

VisualAge Pacbase



Installation Guide UNIX Server & Client Components

Version 3.0



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Note

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Chapter 1. Foreword

Introduction

The purpose of this manual is to guide the administrator through the installation of the VisualAge Pacbase:

- Server environment,
- Client environment,
- Communication.

Once the installation is completed, it is recommended to run the set of tests provided on the installation media.

You will also find in this manual a description of the operations to be performed for the installation of correction versions.

VisualAge Pacbase Architecture

VisualAge Pacbase is used for the design, development and maintenance of graphical (GUI), textual (TUI) or web eBusiness applications, run in on-line or batch mode.

VisualAge Pacbase consists of:

- A server environment (TUI),
- A client environment (GUI).

These two environments communicate through an encapsulated middleware provided by IBM.

NOTE: The textual mode remains available for some functionalities.

You will find a detailed description of Server Components in chapter 'The Components' in this manual.

THE SERVER ENVIRONMENT

It consists of the following components:

- the system elements: programs, files (on-line help included), and parameters,
- the administrator's Database that contains user parameters and other parameters,

- one or more development Database(s).

THE CLIENT ENVIRONMENT

It consists of the following components:

- Administrator workbench,
- Developer workbench which includes the Batch and eBusiness modules (these modules can be installed independently),
- VisualAge Pacbase WorkStation,
- eBusiness tools,
- Pacbase Web Connection.

The communication functions enable the Server and Client environments to communicate via the main communication protocols on the market.

Contents of Supply

The contents of the supply vary according to the terms of your order:

- Installation Guide,
- CD-Rom or cartridge, depending on the environment, to install VA Pac servers,
- Workstation Components CD-Rom,
- VisualAge Java CD-Rom,
- VA Pac documentation CD-Rom.

Bibliography

Refer to the Administrator's Procedures manual for information on the procedures used by the Administrator in the following contexts:

- Databases management,
- Versions management,
- Management utilities.

For information on the management of user parameters, (update of access keys, user codes and access authorizations), refer to the Administrator workbench online help.

For information on the communication between the Security System possibly installed on site and VisualAge Pacbase (authentication controls), refer to the 'Security System Interfaces' manual.

Chapter 2. Prerequisites

Prerequisites for Server Environment

Hardware and Software

- Architecture: A UNIX server and Windows

workstations.

- Memory: RAM memory (64 Mb). You may need additional memory according to the number of servers installed on the same machine.
- Software:
 - MERANT Microfocus Application Server.
- Installation support: CD-ROM driver.

Disk Space

The disk space occupied by files varies according to the size of the applications managed by the system.

The table here below indicates approximately (in million bytes) the disk space required by the installation of servers:

Size of installation	Total
Total for installation	170
Total for system	119
Total for installation tests user files	50
Total for installation tests administrator files	1

Prerequisites for Client Environment

Hardware

The hardware characteristics necessary to install VisualAge Pacbase client components are the following:

- Processor: Intel Pentium III 450 Mhz minimum or compatible processor.
- Monitor: graphic monitor (800x600) VGA or higher resolution (XGA or SVGA).
- CD-Rom drive.
- Card: adapted to the site network.
- Memory (RAM): 128 Mb (256 Mb advised).

- Software: Microsoft Windows Script Host (version 5.1 and onwards).

Disk Space

Required disk space:

- 58 Mb for the Administrator & Developer workbench.
- 15 Mb for the VisualAge Pacbase WorkStation.

Software

The VisualAge Pacbase client components require that a 32 bytes-Windows be installed on your workstation, i.e.:

- Windows 98,
- Windows/NT version 4.0 with Service Pack 3,
- Windows 2000.

See also chapter "Installation of Client Components", subchapter "Things to Know Before Installing".

Communication

To enable the communication between the workstation components and the servers in a UNIX environment, the communication protocol is TCP-IP Socket.

Chapter 3. Installation of Server Environment

Installation

General Overview

The product is supplied on a magnetic support (cartridges, DAT, VDAT) or on a CDROM which contains:

- PACINST.Vnn,
 - PACBASE.xxx
- ("Vnn" represents the number of the installed version).
("xxx" represents the COBOL run_time version).

WARNING: depending on the support and the UNIX system, the names of the installation files might be in upper case letters or in lower case letters.

Description of PACINST.Vnn :

The PACINST.Vnn file contains the VA Pac installation or re-installation commands.

These commands are written in shell language.

Description of PACBASE.xxx:

The PACBASE.xxx files are compressed tar files which contain the Va Pac execution and operations files.

When installing or re-installing, you can choose the run-time and then install files which are compatible with the run-time in use.

Installation Process

It is recommended to make a backup of the system before starting the installation of VA Pac and to follow meticulously the different steps of the installation.

- Update of the '/etc/services' file,
- Creation of a specific login to the software,
- Creation or modification of the environment variables,
- When VA Pac is delivered on a magnetic medium, unloading of the medium's content in the '\$HOME' connection directory,

- When Va Pac is delivered on a CDRom, unloading of the CDRom's content in the 'version_code'.hardware_code' subdirectory of the installation directory,
- installation of the system,
- installation of the Administration Database,
- installation of the Development Database,

WARNING: VA Pac must be installed on disks physically present on the UNIX computers and not on NFS-mounted disks.

The COBOL Microfocus run-time is required for the VA Pac to operate properly. It must be installed before the installation of VisualAge Pacbase.

Installation of System Environment

Update of the "/etc/services" File

The use of the "socket" communication interface for the communication between the server and the clients requires the reservation of a communication port number in the UNIX "/etc/services" file.

This file must be updated BEFORE the installation of the development databases. Since this installation can follow the system installation, this file must be updated BEFORE the system installation.

A communication port number must be associated with each database. Communication ports cannot be chosen at random.

Some ports are reserved for standard 'internet' applications or for later applications. Other ports are allocated in a dynamic way.

So you must choose a port number which is not used in "/etc/services" and which is not being used, i.e. dynamically allocated.

Example:

A port number must be chosen for each on-line server. Let us suppose that we have chosen number 7030.

- The port number 7030/tcp must not be in the "/etc/services" file ;

- The port number must not be currently used. You can make sure of that via the following UNIX command:

```
netstat -a | grep 7030
```


- if both these conditions are met, the UNIX (root) administrator must update the "/etc/services" file using the following line:

```
paclanx 7030/tcp
```

The port number chosen for each on-line server must be carefully noted because it will be needed when creating development databases.

Creation of a Specific UNIX User

Most software running on UNIX must be installed in a specific user's account. This is necessary for security reasons, in order to isolate the various software programs installed on one machine.

NEVER INSTALL UNDER THE "ROOT" UNIX ACCOUNT!

The UNIX administrator (root) must therefore create a UNIX login under which VA Pac will be installed.

This login will be the VA Pac administrator's.

Modification of the Configuration Files

Log in with the VA Pac administrator login, and update the shell configuration files (.profile, .kshrc or .login).

The environment variables COBDIR, PACDIR, COBPATH, and PATH will be created or modified:

```
COBDIR=<path to COBOL Run-Time directory>
export COBDIR
PACDIR="$HOME/paclanx"
export PACDIR
COBPATH="$PACDIR/system/gnt"
export COBPATH
PATH="$PACDIR/system/bin:$PACDIR/system/proc
      :$COBDIR/bin:$PATH"
export PATH
```

If the TMPDIR variable (temporary directory of the Cobol Run-Time) is assigned, the indicated directory must exist.

For COMPAQ/TRUE64 (DIGITAL), SUN, HPUNIX or LINUX version, create or modify the LD_LIBRARY_PATH variable:

```
LD_LIBRARY_PATH=/usr/lib:$COBDIR/coblib
export LD_LIBRARY_PATH
```

If you use Server Express, LD_LIBRARY_PATH must contain

```
LD_LIBRARY_PATH=/usr/lib:$COBDIR/lib
```

For the AIX version, you must use the LIBPATH variable instead of
LD_LIBRARY_PATH.

The COBOL Run-time corresponds to the directory which contains the executable files and libraries required to execute COBOL programs.

Generally, COBDIR can take the following values: /usr/lib/cobol, /usr/lpp/cobol or /opt/cobol. (For further details on the COBDIR environment variable, refer to the installation documentation of your COBOL compiler and to your COBOL manuals.)

Once you have performed these updates, restart the configuration initialization by typing ".profile", and, using the UNIX command "set", check that the modifications were taken into account in the configuration files.

If the environment variables are not correctly initialized, log out and then log in again, in the VisualAge Pacbase administrator's account.

Code page definition

The Repository code page is an IBM-923 code page equivalent to the ISO8859-1 code page which supports the Euro character (ISO8859-15).

POSITIONING THE "LANG" CODE FOR THE UNIX USER

In order to visualize properly the reports which contain national characters, the user must define a code page compatible with the VA Pac Repository code page.

Refer to the documentation related to the UNIX system to define a code page compatible with the ISO8859-1 or ISO8859-15 code page.

As a general rule, the positioning of the "LANG" variable alone is sufficient to define the code page to be used.

Example : for the support of French national characters, you set:

- on AIX, SOLARIS, OSF1 :
export LANG=fr_FR.ISO8859-1
- on HP-UX :
export LANG=fr_FR.iso8859-1

POSITIONING THE "HOST-ENCODING" PARAMETER

WARNING :: The "Vaplocat.ini" parameters file defined and described in Chapter 'Installation/Re-installation of Client Components',

section 'Editing Communication parameters' must contain the following parameter to access the UNIX Repository :
HOST_ENCODING=923

Installing from the Magnetic Support

When VA Pac is delivered on a magnetic support, you must unload its contents into the UNIX machine, in the VA Pac administrator's \$HOME directory:

To do so, use the following commands:

```
cd $HOME
tar xvf /dev/...
```

("/dev/..." is the path of the support driver)

Installing from a CDROM

If necessary, mount the CDROM driver on a system directory.

Description of the Installation Procedure Steps

To ensure a correct installation of the software, check that the disk space is equal to five times the size of the PACBASE.xxx file in the installation directory.

After unloading in the VA Pac administrator's login directory, or the CDROM mounting, go to the following directory:

```
PB300"hardware_code"."version_code"
```

which is located in \$HOME or in the CDROM mounting directory.

Example on AIX:

```
cd $HOME/PB300AIX.V01 or cd $CDROM/PB300AIX.V01
```

and type the following command:

```
"sh pacinst*" or "sh PACINST*"
```

followed by a carriage-return (Enter or Return key).

The installation is made up of the following steps:

- Consistency check on the environment variables,
- Display of the installation menu
- Selection of the COBOL run-time in use (if necessary)
- Selection of the generation language code
- Creation of the installation directory
- Distribution of files coming from PACBASE.xxx

- Creation of the journal_pacinstall file
- Creation of the Administration database
- Creation of the standard test database(BVAP).

CONSISTENCY CHECK OF ENVIRONMENT VARIABLES

Before running PACINST.Vnn, the VA Pac Administrator must check the modifications done in the configuration file, even though the installation process performs some consistency checks.

DISPLAY OF THE INSTALLATION MENU

The installation menu looks like this:

```
*****
                          VisualAge Pacbase
*****
inst           :  installation of this version
*****

Please enter the command name or 'x' to exit from
PACINST.Vnn.
```

description of commands:

- The 'inst' command starts the installation process.

Enter the command and follow the instructions given by PACINST.Vnn.

CHOICE OF THE COBOL RUN-TIME IN USE

Ask your UNIX Administrator to know which run-time is used.

SELECTION OF THE GENERATION LANGUAGE

The generation language code is 'E' for English or 'F' for French.

CREATION OF THE INSTALLATION DIRECTORY

PACINST.Vnn requires the installation directory to be named paclanx in order to:

- isolate VA Pac from the other applications and so control its evolution more easily,
- allow PACINST.Vnn to control the type of processing (installation or re-installation) to be done.

DISTRIBUTION OF FILES:

During this step, PACINST.Vnn creates the directories described further on in this manual (paragraph "Description of created Directories") and extracts all the PACBASE.xxx files.

UPDATE OF THE JOURNAL_PACINSTALL FILE:

The journal_pacinstall file contains information resulting from the use of PACINST.Vnn. During the installation process, this information is:

- the installation date,
- the release number,
- the version number,
- the generation language code.

Installation of the Specifications Database

Administration Database

This step creates the administration database which controls the user databases. Only one administration database can be installed. Its code is "ADMI".

The administration database must be installed right after the system installation, or later with the 'pacadmin' procedure located in the directory:

\$PACDIR/system/install.

This installation is constituted of the following steps:

DISPLAY OF THE INSTALLATION MENU

The installation menu looks like this:

```
*****
                          *****
                          VisualAge Pacbase
                          *****
creadmin      :  creation of the administration database
*****
Type the command name or 'x' to quit pacadmin :
```

Description of commands:

- The 'creadmin' command starts up the installation process.

Enter the command and follow the instructions given by pacadmin.

CREATION OF THE DATABASE SUBDIRECTORIES

- \$PACDIR/data/ADMI/base
- \$PACDIR/data/ADMI/input
- \$PACDIR/data/ADMI/journal
- \$PACDIR/data/ADMI/save
- \$PACDIR/data/ADMI/tmp
- \$PACDIR/data/ADMI/users
- \$PACDIR/config/ADMI

INPUT OF THE VA PAC ACCESS KEY

To facilitate the key input, the installation procedure displays a grid which enables you to visually control the key length. The key is 70 characters long.

EXECUTION OF THE INITIALIZATION BATCH PROCEDURES

- INGU : initialization of GU file,
- REST : database restoration,
- VINS : initialization of the Metamodel.

UPDATE OF THE JOURNAL_PACINSTALL FILE

Addition, in the journal_pacinstall file, of the information related to the database creation:

- Database name and creation date.

Development Database

Before being installed, a Development Database must be first declared in the Administration Database.

You do so via the Administrator workbench. (refer to chapter 'Installation of Client Components', subchapter 'Administrator & Developer workbench').

NOTE: The BVAP test Database, which is delivered at installation, is already declared in the Administration Database.

This step installs the files used by the developer to create and maintain entities in the Dictionary. More than one development database can be installed ; each has its own environment.

A development database can be installed right after the system installation, or later, with the "pacadmin" procedure which is located in the directory:

\$PACDIR/system/install.

This installation is constituted of the following steps:

DISPLAY OF THE INSTALLATION MENU

The installation menu looks like this:

```
*****
                          VisualAge Pacbase
*****
  crebase      :  creation of a new database
*****
Type the command name or 'x' to quit pacadmin :
pacadmin :
```

Description of commands:

- The 'crebase' command starts up the installation process.

Enter the command and follow the instructions given by pacadmin.

INPUT OF THE DATABASE CODE (EXCEPT FOR THE TEST DATABASE)

Enter the database code on 4 alphanumeric uppercase characters.

This code must have been declared in the administration database.

When installing the first database (test database), the database code is always BVAP.

SELECTION OF THE DATABASE LANGUAGE CODE

This code can be:

de (German)

en (English)

es (Spanish)

fr (French)

po (Portuguese/Brazilian).

INPUT OF THE SOCKET NUMBER ALLOCATED TO THE LISTENER

The socket number is a 4-digit number between 1025 and 9999.

It must be declared in the /etc/services file. (see paragraph 'Update of the "/etc/services" File').

CREATION OF THE DATABASE SUBDIRECTORIES

- \$PACDIR/data/BVAP/base
- \$PACDIR/data/BVAP/input
- \$PACDIR/data/BVAP/journal
- \$PACDIR/data/BVAP/save
- \$PACDIR/data/BVAP/tmp
- \$PACDIR/data/BVAP/users
- \$PACDIR/config/BVAP

EXECUTION OF THE INITIALIZATION BATCH PROCEDURES

- REST : loading of the test database,
- VINS : initialization of the metamodel,
- LDHE : initialization of HE file,
- LDZS : initialization of ZS file,
- LDGS : initialization of GS file,
- INFQ : initialization of FQ file,
- INFP : initialization of FP file.

UPDATE OF THE JOURNAL_PACINSTALL FILE

Addition, in the journal_pacinstall file, of the information related to the database creation:

- Database name and creation date.

Chapter 4. Installation/Re-installation of Client Components

Things to Know Before Installing

- To install the VisualAge Pacbase Client components on a Windows workstation, you must have an Administrator profile.
- VA Pac Client components are installed via InstallShield for Windows Installer (ISWi).
If Windows Installer is not installed on the workstation, it will be installed automatically.
- You also need Microsoft Windows Script, version 5.1 or higher. You can download it from the following URL:
`www.microsoft.com/msdownload/vbscript/scripting.asp`
- Both Administrator & Developer workbench and eBusiness Tools components require, for their online help, that Netscape or Internet Explorer 5.5 be installed.
- The installation of a Client component does not require the prior installation on the server of the VA Pac Database(s) to which it will connect. However, the code of each VA Pac Database you indicate when you install a Client Component will have to be strictly reused when these Databases are installed at the server level.

Root Directory

By default, the root directory of all the VisualAge Pacbase Client components is:

```
C:\Program Files\IBM\VisualAgePacbase
```

The directories located under this root can be modified only once, at the beginning, i.e. when the first component is installed.

NOTE: Do not use blank characters in directory names.

The other components will necessarily be installed under this root directory (whether it has been modified or not).

However, for the installation of a later version of a component the installer will propose:

- either a refresh under the initial root directory,
- or a new root, which cannot be modified, built from the previous root. The name of its last directory will be numerically incremented.

For example if you did not modify the default root upon the initial installation, the root of the first re-installation will be:

```
C:\Program Files\IBM\VisualAgePacbase_1
```

And the root of the second re-installation will be:

```
C:\Program Files\IBM\VisualAgePacbase_2
```

Installation Startup

Insert the installation CD.

The execution of setup.exe launches the graphical interface of Wizard InstallShield which will guide you through the installation.

The first panel displays the text of the Java runtime licence. You agree with the terms of the licence ; the next panel then asks for your identification (Name and Organization).

NOTE: All the VisualAge Pacbase Client components are installed in a shared use mode on the workstation.

Then the list of the VisualAge Pacbase Client components is displayed.

Choose the Client component you want to install.

The continuation of the installation is described in sub-chapters dedicated to each component.

Fundamentals of VA Pac Client-Server Communication

This section presents the principles of communication between the Client components and the VisualAge Pacbase server.

The following pages contain important information essential to the choice of communication protocol and the parameterization of the associated middleware.

This information will also be useful for future installations (other Client components or new versions of already installed components).

AVAILABLE COMMUNICATION TYPES

- If the VisualAge Pacbase server runs on Windows or UNIX, the VAP Socket protocol must be used.
- If it runs on MVS/CICS, you can either use the MVS CICS Socket or the MVS CICS CPI-C, depending on which protocol is used at the server level (see the Installation of Server Environment chapter).

- If it runs on MVS/IMS, you can either use the MVS IMS Connect Socket or the MVS IMS CPI-C, depending on which protocol is used at the server level (see the Installation of Server Environment chapter).

THE MIDDLEWARE

The middleware must always be installed on each Developer workstation. This installation starts automatically during the first installation under a given root of one of the following Client components: Administrator and Developer workbench, VisualAge Pacbase Workstation, eBusiness Tools and Pacbase Web Connection. For the latter, this installation is automatically launched if the Context Server option is selected.

The middleware installed on each Developer workstation then ensures direct communication between the Client component(s) and the Server.

However you can also choose a communication via a gateway.

This gateway performs a centralized and optimized management of server access.

In this context, you must also install the middleware on an intermediate server by selecting the Middleware item in the list of Client components (see corresponding subchapter).

Client components then communicate via a gateway (the VisualAge Pacbase Gateway) which runs on this intermediate server.

This option is not available with the Pacbase Web Connection component.

COMMUNICATION FILES

For the Administrator & Developer workbench and the VisualAge Pacbase WorkStation, the parameterization of the communication is made in two files: the bases.ini and vaplocat.ini. files.

The vaplocat.ini file is also used by the eBusiness Tools component.

These files are automatically created and are located in a directory named 'common'.

A reinstallation does not affect the bases.ini and vaplocat.ini files. A base_new.ini file is created only as a reference. It contains the most recent version of this file.

IMPORTANT: To add/delete VisualAge Pacbase Databases, or modify parameters related to the communication, you will have to modify these files.

For details on how data is structured within both files, see the end of this chapter (Updating communication parameters).

THE VAPLOCAT.INI FILE

- When communication is direct, the vaplocat.ini file used is located on each Developer workstation.
- When communication is via a gateway, the vaplocat.ini file used is located on the intermediate server.

In both cases this file is located in the 'common' sub-directory of the installation root directory.

The location(s) is(are) described in this file.

A location :

- identifies the protocol used to access the VisualAge Pacbase server,
- gives the physical addresses of the server for this protocol,
- defines the communication parameters required for the operation of this protocol.

THE BASES.INI FILE

The bases.ini file is found on each Developer workstation, in the 'common' sub-directory of the installation root directory.

This file contains the list of accessible VisualAge Pacbase Databases. Each Database is associated with a location.

Several Databases can be associated with the same location. The locations are defined in the other file, the vaplocat.ini file.

Administrator & Developer workbench

If the JDK (Java Developer's Kit) is not installed on your workstation, its installation will automatically take place.

For this installation, as for that of the Administrator & Developer workbench, the root being used depends on the current installation context. For complete details, refer to this chapter's first page.

The installation script then asks you to select the one or more elements to install:

- Administrator workbench

WARNING: Installing the Administrator workbench on at least one workstation is REQUIRED as it will allow for the creation of the site's VA Pac Database(s), Libraries, Profiles, users, etc.

- Developer workbench

Developer workbench includes the following modules:

- Batch module,
- eBusiness module and three eBusiness tools:
 - Proxy Generator,
 - Location Editor,
 - Services Test Facility.

NOTE: These tools are installed following the installation of the rest of the eBusiness module.

- Rational Rose Bridge.

In the next panel, you indicate the communication mode (direct communication or gateway).

NOTE: IMPORTANT information on communication issues are given at the beginning of this chapter.

This panel does not appear if you have already installed Administrator & Developer workbench or the VA Pac WorkStation under the same root.

- If you choose the direct communication option, the middleware installation script will automatically start once the installation of the workbench is finished. It will ask you to specify a number of communication parameters. For complete details on this part of the installation, refer to the Middleware subchapter.
- If you choose the gateway option, enter the IP address of the gateway here. The installation of the middleware on the Developer workstation - also necessary in this context - will then start automatically after the installation of the workbench.

NOTE: You will also have to install the middleware and configure the communication on the intermediate server which hosts the gateway.

Next, in this same initial context, enter the (first) Database which the Administrator and Developer workbench will access.

To do this, a window enables you to enter:

1. The name of a Database, already installed at the server level or not. The names entered here will be displayed in the connection smartguide, thus showing users which Databases they can connect to. The name given to each Database should therefore be clear enough to be easily identified in the list of Databases proposed by the connection smartguide.
2. The Database logical code.
Maximum length: 4 characters.
If the Database is not installed yet at the server level, please keep this code in mind: it will have to be used again upon this installation. The codes entered here will also be displayed in the connection smartguide.

NOTE: The Database specifically dedicated to the site administration is automatically created. Its logical code is the '****' reserved code.

3. The location name
Maximum length: 20 characters.
Default: Location-1
More than one Database may be associated with one location.
4. Finally, specify the user authentication mode at connection. Refer to the Database Administrator to ensure authentication measures at the server level are imposed at the workbench level. You select the mode via two check boxes.
VAPac: The user will have to enter his/her code and password to connect to the VA Pac Database.
Middleware: The user will have to enter his/her code and password to connect to the host system (in the two fields displayed under "Middleware references" in the connection smartguide).
If only the Middleware box is selected, VA Pac authentication is performed by the security system.
If both boxes are selected, the user will have to enter his/her code and password to connect to the host system and to the Database.
In this way, you have defined the access to a first VA Pac Database. The installation script then allows you to define communication and connection to as many other Databases as necessary.
The actual installation can then start ; press the [Install] button.

NOTE: This installation is followed by the installation of the eBusiness tools (if not already installed under the same root) and -- in the initial context defined above -- of the Middleware.

START-UP FILES

The start-up files are :

- wb_admin.bat
- wb_batch.bat
- wb_eBusiness.bat
- wb_cfm.bat

These files are to be found in the root directory of the Administrator and Developer workbench (adworkbench).

The cfm module is a utility that allows you to inhibit the display of selected browsers unused by your site's teams and/or to provide for the display of browsers specific to Meta-Entities defined at your site. Consult the VisualAge Support team for more information.

START MENU / PROGRAMS CHOICE

Once the installation is complete, the Windows desktop includes the VisualAge Pacbase Components section in the Start Menu/Programs choice, with the following sub-sections:

Administrator-Developer workbench

- Administration
- Batch
- eBusiness
- cfm

Open Jade and Tidy / Publishing facility

The Publishing facility requires the installation of the Open Jade and Tidy open source utilities.

You can download them from the VA Pac Support web page at:

<http://www.ibm.com/software/ad/vapacbase/support.htm>

In the "Support downloads" box, click the "VisualAge Pacbase downloads" link. In the new page, select the Open Jade and Tidy" download.

You obtain a zipped file called Adwb_util_3.0.exe that you unzip in the installation root directory, by default:

C:\Program Files\IBM\VisualAgePacbase

eBusiness Tools

The eBusiness Tools are:

- Proxy Generator
- Location Editor
- Services Test Facility

- VisualAge Pacbase Connector

This installation allows the eBusiness Tools to be used independently of Developer workbench, without a connection to the VisualAge Pacbase server. eBusiness tools are installed as VisualAge for Java features and tools. The specificity of VisualAge Pacbase Connector is to run in VisualAge for Java only.

If the JDK (Java Developer's Kit) is not installed on your workstation, its installation will automatically take place. For this installation, as for that of the eBusiness Tools, the root being used depends on the current installation context. For complete details, refer to this chapter's first page.

To start the installation, click on the [INSTALL] button.

The Middleware component is automatically installed following the installation of the eBusiness Tools if it does not already exist under the root of the current installation. You will then have to specify some communication parameters.

For information on this part of the installation, see the Middleware subchapter.

The eBusiness Tools component can run via a gateway. In this case you will have to install the Middleware component and configure the communication at the level of the intermediate server which hosts the VisualAge Pacbase gateway.

NOTE: IMPORTANT information on communication issues is given at the beginning of this chapter.

The middleware installed in this context allows communication between the server and the generated proxies.

Communication parameters will have to be set by the developer with the Location Editor tool included in this installation.

START-UP FILES

The start-up files are :

- For the Proxy Generator:
 - vapgen.exe
- For the Location Editor:
 - vapLocationEditor.exe
- For the Services Test Facility:

- vapServicesTestFacility.exe

These files are to be found in the following sub-directory:

ebusinesstools\bin

NOTE: VisualAge Pacbase Connector runs only as a tool in VisualAge Java.

START MENU / PROGRAMS CHOICE

Once the installation is over, the Windows desktop includes the VisualAge Pacbase Components section in its Start Menu/Programs choice, with the following sub-sections:

eBusinessTools
 Location Editor
 Proxy Generator
 Services test Facility

VisualAge Pacbase WorkStation

The root used for this installation depends on this installation's context. For complete details, refer to this chapter's first page.

The first panel invites you to select the language option of the VisualAge Pacbase WorkStation interface. The default language option is English.

In the following panel, you select the methodology to be implemented by the WorkStation.

NOTE: If you wish to install another methodology, you will have to repeat this installation process one more time.

If displayed, the "Local Install" option must be selected.

NOTE: The "sub-features" option is identical to the "feature" option.

In the next panel, select the elements to install:

- One or both of the following modules:
 - Pacdesign,
 - Pacbench.
- The connection mode:
 - The connected mode where a connection to the VisualAge Pacbase Repository is systematically performed.
 - The open connection option where the user has to choose between the connected or the local mode.

In the next panel, you indicate the communication mode (direct communication or communication via a gateway).

NOTE: IMPORTANT information on communication issues are given at the beginning of this chapter.

This panel does not appear if you have already installed Administrator & Developer workbench or the VA Pac WorkStation under the same root.

- If you choose the direct communication option, the middleware installation script will automatically start once the installation of the workstation is finished. It will require the configuration of communication parameters. For information on this part the installation, see the subchapter Middleware.
- If you choose the gateway option, enter the IP address of the gateway here. The installation of the middleware on the Developer workstation - also necessary in this context - will then start automatically after the installation of the WorkStation.

NOTE: You will also have to install the middleware and configure the communication on the intermediate server which hosts the gateway.

Next, in this same initial context, indicate the first Database which the VisualAge Pacbase WorkStation will access.

To do this, a panel enables you to enter:

1. The name of a Database, already installed at the server level or not.

The names entered here will be displayed in the connection smartguide, thus showing users which Databases they can connect to.

The name given to each Database should therefore be clear enough to be easily identified in the list of Databases proposed by the connection smartguide.

NOTE: If you use a customized file for the parameters, enter, after the Database name, the name of this file, framed by the "<" and ">" signs.

Complete details on these parameters are given at the end of this subchapter.

2. The Database logical code.

Maximum length: 4 characters.

If the Database is not installed yet at the server level, please keep this code in mind: it will have to be used again upon this installation. The codes entered here will also be displayed in the connection smartguide.

The Database specifically dedicated to the site administration is automatically created. Its logical code is the '****' reserved code.

NOTE: A logical code must be unique for a given location (see next item 3.)

3. The location name

Maximum length: 20 characters.

Default: Location-1

More than one Database may be associated with one location.

4. Finally, specify the user authentication mode at connection. Refer to the Database Administrator to ensure authentication measures at the server level are imposed at the WorkStation level.

You select the mode via two check boxes.

VAPac : indicates that the user will have to enter his/her code and password to connect to the VisualAge Pacbase Database.

Middleware : indicates that the user will have to enter his/her code and password in the Middleware identification box to connect to the host system. If only the Middleware box is selected, VA Pac authentication is performed by the security system.

If you check both boxes, the user will have to enter his/her code and password to connect to the host system and to the Database.

In this way, you have defined the access to a first VA Pac Database. The installation script then allows you to define communication and connection to as many other Databases as necessary.

The actual installation can then start ; press the [Install] button.

NOTE: This installation -- in the particular context defined below -- is automatically followed by the middleware installation.

START-UP FILE

The start-up file is :

pexec.exe

This file is to be found in the VisualAge Pacbase WorkStation root directory (SPAC).

START MENU / PROGRAMS CHOICE

Once the installation is completed, your Windows desktop includes the VisualAge Pacbase Components section in its Menu Start/Programs choice, with the following sub-sections:

WorkStation

```
WorkStation  
WorkStation News  
<methodology> News
```

INSTALLATION PARAMETERS FILE

A number of the installation parameters of the VA Pac WorkStation are located in the Pacbase.dat file.

The WorkStation installation procedure automatically creates this file in the \SPAC\NNNL directory where "NNN" indicates the version and "L" the language code of the version installed.

The Pacbase.dat file, which necessarily conforms to the most recent installation, is therefore used by default when the WorkStation is started up.

However you can create one or more parameter files. This can be useful if more than one methodology is installed on a workstation, which is rather rare. It will then be easier to change the methodology when reconnecting.

The choice of file name is open but must conform to DOS file standard. The .dat extension is recommended.

These DOS files should resemble the Pacbase.dat file and should be stored in the same directory as this file.

When the VA PAC WorkStation is reinstalled, the *.dat files you created will not be deleted.

DESCRIPTION OF THE PARAMETERS FILE

Each of the lines in this file has the following structure:

- a three-digit identifier in positions 1 to 3
- the parameter label, whose position is unfixed
- the parameter value, between brackets ([and]), whose position is also unfixed

The following is an example of a PACBASE.DAT file:

```
001 Station Version           [300F]  
002 Server                   [PACBASE]  
003 Communication Manager    [MWC0M]  
004 Communication Parameters [MWC0M]  
005 System                   [WINDOWS]  
006 Method                   [MER]
```

007 EXE disk [C]
 008 EXE disk(default) [C]
 009 System Data Disk [C]
 010 User Data Disk [C]
 011 Connection execution mode [E]

The Pacbase.dat file should not be destroyed.

The possible values for the Methodology parameter are:

Parameter value	Methodology name
MER	MERISE
DON	YSM
FAA	IFW
ADM	SSADM (in English only)
OMT	OMT

WARNING: The parameters 001 to 005 and 011 cannot be modified.

Pacbase Web Connection

INSTALLATION PREREQUISITE

For Pacbase Web Connection, you need to install a PERL interpreter (version 5.0 minimum) that you can download from the following URL:

<http://www.perl.com>

To install the interpreter, follow the indications given below.

INSTALLATION

The choice of the installation root for Pacbase Web Connection depends on the installation context. For more details, consult the first page of this chapter.

Then, you install the context server or Pacbase Web Generator or both.

You can install the server context and the generator on two different workstations or on the same developer workstation from where the html pages will be generated.

Furthermore, the PERL interpreter must be installed on the workstation that will be used to launch the HTTP server. The PERL installer will handle the script that sets up the connection between the HTTP server and the context server.

NOTE: The HTTP server and the context server can be installed on different workstations.

The installer asks you to enter the name of the directory where the PERL interpreter is installed.

If PERL is not installed yet, the installer creates the corresponding directory, called Pacwebperl. A BIN sub-directory necessarily contains the cgicgi.pl and cgi-lib.pl files.

NOTE: The actual installation can now start ; press the [Install] button.

The installation of the Context Server is automatically followed by the installation of the Middleware component except if it is already installed under the root of the current installation. When installing the Middleware component, you must specify certain communication parameters.

For information on this part of the installation, see sub-chapter Middleware.

NOTE: IMPORTANT information concerning communication is given at the beginning of the chapter.

EXECUTION FILE

The Pacbase Web Connection execution file is:

Pacweb.exe

This file is located in the PacWeb directory under the root where Pacbase Web Connection is installed.

INSTALLATION OF THE CONTEXT SERVER AS AN NT SERVICE

The context server can be installed under Windows/NT as an NT service. In this case, the context server starts automatically or can be started via the dialog box which is used for all services.

To install the context server as a service, enter the following command from the context server installation directory:

```
pacweb -i [<socket nb>]
```

The socket number is optional. The default value is 2345.

At installation time, the context server is not started up automatically ; it must be done by pressing the start button in the services dialog box.

When the computer boots up, it is automatically executed.

To uninstall the service, enter the following command:

```
pacweb -d [<socket nb>]
```

These commands used to install or uninstall services can be executed only by a user who is authorized to open a session as a service.

Middleware

The specific installation of the Middleware component on a dedicated machine (intermediate server) is necessary only when a communication via a gateway is used.

In fact, the Middleware component is automatically installed, immediately after the first installation (under a given root) of one of the other Client components.

NOTE: For the Pacbase Web Connection component, the installation of the Context Server sub-component starts the installation of the Middleware.

The root used for an installation depends on the context of that installation. For more information, see the first page of this chapter.

To use the Administrator and Developer workbench or the VA Pac WorkStation, the location parameters of your VisualAge Pacbase Databases must always be specified.

NOTE: IMPORTANT information related to the communication is given in the beginning of this chapter.

- If communication is provided via the VisualAge Pacbase Gateway, installation of the Middleware on this intermediate server requires the definition of the location necessary for the first VA Pac Database.

NOTE: In the New location field, enter a name for each location.

WARNING: If there is more than one location to define, either for the same Database or to manage more than one Database, you must define these extra locations directly in the vaplocat.ini file.

For more information on updating this file, see subchapter 'Complementary Information', section 'Updating Communication Parameters'.

- If communication is direct, the locations are automatically displayed, as they have been predefined in the first phase of the Administrator & Developer workbench or the VA Pac WorkStation installation.

Next, whatever the Client component concerned, you have to specify a certain number of different parameters, depending on the protocol used.

- If communication is via the VisualAge Pacbase gateway, these parameters will be requested during the installation of the Middleware on this intermediate server.
- If communication is direct, these parameters will be requested during the automatic installation of the Middleware.

LIST OF PARAMETERS

- VAP SOCKET

IP address: IP address and port used by the VA Pac server

- MVS CICS SOCKET

IP address: IP address and port used by the VA Pac server

Transaction code: Code of the CICS transaction of the VA Pac Communication Monitor.

Code Page: Value identifying the coding of characters used by the VA Pac server. 1140 (US EBCDIC) or 1146 (UK EBCDIC)

- MVS CICS/IMS CPI-C

Destination-id entry: BVPSCPI (default value). If you modify this value, it must be the same as the value entered in the Symbolic destination name, a parameter included in the configuration of this communication protocol.

Protocol code page: Value identifying the coding of characters used by the VA Pac server. 1140 (US EBCDIC) or 1146 (UK EBCDIC)

- MVS IMS Connect

IP address: IP address and port used by the VA Pac server.

Transaction code : IMS transaction code of the VA Pac Communications Monitor.

Data Store : Name of the link to IMS defined in IMS Connect (IMS Data Store ID)

RACF group : Name of the RACF group for IMS Connect.

You can now start the installation; press the [Install] button.

Editing Communication Parameters

The bases.ini File

You will need to update the bases.ini file to add or delete a Database, or to modify communication parameters.

By default this file's access path is:

C:\Program Files\IBM\VisualAgePacbase\Common\

NOTE: All the parameters which may be present in the bases.ini file are not explained here. In fact, a number of these parameters allow finer middleware settings, particularly used by proxies (generated by the eBusiness Tools). These parameters are used separately from the bases.ini file and are documented in the Proxy Programming Interface manual.

This file's format meets the standards of Windows .ini files.

Each section in the bases.ini file defines a configuration allowing access to one VisualAge Pacbase Database. Each section's name must be framed by brackets [Section Name].

The name of each section will be presented to the user in the connection smartguide. In the displayed list of VA Pac Databases, the user picks the Database he/she wants to connect to. This is why section names need be very explicit. All the more so since you can manage several communication options for one VA Pac Database. To do so, define as many configurations/sections as needed for one Database, clearly differentiated from one another by their name.

NOTE: With the VA Pac WorkStation, you may use a personalized parameters file. To do so, enter -- after the VA Pac Database name -- this file's name framed by the "<" and ">" signs.

Complete details on these parameters are given above, at the end of the 'VisualAge Pacbase WorkStation' subchapter.

DESCRIPTION OF A SECTION'S CONTENTS

The parameters in each section are listed below. There one parameter per line:

- baseCode = code of the VisualAge Pacbase Database (required)
Maximum length: 4 characters

NOTE: Concerning the VA Pac WorkStation, this code must be unique in the bases.ini file for a given Location.

- signOn = indicator for the control of the user signon. This indicator is required and takes one of the three following values:
 - VAPac: indicates that the user will have to give his/her code and password only when he/she connects to the VisualAge Pacbase Database.
 - Middleware: indicates that the user will have to give his/her code and password only when he/she connects to the host. The connection to the VA Pac Database will be controlled by RACF (or equivalent).
 - VAPac Middleware: indicates that the user will have to give his/her code and password when he/she connects to the host and to the Database (default option).
- communicationAdapter = indicates the communication mode in use.
 - DIRECT: local middleware
 - GATEWAY: remote middleware (via the VisualAge Pacbase gateway)

The following parameters vary according to the chosen option.

PARAMETERS FOR DIRECT ADAPTER (LOCAL MIDDLEWARE)

- locationsFile = indicates the path and name of the file which contains the locations definitions.
Default: ..\common\vaplocat.ini

CAUTION: The default value of this parameter should not be modified.

- location = location name for the Database

Maximum length: 20 characters.

Default: Location-1

More than one Database can point to the same location.

REMINDER

A location identifies the communication protocol used to access the VisualAge Pacbase server and the physical address of this server for this protocol.

- traceFile = path and name of the file which will receive the trace of the middleware execution.
By default this file is automatically created (with timestamp) in the VapTrace sub-directory.
- traceLevel = trace level of the middleware execution. Its possible values are:
 - 0 : no trace
 - 1 : trace with errors (default)
 - 2 : standard trace, not detailed
 - 3 : trace for information

- 4 et + : trace for debug
- codePageFile = path and name of the file which contains the conversion table of the code pages.
Default: ..\middleware\CharConv.txt

PARAMETERS FOR GATEWAY ADAPTER (REMOTE MIDDLEWARE)

- host = name or IP address of the host where the VisualAge Pacbase gateway is installed.
Default: 127.0.0.1 for a local host
- port = value of the IP port where the gateway receives the client requests.
Default: 5647
- location = location name for the Database
Maximum length: 20 characters.
Default : Location-1
More than one Database can point to the same location.

REMINDER

A location identifies the communication protocol used to access the VisualAge Pacbase server and the physical address of this server for this protocol.

The vaplocat.ini File

You will have to update the vaplocat.ini file to add or delete a Database, or possibly modify other parameters described below.

By default, the path to this file is:

C:\Program Files\IBM\VisualAgePacbase\Common\

NOTE: All parameters in the vaplocat.ini file are not explained here. In fact, certain parameters allow finer middleware settings, particularly used by proxies (generated by eBusiness Tools). In this context, these parameters are edited with the Location Editor tool and are therefore documented in its online help.

To add a VisualAge Pacbase Database, create a line on which you enter the location name between "<" and ">".

The maximum length of this name is 20 characters.

According to the protocol selected, you will have to choose different parameters (one per line):

- VAP SOCKET

- ```

<LocationName>
COMM_TYPE=SOCKET
MONITOR=BVPSCPI
MESSAGE_LENGTH=31744
IXO_TIMEOUT=30
IXO_ADDRESS=127.0.0.1 3000

```
- MVS CICS SOCKET

```

<LocationName>
COMM_TYPE=TCPMVS
MONITOR=BVPSSOC
MESSAGE_LENGTH=31744
IXO_TIMEOUT=30
HOST_ENCODING=1140 (US) or 1146 (UK)
IXO_ADDRESS=127.0.0.1 3000
IXO_TRANSID=V303

```
  - MVS CICS/IMS CPI-C

```

<LocationName>
COMM_TYPE=CPIC
MONITOR=BVPSCPI
MESSAGE_LENGTH=8192
IXO_TIMEOUT=30
HOST_ENCODING=1147

```
  - IMS Connect

```

<NomLocalisation>
COMM_TYPE=TCPIMS
MONITOR=BVPSCPI
MESSAGE_LENGTH=31744
IXO_TIMEOUT=30
HOST_ENCODING=1147
IXO_ADDRESS=127.0.0.1 3000
IXO_TRANSID=P300CPI
IXO_DATASTORE=IMSC
IXO_RACFGROUP=FR42

```

## DETAILS ON THE PARAMETERS

The following list is organised according to the alphabetical order of the parameters.

- COMM\_TYPE:

This parameter identifies the communication protocol in use.

The possible values are:

SOCKET: VA Pac Server under Windows or UNIX, with the use of TCP/IP.

TCPMVS: VA Pac Server under MVS/CICS or MVS/IMS, with the use of a TCP/IP listener.

CPIC: VA Pac Server under MVS/CICS, with the use of the CPI-C protocol.

TCPIMS: VA Pac Server under MVS/CICS, with the use of the IMS Connect protocol.

- **IXO\_ADDRESS:**  
IP address and port used by the VA Pac Server. The port number must correspond to the one indicated at the server configuration.
- **IXO\_DATASTORE:**  
Name of link to IMS defined in IMS Connect (IMS DataStore ID)
- **IXO\_RACFGROUP:**  
Name of RACF group for IMS Connect.
- **IXO\_TIMEOUT:**  
Maximum time required for a workstation to receive an answer from the server before indicating any communication error.  
This parameter is indicated in seconds. Its default value is 30.
- **IXO\_TRANSID:**  
CICS transaction code
- **HOST\_ENCODING:**  
Identifies the encoding of the characters used by the VisualAge Pacbase server.  
1140 (US EBCDIC) or 1146 (UK EBCDIC)
- **MESSAGE\_LENGTH:**  
This parameter's value must be 31744.
- **MONITOR:**  
Communication monitor code for VisualAge Pacbase, which is BVPSCPI, or BVPSSOC for MVS CICS SOCKET.

---

## Uninstalling Client Components

To uninstall a Client component, use the Windows service "Add/Remove" Programs in the Configuration Panel.

You can also use the Installation CD and activate the "Remove" function.



---

## Chapter 5. Tests

---

### List of Utilities

The summary table below lists the management utilities of the Administration and Development Databases.

| Script | Description                                           |
|--------|-------------------------------------------------------|
| ARCH   | Archiving of the Administration Database journal      |
| PACS   | Saving of the Administration Database (SAVE)          |
| REOR   | Reorganization of the Administration Database         |
| REST   | Restoration of the Administration Database            |
|        |                                                       |
| ARCH   | Saving of the Development Database journal            |
| PACS   | Saving of the Development Database (SAVE)             |
| PACS   | Library management of the Development Database (MLIB) |
|        |                                                       |
| REOR   | Reorganisation of the Development Database            |
| REST   | Restoration of the Development Database               |
|        |                                                       |
| UPDT   | Batch update of the Development Database              |
| GPRT   | Generation print                                      |
| PACX   | Library extraction (EXLI)                             |
| PACX   | Journal extraction (EXPJ)                             |
| PACX   | Entities extraction (EXTR)                            |
| PACS   | sub-networks extraction (UXSR)                        |

---

### Installation Tests

The VA Pac Installation tests include the following operations:

- Generation-print on-line and batch update tests,
- Administration procedures tests,
- Extraction utility tests.

## Generation-Print, TP and Batch Update Tests

These tests consist of the following steps:

- On-line use tests:
  - Starting up the test database server.
  - Testing screen branching.
  - Executing some updates.
- Batch updating tests:
  - Executing the UPDT procedure.
- Test on generation and print of programs:
  - Executing the GPRT procedure.

## Administration Database Procedures Tests

You must first consult and perform a number of updates with the Administrator workbench.

You can then carry out the procedure tests, knowing that the Administration Database files must be closed to on-line access.

These tests include the following steps, to be executed in this order:

- Archiving of the journal created during the use tests: execute the ARCH procedure, which outputs a PJ(1) file.
- Backup of the Administration Database: execute the PACS procedure (SAVE option) which outputs a PC(1) file.
- Reorganization of the sequential backup, PC(1), of the Administration Database: execute the REOR procedure, which outputs a PC(2) file.
- Restoration of the Administration Database using the PJ(1) archived transaction file and the PC(2) Database backup file: execute the REST procedure.

The Administration Database server must be shut down while these tests are being carried out.

## Development Database Procedures Tests

You must first consult and perform a number of updates with the Developer workbench.

You can then carry out the procedure tests, knowing that the Development Database files must be closed to on-line access.

- Archiving of the journal created during the use tests: execute the ARCH procedure, which outputs a PJ(1) file.
- Direct backup of the Development Database: execute the PACS procedure (SAVE option), which outputs a PC(1) file.



You must first consult and perform a number of updates with the Developer workbench.

You can then carry on the procedure tests, knowing that the Development Database files must be closed to on-line access. Development Database: execute the PACS (mlib) procedure, which outputs a PC(2) file.

- Reorganization of the sequential backup, PC(2), of the Development Database: execute the REOR procedure, which outputs a PC(3) file.
- Restoration of the Development Database using the PJ(1) archived transaction file and the PC(3) Database backup file: execute the REST procedure.

The Development Database files must be closed to on-line use while these tests are being performed.

It is advised to briefly test on-line operations again, after restoring and re-opening the Development Database files to make sure that the application runs properly.

### **Extraction-Utility Tests**

The purpose of these tests is to execute the Database extraction procedures.

These tests include the following steps, to be executed in the following order:

- Extraction of a library as transactions: execute the PACX procedure (EXLI option).
- Extraction of entities from a library: execute the PACX procedure (EXTR option).
- Extraction of selected transactions and/or lists of transactions from the archived journal (PJ): execute the PACS procedure (EXPJ option).

To run these tests, the development files can be open in on-line mode.

Each of these jobs can be followed by a UPDT procedure to check the validity of these extracted transactions.



---

## Chapter 6. Re-installation of Server

---

### Re-installation

#### General Overview

You must re-install the system environment of VisualAge Pacbase server when you receive a new version with corrections of bugs or new developments.

Generally, only system files (error messages, generation skeletons...) and programs are affected by this version.

#### GENERAL COMMENTS

- The re-installation procedure does not create directories which are assumed to be identical to those created during the initial installation of the version.
- It does not copy the batch procedures (\$PACDIR/system/proc directory) so as not to delete possible adaptations to the site, except if the new version cannot run with the old procedures.
- It copies the new procedures into the '\$PACDIR/system/proc.version number' directory.

#### Description of the Re-Installation Procedure Steps

After downloading into the administrator's login directory, or mounting the CDROM, go to the following directory:

```
PB300"hardware_code"."version_code"
```

as in an installation operation (see sub-chapter 'VA Pac Installation'), and type the command:

```
"sh pacinst*" or "sh PACINST*"
```

followed by a carriage return (Enter or Return key).

#### DESCRIPTION OF STEPS

The steps of the re-installation procedure are as follows:

- consistency check on the environment variables (.profile, .kshrc or .login file),
- display of the re-installation menu,
- choice of COBOL run-time in use (if necessary),
- distribution of the files coming from PACBASE.xxx,
- update of the journal\_pacinstall file.

## CONSISTENCY CHECK OF THE ENVIRONMENT VARIABLES

See subchapter 'Installation'.

## DISPLAY OF THE RE-INSTALLATION MENU

The re-installation menu is displayed as follows:

```

 VisualAge Pacbase

reinst : version re-installation

Type the command name or 'x' to quit PACINST.Vnn :
```

## DESCRIPTION OF COMMANDS

- You perform an overall re-installation via the 'reinst' command.  
Enter the command and follow the instructions given by PACINST.Vnn.

## CHOICE OF COBOL RUN-TIME IN USE

See the subchapter 'Installation'.

## UPDATE OF THE JOURNAL\_PACINSTALL FILE

Adding to the journal\_pacinstall file information concerning the re-installation:

- re-installation date,
- release number,
- version number,

---

## Chapter 7. Retrieval

---

### Retrieval of VisualAge Pacbase 2.0 and 2.5

The files which come from the retrieval must be converted, if needed, to IBM-923 code page if they are not already in ISO8859 code page.

The 'bvptrans' utility supplied in a 3.0 environment enables to convert a file from one given code page to the the IBM-923 code page. If needed, this utility should be applied to the PC, PE, PJ, PP, PG files which come from the 2.5 version in order to be retrieved properly in the 3.0 version.

Examples :

PC file, which comes from a 2.5 version, to convert from a PC850 code page to the 932 code page of the 3.0 Repository:

```
bvptrans PC25 OLDPC 850 923
```

PC file, which comes from a 2.5 version, to convert from a HP standard code page to the 923 code page of the 3.0 Repository:

```
bvptrans PC25 OLDPC 1051 923
```

**Note:** OLDPC is the result of the conversion assigned in the BVPPC25 retrieval procedure.

### Operations to be Performed

The installation of the 3.0 release requires, in the one hand, the retrieval of the AG (generation-print commands file), AE AP (user parameters files) and AB AC (PEI files) files in the new Administration Database, and on the other hand, the retrieval of the old Development Database.

#### SCREEN BRANCHING:

It consists of six steps:

1) Backup of all the old files required. You must execute the following procedures in the old version.

- SAVE: backup of the Development Database (PC),
- PARM: backup of the user parameters (PE),
- SVAG: backup of the generation-print commands (PG)
- SVPE: backup of the PEI environment (PP).

## 2) Installation of the 3.0 Administration Database

To install the Administration Database, execute the installation process.

This step creates the AN, AR, AY, AJ and GU files.

You must execute the following procedures:

- creation of the Administration Database,
  - INGU: creation and initialization of GU user codes file,
  - REST: initialization of the Administration Database with installation data (enter the access key),
  - VINS: installation of the Administration Model (see the Appendix, at the end of the manual),
- re-organization of the Administration Database if an end-of-installation message requests it:
  - PACS (SAVE option): backup of the Administration Database,
  - REOR: re-organization of the Administration Database,
  - ARCH: initialization of the Administration Database journal file,
  - REST: restoration of the Administration Database.
- retrieval of the old Database data,
  - PE25: retrieval of user parameters from the PE file which was generated during step 1,
  - SAVE: backup of the Administration Database.

## 3) Retrieval of a Development Database.

This step can be executed only if the corresponding VA Pac Database is already installed, with the test data.

You must execute the following procedures:

- PC25: retrieval and re-organization of the old Development Database from the backup of the old Database which was created during step 1,
- REOR: re-organization of new Development Database,
- REST: restoration of the new Development Database from the backup obtained previously,
- VINS: installation of the new Database development Model (see the description at the end of the manual).

The execution of the following procedures is optional and it is sometimes required for a better optimisation.

- PACS (SAVE option): backup of the new Development Database,

- REOR: re-organization of new Development Database,
- REST: restoration of the Development Database from the backup file resulting from the preceding re-organization procedure.

Steps 4, 5 and 6 are optional.

4) Retrieval of generation-print commands.

It consists in executing the following procedures:

- PG20: if retrieval of 2.0 AG file,
- PG25: if retrieval of 2.5 AG file.

5) Retrieval of Pac/Transfer parameters (UV).

It consists in executing the following procedure:

- UV25: retrieval of the UV file data.

6) Retrieval of PEI files.

It consists in executing the following procedure:

- PP25: retrieval of the PP file data.

---

## Retrieval of User Parameters (PE25)

### PE25 - Introduction

#### PRINCIPLE

This procedure (PE25) retrieves the PE file resulting from the user parameters backup executed by the PARM procedure, to update the administration database.

#### EXECUTION CONDITIONS

The administration database files must be closed to on-line use.

#### PRINTED OUTPUT

This procedure prints a report which indicates the errors encountered.

#### RESULT

This procedure integrates the 2.0 or 2.5 user parameters in the administration database.

## PE25 - Input / Processing / Results

A '\*' line in which you indicate a user code and password.

An 'A' line in which you indicate the Administrator's code and name.

If the Administrator's code or name is not indicated, an error message is sent and the procedure cannot be executed.

The 'A' line has the following structure:

| Position | Length | Value     | Meaning              |
|----------|--------|-----------|----------------------|
| 2        | 1      | 'A'       | Line code            |
| 3        | 8      | bbbbbbbbb | Administrator's code |
| 11       | 36     |           | Administrator's name |

A 'B' line by database in which you indicate the characteristics of the development Databases which are to be managed in the new Administration Database. You must specify:

- the Database code: it is the logical code, which will be indicated upon the Database restoration.
- the Database name

If the Database code or name is not specified, an error message is sent and the procedure cannot be run.

The 'B' line has the following structure:

| Position | Length | Value | Meaning               |
|----------|--------|-------|-----------------------|
| 2        | 1      | 'B'   | Line code             |
| 3        | 4      | bbbb  | Logical Database name |
| 7        | 36     |       | Database name         |

## PE25 - Description of Steps

### PROCESSING OF USER PARAMETERS (PE): PTU920

| Code   | Physical name           | Type  | Label                        |
|--------|-------------------------|-------|------------------------------|
| PAC7EN | Save dir.: OLDPE        | Input | User parameters, old version |
| PAC7AE | System - Skel. dir.: AE | Input | Error messages               |
| PAC7MB | User input              | Input | User input                   |



| Code   | Physical name                  | Type   | Label                                       |
|--------|--------------------------------|--------|---------------------------------------------|
| PACGGR | Admin. Base - Base dir.:<br>AR | Input  | Administration Database data                |
| PACGGN | Admin. Base - Base dir.:<br>AN | Input  | Administration Database index               |
| PACGGU | Admin. Base - Base dir.:<br>GU | Input  | Administration Database users               |
| PAC7GY | Tmp dir.: WGY                  | Output | User parameter transactions<br>(length=310) |
| PAC7ET | User dir.: PE25ET920           | Report | Error report                                |

#### TRANSACTION FORMATTING: PAF900

| Code   | Physical name                  | Type   | Label                                                                                                                                                                                   |
|--------|--------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PAC7AR | Admin. Base - Base<br>dir.: AR | Input  | Administration Database data                                                                                                                                                            |
| PAC7AN | Admin. Base - Base<br>dir.: AN | Input  | Administration Database index                                                                                                                                                           |
| PAC7AE | System - Skel. dir.:<br>AE     | Input  | Error labels                                                                                                                                                                            |
| PACGGR | Admin. Base - Base<br>dir.: AR | Input  | Administration Database data                                                                                                                                                            |
| PACGGN | Admin. Base - Base<br>dir.: AN | Input  | Administration Database index                                                                                                                                                           |
| PACGGU | Admin. Base - Base<br>dir.: GU | Input  | Administration Database users                                                                                                                                                           |
| PAC7GY | Tmp dir.: WGY                  | Input  | Update transactions                                                                                                                                                                     |
| PAC7MV | Tmp dir.: WMV                  | Output | Transactions formatting (should<br>be able to contain all input<br>transactions and the elementary<br>cancel transactions generated by<br>multiple cancel transactions)<br>(length=170) |
| PAC7ME | Tmp dir.: WME                  | Output | Work file (length=372)                                                                                                                                                                  |
| PAC7MW | Tmp dir.: WMW                  | Output | Work file (length=170)                                                                                                                                                                  |
| PAC7MX | Tmp dir.: WMX                  | Output | Work file (length=743)                                                                                                                                                                  |
| PAC7MY | Tmp dir.: WMY                  | Output | Work file (length=743)                                                                                                                                                                  |

UPDATE OF THE ADMINISTRATION DATABASE: PACA15

| Code   | Physical name               | Type   | Label                                          |
|--------|-----------------------------|--------|------------------------------------------------|
| PAC7AR | Admin. Base - Base dir.: AR | Output | Administration Database Data file              |
| PAC7AN | Admin. Base - Base dir.: AN | Output | Administration Database Index file             |
| PAC7AY | Admin. Base - Base dir.: AY | Output | Administration Database extension              |
| PAC7AJ | Admin. Base - Base dir.: AJ | Output | Administration Database journal                |
| PAC7AE | System - Skel. dir.: AE     | Input  | Error messages                                 |
| PACGGN | Admin. Base - Base dir.: AN | Input  | Administration Database Index file             |
| PACGGR | Admin. Base - Base dir.: AR | Input  | Administration Database Data file              |
| PACGGY | Admin. Base - Base dir.: AY | Input  | Administration Database Extension              |
| PACGGU | Admin. Base - Base dir.: GU | Input  | Administration Database users                  |
| PAC7DC | Base dir.: DC               | Input  | DSMS file of Development Database elements     |
| PAC7ME | Tmp dir.: WME               | Input  | Work file                                      |
| PAC7MV | Tmp dir.: WMV               | Input  | Update transactions                            |
| PAC7RB | nul                         | Output | UPDT erroneous transactions (length=80)        |
| PAC7RY | nul                         | Output | UPDP erroneous transactions (length=310)       |
| PAC7IE |                             | Report | Update report (length=132)                     |
| PAC7IF |                             | Report | Summary of erroneous transactions (length=132) |

The list of transactions specific to a user is preceded by a banner with this user's code.

Return codes:

- 0 : OK without error
- 2 : warning error

- 4 : fatal error

## PE25 - Execution Script

```
#!/bin/sh
#@(#)VA Pac xxx xxx (R) PE25 BATCH PROCEDURE
* -----
* VISUALAGE PACBASE
*
* -----
* RETRIEVAL OF PE FILE
*
* -----
*
Parameter control
. $PACDIR/system/proc/BVPINIT.ini
echo ""
echo "-----"
BVPMSG 1004 "PE25"
echo " ====="
BVPMSG 1047 "$BVPBASE"
BVPMSG 1005 "$PACDIR/config/$1"
BVPMSG 1006 "$PACTMP"
BVPMSG 1073 "$PACUSERS"
BVPMSG 1007 "$PACINPUT"
. $PACDIR/config/$1/PACSAVPC.ini
PAC7EN=`BVPENV PTU908 PAC7EN \dirname $PACSAVPC\`/OLDPE`
BVPMSG 1044 PE 2.5 $PAC7EN
echo "-----"
echo ""
BVPPAUSE
$PACDIR/system/proc/SERVER $1 proc
RETURN=?
if ["$RETURN" != "0"]
then
 BVPMSG 1012 "PE25"
 BVPMSG 1037 $1
 BVPERR
 exit $RETURN
fi
BVPMKDIR

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
. $PACDIR/config/$1/PACSAVPC.ini
PAC7EN=`BVPENV PTU920 PAC7EN \dirname $PACSAVPC\`/OLDPE`
export PAC7EN
PAC7ET=`BVPENV PTU920 PAC7ET $PACUSERS/PE25ET920.txt`
export PAC7ET
PAC7GY=`BVPENV PTU920 PAC7GY $PACTMP/WGY`
export PAC7GY
PAC7MB=$PACINPUT
export PAC7MB
BVPMSG 1009 "BVPTU920"
```

```

rtspac BVPTU920
RETURN=$?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPTU920"
BVPMSG 1025
BVPERR
BVPRMTMP
exit $RETURN
;;
esac

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/$1/PAC7AN.ini
. $PACDIR/config/$1/PAC7AR.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
PAC7GY=`BVPENV PAF900 PAC7GY $PACTMP/WGY`
export PAC7GY
PAC7ME=`BVPENV PAF900 PAC7ME $PACTMP/WME`
export PAC7ME
PAC7MV=`BVPENV PAF900 PAC7MV $PACTMP/WMV`
export PAC7MV
PAC7MW=`BVPENV PAF900 PAC7MW $PACTMP/WMW`
export PAC7MW
PAC7MX=`BVPENV PAF900 PAC7MX $PACTMP/WMX`
export PAC7MX
PAC7MY=`BVPENV PAF900 PAC7MY $PACTMP/WMY`
export PAC7MY
BVPMSG 1009 "BVPAF900"
rtspac BVPAF900
RETURN=$?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPAF900"
BVPMSG 1025
BVPERR
BVPRMTMP
exit $RETURN
;;
esac

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/$1/PAC7AJ.ini
. $PACDIR/config/$1/PAC7AN.ini
. $PACDIR/config/$1/PAC7AR.ini
. $PACDIR/config/$1/PAC7AY.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini

```

```

. $PACDIR/config/$1/PAC7DC.ini
. $PACDIR/config/$1/SEMLOCK.ini
PAC7IE=~BVPENV PACA15 PAC7IE $PACUSERS/PE25IEA15.txt~
export PAC7IE
PAC7IF=~BVPENV PACA15 PAC7IF $PACUSERS/PE25IFA15.txt~
export PAC7IF
PAC7ME=~BVPENV PACA15 PAC7ME $PACTMP/WME~
export PAC7ME
PAC7MV=~BVPENV PACA15 PAC7MV $PACTMP/WMV~
export PAC7MV
PAC7RB=~BVPENV PACA15 PAC7RB $PACTMP/WRB~
export PAC7RB
PAC7RY=~BVPENV PACA15 PAC7RY $PACTMP/WRY~
export PAC7RY
BVPMSG 1009 "BVPACA15"
rtspac BVPACA15
RETURN=?
case $RETURN in
0)
;;
2)
BVPMSG 1012 "BVPACA15"
BVPMSG 1054
BVPERR
BVPRMTMP
exit $RETURN
;;
4)
BVPMSG 1012 "BVPACA15"
BVPMSG 1055
BVPERR
BVPRMTMP
exit $RETURN
;;
*)
BVPMSG 1012 "BVPACA15"
BVPMSG 1025
BVPERR
BVPRMTMP
exit $RETURN
;;
esac

BVPMSG 1010
BVPRMTMP
exit $RETURN

```

---

## Retrieval of the Development Database (PC25)

### PC25 - Introduction

#### PRINCIPLE

This procedure (PC25) retrieves the PC file produced by the backup of the old development Database in a new PC file format.

#### EXECUTION CONDITIONS

None

#### PRINTED OUTPUT

This procedure prints a report which indicates the number of Manuals changed into Volumes, the warnings on User Entities, calls of Parameterized Input Aids and description of Reports (long data), the code of the new development Database and the number of records output by the PC file.

#### RESULT

The result of this procedure is a sequential image of the new development Database format. This new PC file must be used as input to the next required step: the re-organization step.

### **PC25 - Notes on Data Retrieval**

#### SPLITTING UP OF THE COMMENT DESCRIPTION (-G)

The comment description is split up into several descriptions.

- Comments

They include the comments and the COBOL alias (-GC).

#### CAUTION

In the 2.0 or 2.5 release, if the type of documentation line was not adapted to the entity type (ex: a generation line in a Data Element), it will become a comment.

- Generation lines

They include the G, P, V and Z line types (-GG).

- Generation parameters

They include the O line type (-GO).

- Error messages management

They include the C, D, F ,S ,T , U line types (-GE).

- Call of entities via Relations

They include the R line type (-CR).

- Spificity of the Input Aid entity

The type on the input aid description determines the type value on the definition, i.e. 'C' for comments, 'G' for generation parameters or 'O' for generation options. The input aid calls are accessible through -GC, -GG or -GO.

If there are several type values on the same description in the 2.0 or 2.5 release, an error message is displayed, and the error must be corrected manually.

There again, if the input aid call is wrongly 'Generated' or 'dialogue option', it will become a comment.

### DATA STRUCTURES TABLE TYPE

Data Structure with a table type (G, T, M, N) and a Logical View type (V) do not change. All other types (files...) become the Z type. The Report entity is no longer supported by the Data Structure, thus the J type no longer exists.

### TRANSFORMATION OF U TYPE MANUALS

Manuals are replaced with volumes, their codes are completed with 'IBM'.

### LONG DATA: USER ENTITIES, INPUT AIDS, REPORT LAYOUTS

There are no more continuation records for these entities. Formally, there was one index for one main record and one index for each continuation record. Now long data is created to concatenate the information included in the previous records. This data can be 1,000 characters long. It is split up into several records. Now a single index is created and it points at the first of these records.

**IMPORTANT:** If a continuation record is modified in a sub-library, in the 2.n release, this modification is not retrieved in the long data in the lower libraries.

So if the retrieval process detects any update in one or more sub-library(ies) on the same continuation record, the following warning messages are displayed:

- "Risk of inconsistency of the \$xx xxxxxx user entity definition in the xxx library".
- 'Risk of inconsistency of the xxx documentation line under xxxxxxxx input aid in the xxx library'.
- "Risk of inconsistency of labels on the xxx line of the xxx report in the xxx library"

The user will have to modify these records manually if they are inconsistent with those of the 2.0 or 2.5 release.

## PC25 - Input / Processing / Results

A \* line with the code of the new development Database.

This line is optional if the Database code indicated in the 2.5 release can be kept. This Database code must have been defined in the Administration Database.

If you do not specify any Database code, an error message is sent and the procedure cannot be run.

This line must be structured in this way:

| Position | Length | Value | Meaning              |
|----------|--------|-------|----------------------|
| 2        | 1      | '**'  | Line code            |
| 3        | 4      | bbbb  | Code of new Database |

## PC25 - Description of Steps

GENERAL PROCESSES: PTU911

| Code   | Physical name           | Type   | Label                                                                                                                      |
|--------|-------------------------|--------|----------------------------------------------------------------------------------------------------------------------------|
| PAC7MC | Save dir. : OLDPC       | Input  | Sequential image of the network (old release)                                                                              |
| PAC7AE | System - Skel dir. : AE | Input  | Error messages                                                                                                             |
| PAC7MB | User input              | Input  | User input                                                                                                                 |
| PAC7PB | Tmp dir. : WPC          | Output | Firtst data record (length=153)                                                                                            |
| PAC7PE | Tmp dir. : WPE          | Output | User Entity Occurence definition (2.5 release), Report layouts, and Comments (except the calls of Input Aids) (length=193) |
| PAC7PG | Tmp dir. : WPG          | Output | Description of Input Aids and Comments including calls of Input Aids. (length=193)                                         |
| PAC7PL | Tmp dir. : WPL          | Output | Definition and Description of Volumes, Definition and Description of Manuals (length=193)                                  |
| PAC7PZ | Tmp dir. : WPZ          | Output | User Entities and description of their Occurences (2.5 release)                                                            |
| PAC7PF | Tmp dir. : WPF          | Output | Other records (length=153)                                                                                                 |
| PAC7PM | Tmp dir. : WPM          | Output | Report file (length=48)                                                                                                    |



| Code   | Physical name         | Type   | Label                                   |
|--------|-----------------------|--------|-----------------------------------------|
| PAC7ET | User dir. : PC25ET911 | Report | Report only if absence of Database code |

#### MANUALS AND VOLUMES PROCESSING: PTU909

| Code   | Physical name           | Type         | Label                                                                     |
|--------|-------------------------|--------------|---------------------------------------------------------------------------|
| PAC7AE | System - Skel dir. : AE | Input        | Error messages                                                            |
| PAC7PB | Tmp dir. : WPC          | Input        | First data record                                                         |
| PAC7PL | Tmp dir. : WPL          | Input        | Definition and Description of Volumes and Manuals                         |
| PAC7PI | Tmp dir. : WPI          | Output       | Sorted and re-formatted Volumes Definitions and Descriptions (length=153) |
| PAC7PM | Tmp dir. : WPM          | Input/Output | Report file                                                               |

#### COMMENTS PROCESSING: PTU92A

| Code   | Physical name           | Type         | Label                                                                            |
|--------|-------------------------|--------------|----------------------------------------------------------------------------------|
| PAC7AE | System - Skel dir. : AE | Input        | Error messages                                                                   |
| PAC7PG | Tmp dir. : WPG          | Input        | Description of Input Aids and of the call of Input Aids in the Comments          |
| PAC7PM | Tmp dir. : WPM          | Input/Output | Report                                                                           |
| PAC7PE | Tmp dir. : WPH          | Output       | Description of Input Aids and of the call of Input Aids in Comments (length=193) |

#### META-ENTITIES PROCESSING: PTU912

| Code   | Physical name           | Type   | Label                                                                |
|--------|-------------------------|--------|----------------------------------------------------------------------|
| PAC7AE | System - Skel dir. : AE | Input  | Error messages                                                       |
| PAC7PZ | Tmp dir. : WPZ          | Input  | User Entities (2.5 release)                                          |
| PAC7PB | Tmp dir. : WPC          | Input  | First data record                                                    |
| PAC7ZP | Tmp dir. : WZP          | Output | Development Model records (Definition and Descriptions) (length=193) |

REPORT LAYOUT PROCESSING: PTU919

| <b>Code</b> | <b>Physical name</b>       | <b>Type</b>  | <b>Label</b>                                                                                                             |
|-------------|----------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------|
| PAC7AE      | System - Skel dir. :<br>AE | Input        | Error messages                                                                                                           |
| PAC7PE      | Tmp dir. : WPE             | Input        | User Entity Occurences Definition (2.5 release), Report layouts and Comments (except calls of input aids)                |
| PAC7PB      | Tmp dir. : WPC             | Input        | First data record                                                                                                        |
| PAC7PH      | Tmp dir. : WPH             | Input        | Description of Input Aids and of their calls in the Comments                                                             |
| PAC7PM      | Tmp dir. : WPM             | Input/Output | Report file                                                                                                              |
| PAC7ZP      | Tmp dir. : WEP             | Output       | User entity Occurences Definition (2.5 release), Report layouts, and Comments (call of Input Aids included) (length=193) |
| PAC7PO      | Tmp dir. : WPO             | Output       | Comments (except the call of Input Aids) (length=153)                                                                    |
| PAC7PD      | Tmp dir. : WPD             | Output       | First data record (length=153)                                                                                           |

USER ENTITIES PROCESSING: PTU913

| <b>Code</b> | <b>Physical name</b>       | <b>Type</b> | <b>Label</b>                                                                                                                      |
|-------------|----------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------|
| PAC7AE      | System - Skel dir. :<br>AE | Input       | Error messages                                                                                                                    |
| PAC7PX      | Tmp dir. : WEP             | Input       | Definition of User Entity Occurences (2.5 release), Report layouts, and Comments (including the call of Input Aids)               |
| PAC7PZ      | Tmp dir. : WZP             | Input       | Definition and Description of the Development Model and Description of User Entity Occurences (2.5 release)                       |
| PAC7PB      | Tmp dir. : WPD             | Input       | First data record                                                                                                                 |
| PAC7ZP      | Tmp dir. : WZX             | Output      | Long data of the Development Model, User Entities, Report layouts, and Comments (including the calls of Input Aids ) (length=193) |

| Code   | Physical name  | Type   | Label                          |
|--------|----------------|--------|--------------------------------|
| PAC7PD | Tmp dir. : WPB | Output | First data record (length=153) |

#### SORT OF LONG DATA: PTU91A

| Code   | Physical name  | Type   | Label                         |
|--------|----------------|--------|-------------------------------|
| PAC7PZ | Tmp dir. : WZX | Input  | Intermediate long data        |
| PAC7ZP | Tmp dir. : WXZ | Output | Sorted long data (length=193) |

#### FILES MERGING: PTU914

This step consists in restoring the final sequential image from the intermediate files produced by the previous steps.

| Code   | Physical name           | Type   | Label                                         |
|--------|-------------------------|--------|-----------------------------------------------|
| PAC7AE | System - Skel dir. : AE | Input  | Error messages                                |
| PAC7ZP | Tmp dir. : WXZ          | Input  | Sorted long data                              |
| PAC7PO | Tmp dir. : WPO          | Input  | Comments (no call of Input Aids)              |
| PAC7PD | Tmp dir. : WPD          | Input  | First data record                             |
| PAC7PI | Tmp dir. : WPI          | Input  | Volumes Definition and Description            |
| PAC7PF | Tmp dir. : WPF          | Input  | Other records                                 |
| PAC7PM | Tmp dir. : WPM          | Input  | Report file                                   |
| PAC7PC | Save dir. : PC (+1)     | Output | Sequential image of the network (3.0 release) |
| PAC7ET | User dir. : PC25ET914   | Report | Retrieval report                              |

### **PC25 - Execution Script**

```
#!/bin/sh
#@(#)VA Pac xxx xxx (R) PC25 BATCH PROCEDURE
* -----
* VISUALAGE PACBASE
*
* -----
* RETRIEVAL OF PC FILE
*
* -----
*
Parameter control
. $PACDIR/system/proc/BVPINIT.ini
echo ""
echo "-----"
```

```

BVPMSG 1004 "PC25"
echo " ====="
BVPMSG 1047 "$BVPBASE"
BVPMSG 1005 "$PACDIR/config/$1"
BVPMSG 1006 "$PACTMP"
BVPMSG 1073 "$PACUSERS"
BVPMSG 1007 "$PACINPUT"
. $PACDIR/config/$1/PACSAVPC.ini
PAC7MC=~BVPENV PTU911 PAC7MC `dirname $PACSAVPC`/OLDPC`
BVPMSG 1044 PC 2.5 $PAC7MC
echo "-----"
echo ""
BVPPAUSE
BVPMKDIR

. $PACDIR/config/$1/PAC7AE.ini
PAC7ET=~BVPENV PTU911 PAC7ET $PACUSERS/PC25ET911.txt`
export PAC7ET
PAC7MB=$PACINPUT
export PAC7MB
. $PACDIR/config/$1/PACSAVPC.ini
PAC7MC=~BVPENV PTU911 PAC7MC `dirname $PACSAVPC`/OLDPC`
export PAC7MC
PAC7PB=~BVPENV PTU911 PAC7PB $PACTMP/WPC`
export PAC7PB
PAC7PE=~BVPENV PTU911 PAC7PE $PACTMP/WPE`
export PAC7PE
PAC7PF=~BVPENV PTU911 PAC7PF $PACTMP/WPF`
export PAC7PF
PAC7PG=~BVPENV PTU911 PAC7PG $PACTMP/WPG`
export PAC7PG
PAC7PL=~BVPENV PTU911 PAC7PL $PACTMP/WPL`
export PAC7PL
PAC7PM=~BVPENV PTU911 PAC7PM $PACTMP/WPM`
export PAC7PM
PAC7PZ=~BVPENV PTU911 PAC7PZ $PACTMP/WPZ`
export PAC7PZ
BVPMSG 1009 "BVPTU911"
rtspac BVPTU911
RETURN=$?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPTU911"
BVPMSG 1025
BVPERR
BVPRTMP
exit $RETURN
;;
esac

. $PACDIR/config/$1/PAC7AE.ini
PAC7PB=~BVPENV PTU909 PAC7PB $PACTMP/WPC`
export PAC7PB

```

```

PAC7PI=~BVPENV PTU909 PAC7PI $PACTMP/WPI`
export PAC7PI
PAC7PL=~BVPENV PTU909 PAC7PL $PACTMP/WPL`
export PAC7PL
PAC7PM=~BVPENV PTU909 PAC7PM $PACTMP/WPM`
export PAC7PM
BVPMSG 1009 "BVPTU909"
rtspac BVPTU909
RETURN=?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPTU909"
BVPMSG 1025
BVPERR
BVPRMTMP
exit $RETURN
;;
esac

PAC7PG=~BVPENV PTU92A PAC7PG $PACTMP/WPG`
export PAC7PG
PAC7PE=~BVPENV PTU92A PAC7PE $PACTMP/WPH`
export PAC7PE
PAC7PM=~BVPENV PTU92A PAC7PM $PACTMP/WPM`
export PAC7PM
BVPMSG 1009 "BVPTU92A"
rtspac BVPTU92A
RETURN=?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPTU92A"
BVPMSG 1025
BVPERR
BVPRMTMP
exit $RETURN
;;
esac

. $PACDIR/config/$1/PAC7AE.ini
PAC7PB=~BVPENV PTU912 PAC7PB $PACTMP/WPC`
export PAC7PB
PAC7PZ=~BVPENV PTU912 PAC7PZ $PACTMP/WPZ`
export PAC7PZ
PAC7ZP=~BVPENV PTU912 PAC7ZP $PACTMP/WZP`
export PAC7ZP
BVPMSG 1009 "BVPTU912"
rtspac BVPTU912
RETURN=?
case $RETURN in
0)
;;

```

```

*)
 BVPMSG 1012 "BVPTU912"
 BVPMSG 1025
 BVPERR
 BVPRMTMP
 exit $RETURN
;;
esac

. $PACDIR/config/$1/PAC7AE.ini
PAC7PB=~BVPENV PTU919 PAC7PB $PACTMP/WPC~
export PAC7PB
PAC7PD=~BVPENV PTU919 PAC7PD $PACTMP/WPD~
export PAC7PD
PAC7PE=~BVPENV PTU919 PAC7PE $PACTMP/WPE~
export PAC7PE
PAC7PH=~BVPENV PTU919 PAC7PH $PACTMP/WPH~
export PAC7PH
PAC7PM=~BVPENV PTU919 PAC7PM $PACTMP/WPM~
export PAC7PM
PAC7PO=~BVPENV PTU919 PAC7PO $PACTMP/WPO~
export PAC7PO
PAC7ZP=~BVPENV PTU919 PAC7ZP $PACTMP/WEP~
export PAC7ZP
BVPMSG 1009 "BVPTU919"
rtspac BVPTU919
RETURN=$?
case $RETURN in
0)
 ;;
*)
 BVPMSG 1012 "BVPTU919"
 BVPMSG 1025
 BVPERR
 BVPRMTMP
 exit $RETURN
;;
esac

. $PACDIR/config/$1/PAC7AE.ini
PAC7PB=~BVPENV PTU913 PAC7PB $PACTMP/WPD~
export PAC7PB
PAC7PD=~BVPENV PTU913 PAC7PD $PACTMP/WPB~
export PAC7PD
PAC7PX=~BVPENV PTU913 PAC7PX $PACTMP/WEP~
export PAC7PX
PAC7PZ=~BVPENV PTU913 PAC7PZ $PACTMP/WZP~
export PAC7PZ
PAC7ZP=~BVPENV PTU913 PAC7ZP $PACTMP/WZX~
export PAC7ZP
BVPMSG 1009 "BVPTU913"
rtspac BVPTU913
RETURN=$?
case $RETURN in
0)

```

```

;;
*)
 BVPMSG 1012 "BVPTU913"
 BVPMSG 1025
 BVPERR
 BVPRMTMP
 exit $RETURN
;;
esac

PAC7PZ=`BVPENV PTU91A PAC7PZ $PACTMP/WZX`
export PAC7PZ
PAC7ZP=`BVPENV PTU91A PAC7ZP $PACTMP/WXZ`
export PAC7ZP
BVPMSG 1009 "BVPTU91A"
rtspac BVPTU91A
RETURN=?
case $RETURN in
0)
 ;;
*)
 BVPMSG 1012 "BVPTU91A"
 BVPMSG 1025
 BVPERR
 BVPRMTMP
 exit $RETURN
;;
esac

. $PACDIR/config/$1/PAC7AE.ini
PAC7ET=`BVPENV PTU914 PAC7ET $PACUSERS/PC25ET914.txt`
export PAC7ET
. $PACDIR/config/$1/PACSAVPC.ini
PACSAVPC=`BVPENV PTU914 PAC7PC $PACSAVPC`
PAC7PC=$PACSAVPC.NEW
export PAC7PC
PAC7PD=`BVPENV PTU914 PAC7PD $PACTMP/WPB`
export PAC7PD
PAC7PF=`BVPENV PTU914 PAC7PF $PACTMP/WPF`
export PAC7PF
PAC7PI=`BVPENV PTU914 PAC7PI $PACTMP/WPI`
export PAC7PI
PAC7PM=`BVPENV PTU914 PAC7PM $PACTMP/WPM`
export PAC7PM
PAC7PO=`BVPENV PTU914 PAC7PO $PACTMP/WPO`
export PAC7PO
PAC7ZP=`BVPENV PTU914 PAC7ZP $PACTMP/WXZ`
export PAC7ZP
BVPMSG 1009 "BVPTU914"
rtspac BVPTU914
RETURN=?
case $RETURN in
0)
 ;;
*)

```

```

BVPMSG 1012 "BVPTU914"
BVPMSG 1025
BVPERR
BVPRMTMP
exit $RETURN
;;
esac

BVPMSG 1010
BVPMSG 1016 "PCBACKUP.ini"
sh $PACDIR/config/$1/PCBACKUP.ini
BVPRMTMP
exit $RETURN

```

---

## Generation-Print Commands Retrieval (PG20)

### PG20 - Introduction

#### PRINCIPLE

The PG20 procedure retrieves the 2.0 release PG file, sequential image of the generation-print commands, in the 3.0 release new format.

It updates the development Database with the generation-print commands and the Administration Database with the Script lines (displayed on the GP screen with the C4 option in the 2.0 release).

#### EXECUTION CONDITIONS

The files of the administration and development Databases must be closed in the on-line mode.

#### PRINTED OUTPUT

This procedure outputs a report which contains the errors encountered.

#### NOTE

The insertion of update transactions is possible only in libraries or sessions already defined in the Database, otherwise they are rejected.

The PG file may contain commands associated with a specific library or session which can be purged later.

The update of a generation-print command associated with an entity is not possible if the entity is not defined.

Example: for the GCP PROGRA command, the PROGRA program must be defined in the database.



User codes present in the PG file and not present in the administration database are automatically created for users who have Scripts.

## PG20 - Input / Processing / Results

A \* line with the user code, password and the code of the development Database for which the Script lines were previously updated in the administration Database.

If you do not specify the user code or the database code, an error message is sent and the procedure cannot be run.

The line structure is as follows:

| Position | Length | Value    | Meaning       |
|----------|--------|----------|---------------|
| 2        | 1      | '*       | Line code     |
| 3        | 8      | uuuuuuuu | User code     |
| 11       | 8      | pppppppp | Password      |
| 22       | 4      | cccc     | Database code |

## PG20 - Description of Steps

### GENERATION-PRINT COMMANDS FORMATTING: PTU908

| Code   | Physical name     | Type   | Label                                               |
|--------|-------------------|--------|-----------------------------------------------------|
| PAC7IN | Save dir. : PG20  | Input  | Generation-print commands, old release              |
| PAC7OU | Save dir. : OLDGP | Output | Re-formatted generation-print commands (length=150) |

### GENERATION-PRINT COMMANDS PROCESSING: PTU921

| Code   | Physical name           | Type   | Label                                               |
|--------|-------------------------|--------|-----------------------------------------------------|
| PAC7PG | Save dir. : OLDPG       | Input  | Generation-print commands, old release              |
| PAC7AE | System - Skel dir. : AE | Input  | Error labels                                        |
| PAC7MB | User input              | Input  | User Entities                                       |
| PAC7GY | Tmp dir. : WGY          | Output | Generation-print commands transactions (length=310) |
| PAC7GZ | Tmp dir. : WGZ          | Output | Script line transactions (length = 310)             |
| PAC7ET | User dir. : PGnnET921   | Report | Error report ( nn= 20 ou 25 , version number)       |

TRANSACTIONS FORMATTING: PAF900

| <b>Code</b> | <b>Physical name</b>           | <b>Type</b> | <b>Label</b>                                                                                                                                                                                 |
|-------------|--------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PAC7AR      | Base dir.: AR                  | Input       | Development Database data                                                                                                                                                                    |
| PAC7AN      | Base dir.: AN                  | Input       | Development Database index                                                                                                                                                                   |
| PAC7AE      | System - Skel. dir.:<br>AE     | Input       | Error messages                                                                                                                                                                               |
| PACGGR      | Admin. Base - Base<br>dir.: AR | Input       | Administration Database data                                                                                                                                                                 |
| PACGGN      | Admin. Base - Base<br>dir.: AN | Input       | Administration Database index                                                                                                                                                                |
| PACGGU      | Admin. Base - Base<br>dir.: GU | Input       | Administration Database users                                                                                                                                                                |
| PAC7GY      | Tmp. dir.: WGZ                 | Input       | Update transactions                                                                                                                                                                          |
| PAC7MV      | Tmp. dir.: WMV                 | Output      | Formatted transactions (It should be able to contain all input transactions and the elementary deletion transactions which are generated by the multiple deletion transactions) (length=170) |
| PAC7ME      | Tmp. dir.: WME                 | Output      | Work file (length=372)                                                                                                                                                                       |
| PAC7MW      | Tmp. dir.: WMW                 | Output      | Work file (length=170)                                                                                                                                                                       |
| PAC7MX      | Tmp. dir.: WMX                 | Output      | Work file (length=743)                                                                                                                                                                       |
| PAC7MY      | Tmp. dir.: WMY                 | Output      | Work file (length=743)                                                                                                                                                                       |

UPDATE OF THE DEVELOPMENT DATABASE: PACA15

| <b>Code</b> | <b>Physical name</b>           | <b>Type</b> | <b>Label</b>                       |
|-------------|--------------------------------|-------------|------------------------------------|
| PAC7AR      | Base dir.: AR                  | Output      | Development Database Data file     |
| PAC7AN      | Base dir.: AN                  | Output      | Development Database index         |
| PAC7AY      | Base dir.: AY                  | Output      | Development Database extension     |
| PAC7AJ      | Journal dir.: AJ               | Output      | Development Database journal       |
| PAC7AE      | System - Skel. dir.:<br>AE     | Input       | Error messages                     |
| PACGGN      | Admin. Base - Base<br>dir.: AN | Input       | Administration Database Index file |
| PACGGR      | Admin. Base - Base<br>dir.: AR | Input       | Administration Database Data file  |

| Code   | Physical name               | Type   | Label                                       |
|--------|-----------------------------|--------|---------------------------------------------|
| PACGGY | Admin. Base - Base dir.: AY | Input  | Administration Database Extension           |
| PACGGU | Admin. Base - Base dir.: GU | Input  | Administration Database users               |
| PAC7DC | nul                         | Input  | DSMS file of Development Database Elements  |
| PAC7ME | Tmp dir.: WME               | Input  | Work file                                   |
| PAC7MV | Tmp dir.: WMV               | Input  | Update transactions                         |
| PAC7RB | nul                         | Output | UPDT erroneous transactions (length=80)     |
| PAC7RY | nul                         | Output | UPDP erroneous transactions (length=310)    |
| PAC7IE |                             | Report | Update report (length=132)                  |
| PAC7IF |                             | Report | List of erroneous transactions (length=132) |

The list of user transactions is preceded by a banner with the user code.

Return codes:

- 0: OK, no error
- 2: Warning
- 4: Critical error

TRANSACTION FORMATTING: PAF900

| Code   | Physical name               | Type  | Label                         |
|--------|-----------------------------|-------|-------------------------------|
| PAC7AR | Admin. Base - Base dir.: AR | Input | Administration Database data  |
| PAC7AN | Admin. Base - Base dir.: AN | Input | Administration Database index |
| PAC7AE | System - Skel. dir.: AE     | Input | Error labels                  |
| PACGGR | Admin. Base - Base dir.: AR | Input | Administration Database data  |
| PACGGN | Admin. Base - Base dir.: AN | Input | Administration Database index |
| PACGGU | Admin. Base - Base dir.: GU | Input | Administration Database users |

| Code   | Physical name | Type   | Label                                                                                                                                                                    |
|--------|---------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PAC7GY | Tmp dir.: WGY | Input  | Update transactions                                                                                                                                                      |
| PAC7MV | Tmp dir.: WMV | Output | Transactions formatting (should be able to contain all input transactions and the elementary cancel transactions generated by multiple cancel transactions) (length=170) |
| PAC7ME | Tmp dir.: WME | Output | Work file (length=372)                                                                                                                                                   |
| PAC7MW | Tmp dir.: WMW | Output | Work file (length=170)                                                                                                                                                   |
| PAC7MX | Tmp dir.: WMX | Output | Work file (length=743)                                                                                                                                                   |
| PAC7MY | Tmp dir.: WMY | Output | Work file (length=743)                                                                                                                                                   |

#### UPDATE OF THE ADMINISTRATION DATABASE: PACA15

| Code   | Physical name               | Type   | Label                                      |
|--------|-----------------------------|--------|--------------------------------------------|
| PAC7AR | Admin. Base - Base dir.: AR | Output | Administration Database Data file          |
| PAC7AN | Admin. Base - Base dir.: AN | Output | Administration Database Index file         |
| PAC7AY | Admin. Base - Base dir.: AY | Output | Administration Database extension          |
| PAC7AJ | Admin. Base - Base dir.: AJ | Output | Administration Database journal            |
| PAC7AE | System - Skel. dir.: AE     | Input  | Error messages                             |
| PACGGN | Admin. Base - Base dir.: AN | Input  | Administration Database Index file         |
| PACGGR | Admin. Base - Base dir.: AR | Input  | Administration Database Data file          |
| PACGGY | Admin. Base - Base dir.: AY | Input  | Administration Database Extension          |
| PACGGU | Admin. Base - Base dir.: GU | Input  | Administration Database users              |
| PAC7DC | Base dir.: DC               | Input  | DSMS file of Development Database elements |
| PAC7ME | Tmp dir.: WME               | Input  | Work file                                  |
| PAC7MV | Tmp dir.: WMV               | Input  | Update transactions                        |
| PAC7RB | nul                         | Output | UPDT erroneous transactions (length=80)    |

| Code   | Physical name | Type   | Label                                          |
|--------|---------------|--------|------------------------------------------------|
| PAC7RY | nul           | Output | UPDP erroneous transactions (length=310)       |
| PAC7IE |               | Report | Update report (length=132)                     |
| PAC7IF |               | Report | Summary of erroneous transactions (length=132) |

The list of transactions specific to a user is preceded by a banner with this user's code.

Return codes:

- 0 : OK without error
- 2 : warning error
- 4 : fatal error

## PG20 - Execution Script

```
#!/bin/sh
#@(#)VA Pac xxx xxx (R) PG20 BATCH PROCEDURE
* -----
* VISUALAGE PACBASE
*
* -----
* RETRIEVAL OF PG FILE SINCE 2.0
*
* -----
*
Parameter control
. $PACDIR/system/proc/BVPINIT.ini
echo ""
echo "-----"
BVPMSG 1004 "PG20"
echo " ====="
BVPMSG 1047 "$BVPBASE"
BVPMSG 1005 "$PACDIR/config/$1"
BVPMSG 1006 "$PACTMP"
BVPMSG 1073 "$PACUSERS"
BVPMSG 1007 "$PACINPUT"
. $PACDIR/config/$1/PACSAVPC.ini
PAC7IN=`BVPENV PTU908 PAC7IN \dirname $PACSAVPC\`/OLDPG`
BVPMSG 1044 PG 2.0 $PAC7IN
echo "-----"
echo ""
BVPPAUSE
$PACDIR/system/proc/SERVER $1 proc
RETURN=?
if ["$RETURN" != "0"]
then
 BVPMSG 1012 "PG20"
```

```

 BVPMSG 1037 $1
 BVPERR
 exit $RETURN
 fi
BVPMKDIR

. $PACDIR/config/$1/PACSAVPC.ini
PAC7IN=~BVPENV PTU908 PAC7IN `dirname $PACSAVPC`~/OLDPG`
export PAC7IN
PAC7OU=~BVPENV PTU908 PAC7OU $PACTMP/WPG`
export PAC7OU
BVPMSG 1009 "BVPTU908"
rtspac BVPTU908
RETURN=$?
case $RETURN in
0)
 ;;
*)
 BVPMSG 1012 "BVPTU908"
 BVPMSG 1025
 BVPERR
 BVPRMTMP
 exit $RETURN
 ;;
esac

. $PACDIR/config/$1/PAC7AE.ini
PAC7ET=~BVPENV PTU921 PAC7ET $PACUSERS/PG20ET921.txt`
export PAC7ET
PAC7GY=~BVPENV PTU921 PAC7GY $PACTMP/WGY`
export PAC7GY
PAC7GZ=~BVPENV PTU921 PAC7GZ $PACTMP/WGZ`
export PAC7GZ
PAC7MB=$PACINPUT
export PAC7MB
PAC7PG=~BVPENV PTU921 PAC7PG $PACTMP/WPG`
export PAC7PG
BVPMSG 1009 "BVPTU921"
rtspac BVPTU921
RETURN=$?
case $RETURN in
0)
 ;;
*)
 BVPMSG 1012 "BVPTU921"
 BVPMSG 1025
 BVPERR
 BVPRMTMP
 exit $RETURN
 ;;
esac

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/ADMI/PAC7AN.ini
. $PACDIR/config/ADMI/PAC7AR.ini

```

```

. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
PAC7GY=`BVPENV PAF900 PAC7GY $PACTMP/WGZ`
export PAC7GY
PAC7ME=`BVPENV PAF900 PAC7ME $PACTMP/WME`
export PAC7ME
PAC7MV=`BVPENV PAF900 PAC7MV $PACTMP/WMV`
export PAC7MV
PAC7MW=`BVPENV PAF900 PAC7MW $PACTMP/WMW`
export PAC7MW
PAC7MX=`BVPENV PAF900 PAC7MX $PACTMP/WMX`
export PAC7MX
PAC7MY=`BVPENV PAF900 PAC7MY $PACTMP/WMY`
export PAC7MY
BVPMSG 1009 "BVPAF900"
rtspac BVPAF900
RETURN=$?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPAF900"
BVPMSG 1025
;;
esac

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/ADMI/PAC7AJ.ini
. $PACDIR/config/ADMI/PAC7AN.ini
. $PACDIR/config/ADMI/PAC7AR.ini
. $PACDIR/config/ADMI/PAC7AY.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
. $PACDIR/config/$1/PACGGY.ini
. $PACDIR/config/$1/PAC7DC.ini
. $PACDIR/config/ADMI/SEMLOCK.ini
PAC7IE=`BVPENV PACA15 PAC7IE $PACUSERS/PG20IEADM.txt`
export PAC7IE
PAC7IF=`BVPENV PACA15 PAC7IF $PACUSERS/PG20IFADM.txt`
export PAC7IF
PAC7ME=`BVPENV PACA15 PAC7ME $PACTMP/WME`
export PAC7ME
PAC7MV=`BVPENV PACA15 PAC7MV $PACTMP/WMV`
export PAC7MV
PAC7RB=`BVPENV PACA15 PAC7RB $PACTMP/WRB`
export PAC7RB
PAC7RY=`BVPENV PACA15 PAC7RY $PACTMP/WRY`
export PAC7RY
BVPMSG 1009 "BVPACA15"
rtspac BVPACA15
RETURN=$?
case $RETURN in
0)

```

```

;;
2)
 BVPMSG 1012 "BVPACA15"
 BVPMSG 1054
;;
4)
 BVPMSG 1012 "BVPACA15"
 BVPMSG 1055
;;
*)
 BVPMSG 1012 "BVPACA15"
 BVPMSG 1025
;;
esac

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/$1/PAC7AN.ini
. $PACDIR/config/$1/PAC7AR.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
PAC7GY=`BVPENV PAF900 PAC7GY $PACTMP/WGY`
export PAC7GY
PAC7ME=`BVPENV PAF900 PAC7ME $PACTMP/WME`
export PAC7ME
PAC7MV=`BVPENV PAF900 PAC7MV $PACTMP/WMV`
export PAC7MV
PAC7MW=`BVPENV PAF900 PAC7MW $PACTMP/WMW`
export PAC7MW
PAC7MX=`BVPENV PAF900 PAC7MX $PACTMP/WMX`
export PAC7MX
PAC7MY=`BVPENV PAF900 PAC7MY $PACTMP/WMY`
export PAC7MY
BVPMSG 1009 "BVPAF900"
rtspac BVPAF900
RETURN=$?
case $RETURN in
0)
;;
*)
 BVPMSG 1012 "BVPAF900"
 BVPMSG 1025
;;
esac

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/$1/PAC7AJ.ini
. $PACDIR/config/$1/PAC7AN.ini
. $PACDIR/config/$1/PAC7AR.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
. $PACDIR/config/$1/PAC7DC.ini
. $PACDIR/config/$1/SEMLOCK.ini
PAC7IE=`BVPENV PACA15 PAC7IE $PACUSERS/PG20IEA15.txt`

```



```

export PAC7IE
PAC7IF=~BVPENV PACA15 PAC7IF $PACUSERS/PG20IFA15.txt~
export PAC7IF
PAC7ME=~BVPENV PACA15 PAC7ME $PACTMP/WME~
export PAC7ME
PAC7MV=~BVPENV PACA15 PAC7MV $PACTMP/WMV~
export PAC7MV
PAC7RB=~BVPENV PACA15 PAC7RB $PACTMP/WRB~
export PAC7RB
PAC7RY=~BVPENV PACA15 PAC7RY $PACTMP/WRY~
export PAC7RY
BVPMSG 1009 "BVPACA15"
rtspac BVPACA15
RETURN=?
case $RETURN in
0)
;;
2)
BVPMSG 1012 "BVPACA15"
BVPMSG 1054
BVPERR
BVPRMTMP
exit $RETURN
;;
4)
BVPMSG 1012 "BVPACA15"
BVPMSG 1055
BVPERR
BVPRMTMP
exit $RETURN
;;
*)
BVPMSG 1012 "BVPACA15"
BVPMSG 1025
BVPERR
BVPRMTMP
exit $RETURN
;;
esac

BVPMSG 1010
BVPRMTMP
exit $RETURN

```

---

## Generation-Print Commands Retrieval (PG25)

### PG25 - Introduction

#### PRINCIPLE

The PG25 procedure retrieves the 2.5 release PG file, sequential image of the generation-print commands, in the 3.0 release new format.

It updates the development Database with the generation-print commands and the Administration Database with the Script lines (displayed on the GP screen with the C4 option in the 2.5 release).

### EXECUTION CONDITIONS

The files of the Administration and Development Databases must be closed to on-line use.

### PRINTED OUTPUT

This procedure prints a report on the errors encountered.

### NOTE

The insertion of update transactions is possible only in libraries or sessions already defined in the Database, otherwise they are rejected.

The PG file may contain commands associated with a specific library or session which can be purged later.

The update of a generation-print command associated with an entity is not possible if the entity is not defined. Example: for the GCP PROGRA command, the PROGRA program must be defined in the database.

User codes present in the PG file and not present in the administration database are automatically created for users who have Scripts.

## **PG25 - Input / Processing / Results**

A \* line with the user code, password and the code of the development Database for which the Script lines were previously updated in the administration Database.

If you do not specify the user code or the database code, an error message is sent and the procedure cannot be run.

The line structure is as follows:

| Position | Length | Value    | Meaning       |
|----------|--------|----------|---------------|
| 2        | 1      | '*'      | Line code     |
| 3        | 8      | uuuuuuuu | User code     |
| 11       | 8      | pppppppp | Password      |
| 22       | 4      | cccc     | Database code |

## PG25 - Description of Steps

### GENERATION-PRINT COMMANDS PROCESSING: PTU921

| Code   | Physical name           | Type   | Label                                               |
|--------|-------------------------|--------|-----------------------------------------------------|
| PAC7PG | Save dir. : OLDPG       | Input  | Generation-print commands, old release              |
| PAC7AE | System - Skel dir. : AE | Input  | Error labels                                        |
| PAC7MB | User input              | Input  | User Entities                                       |
| PAC7GY | Tmp dir. : WGY          | Output | Generation-print commands transactions (length=310) |
| PAC7GZ | Tmp dir. : WGZ          | Output | Script line transactions (length = 310)             |
| PAC7ET | User dir. : PGnnET921   | Report | Error report ( nn= 20 ou 25 , version number)       |

### TRANSACTIONS FORMATTING: PAF900

| Code   | Physical name               | Type   | Label                                                                                                                                                                                        |
|--------|-----------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PAC7AR | Base dir.: AR               | Input  | Development Database data                                                                                                                                                                    |
| PAC7AN | Base dir.: AN               | Input  | Development Database index                                                                                                                                                                   |
| PAC7AE | System - Skel. dir.: AE     | Input  | Error messages                                                                                                                                                                               |
| PACGGR | Admin. Base - Base dir.: AR | Input  | Administration Database data                                                                                                                                                                 |
| PACGGN | Admin. Base - Base dir.: AN | Input  | Administration Database index                                                                                                                                                                |
| PACGGU | Admin. Base - Base dir.: GU | Input  | Administration Database users                                                                                                                                                                |
| PAC7GY | Tmp. dir.: WGZ              | Input  | Update transactions                                                                                                                                                                          |
| PAC7MV | Tmp. dir.: WMV              | Output | Formatted transactions (It should be able to contain all input transactions and the elementary deletion transactions which are generated by the multiple deletion transactions) (length=170) |
| PAC7ME | Tmp. dir.: WME              | Output | Work file (length=372)                                                                                                                                                                       |
| PAC7MW | Tmp dir.: WMW               | Output | Work file (length=170)                                                                                                                                                                       |
| PAC7MX | Tmp dir.: WMX               | Output | Work file (length=743)                                                                                                                                                                       |

| Code   | Physical name | Type   | Label                  |
|--------|---------------|--------|------------------------|
| PAC7MY | Tmp dir.: WMY | Output | Work file (length=743) |

#### UPDATE OF THE DEVELOPMENT DATABASE: PACA15

| Code   | Physical name                  | Type   | Label                                          |
|--------|--------------------------------|--------|------------------------------------------------|
| PAC7AR | Base dir.: AR                  | Output | Development Database Data file                 |
| PAC7AN | Base dir.: AN                  | Output | Development Database index                     |
| PAC7AY | Base dir.: AY                  | Output | Development Database extension                 |
| PAC7AJ | Journal dir.: AJ               | Output | Development Database journal                   |
| PAC7AE | System - Skel. dir.:<br>AE     | Input  | Error messages                                 |
| PACGGN | Admin. Base - Base<br>dir.: AN | Input  | Administration Database Index<br>file          |
| PACGGR | Admin. Base - Base<br>dir.: AR | Input  | Administration Database Data file              |
| PACGGY | Admin. Base - Base<br>dir.: AY | Input  | Administration Database<br>Extension           |
| PACGGU | Admin. Base - Base<br>dir.: GU | Input  | Administration Database users                  |
| PAC7DC | nul                            | Input  | DSMS file of Development<br>Database Elements  |
| PAC7ME | Tmp dir.: WME                  | Input  | Work file                                      |
| PAC7MV | Tmp dir.: WMV                  | Input  | Update transactions                            |
| PAC7RB | nul                            | Output | UPDT erroneous transactions<br>(length=80)     |
| PAC7RY | nul                            | Output | UPDP erroneous transactions<br>(length=310)    |
| PAC7IE |                                | Report | Update report (length=132)                     |
| PAC7IF |                                | Report | List of erroneous transactions<br>(length=132) |

The list of user transactions is preceded by a banner with the user code.

Return codes:

- 0: OK, no error
- 2: Warning
- 4: Critical error

TRANSACTION FORMATTING: PAF900

| <b>Code</b> | <b>Physical name</b>        | <b>Type</b> | <b>Label</b>                                                                                                                                                             |
|-------------|-----------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PAC7AR      | Admin. Base - Base dir.: AR | Input       | Administration Database data                                                                                                                                             |
| PAC7AN      | Admin. Base - Base dir.: AN | Input       | Administration Database index                                                                                                                                            |
| PAC7AE      | System - Skel. dir.: AE     | Input       | Error labels                                                                                                                                                             |
| PACGGR      | Admin. Base - Base dir.: AR | Input       | Administration Database data                                                                                                                                             |
| PACGGN      | Admin. Base - Base dir.: AN | Input       | Administration Database index                                                                                                                                            |
| PACGGU      | Admin. Base - Base dir.: GU | Input       | Administration Database users                                                                                                                                            |
| PAC7GY      | Tmp dir.: WGY               | Input       | Update transactions                                                                                                                                                      |
| PAC7MV      | Tmp dir.: WMV               | Output      | Transactions formatting (should be able to contain all input transactions and the elementary cancel transactions generated by multiple cancel transactions) (length=170) |
| PAC7ME      | Tmp dir.: WME               | Output      | Work file (length=372)                                                                                                                                                   |
| PAC7MW      | Tmp dir.: WMW               | Output      | Work file (length=170)                                                                                                                                                   |
| PAC7MX      | Tmp dir.: WMX               | Output      | Work file (length=743)                                                                                                                                                   |
| PAC7MY      | Tmp dir.: WMY               | Output      | Work file (length=743)                                                                                                                                                   |

UPDATE OF THE ADMINISTRATION DATABASE: PACA15

| <b>Code</b> | <b>Physical name</b>        | <b>Type</b> | <b>Label</b>                       |
|-------------|-----------------------------|-------------|------------------------------------|
| PAC7AR      | Admin. Base - Base dir.: AR | Output      | Administration Database Data file  |
| PAC7AN      | Admin. Base - Base dir.: AN | Output      | Administration Database Index file |
| PAC7AY      | Admin. Base - Base dir.: AY | Output      | Administration Database extension  |
| PAC7AJ      | Admin. Base - Base dir.: AJ | Output      | Administration Database journal    |
| PAC7AE      | System - Skel. dir.: AE     | Input       | Error messages                     |

| Code   | Physical name               | Type   | Label                                          |
|--------|-----------------------------|--------|------------------------------------------------|
| PACGGN | Admin. Base - Base dir.: AN | Input  | Administration Database Index file             |
| PACGGR | Admin. Base - Base dir.: AR | Input  | Administration Database Data file              |
| PACGGY | Admin. Base - Base dir.: AY | Input  | Administration Database Extension              |
| PACGGU | Admin. Base - Base dir.: GU | Input  | Administration Database users                  |
| PAC7DC | Base dir.: DC               | Input  | DSMS file of Development Database elements     |
| PAC7ME | Tmp dir.: WME               | Input  | Work file                                      |
| PAC7MV | Tmp dir.: WMV               | Input  | Update transactions                            |
| PAC7RB | nul                         | Output | UPDT erroneous transactions (length=80)        |
| PAC7RY | nul                         | Output | UPDP erroneous transactions (length=310)       |
| PAC7IE |                             | Report | Update report (length=132)                     |
| PAC7IF |                             | Report | Summary of erroneous transactions (length=132) |

The list of transactions specific to a user is preceded by a banner with this user's code.

Return codes:

- 0 : OK without error
- 2 : warning error
- 4 : fatal error

## PG25 - Execution Script

```
#!/bin/sh
#@(#)VA Pac xxx xxx (R) PG25 BATCH PROCEDURE
* -----
* VISUALAGE PACBASE
*
* RETRIEVAL OF PG FILE SINCE 2.5
*
* -----
*
Parameter control
. $PACDIR/system/proc/BVPINIT.ini
```

```

echo ""
echo "-----"
BVPMSG 1004 "PG25"
echo " ====="
BVPMSG 1047 "$BVPBASE"
BVPMSG 1005 "$PACDIR/config/$1"
BVPMSG 1006 "$PACTMP"
BVPMSG 1073 "$PACUSERS"
BVPMSG 1007 "$PACINPUT"
. $PACDIR/config/$1/PACSAVPC.ini
PAC7PG=~BVPENV PTU921 PAC7PG `dirname $PACSAVPC\~/OLDPG`
BVPMSG 1044 PG 2.5 $PAC7PG
echo "-----"
echo ""
BVPPAUSE
$PACDIR/system/proc/SERVER $1 proc
RETURN=?
if ["$RETURN" != "0"]
then
 BVPMSG 1012 "PG25"
 BVPMSG 1037 $1
 BVPERR
 exit $RETURN
fi
BVPMKDIR

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/$1/PACSAVPC.ini
PAC7ET=~BVPENV PTU921 PAC7ET $PACUSERS/PG25ET921.txt`
export PAC7ET
PAC7GY=~BVPENV PTU921 PAC7GY $PACTMP/WGY`
export PAC7GY
PAC7GZ=~BVPENV PTU921 PAC7GZ $PACTMP/WGZ`
export PAC7GZ
PAC7MB=$PACINPUT
export PAC7MB
PAC7PG=~BVPENV PTU921 PAC7PG `dirname $PACSAVPC\~/OLDPG`
export PAC7PG
BVPMSG 1009 "BVPTU921"
rtspac BVPTU921
RETURN=?
case $RETURN in
0)
;;
*)
 BVPMSG 1012 "BVPTU921"
 BVPMSG 1025
 BVPERR
 BVPRMTMP
 exit $RETURN
;;
esac

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/ADMI/PAC7AN.ini

```

```

. $PACDIR/config/ADMI/PAC7AR.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
PAC7GY=`BVPENV PAF900 PAC7GY $PACTMP/WGZ`
export PAC7GY
PAC7ME=`BVPENV PAF900 PAC7ME $PACTMP/WME`
export PAC7ME
PAC7MV=`BVPENV PAF900 PAC7MV $PACTMP/WMV`
export PAC7MV
PAC7MW=`BVPENV PAF900 PAC7MW $PACTMP/WMW`
export PAC7MW
PAC7MX=`BVPENV PAF900 PAC7MX $PACTMP/WMX`
export PAC7MX
PAC7MY=`BVPENV PAF900 PAC7MY $PACTMP/WMY`
export PAC7MY
BVPMSG 1009 "BVPAF900"
rtspac BVPAF900
RETURN=$?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPAF900"
BVPMSG 1025
;;
esac

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/ADMI/PAC7AJ.ini
. $PACDIR/config/ADMI/PAC7AN.ini
. $PACDIR/config/ADMI/PAC7AR.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
. $PACDIR/config/$1/PAC7DC.ini
. $PACDIR/config/ADMI/SEMLOCK.ini
PAC7IE=`BVPENV PACA15 PAC7IE $PACUSERS/PG25IEADM.txt`
export PAC7IE
PAC7IF=`BVPENV PACA15 PAC7IF $PACUSERS/PG25IFADM.txt`
export PAC7IF
PAC7ME=`BVPENV PACA15 PAC7ME $PACTMP/WME`
export PAC7ME
PAC7MV=`BVPENV PACA15 PAC7MV $PACTMP/WMV`
export PAC7MV
PAC7RB=`BVPENV PACA15 PAC7RB $PACTMP/WRB`
export PAC7RB
PAC7RY=`BVPENV PACA15 PAC7RY $PACTMP/WRY`
export PAC7RY
BVPMSG 1009 "BVPACA15"
rtspac BVPACA15
RETURN=$?
case $RETURN in
0)
;;

```



```

2)
 BVPMSG 1012 "BVPACA15"
 BVPMSG 1054
 ;;
4)
 BVPMSG 1012 "BVPACA15"
 BVPMSG 1055
 ;;
*)
 BVPMSG 1012 "BVPACA15"
 BVPMSG 1025
 ;;
esac

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/$1/PAC7AN.ini
. $PACDIR/config/$1/PAC7AR.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
PAC7GY=`BVPENV PAF900 PAC7GY $PACTMP/WGY`
export PAC7GY
PAC7ME=`BVPENV PAF900 PAC7ME $PACTMP/WME`
export PAC7ME
PAC7MV=`BVPENV PAF900 PAC7MV $PACTMP/WMV`
export PAC7MV
PAC7MW=`BVPENV PAF900 PAC7MW $PACTMP/WMW`
export PAC7MW
PAC7MX=`BVPENV PAF900 PAC7MX $PACTMP/WMX`
export PAC7MX
PAC7MY=`BVPENV PAF900 PAC7MY $PACTMP/WMY`
export PAC7MY
BVPMSG 1009 "BVPAF900"
rtspac BVPAF900
RETURN=?
case $RETURN in
0)
 ;;
*)
 BVPMSG 1012 "BVPAF900"
 BVPMSG 1025
 ;;
esac

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/$1/PAC7AJ.ini
. $PACDIR/config/$1/PAC7AN.ini
. $PACDIR/config/$1/PAC7AR.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
. $PACDIR/config/$1/PAC7DC.ini
. $PACDIR/config/$1/SEMLOCK.ini
PAC7IE=`BVPENV PACA15 PAC7IE $PACUSERS/PG25IEA15.txt`
export PAC7IE

```

```

PAC7IF=~BVPENV PACA15 PAC7IF $PACUSERS/PG25IFA15.txt`
export PAC7IF
PAC7ME=~BVPENV PACA15 PAC7ME $PACTMP/WME`
export PAC7ME
PAC7MV=~BVPENV PACA15 PAC7MV $PACTMP/WMV`
export PAC7MV
PAC7RB=~BVPENV PACA15 PAC7RB $PACTMP/WRB`
export PAC7RB
PAC7RY=~BVPENV PACA15 PAC7RY $PACTMP/WRY`
export PAC7RY
BVPMSG 1009 "BVPACA15"
rtspac BVPACA15
RETURN=$?
case $RETURN in
0)
;;
2)
BVPMSG 1012 "BVPACA15"
BVPMSG 1054
BVPERR
BVPRMTMP
exit $RETURN
;;
4)
BVPMSG 1012 "BVPACA15"
BVPMSG 1055
BVPERR
BVPRMTMP
exit $RETURN
;;
*)
BVPMSG 1012 "BVPACA15"
BVPMSG 1025
BVPERR
BVPRMTMP
exit $RETURN
;;
esac

BVPMSG 1010
BVPRMTMP
exit $RETURN

```

---

## PEI Retrieval (PP25)

### PP25 - Introduction

#### PRINCIPLE

This procedure retrieves the 2.0 or 2.5 PP file, which is the sequential image of the Production Environment Interface, and updates the 3.0 development database.

## EXECUTION CONDITIONS

The development Database files must be closed in the on-line mode.

## PRINTED OUTPUT

This procedure produces a report indicating the error encountered.

## RESULT

The procedure generates a transaction file which contains the existing production environments, the list of the generated entities, the default environments (-GO of the Library), the list of production sessions in the 3.0 format, and updates the 3.0 development database.

## NOTE

Any update transactions in a session or library which is not already defined in the database will be rejected.

The PP file may contain environments with library codes or sessions to be created or purged later in the 2.0 or 2.5 Database.

### **PP25 - Input / Processing / Results**

A '\*'line with a user code and a password

If the user code is not indicated, an error message is displayed and the procedure cannot be run.

The structure of the line is presented as follows:

| Position | Length | Value    | Meaning   |
|----------|--------|----------|-----------|
| 2        | 1      | '*'      | Line code |
| 3        | 8      | uuuuuuuu | User code |
| 11       | 8      | pppppppp | Password  |

### **PP25 - Description of Steps**

INPUT RECOGNITION: PTU001

MANAGEMENT OF PRODUCTION ENVIRONMENT: PTU923

| Code   | Physical name     | Type  | Label                                           |
|--------|-------------------|-------|-------------------------------------------------|
| PAC7PP | Save dir. : OLDPP | Input | Back up of production environment (old release) |

| Code   | Physical name            | Type   | Label                                           |
|--------|--------------------------|--------|-------------------------------------------------|
| PAC7AE | System - Skel. dir. : AE | Input  | Error message                                   |
| PAC7MB | User input               | Input  | User input                                      |
| PAC7GY | Tmp dir. : WGY           | Output | Records of production environments (length=310) |
| PAC7ET | User dir. : PP25ET923    | Report | Report in case of error                         |

#### TRANSACTIONS FORMATTING: PAF900

| Code   | Physical name               | Type   | Label                                                                                                                                                                                        |
|--------|-----------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PAC7AR | Base dir.: AR               | Input  | Development Database data                                                                                                                                                                    |
| PAC7AN | Base dir.: AN               | Input  | Development Database index                                                                                                                                                                   |
| PAC7AE | System - Skel. dir.: AE     | Input  | Error messages                                                                                                                                                                               |
| PACGGR | Admin. Base - Base dir.: AR | Input  | Administration Database data                                                                                                                                                                 |
| PACGGN | Admin. Base - Base dir.: AN | Input  | Administration Database index                                                                                                                                                                |
| PACGGU | Admin. Base - Base dir.: GU | Input  | Administration Database users                                                                                                                                                                |
| PAC7GY | Tmp. dir.: WGZ              | Input  | Update transactions                                                                                                                                                                          |
| PAC7MV | Tmp. dir.: WMV              | Output | Formatted transactions (It should be able to contain all input transactions and the elementary deletion transactions which are generated by the multiple deletion transactions) (length=170) |
| PAC7ME | Tmp. dir.: WME              | Output | Work file (length=372)                                                                                                                                                                       |
| PAC7MW | Tmp dir.: WMW               | Output | Work file (length=170)                                                                                                                                                                       |
| PAC7MX | Tmp dir.: WMX               | Output | Work file (length=743)                                                                                                                                                                       |
| PAC7MY | Tmp dir.: WMY               | Output | Work file (length=743)                                                                                                                                                                       |

#### UPDATE OF THE DEVELOPMENT DATABASE: PACA15

| Code   | Physical name | Type   | Label                          |
|--------|---------------|--------|--------------------------------|
| PAC7AR | Base dir.: AR | Output | Development Database Data file |
| PAC7AN | Base dir.: AN | Output | Development Database index     |
| PAC7AY | Base dir.: AY | Output | Development Database extension |

| Code   | Physical name               | Type   | Label                                       |
|--------|-----------------------------|--------|---------------------------------------------|
| PAC7AJ | Journal dir.: AJ            | Output | Development Database journal                |
| PAC7AE | System - Skel. dir.: AE     | Input  | Error messages                              |
| PACGGN | Admin. Base - Base dir.: AN | Input  | Administration Database Index file          |
| PACGGR | Admin. Base - Base dir.: AR | Input  | Administration Database Data file           |
| PACGGY | Admin. Base - Base dir.: AY | Input  | Administration Database Extension           |
| PACGGU | Admin. Base - Base dir.: GU | Input  | Administration Database users               |
| PAC7DC | nul                         | Input  | DSMS file of Development Database Elements  |
| PAC7ME | Tmp dir.: WME               | Input  | Work file                                   |
| PAC7MV | Tmp dir.: WMV               | Input  | Update transactions                         |
| PAC7RB | nul                         | Output | UPDT erroneous transactions (length=80)     |
| PAC7RY | nul                         | Output | UPDP erroneous transactions (length=310)    |
| PAC7IE |                             | Report | Update report (length=132)                  |
| PAC7IF |                             | Report | List of erroneous transactions (length=132) |

The list of user transactions is preceded by a banner with the user code.

Return codes:

- 0: OK, no error
- 2: Warning
- 4: Critical error

## PP25 - Execution Script

```
#!/bin/sh
#@(#)VA Pac xxx xxx (R) PP25 BATCH PROCEDURE
* -----
* VISUALAGE PACBASE
*
* -----
* RETRIEVAL OF PP FILE
*
* -----
```

```

*
Parameter control
. $PACDIR/system/proc/BVPINIT.ini
echo ""
echo "-----"
BVPMSG 1004 "PP25"
echo "
=====
BVPMSG 1047 "$BVPBASE"
BVPMSG 1005 "$PACDIR/config/$1"
BVPMSG 1006 "$PACTMP"
BVPMSG 1073 "$PACUSERS"
BVPMSG 1007 "$PACINPUT"
. $PACDIR/config/$1/PACSAVPC.ini
PAC7PP=~BVPENV PTU922 PAC7PP `dirname $PACSAVPC`/OLDPP~
BVPMSG 1044 PP 2.5 $PAC7PP
echo "-----"
echo ""
BVPPAUSE
BVPMKDIR

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
. $PACDIR/config/$1/PACSAVPC.ini
PAC7PP=~BVPENV PTU922 PAC7PP `dirname $PACSAVPC`/OLDPP~
export PAC7PP
PAC7ET=~BVPENV PTU923 PAC7ET $PACUSERS/PP25ET923.txt~
export PAC7ET
PAC7GY=~BVPENV PTU923 PAC7GY $PACTMP/WGY~
export PAC7GY
PAC7MB=$PACINPUT
export PAC7MB
BVPMSG 1009 "BVPTU923"
rtspac BVPTU923
RETURN=$?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPTU923"
BVPMSG 1025
BVPERR
BVPRMTMP
exit $RETURN
;;
esac

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/$1/PAC7AN.ini
. $PACDIR/config/$1/PAC7AR.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
PAC7GY=~BVPENV PAF900 PAC7GY $PACTMP/WGY~

```

```

export PAC7GY
PAC7ME=~BVPENV PAF900 PAC7ME $PACTMP/WME~
export PAC7ME
PAC7MV=~BVPENV PAF900 PAC7MV $PACTMP/WMV~
export PAC7MV
PAC7MW=~BVPENV PAF900 PAC7MW $PACTMP/WMW~
export PAC7MW
PAC7MX=~BVPENV PAF900 PAC7MX $PACTMP/WMX~
export PAC7MX
PAC7MY=~BVPENV PAF900 PAC7MY $PACTMP/WMY~
export PAC7MY
BVPMSG 1009 "BVPAF900"
rtspac BVPAF900
RETURN=?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPAF900"
BVPMSG 1025
BVPERR
BVPRMTMP
exit $RETURN
;;
esac

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/$1/PAC7AJ.ini
. $PACDIR/config/$1/PAC7AN.ini
. $PACDIR/config/$1/PAC7AR.ini
. $PACDIR/config/$1/PAC7AY.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
. $PACDIR/config/$1/PAC7DC.ini
. $PACDIR/config/$1/SEMLOCK.ini
PAC7IE=~BVPENV PACA15 PAC7IE $PACUSERS/PP25IEA15.txt~
export PAC7IE
PAC7IF=~BVPENV PACA15 PAC7IF $PACUSERS/PP25IFA15.txt~
export PAC7IF
PAC7ME=~BVPENV PACA15 PAC7ME $PACTMP/WME~
export PAC7ME
PAC7MV=~BVPENV PACA15 PAC7MV $PACTMP/WMV~
export PAC7MV
PAC7RB=~BVPENV PACA15 PAC7RB $PACTMP/WRB~
export PAC7RB
PAC7RY=~BVPENV PACA15 PAC7RY $PACTMP/WRY~
export PAC7RY
BVPMSG 1009 "BVPACA15"
rtspac BVPACA15
RETURN=?
case $RETURN in
0)
;;
2)

```

```

BVPMSG 1012 "BVPACA15"
BVPMSG 1054
BVPERR
BVPRMTMP
exit $RETURN
;;
4)
BVPMSG 1012 "BVPACA15"
BVPMSG 1055
BVPERR
BVPRMTMP
exit $RETURN
;;
*)
BVPMSG 1012 "BVPACA15"
BVPMSG 1025
BVPERR
BVPRMTMP
exit $RETURN
;;
esac

BVPMSG 1010
BVPRMTMP
exit $RETURN

```

---

## Retrieval of Pac/Transfer Parameters (UV25)

### UV25 - Introduction

#### PRINCIPLE

The UV25 procedure retrieves the UV PacTransfer parameters file, 2.0 or 2.5 release, in the new format.

It updates the administration Database.

#### EXECUTION CONDITIONS

The administration Database files must be closed to on-line use.

#### PRINTED OUTPUT

This procedure prints a report on the errors encountered.

### UV25 - Input / Processing / Results

A '\*' line with a user code, a password and the code of the development Database concerned by the transfers.

If you do not specify the user code or the database code, an error message is sent and the procedure cannot be run.



The line structure must be as follows:

| Position | Length | Value    | Meaning       |
|----------|--------|----------|---------------|
| 2        | 1      | '*'      | Line code     |
| 3        | 8      | uuuuuuuu | User code     |
| 11       | 8      | pppppppp | Password      |
| 22       | 4      | cccc     | Database code |

## UV25 - Description of Steps

INPUT RECOGNITION: PTU001

PROCESSING OF TRANSFER PARAMETERS: PTU922

| Code   | Physical name               | Type   | Label                                           |
|--------|-----------------------------|--------|-------------------------------------------------|
| PAC7UV | Base dir.: OLDUV            | Input  | Transfer parameters, old release                |
| PAC7AE | System - Skel. dir. :<br>AE | Input  | Error messages                                  |
| PAC7MB | User input                  | Input  | User input                                      |
| PAC7GY | Tmp dir.: WGY               | Output | Transfer parameter transactions<br>(length=310) |
| PAC7ET | User dir.: UV25ET922        | Report | Report in case of error                         |

TRANSACTION FORMATTING: PAF900

| Code   | Physical name                  | Type  | Label                         |
|--------|--------------------------------|-------|-------------------------------|
| PAC7AR | Admin. Base - Base<br>dir.: AR | Input | Administration Database data  |
| PAC7AN | Admin. Base - Base<br>dir.: AN | Input | Administration Database index |
| PAC7AE | System - Skel. dir.:<br>AE     | Input | Error labels                  |
| PACGGR | Admin. Base - Base<br>dir.: AR | Input | Administration Database data  |
| PACGGN | Admin. Base - Base<br>dir.: AN | Input | Administration Database index |
| PACGGU | Admin. Base - Base<br>dir.: GU | Input | Administration Database users |
| PAC7GY | Tmp dir.: WGY                  | Input | Update transactions           |

| Code   | Physical name | Type   | Label                                                                                                                                                                    |
|--------|---------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PAC7MV | Tmp dir.: WMV | Output | Transactions formatting (should be able to contain all input transactions and the elementary cancel transactions generated by multiple cancel transactions) (length=170) |
| PAC7ME | Tmp dir.: WME | Output | Work file (length=372)                                                                                                                                                   |
| PAC7MW | Tmp dir.: WMW | Output | Work file (length=170)                                                                                                                                                   |
| PAC7MX | Tmp dir.: WMX | Output | Work file (length=743)                                                                                                                                                   |
| PAC7MY | Tmp dir.: WMY | Output | Work file (length=743)                                                                                                                                                   |

#### UPDATE OF THE ADMINISTRATION DATABASE: PACA15

| Code   | Physical name               | Type   | Label                                      |
|--------|-----------------------------|--------|--------------------------------------------|
| PAC7AR | Admin. Base - Base dir.: AR | Output | Administration Database Data file          |
| PAC7AN | Admin. Base - Base dir.: AN | Output | Administration Database Index file         |
| PAC7AY | Admin. Base - Base dir.: AY | Output | Administration Database extension          |
| PAC7AJ | Admin. Base - Base dir.: AJ | Output | Administration Database journal            |
| PAC7AE | System - Skel. dir.: AE     | Input  | Error messages                             |
| PACGGN | Admin. Base - Base dir.: AN | Input  | Administration Database Index file         |
| PACGGR | Admin. Base - Base dir.: AR | Input  | Administration Database Data file          |
| PACGGY | Admin. Base - Base dir.: AY | Input  | Administration Database Extension          |
| PACGGU | Admin. Base - Base dir.: GU | Input  | Administration Database users              |
| PAC7DC | Base dir.: DC               | Input  | DSMS file of Development Database elements |
| PAC7ME | Tmp dir.: WME               | Input  | Work file                                  |
| PAC7MV | Tmp dir.: WMV               | Input  | Update transactions                        |
| PAC7RB | nul                         | Output | UPDT erroneous transactions (length=80)    |

| Code   | Physical name | Type   | Label                                          |
|--------|---------------|--------|------------------------------------------------|
| PAC7RY | nul           | Output | UPDP erroneous transactions (length=310)       |
| PAC7IE |               | Report | Update report (length=132)                     |
| PAC7IF |               | Report | Summary of erroneous transactions (length=132) |

The list of transactions specific to a user is preceded by a banner with this user's code.

Return codes:

- 0 : OK without error
- 2 : warning error
- 4 : fatal error

## UV25 - Execution Script

```
#!/bin/sh
#@(#)VA Pac xxx xxx (R) UV25 BATCH PROCEDURE
* -----
* VISUALAGE PACBASE
*
* -----
* RETRIEVAL OF UV FILE
*
* -----
*
Parameter control
. $PACDIR/system/proc/BVPINIT.ini
echo ""
echo "-----"
BVPMSG 1004 "UV25"
echo " ====="
BVPMSG 1047 "$BVPBASE"
BVPMSG 1005 "$PACDIR/config/$1"
BVPMSG 1006 "$PACTMP"
BVPMSG 1073 "$PACUSERS"
BVPMSG 1007 "$PACINPUT"
. $PACDIR/config/$1/PAC7AR.ini
PAC7UV=`BVPENV PTU922 PAC7UV `dirname $PAC7AR`/OLDUV`
BVPMSG 1044 UV 2.5 $PAC7UV
echo "-----"
echo ""
BVPPAUSE
BVPMKDIR

. $PACDIR/config/$1/PAC7AE.ini
PAC7UV=`BVPENV PTU922 PAC7UV `dirname $PAC7AR`/OLDUV`
export PAC7UV
```

```

PAC7ET=~BVPENV PTU922 PAC7ET $PACUSERS/UV25ET922.txt`
export PAC7ET
PAC7GY=~BVPENV PTU922 PAC7GY $PACTMP/WGY`
export PAC7GY
PAC7MB=$PACINPUT
export PAC7MB
BVPMSG 1009 "BVPTU922"
rtspac BVPTU922
RETURN=$?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPTU922"
BVPMSG 1025
BVPERR
BVPRMTMP
exit $RETURN
;;
esac

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/ADMI/PAC7AN.ini
. $PACDIR/config/ADMI/PAC7AR.ini
. $PACDIR/config/ADMI/PAC7AY.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
PAC7GY=~BVPENV PAF900 PAC7GY $PACTMP/WGY`
export PAC7GY
PAC7ME=~BVPENV PAF900 PAC7ME $PACTMP/WME`
export PAC7ME
PAC7MV=~BVPENV PAF900 PAC7MV $PACTMP/WMV`
export PAC7MV
PAC7MW=~BVPENV PAF900 PAC7MW $PACTMP/WMW`
export PAC7MW
PAC7MX=~BVPENV PAF900 PAC7MX $PACTMP/WMX`
export PAC7MX
PAC7MY=~BVPENV PAF900 PAC7MY $PACTMP/WMY`
export PAC7MY
BVPMSG 1009 "BVPAF900"
rtspac BVPAF900
RETURN=$?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPAF900"
BVPMSG 1025
BVPERR
BVPRMTMP
exit $RETURN
;;
esac

```

```

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/ADMI/PAC7AJ.ini
. $PACDIR/config/ADMI/PAC7AN.ini
. $PACDIR/config/ADMI/PAC7AR.ini
. $PACDIR/config/ADMI/PAC7AY.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
. $PACDIR/config/$1/PAC7DC.ini
. $PACDIR/config/$1/SEMLOCK.ini
PAC7IE=~BVPENV PACA15 PAC7IE $PACUSERS/UV25IEA15.txt`
export PAC7IE
PAC7IF=~BVPENV PACA15 PAC7IF $PACUSERS/UV25IFA15.txt`
export PAC7IF
PAC7ME=~BVPENV PACA15 PAC7ME $PACTMP/WME`
export PAC7ME
PAC7MV=~BVPENV PACA15 PAC7MV $PACTMP/WMV`
export PAC7MV
PAC7RB=~BVPENV PACA15 PAC7RB $PACTMP/WRB`
export PAC7RB
PAC7RY=~BVPENV PACA15 PAC7RY $PACTMP/WRY`
export PAC7RY
BVPMSG 1009 "BVPACA15"
rtspac BVPACA15
RETURN=?
case $RETURN in
0)
;;
2)
BVPMSG 1012 "BVPACA15"
BVPMSG 1054
BVPERR
BVPRMTMP
exit $RETURN
;;
4)
BVPMSG 1012 "BVPACA15"
BVPMSG 1055
BVPERR
BVPRMTMP
exit $RETURN
;;
*)
BVPMSG 1012 "BVPACA15"
BVPMSG 1025
BVPERR
BVPRMTMP
exit $RETURN
;;
esac

BVPMSG 1010
BVPRMTMP
exit $RETURN

```

---

## Retrieval of MB Transactions (MB25)

### MB25 - Introduction

#### PRINCIPLE

This procedure retrieves the 2.0 or 2.5 MB transactions in the 3.0 release.

#### REQUISITES

None.

#### PRINTED OUTPUT

This procedure prints a report of the errors encountered.

#### RESULT

This procedure generates a transaction file for the 3.0 UPDT procedure and a revoked transactions file.

### MB25 - Description of Steps

#### MB FILE RETRIEVAL: PTU926

| Code   | Physical name               | Type   | Label                                |
|--------|-----------------------------|--------|--------------------------------------|
| PAC7AE | System - Skel. dir.: AE     | Input  | Error messages                       |
| PAC7AR | Base dir.: AR               | Input  | Development database data            |
| PACGGR | Admin. Base - Base dir.: AR | Input  | Administration database data         |
| PACGGN | Admin. Base - Base dir.: AN | Input  | Administration database index        |
| PACGGU | Admin. Base - Base dir.: GU | Input  | Administration database users        |
| PAC7MB | User input                  | Input  | 2.5 MB transactions                  |
| PAC7MV | User dir.: MB25MV           | Output | Retrieval transactions for UPDT      |
| PAC7ME | User dir.: MB25ME           | Output | Revoked transactions                 |
| PAC7EF | User dir.: MB25EF926        | Report | Retrieval reports                    |
| PAC7DD | User dir.: MB25DD926        | Report | Batch procedure authorization option |

### MB25 - Execution Script

```
#!/bin/sh
#@(#)VA Pac xxx xxx (R) MB25 BATCH PROCEDURE
* -----
* VISUALAGE PACBASE
*
* -----
```

```

* RETRIEVAL OF MB FILE
*
* -----
*
Parameter control
. $PACDIR/system/proc/BVPINIT.ini
echo ""
echo "-----"
BVPMSG 1004 "MB25"
echo " ====="
BVPMSG 1047 "$BVPBASE"
BVPMSG 1005 "$PACDIR/config/$1"
BVPMSG 1006 "$PACTMP"
BVPMSG 1073 "$PACUSERS"
PAC7MB=`BVPENV PTU926 PAC7MB `dirname $PACUSERS`/OLDMB`
export PAC7MB
BVPMSG 1044 MB 2.5 $PAC7MB
echo "-----"
echo ""
BVPPAUSE
BVPMKDIR

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/$1/PAC7AR.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
PAC7DD=`BVPENV PTU926 PAC7DD $PACUSERS/MB25DD926.txt`
export PAC7DD
PAC7EF=`BVPENV PTU926 PAC7EF $PACUSERS/MB25EF926.txt`
export PAC7EF
PAC7MB=`BVPENV PTU926 PAC7MB `dirname $PACUSERS`/OLDMB`
export PAC7MB
PAC7ME=`BVPENV PTU926 PAC7ME $PACUSERS/MB25ME`
export PAC7ME
PAC7MV=`BVPENV PTU926 PAC7MV $PACUSERS/MB25MV`
export PAC7MV
BVPMSG 1009 "BVPTU926"
rtspac BVPTU926
RETURN=?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPTU926"
BVPMSG 1025
BVPERR
BVPRMTMP
exit $RETURN
;;
esac

BVPMSG 1010
BVPRMTMP
exit $RETURN

```

---

## Retrieval of GY Transactions (GY25)

### GY25 - Introduction

#### PRINCIPLE

This procedure retrieves the 2.0 or 2.5 GY transactions and formats them in the 3.0 release format.

#### REQUISITES

None.

#### PRINTED OUTPUT

This procedure prints a report of the errors encountered.

#### RESULT

This procedure generates a transaction file for the 3.0 UPDP procedure and a revoked transactions file.

### GY25 - Description of Steps

#### GY FILE RETRIEVAL: PTU927

| Code   | Physical name                  | Type   | Label                           |
|--------|--------------------------------|--------|---------------------------------|
| PAC7AE | System - Skel. dir.: AE        | Input  | Error messages                  |
| PAC7AR | Base dir.: AR                  | Input  | Development database data       |
| PACGGR | Admin. Base - Base dir.:<br>AR | Input  | Administration database data    |
| PACGGN | Admin. Base - Base dir.:<br>AN | Input  | Administration database index   |
| PACGGU | Admin. Base - Base dir.:<br>GU | Input  | Administration database users   |
| PAC7GY | User input                     | Input  | 2.5 GY transactions             |
| PAC7MV | User dir.: GY25MV              | Output | Retrieval transactions for UPDP |
| PAC7ME | User dir.: GY25ME              | Output | Revoked transactions            |
| PAC7EF | User dir.: GY25EF927           | Report | Retrieval reports               |
| PAC7DD | User dir.: GY25DD927           | Report | Authorization option            |

### GY25 - Execution Script

```
#!/bin/sh
#@(#)VA Pac xxx xxx (R) GY25 BATCH PROCEDURE
* -----
```



```

* VISUALAGE PACBASE
*
* -----
* RETRIEVAL OF GY FILE
*
* -----
*
Parameter control
. $PACDIR/system/proc/BVPINIT.ini
echo ""
echo "-----"
BVPMSG 1004 "GY25"
echo " ====="
BVPMSG 1047 "$BVPBASE"
BVPMSG 1005 "$PACDIR/config/$1"
BVPMSG 1006 "$PACTMP"
BVPMSG 1073 "$PACUSERS"
PAC7GY=`BVPENV PTU927 PAC7GY `dirname $PACUSERS`~/OLDGY`
export PAC7GY
BVPMSG 1044 GY 2.5 $PAC7GY
echo "-----"
echo ""
BVPPAUSE
BVPMKDIR

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/$1/PAC7AR.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
PAC7DD=`BVPENV PTU927 PAC7DD $PACUSERS/GY25DD927.txt`
export PAC7DD
PAC7EF=`BVPENV PTU927 PAC7EF $PACUSERS/GY25EF927.txt`
export PAC7EF
PAC7GY=`BVPENV PTU927 PAC7GY `dirname $PACUSERS`~/OLDGY`
export PAC7GY
PAC7ME=`BVPENV PTU927 PAC7ME $PACUSERS/GY25ME`
export PAC7ME
PAC7MV=`BVPENV PTU927 PAC7MV $PACUSERS/GY25MV`
export PAC7MV
BVPMSG 1009 "BVPTU927"
rtspac BVPTU927
RETURN=?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPTU927"
BVPMSG 1025
BVPERR
BVPRTMP
exit $RETURN
;;
esac

```

```

BVPMSG 1010
BVPRMTMP
exit $RETURN
```

---

## Retrieval of MB Transactions (MB30)

### MB30 - Introduction

#### PRINCIPLE

This procedure retrieves the 3.0 MB transactions and formats them in the 2.0 or 2.5 format.

#### REQUISITES

None.

#### PRINTED OUTPUT

This procedure prints a report of the errors encountered.

#### RESULT

This procedure generates a transaction file for the 2.0 or 2.5 UPDT procedure and a revoked transactions file.

### MB30 - Description of Steps

#### MB FILE RETRIEVAL: PTU928

| Code   | Physical name               | Type   | Label                           |
|--------|-----------------------------|--------|---------------------------------|
| PAC7AE | System - Skel dir. : AE     | Input  | Error messages                  |
| PAC7AR | Base dir. : AR              | Input  | Development database data       |
| PACGGR | Admin Base - Base dir. : AR | Input  | Administration database data    |
| PACGGN | Admin Base - Base dir. : AN | Input  | Administration database index   |
| PACGGU | Admin Base - Base dir. : GU | Input  | Administration database users   |
| PAC7MB | User input                  | Input  | 3.0 MB transactions             |
| PAC7MV | User dir. : MB30MV          | Output | Retrieval transactions for UPDT |
| PAC7ME | User dir. : MB30ME          | Output | Revoked transactions            |
| PAC7EF | User dir. : MB30EF928       | Report | Retrieval reports               |
| PAC7DD | User dir. : MB30DD928       | Report | Authorization option            |

## MB30 - Execution Script

```
#!/bin/sh
#@(#)VA Pac xxx xxx (R) MB30 BATCH PROCEDURE
* -----
* VISUALAGE PACBASE
*
* -----
* RETRIEVAL OF MB FILE
*
* -----
*
Parameter control
. $PACDIR/system/proc/BVPINIT.ini
echo ""
echo "-----"
BVPMSG 1004 "MB30"
echo " ====="
BVPMSG 1047 "$BVPBASE"
BVPMSG 1005 "$PACDIR/config/$1"
BVPMSG 1006 "$PACTMP"
BVPMSG 1073 "$PACUSERS"
PAC7MB=`BVPENV PTU928 PAC7MB \dirname $PACUSERS\`/OLDMB`
export PAC7MB
BVPMSG 1044 MB 2.5 $PAC7MB
echo "-----"
echo ""
BVPPAUSE
BVPMKDIR

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/$1/PAC7AR.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
PAC7DD=`BVPENV PTU928 PAC7DD $PACUSERS/MB30DD928.txt`
export PAC7DD
PAC7EF=`BVPENV PTU928 PAC7EF $PACUSERS/MB30EF928.txt`
export PAC7EF
PAC7MB=`BVPENV PTU928 PAC7MB \dirname $PACUSERS\`/OLDMB`
export PAC7MB
PAC7ME=`BVPENV PTU928 PAC7ME $PACUSERS/MB30ME`
export PAC7ME
PAC7MV=`BVPENV PTU928 PAC7MV $PACUSERS/MB30MV`
export PAC7MV
BVPMSG 1009 "BVPTU928"
rtspac BVPTU928
RETURN=?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPTU928"
BVPMSG 1030
BVPERR
BVPRTMP
```

```

exit $RETURN
;;
esac

BVPMSG 1010
BVPRMTMP
exit $RETURN

```

---

## Retrieval of GY Transactions (GY30)

### GY30 - Introduction

#### PRINCIPLE

This procedure retrieves the 3.0 GY transactions and formats them in the 2.0 or 2.5 format.

#### REQUISITES

None.

#### PRINTED OUTPUT

This procedure prints a report of the errors encountered.

#### RESULT

This procedure generates a transaction file for the 2.0 or 2.5 UPDP procedure and a revoked transactions file.

### GY30 - Description of Steps

#### GY FILE RETRIEVAL: PTU929

| Code   | Physical name               | Type   | Label                           |
|--------|-----------------------------|--------|---------------------------------|
| PAC7AE | System - Skel dir. : AE     | Input  | Error messages                  |
| PAC7AR | Base dir. : AR              | Input  | Development database data       |
| PACGGR | Admin Base - Base dir. : AR | Input  | Administration database data    |
| PACGGN | Admin Base - Base dir. : AN | Input  | Administration database index   |
| PACGGU | Admin Base - Base dir. : GU | Input  | Administration database users   |
| PAC7GY | User input                  | Input  | 3.0 GY transactions             |
| PAC7MV | User dir. : GY30MV          | Output | Retrieval transactions for UPDP |
| PAC7ME | User dir. : GY30ME          | Output | Revoked transactions            |
| PAC7EF | User dir. : GY30EF929       | Report | Retrieval reports               |
| PAC7DD | User dir. : GY30DD929       | Report | Authorization option            |

## GY30 - Execution Script

```
#!/bin/sh
#@(#)VA Pac xxx xxx (R) GY30 BATCH PROCEDURE
* -----
* VISUALAGE PACBASE
*
* -----
* RETRIEVAL OF GY FILE
*
* -----
*
Parameter control
. $PACDIR/system/proc/BVPINIT.ini
echo ""
echo "-----"
BVPMSG 1004 "GY30"
echo " ====="
BVPMSG 1047 "$BVPBASE"
BVPMSG 1005 "$PACDIR/config/$1"
BVPMSG 1006 "$PACTMP"
BVPMSG 1073 "$PACUSERS"
PAC7GY=`BVPENV PTU929 PAC7GY `dirname $PACUSERS`/OLDGY`
export PAC7GY
BVPMSG 1044 GY 2.5 $PAC7GY
echo "-----"
echo ""
BVPPAUSE
BVPMKDIR

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/$1/PAC7AR.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
PAC7DD=`BVPENV PTU929 PAC7DD $PACUSERS/GY30DD929.txt`
export PAC7DD
PAC7EF=`BVPENV PTU929 PAC7EF $PACUSERS/GY30EF929.txt`
export PAC7EF
PAC7GY=`BVPENV PTU929 PAC7GY `dirname $PACUSERS`/OLDGY`
export PAC7GY
PAC7ME=`BVPENV PTU929 PAC7ME $PACUSERS/GY30ME`
export PAC7ME
PAC7MV=`BVPENV PTU929 PAC7MV $PACUSERS/GY30MV`
export PAC7MV
BVPMSG 1009 "BVPTU929"
rtspac BVPTU929
RETURN=?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPTU929"
BVPMSG 1030
BVPERR
BVPRTMP
```

```
 exit $RETURN
;;
esac

BVPMMSG 1010
BVPRMTMP
exit $RETURN
```

---

## Retrieval of journal file PJ (PJ25)

### PJ25 - Introduction

#### PRINCIPLE

This procedure (PJ25) is used to change the PJ file, which is a journal file (transactions sequential file), into a new archival file in a 3.0 format.

#### PREREQUISITES

None.

#### PRINTED OUTPUT

This procedure generates a transaction file indicating the number of transactions retrieved in their initial format 2.n, and the number of transactions converted in a 3.0 format.

#### RESULT

This procedure generates a PJ journal file in a 3.0 format.

#### COMMENTS

This conversion process of the journal is optional. It should be executed if required by the batch procedures (Use of Pac/Transfer).

This retrieval procedure must be used only for conversion from a 2.0 or 2.5 version into a 3.0 version.

Sometimes, to retrieve some transactions, it is necessary to search for information in a 3.0 database. But it is possible that such information no longer exist in the new database (example: session or library deleted). In such a case, the old transaction is retrieved with its 2.n format.

## PJ25 - Description of steps

### PROCESSING OF PJ TRANSACTIONS SEQUENTIAL FILE: PTU918

| Code   | Physical name              | Type   | Label                                        |
|--------|----------------------------|--------|----------------------------------------------|
| PAC7PJ | Save dir.: OLDPJ           | Input  | journal file old version                     |
| PAC7AE | System - skel. dir.:<br>AE | Input  | Error messages                               |
| PAC7AR | Base dir.: AR              | Input  | Development Database data                    |
| PAC7AN | Base dir.: AN              | Input  | Development Database index                   |
| PAC7AY | Base dir.: AY              | Input  | Development Database extension<br>data       |
| PAC7JP | Save dir.: PJ              | Sortie | Journal file in a 3.0 format<br>(length=170) |
| PAC7ET | User dir.: PJ25ET918       | Report | Report                                       |

## PJ25 - Execution JCL

```
#!/bin/sh
#@(#)VA Pac xxx xxx (R) PJ25 BATCH PROCEDURE
* -----
* VISUALAGE PACBASE
*
* -----
* RETRIEVAL OF PJ FILE
*
* -----
*
Parameter control
. $PACDIR/system/proc/BVPINIT.ini
echo ""
echo "-----"
BVPMSG 1004 "PJ25"
echo " ====="
BVPMSG 1047 "$BVPBASE"
BVPMSG 1005 "$PACDIR/config/$1"
BVPMSG 1006 "$PACTMP"
BVPMSG 1073 "$PACUSERS"
. $PACDIR/config/$1/PACSAVPJ.ini
PAC7PJ=`BVPENV PTU918 PAC7PJ `dirname $PACSAVPJ`~/PJ25`
BVPMSG 1044 PJ 2.5 $PAC7PJ
echo "-----"
echo ""
BVPPAUSE
BVPMKDIR

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/$1/PAC7AR.ini
. $PACDIR/config/$1/PAC7AN.ini
. $PACDIR/config/$1/PAC7AY.ini
PAC7ET=`BVPENV PTU918 PAC7ET $PACUSERS/PJ25ET918.TXT`
```

```

EXPORT PAC7ET
. $PACDIR/config/$1/PACSAVPJ.ini
PAC7JP=~BVPENV PTU918 PAC7JP $PACSAVPJ~
export PAC7JP
PAC7PJ=~BVPENV PTU918 PAC7PJ `dirname $PACSAVPJ`/PJ25~
export PAC7PJ
BVPMSG 1009 "BVPTU918"
rtspac BVPTU918
RETURN=$?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPTU918"
BVPMSG 1025
BVPERR
BVPRMTMP
exit $RETURN
;;
esac

BVPMSG 1010
BVPRMTMP
exit $RETURN

```

---

## Procedures - Summary Table of Changes

### LIST OF NEW PROCEDURES

| Procedure | Comments                                       |
|-----------|------------------------------------------------|
| ARCH      | Archiving Administration Database              |
| ARPM      | Archivage du journal du Pont générique         |
| INAE      | Initialization of the error messages file (AE) |
| INGU      | Initialization of the user codes files (GU)    |
| REOR      | Re-organization of Administration Database     |
| REST      | Restoration of Administration Database         |
| PACS      | Backup of Administration Database              |
| VINS      | Update of Administration Model                 |
| PACS      | Management of development Database             |
|           |                                                |
| GY25      | Retrieval of GY file for UPDP                  |
| MB25      | Retrieval of MB file for UPDT                  |
| GY30      | Retrieval of GY file for UPDP PDT to 2.5       |
| MB30      | Retrieval of MB file for UPDT PDT to 2.5       |
| PC25      | Retrieval of development Database              |



| Procedure | Comments                                                         |
|-----------|------------------------------------------------------------------|
| PE25      | Retrieval of user parameters (PE)                                |
| PG20      | Retrieval of 2.0 generation-print commands (PG)                  |
| PG25      | Retrieval of 2.5 generation-print commands (PG)                  |
| PJ25      | Retrieval of journal 2.5                                         |
| UV25      | Retrieval of PacTransfer parameters (UV)                         |
| PP25      | Retrieval of PEI environment (PP)                                |
| ARPM      | Archivage du journal Interface Va Pac - Gestion de configuration |
| CHPM      | Environment and Database elements check report                   |
| CPPM      | Comparison between Database and user configuration               |
| EXPM      | Extraction of environments                                       |
| HIPM      | Implementation of elements                                       |
| SIPM      | Generation simulation                                            |
| TRED      | PacTransfer: print of parameters                                 |

#### LIST OF PROCEDURES SUPPRESSED SINCE 2.5 RELEASE

| Procedure | Program       | Comments                     |
|-----------|---------------|------------------------------|
| CPSN      | PTU850 PTU855 | Integrated in PACX procedure |
| EMSN      | PTU810        |                              |
| MESN      | PTU815        |                              |
| MLIB      | PTU100 PTU120 | Integrated in PACS procedure |
| SASN      | PTU130 PTU140 | Integrated in PACS procedure |
| SAVE      | PTU500        | Integrated in PACS procedure |
| UXSR      | UTIXSR        | Integrated in PACS procedure |
| CRYP      | PACU99        |                              |
| PARM      | PACU15 PACU80 |                              |
| LOAE      | PACU80        |                              |
| REAG      | PTU560        |                              |
| SVAG      | PTU550        |                              |
| GET0      | PACT11        |                              |
| GET1      | PACT41        |                              |
| GET2      | PACT41 PACT51 |                              |
| GRPE      | PACR40        |                              |
| INPE      | PACR01        |                              |

| <b>Procedure</b> | <b>Program</b>       | <b>Comments</b> |
|------------------|----------------------|-----------------|
| PP16             | PACR90               |                 |
| PRPE             | PACR10               |                 |
| RSPE             | PACR61               |                 |
| SVPE             | PACR60               |                 |
| RVDE             | PREI00 PRE986        |                 |
| RVKE             | PREI40 PREI50        |                 |
| TRRT             | REUV802 PTUG90       |                 |
| VDWN             | PVA100 PVA110        |                 |
| VPUR             | PVA400               |                 |
| VPU1             | PVA300 PVA305 PVA310 |                 |
| VPU2             | PVA320               |                 |
|                  |                      |                 |
| LVBL             | PTULVB               |                 |
| QREO             | PTUN00 PTUN10 PTUN40 |                 |
|                  |                      |                 |
| RPPG             | PTU908               |                 |
| RPTD             | PTAR20               |                 |

---

## Chapter 8. Components

---

### Server Environment Components

#### Introduction

One of the purposes of the product is to manage permanent data in either batch or on-line mode, by using two types of resources:

- Directories in which the programs which make up the system, and the parameters required to run the system, are stored:
- Permanent files, containing the data handled by the programs defined previously. These files can be classified into two categories:
  - System files, which are not linked to a particular development Database and remain relatively unchanged,
  - Evolving files which are associated to a development Database and whose volumes vary according to the updates performed.

#### On-Line Documentation

Besides the libraries described in the preceding subchapters, the VA PAC system includes the AE file which contains the error messages and on-line documentation.

#### Generation Skeletons

The product also includes the following files:

- A skeleton generation file (SC file) used by the Batch generator function.
- A skeleton generation file (SG file) used by the On-Line Systems Development and Database generator functions.
- A skeleton generation file (SN file) used by the eBusiness generator function.
- A skeleton generation file (SR file), used by the Reverse generator function.
- A skeleton generation file (SP file) used by the PAF function for the generation of extractors:
  - A skeleton file (SF file) used by the PAF function for the generation of extractors.
  - A skeleton generation file (SS file), used by the eBusiness generator function.

#### Administration Database

##### Administration Database Files

- Data file, AR.
- Extension data file, AY.

- Index file, AN.
- Journal file, AJ.
- User file, GU.
- Journal file of Standard Bridge QJ

### **Administration Database Backup**

The administration Database backup consists of two sequential generation files.

- Backup of the Database (PE).

This is a backup file of the administration Database components: index (AN), Data (AR) and extension (AY) in a sequential format.

- Backup of the journal (PJ).

The purpose of this file is to store all update transactions that have affected the administration Database since its installation and that have passed through the transactions file (AJ).

When the size of this file becomes incompatible with operation requirements, the ARCH procedure enables you to split it into several files, among which only the most recent one is used on a regular basis.

## **Development Database**

### **Development Database Files**

The VA Pac Database files contain all data related to applications development.

- The Data file (AR).
- The extension data file (AY).
- The index file (AN).
- The journal file (AJ).

All the transactions performed on the database in batch or on-line mode are saved for two reasons:

- To allow database restoration if the system standard securities were to fail.
- This information may be used for statistical purposes.

These transactions are usually stored in the transactions backup file (PJ). The transactions file is used temporarily, between the moment transactions are processed by the system and the moment they are saved on their final storage medium by the ARCH procedure.

## **Development Database Backup Files**

According to the organization option taken into account during restoration, the Database backup is either made of two sequential generation files (PC and PJ) or of four sequential generation files (PC, PD, PY and PJ).

- Database or Data backup (PC).

This is a sequential backup file of the Development Database components (Data (AR), Index (AN), and extension (AY))

- The backup of the Development Database index (PD).
- The backup of the Development Database extension data (PY).
- Journal backup (PJ)

The purpose of this file is to store all the update transactions performed in the development Database since its installation, and that have passed through the transactions file (AJ).

When the size of this file becomes incompatible with operation requirements, the ARCH procedure enables you to split it into several files, among which only the most recent one is used on a regular basis.

## **Modules - Specific Files**

### **Pac/Impact:**

- File of already-impacted criteria (FQ).
- Search criteria or entry points file (FH).
- Reduced file of criteria for purge (FR).
- Impact result file (FO).
- File of entities to be analysed (FP).

### **DSMS:**

When the DSMS function (refer to the 'DSMS' manual) is available on site, a DSMS file is accessed for each development database, in batch and on-line modes.

This file contains the list of the entities concerned by each change. The change number is entered by the user on the Database sign-on screen.

- The DSMS file of the development Database elements (DC)

This file is allocated and initialized at the time of the installation of the DSMS Function.

The definition supplied when installing VA Pac must be used if the DSMS has not been installed on the site yet.

**PAF:**

- PAF work file (PA) for PAF-TP and PUF-TP.

All the user on-line programs which access Databases with the same root need an indexed work file to use the PAF and PUF functions.

- Work file for PAF in batch mode

All the user batch programs need an indexed work file to use the PAF function. This file is allocated for the job duration and is destroyed at the end of the job.

**PAF EXTENSION**

Extraction master path file (GS), containing the user's extractors and macro-commands.

**Complementary Libraries and Files**

The Dictionary complement files are automatically located in the \SYS\SKEL directory.

- VINS procedures:
  - BVMETAD file which contains the Meta-Entities for the Administration Database.
  - BVMETBA file which contains the Meta-Entities for the Development Database.

---

## Chapter 9. Appendix

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### Installation of the Administration Database Model

#### VINS - Introduction

The VINS procedure performs the batch update of the Administration Database using transactions provided by IBM.

#### EXECUTION CONDITIONS

The database must be closed to on-line processing.

#### ABNORMAL EXECUTIONS

Refer to Chapter 'Batch Procedures', Subchapter 'Abnormal Executions' of the Administrator's Guide.

When an abend occurs during the execution of the BVPACI30 or BVPACI40 program, the Database is no longer consistent.

Once the problem has been solved, the Database must be reloaded with a retrieval of archived transactions and the VINS procedure must be executed again.

#### VINS - Input / Processing / Results

The VINS procedure requires two types of user input:

- A line which contains the User ID as well as the operation to perform,
- The transactions which enable the creation of IBM Meta-Entities and the retrieval of client User Entities with the 'extension' format: the user should never modify the content of these transactions.

The structure of the line is the following:

| Position | Length | Value    | Meaning                           |
|----------|--------|----------|-----------------------------------|
| 2        | 1      | '*'      | Line code                         |
| 3        | 8      | uuuuuuuu | User code                         |
| 11       | 8      | pppppppp | Password                          |
| 19       | 3      | '***'    | Library code                      |
| 29       | 4      | 'VINS'   |                                   |
| 33       | 1      | 'I'      | Installation of IBM Meta-Entities |

## PRINTED OUTPUT

The procedure outputs:

- a report listing the executed programs,
- the list of requests with the errors detected if any,
- a report of the updates performed by the installation.

## RESULT

Once the update is performed, the network is ready for either on line or batch use.

## NOTE

Extracted transactions to be used by the REOR procedure must be copied in a catalogued file by taking the comment line into account.

## **VINS - Description of Steps**

### UPDATE OF THE ADMINISTRATION DATABASE : VINS

| <b>Code</b> | <b>Physical name</b>             | <b>Type</b>  | <b>Label</b>                         |
|-------------|----------------------------------|--------------|--------------------------------------|
| PAC7AE      | System - skel. dir.:<br>AE       | Input        | error labels                         |
| PACGGN      | Admin. Base - Base<br>dir.: AN   | Input        | Administration Database Index        |
| PACGGR      | Admin. Base - Base<br>dir.: AR   | Input        | Administration Database Data         |
| PACGGY      | Admin. Base - Base<br>dir.: AY   | Input        | Administration Database<br>Extension |
| PACGGU      | Admin. Base - Base<br>dir.: GU   | Input        | Administration Database Users        |
| PAC7AJ      | Journal directory: AJ            | Input        | Administration Database Journal      |
| PAC7AN      | Admin. Base - Base<br>dir.: AN   | Input        | Administration Database Index        |
| PAC7AR      | Admin. Base - Base<br>dir.: AR   | Input        | Administration Database Data         |
| PAC7AY      | Admin. Base - Base<br>dir.: AY   | Input        | Administration Database<br>Extension |
| PAC7MA      | System - skel. dir.:<br>BVPMETAD | Input        | IBM Meta-Entities Transactions       |
| PAC7MB      | User input                       | Input        | User Input                           |
| PAC7BM      | Tmp dir.: WBM                    | Input/Output | Work file                            |



| Code   | Physical name     | Type         | Label                                                  |
|--------|-------------------|--------------|--------------------------------------------------------|
| PAC7WD | Tmp dir.: WWD     | Input/Output | Extracted Transactions                                 |
| PAC7ES | Tmp dir.: WES     | Input/Output | Extracted Transactions                                 |
| PAC7TD | Tmp dir.: WTD     | Input/Output | Extracted Transactions                                 |
| PAC7MR | Tmp dir.: WMR     | Output       | Extracted Transactions for REOR on Administration Base |
| PAC7MX | nul               | Output       | Non extracted entities                                 |
| PAC7IA | User dir.: VINGIA | Report       | General Report of Programs sequence                    |
| PAC7EE | User dir.: VINGEE | Report       | Report                                                 |
| PAC7EQ | User dir.: VINGEQ | Report       | Report                                                 |
| PAC7EU | User dir.: VINGEU | Report       | Report                                                 |
| PAC7ER | User dir.: VINGER | Report       | Report                                                 |
| PAC7EZ | User dir.: VINGEZ | Report       | Report                                                 |
| PAC7DD | User dir.: VINGDD | Report       | Report                                                 |
| PAC7IE | User dir.: VINGIE | Report       | Report                                                 |
| PAC7IF | User dir.: VINGIF | Report       | Report                                                 |
| PAC7IG | User dir.: VINGIG | Report       | Report                                                 |
| PAC7IH | User dir.: VINGIH | Report       | Report                                                 |

Return codes:

- 0: No error
- 4: Warning
- 8: No access authorization for batch procedure or invalid database (in such a case, restart the procedure with 'D' in column 16)
- 12: Input-output error on a file.

## VINS - Execution Script

```
#!/bin/sh
#@(#)VA Pac xxx xxx (R) VINS BATCH PROCEDURE
* -----
* VISUALAGE PACBASE
*
* -----
* - DICTIONARY UPDATING WITH IBM MODEL DEVPT -
*
* -----
*
* THE VINS PROCEDURE PERFORMS A BATCH UPDATE OF THE
* DATABASE, BASED ON TRANSACTIONS PROVIDED.
*
```

```

* INPUT :
* - USER IDENTIFICATION LINE (REQUIRED)
* COL 2 : '*'
* COL 3 : USERIDXX
* COL 11 : PASSWORD
* COL 29 : 'VINS'
* COL 33 : 'I' - INSTALLATION OF IBM META-ENTITIES
* 'R' - RETRIEVAL OF USER ENTITIES WITH THE
* 'EXTENSION' FORMAT
* ' ' 'I' + 'R'
* -----
*
Parameter control
. $PACDIR/system/proc/BVPINIT.ini
echo ""
echo "-----"
BVPMSG 1004 "VINS"
echo " ====="
BVPMSG 1047 "$BVPBASE"
BVPMSG 1005 "$PACDIR/config/$1"
BVPMSG 1006 "$PACTMP"
BVPMSG 1073 "$PACUSERS"
BVPMSG 1007 "$PACINPUT"
. $PACDIR/config/$1/PAC7AJ.ini
BVPMSG 1015 "`dirname $PAC7AJ.`"
echo "-----"
echo ""
BVPPAUSE
$PACDIR/system/proc/SERVER $1 proc
RETURN=$?
if ["$RETURN" != "0"]
then
 BVPMSG 1012 "VINS"
 BVPMSG 1037 $1
 BVPERR
 exit $RETURN
fi
BVPMKDIR

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/$1/PAC7AJ.ini
. $PACDIR/config/$1/PAC7AN.ini
. $PACDIR/config/$1/PAC7AR.ini
. $PACDIR/config/$1/PAC7AY.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
. $PACDIR/config/$1/PACGGY.ini
PAC7BM=`BVPENV PVINS PAC7BM $PACTMP/WBM`
export PAC7BM
PAC7DD=`BVPENV PVINS PAC7DD $PACUSERS/VINSDDINS.txt`
export PAC7DD
PAC7EE=`BVPENV PVINS PAC7EE $PACUSERS/VINSEEINS.txt`
export PAC7EE
PAC7EQ=`BVPENV PVINS PAC7EQ $PACUSERS/VINSEQINS.txt`

```

```

export PAC7EQ
PAC7ER=~BVPENV PVINS PAC7ER $PACUSERS/VINSERINS.txt~
export PAC7ER
PAC7ES=~BVPENV PVINS PAC7ES $PACTMP/WES~
export PAC7ES
PAC7EU=~BVPENV PVINS PAC7EU $PACUSERS/VINSEUINS.txt~
export PAC7EU
PAC7EZ=~BVPENV PVINS PAC7EZ $PACUSERS/VINSEZINS.txt~
export PAC7EZ
PAC7IA=~BVPENV PVINS PAC7IA $PACUSERS/VINSIAINS.txt~
export PAC7IA
PAC7IE=~BVPENV PVINS PAC7IE $PACUSERS/VINSIEINS.txt~
export PAC7IE
PAC7IF=~BVPENV PVINS PAC7IF $PACUSERS/VINSIFINS.txt~
export PAC7IF
PAC7IG=~BVPENV PVINS PAC7IG $PACUSERS/VINSIGINS.txt~
export PAC7IG
PAC7IH=~BVPENV PVINS PAC7IH $PACUSERS/VINSIHINS.txt~
export PAC7IH
. $PACDIR/config/$1/PACVINS.ini
PAC7MA=$PACVINS
export PAC7MA
PAC7MB=$PACINPUT
export PAC7MB
PAC7MR=~BVPENV PVINS PAC7MR $PACTMP/WMR~
export PAC7MR
PAC7MX=~BVPENV PVINS PAC7MX $PACTMP/WMX~
export PAC7MX
PAC7TD=~BVPENV PVINS PAC7TD $PACUSERS/TD.txt~
export PAC7TD
PAC7WD=~BVPENV PVINS PAC7WD $PACTMP/WWD~
export PAC7WD
SYSEXT=~BVPENV PVINS SYSEXT $PACTMP/WSY~
export SYSEXT
BVPMSG 1009 "BVPVINS"
rtspac BVPVINS
RETURN=?
case $RETURN in
0)
;;
4)
BVPMSG 1008 $PACUSERS
;;
*)
BVPMSG 1012 "BVPVINS"
BVPMSG 1025
BVPERR
BVPRMTMP
exit $RETURN
;;
esac

BVPMSG 1010
BVPRMTMP
exit $RETURN

```

---

## Installation of the Development Database Model

### VINS - Introduction

The VINS procedure performs the batch update of the network using transactions provided by IBM.

Entities are created in inter-Library mode and in the 0001Z session. They can thus be accessed from any Library of the network and from any session.

### EXECUTION CONDITIONS

The database must be closed to on-line processing.

### ABNORMAL EXECUTIONS

Refer to Chapter 'Batch Procedures', Subchapter 'Abnormal Executions' of the Administrator's Guide.

When an abend occurs during the execution of the BVPACI30 or BVPACI40 programs, the Database is no longer consistent.

Once the problem has been solved, the Database must be reloaded with a retrieval of archived transactions and the VINS procedure must be executed again.

### VINS - Input / Processing / Results

The VINS procedure requires two types of user input:

- a line which contains the User ID as well as the operation to perform,
- the transactions which enable the creation of IBM Meta-Entities and the retrieval of client User Entities with the 'extension' format: the user should never modify the content of these transactions.

The structure of the line is the following:

| Position | Length | Value    | Meaning                                                |
|----------|--------|----------|--------------------------------------------------------|
| 2        | 1      | '**'     | Line code                                              |
| 3        | 8      | uuuuuuuu | User code                                              |
| 11       | 8      | pppppppp | Password                                               |
| 19       | 3      | '***'    | Library code                                           |
| 29       | 4      | 'VINS'   |                                                        |
| 33       | 1      | 'I'      | Installation of IBM Meta-Entities                      |
|          |        | 'R'      | Retrieval of User Entities with the 'extension' format |

| Position | Length | Value | Meaning   |
|----------|--------|-------|-----------|
|          |        | ' '   | 'T' + 'R' |

### PRINTED OUTPUT

The procedure prints

- a report listing the executed programs,
- the list of requests with the errors detected if any,
- a report of the updates performed by the installation,
- a report of the updates performed by the retrieval,

### RESULT

Once the update is performed, the network is ready for either on-line or batch use.

For the retrieval, a sequential file of purge transactions for the reorganization procedure is generated. After the retrieval, the reorganization of the Database is required.

### NOTE

Extracted transactions to be used in input by the REOR procedure must be copied in a cataloged file.

## **VINS - Description of Steps**

### UPDATE OF THE NETWORK: VINS

| Code   | Physical name                  | Type  | Label                                |
|--------|--------------------------------|-------|--------------------------------------|
| PAC7AE | System - Skel. dir.:<br>AE     | Input | Error Labels                         |
| PACGGN | Admin. Base - Base<br>dir.: AN | Input | Administration Database Index        |
| PACGGR | Admin. Base - Base<br>dir.: AR | Input | Administration Database Data         |
| PACGGY | Admin. Base - Base<br>dir.: AY | Input | Administration Database<br>Extension |
| PACGGU | Admin. Base - Base<br>dir.: GU | Input | Administration Database Users        |
| PAC7AJ | Journal dir.: AJ               | Input | Development Database Journal         |
| PAC7AN | Base dir.: AN                  | Input | Development Database Index           |

| Code   | Physical name                    | Type         | Label                                     |
|--------|----------------------------------|--------------|-------------------------------------------|
| PAC7AR | Base dir.: AR                    | Input        | Development Database Data                 |
| PAC7AY | Base dir.: AY                    | Input        | Development Database Extension            |
| PAC7MA | System - skel. dir.:<br>BVPMETBA | Input        | IBM Meta-Entities Transactions            |
| PAC7MB | User input                       | Input        | User Input                                |
| PAC7BM | Tmp dir.: WBM                    | Input/Output | User input                                |
| PAC7WD | Tmp dir.: WWD                    | Input/Output | Extracted Transactions                    |
| PAC7ES | Tmp dir.: WES                    | Input/Output | Extracted Transactions                    |
| PAC7TD | Tmp dir.: WTD                    | Input/Output | Extracted Transactions                    |
| PAC7MR | Tmp dir.: WMR                    | Output       | Extracted Transactions for REOR           |
| PAC7MX | nul                              | Output       | Non extracted entities                    |
| PAC7IA | User dir.: VINSIA                | Report       | Complete printing of programs<br>sequence |
| PAC7EE | User dir.: VINSEE                | Report       | Report                                    |
| PAC7EQ | User dir.: VINSEQ                | Report       | Report                                    |
| PAC7EU | User dir.: VINSEU                | Report       | Report                                    |
| PAC7ER | User dir.: VINSER                | Report       | Report                                    |
| PAC7EZ | User dir.: VINSEZ                | Report       | Report                                    |
| PAC7DD | User dir.: VINSDD                | Report       | Report                                    |
| PAC7IE | User dir.: VINSIE                | Report       | Report                                    |
| PAC7IF | User dir.: VINSIF                | Report       | Report                                    |
| PAC7IG | User dir.: VINSIG                | Report       | Report                                    |
| PAC7IH | User dir.: VINSIH                | Report       | Report                                    |

Return codes:

- 0 : No error detected on files
- 4 : Correct the anomaly and restart the procedure
- 8: No access authorization for batch procedure
- 12: Input-output error on a file

### VINS - Execution Script

```
#!/bin/sh
#@(#)VA Pac xxx xxx (R) VINS BATCH PROCEDURE
* -----
* VISUALAGE PACBASE
*
* -----
```

```

* - DICTIONARY UPDATING WITH IBM MODEL DEVPT -
*
* -----
*
* THE VINS PROCEDURE PERFORMS A BATCH UPDATE OF THE
* DATABASE, BASED ON TRANSACTIONS PROVIDED.
*
* INPUT :
* - USER IDENTIFICATION LINE (REQUIRED)
* COL 2 : '*'
* COL 3 : USERIDXX
* COL 11 : PASSWORD
* COL 29 : 'VINS'
* COL 33 : 'I' - INSTALLATION OF IBM META-ENTITIES
* 'R' - RETRIEVAL OF USER ENTITIES WITH THE
* 'EXTENSION' FORMAT
* 'I' + 'R'
* -----
*
Parameter control
. $PACDIR/system/proc/BVPINIT.ini
echo ""
echo "-----"
BVPMSG 1004 "VINS"
echo " ====="
BVPMSG 1047 "$BVPBASE"
BVPMSG 1005 "$PACDIR/config/$1"
BVPMSG 1006 "$PACTMP"
BVPMSG 1073 "$PACUSERS"
BVPMSG 1007 "$PACINPUT"
. $PACDIR/config/$1/PAC7AJ.ini
BVPMSG 1015 "`dirname $PAC7AJ.~"
echo "-----"
echo ""
BVPPAUSE
$PACDIR/system/proc/SERVER $1 proc
RETURN=?
if ["$RETURN" != "0"]
then
 BVPMSG 1012 "VINS"
 BVPMSG 1037 $1
 BVPERR
 exit $RETURN
fi
BVPMKDIR

. $PACDIR/config/$1/PAC7AE.ini
. $PACDIR/config/$1/PAC7AJ.ini
. $PACDIR/config/$1/PAC7AN.ini
. $PACDIR/config/$1/PAC7AR.ini
. $PACDIR/config/$1/PAC7AY.ini
. $PACDIR/config/$1/PACGGN.ini
. $PACDIR/config/$1/PACGGR.ini
. $PACDIR/config/$1/PACGGU.ini
. $PACDIR/config/$1/PACGGY.ini

```

```

PAC7BM=~BVPENV PVINS PAC7BM $PACTMP/WBM`
export PAC7BM
PAC7DD=~BVPENV PVINS PAC7DD $PACUSERS/VINSDDINS.txt`
export PAC7DD
PAC7EE=~BVPENV PVINS PAC7EE $PACUSERS/VINSEEINS.txt`
export PAC7EE
PAC7EQ=~BVPENV PVINS PAC7EQ $PACUSERS/VINSEQINS.txt`
export PAC7EQ
PAC7ER=~BVPENV PVINS PAC7ER $PACUSERS/VINSERINS.txt`
export PAC7ER
PAC7ES=~BVPENV PVINS PAC7ES $PACTMP/WES`
export PAC7ES
PAC7EU=~BVPENV PVINS PAC7EU $PACUSERS/VINSEUINS.txt`
export PAC7EU
PAC7EZ=~BVPENV PVINS PAC7EZ $PACUSERS/VINSEZINS.txt`
export PAC7EZ
PAC7IA=~BVPENV PVINS PAC7IA $PACUSERS/VINSIAINS.txt`
export PAC7IA
PAC7IE=~BVPENV PVINS PAC7IE $PACUSERS/VINSIEINS.txt`
export PAC7IE
PAC7IF=~BVPENV PVINS PAC7IF $PACUSERS/VINSIFINS.txt`
export PAC7IF
PAC7IG=~BVPENV PVINS PAC7IG $PACUSERS/VINSIGINS.txt`
export PAC7IG
PAC7IH=~BVPENV PVINS PAC7IH $PACUSERS/VINSIHINS.txt`
export PAC7IH
. $PACDIR/config/$1/PACVINS.ini
PAC7MA=$PACVINS
export PAC7MA
PAC7MB=$PACINPUT
export PAC7MB
PAC7MR=~BVPENV PVINS PAC7MR $PACTMP/WMR`
export PAC7MR
PAC7MX=~BVPENV PVINS PAC7MX $PACTMP/WMX`
export PAC7MX
PAC7TD=~BVPENV PVINS PAC7TD $PACUSERS/TD.txt`
export PAC7TD
PAC7WD=~BVPENV PVINS PAC7WD $PACTMP/WWD`
export PAC7WD
SYSEXT=~BVPENV PVINS SYSEXT $PACTMP/WSY`
export SYSEXT
BVPMSG 1009 "BVPVINS"
rtspac BVPVINS
RETURN=$?
case $RETURN in
0)
;;
4)
BVPMSG 1008 $PACUSERS
;;
*)
BVPMSG 1012 "BVPVINS"
BVPMSG 1025
BVPERR
BVPRMTMP

```



```

exit $RETURN
;;
esac

BVPMSG 1010
BVPRMTMP
exit $RETURN

```

---

## GS/HE/ZS Files Initialization Utilities

### LDGS - Introduction

The LDGS procedure enables to physically create and initialize the GS indexed file.

This procedure must be executed when the GS file is not physically created (during the first installation especially) or logically desorganized.

#### EXECUTION CONDITION

On-line servers must be shut down.

#### USER INPUT

None.

### LDGS - Description of Steps

#### INITIALIZATION OF THE GS FILE: PTLDGS

This step initializes the GS file with a record.

| Code   | Physical name | Type   | Label              |
|--------|---------------|--------|--------------------|
| PAC7GS | Base dir.: GS | Output | Database work file |

### LDGS - Execution Script

```

#!/bin/sh
#@(#)VA Pac xxx xxx (R) LDGS BATCH PROCEDURE
* -----
* VISUALAGE PACBASE
*
* -----
Parameter control
. $PACDIR/system/proc/BVPINIT.ini
echo ""
echo "-----"
BVPMSG 1004 "LDGS"
echo " ====="
BVPMSG 1047 "$BVPBASE"
BVPMSG 1005 "$PACDIR/config/$1"

```

```

echo "-----"
echo ""
BVPPAUSE

. $PACDIR/config/$1/PAC7GS.ini
BVPMSG 1009 "BVPTLDGS"
rtspac BVPTLDGS
RETURN=$?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPTLDGS"
BVPERR
exit $RETURN
;;
esac

BVPMSG 1010
exit $RETURN

```

## LDHE - Introduction

The LDHE procedure enables to physically create and initialize the HE indexed file.

This procedure must be executed when the HE file is not physically created (during the first installation especially) or logically desorganized.

### EXECUTION CONDITION

On-line servers must be shut down.

### USER INPUT

None.

## LDHE - Description of Steps

### INITIALIZATION OF THE HE FILE: PTLDHE

This step initializes the HE file with a record.

| Code   | Physical name | Type   | Label                                            |
|--------|---------------|--------|--------------------------------------------------|
| PAC7HE | Base dir.: HE | Output | Backup file before display of Help documentation |

## LDHE - Execution Script

```

#!/bin/sh
#@(#)VA Pac xxx xxx (R) LDHE BATCH PROCEDURE
* -----
* VISUALAGE PACBASE

```

```

*
* -----
Parameter control
. $PACDIR/system/proc/BVPINIT.ini
echo ""
echo "-----"
BVPMSG 1004 "LDHE"
echo " ====="
BVPMSG 1047 "$BVPBASE"
BVPMSG 1005 "$PACDIR/config/$1"
echo "-----"
echo ""
BVPPAUSE

. $PACDIR/config/$1/PAC7HE.ini
BVPMSG 1009 "BVPTLDHE"
rtspac BVPTLDHE
RETURN=?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPTLDHE"
BVPERR
exit $RETURN
;;
esac

BVPMSG 1010
exit $RETURN

```

## LDZS - Introduction

This procedure enables to physically create and initialize the ZS indexed file.

It must be executed when the ZS file is not physically created (during the first installation especially) or logically desorganized.

### EXECUTION CONDITION

On-line servers must be shut down.

### USER INPUT

None.

## LDZS - Description of Steps

### INITIALIZATION OF THE ZS FILE: PTLDTS

This step initializes the ZS file with a record.

| Code   | Physical name | Type   | Label              |
|--------|---------------|--------|--------------------|
| PAC7ZS | Base dir.: ZS | Output | Database work file |

## LDES - Execution Script

```
#!/bin/sh
#@(#)VA Pac xxx xxx (R) LDZS BATCH PROCEDURE
* -----
* VISUALAGE PACBASE
*
* -----
Parameter control
. $PACDIR/system/proc/BVPINIT.ini
echo ""
echo "-----"
BVPMSG 1004 "LDZS"
echo " ====="
BVPMSG 1047 "$BVPBASE"
BVPMSG 1005 "$PACDIR/config/$1"
echo "-----"
echo ""
BVPPAUSE

. $PACDIR/config/$1/PAC7ZS.ini
BVPMSG 1009 "BVPTLDTS"
rtspac BVPTLDTS
RETURN=$?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPTLDTS"
BVPERR
exit $RETURN
;;
esac

BVPMSG 1010
exit $RETURN
```





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