

# 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 -----+
!
!           Report Data Area           !           Information
!   1       Cluster                    !           20 Cross-Reference
!   2       Relationships                !           21 Statistics
!   3       Sync. Flags for Spool Server !           22 Look at Spool File
!   4       NAF Parameter Module        !           23 CALLNAT Handling
!   5       Common Memory Pool          !
!   6       Status of Spool Servers     !
!   7
!
!           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
_ status INOP (B2000) activated   10     2002-07-08 14:44:43
                    2002-07-08 14:44:40  --

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

_ BS2000 Monitor      deactivated --      --      --      --

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 NAFB2Pn:

```

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      --
+-----+
+----- Functions -----+
I 1 Display Common Memory Pool                2 Reset Common Memory Pool        I
I . Exit
I 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

```

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  FSPPOOL   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
+-----+-----+-----+-----+
I CPU Time ! - All printers which are defined on !
I Initialized by task 3126 2002-10- ! the spool file 7/411 and !
I Locked by task -- ! which are used in the common !
+-----+-----+-----+-----+
I FREE . !
+-----+-----+-----+-----+
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   --             --         --         +-----+
13   --             --         --         I The Natural Spool Monitor I
14   --             --         --         I is currently inactive   I
                                     +-----+

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
    
```