

NAF - Reports/Queues - Function 10

When you invoke this function, the following screen appears:

```

Time 14:05:21          *** Natural Spool Administration ***          Date 2002-10-22
User  SAG              Reports by Job Number                      File 7/411
Cmd Q  Dest/Form  T  Stat >  Phy.Prt  Stat O P Dup D Pri Job No User ID  Cluster
-----
SE  _  _____  _  _____  *  _____
___  DARMSTD  1  TOBE    --          N 0  K 1          1  MK
___  DARMSTD  1  TOBE    --          N 0  K 1          4  MK
___  DAEPRT12 A  LOAD    --          0  D 1          7  KOL
___  DARMSTD  1  TOBE    --          N 0  K 1          85 MK
___  DARMSTD  1  TOBE    --          N 0  K 1          88 KOL
___  DARMSTD  1  LOAD    --          N 0  K 1          97 HHI
___  DARMSTD  1  TOBE    --          N 0  K 1          286 MK

Mark with function or press PF key
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit          Prtr  Selec  -    +    Det 1          Top  Canc

```

Note:

The display sequence in which the reports are listed is indicated in the screen name. It can be modified with the command SQ.

In the Cmd column on the left, you can enter various commands.

In the SE line, you can specify selection criteria. A list of reports matching the selection criteria will then be shown. For example, if you only want to display the reports of a specific user, enter the user ID in the User ID column of the SE line.

PF5 displays the **Device Status** screen.

PF6 displays the **Report Selection** screen (see the output example).

PF7 displays the previous screen page, PF8 displays the next screen page, and PF11 returns you to the top of the list.

Pressing PF9 repeatedly times displays different screens with more detailed data for each report (see the output examples).

This chapter provides information on the screen columns, the types of report status, the commands and the PF keys provided with the Reports/Queues function.

- Screen Columns

- Report Status
- Commands
- PF Keys

Screen Columns

Explained below are the columns and field values displayed on the screen.

Column	Description	
Q	Indicates the current status of a queue:	
	A or blank	Activated.
	D	Deactivated.
	M	Monitor queue for BS2000/OSD.
Dest/Form	Destination/Form (allocation) of report.	
T	An asterisk (*) indicates the definition of a time window for an allocation (only under BS2000/OSD).	
Stat	Report status.	
>	Indicates the number of pending or active devices.	
	Blank	Currently, only this device has control over the queue.
	>	More than one device has control over the queue.
Phy. Prt	Physical printer to which the report was assigned.	
Stat	Printer status.	
O	Indicates a pending operator command.	
	I	Hold printer immediately.
	F	Flush current spool out.
	S	Stop printer after spool out.
	D	Deactivate printer.
P	Indicates the protection level of a report.	
	N or blank	Not protected.
	P	Report can only be deleted by the user who sent it.
	S	Report can only be started by the user who sent it.
	D	Deactivate printer.
	R	report can only be read/shown by the user who sent it.
	G	Combination of S and R.

Column	Description
Dup	Number of duplicates (modifiable field). See Function 31.2 for possible values.
D	Disposition (scheduling) of report (modifiable field). See Function 31.2 for possible values.
Pri	Priority of report (modifiable field). See Function 31.2 for possible values.
Job No	Job number of report. The job numbers are not necessarily in ascending order. The job number assigned to a report corresponds to the first record number of that report (that is, to the address of the report on the spool file).
User ID	The user who created the report.
Cluster	The name of the cluster to which the logical printer used is assigned (only shown if the cluster option has been activated; see Function 30.5).

Report Status

The following table describes the possible values in the Stat column of the screen.

Status	Description
BATP	Current active spool-out (batch).
DEL	Report is being deleted.
DISA	The queue for this allocation is currently disabled.
FINI	Printed with Disposition K. When a report with Disposition K is printed, it is assigned the status FINI and the Disposition L. If the user then alters the Disposition to K or D (to re-print the report), the status is set back to TOBE.
HOLD	Report will not be printed.
HPER	The header page assigned is inconsistent.
INCO	Report was written to the spool file, but is inconsistent (an internal error occurred). In this case, execute Function 40.1 to narrow down the problem.
INER	Internal error while printing the report.

Status	Description
LOAD	<p>Report is being created.</p> <p>Natural has not yet closed the report. The most probable cause for this is that the Natural program has not yet ended, or has been interrupted. For example:</p> <pre> ... WRITE (1) 'XXXXXX' INPUT 'FIELD' #FIELD ... </pre> <p>The wait on input in the example above causes the status LOAD.</p>
LOCK	Report is currently used by a move or copy operation.
LOST	<p>Printing of the report was suspended because of spool out errors.</p> <p>The spool server has terminated because an ON ERROR condition has been entered in SVP xxx 01 in library SYSPRINT. When this occurs, a single-line WTO message is written to the system operator console. The message displays the DBID and FNR of the current spool file and the error number taken from the Natural system variable *ERROR-NR. The format of the WTO message is as follows:</p> <pre> NAF SP-SERV: ERROR-NR nnnn in line mmmmmm </pre>
MINT	Incorrect or missing NTCC table.
MIPT	Incorrect or missing NTCC printer type in NTCC table.
NOCL	<p>Report was written to the spool file but has not been closed (missing END OF TRANSACTION statement).</p> <p>Natural is not in ET status when closing reports. The most probable cause for this is an UPDATE statement which is not followed by a corresponding END OF TRANSACTION statement. The reports with status NOCL are not printed, and are instead backed out from the spool file if the Natural session is terminated, or if the CLEAR key is pressed. This backout can be prevented by executing an END OF TRANSACTION statement. Recover the report for printing by entering RC in the Cmd column. This will force the status TOBE to be assigned to the report. In addition, the RC command issues an END OF TRANSACTION statement.</p>
ONPR	The report is being printed.
PEND	Started, but not yet spooled out.
RECO	Report was recovered from status INCO by the RC command.
TOBE	The report is stored on the spool file and ready to be printed.
TOLA	The report is reset from status NOCL after receiving an ET.
WAIT	Print of report not started; printer was busy for another allocation.

Status	Description
WOER	Error while preparing the report for spool-out.

Commands

For each report, administration functions can be invoked by entering any of the line commands listed below in the Cmd column.

Command	Description
Start functions	
SD	Start of all reports to a Destination/Form.
SJ	Start of a specific report via the job number.
SU	Start of all reports to a Destination/Form for a specific user ID.
XD	As SD, but to an optional physical printer of the spool file.
XJ	As SJ, but to an optional physical printer of the spool file. See also the example below.
XU	As SU, but to an optional physical printer of the spool file.
Delete functions	
DA	Delete all reports on the spool file.
DD	Delete all reports to a Destination/Form (unless the report is protected).
DJ	Delete the current report only (unless the report is protected). See also the example below.
DU	Delete all reports to a Destination/Form for a specific user ID (unless the report is protected).
DY	Delete reports older than the number of days or the date specified; see also Function 43 (Delete Reports by Date) in the section <i>Control Functions</i> .
Alter functions	
AD	Alter attributes of all reports to a Destination/Form.
AU	Alter attributes of all reports to a Destination/Form for a specific user ID.
Display functions	
DF	Display formatted report using line feed and form feed. See also the example below.
DH	Display report in internal format.
SP	Show all pointers of a report.
Operator functions	

Command	Description
FL	Stop printing on the activated printer and continue with the next report.
FR	Set the printer to status FREE.
HI	Stop the activated printer immediately.
PO	Position the printer to the beginning of the page.
ST	Stop the activated printer after the end of the report.
Report functions	
CO	Copy report to another logical printer.
MJ	Move report to another logical printer.
MD	Move all reports of this Destination/Form to another logical printer.
MU	Move all reports of this Destination/Form created by a specific user ID to another logical printer.
Queue functions	
Q*	Show all queues, the corresponding status and the current number of reports within the queue (this command can be activated in any line).
QS	Change the status of a queue (active, deactivated or monitor queue).
DQ	Show all reports of a queue. The reports are displayed by using the sequence of spool-out (status, priority, creation date and time).
Miscellaneous functions	
RC	Recover report.
SC	Scan a report for a specific string.
SQ	Change the sequence of the Report/Queue display.
TI	Show a time window for start of printing if defined for the corresponding Destination/Form (this function is available for BS2000/OSD only).
UI	If Natural Security is installed, the long text for the sending user ID is displayed for this report.
WP	Display which printers are available.
ZO	Show detailed report attributes.

For further information on the commands above, see the online help.

See also the examples below:

- Example of Command XJ
- Example of Command DF
- Example of Command DJ

Example of Command XJ

If you enter XJ in the Cmd column as shown below, a window appears, asking for the name of the physical printer to which you want to route the report.

```

Time 14:10:09          *** Natural Spool Administration ***          Date 2002-10-22
User  SAG              Reports by Job Number                        File 7/411

Cmd Q  Dest/Form  T  Stat > Phy.Prt  Stat O P Dup D Pri Job No User ID  Cluster
-----
SE  _  _          _  _          _  _          _  _          _  _          _  _          _  _
xj  DARMSTD  1  TOBE  --          N  0  K  1          1  SAG
   DARMSTD  1  TOBE  --          N  0  K  1          4  MK
   DAEPRT12 A  LOAD  --          +-----Start of reports(s)-----+
   DARMSTD  1  TOBE  --          !  To start Allocation DARMSTD/1  ,  !
   DARMSTD  1  TOBE  --          !  enter the name of a physical printer!
   DARMSTD  1  LOAD  --          !  or '*' to invoke a selection.      !
   DARMSTD  1  TOBE  --          !                                     !
          !  To return, enter '.'          !
          !                                     !
          !  Physical printer _____ !
          +-----+

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

Example of Command DF

If you enter DF in the Cmd column, the corresponding report data are shown.

```

Time 11:55:13          *** Natural Spool Administration ***          Date 2002-10-22
User  SAG              Display Reports                          File 7/411
Cmd:  _ Page:      1  Dest.: STD      Form: R User:  SAG      Job Number      1
001  11          21          31          41          51          61          71
  I-----I-----I-----I-----I-----I-----I-----I-----I-----
=>          **** top of report ****
F ? Page 1          CROSS-REFERENCE/ SPOOL FILE          1997-08-21  14:1
L ?
L ?          SPOOLFILE
< ?          SPOOLFILE
< ?          SPOOLFILE
L ?
L ? DATABASE / FILENUMBER 7 / 33          VERSION ..... 230
< ?          7          33          230
< ?          7          33          230
L ?
L ?          LAYOUT OF REPORT AREA
< ?          LAYOUT OF REPORT AREA
< ?          LAYOUT OF REPORT AREA
L ?
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
+      Help  Menu  Exit          Hex  <<  >  +  Bot  -  Top  Canc
    
```

Field	Description
Cmd	Command input.
001	Column in which the display of the report is to start. (If you enter a number greater than 250, Column 1 is used).
Page	The number of the last report page on the screen.
Dest.	Destination of the report.
Form	Form of the report.
User	User who created the report.
Job Number	Job number of the report.

The printer control characters in Column 1 of the report are:

- F for form feed,
- L for line feed,
- < for carriage return (intensified lines).

If you press PF5 on the above screen, the report is shown in internal (hexadecimal) format:

```

Time 11:56:26          *** Natural Spool Administration ***          Date 2002-10-22
User SAG                  Display Reports                          File 7/411

Cmd:  __ Page:   1 Dest.: STD      Form: R User:  SAG      Job Number   1
001   11       21       31       41       51       61       71
 I-----I-----I-----I-----I-----I-----I-----I-----
F ? Page 1              CROSS-REFERENCE/ SPOOL FILE              1997-08-21 14:1
0 04D8884F444444444444CDDEE6DCCDCDCC64EDDD4CCDC4444444444444444FFFF6FF6FF44FF7F
C C071750100000000003962209565955351027663069350000000000000019970080210014A1
L ?
1 144444444444444444444444444444444444444444444444444444444444444444444444444444444
5 500000000000000000000000000000000000000000000000000000000000000000000000000000000
L ?
1 144444444444444444444444444444444444444444444444444444444444444444444444444444444
5 500000000000000000000000276636935000000000000000000000000000000000000000000000000
< ?
0 044444444444444444444444444444444444444444444444444444444444444444444444444444444
D D00000000000000000000000276636935000000000000000000000000000000000000000000000000
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
+   Help  Menu  Exit           Hex  <<   >>   +   Bot  -   Top  Canc
    
```

Example of Command DJ

If you enter DJ in the Cmd column as shown below, a window appears, asking to confirm the deletion.


```

Time 14:26:01          *** Natural Spool Administration ***          Date 2002-10-22
User SAG              Reports by Job Number                        File 7/411

Cmd Q Dest/Form  T  Stat > Phy.Prt  Stat O P Dup D Pri Job No User ID Cluster
-----
SE _
dj  DARMSTD  1  TOBE    --      N 0  K 1      1 SAG
_   DARMSTD  1  TOBE    --      N 0  K 1      4 MK
_   DAEPR12  A  LOAD    --      0  D 1      7 KOL
_   DARMSTD  1  TOBE    --      N 0  K 1     85 MK
_   DARMSTD  1  TOBE    --      N 0  K 1     88 KOL
_   DARMSTD  1  LOAD    --      N 0  K 1     97 HHI
_   DARMSTD  1  TOBE    --      N 0  K 1    286 MK

                                      +----- Confirmation -----+
                                      ! To delete report with number 1      !
                                      ! confirm with report number ...    !
                                      !                                     !
                                      ! and mark to destroy report data ... !
                                      !                                     !
                                      +-----+

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

Note:

For the commands DA, DD and DU, you are also asked to confirm the deletion.

The option "destroy report data" is available which not only marks the report as "deleted" on the spool file, but also sets the report data to blanks. This might be required for confidential reports.

PF Keys

- Example of Output from PF6
- Example of Output from PF9

Example of Output from PF6

```

Time 13:33:47          *** Natural Spool Administration ***      Date 2002-10-22
User SAG              Report Selection                          File 7/411

Report selection

For all user IDs      X          Starting from job number _____
For own user ID      _          For user ID _____
For group ID         _____

-----

Optional selection parameters

Destination          _____ /Form _  Duplicates  *__  Disposition  _
Priority              _____
Active printer       _____          Queue status  _
Cluster              _____

Enter values for selection.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help  Menu  Exit      Prtr                                Canc

```

On this screen, you can select reports.

If Natural Security is installed, the modifiable fields in this screen depend on the defined user type.

Note:

The Cluster(s) field only appears, if the cluster option has been activated (see Function 30.5).

Example of Output from PF9

Pressing PF9 once displays the first **Detailed Attributes** screen.

```

Time 13:34:30          *** Natural Spool Administration ***          Date 2002-10-22
User SAG                Detailed Attributes 1                        File 7/411

Cmd Q Dest/Form  No. Pages  No. Lines  %Prt. Date Printed      TF  Printer
-----
SE
___ DR1171  A    1          1          2002-10-15 16:24:37 CPU SPPPRINT
___ DARMSTD 1    1          3
___ DARMSTD 1    1          19
___ DAEPT12 A
___ DARMSTD 1    1          19
___ DARMSTD 1    4          200
___ DARMSTD 1
___ DARMSTD 1    1          17

Mark with function or press PF key
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit      Prtr  Selec  -    +    Det 2      Top  Canc
    
```

Column	Description	
No. Pages	The number of logical pages in the report.	
No. Lines	The number of lines in the report.	
%Prt.	For active spooling, the percentage of completion is shown.	
Date printed	Date and time of the last spool-out.	
TF	Time format:	
	CPU	Store clock value of CPU.
	NAT	Natural time. The time computed by using the DD, TD and/or YD values as defined in the Natural parameter module.
Printer	The physical printer which was used for the last spool-out, or the name of the batch program used for the spool-out.	

Pressing PF9 once more displays the second **Detailed Attributes** screen.

```

Time 14:43:26          *** Natural Spool Administration ***          Date 2002-10-22
User SAG              Detailed Attributes 2                          File 7/411
Cmd Q Dest/Form      Log.Prtr Profile          Name          Forms        Library  Program
-----
SE
___ DARMSTD 1 PROF1 MK (NAF) -- -- SYSPPOOL --
___ DARMSTD 1 PROF1 MK (NAF) -- -- SYSPPOOL NTEST
___ DAEPRT12 A DAEPRT12 * (NAF) -- -- SYSPPOOL SPFPAG01
___ DARMSTD 1 PROF1 MK (NAF) -- -- SYSPPOOL NTEST
___ DARMSTD 1 PROF1 MK (NAF) -- -- SYSPPOOL SPPTREP1
___ DARMSTD 1 PROF1 MK (NAF) -- -- SYSPPOOL SPFPAG01
___ DARMSTD 1 PROF1 MK (NAF) -- -- SYSPPOOL SPSCH03

Mark with function or press PF key
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit          Prtr Selec - + Det 3 Det 1 Top Canc
    
```

Column	Description
Log.Prtr	The logical printer used for the creation of the report.
Profile	NTCC table from the parameter used in the PROFILE clause of the DEFINE PRINTER statement. When followed by MAC, the replacements are defined within the NTCCTAB table of the Natural system parameters. When followed by NAF, the replacements are defined in the object NTCC table of the NATSPOOL environment, depending on the printer.
Name	Value of the name parameter used in the NAME clause of the DEFINE PRINTER statement.
Forms	Value of the forms parameter used in the FORMS clause of the DEFINE PRINTER statement.
Library	The library in which the report was created.
Program	The name of the program which created the report.

Pressing PF9 once more displays the third **Detailed Attributes** screen.

```

Time 14:45:25          *** Natural Spool Administration ***          Date 2002-10-22
User SAG              Detailed Attributes 3                          File 7/411

Cmd Q Dest/Form      Init ID  Init User Device      LOST :   Program   Errnr   Line
-----
SE
___ DARMSTD 1 0756 MK VIDEO
___ DARMSTD 1 0756 MK VIDEO
___ DAEPR12 A 0804 KOL VIDEO
___ DARMSTD 1 0794 MK VIDEO
___ DARMSTD 1 0787 KOL VIDEO
___ DARMSTD 1 0751 HHI VIDEO
___ DARMSTD 1 0776 MK VIDEO

Mark with function or press PF key
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit          Prtr  Selec -      +
    
```

Column	Description
Init ID	Value of the system variable *INIT-ID when creating the report.
Inituser	Value of the system variable *INIT-USER when creating the report.
Device	Value of the system variable *DEVICE when creating the report.
LOST	For reports with status LOST, the program name, error number and line are shown.

Pressing PF9 once more displays the fourth **Detailed Attributes** screen.

```

Time 13:40:56          *** Natural Spool Administration ***          Date 2002-10-22
User SAG              Detailed Attributes 4                          File 7/411

Cmd Q Dest/Form      Creation Date/Time  TF  Ret.P. Calendar Del. Date  ASA CCnt.
-----
SE
___ DARMSTD 1 1997-07-18 07:51:56 CPU 1 -- -- On No
___ DARMSTD 1 1997-07-18 08:19:26 CPU 1 -- -- On No
___ DAEPRT12 A 1997-07-18 09:37:20 CPU 1 -- -- On No
___ DARMSTD 1 1997-07-18 10:15:13 CPU 1 -- -- On No
___ DARMSTD 1 1997-07-18 11:18:24 CPU 1 -- -- On No
___ DARMSTD 1 1997-07-18 12:48:38 CPU 1 -- -- On No
___ DARMSTD 1 1997-07-21 09:17:50 CPU 1 -- -- On No

Mark with function or press PF key
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit      Prtr  Selec  -      +      Det 5 Det 3 Top  Canc
    
```

Column	Description
Creation Date/Time	Date and time given from the CPU when the report was created.
Ret.P.	Retention period specified for the used logical printer. See Function 31.2.
Calendar	Name of the calendar assigned to the logical printer. See Function 31.2.
Del. Date	Date when the report can automatically be deleted if this feature has been activated (see Function 30.5). The deletion date is computed by using the retention period and the specifications in a calendar.
ASA	Value ON indicates that the report lines start with the default control characters for line feed, form feed and carriage return. Value OFF indicates that the default control characters are suppressed.
CCnt.	Value Yes indicates that the report was created by using DEFINE PRINTER (<i>rep</i>) OUTPUT 'CCONTROL'.

Pressing PF9 once more displays the fifth **Detailed Attributes** screen.

```

Time 13:34:30          *** Natural Spool Administration ***          Date 2002-10-22
User SAG                Detailed Attributes 5                        File 7/411

Cmd Q Dest/Form  Additional error information
-----
SE  _____  -
___ DR1171      A
___ DARMSTD     1
___ DARMSTD     1
___ DAEPR12    A
___ DARMSTD     1
___ DARMSTD     1
___ DARMSTD     1
___ DARMSTD     1
___ DARMSTD     1

Mark with function or press PF key
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit          Prtr  Selec  -    +    Det 1 Det 4 Top  Canc

```

If the spool server detects any error, the report status is changed and an error message is sent to the console or written to the log file.

Part of this information is stored for the report and shown on this screen.