

Layout of Spool File - Function 30

When you invoke this function, the Layout of Spool File window appears.

```

Time 16:18:57          *** NATURAL SPOOL Administration ***          Date 1997-07-21
User  SAG              M e n u                                     SPMMEN01
                                +-----Layout of Spool File 10 / 62-----+
Administration              !                                     !
                                !   1       Format                       !
10 Reports / Queues         !   2       Reset                       !
11 Devices                  !   3       Increase                      !
12 Abstracts                !   4       Recover Password             !
13 Applications             !   5       Set Spool Option              !
                                !   6       Modify Password              !
                                !   7       Access authorization          !
Maintenance                 !   8       Display Last Modification    !
                                !                                     !
30 Layout of Spool File    !                                     !
31 Objects                  !                                     !
32 Mass Update             !                                     !
33 Hardcopy Allocations    !   .       Exit                          !
                                !                                     !
                                !   Command / _ /                          !
                                +-----+
Enter command or press PF key.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Entr  Help  Menu  Exit  Forma Reset Incre Recov Set S Modif Acces Displ Canc

```

This section covers the following topics:

- Format - Function 30.1
- Reset - Function 30.2
- Increase - Function 30.3
- Recover Password - Function 30.4
- Set Spool Option - Function 30.5
- Modify Password - Function 30.6
- Access Authorization - Function 30.7
- Display Last Modification - Function 30.8

Format - Function 30.1

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

```

Time 16:18:57          *** NATURAL SPOOL Administration ***          Date 1997-07-21
User  SAG              M e n u                                     SPMMEN01
                                +----- Format Spool File 10 / 62 -----+
Administration              !                                     !
                                !           Layout of Report Area           !
10 Reports / Queues         !                                     !
11 Devices                  !                                     !
12 Abstracts                !   Number of Groups ..... 100___ !
13 Applications            !   Number of Records/Group .. 3___ !
                                !                                     !
Maintenance                 !                                     !
                                !           Password           !
30 Layout of Spool File    !                                     !
31 Objects                  !                                     !
32 Mass Update              !   Password .....           !
33 Hardcopy Allocations    !   New Password .....       !
                                !                                     !
                                +-----+
Modify values.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Entr  Help  Menu  Exit  Forma Reset Incre Recov Set S Modif Acces Displ Canc

```

In this window, enter the following information:

- The number of groups to be created.
- The number of records for each group.
- An initial password, "SYSPool".
- A new password. This new password is required the first time the spool file is formatted; either to change the initial password, or to confirm it. Thereafter, it is only necessary if the password is to be changed.

Note:

When formatting the spool file, all existing reports will be deleted. All existing allocations, profile and printer definitions will be kept.

After the spool file has been (re-)formatted, restarting the Natural session is not required .

The following sections provide a general idea as to what values should be taken into account when formatting the spool file. They are not rules which must be followed.

Estimation of Number of Groups

The number of groups and records per group in the spool file affects the number of reports that can be held on the spool file at a time. When allocating space for a report, NATSPOOL acquires a group of records from the spool file even if the output would fit into a single record. Each record of the spool file which is to contain lines of output is 2 KB long.

Therefore, if the average output is small (not greater than 2 KB), it is recommended that only one record per group be defined and as many groups as reports are expected on the spool file at one time.

To calculate the output size, it should be taken into account that each line is compressed by NATSPOOL in such a way that trailing blanks are skipped before the lines are stored on the spool file. Lines which may be considered as blank (that is, which do not contain text) contain a printer control character. The trailing blanks will be skipped, but the printer control character will be stored.

If a report has been printed and deleted (DISP=D in the logical printer), its space is re-used by NATSPOOL. This means that it would be sufficient to define only one group with only one record if small reports (not greater than 2 KB) are created one after the other. However, if such a report is created before the previous one is printed (deleted), a NATSPOOL "FILE FULL" condition occurs.

In general, the number of groups required depends on the size of each report, the number of records per group, and the number of reports to be held on the spool file at a time.

The number of records per group is:

$$\text{records per group} = \frac{\text{average number of characters per report}}{2 \text{ KB}}$$

The number of groups required by a single report is:

$$\text{number of groups} = \frac{\text{size of report in KB}}{\text{number of records per group}}$$

The total number of groups required to ensure space for reports which are to be held at one time is approximately:

$$\text{total number of groups} = \text{number of reports} * \frac{\text{average size of reports in KB}}{\text{number of records per group}}$$

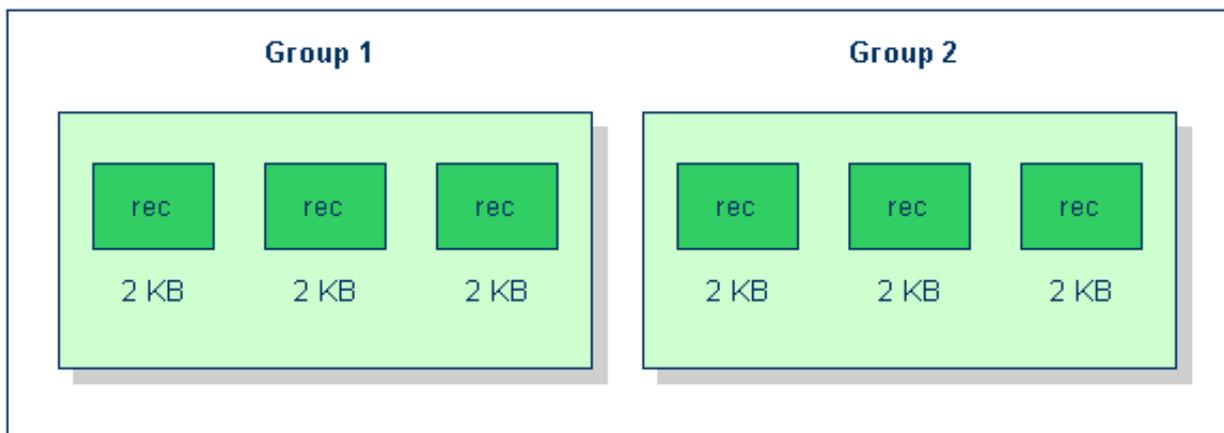
Storage Requirements

When NATSPOOL allocates space for a report, it acquires not one record, but a group of records. After the first group is filled, NATSPOOL acquires another group, and so on. The number of groups and records per group in the spool file affects the amount of storage allocated on the spool file.

$$\text{storage} = (\text{number of groups}) * (\text{number of records per group}) * 2 \text{ KB}$$

Example:

There are two groups, each containing three records.



Since each record which is to contain lines of output is 2 KB long, the amount of storage required for output is calculated as follows:

$$\text{storage} = (2 \text{ groups}) * (3 \text{ records per group}) * 2 \text{ KB}$$

The required amount of storage in this example is 12 KB.

Formatting in Batch Mode

If the spool file is to be formatted in batch mode, the program SPPBATFO can be used. This program requires the following input:

- the number of groups (N6),
- the number of records per group (N6),
- the password (A8).

Example - Execution of SPPBATFO under OS/390:

```
//SPPBATFO JOB CLASS=G,MSGCLASS=X
//FORMAT EXEC PGM=NATBATCH,PARM='IM=D,FSPOOL=(XXX,XXX)'
//STEPLIB DD DSN=NATURAL.V23.LOAD,DISP=SHR
// DD DSN=ADABAS.V61.LOAD,DISP=SHR
//DDCARD DD NATURAL.V23.SOURCE(ADAPARM),DISP=SHR
//CMPRINT DD SYSOUT=X
//CMSYNIN DD *
LOGON SYSPPOOL
SPPBATFO
100,5,xxxxxxxxxx
FIN
```

Example - Execution of SPPBATFO under VSE/ESA:

```
//JOB SPPBATFO
//OPTION LOG
//ASSGN SYSLST,00E
//EXEC PROC=ADAV61LB
//EXEC PROC=ALL23LB
//ASSGN SYS000,READER
//EXEC NATBATCH,SIZE=NATBATCH,PARM='SYSRDR'
FSPOOL=(xxx,xxx),IM=D
/*
ADARUN DA=xxx,SVC=xxx,TNAE=999999,TT=99999
/*
LOGON SYSPPOOL
SPPBATFO
100,5,xxxxxxxxxx
FIN
/*
/&
```

Example - Execution of SPPBATFO under BS2000/OSD:

```
/.FORMAT LOGON
/REMARK *****
/REMARK *** Format Spool File with ***
/REMARK *** 100 Groups, 5 Records ***
/REMARK *****
/SYSFILE SYSLST=LI.LST.FORMAT
/SYSFILE SYSOUT=LI.OUT.FORMAT
/SYSFILE SYSDTA=(SYSCMD)
/EXEC NAT23B
AUTO=ON,ETID=' ',IM=D
/EOF
LOGON SYSPPOOL
SPPBATFO
100,5,xxxxxxxxxx
FIN
/SYSFILE SYSLST=(PRIMARY)
/SYSFILE SYSOUT=(PRIMARY)
/LOGOFF NOSPOOL
```

Note:

xxxxxxxx = current password

Reset - Function 30.2

With the Reset function, the spool file is reset to its original status. All definitions concerning profiles, printers, etc. are deleted, and the spool file is newly formatted.

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

This window is similar to the Format Spool File window, and the same information has to be entered (see Format - Function 30.1).

Note:

Before this function is executed, you are prompted for confirmation (Y/N).

Increase - Function 30.3

During operation, the spool file may be increased by a certain number of new groups. Existing reports are not deleted by this function. The record-to-group assignment remains the same. The execution of this function might be useful after error message NAT1556 (spool file is full).

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

```

16:24:42          *** NATURAL SPOOL Administration ***          Date 1997-07-21
User  SAG                               M e n u                               SPMEN01
      Administration          +----- Increase Spool File 10 / 62 -----+
      10 Reports / Queues     ! Current layout of report data area !
      11 Devices              ! Number of Groups ..... 100 !
      12 Abstracts           ! Number of Records/Group .. 3 !
      13 Applications         ! ----- !
      Maintenance            ! New layout of report data area !
      30 Layout of Spool File ! New number of groups .... _____ !
      31 Objects              ! Number of records/Group .. 3 !
      32 Mass Update         ! ----- !
      33 Hardcopy Allocations ! Password ..... !
      +-----+
Modify values.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Entr  Help  Menu  Exit  Forma  Reset  Incre  Recov  Set  S  Modif  Acces  Displ  Canc
    
```

Recover Password - Function 30.4

If you have forgotten your password, you can invoke this function to reset the password to the original default password SYSPPOOL.

The password is immediately reset as soon as you invoke this function.

Note:

This function can only be executed by the user who last changed the password.

Set Spool Option - Function 30.5

When you invoke this function, the Spool Option window appears.

```

Time 16:26:09          *** NATURAL SPOOL Administration ***          Date 1997-07-21
User  SAG              M e n u                                     SPMMEN01
                                     +----- Spool Option 10 / 62 -----+
Administration
!
! 1      Spool File Options
!
10 Reports / Queues    ! 2      Defaults and Models
!
11 Devices             ! 3      General Spool Server Options
!
12 Abstracts          ! 4      BS2000 Options
!
13 Applications        ! 5      CICS Options
!
!                    ! 6      IMS/DC Options
!
!                    !
Maintenance
!
!
!
!
30 Layout of Spool File
!
31 Objects
!
32 Mass Update
!
33 Hardcopy Allocations
!      .      Exit
!
!      Command / _ /
!
+-----+

Enter command or press PF key.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Entr Help Menu Exit Spool Defau Gener BS200 CICS IMS/D Canc

```

Note:

Display of the BS2000/OSD, CICS and IMS/DC options in this window (options 4 to 6) depends on your specification in the Spool File Options window.

Spool File Options - Option 1

When you select this option, the Spool File Options window appears.

```

Time 16:26:09          *** NATURAL SPOOL Administration ***          Date 1997-07-21
User  SAG                               M e n u                               SPMMEN01
                                           +----- Spool File Options 10 / 62 -----+
Administration
! Operators ..... N !
! -----!
10 Reports / Queues      ! Type of Hardcopy Allocation (U/T) T !
11 Devices              ! using mask                          !
12 Abstracts            ! for positions                        12345678 !
13 Applications         ! -----!
! Userstatistics        (Y/N)      N !
! Clusters              (Y/N)      N !
Maintenance
! -----!
! Logging for objects   (Y/N)      N !
! Logging for reports   (Y/N)      N !
! -----!
30 Layout of Spool File ! Different Op./TP systems (Y/N) Y !
31 Objects              ! BS2000: Y CICS: Y IMS/DC: Y (Y/N) !
32 Mass Update          ! -----!
33 Hardcopy Allocations ! Password                             !
! -----+

Modify values or press PF-Key.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Entr  Help  Menu  Exit  Spool Defau Gener BS200 CICS  IMS/D                               Canc
    
```

In this window, you can define the following settings globally for the spool file (not per user):

- The type of hardcopy allocation: T=via terminal ID, U=via user ID.
- The mask for hardcopy allocation. This allows you to specify a hardcopy allocation for a group of terminals/users. To do so, you can mask any position of the name (terminal or user, depending on the type of hardcopy allocation) with any character other than a question mark (?). When the hardcopy allocation is performed, the positions in the name you have masked are not evaluated. For example, all users on the same floor are to use the same printer and the terminal ID is used. The system administrator defines terminal IDs in which the positions 5 and 6 indicate the floor. In this case, the type of hardcopy allocation is T and the mask is #####_### (the positions 1-4 and 7-8 will be ignored). The allocation is done via a logical printer with the name "- - -01- -" for the first floor. The corresponding definitions can now be allocated to this printer.
- Whether user statistics are to be activated (Y/N). When activated, the number of reports, pages and lines is output for each user.
- Whether usage of clusters is to be activated (Y/N). See also Clusters - Function 31.7.
- Whether logging for objects is to be activated (Y/N). When activated, the last 12 modifications are logged for each object. Using Function 41, you can check the log.
- Whether logging for reports is to be activated (Y/N). When activated, all report actions are logged. For reasons of performance, this function should only be activated if required.
- Whether the current spool file is to be used by different operating systems / TP monitors (Y/N).
- When different operating systems / TP monitors are to be used, you have to specify which ones are to be used: BS2000/OSD, CICS and/or IMS/DC (Y/N).

You have to enter a password to execute this function.

Defaults and Models - Option 2

In certain environments (such as a test environment or Entire Output Management), it is not required to define different logical printers. In this case, you can define a logical printer as default printer. This default printer will always be used when no value or an invalid value is specified.

When you have many objects with the same values, it may be helpful to predefine these recurring values using models.

When you select this option, the Defaults and Models window appears.

```

Time 16:26:09          *** NATURAL SPOOL Administration ***          Date 1997-07-21
User  SAG              M e n u                                     SPMEN01
                                +----- Defaults and Models 10 / 62 -----+
      Administration          !                                     !
                                ! Define/modify logical printer          !
      10 Reports / Queues     ! to be used as default (Y/N) N          !
      11 Devices              ! ----- !
      12 Abstracts           !           Models                       !
      13 Applications         !                                     !
                                ! Please mark object type(s)           !
                                !                                     !
      Maintenance            ! _ User Profile(s)                     !
                                ! _ Logical Printer(s)                  !
      30 Layout of Spool File ! _ Allocation Table                    !
      31 Objects              ! _ Printer(s)                          !
      32 Mass Update          ! _ NTCC Table                           !
      33 Hardcopy Allocations ! _ Calendar                             !
                                ! ----- !
                                ! Password                               !
                                +-----+
Modify values or press PF-Key.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Entr  Help  Menu  Exit  Spool Defau Gener BS200 CICS  IMS/D                               Canc

```

In this window, you can specify the following:

- Whether a logical printer is to be used as default (Y/N),
- The object types for which you want to define models.

You have to enter a password to execute this function.

When you specify that a logical printer is to be used as default printer, the following window appears in which you can define/modify all information about the logical printer:

```

Time 13:36:09          *** NATURAL SPOOL Administration ***          Date 1997-08-27
User  SAG              M e n u                                     SPMMEN01
                                +-----Default Log.Printer 10 / 62-----+
Administration           !                                     !
                            ! Name ..... _____ !
10 Reports / Queues      ! Type ..... _____ !
11 Devices               ! Destination/Form ... _____ / _ !
12 Abstracts             ! Physical Printer .. _____ !
13 Applications          !                                     !
                            ! Duplicates ..... 0__ !
                            ! Disposition ..... _ !
Maintenance             ! Priority ..... 0__ !
                            !                                     !
30 Layout of Spool File ! Protection ..... _ !
31 Objects               !                                     !
32 Mass Update           ! Retention period ... 0__ !
33 Hardcopy Allocations ! for Dispositions D N H N K N L N !
                            !                                     !
                            ! Calendar ..... _____ !
                                +-----+
Enter values for logical printer.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help      Exit  Repor Devic Flip  Abstr Appli Cross Stati Look  Canc
    
```

When a default printer has already been defined, an additional Delete field appears in the window. If you specify Y, all values that have previously been defined are reset to zero or blank.

See Maintaining a Logical Printer for more information on the fields in this window.

When you define a model, for example, for user profiles, the following window appears. You can now define/modify all required information.

```

Time 11:47:22          *** NATURAL SPOOL Administration ***          Date 1997-07-2
User  SAG              M e n u                                     SPMMEN0
+-----Model for Userprofile-----+
!   Modify              Default              Delete (Y/N)          N   !
!   -----            -----            -----            !
!   Select existing Logical Printer(s) from Spool File ..... _ !
!   -----            -----            -----            !
!   No. LPF Name      No. LPF Name      No. LPF Name      No. LPF Name      !
!   1  _____    2  _____    3  _____    4  _____    !
!   5  _____    6  _____    7  _____    8  _____    !
!   9  _____    10 _____    11 _____    12 _____    !
!  13 _____    14 _____    15 _____    16 _____    !
!  17 _____    18 _____    19 _____    20 _____    !
!  21 _____    22 _____    23 _____    24 _____    !
!  25 _____    26 _____    27 _____    28 _____    !
!  29 _____    30 _____    31 _____    HC _____    !
!   -----            -----            -----            !
!   Notes              !
!   -----            !
+-----+
Enter name or mark logical printer.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12-
      Help  Menu  Exit  User  Logic Alloc Print Heade Appli      NTCC  Canc
    
```

When you define models for object types, see the descriptions of the functions listed below for information on the fields in the resulting window.

Object Type	See
User Profile	Function 31.1.
Logical Printer	Function 31.2.
Allocation Table	Function 31.3.
Printer	Function 31.4.
NTCC Table	Function 31.8.
Calendar	Function 31.9.

General Spool Server Options - Option 3

When you select this option, the General Spool Server Options window appears.

```

Time 16:26:09          *** NATURAL SPOOL Administration ***          Date 1997-07-21
User  SAG              M e n u                                     SPMMEN01
                                +- General Spool Server Options 10 / 62 -+
Administration              ! Reprint Options                                     !
                                !                                     !
10 Reports / Queues         ! for reports with status LOST (Y/N) N !
11 Devices                  ! for reports with status RECO (Y/N) N !
12 Abstracts                ! ----- !
13 Applications             ! Delete Options                                       !
                                !                                     !
                                ! Delete by retention period (Y/N) N !
Maintenance                 ! Timeinterval for check (min.) 0___ !
                                ! ----- !
30 Layout of Spool File    ! Protocol Options                                     !
31 Objects                  !                                     !
32 Mass Update              ! Messages to console (Y/N) Y !
33 Hardcopy Allocations    ! Messages to protocol file (Y/N) Y !
                                ! ----- !
                                ! Password                                             !
                                +-----+
Modify values.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Entr  Help  Menu  Exit  Spool Defau Gener BS200 CICS  IMS/D          Canc
    
```

The options in this window apply for all platforms.

You can define the following:

- Whether there will be a reprint for reports with status LOST and/or RECO (Y/N).
- Whether there will be a delete by retention period (Y/N).
- The time interval between two checks in minutes when a delete by retention period is to occur.
- Whether messages will be written to the console and/or a protocol file (Y/N).

You have to enter a password to execute this function.

BS2000/OSD Options

This option is only available if usage of BS2000/OSD has been specified in the Spool File Options window.

When you select this option, the BS2000/OSD Options window appears.

```

Time 16:47:35          *** NATURAL SPOOL Administration ***          Date 1997-08-27
User  SAG              M e n u                                     SPMMEN01
                                     +----- BS2000 Options 7 / 33 -----+
Administration          ! Parameters for the Spool Server          !
! -----!
10 Reports / Queues    !                                     !
11 Devices             ! Restart option (Y/N)          N          !
12 Abstracts           !                                     !
13 Applications        ! Max. no. of restarts          ___          !
! Min. timeinterval (minutes) 10__          !
! -----!
Maintenance           !                                     !
! Time function (Y/N)          N          !
30 Layout of Spool File !                                     !
31 Objects             ! Max. no. of starts            ___          !
32 Mass Update         ! Min. timeinterval (minutes) 10__          !
33 Hardcopy Allocations ! -----!
!                                     !
! Password               !                                     !
+-----+
Modify values.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Entr Help Menu Exit Spool Defau Gener BS200 CICS IMS/D Canc
    
```

The specifications in this window are only validated by spool servers running under BS2000/OSD.

You can define the following for the Restart option:

- Whether printers with status INOP are to be restarted (Y/N).
- The maximum number of printers that are to be restarted at the same time. The value 0 indicates an unlimited number of print jobs. The value 999 means that all printers are set to status FREE and that print jobs are not generated.
- The minimum amount of minutes between two actions.

You can define the following for the Time function:

- Whether reports are to be started (Y/N) according to the time interval specified for the corresponding allocation (see Function 31.3).
- The maximum number of starts that can be generated at the same time. The value 0 indicates an unlimited number of print jobs.
- The minimum amount of minutes between two actions.

You have to enter a password to execute this function.

CICS Options

This option is only available if usage of CICS has been specified in the Spool File Options window.

When you select this option, the CICS Options window appears.

```

Time 16:42:03          *** NATURAL SPOOL Administration ***          Date 1997-08-27
User  SAG              M e n u                                     SPMMEN01
                                     +----- CICS Options 10 / 62 -----+
Administration                ! Parameters for the Spool Server          !
                                !                                                  !
10 Reports / Queues           ! CICS Trans.ID ..... NATP              !
11 Devices                    !                                                  !
12 Abstracts                  ! CICS Sys.ID ..... _____         !
13 Applications                !                                                  !
                                ! Terminate Task (Y/N) ..... Y          !
                                ! -----!
Maintenance                    ! Parameters for the NAF Initialization    !
                                !                                                  !
30 Layout of Spool File       ! Init function(Y/N) ..... Y            !
31 Objects                    !                                                  !
32 Mass Update                 ! Init messages to console (Y/N) Y       !
33 Hardcopy Allocations       ! Init messages to logfile (Y/N) Y      !
                                ! -----!
                                ! Password                                  !
                                +-----+
Modify values.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Entr  Help  Menu  Exit  Spool Defau Gener BS200 CICS  IMS/D                               Canc

```

The specifications in this window are only validated by spool servers running under CICS.

You can define the following options:

- The CICS Transaction ID of the Natural session used for the spool server.
- The CICS System ID of the Natural session used for the spool server (optional).
- Whether a new CICS task is to be invoked for each report (Y) or whether all reports of a queue are to be printed by the same CICS task (N).
- Whether a scan of the spool file is to occur at Natural initialization (Y/N).
- Whether messages of the Init function are to be written to the console and/or log file (Y/N).

You have to enter a password to execute this function.

IMS/DC Options

This option is only available if usage of IMS/DC has been specified in the Spool File Options window.

When you select this option, the IMS/DC Options window appears.

```

Time 16:42:03          *** NATURAL SPOOL Administration ***          Date 1997-08-27
User  SAG              M e n u                                     SPMMEN01
                                     +----- IMS/DC Options 7 / 33 -----+
Administration                !
! Parameters for the Spool Server !
10 Reports / Queues           !
11 Devices                    !
12 Abstracts                  ! BMP ID ..... _____ !
13 Applications               ! BMP JCL Member ..... _____ !
!                               !
Maintenance                   !
!                               !
! Wait for input (Y/N) ..... _ !
30 Layout of Spool File      !
31 Objects                   ! ----- !
32 Mass Update               !
33 Hardcopy Allocations      ! Password !
!                               !
!                               !
!                               !
+-----+
Modify values.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Entr Help Menu Exit Spool Defau Gener BS200 CICS IMS/D Canc
    
```

The specifications in this window are only validated by spool servers running under IMS/DC.

You can define the following options:

- The BMP ID and JCL Member,
- Whether the BMP is to wait for input (Y/N).

You have to enter a password to execute this function.

Modify Password - Function 30.6

When you invoke this function, you can modify your password.

```

Time 16:46:04          *** NATURAL SPOOL Administration ***          Date 1997-07-21
User  SAG              M e n u                                     SPMMEN01

      Administration                      Information

      10 Reports / Queues                 20 Cross-reference
      11 Devices                          21 Statistics
      12 Abstracts                        22 Look at Spool File
      13 Applications                      23 Callnat Handling

      Maintenance                          +---- Spool File 10 / 62 : Password ----+
      30 Layout of Spool File             ! Current Password ..... !
      31 Objects                           !                               !
      32 Mass Update                       ! New Password ..... !
      33 Hardcopy Allocations             +-----+

Enter password.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Entr      Menu  Exit  Forma Reset Incre Recov Set S Modif Acces Displ Canc

```

In the resulting window, enter your current password and the new password. Press ENTER and confirm the new password by entering it once more.

Access Authorization - Function 30.7

When you invoke this function, you are first prompted for a password.

If the password is correct, the Access Authorization window appears in which you enter a user ID, or an asterisk (*) to select the user ID from a list.

When access authorizations have not yet been defined for the specified user, you can now add them for this user.

When access authorizations have already been defined for the specified user, you can now modify them. An additional Delete field is provided, in case you want to delete all access authorizations for this user.

```

Time 11:22:35          *** NATURAL SPOOL Administration ***          Date 1997-07-21
User  SAG              M e n u                                     SPMMEN01
                                +----- Access authorization -----+
Administration            !  Add                                KOL          !
                                !                                     -            !
10 Reports / Queues       !  -----                          !
11 Devices                !                                     Op.  Owner  Priv.  !
12 Abstracts              !                                     --   -----  !
13 Applications           !  Spool File                          N  I      I      I  !
                                !  Userprofile                          I  N      I      I  !
                                !  Logical Printer                       I  N      I      I  !
Maintenance              !  Allocation                            I  N      I      I  !
                                !  Printer                               I  N      I  N  I  !
30 Layout of Spool File   !  Headerpage                           I  N      I      I  !
31 Objects                !  Application                           I  N      I  N  I  !
32 Mass Update            !  Cluster                               I  N      I      I  !
33 Hardcopy Allocations   !  NTCC Table                            I  N      I      I  !
                                !  Calendar                              I  N      I      I  !
                                !  Messageheader                         I  N      I      I  !
                                +-----+
Modify values or press PF-Key.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit                                     Canc
  
```

There are three types of authorization:

- **Operator**

A user can be defined as spool file operator. However, the defined user is only allowed to use Functions 10 (Reports/Queues) and 11 (Devices).

- **Owner**

A user can be defined as an owner of an object. An owner is allowed to modify or delete an object.

- **Private**

Usage of some objects (printers and application) can be restricted to specific users.

You can specify the following in the access authorization window:

Code	Description
Y	Can only be specified for the spool file to define the user as operator. In all other cases, Y indicates that access authorization was granted using S.
N	The user has no access authorization.
*	Access authorization is granted for all objects of this type. This code cannot be specified for the spool file.
S	Access authorization is granted for selected objects of this type. In the resulting window, you specify Y next to each desired object. This code cannot be specified for the spool file.

Display Last Modification - Function 30.8

When you invoke this function, the Last Modification window appears.

```

Time 16:47:57          *** NATURAL SPOOL Administration ***          Date 1997-07-21
User  SAG              M e n u                                     SPMMEN01
+----- Spool File 10 / 62 : Last Modification -----+
!                                                              !
!                                                              !
!   Date .....: 1997-07-21   Time .....:   10:09:20          !
!                                                              !
!   User ID ..: SAG                                             !
!                                                              !
!   Last function executed  Add / modify access authorization  !
!   -----                                                    !
!                                                              !
!   Date .....: 1997-07-21   Time .....:  14:26:09          !
!                                                              !
!   User ID ..: SAG                                             !
!                                                              !
!   Last function executed  Password modified                  !
!                                                              !
+-----+
Press 'ENTER' to continue
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Entr      Menu  Exit  Forma Reset Incre Recov Set S Modif Acces Displ Canc

```

This window provides information about the last two modifications of the spool file.