

NAF - Conversion from Version 2.3

When you have installed Natural Advanced Facilities Version 4.1, you can convert a Version 2.3 spool file to Version 4.1. This section describes how to do this:

- Online Conversion
- Conversion in Batch Mode

Note:

It is not possible to convert a Version 2.2 spool file.

To convert the spool file to the new format, invoke the CONVERT program in the SYSPPOOL library. You can either convert online or in batch mode.

When you install Natural Advanced Facilities Version 4.1 for the first time, SMA generates an example CONVERT batch job.

Online Conversion

When you start the CONVERT program, you can choose whether conversion is to occur in test mode or real mode:

```

Time 13:18:09          *** Natural Spool Administration ***          Date 2002-10-17
User SAG              Spool File Conversion                      File 7/411

Select the mode of the online conversion:

      _      Test mode

              All steps of conversion are executed but no update,
              store or delete is done.

      _      Real mode

              All steps are executed and the new spool file is
              generated/updated.

Mark a function.
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
```

- **Test Mode**
All conversion steps are performed without modifying the spool file.
- **Real Mode**
All conversion steps are performed and the spool file is modified.

When you press ENTER, the conversion program checks the database ID and file number of the new Natural Advanced Facilities Version 4.1 spool file. The following window appears:

```

+----- NOTE -----+
I The current Natural session uses the spool file 7/411      I
I                                                            I
I While executing the conversion routine, this file is used as I
I spool file for version 4.1                                I
I                                                            I
I Continue conversion (Y/N) _                                I
+-----+
    
```

Next, you are asked for information on the spool file to be converted:

```

Time 13:28:06          *** Natural Spool Administration ***      Date 2002-10-17
User SAG                Spool File Conversion                    File 7/411

Assigned spool file for Natural Advanced Facilities Version 4.1 :

DBID 7      FNR 411
-----

Specify the spool file of version 2.3 which is to be converted

DBID 7____ FNR 33____ Adabas Password          Cipher Code _____

and select one option

x  convert objects (User profile, Logical printer, etc.)
_  convert reports
_  convert objects and reports

_  terminate function immediately

Enter values.
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
                Exit          Objec Repor All                          CMND
    
```

Note:

In a VSAM environment, specify the DD-Name instead of the Adabas password.

If the new spool file for NAF Version 4.1 is not empty, you can select one of the following options:

- reset the new spool file,
- update the new spool file, or
- terminate conversion.

When your specifications are correct and when the spool file to be converted is of the defined format, enter the password of the spool file that is to be converted:

```

+-----Note-----+
! Spool file to be converted 7/33                          !
!                                                            !
! Enter password or '.' to terminate function                !
+-----+
    
```

The conversion program then checks the number of objects and displays it:

```

+-----Note-----+
! Functions selected for spool file conversion:      !
!                                                    !
! Convert Objects                                  !
! from spool file 7/33          to spool file 7/411  !
!                                                    !
! Reset spool file for version 4.1                 !
!                                                    !
! Number of records for objects to be converted 81  !
!                                                    !
!                                                    !
! Continue conversion (Y/N) _                      !
+-----+
    
```

You are asked whether you want to continue online conversion. When more objects have been found than is convenient to convert online, specify N and then invoke the CONVERT program in batch mode, see Conversion in Batch Mode. Otherwise specify Y to continue online conversion.

When you continue online conversion, all objects are immediately converted. During conversion, you are notified which object type is currently being processed.

When all objects have been converted, you can choose whether to format the new spool file or to end the conversion. When you choose to format the spool file, the values defined for the old spool file are used.

Conversion in Batch Mode

When you invoke the CONVERT program in batch mode, you must specify the following:

- Whether conversion is to occur in test mode or real mode.
- The database ID of the spool file that is to be converted.
- The file number of the spool file that is to be converted.
- The Adabas password or VSAM DD-Name and the cipher code of the spool file that is to be converted.
- The conversion function:
 - O = only objects
 - R = only reports
 - A = objects and reports
- Whether the new spool file is to be formatted (Y/N).
- Whether a new spool file which is not empty is to be deleted (specify FORCE to delete the new spool file, otherwise the new spool file is modified).

A protocol file is automatically created. It contains your specifications for conversion and the resulting actions.

In the examples below, the following notation is used:

Notation	Description
<i>nnnnn</i>	Database number of Version 2.3 spool file.
<i>fffff</i>	File number of Version 2.3 spool file.
<i>xxxxxxxx</i>	Adabas password or VSAM DD-Name.
<i>yyyyyyyy</i>	Adabas cipher code.
<i>zzzzzzzz</i>	Password of Version 2.3 spool file.

Below are examples to demonstrate the use of the CONVERT program for batch conversion with reset and formatting instructions:

- Example - Objects under BS2000/OSD in Test Mode
- Example - Objects and Reports under OS/390 in Real Mode
- Example - Reports under VSE/ESA in Test Mode

Example - Objects under BS2000/OSD in Test Mode

The following example program is designed for the batch conversion of objects under BS2000/OSD in Test mode with reset and formatting instructions:

```

./BATCONV LOGON
/SYSFILE SYSDTA=(SYSCMD)
/EXEC NATBAT41
STACK=(LOGON SYSPool),IM=D,INTENS=1,MADIO=0,MAXCL=0,MT=0
/EOF
CONVERT
TEST
nnnnn,fffff,xxxxxxxxx,yyyyyyyyy,zzzzzzzz,O,Y,FORCE
FIN
/STEP
/LOGOFF NOSPOOL

```

Example - Objects and Reports under OS/390 in Real Mode

The following example program is designed for the batch conversion of objects and reports under OS/390 in Real mode with reset and formatting instructions:

```

//BATCONV JOB CLASS=G,MSGCLASS=X
//CONVERT EXEC PGM=NATBATCH,PARM='IM=D'
//STEPBLIB DD DSN=Natural.V41.LOAD,DISP=SHR
// DD DSN=Adabas.V613.LOAD,DISP=SHR
//DDCARD DD Natural.V41.SOURCE(ADAPARM),DISP=SHR
//CMPRINT DD SYSOUT=X
//CMSYNIN DD *
LOGON SYSPool
CONVERT
REAL
nnnnn,fffff,xxxxxxxxx,yyyyyyyyy,zzzzzzzz,A,Y,FORCE
FIN

```

Example - Reports under VSE/ESA in Test Mode

The following example program is designed for the batch conversion of reports under VSE/ESA in Test mode with reset and formatting instructions:

```

//JOB BATCONV
//OPTION LOG
//ASSGN SYSLST,00E
//EXEC PROC=ADAV61LB
//EXEC PROC=ALL411LB
//EXEC NATBATCH,SIZE=NATBATCH,PARM='SYSRDR'
IM=D
/*
ADARUN DA=xxx,SVC=xxx;TNAE=999999,TT=99999
/*
LOGON SYSPool
CONVERT
TEST

```

```
nnnnn,ffff,xxxxxxxx,yyyyyyy,zzzzzzz,R,Y,FORCE  
FIN  
/*  
/&
```