NAF - Check Spool File - Function 40

You can check the spool file for consistency.

When you invoke this function, the **Check Spool File** window appears.

```
Time 09:38:17         *** Natural Spool Administration ***      Date 2002-10-24
User SAG                           M e n u                      File 7/411
+------- Check  Spool File 7/411 --------+
!                                        !        Information
!   1     Report Data Area          !
!   2     Cluster                   !        20 Cross-Reference
!   3     Relationships             !        21 Statistics
!   4     Sync. Flags for Spool Server  !    22 Look at Spool File
!   5     NAF Parameter Module      !        23 CALLNAT Handling
!   6     Common Memory Pool        !
!   7     Status of Spool Servers   !
!                                        !
!                                        !        Control Functions
!                                        !
!                                        !        40 Check Spool File
!                                        !        41 Logging Data
!   .     Exit                      !        42 Create Test Reports
!                                        !        43 Delete Reports by Date
!   Command / _  /                  !
+----------------------------------------+
Enter command, or press a PF-key.
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit  Repor Clust Relat Sync. NAF P Commo Statu        Canc
```

This function can be useful if reports with status INCO are detected. You can select report data areas to be checked for consistency.

The Cluster function can be deactivated.

This chapter covers the following topics:

- Report Data Area - Function 40.1

- Cluster - Function 40.2

- Relationships - Function 40.3

- Synchronize Flags for Spool Server - Function 40.4

- NAF Parameter Module - Function 40.5

- Common Memory Pool - Function 40.6

- Status of Spool Server - Function 40.7

Note:
Under BS2000/OSD, the **Check Spool File** window provides additional functions.

Report Data Area - Function 40.1

When you invoke this function, the following checks are performed for each record with status `In Use` which has a pointer to another group:

- Whether the group exists to which the record points:

  ○ If the group does not exist, the Check Spool File function issues a corresponding error message.

  ○ If the group exists, the check below is performed.

- Whether the status of the record is equal to `In Use`:

  ○ If the status is not equal to In Use, the Check Spool File function issues a corresponding error message.

  ○ If the status is equal to `In Use`, the check below is performed.

```
Natural Spool Administration ***     Date 2002-10-24
User SAG                           M e n u                      File 7/411
+------- Check  Spool File 7/411 ---------+
!                                         !          Information
! +-------------------------------------+ !
! I Records 1426 - 1500 completed.    I ! !    20 Cross-Reference
! +-------------------------------------+ !    21 Statistics
! +-------------------------------------+ !    22 Look at Spool File
! I Check completed normally.         I ! !    23 CALLNAT Handling
! +-------------------------------------+ !
!                                         !
!                                         !
!                                         !          Control Functions
!                                         !
!                                         !    40 Check Spool File
!                                         !    41 Logging Data
!  .     Exit                             !    42 Create Test Reports
!                                         !    43 Delete Reports by Date
!   Command / 1  /                        !
+-----------------------------------------+
Press Enter to continue.
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit  Repor Clust Relat Sync. NAF P Commo Statu       Canc
```

In case of an error, a protocol is written to the spool file. You will then be asked for the name of a logical printer.

Cluster - Function 40.2

When you invoke this function, the integrity of the clusters is checked.

Note:
Usage of clusters can be deactivated with Function 30.5. In this case, Function 40.2 cannot be invoked.

This function reads all objects and checks whether they belong to existing clusters. It also checks whether each object belongs to exactly one cluster.

```
Time 09:38:17        *** Natural Spool Administration ***      Date 2002-10-24
User SAG                          M e n u                      File 7/411
+------- Check  Spool File 7/411 --------+
!                                        !      Information
!  1     Report Data Area         !
!  2     Cluster                  !      20 Cross-Reference
!  3     Relationships            !      21 Statistics
! +-----------------------------------+ !      22 Look at Spool File
! I Check completed normally.       I ! !      23 CALLNAT Handling
! +-----------------------------------+ !
!                                        !
!                                        !
!                                        !      Control Functions
!                                        !
!                                        !      40 Check Spool File
!                                        !      41 Logging Data
!     .     Exit                   !      42 Create Test Reports
!                                        !      43 Delete Reports by Date
!   Command / 2  /                 !
+---------------------------------------+
Press Enter to continue.
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit  Repor Clust Relat Sync. NAF P Commo Statu       Canc
```

In case of an error, a protocol is written to the spool file. You will then be asked for the name of a logical printer.

Relationships - Function 40.3

When you invoke this function, the **Check/Recover Relationships** window appears.

```
Time 09:38:17        *** Natural Spool Administration ***      Date 2002-10-24
User SAG                          M e n u                      File 7/411
+---- Check/ Recover  Relationships -----+
!                                        !         Information
!   1      Check                         !
!   2      Recover with confirmation     !      20 Cross-Reference
!   3      Recover without confirmation  !      21 Statistics
!                                        !      22 Look at Spool File
!                                        !      23 CALLNAT Handling
!                                        !
!                                        !
!                                        !
!   .      Exit                          !         Control Functions
!                                        !
!                                        !      40 Check Spool File
!                                        !      41 Logging Data
!                                        !      42 Create Test Reports
!                                        !      43 Delete Reports by Date
!   Command / _  /                       !
+----------------------------------------+
Enter command, or press a PF-key.
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help  Menu  Exit  Check Recov Recov                               Canc
```

You can choose whether you want to check the relationships (Option 1) or whether you want to recover them with or without confirmation (Options 2 and 3).

The following checks are performed for all three options:

- First, a bottom-to-top check is performed. The check starts with physical printers. Next, all allocations, logical printers and user profiles are checked. However, you can specify that the check is to start with a specific object type. For example, when you specify logical printer as start object, only the relation between logical printers and user profiles is checked. For each object, a check is made whether it is referenced in one of the corresponding object types. If this is not the case, this object may be deleted.

- Next, a top-to-bottom check is performed. The check starts with user profiles. A check is made whether the objects referenced in this object exist on the spool file. If not, this is either logged (see Option 1) or the object is modified (see Option 2 and Option 3).

Since this function causes a large number of Adabas calls, it should only be started when an error occurs (for example, unexplainable printouts on wrong devices). It is recommended that you first use Option 1 (check).

Check Relationships - Option 1

When you select this option, you can choose a start value for the bottom-to-top check in a window: printer(s), allocation table or logical printer(s).

```
Time 09:38:17        *** Natural Spool Administration ***       Date 2002-10-24
User SAG                         M e n u                        File 7/411
+---- Check/ Recover  Relationships -----+
! Select type for start bottom-top check !        Information
!                                        !
!   1       Printer                      !        20 Cross-Reference
!   2       Allocation Table             !        21 Statistics
!   3       Logical Printer              !        22 Look at Spool File
!                                        !        23 CALLNAT Handling
!                                        !
!                                        !
!                                        !
!                                        !        Control Functions
!   .     Exit                           !
!                                        !        40 Check Spool File
!                                        !        41 Logging Data
!                                        !        42 Create Test Reports
!                                        !        43 Delete Reports by Date
!   Type    / _ /                        !
+----------------------------------------+
Enter command, or press a PF-key.
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit   Prin  Allo  Logi                               Canc
```

The result of the check is printed. You are asked for the name of a logical printer.

Recover Relationships with Confirmation - Option 2

When you select this option, you can choose a start value for the bottom-to-top check in a window: printer(s), allocation table or logical printer(s).

The relationship is checked. Objects that are not related to another object are deleted. Objects that refer to non-existing objects are modified. You have to confirm the deletion/modification for each object.

Recover Relationships without Confirmation - Option 3

When you select this option, you can choose a start value for the bottom-to-top check in a window: printer(s), allocation table or logical printer(s).

The relationship is checked. Objects that are not related to another object are automatically deleted. Objects that refer to non-existing objects are automatically modified. You are not asked to confirm the deletion/modification for each object.

Synchronize Flags for Spool Server - Function 40.4

The spool server options you specify (see Function 30.5) result in a synchronization of the spool file. To prevent different spool servers that are currently working on the spool file from executing the same function, the spool server records the date and time when a function was executed. Before a spool server executes the same function once more, it checks whether the defined time interval has passed.

When you invoke Function 40.4, the **Server Synchronization** screen appears:

```
Time 09:51:44        *** Natural Spool Administration ***       Date 2002-10-24
User SAG                    Server Synchronization              File 7/411

Cmd Server              current    Time  Last check executed    Next check
    Option              Status     Int.  at NAT-/CPU-Time        for object
--- ------------------  ---------- ----- ------------------      -----------
    Delete reports
 _  by Retention period activated   5    --        --           unused

    Start reports in
 _  status WAIT         activated   5    --        --           unused

    Restart printers in                 2002-07-08 14:44:43
 _  status INOP (B2000) activated  10    2002-07-08 14:44:40    --

    Start reports by                     2002-09-02 16:08:21
 _  time option (B2000) activated  10    2002-09-02 16:08:18    --

 _  BS2000 Monitor      deactived  --
                                        --        --           --
Enter a command, or press a PF-key.
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help  Menu  Exit                                                    Canc
```

For each spool server option listed, you can delete the date and time of the last check, assign the current date and time, or delete the start value for the next object check.

The following line commands are available:

R	Reset the values in the `Last Check` fields to the current date and time.
D	Delete the time and date values in the `Last Check` fields.
O	Delete the value in the `Next Check` field.

NAF Parameter Module - Function 40.5

When you invoke this function, data from the NAF parameter module are shown.The values in the example screen below apply to the operating system BS2000/OSD and the parameter module `NAFB2P`*n*:

```
Time 10:19:47         *** Natural Spool Administration ***      Date 2002-10-24
User SAG                         M e n u                        File 7/411
+------------------------NAF Parameter Module------------------------+
!              Parameters for Intertask Communication               !
!   Event ID1 NAF41V1    Event ID2 NAF41V2   Monitor Event ID NAF41M1  !
!   CMP name  NAF41V1    CMP size    61 KB      Usage of ISO NO      !
!   BS2 form    --       RSO form    --         RSO protocol OFF     !
!   FSEC      NO         FNAT      YES          MAXERR       5       !
!                                                                   !
!              Parameters for Monitor Task                          !
!   STACK=(LOGON SYSNA410;SVPMON01)                                 !
!                                                                   !
!              Parameters for Spool Server                          !
!   No DCAM App  Natural Stack Data                                 !
!    1 SP01     STACK=(LOGON SYSNA410;SVPBS201)                     !
!    2 SP02     STACK=(LOGON SYSNA410;SVPBS201)                     !
!    3 SP03     STACK=(LOGON SYSNA410;SVPBS201)                     !
!    4 SP04     STACK=(LOGON SYSNA410;SVPBS201)                     !
!    5 SP05     STACK=(LOGON SYSNA410;SVPBS201)                     !
+-------------------------------------------------------------------+
Enter command, or press a PF-key.
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
          Menu  Exit                              -      +
```

The values in the example screen below apply to the TP monitor CICS or IMS TM and the parameter module NAFPARMC or NAFPARMI:

```
Time 10:23:04          *** Natural Spool Administration ***      Date 2002-10-24
User SAG                         M e n u                        File 7/411
+------------------------NAF Parameter Module------------------------+
!                 Parameters for CICS interface                     !
!                                                                   !
!   CICS Transaction ID  ..................... NA41                 !
!   CICS SYSID  ............................... --                  !
!   CICS Terminate Task  ..................... --                   !
!   CICS Initalization EXIT  ................. Yes                  !
!   CICS SYSID for initalization exit  ........ FCT4                !
!   CICS Initalization messages to console  ... --                 !
!   CICS Initalization messages to logging data No                 !
!                                                                   !
!                                                                   !
!                 Parameters for IMS TM interface                   !
!                                                                   !
!   IMS BMP Transaction ID  ................... --                  !
!   IMS BMP JCL Member Name  .................. --                  !
!   IMS BMP Wait for Input  ................... --                  !
+-------------------------------------------------------------------+
Press Enter.
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
          Menu  Exit                                              CANC
```

Common Memory Pool - Function 40.6

This function is only available under BS2000/OSD.

When you invoke this function, information on the size and contents of the common memory pool is shown.

```
Time 10:17:14          *** Natural Spool Administration ***       Date 2002-10-24
User SAG                        Common Memory Pool                 File 7/411

 +------------------------- Information -----------------------------------+
 I Pool ID NAF41V1       Pool address 00020000     Pool version 4.1     I
 +------------------------------------------------------------------------+
 I Defined    pool size    61 KB              Max. No. of entries  002043  I
 I Allocated pool size    64 KB              No. of free entries  002043  I
 I Usable    pool size    63 KB              No. of used entries  000000  I
 I                                           No. events in bourse 0       I
 +------------------------------------------------------------------------+
 I                         CPU Time                  Natural Time          I
 I Initialized by task 3126 2002-10-24 09:37:48      2002-10-24 09:37:45   I
 I Locked by task     --                                                   I
 +------------------------------------------------------------------------+
 +------------------------- Functions -------------------------------------+
 I 1  Display Common Memory Pool       2  Reset Common Memory Pool      I
 I .  Exit                                                              I
 I    Command / _ /                                                     I
 +------------------------------------------------------------------------+
Enter command, or press a PF-key.
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help  Menu  Exit                                             Canc
```

You can display and/or reset the common memory pool. When you select one of these options, you have to enter the password for the spool file.

Display Common Memory Pool - Option 1

When you select this option, the following screen appears:

```
Time 10:18:05        *** Natural Spool Administration ***      Date 2002-10-24
User SAG                  Entries in Common Memory Pool        File 7/411

 Pool ID NAF41V1   Version 4.1     locked by task NO

 Entry No.    Address    Phy.Prtr  FSPOOL       FNAT        FSEC
 ---------   --------   --------  ----------   ----------  -----------
 1           001E0004   DR1171    7/33         7/32        7/32









   Press 'Enter' to continue
   Command ===>
   Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
            Menu  Exit                                                    Canc
```

Reset Common Memory Pool - Option 2

When you select this option, the following window appears:

```
Time 10:19:11        *** Natural Spool Administration ***      Date 2002-10-24
User SAG                       Common Memory Pool              File 7/411
                             +---------------------------------------+
 +------------------------- Informa !                                       !
 I Pool ID NAF41V1        Pool addr ! When resetting the common memory pool, !
 +------------------------------- !                                       !
 I Defined   pool size    61 KB   !   - All entries are removed from      !
 I Allocated pool size    64 KB   !     the common memory pool .          !
 I Usable    pool size    63 KB   !                                       !
 I                                !                                       !
 +------------------------------- !  - All printers which are defined on  !
 I                       CPU Time !    the spool file 7/411        and    !
 I Initialized by task 3126 2002-10- !  which are used in the common       !
 I Locked by task      --         !    memory pool are reset to status    !
 +------------------------------- !    FREE .                             !
 +------------------------- Funct !                                       !
 I 1  Display Common Memory Pool  !                                       !
 I .  Exit                        !                                       !
 I    Command / 2 /               ! Start Reset function (Y /  N) .. N   !
 +----------------------------- +---------------------------------------+

Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help  Menu  Exit                                                    Canc
```

To reset the common memory pool, specify Y and press Enter.

All entries are then removed from the common memory pool, and all printers with an entry in the common memory pool are reset to the status FREE.

Status of Spool Server - Function 40.7

This function is only available under BS2000/OSD.

When you invoke this function, the current status of the spool server(s) and monitor task is shown.

```
Time 10:32:10        *** Natural Spool Administration ***      Date 2002-10-24
User SAG                    Status of Spool Servers           File 7/411

 No.    Application   Type NEAR     Type ISO
 --     ------------  ----------    --------
  1     SP01          inactive      inactive
  2     SP02          inactive      inactive
  3     SP03          inactive      inactive
  4     SP04          inactive      inactive
  5     SP05          inactive      inactive
  6     SP06          inactive      inactive
  7     SP07          inactive      inactive
  8     SP08          inactive      inactive
  9     SP09          inactive      inactive
 10     SP10          inactive      inactive
 11     SP11          inactive      inactive    +---------------------------+
 12      --            --            --         I The Natural Spool Monitor  I
 13      --            --            --         I is currently inactive       I
 14      --            --            --         +---------------------------+

Enter command, or press a PF-key.
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
          Menu  Exit  Refre                  -     +                    CANC
```