

Conversion Installation

The following outlines the conversion installation from a previously installed PAC installation. When converting from a previous version of PAC to version 2.3.1, perform the following steps after copying the tape contents to disk.

- Upgrading PAC
 - Converting the ACF and the PCF Data
 - Upgrading PAA
 - Converting the FPAA Data
-

Upgrading PAC

Step 1: Deleting old PAC/PAA System Programs

SMA Reference: Job I051, Step 1700 / 1701 / 1702 / 1703 / 1704 / 1705

- Backup and delete the following:
 - System libraries SYSPAC, SYSPACA, SYSPACUS, SYSPAA, SYSPAAA, and SYSPAAUS on the FNAT.
 - Modules SYSPAC, SYSPACA, SYSPAA, SYSPAAA from library SYSTEM on the FNAT and FUSER.
 - Module COMPARE and those modules whose names begin in MIG, MG, PAC and PAA from library SYSTEM on the FNAT and FUSER.

This step is required because numerous PAC/PAA modules from previous versions have been discontinued.

Step 2: Modify, Reassemble and Link the NATPARM Module/s

SMA Reference: Batch Job I060, Steps 0010,0015

Com-plete Job I080, Steps 2300,2310

CICS Job I080, Steps 2210,2220

TSO Job I080, Steps 0010,0015

IMS/DC Job I080, Steps 2500,2510

TIAM Job I080, Steps 0100,0120

UTM Job I080, steps 0200,0210

Note:

The size parameters are recommendations only. You may have to adapt these values to your particular environment.

1. The following Natural parameter settings are recommended during the installation of PAC/PAA 2.3.1:

CDYNAM=8 (or higher)
ESIZE=128
LC=ON (for use with the new COMPARE utility)
MADIO=0

MAXCL=0
MT=0
RJESIZE=8

Note:

The ESIZE required by PAC depends on the characteristics of your migration. It is used to store individual entries in the object list when you process PAC migration events or use the Expand function. The actual size needed may be larger or smaller than 128K. If error message NAT0886 occurs, the ESIZE has been set too low and has to be set higher.

2. For online and batch processing, set: PRINTER 1 in either the NTPRINT macro or dynamically using the printer parameter.

3. Set:

WORK 1,2,3 in either the NETWORK macro or dynamically using the work parameter.

OPEN=OBJ in the NETWORK macro.

4. Specify the following NTFILE parameters for the PAC ACF and PCF files and PAA file. For each file replace m with the appropriate database number and n with the appropriate file number.

NTFILE ID=210,DBID=m, FNR=n (ACF)

NTFILE ID=211,DBID=m, FNR=n (PCF)

NTFILE ID=178,DBID=m, FNR=n (PAA)

5. Setting up NATRJE for the various TP-Monitors:

For information about setting up and installing this functionality of Natural, please refer to the Natural Installation and Operations documentation. (Natural under CICS and Natural under IMS / TM).

6. Assemble and link the NATPARM(s) modules.

Step 3: Link the Batch Natural Nucleus

SMA Reference: Job I060, Step 0020

1. Find the JCL used to link your current batch Natural nucleus.

This will ensure that all INCLUDE statements specified when you built your current batch Natural nucleus are included in this step.

2. In the INCLUDE statement for the NATPARM, specify the name of the batch NATPARM module that you reassembled in Step 1: Modify, Reassemble and Link the NATPARM Module(s).
3. Link the Natural nucleus.

Step 4: Load PAC/PAA System Programs

SMA Reference: Job I061, Step 1700

1. Before loading the INPL dataset, make a note of the PAC administrator user ID of the existing PAC system, or ask the PAC administrator to define a temporary administrator user for installation purposes. You will need this user-ID later.
2. The PAC/PAA system programs are contained in the dataset PAC23n.INPL. Load these to your Natural FNAT and FUSER system files using the Natural utility INPL.

Step 5: Load PAC/PAA Error Message Text

SMA Reference: Job I061, Step 1701

- The PAC/PAA error texts are contained in the dataset PAC23n.ERRN. Load these to your Natural system file (FNAT) with the Natural utility ERRLODUS.

Step 6: Copy LOGON000 and PACSTEP - Non Natural Security

SMA Reference: Job I082 Step 1710

Note:

LOGON000 is delivered in source format. The contents of this module shows as an example of how the various PAC required settings are to be used. It is recommended that you make the correct adaptations to fit into your own environment.

- Copy modules LOGON000 and PACSTEP from SYSPACUS to SYSTEM on FNAT using the SYSMAIN Utility.

Step 7: Load the PAC Jobs

SMA Reference: Job I200, Step 1707

To load the relevant JCL texts from data set PAC23n.DATA to the ACF do the following:

1. Assign data set PAC23n.DATA to file CMWKF01
2. Execute module PACJOBLO from library SYSPAC; specify the value of its one parameter: a range of JCL text names indicating which of the texts in PAC23n.DATA should be loaded to the ACF.

Example:

```
PACJOBLO OS*
```

This will load all jobs for operating system OS/390.

Converting the ACF and the PCF Data

Step 1: Converting the ACF Data

SMA Reference: Job I200, Step 1720

This step converts your PAC ACF data from version 2.2.1. or 2.2.2 to 2.3.1 format.

1. Make sure that the logical file 210 points at your ACF and logical file 211 to your PCF. If not, restart Natural, specifying 'LFILE=(210,DBID,FNR)', 'LFILE=(211,DBID,FNR)'.
2. Execute module CONVERT from library SYSPACA, ensure that MENU is not defined as startup transaction for library SYSPACA.

Please now continue with Customizing PAC and PAA.

Step 2: Converting the PCF Data

SMA Reference: Job I200, Step 1701

If upgrading Predict 4.1 to Predict 4.2, the PAC PCF system file must conform to Predict 4.2 respectively. This step is carried out by Predict. As PAC PCF data needs to conform to Predict FDIC data, it is necessary to convert the data that exists on your PCF file.

In order to do this you should start a Natural session with your FDIC parameter pointing to your current PCF value.

- Logon to library SYSDICBE and execute the convert routine. An example is shown below.

Batch Example:

```
//CMSYNIN      DD      *
SYSDICCO, DBA, DBA1
MENU
CONVERT VERSION42
FIN
```

Upgrading PAA

Prerequisites

The two steps described in this section need be taken only if the PAA being upgraded is to run in an environment without an already upgraded PAC.

Step 1: Load PAA System Programs

SMA Reference: I061 Step 1700

- The PAA system programs are contained in the dataset PAC23n.INPL. Load these to your Natural FNAT and FUSER system files using the Natural utility INPL

Step 2: Load PAA Error Message Text

SMA Reference: I061 Step 1701

- The PAA error texts are contained in the dataset PAC23n.ERRN. Load these to your Natural system file (FNAT) with the Natural utility ERRLODUS.

Converting the FPAA Data

Step 1: Modify FDT

1. SMA Reference: Job I082, Step 1740 / 1741

Add the new fields to your PAA 2.2.n FPAA system file. This job extends the physical layout of an existing FPAA system file (FDT) to the layout of a PAA 2.3.1 FPAA system file.

```
ADADBS RELEASE FILE=<PAA NUMBER>,DESCRIPTOR='S3'
ADADBS RELEASE FILE=<PAA NUMBER>,DESCRIPTOR='SD'
ADAINV INVERT FILE =<PAA NUMBER>
ADAINV SUPDE='S3=AB(1,1),CC(1,32),RJ(1,5)'
ADAINV INVERT FILE =<PAA NUMBER>
ADAINV SUPDE='SD=AB(1,1),EA(1,11),EF(12,22),EF(1,11),RK(1,10)'
```

Step 2: Execute the CONVERT module

SMA Reference: I200 Step 1715

This step converts your PAA data from version 2.2.*n* to 2.3.1 format.

1. Make sure that logical file 178 points at your FPAA. If not, restart Natural, specifying 'LFILE=(178,DBID,FNR)'.
2. Execute module CONVERT from library SYSPAAA, specifying no parameters.

This module does access your production FUSER / FUSERS in order to verify and or update PAA control records.

Please now continue with Customizing PAC and PAA.