IBM

VisualAge Pacbase 2.5

VA PAC 2.0/2.5 – OS/2 & WINDOWS/NT
OPERATIONS MANUAL VOLUME IV : NON STANDARD RETRIEVALS

DEZN2000201A

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1. FOREWORD

<u>FOREWORD</u>

<u>PURPOSE OF THIS MANUAL</u>

This manual is intended for the VisualAge Pacbase Administrator. It describes
the steps and instructions for retrieving databases created in Pacbase releases
older than Release 160.

As a general rule, it is advised to install the new release/version in an
environment quite separate from the older release environment, i.e, with
different installation parameters.

2. COMPONENTS OF THE RETRIEVAL PACKAGE

2.1. THE BATCH PROGRAM LIBRARY

THE BATCH-PROGRAM LIBRARY

```
-----------------------------------------------------------
! PROGR. ! PROCEDURES ! MODULE ! COMMENTS                  !
! CODE   !            ! OPTION !                           !
!----------------------------------------------------------!
! PACR02 ! PP73       ! PEI    ! PEI 7.3 retrieval         !
! PTURPC ! PC73       ! DIC    ! 7.3 database retrieval     !
! PTU890 ! TRUV       ! PDM    ! Retrieval of manuals (U)  !
!        !            !        !  as volumes (V)           !
! PTU902 ! PE73 PE80  ! DIC    ! 7.3, 8.0 utility retrieval!
! PTU916 ! PJ73       ! DIC    ! 7.3 Journal retrieval      !
! PTU917 ! PJ73 PJ80  ! DIC    ! 7.3, 8.0 Journal retrieval!
! REJYSM ! PJYS       ! YSM    ! Journal retrieval for YSM !
! REPAFL ! RTYS       ! YSM    ! YSM retrieval for AFL     !
! REPGDP ! PC80       ! DIC    ! 8.0 Database retrieval     !
! REPYSM ! PCYS       ! YSM    ! Database retrieval for YSM!
-----------------------------------------------------------
```

All the programs used in the procedures and not shipped in this package are
included in the VisualAge Pacbase installation package.

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2.2. THE BATCH PROCEDURES

<u>THE BATCH PROCEDURES</u>

Procedures associated with batch processing are described in Parts II and III of the Operations Manual (Batch Procedures: Administrator's Guide --for those procedures involving only the Database Administrator-- and User's Guide --for those available to the user).

The documentation of each procedure includes the following:

  . General presentation

  - Introduction
  - Execution conditions
  - Corrections in case of an ABEND.

  . Description of user input, processing and results, as well as recommendations
   for use.

  . Description of steps
  - List of permanent and temporary files in use,
  - Return codes (if any) produced by each step.

  . Command file (JCL lines).

PROCEDURE CLASSIFICATION

Batch procedures are documented in the following manuals:

Batch procedures - Administrator's Guide:

1) Database management utilities.

2) Versioning utilities (PEI and Pactransfer).

3) Manager's utilities.

4) Migrations.

Batch procedures - User's guide:

1) Standard procedures.

2) Personalized extraction and automated documentation.

3) Quality analysis and control.

4) Methodology integrity check.

5) Pactables.

6) Impact Analysis.

7) VisualAge Smalltalk / VisualAge Pacbase Bridge.

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INSTALLATION   3

3. INSTALLATION

3.1. PRESENTATION OF THE INSTALLATION

& GENERAL PRESENTATION

This package is supplied on a diskette which enables you to install all the programs and procedures required on a VA Pac server.

INSTALLATION DISKETTE

The diskette contains the FRA directory for an installation in French and the ENG directory for an installation in English. Each directory contains the following elements:

. The INSTALL.CMD installation procedure,

. A brief installation documentation in LISEZMOI.TXT or README.TXT,

. The REINST.CMD re-installation procedure,

. All the programs of the package, compressed in the PGM.ZIP file,

. All the procedures of the package in the PROC directory.

The PKUNZIP directory, present on the installation diskette, is used to decompress programs and files at the time of installation.

INSTALLATION STEPS

The installation comprizes two steps:

. Preparation

. Installation itself.

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PREPARATION

All the elements are installed under the VA Pac installation directories. So VA Pac must have been installed before.

You must know the parameters used for the VA Pac installation: "release" parameters, the volumes' drives in use.

If one of the disks used for VA Pac can be accessed via the LAN, you must be connected to the LAN to perform the installation.

ISNTALLATION

Refer to sub-chapter "INSTALLATION ON A VA Pac SERVER".

3.2. INSTALLATION ON A VA Pac SERVER

INSTALLATION ON A VA Pac SERVER

The INSTALL.CMD installation procedure can be run from the diskette or from VA Pac server's hard disk drive.

If INSTALL is run from the server's hard disk, the user must first copy INSTALL.CMD and PKUNZIP.EXE from the installation diskette on the server's hard disk.

EXECUTION OF INSTALL

The INSTALL procedure is run with the following VA Pac installation parameters:

1 : diskette drive used for the installation,

2 : volume for batch programs and procedures,

3 : release = root of VA Pac installation (with backslash),

Example:

INTALL A C \PACLAN

The INSTALL procedure does not create any directory; but it controls that VA Pac has been installed and that it is the first installation.

VA Pac installation directories are used to:

  . install batch programs and procedures ("release"\ BATCH\PGM and
    "release"\BATCH\PROC directories),

  . copy the UPOK.VER file, containing the accurate reference of the release
    installed, in the "release" directory.

3.3. STANDARD RE-INSTALLATION

STANDARD RE-INSTALLATION

A re-installation must be performed when a new release is available with corrections of bugs or new specific developments to the current release.

The relase, identified by a number (ex: 2.0 V01) contains the following elements:

  . the diskette of the module,

  . the list of corrections,

  . re-installation instructions (LISEZMOI.TXT or README.TXT file).

Generally, only the system files (batch programs) are affected by the new release.

The REINST.CMD procedure, included on the diskette, allows a standard re-installation. It uses the following parameters:

1 : Diskette drive
2 : Volume for the batch programs
3 : VisualAge Pacbase Release (with \)

The REINST procedure re-installs the sets of batch programs and updates the UPOK.VER file, which contains the accurate reference of the release installed.

Notes: modified procedures

The re-installation procedure does not copy the procedures ("release"\BATCH\PROC directory) to avoid loading any possible adaptations to the site carried out by the Database administrator. The INSTALL.DOC file describes the possible modifications performed in the batch procedures.

4. RETRIEVAL OF PACBASE 8.0.2

4.1. 8.0.2 RETRIEVALS - OPERATIONS TO BE PERFORMED

8.0.2 RETRIEVALS: OPERATIONS TO BE PERFORMED

The retrieval of existing applications allowing for the transformation of a
PACBASE 8.0.2 database into a database compatible with the new release is
broken down into the following phases:

   . Retrieval of user parameters

   . Retrieval of generation-print requests

   . Retrieval of the archived journal

For users of the PEI function:

   . Retrieval of Production Environment Interface (PEI)

For users of the WorkStation:

   . Retrieval of YSM methodology

   . The WorkStation's dedicated User Entities must be uploaded into the
    Database via the UPDT procedure, after the Database has been retrieved and
    restored in the new release.

1-Retrieval of User parameters

. Retrieval of the 8.0.2 user parameters backup (PE82 procedure).

. Re-initialization of the AE file from the AE0 file supplied for installation.

. Execution of the PARM procedure of the new release using as input the PE backup file produced by the parameter retrieval, the '********' user code and NRREST as input parameter.

. Use of the WorkStation: new execution of the PARM procedure of the new release. The input should include the transactions associated to the parameters settings for the methodology used (NRCHAR command).

Refer to the paragraph describing the installation of the methodology choices, in Chapter 'INSTALLATION' of the Environment & Installation manual for this VisualAge Pacbase release. Refer in particular to the loading of error messages - on-line help and to the user parameters.

RESULT: The AE and AP files, containing the 8.0.2 user parameters, are retrieved in the format of the new release.

2-Retrieval of 8.0.2 generation-print requests

. Backup in 8.0.2 release format of the 8.0.2 AG file (8.0.2 SVAG procedure).

. Retrieval of the resulting 8.0.2 PG file (PG82 procedure). The output is a PG backup in the format of the new release.

. Reorganization-restoration of the generation-print requests (REAG of the new release) using as input the 8.0.2 PG backup obtained in the previous step.

RESULT: The AG file is operational under the new VisualAge Pacbase release.

3-Retrieval of the 8.0.2 Archived Journal

. Archiving in 8.0.2 release format of the 8.0.2 journal (8.0.2 ARCH
procedure).

. Retrieval of the resulting 8.0.2 PJ archived journal in the new format (PJ82
procedure). The output is a PJ archived journal in the format of the new
release.

RESULT: The PJ file is operational under the new VisualAge Pacbase release.

4-Retrieval of the 8.0.2 Production Environment

. Backup in 8.0.2 release format of the production environment (8.0.2 SVPE
procedure). The output is an 8.0.2 PP file.

. Retrieval of the resulting 8.0.2 PP file in the new format (PP82 procedure).
The output is a PP backup in the format of the new VisualAge Pacbase
release.

. Restoration of the production environment (RSPE procedure of the new
release) using as input the backup produced by the previous step.

RESULT: The AB and AC files are operational under the new VisualAge
Pacbase release.

5-Retrieval of the YSM Methodology

Refer to Chapter 'RETRIEVAL OF THE YSM METHODOLOGY' for complete
information about this procedure.

4.2. PE82 - RETRIEVAL OF USER PARAMETERS

```
ECHO OFF
CLS
ECHO .
ECHO .
ECHO *********************************************************
ECHO *                    PE82 PROCEDURE
ECHO *                    ==============
ECHO * Please note the specific parameters:
ECHO *
ECHO * PE input : complete directory and filename of PE file
ECHO *         : %1
ECHO * PE output: complete directory and filename of PE file
ECHO *         : %2
ECHO *
ECHO * Example
ECHO * PROCPE82  C:\PACBASE\SAVE\PE82  C:\PACBASE\SAVE\PE
ECHO *********************************************************
ECHO .
ECHO Press Control_C to stop procedure execution
PAUSE
ECHO .
REM *********************************************************
REM * VA Pac : RETRIEVAL OF USER PARAMETER BACKUP 8.0.2
REM *
REM *********************************************************
SET  PAC7IN=%1
SET  PAC7OU=%2
ECHO Execution: PTU903
PTU903
IF ERRORLEVEL 1 GOTO ERR903
IF NOT ERRORLEVEL 0 GOTO ERR903
REM *********************************************************
ECHO End of procedure
GOTO END
REM *********************************************************
:ERR903
ECHO Error in executing PTU903
PAUSE
:END
ECHO ON
```

4.3. PG82 - RETRIEVAL OF GENERATION AND PRINT COMMAND

```
ECHO OFF
CLS
ECHO .
ECHO .
ECHO ********************************************************
ECHO *                    PG82 PROCEDURE
ECHO *                    ==============
ECHO * Please note the specific parameters:
ECHO *
ECHO * PG input : complete directory and filename of PG file
ECHO *          : to be retrieved (8.0.2)
ECHO *          : %1
ECHO * PG output: complete directory and filename of PG file
ECHO *          : %2
ECHO *
ECHO * Example
ECHO * PROCPG82 C:\PACBASE\SAVE\B0\PG82 C:\PACBASE\SAVE\B0\PG
ECHO ********************************************************
ECHO .
ECHO Press Control_C to stop procedure execution
PAUSE
ECHO .
REM ********************************************************
REM * VA Pac : PACBASE 8.0.2 RETRIEVAL
REM * RETRIEVAL OF A GENERATION AND PRINT COMMAND BACKUP
REM ********************************************************
SET  PAC7IN=%1
SET  PAC7OU=%2
ECHO Execution : PTU906
PTU906
IF ERRORLEVEL 1 GOTO ERR906
IF NOT ERRORLEVEL 0 GOTO ERR906
REM ********************************************************
ECHO End of procedure
GOTO END
REM ********************************************************
:ERR906
ECHO Error in executing PTU906
PAUSE
:END
ECHO ON
```

4.4. PJ82 - RETRIEVAL OF ARCHIVE JOURNAL

```
ECHO OFF
CLS
ECHO .
ECHO .
ECHO ********************************************************
ECHO *                    PJ82 PROCEDURE
ECHO *                    ==============
ECHO *  Please note the specific parameters:
ECHO *
ECHO *  PJ input  : complete directory and filename of PJ file
ECHO *            : %1
ECHO *  PJ output : complete directory and filename of PJ file
ECHO *            : %2
ECHO *
ECHO *  Example
ECHO *    C:\PAC\SAVE\B0\PJ  C:\PAC\SAVE\B0\PJ.NEW
ECHO ********************************************************
ECHO .
ECHO Press Control_C to stop procedure execution
PAUSE
ECHO .
REM ********************************************************
REM * VA Pac : RETRIEVAL OF THE 8.0.2 ARCHIVED JOURNAL
REM *
REM ********************************************************
SET  PAC7PJ=%1
SET  PAC7JP=%2
ECHO Execution : REP2PJ
REP2PJ
IF ERRORLEVEL 1 GOTO ERR2PJ
IF NOT ERRORLEVEL 0 GOTO ERR2PJ
REM ********************************************************
ECHO End of procedure
GOTO END
REM ********************************************************
:ERR2PJ
ECHO Error executing REP2PJ
PAUSE
:END
ECHO ON
```

4.5. PP82 - RETRIEVAL OF PRODUCTION ENVIRONMENT

```
ECHO OFF
CLS
ECHO .
ECHO .
ECHO *********************************************************
ECHO *                    PP82 PROCEDURE
ECHO *                    ==============
ECHO * Please note the specific parameters:
ECHO *
ECHO * PP input : complete directory and filename of PP file
ECHO *          : %1
ECHO * PP output: complete directory and filename of PP file
ECHO *          : %2
ECHO * tmp      : complete temporary file directory
ECHO *          : %3
ECHO *
ECHO * Example
ECHO * PROCPP82 C:\PACBASE\SAVE\B0\PP82 C:\PACBASE\SAVE\B0\PP
ECHO *          C:\PACBASE\TMP
ECHO *********************************************************
ECHO .
ECHO Press Control_C to stop procedure execution
PAUSE
ECHO .
REM *********************************************************
REM * VA Pac : PACBASE 8.0.2 RETRIEVAL
REM * RETRIEVAL OF PEI 8.0.2 BACKUP
REM *********************************************************
SET  PAC7IN=%1
SET  PAC7OU=%3\PP16
ECHO Execution: PTU907
PTU907
IF ERRORLEVEL 1 GOTO ERR907
IF NOT ERRORLEVEL 0 GOTO ERR907
REM *********************************************************
SET  PAC7PE=%3\PP16
SET  PAC7PS=%2
ECHO Execution: PACR90
PACR90
IF ERRORLEVEL 1 GOTO ERRR90
IF NOT ERRORLEVEL 0 GOTO ERRR90
REM *********************************************************
ECHO End of procedure
ECHO .
ECHO Deletion of temporary file %3\PP16
DEL  %3\PP16
GOTO END
REM *********************************************************
:ERR907
ECHO Error in executing PTU907
GOTO ERR
:ERRR90
ECHO Error in executing PACR90
:ERR
PAUSE
:END
ECHO ON
```

5. RETRIEVAL OF PACBASE 8.0 OR 8.0.1

5.1. 8.0, 8.0.1 RETRIEVALS - OPERATIONS TO BE PERFORMED

8.0, 8.01 RETRIEVALS: OPERATIONS TO BE PERFORMED

The retrieval of existing applications allowing for the transformation of a
PACBASE 8.0 or 8.0.1 database into a database compatible with the new release
is broken down into the following phases:

  . Retrieval of 8.0 user parameters

  . Retrieval of 8.0 database(s)

  . Retrieval of generation-print requests

  . Retrieval of the archived journal

For users of the PEI function:

  . Retrieval of Production Environment Interface (PEI)

For users of the WorkStation:

  . Retrieval of YSM methodology

  . The WorkStation's dedicated User Entities must be uploaded into the
   Database via the UPDT procedure, after the Database has been retrieved and
   restored in the new release.

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1-Retrieval of User parameters

. Retrieval of the 8.0 or 8.0.1 user parameters backup (PE80 procedure).

CAUTION: The SYSTEM ACCESS KEY must be entered on the NK input line of the retrieval procedure.

. Re-initialization of the AE file from the AE0 file supplied for installation.

. Execution of the PARM procedure of the new release using as input the PE backup file produced by the parameter retrieval, the '********' user code, and NRREST as input parameter.

. Use of the WorkStation: new execution of the new PARM procedure. The input should include the transactions associated to the parameters settings for the methodology used (NRCHAR command).

Refer to the paragraph describing the installation of the methodology choices, in Chapter 'INSTALLATION' of the Environment & Installation manual for this VisualAge Pacbase release. Refer in particular to the loading of error messages - on-line help and to the user parameters.

RESULT: The AE and AP files, containing the 8.0 user parameters, are retrieved in the format of the new release.

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2-Retrieval of an 8.0 Database

. 8.0 backup of the database whose output is an 8.0 PC file (8.0 SAVE
  procedure).

. Retrieval of the resulting 8.0 PC file in the new format (PC80 procedure),
  producing a new-format PC backup.

. If you are using the YSM methodogy with the new release of the
  WorkStation, retrieval of YSM methodology (PCYS procedure) from the new-
  format PC backup.

. Reorganization (REOR of new release) of the new-format backup obtained
  from the previous step.

. Initialization of journal file (ARCH of new release).

. Database restoration (REST of new release) using as input the PC backup
  obtained from REOR.

     If libraries, sessions, and/or user codes have been deleted via the
     database reorganization, the corresponding transactions must be
     entered for the reorganization of the AG file. Obsolete generation-print
     requests related to deleted sessions or libraries will be purged. Requests
     entered by users in 8.0 and cancelled in the new release will also be
     purged from the AG file.

RESULT: The AJ, AN, AR, and AG files are operational under the new
VisualAge Pacbase Release.

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3-Retrieval of 8.0 generation-print requests

  . 8.0 backup of the 8.0 AG file (8.0 SVAG procedure).

  . Retrieval of the resulting 8.0 PG file (PG80 procedure). The output is a PG
    backup in the format of the new release.

  . Reorganization-restoration of the generation-print requests (REAG of the new
    release) using as input the 8.0 PG backup obtained in the previous step.

RESULT: The AG file is operational under the new VisualAge Pacbase release.

4-Retrieval of the 8.0 Archived Journal

  . Archiving in 8.0 release format of the 8.0 journal (8.0 ARCH procedure).

  . Retrieval of the resulting 8.0 PJ archived journal in the new format (PJ80
    procedure). The output is a PJ archived journal in the format of the new
    release.

RESULT: The PJ file is operational under the new VisualAge Pacbase release.

This enables you to use the new releases of the procedures to analyze (ACTI
procedure), extract (EXPJ procedure), restore-retrieve (REST/RESY procedures
with the REC parameter) the transactions archived in the 8.0 release.

DSMS users who have modified their product code(s) in DSMS can perform this
code change in the PACBASE journal, via a user input in the PJ80 procedure.

With release 8.0.2 or later of the DSMS Function, the user can modify the
Product code when retrieving the previous DSMS release. The code format
changes from 1 to 3 characters.

This possibility is also offered when retrieving the PACBASE archived journal
from a previous release.

USER INPUT (optional)

```
+---------------------------------------------------------+
! Pos. ! Len. ! Value ! Meaning                           !
!---------------------------------------------------------!
!  1  !   4  ! 'onnn'! Modification of DSMS Product Code  !
!     !     !       ! o   = former Product Code           !
!     !     !       ! nnn = new Product Code              !
!     !     !       !     (1, 2 or 3 characters)          !
+---------------------------------------------------------+
```

On a line, the 'onnn' character string may be repeated as many times as there are
Product Codes to be modified, withing the limit of 20.

NOTE: The validity of this input is not checked for proper syntax. The procedure's
       syntax should be carefully checked before execution, since no output report is
       produced.

5-Retrieval of the 8.0 Production Environment

  . 8.0 backup of the production environment (8.0 SVPE procedure). The output
    is a 8.0 PP file.

  . Retrieval of the resulting 8.0 PP backup in the new format.

  . Retrieval of the resulting 8.0 PP in the new format (PP80 procedure). The
    output is a PP backup in the new release's format.

  . Restoration of the production environment (new RSPE procedure) using as
    input the backup produced by the previous step.

RESULT: The AB and AC files are operational under the new VisualAge
Pacbase release.

6-Retrieval of the YSM Methodology

Perform the retrieval of PACBASE 8.0/8.0.1 as described in step 2 by executing
the PCYS procedure after retrieving the PC file (PC80 procedure), and before
reorganizing the database (REOR procedure).

Retrieval of the Archived Journal is also available (PJYS).

Refer to Chapter 'RETRIEVAL OF THE YSM METHODOLOGY' for complete
information about these procedures.

5.2. PE80 - RETRIEVAL OF USER PARAMETERS

```
ECHO OFF
CLS
ECHO .
ECHO .
ECHO ********************************************************
ECHO *                    PE80 PROCEDURE
ECHO *                    ==============
ECHO * Please note the specific parameters:
ECHO *
ECHO * PE input : complete directory and filename of PE file
ECHO *          : 8.0 or 8.0.1, to be retrieved
ECHO *          : %1
ECHO * PE output: complete directory and filename of PE file
ECHO *          : (user parameters in the new format)
ECHO *          : %2
ECHO * INPUT    : transaction file directory
ECHO *          : %3
ECHO *
ECHO * Example
ECHO * PROCPE80 C:\PACBASE\SAVE\PE80 C:\PACBASE\SAVE\PE
ECHO *          C:\PACBASE\INPUT\B0
ECHO ********************************************************
PAUSE
ECHO ********************************************************
ECHO *        CAUTION : VERY IMPORTANT        ***************
ECHO ********************************************************
ECHO * IF NEW VA Pac ACCESS KEYS HAVE BEEN NOTIFIED:
ECHO * DO NOT FORGET TO SPECIFY THESE NEW KEYS, SUPPLIED WITH
ECHO * THE PRODUCT, IN THE MBPE80 FILE:
ECHO 1234567..10........20........30.....7..40........50........
ECHO  NK000(--------------------- ACCES KEY -------------------
ECHO *---------------------------------------------------------
ECHO * IF YOUR CURRENT ACCESS KEYS ARE STILL VALID:
ECHO *    DESACTIVATE THE LINE : SET PAC7MC=%3\MBPE80
ECHO *    ACTIVATE    THE LINE : SET PAC7MC=NUL
ECHO ********************************************************
ECHO .
ECHO Press Control_C to stop procedure execution
PAUSE
ECHO .
REM ********************************************************
REM * VA Pac : RETRIEVAL OF USER PARAMETER BACKUP 8.0/8.0.1
REM *
REM ********************************************************
SET  PAC7MC=%3\MBPE80
REM  SET  PAC7MC=NUL
SET  PAC7IN=%1
SET  PAC7OU=%2
ECHO Execution: PTU902
PTU902
IF ERRORLEVEL 1 GOTO ERR902
IF NOT ERRORLEVEL 0 GOTO ERR902
REM ********************************************************
ECHO End of procedure
GOTO END
REM ********************************************************
:ERR902
ECHO Error in executing PTU902
PAUSE
:END
ECHO ON
```

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5.3. PC80 - RETRIEVAL OF PACBASE DATABASE

```
ECHO OFF
CLS
ECHO .
ECHO .
ECHO *********************************************************
ECHO *                    PC80 PROCEDURE
ECHO *                    ==============
ECHO * Please note the specific parameters:
ECHO *
ECHO * PC input : complete directory and filename of PC file
ECHO *          : %1
ECHO * PC output: complete directory and filename of PC file
ECHO *          : %2
ECHO *
ECHO * Example
ECHO * PROCPC80 C:\PACBASE\SAVE\B0\PC80 C:\PACBASE\SAVE\B0\PC
ECHO *********************************************************
ECHO .
ECHO Press Control_C to stop procedure execution
PAUSE
ECHO .
REM *********************************************************
REM * VA Pac : PACBASE 8.0/8.0.1 RETRIEVAL
REM * RETRIEVAL OF A 8.0/8.0.1 DATABASE BACKUP
REM *********************************************************
SET  PAC7MC=%1
SET  PAC7PC=%2
ECHO Execution : REPGDP
REPGDP
IF ERRORLEVEL 1 GOTO ERRGDP
IF NOT ERRORLEVEL 0 GOTO ERRGDP
REM *********************************************************
ECHO End of procedure
GOTO END
REM *********************************************************
:ERRGDP
ECHO Error in executing REPGDP
PAUSE
:END
ECHO ON
```

5.4. PG80 - RETRIEVAL OF GENERATION AND PRINT COMMAND

```
ECHO OFF
CLS
ECHO .
ECHO .
ECHO ***********************************************************
ECHO *                      PG80 PROCEDURE
ECHO *                      ==============
ECHO * Please note the specific parameters:
ECHO *
ECHO * PG input : complete directory and filename of PG file
ECHO *          : to be retrieved (8.0 or 8.0.1)
ECHO *          : %1
ECHO * PG output: complete directory and filename of PG file
ECHO *          : %2
ECHO *
ECHO * Example
ECHO * PROCPG80 C:\PACBASE\SAVE\B0\PG80 C:\PACBASE\SAVE\B0\PG
ECHO ***********************************************************
ECHO .
ECHO Press Control_C to stop procedure execution
PAUSE
ECHO .
REM ***********************************************************
REM * VA Pac : PACBASE 8.0/8.0.1 RETRIEVAL
REM * RETRIEVAL OF A GENERATION AND PRINT COMMAND BACKUP
REM ***********************************************************
SET  PAC7IN=%1
SET  PAC7OU=%2
ECHO Execution : PTU906
PTU906
IF ERRORLEVEL 1 GOTO ERR906
IF NOT ERRORLEVEL 0 GOTO ERR906
REM ***********************************************************
ECHO End of procedure
GOTO END
REM ***********************************************************
:ERR906
ECHO Error in executing PTU906
PAUSE
:END
ECHO ON
```

5.5. PJ80 - RETRIEVAL OF ARCHIVE JOURNAL

```
ECHO OFF
CLS
ECHO .
ECHO .
ECHO *************************************************************
ECHO *                     PJ80 PROCEDURE
ECHO *                     ==============
ECHO * Please note the specific parameters:
ECHO *
ECHO * PJ input : complete directory and filename of PJ file
ECHO *          : %1
ECHO * PJ output: complete directory and filename of PJ file
ECHO *          : %2
ECHO * Input    : transaction file directory
ECHO *          : %3
ECHO * Tempo.   : temporary file directory
ECHO *          : %3
ECHO *
ECHO * Example
ECHO * PROCPJ80 C:\PACBASE\SAVE\B0\PJ80 C:\PACBASE\SAVE\B0\PJ
ECHO *          C:\PACBASE\INPUT\B0 C:\PACBASE\TMP
ECHO *************************************************************
ECHO .
ECHO Press Control_C to stop procedure execution
PAUSE
ECHO .
REM *************************************************************
REM * VA Pac : PACBASE 8.0/8.0.1 RETRIEVAL
REM * RETRIEVAL OF THE 8.0/8.0.1 ARCHIVED JOURNAL
REM *************************************************************
SET  PAC7MB=%3\MBPJ80
REM SET  PAC7MB=NUL
SET  PAC7IN=%1
SET  PAC7OU=%4\PJ16
ECHO Execution: PTU917
PTU917
IF ERRORLEVEL 1 GOTO ERR917
IF NOT ERRORLEVEL 0 GOTO ERR917
REM *************************************************************
SET  PAC7PJ=%4\PJ16
SET  PAC7JP=%2
ECHO Execution: REP2PJ
REP2PJ
IF ERRORLEVEL 1 GOTO ERR2PJ
IF NOT ERRORLEVEL 0 GOTO ERR2PJ
REM *************************************************************
ECHO End of procedure
ECHO .
ECHO Deletion of temporary file %4\PJ16
DEL  %4\PJ16
GOTO END
REM *************************************************************
:ERR917
ECHO Error in executing PTU917
GOTO ERR
:ERR2PJ
ECHO Error in executing REP2PJ
:ERR
PAUSE
:END
ECHO ON
```

5.6. PP80 - RETRIEVAL OF PRODUCTION ENVIRONMENT

```
ECHO OFF
CLS
ECHO .
ECHO .
ECHO *********************************************************
ECHO *                    PP80 PROCEDURE
ECHO *                    ==============
ECHO * Please note the specific parameters:
ECHO *
ECHO * PP input : complete directory and filename of PP file
ECHO *          : %1
ECHO * PP output: complete directory and filename of PP file
ECHO *          : %2
ECHO * tmp      : complete temporary file directory
ECHO *          : %3
ECHO *
ECHO * Example
ECHO * PROCPP80 C:\PACBASE\SAVE\B0\PP80 C:\PACBASE\SAVE\B0\PP
ECHO *          C:\PACBASE\TMP
ECHO *********************************************************
ECHO .
ECHO Press Control_C to stop procedure execution
PAUSE
ECHO .
REM *********************************************************
REM * VA Pac : PACBASE 8.0/8.0.1 RETRIEVAL
REM * RETRIEVAL OF PEI 8.0/8.0.1 BACKUP
REM *********************************************************
SET  PAC7IN=%1
SET  PAC7OU=%3\PP16
ECHO Execution: PTU907
PTU907
IF ERRORLEVEL 1 GOTO ERR907
IF NOT ERRORLEVEL 0 GOTO ERR907
REM *********************************************************
SET  PAC7PE=%3\PP16
SET  PAC7PS=%2
ECHO Execution: PACR90
PACR90
IF ERRORLEVEL 1 GOTO ERRR90
IF NOT ERRORLEVEL 0 GOTO ERRR90
REM *********************************************************
ECHO End of procedure
ECHO .
ECHO Deletion of temporary file %3\PP16
DEL  %3\PP16
GOTO END
REM *********************************************************
:ERR907
ECHO Error in executing PTU907
GOTO ERR
:ERRR90
ECHO Error in executing PACR90
:ERR
PAUSE
:END
ECHO ON
```

6. RETRIEVAL OF PACBASE 7.3

6.1. 7.3 RETRIEVAL - OPERATIONS TO BE PERFORMED

7.3 RETRIEVAL: OPERATIONS TO BE PERFORMED

The retrieval of existing applications allowing for the transformation of a PACBASE 7.3 database into a new database is broken down into the following phases:

. Retrieval of 7.3 user parameters

. Retrieval of 7.3 database(s)

. Retrieval of generation-print requests

. Retrieval of archived journal

For users of the PEI function:

. Retrieval of 7.3 Production Environment

These operations require the use of standard Database management procedures of the new VisualAge Pacbase release.

Once the Database has been retrieved and restored, User Entities specific to the WorkStation must be re-introduced into the Database via the UPDT batch update procedure.

1-Retrieval of User parameters

. Retrieval of the User parameters backup from the 7.3 release (procedure
PE73).

CAUTION: ENTER THE NEW SYSTEM ACCESS KEY ON THE
NK LINE AS INPUT TO THE EXECUTION JCL PROVIDED.

. Re-initialization of the AE file from the AE0 file supplied for installation.

. Execution of the new PARM procedure using as input the PE backup file
from the parameter retrieval, the user code '********', and NRREST as input
parameter.

. Use of the WorkStation: new execution of the new PARM procedure. The
input should include the transactions associated to the parameters settings for
the methodology used (NRCHAR command).

Refer to the Chapter INSTALLATION of your Environment &
Installation manual for the current VisualAge Pacbase release shipped
with your platform. Refer in particular to the paragraph related to the
loading the error messages, on-line help and user parameters and more
precisely to the use of Pacdesign, methodology parameterizing.

Result: The AE and AP files containing the 7.3 parameters are retrieved in the
new format.

2-Retrieval of 7.3 Database(s)

. 7.3 backup of the database whose output is a 7.3 PC file (7.3 SAVE
procedure).

. Retrieval of the resulting 7.3 backup file, providing a new-format PC file
(PC73 procedure).

. Reorganization (new REOR) of the PC backup obtained in the previous step.

. Journal file initialization (new ARCH).

. Database restoration (new REST) using as input the new-format PC file
obtained from REOR.

If libraries, sessions, and/or user codes have been deleted via the
database reorganization, the corresponding transactions must be
entered for the reorganization of the AG file. Obsolete generation-print
requests related to deleted sessions or libraries will be purged. Requests
entered by users in 7.3 and cancelled in the new release will also be
purged from the AG file.

RESULT: The AJ, AN, AR, and AG files are operational under the new
VisualAge Pacbase release.

3-Retrieval of 7.3 generation-print requests

. 7.3 backup file of the 7.3 AG file (8.0.2 SVAG procedure).

. Retrieval of the resulting 7.3 PG file (PG73 procedure). The output is a PG
backup in the format of the new release.

. Reorganization-restoration of the generation-print requests (REAG of the new
release) using as input the 7.3 PG backup obtained in the previous step.

RESULT: The AG file is operational under the new VisualAge Pacbase release.

4-Retrieval of 7.3 archived journal

. Archiving in 7.3 release format of the 7.3 journal (7.3 ARCH procedure).

. Retrieval of the resulting 7.3 PJ archived journal in the new format (PJ73
procedure). The output is a PJ archived journal in the format of the new
release.

RESULT: The PJ file is operational under the new VisualAge Pacbase release.

This enables you to use the new releases of the procedures to analyze (ACTI procedure), extract (EXPJ procedure), restore-retrieve (REST/RESY procedures with the REC parameter) the transactions archived in the 7.3 release.

DSMS users who have modified their product code(s) in DSMS can perform this code change in the PACBASE journal, using an input of the PJ73 procedure.

With release 8.0.2 or later of the DSMS Function, it is possible to modify the Product Code when retrieving the previous database. The Code format changes from 1 to 3 characters.

This possibility is also offered when retrieving the PACBASE archived journal from a previous release.

USER INPUT (optional)

```
+-------------------------------------------------------+
! Pos. ! Len. ! Value ! Meaning                         !
!-------------------------------------------------------!
!  1  !   4  ! 'onnn'! Modification of DSMS Product Code !
!     !      !       ! o   = former Product Code         !
!     !      !       ! nnn = new Product Code            !
!     !      !       !     (1, 2 or 3 characters)        !
+-------------------------------------------------------+
```

On a line, the 'onnn' character string may be repeated as many times as there are Product Codes to be modified, withing the limit of 20.

NOTE: The validity of this input is not checked for proper syntax. The procedure's syntax should be carefully checked before execution, since no output report is produced.

5-Retrieval of the 7.3 Production Environment

. 7.3 backup of the Production Environment (7.3 SVPE procedure) whose output is a 7.3 PP file.

. Retrieval of the resulting 7.3 backup in the new format.

. Retrieval of the resulting 7.3 PP backup file, providing a new-format PP backup file (PP73 procedure).

. Restoration of the Production Environment (new RSPE procedure) whose input is the new-format PP file.

RESULT: The AB and AC files are operational under the new VisualAge Pacbase release.

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6.2. PE73 - RETRIEVAL OF USER PARAMETERS

```
ECHO OFF
CLS
ECHO .
ECHO .
ECHO ***********************************************************
ECHO *                    PE73 PROCEDURE
ECHO *                    ==============
ECHO * Please note the specific parameters:
ECHO *
ECHO * PE input : complete directory and filename of PE file
ECHO *          : 7.3 to be retrieved
ECHO *          : %1
ECHO * PE output: complete directory and filename of PE file
ECHO *          : (user parameters in the new format)
ECHO *          : %2
ECHO * INPUT    : transaction file directory
ECHO *          : %3
ECHO *
ECHO * Example
ECHO * PROCPE73  C:\PACBASE\SAVE\PE73 C:\PACBASE\SAVE\PE
ECHO *          C:\PACBASE\INPUT\B0
ECHO ***********************************************************
PAUSE
ECHO ***********************************************************
ECHO *      CAUTION : VERY IMPORTANT      ***************
ECHO ***********************************************************
ECHO * IF NEW VA Pac ACCESS KEYS HAVE BEEN NOTIFIED:
ECHO * DO NOT FORGET TO SPECIFY THESE NEW KEYS, SUPPLIED WITH
ECHO * THE PRODUCT, IN THE MBPE73 FILE:
ECHO 1234567..10........20........30.....7..40........50........
ECHO  NK000(--------------------- ACCES KEY -------------------
ECHO *-------------------------------------------------------
ECHO * IF YOUR CURRENT ACCESS KEYS ARE STILL VALID:
ECHO *    DESACTIVATE THE LINE : SET PAC7MC=%3\MBPE73
ECHO *    ACTIVATE    THE LINE : SET PAC7MC=NUL
ECHO ***********************************************************
ECHO .
ECHO Press Control_C to stop procedure execution
PAUSE
ECHO .
REM ***********************************************************
REM * VA Pac : RETRIEVAL OF USER PARAMETER BACKUP 7.3
REM *
REM ***********************************************************
SET  PAC7MC=%3\MBPE73
REM  SET  PAC7MC=NUL
SET  PAC7IN=%1
SET  PAC7OU=%2
ECHO Execution: PTU902
PTU902
IF ERRORLEVEL 1 GOTO ERR902
IF NOT ERRORLEVEL 0 GOTO ERR902
REM ***********************************************************
ECHO End of procedure
GOTO END
REM ***********************************************************
:ERR902
ECHO Error in executing PTU902
PAUSE
:END
ECHO ON
```

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6.3. PC73 - RETRIEVAL OF PACBASE DATABASE

```
ECHO OFF
CLS
ECHO .
ECHO .
ECHO *********************************************************
ECHO *                    PC73 PROCEDURE
ECHO *                    ==============
ECHO * Please note the specific parameters:
ECHO *
ECHO * PC input : complete directory and filename of PC file
ECHO *          : %1
ECHO * PC output: complete directory and filename of PC file
ECHO *          : %2
ECHO *
ECHO * Example
ECHO * PROCPC73 C:\PACBASE\SAVE\B0\PC73 C:\PACBASE\SAVE\B0\PC
ECHO *********************************************************
ECHO .
ECHO Press Control_C to stop procedure execution
PAUSE
ECHO .
REM *********************************************************
REM * VA Pac : PACBASE 7.3 RETRIEVAL
REM * RETRIEVAL OF A 7.3 DATABASE BACKUP
REM *********************************************************
SET  PAC7MC=%1
SET  PAC7PC=%2
ECHO Execution : PTURPC
PTURPC
IF ERRORLEVEL 1 GOTO ERRRPC
IF NOT ERRORLEVEL 0 GOTO ERRRPC
REM *********************************************************
ECHO End of procedure
GOTO END
REM *********************************************************
:ERRRPC
ECHO Error in executing PTURPC
PAUSE
:END
ECHO ON
```

6.4. PG73 - RETRIEVAL OF GENERATION AND PRINT COMMAND

```
ECHO OFF
CLS
ECHO .
ECHO .
ECHO *********************************************************
ECHO *                      PG73 PROCEDURE
ECHO *                      ==============
ECHO * Please note the specific parameters:
ECHO *
ECHO * PG input : complete directory and filename of PG file
ECHO *          : to be retrieved (7.3)
ECHO *          : %1
ECHO * PG output: complete directory and filename of PG file
ECHO *          : %2
ECHO *
ECHO * Example
ECHO * PROCPG73 C:\PACBASE\SAVE\B0\PG73 C:\PACBASE\SAVE\B0\PG
ECHO *********************************************************
ECHO .
ECHO Press Control_C to stop procedure execution
PAUSE
ECHO .
REM *********************************************************
REM * VA Pac : PACBASE 7.3 RETRIEVAL
REM * RETRIEVAL OF A GENERATION AND PRINT COMMAND BACKUP
REM *********************************************************
SET  PAC7IN=%1
SET  PAC7OU=%2
ECHO Execution : PTU906
PTU906
IF ERRORLEVEL 1 GOTO ERR906
IF NOT ERRORLEVEL 0 GOTO ERR906
REM *********************************************************
ECHO End of procedure
GOTO END
REM *********************************************************
:ERR906
ECHO Error in executing PTU906
PAUSE
:END
ECHO ON
```

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6.5. PJ73 - RETRIEVAL OF ARCHIVE JOURNAL

```
ECHO OFF
CLS
ECHO .
ECHO .
ECHO ************************************************************
ECHO *                    PJ73 PROCEDURE
ECHO *                    ==============
ECHO * Please note the specific parameters:
ECHO *
ECHO * PJ input : complete directory and filename of PJ file
ECHO *          : %1
ECHO * PJ output: complete directory and filename of PJ file
ECHO *          : %2
ECHO * Input    : transaction file directory
ECHO *          : %3
ECHO * Tempo.   : temporary file directory
ECHO *          : %3
ECHO *
ECHO * Example
ECHO * PROCPJ73 C:\PACBASE\SAVE\B0\PJ73 C:\PACBASE\SAVE\B0\PJ
ECHO *          C:\PACBASE\INPUT\B0 C:\PACBASE\TMP
ECHO ************************************************************
ECHO .
ECHO Press Control_C to stop procedure execution
PAUSE
ECHO .
REM ************************************************************
REM * VA Pac : PACBASE 7.3 RETRIEVAL
REM * RETRIEVAL OF THE 7.3 ARCHIVED JOURNAL
REM ************************************************************
SET  PAC7IN=%1
SET  PAC7OU=%4\PJ80
ECHO Execution: PTU916
PTU916
IF ERRORLEVEL 1 GOTO ERR916
IF NOT ERRORLEVEL 0 GOTO ERR916
REM ************************************************************
SET  PAC7MB=%3\MBPJ73
REM SET  PAC7MB=NUL
SET  PAC7IN=%4\PJ80
SET  PAC7OU=%4\PJ16
ECHO Execution: PTU917
PTU917
IF ERRORLEVEL 1 GOTO ERR917
IF NOT ERRORLEVEL 0 GOTO ERR917
REM ************************************************************
ECHO Deletion of temporary file %4\PJ80
DEL  %4\PJ80
SET  PAC7PJ=%4\PJ16
SET  PAC7JP=%2
ECHO Execution: REP2PJ
REP2PJ
IF ERRORLEVEL 1 GOTO ERR2PJ
IF NOT ERRORLEVEL 0 GOTO ERR2PJ
REM ************************************************************
ECHO End of procedure
ECHO .
ECHO Deletion of temporary file %4\PJ16
DEL  %4\PJ16
GOTO END
REM ************************************************************
:ERR916
ECHO Error in executing PTU916
GOTO ERR
:ERR917
ECHO Error in executing PTU917
GOTO ERR
:ERR2PJ
```

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```
ECHO Error in executing REP2PJ
:ERR
PAUSE
:END
ECHO ON
```

6.6. PP73 - RETRIEVAL OF PRODUCTION ENVIRONMENT

```
ECHO OFF
CLS
ECHO .
ECHO .
ECHO ************************************************************
ECHO *                    PP73 PROCEDURE
ECHO *                    ==============
ECHO * Note the specific parameters:
ECHO *
ECHO * PP input : complete directory and filename of PP file
ECHO *          : %1
ECHO * PP output: complete directory and filename of PP file
ECHO *          : %2
ECHO * AE       : complete directory of AE file
ECHO *          : %3
ECHO * tmp      : complete temporary file directory
ECHO *          : %4
ECHO *
ECHO * Example
ECHO * PROCPP73 C:\PACBASE\SAVE\B0\PP73 C:\PACBASE\SAVE\B0\PP
ECHO *          C:\PACBASE\BASES C:\PACBASE\TMP
ECHO ************************************************************
ECHO .
ECHO Press Control_C to stop procedure execution
PAUSE
ECHO .
REM ************************************************************
REM * VA Pac : PACBASE 7.3 RETRIEVAL
REM * RETRIEVAL OF PEI 7.3 BACKUP
REM ************************************************************
SET  PAC7PI=%1
SET  PAC7PP=%4\PP80
SET  PAC7AE=%3\AE
SET  PAC7IB=%4\PP73IB.R02
ECHO Execution: PACR02
PACR02
IF ERRORLEVEL 1 GOTO ERRR02
IF NOT ERRORLEVEL 0 GOTO ERRR02
REM ************************************************************
SET  PAC7IN=%4\PP80
SET  PAC7OU=%4\PP16
ECHO Execution: PTU907
PTU907
IF ERRORLEVEL 1 GOTO ERR907
IF NOT ERRORLEVEL 0 GOTO ERR907
REM ************************************************************
ECHO Deletion of temporary file %4\PP80
DEL  %4\PP80
SET  PAC7PE=%4\PP16
SET  PAC7PS=%2
ECHO Execution: PACR90
PACR90
IF ERRORLEVEL 1 GOTO ERRR90
IF NOT ERRORLEVEL 0 GOTO ERRR90
REM ************************************************************
ECHO End of procedure
ECHO .
ECHO Deletion of temporary file %4\PP16
DEL  %4\PP16
GOTO END
REM ************************************************************
:ERRR02
ECHO Error in executing PACR02
GOTO ERR
:ERR907
ECHO Error in executing PTU907
GOTO ERR
:ERRR90
```

RETRIEVAL OF PACBASE 7.3   6
PP73 - RETRIEVAL OF PRODUCTION ENVIRONMENT   6

```
ECHO Error in executing PACR90
:ERR
PAUSE
:END
ECHO ON
```

7. RETRIEVAL OF THE YSM METHODOLOGY

7.1. YSM RETRIEVAL - OPERATIONS TO BE PERFORMED

<u>YSM METHODOLOGY RETRIEVAL OPERATIONS</u>

Since release 8.0.2 02, PACBASE has allowed several methodologies to be kept in the same library sub-network. The internal names of the WorkStation YSM entities have been changed specifically for this purpose.
Therefore, it is necessary to retrieve the YSM methodology when receiving the present release, if:

. 1st case: You have an 8.0.1 PACBASE release; YSM retrieval is then comprised into the 8.0.1 PACBASE retrieval. In this chapter, you need only take into account what refers to the RTYS procedure.

. 2nd case: You have an 8.0.2 01 PACBASE release and you have to upgrade it to the present WorkStation level.

The following procedure sequence must be run to perform this retrieval:

1. ARCH:
    Creation of a PJ file.

2. SAVE:
    Creation of a PC file.

3. PCYS:
    This first special retrieval procedure operates either on the entire database or on a set of libraries, specified in the procedure's input.

The PC backup resulting from step 1 is the input of the procedure. The resulting output contains a PC(+1) backup and the list of the database libraries which have been modified.

User input is optional. '*' lines are used to indicate the libraries which contain YSM entities.

When there is no '*' line, the retrieval is performed on the whole database.

NOTE: if your database contains several methodologies, you must specify the HIGHEST-LEVEL library containing the YSM methodology.

4. REOR

5. REST

6. UPDT
>   Update from the release DESYSM file.

7. OPTIONAL: Retrieval of the YSM methodology on the archived file:
>   If necessary, a retrieval of the methodology can be performed on the PJ
>   journal file resulting from the last archiving or from the retrieval. It is
>   the PJYS procedure.

The PJ backup resulting from step 1 and the list of the database libraries
modified by PCYS are used as input to the procedure. The resulting output is a
PJ(+1) backup.

8. RTYS (RETRIEVAL OF THE AFL ENTITY):
>   The AFL retrieval is performed only if you request it for a given library
>   and a given session.

The RTYS directly operates on the database by creating update transactions on
the $3V UEOs.

A '*' line is input for each Library/Session to be processed. It must be submited
once the DESYSM file containing the WorkStation entities for the new release
has been loaded.

The PACBASE database is the input of the procedure.

The resulting output is a file which contains update transactions.

7.2. RETRIEVAL OF PC FILE   (PCYS)

7.2.1. DESCRIPTION OF STEPS   (PCYS)

```
YSM RETRIEVAL: REPYSM

.Permanent input file:
 -Backup file
  PAC7MC

.Transaction file:
 -User input
  PAC7MB

.Output files:
 -Backup file
  PAC7PC
 -List of modified libraries
  PAC7MD
```

7.2.2. EXECUTION JCL   (PCYS)

```
ECHO OFF
CLS
ECHO .
ECHO .
ECHO **********************************************************
ECHO *                    PCYS PROCEDURE
ECHO *                    ==============
ECHO *  Release (with \)                      : %1
ECHO *  Name of the Database                  : %2
ECHO *  Temporary file directory              : %3
ECHO *  Volume of ASSIGN and BATCH directories : %4
ECHO *  Volume of INPUT directory             : %5
ECHO *  Volume of SAVE directory              : %6
ECHO **********************************************************
ECHO .
CALL %4:%1\BATCH\PROC\MSGPAUSE.CMD
ECHO .
REM **********************************************************
REM * VA Pac : YSM METHODOLOGY RETRIEVAL - PC FILE
REM **********************************************************
SET  PAC7MC=%6:%1\SAVE\%2\PC
SET  PAC7MB=%5:%1\INPUT\%2\MBPCYS
SET  PAC7PC=%6:%1\SAVE\%2\PC.NEW
SET  PAC7MD=%5:%1\INPUT\%2\MVPCYS
ECHO Execution: REPYSM
REPYSM
IF ERRORLEVEL 1 GOTO ERRYSM
IF NOT ERRORLEVEL 0 GOTO ERRYSM
REM **********************************************************
ECHO End of procedure
ECHO .
ECHO Calling the file PCBACKUP.CMD
CALL %6:%1\SAVE\%2\PCBACKUP.CMD %6 %1 %2
ECHO .
ECHO Copy of file MVPCYS on MBPJYS (input of PJYS)
COPY %5:%1\INPUT\%2\MVPCYS %5:%1\INPUT\%2\MBPJYS
GOTO END
REM **********************************************************
:ERRYSM
ECHO Error in executing REPYSM
:ERR
PAUSE
:END
ECHO ON
```

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7.3. RETRIEVAL OF PJ FILE   (PJYS)

7.3.1. DESCRIPTION OF STEPS   (PJYS)

```
        YSM RETRIEVAL: REJYSM

        .Permanent input files:
         -Backup file
          PAC7MJ
         -List of libraries modified in the
          PCYS retrieved-PC file
          PAC7MD

        .Output files:
         -Backup file
          PAC7PJ
```

7.3.2. EXECUTION JCL   (PJYS)

```
ECHO OFF
CLS
ECHO .
ECHO .
ECHO ********************************************************
ECHO *                   PJYS PROCEDURE
ECHO *                   ==============
ECHO *  Release (with \)                     : %1
ECHO *  Name of the Database                 : %2
ECHO *  Temporary file directory             : %3
ECHO *  Volume of ASSIGN and BATCH directories : %4
ECHO *  Volume of INPUT directory            : %5
ECHO *  Volume of SAVE directory             : %6
ECHO ********************************************************
ECHO .
CALL %4:%1\BATCH\PROC\MSGPAUSE.CMD
ECHO .
REM ********************************************************
REM * VA Pac : YSM METHODOLOGY RETRIEVAL - PJ FILE
REM ********************************************************
SET  PAC7MJ=%6:%1\SAVE\%2\PJ
SET  PAC7MD=%5:%1\INPUT\%2\MBPJYS
SET  PAC7PJ=%6:%1\SAVE\%2\PJ.NEW
ECHO Execution: REJYSM
REJYSM
IF ERRORLEVEL 1 GOTO ERRYSM
IF NOT ERRORLEVEL 0 GOTO ERRYSM
REM ********************************************************
ECHO End of procedure
ECHO .
ECHO Calling the file PJBACKUP.CMD
CALL %6:%1\SAVE\%2\PJBACKUP.CMD %6 %1 %2
GOTO END
REM ********************************************************
:ERRYSM
ECHO Error in executing REJYSM
:ERR
PAUSE
:END
ECHO ON
```

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7.4. RETRIEVAL OF USER ENTITIES   (RTYS)

7.4.1. DESCRIPTION OF STEPS   (RTYS)

```
RETRIEVAL OF USER ENTITIES: REPAFL

.Permanent input files:
 -Data file
   PAC7AR
 -Index file
   PAC7AN
 -Error message file
   PAC7AE

.Transaction file:
 -User input
   PAC7MB

.Input/Output file:
 -PAF work file
   SYSPAF

.Output file:
 -Update transactions
   PAC7MV
```

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7.4.2. EXECUTION JCL   (RTYS)

```
ECHO OFF
CLS
ECHO .
ECHO .
ECHO ********************************************************
ECHO *                    RTYS PROCEDURE
ECHO *                    ==============
ECHO *  Release (with \)                     : %1
ECHO *  Name of the Database                 : %2
ECHO *  Temporary file directory             : %3
ECHO *  Volume of ASSIGN and BATCH directories : %4
ECHO *  Volume of INPUT directory            : %5
ECHO ********************************************************
ECHO .
CALL %4:%1\BATCH\PROC\MSGPAUSE.CMD
ECHO .
REM ********************************************************
REM * VA Pac : YSM METHODOLOGY RETRIEVAL - AFL ENTITY
REM ********************************************************
CALL %4:%1\ASSIGN\%2\PAC7AE.CMD
CALL %4:%1\ASSIGN\%2\PAC7AN.CMD
CALL %4:%1\ASSIGN\%2\PAC7AR.CMD
SET  SYSPAF=%3\WPAF
SET  PAC7MB=%5:%1\INPUT\%2\MBRTYS
SET  PAC7MV=%5:%1\INPUT\%2\MVRTYS
ECHO Execution: REPAFL
REPAFL
IF ERRORLEVEL 1 GOTO ERRAFL
IF NOT ERRORLEVEL 0 GOTO ERRAFL
REM ********************************************************
ECHO End of procedure
ECHO .
ECHO Deletion of PAF work file
DEL  %3\WPAF.*
GOTO END
REM ********************************************************
:ERRYSM
ECHO Error in executing REPAFL
:ERR
PAUSE
:END
ECHO ON
```

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8. SPECIAL UTILITIES

8.1. INTRODUCTION

<u>INTRODUCTION</u>

The special utilities, supplied with the Specifications Dictionary function, allow you to perform specific processing in the Database, in order to retrieve your older-version data.

TRUV: Conversion of user manual description transactions ('U' entity) into Volume description transaction (PDM - 'V' entity).

8.2. TRUV-CHANGE OF U-ENTITY TRANSACT. INTO V-ENTITIES

RMTD:

TRUV: CONVERSION OF USER MANUALS INTO VOLUMES

The TRUV procedure transforms User Manual definition and description lines
(resulting from the extraction of the 'U' entity from the database by the PACX-
EXTR procedure) into Volume definition and description lines, which in turn
can be used as input to the Database Updating (UPDT) procedure.

EXECUTION CONDITION

None, since the database is not directly updated.

8.2.1. TRUV-USER INPUT

                          TRUV: USER INPUT
          One '*'-line is required:

          ! POS.! LEN.! VALUE ! MEANING   !
          !--!
          ! 2 ! 1 ! '*'   ! Line code   !
          ! 3 ! 8 !uuuuuuuu! User code   !
          ! 11 ! 8 !pppppppp! User password   !
          ! 19 ! 3 ! bbb   ! Library code to be extracted   !
          ! 22 ! 4 ! ssss   ! Session number (default=current)   !
          ! 26 ! 1 !   ! Session status if frozen session: !
          !   !   !' ' or H! Initial version of frozen session !
          !   !   ! T   ! Test version of frozen session   !

          One 'W1' line for each Volume if the user wishes to modify
          any value retrieved from the User Manual Definition or the
          default options of the Volume Definition.

          (For more details on the Volume Definition, refer to the
          PERSONALIZED DOCUMENTATION MANAGER Reference Manual).

          ! POS.! LEN.! VALUE ! MEANING   !
          !--!
          ! 2 ! 2 ! 'W1'   ! Line code   !
          ! 4 ! 6 ! xxxxxx ! Code of the Volume to be created   !
          !   !   !   ! (default: code of User Manual)   !
          ! 10 ! 36 !   ! Clear name of the Volume (default: !
          !   !   !   ! clear name of User Manual)   !
          ! 46 ! 1 !   ! Type of Volume   !
          ! 47 ! 1 !   ! Title Page   !
          ! 48 ! 1 !   ! Table of Contents Source   !
          ! 49 ! 1 !   ! Table of Contents Placement   !
          ! 50 ! 6 !   ! Index Table Text Code   !
          ! 56 ! 3 !   ! Report code for print layout   !
          ! 59 ! 3 !   ! Report Code for Font Type   !
          ! 62 ! 3 !   ! Specific Layout Code   !
          ! 65 ! 3 !   ! Internal use only   !
          !--!
          ! 68 ! 3 !   ! Code of User Manual to be trans-   !
          !   !   !   ! formed (Required)   !
          ! 70 ! 1 ! '1'   ! Generates -TA option (NO justifica- !
          !   !   !   ! tion) for the Volume   !

          RESULT

          The result of the TRUV procedure is a sequential file containing the Volume
          Definition and Description, which can be used as input to the update procedure.

          'W1' lines that contain any errors are ignored. The resulting Volume will have
          the code and clear name of the User Manual, as well as the standard default
          options of the Volume Definition.

          The extracted transactions must not include '*'-type lines (user identification
          lines).

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8.2.2. TRUV-DESCRIPTION OF STEPS

TRANSPOSITION: PTU890

This step transforms 'U' entity transactions into 'V' entity transactions, with
possible transcoding showed by the 'W1' input lines.
.Input files:
 -'U' entity transactions
    PAC7MV
 -User input
    PAC7MB

.Output file:
 -'V' entity transactions for update
    PAC7VM

8.2.3. TRUV-EXECUTION JCL

```
ECHO OFF
CLS
ECHO .
ECHO .
ECHO *******************************************************
ECHO *                   TRUV PROCEDURE
ECHO *                   ==============
ECHO *  Release (with \)                     : %1
ECHO *  Name of the Database                 : %2
ECHO *  Temporary file directory             : %3
ECHO *  Volume of ASSIGN and BATCH directories : %4
ECHO *  Volume of INPUT directory            : %5
ECHO *******************************************************
ECHO .
CALL %4:%1\BATCH\PROC\MSGPAUSE.CMD
ECHO .
REM *******************************************************
REM * VA Pac : TRANSFORMATION OF USER MANUALS INTO VOLUMES
REM *
REM *******************************************************
REM * INPUT TRANSACTION FORMAT:
REM * .. ONE * LINE
REM *   ('F' IN COL.27: MESSAGES IN FRENCH)
REM * .. ONE W1 LINE PER 'V' ENTITY TO MODIFY (OPTIONAL)
REM *   (IF A LINE IS ERRONEOUS, IT IS IGNORED, AND THE TRANS-
REM *    POSITION WILL TAKE THE VALUES OF THE USER MANUAL.)
REM * COL 2-3   : 'W1'
REM * COL 4-9   : VOLUME CODE (GDP)
REM * COL 10-45 : CLEAR NAME OF THE VOLUME (GDP)
REM * COL 46    : VOLUME TYPE
REM * COL 47    : TITLE PAGE
REM * COL 48    : TABLE OF CONTENTS SOURCE
REM * COL 49    : TABLE OF CONTENTS PLACEMENT
REM * COL 50-55 : INDEX TABLE TEXT CODE
REM * COL 56-58 : REPORT CODE FOR PRINT LAYOUT
REM * COL 59-61 : REPORT CODE FOR CHARACTER FONTS
REM * COL 62-64 : REPORT CODE FOR SPECIFIC LAYOUT
REM * COL 65-67 : INTERNAL USE ONLY
REM * ----------------------------------------------------
REM * COL 68-69 : CODE OF USER MANUAL TO TRANSFORM (REQUIRED)
REM * COL 70    : '1' OPTION -TA OF GDP VOLUME
REM *******************************************************
SET  PAC7MB=%5:%1\INPUT\%2\MBTRUV
SET  PAC7MV=%5:%1\INPUT\%2\MVEXTR
SET  PAC7VM=%5:%1\INPUT\%2\MVTRUV
ECHO Execution: PTU890
PTU890
IF ERRORLEVEL 1 GOTO ERR890
IF NOT ERRORLEVEL 0 GOTO ERR890
REM *******************************************************
ECHO End of procedure
GOTO END
REM *******************************************************
:ERR890
ECHO Error in executing PTU890
PAUSE
:END
ECHO ON
```

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9. MIGRATION OF A VISUALAGE PACBASE DATABASE

9.1. OVERVIEW OF THE MIGRATION PROCESS

MIGRATION OF A VA PAC DATABASE ONTO A LOCAL NETWORK

This chapter describes the operations which are specific to the migration of a
VA Pac database onto another platform.

Examples:

 - Migration of an IBM/MVS platform onto an OS/2, Unix or Windows/NT
   platform,

 - Migration of an OS/2 platform onto a Unix or Windows/NT platform.

The operations include three steps:

 - On the source platform, constitution of all the sequential backups which make
   up the database, plus possible processing of these files to ensure their correct
   transfer and retrieval on the target platform.

 - Transfer of the sequential files onto the target platform.

 - On the target platform, retrieval of all the sequential files to adapt them to the
   new installation technical characteristics, and then restoration of the files
   which make up the VA Pac database on the target platform.

Refer to Chapter RESTORING FILES ON THE TARGET PLATFORM in the
Operations Manual - PART I (Environment & Installation) for each of these
platforms.

9.2. BUILDING OF FILES ON THE SOURCE PLATFORM

BUILDING OF FILES ON THE SOURCE PLATFORM

The user may refer to the BATCH PROCEDURES Operations manuals
corresponding to the source platform for the description of the procedures
presented below.

User Parameter Backup

. Execution of the PARM procedure, whose output is a user parameter PE
  backup file.

. Decryption of user passwords by the execution of the CRYP procedure, using
  the 'DECODE' parameter in input.

Database Backup

. Execution of the ARCH procedure, whose output is a PJ archived transaction
  file.

. Execution of the SAVE procedure, whose output is a PC database backup file.

. For a correct transfer of the backup, replacement of low-value by blanks in
  the PC file by the execution of the LVBL procedure.

Generation-Print Request Backup

. Execution of the SVAG procedure, whose output is a PG backup file of
  generation-print requests.

Production Environment Backup

. For users equipped with a PEI function, execution of the SVPE procedure,
  whose output is a production environment PP backup file.

Pactables backup

For users equipped with a Pactables function, two cases are possible:

. Pactables migrates onto the target platform: execution of the SVTA procedure, whose output is a TC backup file of table content and descriptions, as well as user parameters.

. Pactables remains on the source platform: in this case only the TD table description file must be present on the new development platform. Execution of the SMTD procedure, whose output is a PD backup file of table descriptions, and retrieval of this file, if necessary, to adapt it to the format of the new release.

The user may refer to the Pactables Function Operations manual to see if it is necessary to retrieve the TD file.

9.3. TRANSFER OF FILES

TRANSFER OF FILES TO THE LOCAL NETWORK

The transfer software to be used varies according to the platform. The sequential files to be transferred are output by the previous steps, i.e.:

  . PE user parameter backup,
  . PC database backup,
  . PG generation-print request backup.

And possibly:

  . PJ archived journal, if the user wants to retrieve it on the target platform,
  . PP production environment backup,
  . backup of TD table descriptions.

<u>OS/2 OR WINDOWS/NT DATABASE MIGRATION</u>

It may be necessary to modify (character conversion) these files.

For example, in the case of the PC file:

The PC file will most likely be in the the OS2 file format (the lines end with Control_M Control_J). In order to check this, print the beginning of the file with the following commands:

        head PC > PC.beg
        vi PC.beg

If Control_M appears at the end of lines, this means that it is an OS/2 formatted file. It is necessary to delete the Control_M characters with the following commands:

        cgidos2ux PC > PC.new
        mv PC.new PC

If the PC file contains accents or special characters, convert the file from the "pc850" character format to the UNIX character format ("hp" for HP9000, "iso8859" for DPX/2, DPX/20, DEC) via the following command:

        cgitrans PC PC.new pc850 hp (on HP9000)
        mv PC.new PC

NOTE: This conversion is irrelevant for the RS6000 since the character format of this machine is "pc850".

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MAINFRAME DATABASE MIGRATION:

It is possible to perform transfers with the software supplied on the UNIX computer:

The transfer features are:

  . the files to transfer are the data files (DATA),

  . the files must be converted to ASCII format,

  . the files must contain the characters that detect the end of records.

It is also possible to transfer via the work station, using a mainframe communication software. In this case the file retrieved on the UNIX machine is in the OS/2 or DOS format and it is necessary to perform the same character conversion as for the VA Pacbase migration.

NOTE: the commands cgidos2ux and cgitrans are utilities supplied with the product with PACBASE 8.0.2 and are located in the $PACDIR/bin directory.

9.4. FILE RESTORATION ON THE TARGET (LOCAL) PLATFORM

RESTORING FILES ON THE TARGET PLATFORM

PHYSICAL ORGANIZATION OF FILES

All the VA Pac indexed sequential files on OS/2, UNIX and Windows NT
releases are physically managed according to the ASCII sequence. These are the
AE, AP and AG, AB, AC files for the PEI function and TD for the Pactables
interface. The sequential backups of all these files will then be sorted according
to an ASCII sequence during the database migration onto VA Pac.

SOURCE PLATFORM RELEASE

If the source platform release is identical to that of the target platform, the
retrieval of the sequential backups will essentially consist in the conversion of
these files into the OS/2 ASCII format of the target platform.

If the source platform release is older than the target platform release, but newer
or equal to the 8.02v02 release, the PJ16 and PP16 procedures should be applied
before the above mentioned steps. (See Chapter 'RETRIEVAL OF PACBASE
802v02,... 2.0' in your Environment & Installation manual for details on these
procedures.)

If the source platform release is anterior to 8.02v02, contact VisualAge Pacbase
Support to work out the best solution.

The procedures presented below are described in Chapter 'MIGRATIONS' of the
'Batch Procedures: Administrator's Guide'.

OPERATIONS TO BE PERFORMED

1. User Parameter Restoration

   . Retrieval of the PE backup in ASCII format: PEAS procedure.

   . Encryption of user passwords (these were decrypted before the transfer of PE
     file) by the CRYP procedure with 'CODE' parameter.

   . Restoration of the AE and AP files via the running of the LOAE procedure,
     which uses in input:

   - The backup (PE file) output from the CRYP procedure,

   - The AE0 file supplied for the installation,

   - The MBLOAE transaction file containing the NRREST command.

RESULT: The AE and AP files containing the source installation user
parameters which are operational on the new platform.

2. Database Restoration

   . Reorganization (REOR procedure) of the PC backup, output from the PC73
     or PC80 retrieval, or directly output from the file transfer.

   . Initialization of journal file (ARCH procedure) if the AJ file already exists in
     the 'JOURNAL' directory of the database to be installed.

   . Restoration of the database (REST procedure) using the PC backup output
     produced by the reorganization. Before executing the restoration, make sure
     that the input transaction (MBREST) is correct.

RESULT: The AR, AN and AJ files are operational on the new platform.

3. Restoration of generation-print requests

  . Sort of the PG backup in ASCII format: PGAS procedure (all releases of the
  source site).

  . Reorganization-restoration of generation-print requests (REAG) using the PG
  backup obtained in the previous step as input. Before executing this
  restoration, make sure that the input transaction (MBREAG) includes 'AG'.

      If libraries, sessions, and/or user codes have been deleted via the
      database reorganization, the corresponding transactions must be
      entered for the reorganization of the AG file. Obsolete generation-print
      requests related to deleted sessions or libraries will be purged.

RESULT: The AG file is operational on the new platform.

4. PEI: Production Environment Restoration

  . Retrieval of PP backup in the ASCII format: PPAS.

  . Restoration of the production environment (RSPE) using the PP backup
  obtained in the previous step as input.

RESULT: The AB and AC files are operational on the new platform.

5. Pactables: Restoration of Table Descriptions

Only the migration of the table descriptions file (TD) is explained here. Besides,
the retrieval of this file in the format of the new release may be performed on the
site where the Pactables function operates. The transferred PD backup file is
then already in the format of the new release:

  . Retrieval of PD backup in the ASCII format: TD80 procedure.

  . Restoration of table descriptions (RMTD) using the backup obtained in the
  previous step as input.

RESULT: The TD file is operational on the new platform.

9.5. CRYP - CODING-DECODING OF PASSWORDS

CRYP: INTRODUCTION

The CRYP procedure performs the encryption and decryption of user passwords in the PE user-parameter backup file.

The objective of this procedure is to transfer the PE file onto platforms with different codings.

EXECUTION CONDITION

Authorization level '4' for the update of user parameters (PARM).

9.5.1. CRYP - USER INPUT

                          <u>CRYP: USER INPUT</u>

A '*' line with the user code and the password must be entered.

The user code specified on the '*' line must exist in the PE file to be processed.

The procedure's specific user input allows for the selection of either Encryption
or Decryption.

```
---------------------------------------------------------
!Pos. ! Len. ! Value   ! Meaning                        !
!-----+------+--------+--------------------------------!
! 3   ! 6    ! 'CODE'  ! Password encryption            !
!     !      !'DECODE' ! Password decryption            !
---------------------------------------------------------
```


NOTE: When decrypting, the backup obtained must not be reloaded via the
'PARM' procedure. If it were, user passwords would no longer be recognized.

9.6. LVBL - CHANGE OF LOW-VALUE CHARACTERS INTO BLANKS

LVBL: INTRODUCTION

The LVBL procedure inserts a blank wherever a low-value is present in the PC Database backup file.

The purpose of this procedure is to transfer the PC file onto different platforms while avoiding problems due to the presence of low-values at the time of transfer.

UTILIZATION OPTION

The LVBL procedure allows you to keep only records of the 'data' type. See the 'Description of Steps' section (Sub-chapter dedicated to LVBL in the Administrator's Guide) for further details on the implementation of this option.

EXECUTION CONDITION

None

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