy unit>`

* Log in as SINTRAN user SIBR-B and run the mode file (ignore any 'UNKNOWN BREAK' or "BEYOND END OF FILE" messages):
  `@MODE,(250379:SYSTEM)N-211455A-3:SYMB,,,,,`

* Relese the directory and remove the diskette:
  `@RELEASE-DIRECTORY,250379`

* Return to SINTRAN user SYSTEM and start the SM-SERVER.

Software Error Report

Program: SM-SERVER-A06

Title: <Unknown user name> for remote users.

Symptom: User statistics in SM-OPERATOR shows <Unknown user name> for some remote users.

Reason: Incorrect test on byte string.

Solution: This error can be corrected by installing a patch supplied on the current patch diskette. The following procedure is recommended:

* Log in as SINTRAN user SYSTEM and stop the SM-SERVER.
* Insert the patch diskette in the floppy drive and enter the directory on the floppy:
    ```
    @ENTER-DIRECTORY,250379,<floppy contr.>,<floppy unit>
    ```

* Log in as SINTRAN user SIBR-B and run the mode file (ignore any 'UNKNOWN BREAK' or "BEYOND END OF FILE" messages):
    ```
    @MODE,(250379:SYSTEM)N-211455A-4:SYMB,,,,,
    ```

* Relase the directory and remove the diskette:
    ```
    @RELEASE-DIRECTORY,250379
    ```

* Return to SINTRAN user SYSTEM and start the SM-SERVER.

Software Error Report

Program: SM-SERVER-A06

Title: Database is stopped for no apparent reason.

Symptom: SM-server claims that R-log limits are exceeded while they are not. Only if multiple logs and where total R-log size is > 65536 pages.

Reason: Error in the calculation of unused R-log space.

Solution: This error can be corrected by installing a patch supplied on the current patch diskette.

The following procedure is recommended:

* Log in as SINTRAN user SYSTEM and stop the SM-SERVER.

* Insert the patch diskette in the floppy drive and enter the directory on the floppy:
  `@ENTER-DIRECTORY,250379,<floppy contr.>,<floppy unit>`

* Log in as SINTRAN user SIBR-B and run the mode file (ignore any 'UNKNOWN BREAK' or "BEYOND END OF FILE" messages):
  `@MODE, (250379:SYSTEM)N-211455A-5:SYMB,,,,,`

* Relase the directory and remove the diskette:
  `@RELEASE-DIRECTORY,250379`

* Return to SINTRAN user SYSTEM and start the SM-SERVER.

Software Error Report

Program: LIBR - Nucleus

Title: Error in Sibas call RELDV (-2), release all Sibas connections and communication resources.

Symptom: One or more TCP/IP connections are not disconnected, but left in state Established or FIN_W2.
For more information see report no 67.

Reason: Error in internal Sibas library clean-up routine.

Solution: This error can be corrected by installing a patch supplied on the current patch diskette.

The following procedure is recommended:

* Log in as SINTRAN user area SYSTEM and set all SIBAS proceses in passive state.

* Stop all applications using SIBR-LIBRARY-B.

* Delete all standard domains which are linked to SIBR-LIBRARY-B.

* Insert the patch diskette in the floppy drive and enter the directory on the floppy:
  `@ENTER-DIRECTORY,250379,<floppy controller>,<floppy unit>`

* Log in as SINTRAN user area SIBR-B and run the mode file (ignore any "UNKNOWN BREAK" or "BEYOND END-OF-FILE" messages):
  `@MODE,(250379:SYSTEM)N-220001B05-68:SYMB,,`

* Release the directory and remove the diskette:
  `@RELEASE-DIRECTORY,250379`

* Log in as SINTRAN user area SYSTEM and define the standard domains you deleted again.

* Start your databases again.

Software Error Report

Program: DML

Title: Error in Sibas call SUEND with rollback.

Symptom: Page link on system tables and/or indexes may be destroyd.

Reason: Index pages allocated inside the transaction was not properly rolled-back.

Solution: This error can be corrected by installing a patch supplied on the current patch diskette.
              The following procedure is recommended:

* Log in as SINTRAN user area SYSTEM and set all SIBAS processes in passive state.

* Insert the patch diskette in the floppy drive and enter the directory on the floppy:
  `@ENTER-DIRECTORY,250379,<floppy controller>,<floppy unit>`

* Log in as SINTRAN user area SIBR-B and run the mode file (ignore any "UNKNOWN BREAK" messages):
  `@MODE, (250379:SYSTEM)N-220001B-80:SYMB,,`

* Release the directory and remove the diskette:
  `@RELEASE-DIRECTORY,250379`

* Log in as SINTRAN user area SYSTEM and start your databases again.

Software Error Report

Program: SERVICE

Title: Runflag is set to 000000B.

Symptom: The old runflag is lost if "set-sibas-(un)available" is executed directly after "Choose DB".

Reason: Sibr-service did not read the old runflag before the (un)available flag was set.

Solution: This error can be corrected by installing a patch supplied on the current patch diskette. The following procedure is recommended:

* Log in as SINTRAN user area SYSTEM and delete SIBR-SERVICE-B as a standard domain:
```
@ND-500-MON
DELETE-STANDARD-DOMAIN,SIBR-SERVICE-B
EXIT
```

* Insert the patch diskette in the floppy drive and enter the directory on the floppy:
```
@ENTER-DIRECTORY,250379,<floppy controller>,<floppy unit>
```

* Log in as SINTRAN user area SIBR-B and run the mode file (ignore any "UNKNOWN BREAK" or "BEYOND END-OF-FILE" messages):
```
@MODE,(250379:SYSTEM)N-220001B-08:SYMB,,
```

* Release the directory and remove the diskette:
```
@RELEASE-DIRECTORY,250379
```

* Log in as SINTRAN user area SYSTEM and define SIBR-SERVICE-B as a standard domain:
```
@ND-500-MON
DEFINE-STANDARD-DOMAIN,SIBR-SERVICE-B,(SIBR-B)SIBR-SERVICE-B
EXIT
```

Software Error Report

Program: DML

Title: No. of top-calls was not counted correctly for Sibas calls SGETN and SGIXN.

Symptom: Random values in "Sibas calls executed since start" in Sibas-service command databa-
se- status.

Reason: The number of top-calls retrieved was incorrect.

Solution: This error can be corrected by installing a patch supplied on the current patch diskette.
The following procedure is recommended:

* Log in as SINTRAN user area SYSTEM and set all SIBAS processes in passive state.

* Insert the patch diskette in the floppy drive and enter the directory on the floppy:
  `@ENTER-DIRECTORY,250379,<floppy controller>,<floppy unit>`

* Log in as SINTRAN user area SIBR-B and run the mode file (ignore any
  "UNKNOWN BREAK" messages):
  `@MODE,(250379:SYSTEM)N-220001B-10:SYMB,,`

* Release the directory and remove the diskette:
  `@RELEASE-DIRECTORY,250379`

* Log in as SINTRAN user area SYSTEM and start your databases again.

Software Error Report

Program: DML

Title: Some problems to start Sibas from passive state with fixed buffers (SW-CONFIG: FIX-BUFFERS = YES).

Symptom: Illegal operand value trap and Sibas internal error.

Reason: Missing initialization of disc buffer (BBLAN).

Solution: This error can be corrected by installing a patch supplied on the current patch diskette.

The following procedure is recommended:

* Log in as SINTRAN user area SYSTEM and set all SIBAS processes in passive state.

* Insert the patch diskette in the floppy drive and enter the directory on the floppy:
  `@ENTER-DIRECTORY,250379,<floppy controller>,<floppy unit>`

* Log in as SINTRAN user area SIBR-B and run the mode file (ignore any "UNKNOWN BREAK" messages):
  `@MODE,(250379:SYSTEM)N-220001B-17:SYMB,,`

* Release the directory and remove the diskette:
  `@RELEASE-DIRECTORY,250379`

* Log in as SINTRAN user area SYSTEM and start your databases again.

Software Error Report

Program: DRL

Title: Wrong number of bytes in the database schema file after initiation or redefinition.

Symptom: The database schema file got the same number of bytes as the last defined OS-file.

Reason: Wrong file information was used for the database schema file.

Solution: This error can be corrected by installing a patch supplied on the current patch diskette.

The following procedure is recommended:

* Log in as SINTRAN user area SYSTEM and delete SIBR-DRL-B as a standard domain:
```
@ND-500-MON
DELETE-STANDARD-DOMAIN, SIBR-DRL-B
EXIT
```

* Insert the patch diskette in the floppy drive and enter the directory on the floppy:
```
@ENTER-DIRECTORY,250379,<floppy controller>,<floppy unit>
```

* Log in as SINTRAN user area SIBR-B and run the mode file (ignore any "UNKNOWN BREAK" or "BEYOND END-OF-FILE" messages):
```
@MODE, (250379:SYSTEM) N-220001B-42:SYMB,,
```

* Release the directory and remove the diskette:
```
@RELEASE-DIRECTORY,250379
```

* Log in as SINTRAN user area SYSTEM and define SIBR-DRL-B as a standard domain:
```
@ND-500-MON
DEFINE-STANDARD-DOMAIN, SIBR-DRL-B, (SIBR-B) SIBR-DRL-B
EXIT
```

Software Error Report

Program: FAST

Title: Backup-Manager may report fatal error in consistency check when doing backup of many databases in one backup set.

Symptom: Error on the Sintran error device:
```
>>> Fatal error >>> Internal error - please contact ND!
Errorcode: 9890
```

Reason: No. of files and an internal table in SIBR-FAST is not cleared.

Solution: This error can be corrected by installing a patch supplied on the current patch diskette.

The following procedure is recommended:

* Log in as SINTRAN user area SYSTEM and delete all standard domains which are linked to SIBR-FAST-B.

* Stop SIBAS-MANAGER.

* Insert the patch diskette in the floppy drive and enter the directory on the floppy:
  ```
  @ENTER-DIRECTORY,250379,<floppy controller>,<floppy unit>
  ```

* Log in as SINTRAN user area SIBR-B and run the mode file (ignore any "UNKNOWN BREAK" or "BEYOND END-OF-FILE" messages):
  ```
  @MODE,(250379:SYSTEM)N-220001B-44:SYMB,,
  ```

* Release the directory and remove the diskette:
  ```
  @RELEASE-DIRECTORY,250379
  ```

* Log in as SINTRAN user area SYSTEM and define the standard domains you deleted again.

* Start SIBAS-MANAGER again.

Software Error Report

Program: DML

Title: Error in concurrency handling.

Symptom: Sibas internal error (running out of IBLAN).

Reason: Loop in one thread waiting for a reserved record (ZINCH).

Solution: This error can be corrected by installing a patch supplied on the current patch diskette.

The following procedure is recommended:

* Log in as SINTRAN user area SYSTEM and set all SIBAS processes in passive state.

* Insert the patch diskette in the floppy drive and enter the directory on the floppy:
  `@ENTER-DIRECTORY,250379,<floppy controller>,<floppy unit>`

* Log in as SINTRAN user area SIBR-B and run the mode file (ignore any "UNKNOWN BREAK" messages):
  `@MODE,(250379:SYSTEM)N-220001B-46:SYMB,,`

* Release the directory and remove the diskette:
  `@RELEASE-DIRECTORY,250379`

* Log in as SINTRAN user area SYSTEM and start your databases again.

Software Error Report

Program: DML

Title: Error in Sibas call SREMB.

Symptom: Sibas internal error.

Reason: Jump error when currency table became full.

Solution: This error can be corrected by installing a patch supplied on the current patch diskette.

The following procedure is recommended:

* Log in as SINTRAN user area SYSTEM and set all SIBAS processes in passive state.

* Insert the patch diskette in the floppy drive and enter the directory on the floppy:
`@ENTER-DIRECTORY,250379,<floppy controller>,<floppy unit>`

* Log in as SINTRAN user area SIBR-B and run the mode file (ignore any "UNKNOWN BREAK" messages):
`@MODE,(250379:SYSTEM)N-220001B-51:SYMB,,`

* Release the directory and remove the diskette:
`@RELEASE-DIRECTORY,250379`

* Log in as SINTRAN user area SYSTEM and start your databases again.

Software Error Report

Program: DML

Title: The Sibas process seems to be in passive state to Sibas-service or new applications.

Symptom: If a user is inside a transaction unit and Sibas have past the Bim trigger po int then Sibas will refuse all calls with status -128 (retry).

Reason: To restricted test on legal calls in this situation.

Solution: This error can be corrected by installing a patch supplied on the current patch diskette.

The following procedure is recommended:

* Log in as SINTRAN user area SYSTEM and set all SIBAS processes in passive state.

* Insert the patch diskette in the floppy drive and enter the directory on the floppy:
  `@ENTER-DIRECTORY,250379,<floppy controller>,<floppy unit>`

* Log in as SINTRAN user area SIBR-B and run the mode file (ignore any "UNKNOWN BREAK" messages):
  `@MODE,(250379:SYSTEM)N-220001B-54:SYMB,,`

* Release the directory and remove the diskette:
  `@RELEASE-DIRECTORY,250379`

* Log in as SINTRAN user area SYSTEM and start your databases again.

Software Error Report

Program: SERVICE

Title: Avoid Sibas-service to store context in UE database.

Symptom: The message "Context is not saved in UE base." is displayed when leaving Sibas-service.

Reason:

Solution: This error can be corrected by installing a patch supplied on the current patch diskette.

The following procedure is recommended:

* Log in as SINTRAN user area SYSTEM and delete SIBR-SERVICE-B as a standard domain:
```
@ND-500-MON
DELETE-STANDARD-DOMAIN,SIBR-SERVICE-B
EXIT
```

* Insert the patch diskette in the floppy drive and enter the directory on the floppy:
```
@ENTER-DIRECTORY,250379,<floppy controller>,<floppy unit>
```

* Log in as SINTRAN user area SIBR-B and run the mode file (ignore any "UNKNOWN BREAK" or "BEYOND END-OF-FILE" messages):
```
@MODE,(250379:SYSTEM)N-220001B-55:SYMB,,
```

* Release the directory and remove the diskette:
```
@RELEASE-DIRECTORY,250379
```

* Log in as SINTRAN user area SYSTEM and define SIBR-SERVICE-B as a standard domain:
```
@ND-500-MON
DEFINE-STANDARD-DOMAIN,SIBR-SERVICE-B,(SIBR-B)SIBR-SERVICE-B
EXIT
```

Software Error Report

Program: DML

Title: Error in Sibas call SUEND with rollback.

Symptom: Page link on system tables and/or indexes may be destroyd.

Reason: Index pages allocated inside the transaction was not properly rolled-back.

Solution: This error can be corrected by installing a patch supplied on the current patch diskette.

The following procedure is recommended:

* Log in as SINTRAN user area SYSTEM and set all SIBAS processes in passive state.

* Insert the patch diskette in the floppy drive and enter the directory on the floppy:
  `@ENTER-DIRECTORY,250379,<floppy controller>,<floppy unit>`

* Log in as SINTRAN user area SIBR-B and run the mode file (ignore any "UNKNOWN BREAK" messages):
  `@MODE,(250379:SYSTEM)N-220001B-57:SYMB,,`

* Release the directory and remove the diskette:
  `@RELEASE-DIRECTORY,250379`

* Log in as SINTRAN user area SYSTEM and start your databases again.

Software Error Report

Program: FAST

Title: OS-files defined with DIRECTORY:USER or :USER was not handled correctly.

Symptom: Error message from Sibr-Fast (error code 9892 or 23244B):
```
Unsuccessful attempt to open database file.
```

Reason: Database main user area was added to the already given OS-file user.

Solution: This error can be corrected by installing a patch supplied on the current patch diskette.

The following procedure is recommended:

* Log in as SINTRAN user area SYSTEM and delete all standard domains which are linked to SIBR-FAST-B.

* Stop SIBAS-MANAGER.

* Insert the patch diskette in the floppy drive and enter the directory on the floppy:
  ```
  @ENTER-DIRECTORY,250379,<floppy controller>,<floppy unit>
  ```

* Log in as SINTRAN user area SIBR-B and run the mode file (ignore any "UNKNOWN BREAK" or "BEYOND END-OF-FILE" messages):
  ```
  @MODE, (250379:SYSTEM) N-220001B-58:SYMB,,
  ```

* Release the directory and remove the diskette:
  ```
  @RELEASE-DIRECTORY,250379
  ```

* Log in as SINTRAN user area SYSTEM and define the standard domains you deleted again.

* Start SIBAS-MANAGER again.

Software Information Report

Program: ND tpServer

Title: Basic System Package for ND tpServer platform version C01 is released

Basic System Package ND tpServer version C
The following products are included:

250306	N01	SINTRAN III/VSX Standard Version C
250360	N00	SINTRAN III N revision (patch file version) 1000 for the N-version
210913	C01	SINTRAN III Monitor Call Package
	M02	ND-5000 Swapper
	L03	ND-500/5000 Background Monitor
211226	B05	Backup Manager
211304	B06	SIBAS/R including updated SIBAS SQL Server
211455	A06	SIBAS Manager for ND-500/5000
210794	E04	NOTIS-DS
211056	A06	Sprint Spooling System
211583	A07	Sprint Standard Printer Drivers
211495	A07	Sprint Printer Driver for Hp LaserJet
211803	A07	Sprint Printer Driver for Canon CaPSL
211073	B01	File System Verification
210518	E00	User Environment
211299	B00	SINTRAN NFS Support
210374	G03	COSMOS Basic Module
211327	D01	TCP/IP Basic Module III
211847	B00	ND-5830/5850 Microprogram
211276	F00	ND-5800 Microprogram
211275	F00	ND-5700 Microprogram
211274	E02	ND-5500 Microprogram
211273	E02	ND-5400 Microprogram
210337	I06	Backup System
211322	D02	DOMINO Maintenance Kit
211481	D01	DSS Test programs
211321	C03	NUCLEUS Maintenance Kit
221059	A01	BOOTP Server
212036	A02	UPS Server

**Modificati-
ons**
This platform include new versions of some of the products. This section describes the major changes in the products.

SINTRAN III/VSX version N

The main reason for releasing this new version of SINTRAN III is to improve performance, particularly on large systems. Refer to the SINTRAN III Release Information, N-version for a complete description of new or changed features and functions of the N-version. The most important changes are listed below:

* Improved utilisation of disk by an optimised file system cache.

* Improved utilisation of memory by removing restrictions on the use of memory above the old 32 Mbyte limit.

* Support the new multi-thread ND-5000 Swapper.

* Larger configurations (both standard configurations and custom-generated configurations. The N-version thus supports more terminals and processes.

* Improved fault tolerance and error messages.

ND-5000 Swapper version M

The M-version of the ND-5000 Swapper is made multi-thread, which means that it will start handling new swap requests while waiting for other requests to finish. Up to ten requests may be handled i parallel.

Furthermore, the M-version of the Swapper utilise a cache for data segments to further improve performance.

User Environment version E

The E-version of User Environment is designed to both improve performance and security.

The most important changes are:

* The UE server and the login program now run on the ND-5000 part of the system. This means better performance, particularly when logging in.

* The password mechanisms are improved to increase security:
  - The old password must now be entered when changing password.
- Possibility to prevent changing the password back to the previous password (or some of the later passwords).
  - Possibility for to get system-generated passwords.
  - Possibility to set a minimum time between password changes.

* Logging IP address (on terminal or PC) in the activity log and show it on UE-FUNC, TERMINAL-STATUS.

* Possibility to set access control on IP address (similar to terminal number).

* Log remote system ID (when running on a TAD) in the activity log and show it on UE-FUNC,TERMINAL-STATUS.

* All error messages from User Environment are now sent to the SINTRAN III Watchdog.

COSMOS Basic Module version G03

COSMOS Connect-To

* Revision G03 handles scripts of twice the size of scripts in G02.

* Login on local domains is changed to allow logging into a task:
  ```
  CONNECT-TO <system> <task> <param.1> <param.2> ...
  ```

COSMOS Spooling

* The maximum number of printers for COSMOS Spooling is increased to 100.

* Error messages from COSMOS Spooling is now sent to the SINTRAN Watchdog.

* The previous problem with 'No more versions can be created in this object block' is now bypassed.

SIBAS/R version B06

The most important changes in SIBAS/R are:

* A new SIBAS SQL server for the B06-version is included.
    - The new SQL server is made multi-tread to improve performance. The number of threads is set in the SW-CONFIG file.
    - The SQL server will try to use indexed search instead of sequential search.

* The SIBAS library now use Nucleus communication to reduce load on the ND-100 part of the system and thus improve performance. Available on ND-5700 and ND-5830/5850.

SINTRAN NFS Support version B

SINTRAN NFS Support makes it possible to use an ND-5000 SINTRAN system as an NFS server (not client) with limited functionality. This gives workstations (both DOS- and UNIX- based) "transparent" access to SINTRAN files .
That is, data is manipulated from the workstations just as if it had been stored locally.

The most important changes in the B-version are:

* Improved performance compared to the A-version:
Up to 400 % on the ls-command
Up to 50 % on read/write

* The B-version supports printing to printers known by SPRINT from Sun PC-NFS net print.

* All known errors in version A are corrected.

SPRINT Spooling System and Printer Drivers

SPRINT Standard Printer Driver version A07

* The Driver now allows the TIU to signal busy by sending reset. The driver will no longer stop when receiving 'SLEconnaborted' from SLIB. To allow 'SLEtimedout' to be interpreted as busy as well, set printer info. 1 byte 4 to 1.

* To select both sheet feeders on QMS-1700, printer info. 1, byte 2 must be set to 1.

SPRINT Printer Driver for HP LaserJet Printers ver. A07

* The Driver now allows the TIU to signal busy by sending reset. The driver will no longer stop when receiving 'SLEconnaborted' from SLIB. To allow 'SLEtimedout' to be interpreted as busy as well, set printer info. 1 byte 4 to 1.

SPRINT Printer Driver for Canon CaPSL version A07

* The A07 version supports font cartridges on Canon series II to improve printouts. To enable this, set the value 1 on parameter for font cartridges in SPRINT. If you do not have the font cartridge, the file (SPRINT-USER)SETUP-CAPSL-A07:SYMB must be downloaded to get the NOTIS character set.

* This driver do not support the old Canon LBP8 printers. For these printeres you must still use the 'AI' driver (PRM-SERV-AI-A07:PFIL/DFIL).

SPRINT support for network printers

* The A07-version of SPRINT printer drivers support printers connected directly to Ethernet using a TCP/IP interface in the printer.

* The printer must be configured to recognise its IP address. On HP LaserJet IIIsi and QMS 1700 this can be done from the front panel of the printer; other printers may require a separate boot server, for example BootP Server for SINTRAN.

BootP Server for SINTRAN version A

This product makes it possible for printers with TCP/IP interface and some X-terminals, in an environment of only SINTRAN machines, to discover their own IP addresses by broadcasting a BOOTP request.

UPS Server for SINTRAN version A

The UPS Server for SINTRAN makes it possible to communicate with a UPS (Uninterrupted Power Supply) unit via Octobus. If a power fail lasting more than 10 second occur, the UPS Server will detect this, and run the mode file to shut down the system.

Software Information Report

Program: ND-5000 ES

Title: Basic System Package for ND-5000 ES platform version C01 is released

Basic System Package ND-5000 ES verion C

The following products are included:

250304	N01	SINTRAN III/VSX Standard Version A
250360	N00	SINTRAN III N revision (patch file version) 1000 for the N-version
210913	C01	SINTRAN III Monitor Call Package
	M02	ND-5000 Swapper
	L03	ND-500/5000 Background Monitor
211226	B05	Backup Manager
211056	A06	Sprint Spooling System
211583	A07	Sprint Standard Printer Drivers
211495	A07	Sprint Printer Driver for Hp LaserJet
211803	A07	Sprint Printer Driver for Canon CaPSL
211073	B01	File System Verification
210518	E00	User Environment
210374	G03	COSMOS Basic Module
210337	I06	Backup System
211322	D02	DOMINO Maintenance Kit
211481	D01	DSS Test programs
211847	B00	ND-5830/5850 Microprogram
211276	F00	ND-5800 Microprogram
211275	F00	ND-5700 Microprogram
211274	E02	ND-5500 Microprogram
211273	E02	ND-5400 Microprogram
211321	C03	NUCLEUS Maintenance Kit

Modifications

This platform upgrade include new versions of some of the products. This section describes the major changes in the products.

SINTRAN III/VSX version N

The main reason for releasing this new version of SINTRAN III is to improve performance, particularly on large systems. Refer to the SINTRAN III Release Information, N-version for a complete description of new or changed features and functions of the N-version. The most important changes are listed below:

* Improved utilisation of disk by an optimised file system cache.

* Improved utilisation of memory by removing restrictions on the use of memory above the old 32 Mbyte limit.

* Support the new multi-thread ND-5000 Swapper.

* Larger configurations (both standard configurations and custom-generated configurations. The N-version thus supports more terminals and processes.

* Improved fault tolerance and error messages.

ND-5000 Swapper version M

The M-version of the ND-5000 Swapper is made multi-thread, which means that it will start handling new swap requests while waiting for other requests to finish. Up to ten requests may be handled i parallel.

Furthermore, the M-version of the Swapper utilise a cache for data segments to further improve performance.

User Environment version E

The E-version of User Environment is designed to both improve performance and security. The most important changes are:

* The UE server and the login program now run on the ND-5000 part of the system. This means better performance, particularly when logging in.

* The password mechanisms are improved to increase security:
  - The old password must now be entered when changing password.
  - Possibility to prevent changing the password back to the previous password (or some of the later passwords).
  - Possibility for to get system-generated passwords.
  - Possibility to set a minimum time between password changes.

* Logging IP address (on terminal or PC) in the activity log and show it on UE-FUNC,TERMINAL-STATUS.

* Possibility to set access control on IP address (similar to terminal number).

* Log remote system ID (when running on a TAD) in the activity log and show it on UE-FUNC, TERMINAL-STATUS.

* All error messages from User Environment are now sent to the SINTRAN III Watchdog.

COSMOS Basic Module version G03

COSMOS Connect-To

* Revision G03 handles scripts of twice the size of scripts in G02.

* Login on local domains is changed to allow logging into a task:
  CONNECT-TO <system> <task> <param.1> <param.2> ...

COSMOS Spooling

* The maximum number of printers for COSMOS Spooling is increased to 100.

* Error messages from COSMOS Spooling is now sent to the SINTRAN Watchdog.

* The previous problem with 'No more versions can be created in this object block' is now bypassed.

SPRINT Spooling System and Printer Drivers

SPRINT Standard Printer Driver version A07

* The Driver now allows the TIU to signal busy by sending reset. The driver will no longer stop when receiving 'SLEconnaborted' from SLIB. To allow 'SLEtimedout' to be interpreted as busy as well, set printer info. 1 byte 4 to 1.

* To select both sheet feeders on QMS-1700, printer info. 1, byte 2 must be set to 1.

SPRINT Printer Driver for HP LaserJet Printers ver. A07

* The Driver now allows the TIU to signal busy by sending reset. The driver will no longer stop when receiving 'SLEconnaborted' from SLIB. To allow 'SLEtimedout' to be interpreted as busy as well, set printer info. 1 byte 4 to 1.

SPRINT Printer Driver for Canon CaPSL version A07

* The A07 version supports font cartridges on Canon series II to improve printouts. To enable this, set the value 1 on parameter for font cartridges in SPRINT. If you do not have the font cartridge, the file (SPRINT-USER)SETUP-CAPSL-A07:SYMB must be downloaded to get the NOTIS character set.

* This driver do not support the old Canon LBP8 printers. For these printeres you must still use the 'AI' driver (PRM-SERV-AI-A07:PFIL/DFIL).

SPRINT support for network printers

* The A07-version of SPRINT printer drivers support printers connected directly to Ethernet using a TCP/IP interface in the printer.

* The printer must be configured to recognise its IP address. On HP LaserJet IIIsi and QMS 1700 this can be done from the front panel of the printer; other printers may require a separate boot server, for example BootP Server for SINTRAN.

SINTRAN-III Platform upgrade for ND tpServer C

212032C01   *Report no: 1*

Software Information Report

Program: ND tpServer

Title: Platform upgrade for ND tpServer version C01 is released

Platform upgrade ND tpServer version C   (212032)

Upgrade for ND tpServer Platform (211560) from version B to version C upgrades the Basic System Package for ND tpServer from version B to version C01.

The following products are updated with this upgrade kit:

250306	N01	SINTRAN III/VSX Standard Version C
250360	N00	SINTRAN III N revision (patch file version) 1000 for the N-version
210913	C01	SINTRAN III Monitor Call Package
	M02	ND-5000 Swapper
	L03	ND-500/5000 Background Monitor
211226	B05	Backup Manager
211304	B06	SIBAS/R including updated SIBAS SQL Server
211455	A06	SIBAS Manager for ND-500/5000
210794	E04	NOTIS-DS
211056	A06	Sprint Spooling System
211583	A07	Sprint Standard Printer Drivers
211495	A07	Sprint Printer Driver for Hp LaserJet
211803	A07	Sprint Printer Driver for Canon CaPSL
211073	B01	File System Verification
210518	E00	User Environment
211299	B00	SINTRAN NFS Support
210374	G03	COSMOS Basic Module
211327	D00	TCP/IP Basic Module III
211847	B00	ND-5830/5850 Microprogram
211276	F00	ND-5800 Microprogram
211275	F00	ND-5700 Microprogram
211274	E02	ND-5500 Microprogram
211273	E02	ND-5400 Microprogram
210337	I06	Backup System
211322	D02	DOMINO Maintenance Kit
211481	D01	DSS Test programs
211321	C03	NUCLEUS Maintenance Kit
221059	A01	BOOTP Server
212036	A02	UPS Server

Modifications

This platform upgrade include new versions of some of the products. This section describes the major changes in the products.

SINTRAN III/VSX version N

The main reason for releasing this new version of SINTRAN III is to improve performance, particularly on large systems. Refer to the SINTRAN III Release Information, N-version for a complete description of new or changed features and functions of the N-version. The most important changes are listed below:

* Improved utilisation of disk by an optimised file system cache.

* Improved utilisation of memory by removing restrictions on the use of memory above the old 32 Mbyte limit.

* Support the new multi-thread ND-5000 Swapper.

* Larger configurations (both standard configurations and custom-generated configurations. The N-version thus supports more terminals and processes.

* Improved fault tolerance and error messages.

ND-5000 Swapper version M

The M-version of the ND-5000 Swapper is made multi-thread, which means that it will start handling new swap requests while waiting for other requests to finish. Up to ten requests may be handled i parallel.

Furthermore, the M-version of the Swapper utilise a cache for data segments to further improve performance.

User Environment version E

The E-version of User Environment is designed to both improve performance and security. The most important changes are:

* The UE server and the login program now run on the ND-5000 part of the system. This means better performance, particularly when logging in.

* The password mechanisms are improved to increase security:
  - The old password must now be entered when changing password.
  - Possibility to prevent changing the password back to the previous password (or some of the later passwords).
  - Possibility for to get system-generated passwords.
  - Possibility to set a minimum time between password changes.

* Logging IP address (on terminal or PC) in the activity log and show it on UE-FUNC, TERMINAL-STATUS.

* Possibility to set access control on IP address (similar to terminal number).

* Log remote system ID (when running on a TAD) in the activity log and show it on UE-FUNC,TERMINAL-STATUS.

* All error messages from User Environment are now sent to the SINTRAN III Watchdog.

COSMOS Basic Module version G03

COSMOS Connect-To

* Revision G03 handles scripts of twice the size of scripts in G02.

* Login on local domains is changed to allow logging into a task:
  CONNECT-TO <system> <task> <param.1> <param.2> ...

COSMOS Spooling

* The maximum number of printers for COSMOS Spooling is increased to 100.

* Error messages from COSMOS Spooling is now sent to the SINTRAN Watchdog.

* The previous problem with 'No more versions can be created in this object block' is now bypassed.

SIBAS/R version B06

The most important changes in SIBAS/R are:

  * A new SIBAS SQL server for the B06-version is included.- The new SQL server is-

- The new SQL server is made multi-tread to improve performance. The number of threads is set in the SW-CONFIG file.
- The SQL server will try to use indexed search instead of sequential search.

* The SIBAS library now use Nucleus communication to reduce load on the ND-100 part of the system and thus improve performance. Available on ND-5700 and ND-5830/5850.

SINTRAN NFS Support version B

SINTRAN NFS Support makes it possible to use an ND-5000 SINTRAN system as an NFS server (not client) with limited functionality. This gives workstations (both DOS- and UNIX-ased) "transparent" access to SINTRAN files . That is, data is manipulated from the workstations just as if it had been stored locally.

The most important changes in the B-version are:

* Improved performance compared to the A-version:
Up to 400 % on the ls-command
Up to 50 % on read/write

* The B-version supports printing to printers known by SPRINT from Sun PC-NFS net print.

* All known errors in version A are corrected.

SPRINT Spooling System and Printer Drivers

SPRINT Standard Printer Driver version A07

* The Driver now allows the TIU to signal busy by sending reset. The driver will no longer stop when receiving 'SLEconnaborted' from SLIB. To allow 'SLEtimedout' to be interpreted as busy as well, set printer info. 1 byte 4 to 1.

* To select both sheet feeders on QMS-1700, printer info. 1, byte 2 must be set to 1.

SPRINT Printer Driver for HP LaserJet Printers ver. A07
* The Driver now allows the TIU to signal busy by sending reset. The driver will no longer stop when receiving 'SLEconnaborted' from SLIB. o allow 'SLEtimedout' to be interpreted as busy as well, set printer info. 1 byte 4 to 1.

SPRINT Printer Driver for Canon CaPSL version A07

* The A07 version supports font cartridges on Canon series II to improve printouts. To enable this, set the value 1 on parameter for font cartridges in SPRINT. If you do not have the font cartridge, the file (SPRINT-USER)SETUP-CAPSL-A07:SYMB must be downloaded to get the NOTIS character set.

* This driver do not support the old Canon LBP8 printers. For these printeres you must still use the 'AI' driver (PRM-SERV-AI-A07:PFIL/DFIL).

SPRINT support for network printers

* The A07-version of SPRINT printer drivers support printers connected directly to Ethernet using a TCP/IP interface in the printer.

* The printer must be configured to recognise its IP address. On HP LaserJet IIIsi and QMS 1700 this can be done from the front panel of the printer; other printers may require a separate boot server, for example BootP Server for SINTRAN.

BootP Server for SINTRAN version A

This product makes it possible for printers with TCP/IP interface and some X-termi-nals, in an environment of only SINTRAN machines, to discover their own IP Address-es by broadcasting a BOOTP request.

UPS Server for SINTRAN version A

The UPS Server for SINTRAN makes it possible to communicate with a UPS (Uninterrupted Power Supply) unit via Octobus. If a power fail lasting more than 10 second occur, the UPS Server will detect this, and run the mode file to shut down the system.

Errors corrected

All reported errors are corrected except those listed as not corrected below.

SINTRAN III/VSX-500 Standard system C (250306 N01) - errors corrected:

* Revision (patch file) 1000 is included:

New Software System Reports included in patch file 1000:

Report no.:   37 A
Program: All
Subject: Output to MTAD when line is dead.
Symptom: Hanging terminals and system may stop in ERRFATAL on level 12.

Report no.:   36 A
Program: All
Subject: UE (E) automatic login and ND-500(0) stopped (or error).
Symptom: Erroneously logged in as SINTRAN user USER-ENVIRONMENT.

Report no.:   35 A
Program: File system
Subject: Error in deleting big files on big directories
Symptom: User entry showing wrong number of pages used, and bit file not properly upated.

Report no.:   34 A
Program: ND-500(0)
Subject: ND-500(0) lock timeout not correctly reported.
Symptom: System loops on level 2

General Modification reports

Report no.:   3
Program: All
Subject: UE-LOGIN fails and "NO SCRATCH FILE" is written.
Same as Report no. 164 for SINTRAN III version M

Special Modification reports

Report no.:   33 A
Program: All
Subject: Removes 'END OF FILE' message after @COPY command.
Same as Report no. 69 for SINTRAN III version M.

Report no.:   26 A
Program: All
Subject: Problems with 8-bit I/O on terminals.
Same as Report no. 78 for SINTRAN III version M.

Report no.:   25 A
Program: All
Subject: Make monitor call EXABS (335) available on ND-500/5000.
Same as Report no. 67 for SINTRAN III version M.

Report no.:   23 A
Program: DMA-printer
Subject: Paper Instruction Command and character conversions on DMA printers.
Same as Report no. 32 for SINTRAN III version M.

Report no.:	21 A
Program:	BP-2000 printer
Subject:	Paper Instruction Command and Character conversions on BP-2000 printer. Same as Report no. 35 for SINTRAN III version M.

Report no.:	20 A
Program:	Driver
Subject:	Special character in 8-bit mode will be accepted as XON character. The input character is masked with 177B. Same as Report no. 152 for SINTRAN III version M

Report no.:	19 A
Program:	VSX
Subject:	UPNOD 2000 switch, disconnect terminal when logging out. Same as Report no. 190 for SINTRAN III version M

Report no.:	18 A
Program:	VSX
Subject:	UPNOD 3000 switch, disconnect terminal when logging out. Same as Report no. 125 for SINTRAN III version M

Report no.:	17 A
Program:	VSX
Subject:	Reduce interrupt load from HDLC connected to digital line, (for example British Telecom's Kilostream). Same as Report no. 68 for SINTRAN III version M.

Report no.:	15 A
Program:	VSX
Subject:	Restart after buffer full on internal devices. Same as Report no. 43 for SINTRAN III version M.

Report no.:	14 A
Program:	All
Subject:	Reduce maximum length of mail messages to 160 characters, to fit into X.29 buffer. Same as Report no. 83 for SINTRAN III version M.

Report no.:	13 A
Program:	All
Subject:	Patch to remove the form feed after the spooling trailer. Same as Report no. 77 for SINTRAN III version M.

Report no.:	12 A
Program:	All
Subject:	Patch to remove the form feed at the end of the Spooling print if the spooling trailer is present. Same as Report no. 76 for SINTRAN III version M.

Report no.:	11 A
Program:	All
Subject:	Patch to remove form feed at the start of the Spooling print if the spooling header is present. Same as Report no. 75 for SINTRAN III version M.

Report no.:	10 A
Program:	All
Subject:	Patch to remove the form feed after the spooling header. Same as Report no. 74 for SINTRAN III version M.

Report no.:	9 A
Program:	All
Subject:	Patch to treat empty spooling form as normal String. Same as Report no. 73 for SINTRAN III version M.

Report no.: 8 A
Program: All
Subject: Spooling header with rotating alphabetic characters (instead of *) gives more even wear on character set.
Same as Report no. 72 for SINTRAN III version M.

Report no.: 7 A
Program: All
Subject: How to remove one linefeed between each document on printer with tractor feed.
Same as Report no. 70 for SINTRAN III version M.

Report no.: 6 A
Program: All
Subject: Patch to include terminals using 3270- or VIP-emulator in @TERMI-NAL-STAT list, or when MON TERST is used.
Same as Report no. 62 for SINTRAN III version M.

Report no.: 5 A
Program: All
Subject: How to drop DTR (Data Terminal Ready), when logging out. This applies to special devices not supplied by ND.
Same as Report no. 31 for SINTRAN III version M.

Report no.: 2 A
Program: All
Subject: Batch output file opened for "overwrite" and not "write-append".
Same as Report no. 115 for SINTRAN III version M

ND-500/5000 Swapper version M02 - errors corrected:

All known errors in previous versions are corrected.

Backup Manager for ND-500/5000 (211226B05) - errors corrected:

* Unsuccessful attempt to connect DMA-Server during image backup of main directory with CONTROL = RsFc,Pu

* 'End of medium' during COMPARE of image backup to volume when the directory contains 'IMAGE-NO-COMPARE-FILES'.

* Missing display of 'From' parameter.

* Wrong screen field fetched during definition of restore job.

* Wrong name of scheduler database file name (BM-SJOBQUEU). Wrong default name of output files.

* Wrong default name of output file used by BM-Scheduler.

* Local timeout while searching on GTS (Exabyte 8200).

* Error at start-up of copy of file from a Domino-connected disk to a Domino-connected sequential device (tape/streamer).

* BM-Operator is unable to set SIBAS in correct state if SIBAS is in passive state.

* BM-Operator fails to reserve directory in connection with image backup of directory.

* Unable to append scheduled SET to batch process when using default batch output file name.

* Rubbish characters (old contents) at end of batch input file generated by the server at SET scheduled time.

* Wrong contents in file after restore from spliced volume on ND-100 connected streamer.

* A magnetic tape which has never been written to will not be overwritten on a STC magnetic tape drive if mode 'Oe' is used.

* Error in periodic scheduling if the period to the next schedule time stretches over 2 or more month boarders.

* Too few pages given to user when copying a contiguous file to a new user area with 'CE' (Create and Expand) option.

Backup Manager for ND-500/5000 (211226B05) - errors known, but not corrected:

* When Backup Manager creates a temporary mirror to perform an image copy of a directory on a DOMINO/SCSI disk, the error message 'NO MORE TO COPY' will be written on the error device when the backup procedur e is finished. This message can be ignored.

DMA-Server (250089C02) - errors corrected:

* Changing block size in MON ABSTR for BDIO disk.

* Disable writing file mark and rewind on streamer. This was necessary to allow Backup Manager to copy images to more than one streamer.

* Correction of calculation of pages copied when copying files with Backup System to more than one medium.

* Improving timer mechanism and removing error message:
"50010 - operation in progress" when starting BM-Filerestore.

* Backup Manager image copies will sometimes fail at the end of the operation with the error message "50061 - Unknown Program Function".

DMA-Server (250089C02) - errors known, but not corrected:

* Buffer allocation. The DMA-server's transfer buffers may be placed in multiport memory by setting location 10B on DMASEG to 0. The buffers may be placed in ND-100 memory by setting location 10B on DMASEG to 1. The default value is 0. A prepared patch for changing it is included in the standard load file BACKUP-LOAD:MODE.

* Backup-system compatibility. To allow restore of images written to streamer by Backup System, location 11B on DMASEG should be set to 1. Default value for this location is 0. A prepared patch for changing it is included in the standard load file BAC-KUP-LOAD:MODE.

File Manager (211075C03) - errors corrected:

* When using File Manager version C, the User Environment profile database may increase even when no updates in the SIBAS/R database were necessary.

If the User Environment profile database has already grown too big because of this, you may use the program UE-D-SIP to delete obsolete information stored by File Manager, and then use the program UE-EX-VER -DXX executing functions Unload and Load to reduce the size of the profile database.

Multi-Machine Operator Environment (211073A01) - errors corrected:

* Error in Send-Message in OEM-STATU program.

Multi-Machine Operator Environment (211078A01) - errors known, but not corrected:

* OE-STATU program will not work on machines with names longer than 12 characters.

ND-5400 Microprogram (211273E02) - errors corrected:

ND-5500 Microprogram (211274E02) - errors corrected:

ND-5700 Microprogram (211275F00) - errors corrected:

ND-5800 Microprogram (211276F00) - errors corrected:

* Corrections in the AXI-instruction, which lost floating precision on the operation $a**n$ $(n < 0)$. The correction implies a changed order of operation: division prior to multiplication when $a < 1$ and division after multiplication when $a > 1$.

* Corrections in a wait for a semaphore, introducing a 13-second timeout.

* Changes to the Octobus driver to release the execution queue if the microprogram has reserved the queue and the microprogram must wait more than 10 microseconds. This is done to avoid Lock timeout 2132B and timeout 2000B.

* Corrections in CLREAD, NXGET and break.

ND-5830/5850 Microprogram (211847B00) - errors corrected:

* Changes in the algorithm on TSET-cycles in the lock routine. While waiting for a semaphore, TSET was run every 2 microseconds. This is now changed to 50-microsecond intervals to avoid hang situations on the MF bus.

* Changes in timing in the instructions ENTS, ENTM, ENTF, and ENTB to avoid a data cache hit on an instruction channel access when I-error. Previously, this led to inconsistency between cache and memory.

* Corrections in the WEXT instruction adding a new Octobus driver.

* Corrections in a wait for a semaphore, introducing a 13-second timeout.

* Changes to the Octobus driver to release the execution queue if the microprogram has reserved the queue and the microprogram must wait more than 10 microseconds. This is done to avoid Lock timeout 2132B.

* Corrections to logical data memory read, function 10. This is now always run with paging on to allow for segment trace and multi-CPU.

NOTIS-DS for ND-500/5000 (210794E04) - errors corrected:

* Fatal error in the emulator server. SINTRAN seems to be "hanging" and the file ER-S3WD-LOG:DATA is corrupted.

* Maximum number of user simultaneously connected to the emulator server is 25, should be 40.

* When creating a user area in UE-PMAN (version D) and standard NOTIS-DS archive is specified, MAILBOX with INTRAY and OUTTRAY will not be created automatically.

* Using DS-BACKUP to copy documents from a NOTIS-DS version D database to a NOTIS-DS version E database, not being a supervisor user, gave error message 'You are not authorized to write this attribute'.

* Fetching documents from NOTIS-DS version E02 sometimes gave only part of document. This is due to wrong maximum byte pointer. The symptom seen in NOTIS-WP was that only the first part of document was fetche d and in NOTIS-CALC that the program hung.

* The List/Start command did not differ between document names ending with hyphen (-) and document names not ending with hyphen but equal up to the hyphen character.

* The List/Start command would list all ambiguous document names even if there was one unique name.

* The command "Administration/Copy hierarchy" also copied the documents while it should only copy the drawers and folders.

* Copying an empty document from SINTRAN gave error message 'No such page' and the copying halted.

SIBAS/R (211304B06) - errors corrected:

* Error in SIBAS-ONLINE-PRIORITY.

* Error in SIBAS call SSCUR with option codes 2 and 4.

* Error in SIBAS call SEXMC.

* Error in SIBAS call SGIXN if retry occurred.

* Better utilization of SIBAS work area.

* Sort error on integer*2 indexes with duplicates allowed (DML).

* Sort error on integer*2 indexes with duplicates allowed (DBM).

* Sort error on integer*2 indexes with duplicates allowed (DRL).

* Error in fetching schema information.

* Backup-manager may report fatal error in consistency check when doing backup of many databases in one backup set.

* Error in Verify WIDE-STORAGE-TABLE - usually appearing as an error in sort routine.

* Error in NEW INDEX when more than 65535 pages are used on the system table.

* Error in VERIFY INDEX in regenerate mode when top-levels are beyond SIBAS page no. 65535.

* Error in screen oriented SIBAS service when executing database status.

* Error in CHANGE ROW LENGTH.

* Error in NEW COLUMN on a table which contains wide-storage.

* Reduce length of timeout before retry (Nucleus version only).

* Error in SIBAS call SGIXN.

* Error in CHANGE TABLE-SIZE.

* Error in redefinition when database contains wide-storage tables.

* Error in SIBAS call SSCUR with option codes 0, 3 and 4.

* Error in index tables in SIB-DML.

* Error in currency handling.

* Modification patch to suppress the message:
  WARNING MTSWAIT * <TIMEOUT>, Message in main-queue!

* Page-link error after LOAD APPEND.

* Problems with recovery after installing a backup copy of a database.

* Error in SSCUR.

* Error message "SIBRC: Internal error" may appear on the error device when SIBAS is accessed from a Dolphin Server 300/500 front-end.

* Errors during Consistency check.

* Error in user status in SIBAS-Service.

* Error in the command FREE-SPACE-STATISTICS (line mode only) for WIDE-STORAGE-TABLES in SIBAS-Service.

* Error in concurrency handling in SRGET in SIB-DML.

* Error in initialization of sort-merge for T-indexes.

* Wrong message to error-device when B-log is full.

* Run SCLDB SINGLE-thread if given user already has an active task.

* Error in SINGLE-thread execution.

* Error handling after SQL-Open introduced.

* Error status from SQL kernel will be returned unmodified to the application.

* Not proper clean-up after fatal error in SQL kernel.

* Wrong revision ID for SQL server.

* Error in CHANGE-TABLE on large tables. Number of used pages is > 65535 SIN-TRAN pages (or will be larger due to the redefinition).

* The command BACKUP-FTX was allowed without the database open for update by you.

* Close temporary files before (a new) SQLOPEN is done.

SIBAS Manager (211455A06) - errors corrected:

* Error message: "This database is not known by SIBAS Manager" when running Consistency check (batch) on a
renamed DB-user and directory.

* User statistics in SM-OPERATOR shows <Unknown user name> for local users with UE-user names shorter than 8 characters.

* User statistics in SM-OPERATOR shows <Unknown user name> for some remote users.

* Database is stopped for no apparent reason. SIBAS Manager server claims that R-log limits are exceeded while they are not.

SPRINT Spooling System (211056A06) - errors corrected:

* OpenLAN printers failed with the message 'Device not reserved'.

* The error message "Impossible to send data to printer" occurred too often. If you still get this problem with printers connected to an 8-terminal interface, you should increase the buffer size on the device on input.

* SPRINT could close files opened by other RT-programs if
the peripheral file is deleted for an OpenLAN printer.

* When having close to 60 local and remote printer definitions, SPRINT could sometimes fail to start the local printers.

* SSY-SYSF:DATA could be overwritten and cause various problems.

* Printer definitions could be mixed. This could result in listings being printed on the wrong printer.

* Output files could be printed twice.

* The SSY-PICT files on the ND-5000 ES and ND tpServerplatforms must reside on user area SPRINT-USER instead
of ND-OPERATIONS.

* The remote printer definition on the last entry in SPRINTdisappeared after restart.

* Unconverted printouts via SINTRAN spooling now usedefault form in SPRINT.

SPRINT Standard Printer Drivers (211583A07) - errors corrected:

* Last line on page on FACIT-720/730 was lost.

* Lines with leading spaces were displaced.

* Superscript 2 and 3 had wrong underlining on Canon and Epson.

* Underlining of blank lines did not work.

* Font changes could give wrong character set.

* The FCB control characters had no effect.

* Driver could close files opened by other RT-programs.

* The PSCRIPT (PostScript) driver now supports dual-bin.

* Driver did not select 7/8-bit mode correctly.

* Personal printers did not accept 8-bit output files.

* PSCRIPT (PostScript) output was ignored on QMS-410.

* Underlining appeared too high on some QMS-printers. To solve this, the first parameter in printer info 1 should be set to 1.

* Y with acute accent did not work on PSCRIPT (PostScript).

* Some PSCRIPT (PostScript) printers could hang after a printout.

* Landscape did not work properly on ND-720/730.

* National code 17 (New Norwegian) is now supported.

* Problems with FF-after on LINE-PRINTER is corrected.

* Manual feed on Canon LBP8 now works without having to push the FF-button.

* Driver now allows the TIU to signal busy by sending reset. Driver will no longer stop when receiving 'SLEnetreset' or 'SLEtimedout' from SLIB.

SPRINT Printer Driver for HP LaserJet Printers (211495A07) errors corrected:

* Last line on page on ND-708 was lost.

* Lines with leading spaces were displaced.

* Underlining of blank lines did not work.

* Font changes could give wrong character set.

* Y with acute accent did not work on PCL4.

* Personal printers did not accept 8-bit output files.

* Driver could close files opened by other RT-programs.

* National code 17 (New Norwegian) is now supported.

* OKI-800 gave blank sheet when accessing lower input bin.

* Driver now allows the TIU to signal busy by sending reset. Driver will no longer stop when receiving 'SLEnetreset' or 'SLEtimedout' from SLIB.

TCP/IP Basic Module III (211327D00) - errors corrected:

* TCPD and wasted Nucleus resources. Previously, Nucleus resources involved in error reporting from Ethernet III controller.

Software were not released.

* Telnet server and excessive error reported. The Telnet server sometimes continued polling connections that was disconnecting, giving excessive reports like "Illegal socket ID".

* UDP-broadcasts thrown away. UDP-broadcasts were not handled correctly.

* ARP-entries are kept for at least half an hour.

* The MBUFs used by the RAW protocol were not released.

* Nucleus resources not released. The Nucleus resources used by the controller when an application used SLib to send data with the RAW protocol, were not released.

* Mixing TCP-port and UDP-port Datagrams sent to local UDP-port number X would end up at local TCP-port number X if this did exist and had been created before the equally numbered UDP-port.

* The TCP/IP data checksum was not enabled and bad data was accepted.

* The heartbeat-check mechanism used to check if the Ethernet III controller is active, did not work.

* Performance of processes using TCP/IP is much better.

* Some error reports from the Ethernet III controller. Software have been improved, for example the "Duplicated IP addresses" Report now returns both the IP and Ethernet addresses.

* The suicide mechanism implemented in the SIBAS Backend process is removed and SIBECOM running in the Ethernet III wil now print the error message "No more free SI BAS connections".

User Environment (210518E00) - errors corrected:

All known errors in previous versions are corrected.

User Environment (210518E00) - errors known, but not corrected:

* Using 'Task-in-user-area' to start some products (e.g. NOTIS-WP) may cause the wrong user area to be present after the task is completed.
A workaround for this problem is to start NOTIS-WP with the option of clearing the scratch file:
@NOTIS-WP %<drawer>,<folder>,<document>

* When Stop-Terminal/Timeout happens and the user is in a User Environment Menu, the User Environment Scratch file is not reset.

SINTRAN-III Platform upgrade for ND-5000 ES C
212033C01

Software Information Report

Program: ND-5000 ES

Title: Platform upgrade for ND-5000 ES version C01 is released

Platform upgrade ND-5000 ES version C   **(212033)**

Upgrade for ND-5000 ES Platform (211731) from version B to version C upgrades the Basic System Package for ND-5000 ES from version B to version C01.

The following products are updated with this upgrade kit:

New Software System Reports included in patch file 1000:

250304	N01	SINTRAN III/VSX Standard Version A
250360	N00	SINTRAN III N revision (patch file version) 1000 for the N-version
210913	C01	SINTRAN III Monitor Call Package
	M02	ND-5000 Swapper
	L03	ND-500/5000 Background Monitor
211226	B05	Backup Manager
211056	A06	Sprint Spooling System
211583	A07	Sprint Standard Printer Drivers
211495	A07	Sprint Printer Driver for Hp LaserJet
211803	A07	Sprint Printer Driver for Canon CaPSL
211073	B01	File System Verification
210518	E00	User Environment
210374	G03	COSMOS Basic Module
210337	I06	Backup System
211322	D02	DOMINO Maintenance Kit
211481	D01	DSS Test programs
211847	B00	ND-5830/5850 Microprogram
211276	F00	ND-5800 Microprogram
211275	F00	ND-5700 Microprogram
211274	E02	ND-5500 Microprogram
211273	E02	ND-5400 Microprogram
211321	C03	NUCLEUS Maintenance Kit

Modifications

This platform upgrade include new versions of some of the products. This section describes the major changes in the products.

SINTRAN III/VSX version N

The main reason for releasing this new version of SINTRAN III is to improve performance, particularly on large systems. Refer to the SINTRAN III Release Information, N-version for a complete description of new or changed features and functions of the N-version. The most important changes are listed below:

* Improved utilisation of disk by an optimised file system cache.

* Improved utilisation of memory by removing restrictions on the use of memory above the old 32 Mbyte limit.

* Support the new multi-thread ND-5000 Swapper.

* Larger configurations (both standard configurations and custom-generated configurations. The N-version thus supports more terminals and processes.

* Improved fault tolerance and error messages.

ND-5000 Swapper version M.

The M-version of the ND-5000 Swapper is made multi-thread, which means that it will start handling new swap requests while waiting for other requests to finish. Up to ten requests may be handled i parallel.

Furthermore, the M-version of the Swapper utilise a cache for data segments to further improve performance.

User Environment version E

The E-version of User Environment is designed to both improve performance and security. The most important changes are:

* The UE server and the login program now run on the ND-5000 part of the system. This means better performance, particularly when logging in.

* The password mechanisms are improved to increase security:
  - The old password must now be entered when changing password.
  - Possibility to prevent changing the password back to the previous password (or some of the later passwords).
  - Possibility for to get system-generated passwords.
  - Possibility to set a minimum time between password changes.

* Logging IP address (on terminal or PC) in the activity log and show it on UE-FUNC, TERMINAL-STATUS.

* Possibility to set access control on IP address (similar to terminal number).

* Log remote system ID (when running on a TAD) in the activity log and show it on UE-FUNC,TERMINAL-STATUS.

* All error messages from User Environment are now sent to the SINTRAN III Watchdog.

COSMOS Basic Module version G03

COSMOS Connect-To

* Revision G03 handles scripts of twice the size of scripts in G02.

* Login on local domains is changed to allow logging into a task:
  CONNECT-TO <system> <task> <param.1> <param.2> ...

COSMOS Spooling

* The maximum number of printers for COSMOS Spooling is increased to 100.

* Error messages from COSMOS Spooling is now sent to the SINTRAN Watchdog.

* The previous problem with 'No more versions can be created in this object block' is now bypassed.

SPRINT Spooling System and Printer Drivers

SPRINT Standard Printer Driver version A07

* The Driver now allows the TIU to signal busy by sending reset. The driver will no longer stop when receiving 'SLEconnaborted' from SLIB. To allow 'SLEtimedout' to be interpreted as busy as well, set printer info. 1 byte 4 to 1.

* To select both sheet feeders on QMS-1700, printer info. 1, byte 2 must be set to 1.

SPRINT Printer Driver for HP LaserJet Printers ver. A07

* The Driver now allows the TIU to signal busy by sending reset. The driver will no longer stop when receiving 'SLEconnaborted' from SLIB. To allow 'SLEtimedout' to be interpreted as busy as well, set printer info. 1 byte 4 to 1.

SPRINT Printer Driver for Canon CaPSL version A07

* The A07 version supports font cartridges on Canon series II to improve printouts. To
  enable this, set the value 1 on parameter for font cartridges in SPRINT. If you do not
  have the font cartridge, the file (SPRINT-USER)SETUP-CAPSL-A07:SYMB must be
  downloaded to get the NOTIS character set.

* This driver do not support the old Canon LBP8 printers. For these printeres you
  must still use the 'AI' driver (PRM-SERV-AI-A07:PFIL/DFIL).

SPRINT support for network printers

* The A07-version of SPRINT printer drivers support printers connected directly to
  Ethernet using a TCP/IP interface in the printer.

* The printer must be configured to recognise its IP address. On HP LaserJet IIIsi and
  QMS 1700 this can be done from the front panel of the printer; other printers may re-
  quire a separate boot server, for example BootP Server for SINTRAN.

Errors corrected

All reported errors are corrected except those listed as not corrected below.

SINTRAN III/VSX-500 Standard system A (250304 N01) - errors corrected:

* Revision (patch file) 1000 is included:

Report no.:	37 A
Program:	All
Subject:	Output to MTAD when line is dead.
Symptom:	Hanging terminals and system may stop in ERRFATAL on level 12.

Report no.:	36 A
Program:	All
Subject:	UE (E) automatic login and ND-500(0) stopped (or error).
Symptom:	Erroneously logged in as SINTRAN user USER-ENVIRONMENT.

Report no.:	35 A
Program:	File system
Subject:	Error in deleting big files on big directories
Symptom:	User entry showing wrong number of pages used, and bit file not proper-ly updated.

Report no.:	34 A
Program:	ND-500(0)
Subject:	ND-500(0) lock timeout not correctly reported.
Symptom:	System loops on level 2

General Modification reports

Report no.:	3
Program:	All
Subject:	UE-LOGIN fails and "NO SCRATCH FILE" is written.
	Same as Report no. 164 for SINTRAN III version M.

Special Modification reports

Report no.:	33 A
Program:	All
Subject:	Removes 'END OF FILE' message after @COPY command.
	Same as Report no. 69 for SINTRAN III version M.

Report no.:	26 A
Program:	All
Subject:	Problems with 8-bit I/O on terminals.
	Same as Report no. 78 for SINTRAN III version M.

Report no.: 25 A
Program: All
Subject: Make monitor call EXABS (335) available on ND-500/5000.
Same as Report no. 67 for SINTRAN III version M.

Report no.: 23 A
Program: DMA-printer
Subject: Paper Instruction Command and character conversions on DMA prin-
ters.
Same as Report no. 32 for SINTRAN III version M.

Report no.: 21 A
Program: BP-2000 printer
Subject: Paper Instruction Command and Character conversions on BP-2000
printer.
Same as Report no. 35 for SINTRAN III version M.

Report no.: 20 A
Program: Driver
Subject: Special character in 8-bit mode will be accepted as XON character. The
input character is masked with 177B.
Same as Report no. 152 for SINTRAN III version M.

Report no.: 19 A

Program: VSX
Subject: UPNOD 2000 switch, disconnect terminal when logging out.
Same as Report no. 190 for SINTRAN III version M.

Report no.: 18 A
Program: VSX
Subject: UPNOD 3000 switch, disconnect terminal when logging out.
Same as Report no. 125 for SINTRAN III version M.

Report no.: 17 A
Program: VSX
Subject: Reduce interrupt load from HDLC connected to digital line, (for example
British Telecom's Kilostream).
Same as Report no. 68 for SINTRAN III version M.

Report no.: 15 A
Program: VSX
Subject: Restart after buffer full on internal devices.
Same as Report no. 43 for SINTRAN III version M.

Report no.: 14 A
Program: All
Subject: Reduce maximum length of mail messages to 160 characters, to fit into
X.29 buffer.
Same as Report no. 83 for SINTRAN III version M.

Report no.: 13 A
Program: All
Subject: Patch to remove the form feed after the spooling trailer.
Same as Report no. 77 for SINTRAN III version M.

Report no.: 12 A
Program: All
Subject: Patch to remove the form feed at the end of the spooling print if the spoo-
ling trailer is present.
Same as Report no. 76 for SINTRAN III version M.

Report no.: 11 A
Program: All
Subject: Patch to remove form feed at the start of the spooling print if the spooling
header is present.
Same as Report no. 75 for SINTRAN III version M.

Report no.: 10 A
Program: All
Subject: Patch to remove the form feed after the spooling header.
Same as Report no. 74 for SINTRAN III version M.

Report no.: 9 A
Program: All
Subject: Patch to treat empty spooling form as normal string.
Same as Report no. 73 for SINTRAN III version M.

Report no.: 8 A
Program: All
Subject: Spooling header with rotating alphabetic characters (instead of *) gives more even wear on character set.
Same as Report no. 72 for SINTRAN III version M.

Report no.: 7 A
Program: All
Subject: How to remove one linefeed between each document on printer with tractor feed.
Same as Report no. 70 for SINTRAN III version M.

Report no.: 6 A
Program: All
Subject: Patch to include terminals using 3270- or VIP-emulator in @TERMINAL-STAT list, or when MON TERST is used.
Same as Report no. 62 for SINTRAN III version M.

Report no.: 5 A
Program: All
Subject: How to drop DTR (Data Terminal Ready), when logging out. This applies to special devices not supplied by ND.
Same as Report no. 31 for SINTRAN III version M.

Report no.: 2 A
Program: All
Subject: Batch output file opened for "overwrite" and not "write-append".
Same as Report no. 115 for SINTRAN III version M.

ND-500/5000 Swapper version M02 - errors corrected:

All known errors in previous versions are corrected.

Backup Manager for ND-500/5000 (211226B05) - errors corrected:

* Unsuccessful attempt to connect DMA-Server during image backup of main directory with CONTROL = RsFc,Pu

* 'End of medium' during COMPARE of image backup to volume when the directory contains 'IMAGE-NO-COMPARE-FILES'.

* Missing display of 'From' parameter.

* Wrong screen field fetched during definition of restore job.

* Wrong name of scheduler database file name (BM-SJOBQUEU). Wrong default name of output files.

* Wrong default name of output file used by BM-Scheduler.

* Local timeout while searching on GTS (Exabyte 8200).

* Error at start-up of copy of file from a Domino-connected disk to a Domino-connected sequential device (tape/streamer).

* BM-Operator is unable to set SIBAS in correct state if SIBAS is in passive state.

* BM-Operator fails to reserve directory in connection with image backup of directory.

* Unable to append scheduled SET to batch process when using default batch output file name.

* Rubbish characters (old contents) at end of batch input file generated by the server at SET scheduled time.

* Wrong contents in file after restore from spliced volume on ND-100 connected streamer.

* A magnetic tape which has never been written to will not be overwritten on a STC magnetic tape drive if mode 'Oe' is used.

* Error in periodic scheduling if the period to the next schedule time stretches over 2 or more month boarders.

* Too few pages given to user when copying a contiguous file to a new user area with 'CE' (Create and Expand) option.

Backup Manager for ND-500/5000 (211226B05) - errors known, but not corrected:

* When Backup Manager creates a temporary mirror to perform an image copy of a directory on a DOMINO/SCSI disk, the error message 'NO MORE TO COPY' will be written on the error device when the backup procedur e is finished. This message can be ignored.

DMA-Server (250089C02) - errors corrected:

* Changing block size in MON ABSTR for BDIO disk.

* Disable writing file mark and rewind on streamer. This was necessary to allow Backup Manager to copy images to more than one streamer.

* Correction of calculation of pages copied when copying files with Backup System to more than one medium.

* Improving timer mechanism and removing error message:
"50010 - operation in progress" when starting BM-Filerestore.

* Backup Manager image copies will sometimes fail at the end of the operation with the error message "50061 - Unknown Program Function".

DMA-Server (250089C02) - errors known, but not corrected:

* Buffer allocation. The DMA-server's transfer buffers may be placed in multiport memory by setting location 10B on DMASEG to 0. The buffers may be placed in ND-100 memory by setting location 10B on DMASEG to 1. The default value is 0. A prepared patch for changing it is included in the standard load file BACKUP-LOAD:MODE.

* Backup-system compatibility. To allow restore of images written to streamer by Backup System, location 11B on DMASEG should be set to 1. Default value for this location is 0. A prepared patch for changing i t is included in the standard load file BAC-KUP-LOAD:MODE.

File Manager (211075C03) - errors corrected:

* When using File Manager version C, the User Environment profile database may increase even when no updates in the SIBAS/R database were necessary.

If the User Environment profile database has already grown too big because of this, you may use the program UE-D-SIP to delete obsolete information stored by File Manager, and then use the program UE-EX-VER -DXX executing functions Unload and Load to reduce the size of the profile database.

Multi-Machine Operator Environment (211073A01) - errors corrected:

* Error in Send-Message in OEM-STATU program.

Multi-Machine Operator Environment (211078A01) - errors known, but not corrected:

* OE-STATU program will not work on machines with names longer than 12 characters.

ND-5400 Microprogram (211273E02) - errors corrected:

ND-5500 Microprogram (211274E02) - errors corrected:

ND-5700 Microprogram (211275F00) - errors corrected:

ND-5800 Microprogram (211276F00) - errors corrected:

* Corrections in the AXI-instruction, which lost floating precision on the operation a**n (n < 0). The correction implies a changed order of operation:
  division prior to multiplication when a < 1
  and division after multiplication when a > 1.

* Corrections in a wait for a semaphore, introducing a 13-second timeout.

* Changes to the Octobus driver to release the execution queue if the microprogram has reserved the queue and the microprogram must wait more than 10 microseconds. This is done to avoid Lock timeout 2132B and timeout 2000B.

* Corrections in CLREAD, NXGET and break.

ND-5830/5850 Microprogram (211847B00) - errors corrected:

* Changes in the algorithm on TSET-cycles in the lock routine. While waiting for a semaphore, TSET was run every 2 microseconds. This is now changed to 50-microsecond intervals to avoid hang situations on the MF bus.

* Changes in timing in the instructions ENTS, ENTM, ENTF, and ENTB to avoid a data cache hit on an instruction channel access when I-error. Previously, this led to inconsistency between cache and memory.

* Corrections in the WEXT instruction adding a new Octobus driver.

* Corrections in a wait for a semaphore, introducing a 13-second timeout.

* Changes to the Octobus driver to release the execution queue if the microprogram has reserved the queue and the microprogram must wait more than 10 microseconds. This is done to avoid Lock timeout 2132B.

* Corrections to logical data memory read, function 10. This is now always run with paging on to allow for segment trace and multi-CPU.

SPRINT Spooling System (211056A06) - errors corrected:

* OpenLAN printers failed with the message 'Device not reserved'.

* The error message "Impossible to send data to printer" occurred too often. If you still get this problem with printers connected to an 8-terminal interface, you should increase the buffer size on the device on input.

* SPRINT could close files opened by other RT-programs if the peripheral file is deleted for an OpenLAN printer.

* When having close to 60 local and remote printer definitions, SPRINT could sometimes fail to start the local printers.

* SSY-SYSF:DATA could be overwritten and cause various problems.

* Printer definitions could be mixed. This could result in listings being printed on the wrong printer.

* Output files could be printed twice.
* The SSY-PICT files on the ND-5000 ES and ND tpServer platforms must reside on user area SPRINT-USER instead of ND-OPERATIONS.
* The remote printer definition on the last entry in SPRINT disappeared after restart.
* Unconverted printouts via SINTRAN spooling now use default form in SPRINT.

SPRINT Standard Printer Drivers (211583A07) - errors corrected:

* Last line on page on FACIT-720/730 was lost.
* Lines with leading spaces were displaced.
* Superscript 2 and 3 had wrong underlining on Canon and Epson.
* Underlining of blank lines did not work.
* Font changes could give wrong character set.
* The FCB control characters had no effect.
* Driver could close files opened by other RT-programs.
* The PSCRIPT (PostScript) driver now supports dual-bin.
* Driver did not select 7/8-bit mode correctly.
* Personal printers did not accept 8-bit output files.
* PSCRIPT (PostScript) output was ignored on QMS-410.
* Underlining appeared too high on some QMS-printers. To solve this, the first parameter in printer info 1 should be set to 1.
* Y with acute accent did not work on PSCRIPT (PostScript).
* Some PSCRIPT (PostScript) printers could hang after a printout.
* Landscape did not work properly on ND-720/730.
* National code 17 (New Norwegian) is now supported.
* Problems with FF-after on LINE-PRINTER is corrected.
* Manual feed on Canon LBP8 now works without having to push the FF-button.
* Driver now allows the TIU to signal busy by sending reset. Driver will no longer stop when receiving 'SLEnetreset' or 'SLEtimedout' from SLIB.

SPRINT Printer Driver for HP LaserJet Printers (211495A07) errors corrected:

* Last line on page on ND-708 was lost.
* Lines with leading spaces were displaced.
* Underlining of blank lines did not work.
* Font changes could give wrong character set.
* Y with acute accent did not work on PCL4.
* Personal printers did not accept 8-bit output files.
* Driver could close files opened by other RT-programs.
* National code 17 (New Norwegian) is now supported.
* OKI-800 gave blank sheet when accessing lower input bin.
* Driver now allows the TIU to signal busy by sending reset. Driver will no longer stop when receiving 'SLEnetreset' or 'SLEtimedout' from SLIB.

User Environment (210518E00) - errors corrected:

All known errors in previous versions are corrected.

User Environment (210518E00) - errors known, but not corrected:

* Using 'Task-in-user-area' to start some products (e.g. NOTIS-WP) may cause the wrong user area to be present after the task is completed. A workaround for this problem is to start NOTIS-WP with the option of clearing the scratch file:
  `@NOTIS-WP %<drawer>,<folder>,<document>`

* When Stop-Terminal/Timeout happens and the user is in a User Environment Menu, the User Environment Scratch file is not reset.

Included in patch file 001000

Software System Reports

Report no.: 37 A
Program: All
Subject: Output to MTAD when line is dead.
Symptom: Hanging terminals, and system may stop in ERRFATAL on level 12

Report no.: 36 A
Program: All
Subject: UE (E) automatic login and ND-500(0) stopped (or error).
Symptom: Erroneosly logged in as SINTRAN user USER-ENVIRONMENT.

Report no.: 35 A
Program: File system
Subject: Error in deleting big files on big directories
Symptom: User entry showing wrong number of pages used, and bit file not properly updated.

Report no.: 34 A
Program: ND-500(0)
Subject: ND-500(0) lock timeout not correctly reported.
Symptom: System loops on level 2

General Modification Reports

Report no.: 3 A
Program: all
Subject: UE-LOGIN fails and "NO SCRATCH FILE" is written.
Reference: SIN-M-164.

Special Modification Reports

Report no.: 2
Program: all
Title: Batch output file opened for "overwrite" and not "write append".
Reference: SIN-M-115.

Report no.: 5
Program: All
Title: How to drop DTR (Data Terminal Ready) , when logging out.
            This applies to special devices not supplied by ND.

Report no.: 6
Program: all
Title: Patch to include terminals using 3270- or VIP-emulator in @TERMINAL-STAT list, or
            when Mon TERST is used.

Reference: SIN-M-62.

Report no.: 7
Program: All
Title: How to remove one linefeed between each document on printer with tractor feed.
Reference: SIN-M-70.

Report no.: 8
Program: ALL
Title: Spooling header with rotating alphabetic characters (instead of *) gives more even we-
           ar on character set.
Reference: SIN-M-72.

Report no.: 9
Program: all
Title: Patch to treat empty spooling form as normal string.
Reference: SIN-M-73.

Report no.: 10
Program: all
Title: Patch to remove the form feed after the spooling header.
Reference: SIN-M-74.

Report no.: 11
Program: all
Title: Patch to remove form feed at the start of the spooling print if the spooling header is
           present.
Reference: SIN-M-75.

Report no.: 12
Program: all
Title: Patch to remove the form feed at the end of the spooling print if the spooling trailer
           is present.
Reference: SIN-M-76.

Report no.: 13
Program: all
Title: Patch to remove the form feed after the spooling trailer.
Reference: SIN-M-77.

Report no.: 14
Program: All
Title: Reduce maximum length of mail messages to 160 characters, to fit into X29-buffer.
Reference: SIN-M-83.

Report no.: 15
Program: VSX
Title: Restart after buffer full on internal devices.
           For implementation and use see report 16.
Reference: SIN-M-043.

Report no.: 17
Program: VSX
Title: Reduce interrupt load from HDLC connected to digital line, (f.ex. British Telecom's
           Kilostream).
Reference: SIN-M-068.

Report no.: 18
Program: VSX
Title: UPNOD 3000 switch, disconnect terminal when logging out.
Reference: SIN-M-125.

Report no.: 19
Program: VSX
Title: UPNOD 2000 switch, disconnect terminal when logging out.
Reference: SIN-M-190.

Report no.: 20
Program: Driver
Title: Special character in 8 Bits modus will be accepted as XON character. The input charac-
             ter is masked with 177b
Reference: SIN-M-152.

Report no.: 21
Program: BP-2000 printer
Title: Paper Instruction Command and Character conversions on BP-2000 printer.
Reference: SIN-M-035. - For implementation and use : see information report 24.

Report no:. 23
Program: DMA-printer
Title: Paper Instruction Command and Character conversion on DMA-printers.
             For implementation an use: see information report 24.

Report no: 25
Program: All
Title: Make monitor call Exabs (335) available on ND-500(0).
Reference: SIN-M-067.

Report no.: 26
Program: All
Title: Problems with 8 bits IO on terminals.
Reference: SIN-M-078.

Report no.: 33
Program: All
Title: Removes 'END OF FILE' message after @COPY command.
Reference: SIN-M-69.

SINTRAN III/N VSX

Special Information Reports

Report no.: 16
Program: VSX
Title: How to implement and use modification report 15 for restart after buffer full on internal devices. (SIN-M-044)

If the buffer of an internal device becomes full then the writing program will be suspended until a reading program completely empties the buffer. Patch Sin-N 15 will restart the writing program when fewer than as pecified number of bytes are left in the buffer. This number is specified as follows:

```
@SINTRAN-SERVICE
@CHANGE-DATAFIELD ldn INPUT YES YES NO
25/nn
.
```

where LDN is the logical unit number for the internal device and NN is the number of bytes remaining when the writing program should be restarted. The initial value is zero which give the same effect as without the patch.

Report no.: 24
Program: DMA-printer
Title:

How to implement and use modification report 21/23 for Paper Instruction Command and character conversions.

When the variable with displacement -14B in the "DMA"-data-field is not equal to zero, paper-instruction line will be enabled and/or conversion from lowercase to uppercase characters will be performed. (Not when in plot mode.)

To set/reset this function, use the SINTRAN-SERVICE-PROGRAM command CHANGE-DATAFIELD.

These values in loc. -14B in data field give:
  0 - Only used on printers where paper-instruction is NOT available.
  1 - Conversion from lowercase to uppercase
 10 - Paper-instruction is enabled
 11 - Conversion from lowercase to uppercase and
       paper-instruction is enabled.

The logical device numbers of the "DMA" data fields are:
  "DMA" printer #1 has logical device no. 1167B
  "DMA" printer #2 has logical device no. 1175B
  "DMA" printer #3 has logical device no. 1343B
  "DMA" printer #4 has logical device no. 1345B

Example to enable paper-instruction line on "DMA"-printer #1 in memory:

```
@SINTRAN-SERVICE-PROGRAM
*CHANGE-DATAFIELD
LOGICAL UNIT NUMBER (OCT): 1167
INPUT OR OUTPUT? I
MEMORY? Y
IMAGE? N
SAVE? N

MEMORY

-14/xxxxxx 10
yyyyyy·
*EXIT
```

To make use of the paper-instruction codes you also need another cable. This cable has part no. 325458 XX rev.B

Two straps on the interface board in the Fujitsu need to be changed:

S04 Is set to 1 - 2. Paper-instruction (PI) line is used for forms control.
S05 Is set to 2 - 3. 7-bit character code is used, so WIF8 line (data bit 8) is ignored.

Practical use of skip commands.

The commands to use in a program to make the printer skip are NOT the same as defined in the Fujitsu manual. The commands are converted in the driver.

Output from a program or a file to make the printer skip:

Skip to channel 1 = 020B (ctrl P) Top of forms.
Skip to channel 2 = 021B (ctrl Q)
Skip to channel 3 = 022B (ctrl R)
Skip to channel 4 = 023B (ctrl S)
Skip to channel 5 = 024B (ctrl T)
Skip to channel 6 = 025B (ctrl U)
Skip to channel 7 = 026B (ctrl V)
Skip to channel 8 = 027B (ctrl W)
Skip to channel 9 = 030B (ctrl X)
Skip to channel 10 = 031B (ctrl Y)
Skip to channel 11 = 032B (ctrl Z)
Skip to channel 12 = 033B (ctrl Æ)

An easy way to test this is to make a file in PED where you use "CTRL O" to install the codes that make the printer skip. To install the codes 21B (CTRL Q) and 23B (CTRL S) you must disable XON/XOFF in both the termina l and Nord (DFLAG).

It is also possible to use skip commands even if you don't have the tape reader installed. Skip format can be down loaded.

If downloading of format is wanted, use a start byte (234B) to tell the printer that the following code is format information, and complete the sequence with a stop byte (237B).

234B 201B 000B 000B 000B 000B 000B 000B 000B 202B
000B 000B 000B 204B 000B 000B 000B 000B 000B 000B
000B 210B 000B 000B 000B 220B 000B 000B 000B 000B
000B 000B 000B 000B 201B 000B 000B 000B 202B 000B
000B 000B 204B 000B 000B 000B 210B 000B 000B 000B
220B 000B 000B 000B 000B 000B 000B 000B 000B 237B

The above sequence will load the following information:
(Two bytes pr. line)

Channel 1 = line 1
Channel 2 = line 5
Channel 3 = line 7
Channel 4 = line 11
Channel 5 = line 13
Channel 6 = line 15
Channel 7 = line 17
Channel 8 = line 19
Channel 9 = line 21
Channel 10 = line 23
Channel 11 = line 25
Channel 12 = line 29

This will be a format with 29 lines.

Software Information Report

Program: all

Title: 'Authentication error' when mounting from a SCO-Unix.

On SCO-Unix client: /etc/rc2.d/s85tcp
Substitute: hostname 'uname -n'.$DOMAIN
with :   hostname 'uname'

Software Error Report

Program: all

Title: Unable to save files from calendar in Windows to SINTRAN.

Symptom: Check path and filename etc.

Reason: Windows uses temporary filenames with characters that SINTRAN does not accept.
          Gives illegal parameter from SINTRAN.
          Will be corrected in version B of NFS.

Software Error Report

Program: all

Title: Unable to save files from EDIT in dos 5.0 to SINTRAN.

Symptom: Illegal path etc.

Reason: Error message from SINTRAN: Odd byte address.
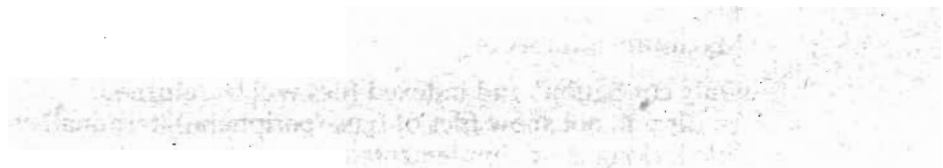   Will be corrected in version B of NFS.

Software Error Report

Program: all

Title: Unable to store from Aldus Pagemaker to SINTRAN.

Symptom: Illegal path etc.

Reason: Trying to store files with 'holes'. Gives NO SUCH PAGE from SINTRAN.
           Will be corrected in version B of NFS.

SINTRAN NFS Support
211299B

Software Information Report

Program: all

Title: Version B00 of SINTRAN NFS Support.
            All known errors in version 211299A is corrected.

            Improved performance:
            Up to 400% on ls command.
            Up to 50% on read/write.

            Limitations:
            Maximum number of ID's defined file passwd:data 64
            Maximum number of exported filesystems 32
            Maximum number of clients per exported filesystem 32
            Maximum number of files per exported filesystem 256

            Only contiguous and indexed files will be returned.
            ls/dir will not show files of type (peripheral),(terminal) etc.
            File locking is not implemented.

Software Error Report

Program: all

Title: Unable to mount filesystem from a second main directory.

Symptom: Mount directory not found.

Reason: Will be corrected in NFS version C01.

Software Information Report

Program: 211495A07

Title: Known but not corrected errors

Version A07 of the SPRINT Printer Drivers (delivered with the C01 platform only) could sometimes give the error messages 'Outside segment bounds' or 'Argument Invalid' after the first printout on OpenLAN Printers.

This is avoided by inserting the protocol name (E.g.: *port=telnet) after the printer name in the AIP-HOSTS:SYMB file. Then restart SPRINT.

E.g.:
```
130.067.006.132 printername *port=telnet
```

Software Information Report

Program: 211583A07

Title: Known but not corrected errors

Version A07 of the SPRINT Printer Drivers (delivered with the C01 platform only) could sometimes give the error messages 'Outside segment bounds' or 'Argument Invalid' after the first printout on OpenLAN Printers.

This is avoided by inserting the protocol name (E.g.: *port=telnet) after the printer name in the AIP-HOSTS:SYMB file. Then restart SPRINT.

E.g.:
```
130.067.006.132 printername *port=telnet
```

Software Information Report

Program: 220801A07

Title: Known bit not corrected errors

Version A07 of the SPRINT Printer Drivers (delivered with the C01 platform only) could sometimes give the error messages 'Outside segment bounds' or 'Argument Invalid' after the first printout on OpenLAN Printers.

This is avoided by inserting the protocol name (E.g.: *port=telnet) after the printer name in the AIP-HOSTS:SYMB file. Then restart SPRINT.

E.g.:
```
130.067.006.132 printername *port=telnet
```

Software Information Report

Program: 220803A07

Title: Known but not corrected errors

Version A07 of the SPRINT Printer Drivers (delivered with the C01 platform only) could sometimes give the error messages 'Outside segment bounds' or 'Argument Invalid' after the first printout on OpenLAN Printers.

This is avoided by inserting the protocol name (E.g.: *port=telnet) after the printer name in the AIP-HOSTS:SYMB file. Then restart SPRINT.

E.g.:
```
130.067.006.132 printername *port=telnet
```

Software Error Report

Program: UE P.server

Title: Problem with non-valid default user area.

Symptom: UE stops when a user with a non-valid default user area tries to login, and if the global default user area is non-valid (or blank).

Reason: An internal error in the UE-server. (Routine auDelSess).

The following procedure should be followed:

* Log in as SINTRAN user area SYSTEM.

* Stop UE, by using the command @UE-FUNC,STOP

* Insert the patch diskette in the floppy drive and enter the directory on the floppy:
  ```
  @ENTER-DIR,250379,<floppy controller>,<floppy unit>
  ```

* Run the mode file:
  ```
  @MODE, (250379:SYSTEM)N-210518D-6:SYMB,,
  ```

* Release the directory and remove the diskette:
  ```
  @RELEASE-DIRECTORY,250379
  ```

* Reset the swapper cache:
  ```
  @ND
  GIVE 1
  TAKE 1
  EXIT
  ```

* Reload User Environment:
  ```
  @MODE (USER-ENVIRONMENT)UE-LOAD:MODE,,,
  ```

* Start User Environment:
  ```
  @UE-FUNC,START
  ```

Software Information Report

Program: ALL

Title: UE version E00

Description of product

USER ENVIRONMENT is a supplement to the operating system. It provides security functions and a personal user environment for high level ND systems from Comma.

Among the security functions are login control for users and servers, access control, log facilities and a user group concept.

The personal user environment includes tailor-made menu systems, language handling (the user will run products in their own language) and personal setup profiles in subsystems (e.g. default printer in NOTIS-WP).

User information may be shared by several machines.

Reasons for new version

Improved performance.

Improved password security.

New functionality using IP addresses.

All error messages are routed through the SINTRAN III Watchdog.

Modifications since version D

The most important changes are:

* The UE server and the login program now run on the ND-5000 part of the system. This means better performance, particularly when logging in.

* The password mechanisms are improved to increase security:
  - The old password must now be entered when changing password.
  - Possibility to prevent changing the password back to the previous password (or some of the later passwords).
  - Possibility for to get system-generated passwords.
  - Possibility to set a minimum time between password changes.

* Logging IP address (on terminal or PC) in the activity log and show it on UE-FUNC, TERMINAL-STATUS.

* Possibility to set access control on IP address (similar to terminal number).

* Log remote system ID (when running on a TAD) in the activity log and show it on UE-FUNC,TERMINAL-STATUS.

* All error messages from User Environment are now sent to the SINTRAN III Watchdog.

Errors corrected

All reported errors in User Environment version D are corrected.

Errors known but not corrected

Using 'Task-in-user-area' to start some products (e.g. NOTIS-WP) may cause the wrong user area to be present after the task is completed. This has not been corrected.

A workaround for this problem is to start NOTIS-WP with the option of clearing the scratch file:

```
@NOTIS-WP %<drawer>,<folder>,<document>
```

The text on the screen when entering the IP address choice in UE-PMAN is "Terminal Profile".

Software Error Report

Program: UE-500:DOM

Title: Error when using ueChAcc-call

Symptom: The UE-PLIB call ueChAcc returns wrong access codes.

Reason: A misplaced AND-ing in the server.

The patch file contains patches for SIS report 3, 5 and 7.

The following procedure should be followed:

* Log in as SINTRAN user area SYSTEM.

* Stop UE, by using the command @UE-FUNC,STOP

* Insert the patch diskette in the floppy drive and enter the directory on the floppy:
  `@ENTER-DIR,250379,<floppy controller>,<floppy unit>`

* Run the mode file:
  `@MODE,(250379:SYSTEM)N-210518E-3:SYMB,,`

* Release the directory and remove the diskette:
  `@RELEASE-DIRECTORY,250379`

* Reset the swapper cache:
  ```
  @ND
  GIVE 1
  TAKE 1
  EXIT
  ```

* Reload User Environment:
  `@MODE (USER-ENVIRONMENT)UE-LOAD:MODE,,,`

* Start User Environment:
  `@UE-FUNC,START`

Software Error Report

Program: UE-500:DOM

Title: Impossible to change password in a local domain with UE-E.

Symptom: When a supervisor tries to change password for another user, the password will not be changed on the slave machine(s).

Reason: In the new functionality with checking of old passwords, this situation was not taken into consideration.

To get patchfile, see report no. 3.

Software Error Report

Program: UE-500:DOM

Title: Wrong IP-adresses in UE-FUNC,TERMINAL-STATUS.
            NB! only relevant for ES or TP version C01.

Symptom: Sometimes you can get wrong IP-adresses on some entries when using UE-FUNC,
            TERMINAL-STATUS.

Reason: Missing initialization on login in some cases.

            The following procedure should be followed:

            * Log in as SINTRAN user area SYSTEM.

            * Stop UE, by using the command @UE-FUNC,STOP

            * Insert the patch diskette in the floppy drive and enter the directory on the floppy:
               `@ENTER-DIR,250379,<floppy controller>,<floppy unit>`

            * Run the mode file:
               `@MODE,(250379:SYSTEM)N-210518E-6:SYMB,,`

            * Release the directory and remove the diskette:
               `@RELEASE-DIRECTORY,250379`

            * Reset the swapper cache:
               ```
               @ND
               GIVE 1
               TAKE 1
               EXIT
               ```

            * Reload User Environment:
               `@MODE (USER-ENVIRONMENT)UE-LOAD:MODE,,,`

            * Start User Environment:
               `@UE-FUNC,START`

Software Error Report

Program: UE-500:DOM

Title: Problem with non-valid default user area.

Symptom: UE stops when a user with a non-valid default user area tries to login, and if the global default user area is non-valid (or blank).

Reason: An internal error in the UE-server. (Routine auDelSess).

To get patchfile, see report nr. 3.

Software Information Report

Program: 211699B00

Title: New release

Reasons: * The new hardware for the ND-5000 is now being utilized.

         * The ND-100 CPU load is reduced compared with previous version of the product, due to the fact that the Transport Server / X.25 has been moved inside the MF WAN controller. Nucleus is used instead of XMSG for pr ocess to process communication between the 5000 CPU and MF WAN controller.

         * High performance. It's approximately 5 - 10 times faster than the PIOC X.25 (for bi-trates from 64 Kbps and above).

         * This product allows 64 simultaneous Transport connections/ 64 simultaneous X.25 connections.

         * Transport classes 4/2/0 over X.25.

New functions/commands

A better algorithm is implemented in the X.25 domino server to take care of the used resources. The number of CRB is increased in the X.25 domino to avoid the server congestion and to give the user the possibility to have more opened sessions.

Errors corrected

The error : "server congestion" which leads to a system stop (All the nucleus ressources will be used) is corrected in this version.

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