

VisualAge Pacbase



Installation Guide UNIX Server & Client Components

Version 3.5



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Note

Before using this document, read the general information under “Notices” on page vii.

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Contents

Notices	vii	Chapter 4. Installation/Re-installation of Client Components	25
Trademarks	ix	Things to Know Before Installing	25
Chapter 1. Foreword	1	Root Directory	25
Introduction	1	Installation Startup.	26
VisualAge Pacbase Architecture	1	Fundamentals of VA Pac Client-Server Communication	26
Contents of Supply	2	Administrator & Developer workbench	28
Bibliography	2	Open Jade and Tidy / Publishing facility	31
Chapter 2. Prerequisites	5	eBusiness Tools	31
Prerequisites for Server Environment	5	VisualAge Pacbase WorkStation	33
Hardware and Software	5	Web Application Models (WAM)	37
Disk Space	5	Middleware	37
Prerequisites for Client Environment	5	Editing Communication Parameters	39
Hardware	5	The bases.ini File	39
Disk Space	6	The vaplocat.ini File	42
Software	6	Component Updating, Modification, or Removing	44
Communication	6	Chapter 5. Tests	45
Chapter 3. Installation of Server Environment	7	List of Utilities	45
Installation	7	Installation Tests	45
General Overview	7	Generation-Print, TP and Batch Update Tests	46
Installation Process	7	Administration Database Procedures Tests	46
Installation of System Environment	8	Development Database Procedures Tests	46
Update of the "/etc/services" File	8	Extraction-Utility Tests	47
Creation of a Specific UNIX User	9	Chapter 6. Re-installation of Server	49
Modification of the Configuration Files	9	Re-installation	49
Code page definition	10	General Overview	49
Installing from a CDROM	11	Description of the Re-Installation Procedure Steps	49
Description of the Installation Procedure Steps	11	Chapter 7. Retrieval - Exchanges between 2.n & 3.n databases	51
An element of the System: the online server	13	Retrieval of VisualAge Pacbase 2.0 and 2.5	51
Configuration	13	Foreword	51
Startup.	13	Notes	51
Description of the commands	15	Operations to be Performed.	52
Installation of the Specifications Database	18	Retrieval of User Parameters (PE25)	54
Administration Database.	18	PE25 - Introduction	54
Development Database	20	PE25 - Input / Processing / Results	54
List of components with their date of creation	22	PE25 - Description of Steps	55
INSL - Execution Script	22	PE25 - Execution Script	57

Retrieval of the Development Database (PC25)	60	GY Transactions exchanges between 3.n & 2.n (GY30)	111
PC25 - Introduction	60	GY30 - Introduction	111
PC25 - Notes on Data Retrieval	61	GY30 - Description of Steps	111
PC25 - Input / Processing / Results	62	GY30 - Execution Script.	112
PC25 - Description of Steps	62	Procedures - Summary Table of Changes	113
PC25 - Execution Script	66	Retrieval of VisualAge Pacbase 3.0	115
Generation-Print Commands Retrieval (PG20)	72	Operations to be Performed	115
PG20 - Introduction	72	Chapter 8. Components	117
PG20 - Input / Processing / Results	72	Server Environment Components	117
PG20 - Description of Steps	73	Introduction.	117
PG20 - Execution Script	77	On-Line Documentation.	117
Generation-Print Commands Retrieval (PG25)	81	Generation Skeletons.	117
PG25 - Introduction	81	Administration Database	117
PG25 - Input / Processing / Results	82	Administration Database Files	117
PG25 - Description of Steps	83	Administration Database Backup.	118
PG25 - Execution Script	86	Development Database	118
Retrieval of PJ Transactions (PJ25).	90	Development Database Files	118
PJ25 - Introduction	90	Development Database Backup Files	119
PJ25 - Description of Steps	91	Modules - Specific Files	119
PJ25 - Execution Script	92	Pac/Impact	119
PEI Retrieval (PP25)	93	DSMS.	119
PP25 - Introduction	93	PAF	120
PP25 - Input / Processing / Results	93	Complementary Libraries and Files	120
PP25 - Description of Steps	94	Chapter 9. Appendix	121
PP25 - Execution Script	96	Installation of the Administration Database	
Retrieval of Pac/Transfer Parameters (UV25).	98	Model	121
UV25 - Introduction	98	VINS - Introduction	121
UV25 - Input / Processing / Results	99	VINS - Input / Processing / Results	121
UV25 - Description of Steps.	99	VINS - Description of Steps	122
UV25 - Execution Script.	101	VINS - Execution Script.	123
MB Transactions exchanges between 2.n & 3.n (MB25)	104	Installation of the Development Database	
MB25 - Introduction	104	Model	126
MB25 - Description of Steps	105	VINS - Introduction	126
MB25 - Execution Script	105	VINS - Input / Processing / Results	126
GY Transactions exchanges between 2.n & 3.n (GY25)	106	VINS - Description of Steps	127
GY25 - Introduction	106	VINS - Execution Script.	129
GY25 - Description of Steps	107	GS/HE/ZS Files Initialization Utilities.	131
GY25 - Execution Script.	107	LDGS - Introduction	131
MB Transactions exchanges between 3.n & 2.n (MB30)	108	LDGS - Description of Steps	131
MB30 - Introduction	108	LDGS - Execution Script	131
MB30 - Description of Steps	109	LDHE - Introduction.	132
MB30 - Execution Script	109	LDHE - Description of Steps	132
		LDHE - Execution Script	133
		LDZS - Introduction	133
		LDZS - Description of Steps	133
		LDZS - Execution Script	134
		Retrieval utilities	134

UTU1 - Extraction of 'P' lines with 'UNS'	134	UTU2 - Update of 'P' lines with 'UNS'	136
UTU1 - Input / Processing / Results . . .	135	UTU2 - Input / Processing / Results . . .	136
UTU1 - Description of Steps	135	UTU2 - Description of Steps	137
UTU1 - Execution Script	135	UTU2 - Execution Script	137

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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:

- System elements: programs, files (online help included), and parameters.
- VA Pac Administration Database that contains user parameters and other parameters.
- one or more VA Pac development Databases.

THE CLIENT ENVIRONMENT

The client environment includes five separately installable components:

- Administrator & Developer workbench (also separately installable).
Developer workbench includes the following modules (each running independently):
 - Batch,
 - eBusiness (includes three eBusiness Tools and Services Modeler),
 - Services Modeler.

Each of these modules can be executed independently.

- eBusiness Tools:
 - Proxy Generator,
 - Location Editor,
 - Services Test Facility,
 - VisualAge Pacbase Connector,
 - VisualAge Pacbase Web Connection (Dialog Web Revamping Generator),
 - Web application models (WAM).
- VisualAge Pacbase WorkStation (Pacdesign, Pacbench)
- Web application models (WAM)
- Middleware

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 the VA Pac server,
- Client Components 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:
 - 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): 256 Mb (512 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,
- Windows XP.

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 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,
- installation of the system, from the CD-ROM,
- 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 communication port numbers in the `"/etc/services"` UNIX 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, including the ADMIN database. Let us suppose that we have chosen number 52030.

- The port number 52030/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 -an | grep 52030
```

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

```
paclanx 52030/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, HP-UX or LINUX version, create or modify the LD_LIBRARY_PATH variable:

```
LD_LIBRARY_PATH=/usr/lib:$COBDIR/coblib:$PACDIR/system/bin
export LD_LIBRARY_PATH
```

If you use Server Express, LD_LIBRARY_PATH must contain

```
LD_LIBRARY_PATH=/usr/lib:$COBDIR/lib:$PACDIR/system/bin
export LD_LIBRARY_PATH
```

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

For the HP-UX version, on top of the LD_LIBRARY_PATH variable, you must set the SHLIB_PATH variable as following:

```
export SHLIB_PATH=$PACDIR/system/bin:$SHLIB_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 your 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 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:

```
PB350"hardware_code"."version_code"
```

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

Example on AIX:

```
cd $HOME/PB350AIX.Vnn (nn = version number)
```

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
- 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 'en' for English or 'fr' 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.

An element of the System: the online server

Configuration

When started, each listener executes a "BVPSERVER.ini" command file type to assign any environment file it needs.

This file is created when the listener is created in the \$PACDIR/config/"database_name" directory and listener environment variables:

- BVPSOCKET : socket number,
- SRV_DIR : directory containing the listener trace files,
- SEMLOCK : serialization lock of concurrent updates of the user database,
- SEMADMIN : serialization lock of concurrent updates of the "ADMI" administrator database.

Startup

The listener, whose executables (pactp, bvpsserver, paclaunch) are in the \$PACDIR/system/bin directory allows the following:

- to set the listener(s) in active or inactive mode,
- to supply information concerning the listener(s),
- to purge workstation attached to an listener,
- to purge the listener(s).

To carry out the operation listed above the listener commands interpreter (pactp) is started up.

There are two possible modes:

- the 'command' mode,
- the 'shell' mode.

For the 'command' mode type:

```
pactp <command>
```

To return to 'shell' mode type:

```
pactp -s
```

The 'command' mode is used to insert the listener commands in a commands file.

For example, the com_paclan file contains the following command:

```
# display the listener' status
pactp info
# start the BVAP listener
pactp start BVAP
# display information on the BVAP listener in ten seconds
pactp info BVAP
# stop the ADMI listener
pactp shutdown ADMI
# start the 003 station purge command dependant on the BVAP
listener
pactp purge BVAP 003
```

The advantage of the 'shell' mode is that you avoid re-starting the interpreter for each command and so you avoid delays between commands.

The commands available are:

- debug (activation/deactivation of debugger mode)
- exit (exit from 'shell' mode),
- help (help on a command's syntax),
- info (information on the listener(s)),
- purge (purge the workstation),
- purge_server (purge the listener),
- shutdown (stop the listener without confirmation),
- start (start the listener),
- stop (stop the listener with confirmation),
- view (display the listener's status).

A detailed description of the commands is given below in the paragraph 'Description of the commands'.

EXECUTION CONDITIONS

The PACDIR environment variable must be initialized.

The COBPATH environment variable must contain the access path for on-line modules: "\$PACDIR/system/gnt".

(see chapter "Installation of Server Environment" - "Installation of System Environment" - "Modification of the Configuration Files").

Description of the commands

Debug command

This command activates or deactivates the 'debug' mode. The listener name must be passed as a parameter, followed by "on" or "off" to activate or deactivate the 'debug' mode.

There are two types of result files:

```
srv[process_number].txt
```

to trace the listener processing in touch with new connections.

```
dial[process_number].txt
```

to trace the processing of each connection to the listener.

So to each connection to the listener corresponds a trace.

These files are located in the SRV_DIR directory. SRV_DIR is an environment variable assigned in the "\$PACDIR/config/[base_name]/BVPSEVER.in" configuration file. Its default value is :
"\$PACDIR/data/[base_name]/tmp/server".

EXAMPLE:

- Start the debug mode on an listener BVAP

```
pactp debug BVAP on      (in command mode)
VA Pac  : debug BVAP on  (in shell mode)
```
- Stop the debug mode on an listener BVAP

```
pactp debug BVAP off    (in command mode)
VA Pac  : debug BVAP off (in shell mode)
```

- Different trace levels can be applied:

1. Level 1

Minimum trace to follow the listener processing with the calls to the COBOL communication monitor,

2. Level 2

Detailed trace of the listener processing,

3. Level 4

Trace of messages exchanged between the listener and the client.

The 'debug on' command activates a level 1 trace on the active listener. To use other traces, the listener must be restarted after setting the SRV_TRACE variable in the 'BVPSERVER.ini' file.

EXAMPLE:

SRV_TRACE=1 for a level 1 trace

SRV_TRACE=3 for a level 1 and 2 trace

SRV_TRACE=5 for a level 1 and 4 trace

The 'debug off' command stops the trace creation for the new listener connections.

Exit command

This command is used to exit the shell mode (commands interpreter) previously done by `pactp -s`.

Help command

This command displays help concerning a listener administration command. If no parameter is specified, the list of available commands is displayed. If a command is specified, the help for this command is displayed on the screen.

EXAMPLE: request help on the syntax of the start command

```
pactp help start      (in command mode)
VA Pac : help start (in shell mode)
```

Info command

This command displays information on the listener(s).

This command followed by a base name (info "base_name") gives the following information :

- active (if the listener is active),
- inactive (is the listener is inactive),
- Error (if the listener is stopped abnormally).

Purge command

This command purges a workstation (i.e. it disconnects a workstation).

If the interpreter (pactp) is in command mode, the syntax for the purge command is as follows:

```
"pactp purge <base_name> <no. of the station to purge>"
```

In shell mode there are two syntaxes for the purge command:

- "purge <no. of the station to purge>" if the prompt is different from "VA Pac ::" (the prompt taking the value of listener name, after the use of the view command, for example).
- "purge <base_name> <no. of the station to purge>" if the prompt is "VA Pac ::".

Purge_server command

This command purge an listener in the case of abend, displayed with the "Error" status after the "info" command. The syntax for the purge_server command is as follows:

```
"pactp purge_server <base_name>"
```

In shell mode the syntax for the command is:

```
"purge_server <base_name>"
```

N.B.: This command deletes the listener process(es), as the used IPC resources (semaphores, shared memory).

Shutdown command

This command stops the listener. The base's name must be passed as a parameter of the command.

EXAMPLE: stop the BVAP listener

```
pactp shutdown BVAP      (in command mode)
VA Pac : shutdown BVAP (in shell mode)
```

Start command

This command starts the listener. The base's name must be passed as a parameter of the start command. The initialization file BVPSEVER.INI must be in the \$PACDIR/config/"base_name" directory. The listener start-up program, paclaunch, starts the "bvpsvr" process. If problems arise (listener lock), in a first time use the command:

```
pactp purge_server "listener_name".
```

If this command has no effect, process can always be killed using the 'kill -15' command or 'kill -9' followed by process number (PID).

EXAMPLE: starting the BVAP listener

```
pactp start BVAP      (in command mode)
VA Pac : start BVAP (in shell mode)
```

Stop command

This command stops an listener. The base's name must be passed as a parameter of the stop command. You have to confirm stopping the server.

EXAMPLE: stop the BVAP listener

```
pactp stop BVAP      (in command mode)
VA Pac : stop BVAP (in shell mode)
```

View command

This command displays information concerning a listener: the list of connected workstations, the IP address of the client workstation, the PID number of the client process launched by the listener, the name of the executed COBOL program and its 'Elapse' execution time in milliseconds. It also gives information on the status of the semaphore used to synchronize the concurrent accesses to the database.

EXAMPLE: display information about the BVAP listener

```
pactp view BVAP      (in command mode)
VA Pac : view BVAP (in shell mode)
```

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.

INPUT THE LANGUAGE CODE IN THE DATABASE

- de (German)
- en (English)
- es (Spanish)
- fr (French)
- po (Portuguese/Brazilian)

INPUT THE SOCKET NUMBER OF THE LISTENER

The socket number must be between 49152 and 65535.

It must be declared in the /etc/services file (refer to 'Update of the /etc/services File' sub-chapter).

CREATION OF THE DATABASE SUBDIRECTORIES

- \$PACDIR/data/ADMI/base
- \$PACDIR/data/ADMI/journal
- \$PACDIR/data/ADMI/save
- \$PACDIR/data/ADMI/script
- \$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.

This key is limited for the basis functions of the server. It allows to execute some procedures only, in particular to create a new database. But it must be updated, via the Administrator Workbench, for the updates.

EXECUTION OF THE INITIALIZATION BATCH PROCEDURES

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

INGU : INITIALIZATION OF THE USERS FILE

This procedure is executed for the first installation only. It defines and then loads the GU file with the 'TEST' and 'ADMIN' users codes. These users codes will be used to start the test scripts.

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.

The following jobs must be executed every time a new development database is initialized.

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 5-digit number between 49152 and 65535.

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/journal
- \$PACDIR/data/BVAP/save

- \$PACDIR/data/BVAP/script
- \$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.

List of components with their date of creation

INSL procedure

This procedure is used to edit:

- the list of batch, on-line programs and their generation characteristics,
- In case of system operation problem, this list should be printed in order to communicate to VisualAge Pacbase Support all the installation references.

In any case, you must verify that the provided user inputs are adapted to your environment.

INSL - Execution Script

```
#!/bin/sh
#@(#)VA Pac xxx xxx (R) INSL BATCH PROCEDURE
# * -----
# *      VISUALAGE PACBASE
# *
# * -----
# *      - LIST OF INSTALLED PROGRAMS AND FILES -
# *
# * -----
# *
# *
# * INPUT:
```

```

# * - ONE LINE : BVP PREFIX OF THE PRODUCT
# *   (COL.3 LENGTH 3 )
# *
# * -----
# *
# Parameter control
. $PACDIR/system/proc/BVPINIT.ini
echo ""
echo "-----"
BVPMSG 1004 "INSL"
echo "          ====="
BVPMSG 1006 "$PACTMP"
BVPMSG 1073 "$PACUSERS"
BVPMSG 1007 "$PACINPUT"
echo "-----"
echo ""
BVPPAUSE
BVPMKDIR
# -----
echo ""
OUTFILE=`BVPENV PAN205 OUTFILE $PACUSERS/INSL.txt`
for i in `cat $PACINPUT`
do
  if [ -d "$i" ]
  then
    ls $i/* >> $PACTMP/LIST
  else
    echo $i >> $PACTMP/LIST
  fi
done
LIST=$PACTMP/LIST
export LIST
LOGFILE=$PACUSERS/INSL.log
export LOGFILE
BVPMSG 1009 "bvupdate"
bvupdate $OUTFILE > $LOGFILE 2>&1
RETURN=$?
case $RETURN in
0)
  ;;
*)
  BVPMSG 1012 "bvupdate"
  BVPMSG 1025
  BVPERR
  BVPRMTMP
  exit $RETURN
  ;;
esac
# -----
BVPMSG 1010
BVPRMTMP
exit $RETURN

```

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 a 4.7 or higher Netscape version or a 5.5 or higher Internet Explorer version be used.
- 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 must indicate when you install some Client components 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\VisualAge_Pacbase_35
```

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 new root name is your choice, knowing that it must be different than the current installation root (the installation script controls that).

By "version" one must understand the version identified by the first digits, e.g. "3.5". Versions identified by "Vnn" actually are sub-versions.

For more information, see Subchapter "Component Updating, Modification, or Removing".

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 license. You agree with the terms of the license ; 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, the used protocol is MVS IMS Connect.

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, and eBusiness Tools.

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.

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 IBM SDK for Java 2 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 choose to install Administrator workbench or Developer workbench or both:

- Administrator workbench
- Developer workbench

Developer workbench includes the following modules, each running independently:

- Batch module,
- eBusiness module, also including three of the eBusiness Tools:
 - Proxy Generator,

- Location Editor,
- Services Test Facility.
- Services Modeler module (all of its functionalities being included in the eBusiness module).

Whether you install Administrator or Developer workbench or both, the CFM utility (Configuration File Manager) is always installed. CFM 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.

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.

VisualAge Pacbase signon:

The user will have to enter his/her code and password to connect to the VA Pac Database.

Middleware signon:

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 signon box is checked, VA Pac authentication is performed by the security system.

If both boxes are checked, 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_dialog.bat
- wb_eBusiness.bat

- wb_services.bat
- wb_cfm.bat
- wb_global.bat

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

START MENU / PROGRAMS CHOICE

Once the installation is complete, the Windows desktop includes the VisualAge Pacbase 3.5 Components section in the Start Menu/Programs choice, with the following sub-sections:

```
Administrator-Developer workbench
    Administration
    Batch
    Dialog
    eBusiness
    Services Modeler
    cfm
    Global
```

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/awdtools/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.exe that you unzip in the installation root directory, by default:

```
C:\Program Files\IBM\VisualAge_Pacbase_35
```

eBusiness Tools

The eBusiness Tools are:

- Proxy Generator
- Location Editor
- Services Test Facility
- VisualAge Pacbase Connector
- VisualAge Pacbase Web Connection (Dialog Web Revamping Generator)
- Web Application Models (WAM)

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

If IBM SDK for Java 2 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 following lines are irrelevant as far as WAM is concerned.

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 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.

Also, the eBusiness Tools component can run via a gateway. In this case you will also have to install the Middleware component and configure communication parameters, on the intermediate server which hosts the VisualAge Pacbase gateway.

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

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

- For VisualAge Pacbase Web Connection:
PacWebgen.exe

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

eBusinessTools\bin

- Unlike the other eBusiness Tools, WAM is installed in its own directory named Wam. This directory contains a zipped file and a readme file. Read this file and follow the instructions included therein.
- 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 3.5 Components section in its Start Menu/Programs choice, with the following sub-sections:

eBusinessTools

- Location Editor
- Proxy Generator
- Services test Facility
- Dialog Web Revamping Generator

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.

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:

Pacbase is secured:

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

Middleware is secured:

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\nnnl where "nnn" identifies the WorkStation's version and "l" its installed language).

START MENU / PROGRAMS CHOICE

Once the installation is completed, your Windows desktop includes the VisualAge Pacbase 3.5 Components section in its Menu Start/Programs choice, with the following sub-sections:

```
WorkStation
    WorkStation 3.5
    WorkStation 3.5 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           [350F]
002 Server                   [PACBASE]
003 Communication Manager    [MWCOM]
004 Communication Parameters [MWCOM]
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.

Web Application Models (WAM)

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

To start the WAM installation, press the [Install] button.

WAM is installed in its own directory named Wam. This directory contains a zipped file and a readme file. Read this file and follow the instructions included therein.

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.

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 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.

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

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\VisualAge_Pacbase_35\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 customized 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 and + : 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 traceFile and traceLevel parameters can be used to start the GATEWAY.

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\VisualAge_Pacbase_35\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 50000
```
- 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 50000
IXO_TRANSID=V303
```
- MVS CICS CPI-C

```
<LocationName>
COMM_TYPE=CPIC
MONITOR=BVPSCPI
```

```
MESSAGE_LENGTH=31744
IXO_TIMEOUT=30
HOST_ENCODING=1140 (US) or 1146 (UK)
```

- **IMS Connect**

```
<NomLocalisation>
COMM_TYPE=TCPIMS
MONITOR=XXXXXXXXX
MESSAGE_LENGTH=31744
IXO_TIMEOUT=30
HOST_ENCODING=1140 (US) or 1146 (UK)
IXO_ADDRESS=127.0.0.1 50000
IXO_TRANSID=WK35
IXO_DATASTORE=IMSC
IXO_RACFGROUP=FR42
```

DETAILS ON THE PARAMETERS

The following list is organized 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 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/IMS, 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.

Component Updating, Modification, or Removing

The VA Pac Client Components Installation CD also allows you to:

- "Update" an already installed component.
- "Modify" i.e. add a new sub-component to an already installed component.

This option is available only with:

- Administrator & Developer workbench:

To add one of both workbenches as the other is already installed,

- VisualAge Pacbase WorkStation:

To add a Methodology.

- "Remove" an already installed component.

You can also use the Windows service "Add/Remove" Programs in the Configuration Panel.

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
PAGX	Extraction of Administration Database
UPGP	Update of PAF batch format of 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	Reorganization 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,
- Development 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.

During all these tests, the Administration database server must be shut down.

- Extraction of Administration database data: execute the PAGX procedure and save the GY file of extracted data.
- PAF update of the Administration database: execute the UPGP procedure with the extracted file (result of the PAGX procedure execution).

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.

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

- 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.
- Library manager: add/delete a library in the 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).
- Extraction of sub-network: execute the PACS procedure (UXSR option).

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

Each of these jobs can be followed by an UPDT or UPDP 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

WARNING: The servers of the administration database and users databases must be stopped.

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 - Exchanges between 2.n & 3.n databases

Retrieval of VisualAge Pacbase 2.0 and 2.5

Foreword

The installation of the release can be completed by the execution of utilities procedures.

There are two types of procedures:

Procedures to be executed on the 2.5 database.

They are dedicated to prepare the retrieval in the new release.

See the "Help to retrieve 2.5 utilities" manual for a detailed documentation.

These procedures are :

- UTAG : AG file purge,
- UTFG : PIA stamp,
- UTSD : association of keyword to a data structure type.

Procedures to be executed on the new database.

See the "Appendix" at the end of this manual for a detailed documentation.

These procedures are :

- UTU1 : 'UNS' lines extraction,
- UTU2 : 'UNS' lines update.

Notes

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.n environment enables to convert a file from one given code page to 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.n version.

Example :

"IN" file, which comes from a 2.5 version, to convert from a PC850 code page to the 932 code page of the 3.n Repository:

```
bvptrans F-IN F-OUT 850 923
```

Operations to be Performed

The installation of this version 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 7 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 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,
 - 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,
- PACS (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, and re-organization of the new Database,
- ARCH: archiving of the Development Database,
- REST: restoration of the new Development Database from the backup obtained previously; do not forget to specify the Development Database code in the user input of the procedure,
- VINS: installation of the Development Model of the new database (see the description in the appendix at the end of this manual and create the MR file to take its transactions into account in the re-organization),

The execution of the following procedures, as if it is not requested in the VINS report, is advised for a better optimization.

- 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, 6 and 7 are optional.

4) Retrieval of generation-print commands.

It consists in executing the following procedures:

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

7) Retrieval (potential) of PJ journal

It involves executing the PJ25.

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 (optional) in which you indicate the Administrator's code and name. This line is necessary only if the security system (RACF) is used.

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
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	Output	User parameter transactions (length=310)
PAC7ET	User dir.: PE25ET920	Report	Error report

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

Code	Physical name	Type	Label
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

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

Code	Physical name	Type	Label
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	Tmp dir.: WRB	Output	UPDT erroneous transactions (length=80)
PAC7RY	Tmp dir.: WRY	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 PTU920 PAC7EN `dirname $PACSAVPC`/OLDPE`
BVPMSG 1044 PE 2.5 $PAC7EN
echo "-----"
echo ""
BVPFAUSE
STATUS=`pactp info $1 | grep "Server Status" | cut -d: -f2`
if [ "$STATUS" != " Inactive" -a "$STATUS" != "" ]
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
    BVPRTMP
    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
BVPRTMP
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 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).

- Specificity 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.

WARNING:

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.

IMPORTANT: If in the 2.n release, a line with a type which is not a comment is overridden by a comment line, because of the -G splitting, this override is not transferred to the actual release, it must be done manually in the new database.

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 'EIBM'.

LONG DATA: USER ENTITIES, INPUT AIDS, REPORT LAYOUTS

There are no more continuation records for these entities. There is only one index for one main record and one index for each continuation record. Long data are 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.

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	First data record (length=153)

Code	Physical name	Type	Label
PAC7PE	Tmp dir. : WPE	Output	User Entity Occurrence 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 Occurrences (2.5 release) (length=193)
PAC7PF	Tmp dir. : WPF	Output	Other records (length=153)
PAC7PM	Tmp dir. : WPM	Output	Report file (length=62)
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

Code	Physical name	Type	Label
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)

SORT OF INPUT AIDS : PTU92B

Code	Physical name	Type	Label
PAC7PE	Tmp dir. : WPH	Input	Description of Input Aids and Comments including calls of Input Aids
PAC7PK	Tmp dir. : WPK	Output	Description of Input Aids and Comments including calls of Input Aids (length=193)

SORT OF INPUT AIDS : PTU92C

Code	Physical name	Type	Label
PAC7PK	Tmp dir. : WPK	Input	Description of Input Aids and Comments including calls of Input Aids
PAC7KP	Tmp dir. : WKP	Output	Description of Input Aids and Comments including calls of Input Aids (length=193)
PAC7PB	Tmp dir. : WPC	Input	First data record
PAC7PD	Tmp dir. : WPD	Output	First data record (length=153)

REPORT LAYOUT PROCESSING: PTU919

Code	Physical name	Type	Label
PAC7AE	System - Skel dir. : AE	Input	Error messages
PAC7PE	Tmp dir. : WPE	Input	User Entity Occurrences Definition (2.5 rel.), Report layouts and Comments (except calls of input aids)
PAC7PB	Tmp dir. : WPD	Input	First data record
PAC7PM	Tmp dir. : WPM	Input/Output	Report file

Code	Physical name	Type	Label
PAC7ZP	Tmp dir. : WEP	Output	User entity Occurrences Definition (2.5 rel.), Report layouts (length=193)
PAC7PO	Tmp dir. : WPO	Output	Comments (except the call of Input Aids) (length=153)
PAC7PD	Tmp dir. : WPB	Output	First data record (length=153)

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)

USER ENTITIES PROCESSING: PTU913

Code	Physical name	Type	Label
PAC7AE	System - Skel dir. : AE	Input	Error messages
PAC7PX	Tmp dir. : WEP	Input	Definition of User Entity Occurrences (2.5 release) and Report Layout
PAC7PZ	Tmp dir. : WZP	Input	Definition and Description of the Development Model and Description of User Entity Occurrences (2.5 rel.)
PAC7PB	Tmp dir. : WPB	Input	First data record
PAC7KP	Tmp dir. : WKP	Input	Comments (including the calls of Input Aids)
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)
PAC7PD	Tmp dir. : WPR	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. : WPB	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 (present 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
# -----
PAC7PE=~BVPENV PTU92B PAC7PE $PACTMP/WPH`
export PAC7PE
PAC7PK=~BVPENV PTU92B PAC7PK $PACTMP/WPK`
export PAC7PK
BVPMSG 1009 "BVPTU92B"
rtspac BVPTU92B
RETURN=$?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPTU92B"
BVPMSG 1025
BVPERR
BVPRMTMP
exit $RETURN
;;

```



```

esac
# -----
PAC7PB=`BVPENV PTU92C PAC7PB $PACTMP/WPC`
export PAC7PB
PAC7PK=`BVPENV PTU92C PAC7PK $PACTMP/WPK`
export PAC7PK
PAC7PD=`BVPENV PTU92C PAC7PD $PACTMP/WPD`
export PAC7PD
PAC7KP=`BVPENV PTU92C PAC7KP $PACTMP/WKP`
export PAC7KP
BVPMSG 1009 "BVPTU92C"
rtspac BVPTU92C
RETURN=?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPTU92C"
BVPMSG 1025
BVPERR
BVPRMTMP
exit $RETURN
;;
esac
# -----
. $PACDIR/config/$1/PAC7AE.ini
PAC7PB=`BVPENV PTU919 PAC7PB $PACTMP/WPD`
export PAC7PB
PAC7PD=`BVPENV PTU919 PAC7PD $PACTMP/WPB`
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 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 PTU913 PAC7PB $PACTMP/WPB`
export PAC7PB
PAC7KP=~BVPENV PTU913 PAC7KP $PACTMP/WKP`
export PAC7KP
PAC7PD=~BVPENV PTU913 PAC7PD $PACTMP/WPR`
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 new release 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. : OLDPG	Input	Generation-print commands, old release
PAC7OU	Tmp dir.: WPG	Output	Re-formatted generation-print commands (length=150)

GENERATION-PRINT COMMANDS PROCESSING: PTU921

Code	Physical name	Type	Label
PAC7PG	Tmp dir.: WPG	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. : PG20ET921	Report	Error report

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

Code	Physical name	Type	Label
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

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

Code	Physical name	Type	Label
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	Tmp dir.: WRB	Output	UPDT erroneous transactions (length=80)
PAC7RY	Tmp dir.: WRY	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

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.: WGY	Input	Update transactions

Code	Physical name	Type	Label
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
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	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	Tmp. dir.: WRB	Output	UPDT erroneous transactions (length=80)
PAC7RY	Tmp. dir.: WRY	Output	UPDP erroneous transactions (length=310)
PAC7IE		Report	Update report (length=132)

Code	Physical name	Type	Label
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

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
STATUS=`pactp info $1 | grep "Server Status" | cut -d: -f2`
if [ "$STATUS" != "Inactive" -a "$STATUS" != "" ]
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 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.

Any user having Script lines to generate in online mode (GP screen, displayed in C4 option) is automatically created in the Administration database.

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. : PG25ET921	Report	Error report

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
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)

Code	Physical name	Type	Label
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	Tmp dir.: WRB	Output	UPDT erroneous transactions (length=80)
PAC7RY	Tmp dir.: WRY	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

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.: WGY	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
PAC7AJ	Journal dir.: AJ	Output	Development 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	Tmp dir.: WRB	Output	UPDT erroneous transactions (length=80)
PAC7RY	Tmp dir.: WRY	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

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
STATUS=`pactp info $1 | grep "Server Status" | cut -d: -f2`
if [ "$STATUS" != "Inactive" -a "$STATUS" != "" ]
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

```

Retrieval of PJ Transactions (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 the new version format.

PREREQUISITES

None.

PRINTED OUTPUT

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

WARNING: The number of written transactions can be very higher than the read transactions number. From an old 2.n transaction, many transactions of the new version can be created; in particular for the meta-entities and user entities.

RESULT

This procedure generates a PJ journal file in the new release 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 the new version.

Sometimes, to retrieve some transactions, it is necessary to search for information in the new version 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.: 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 data
PAC7JP	Save dir.: PJ	Sortie	Journal file in the new format (length=170)
PAC7ET	User dir.: PJ25ET918	Report	Report

PJ25 - Execution Script

```
#!/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`/OLDPJ`
BVPMSG 1044 PJ 2.5 $PAC7PJ
echo "-----"
echo ""
BVPVPAUSE
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 $PACSAVPJ`/OLDPJ`
export PAC7PJ
BVPMSG 1009 "BVPTU918"
rtspac BVPTU918
RETURN=$?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPTU918"
BVPMSG 1025
BVPERR
BVPRTMP
exit $RETURN
;;
esac
```



```
# -----
BVPMMSG 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 development database of the installed version.

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 new format, and updates the development database of the installed version.

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

Position	Length	Value	Meaning
3	8	uuuuuuuu	User code
11	8	pppppppp	Password

PP25 - Description of Steps

MANAGEMENT OF PRODUCTION ENVIRONMENT: PTU923

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

Code	Physical name	Type	Label
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
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	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	Tmp dir.: WRB	Output	UPDT erroneous transactions (length=80)
PAC7RY	Tmp dir.: WRY	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

PROCESSING OF TRANSFER PARAMETERS: PTU922

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

Code	Physical name	Type	Label
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

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

Code	Physical name	Type	Label
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	Tmp dir.: WRB	Output	UPDT erroneous transactions (length=80)
PAC7RY	Tmp dir.: WRY	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

```

MB Transactions exchanges between 2.n & 3.n (MB25)

MB25 - Introduction

PRINCIPLE

This procedure retrieves the 2.0 or 2.5 UPDT format transactions in the new release.

LIMITS

The User Entities, User Entities Occurrences, Relations, U-type Volumes are not processed.

The P.I.A. calls are processed as the comments.

The P.I.A. types change between the 2.n and 3.n versions: to allow the transactions exchange between these 2 versions, execute in 2.n the UTFG procedure which assigns the 3.n types.

REQUISITES

None.

PRINTED OUTPUT

This procedure prints a report of the errors encountered.

RESULT

This procedure generates a transaction file for the new version 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 dir.: OLDMB	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

```

GY Transactions exchanges between 2.n & 3.n (GY25)

GY25 - Introduction

PRINCIPLE

This procedure retrieves the 2.0 or 2.5 UPDP format transactions in the new release.

LIMITS

The User Entities, Relations, U-type Volumes are not processed.

The P.I.A. calls are processed as comments.

The P.I.A. types change between the 2.n and 3.n versions: to allow the transactions exchange between these versions, execute in 2.n the UTFG procedure which assigns the 3.n types.

REQUISITES

None.

PRINTED OUTPUT

This procedure prints a report of the errors encountered.

RESULT

This procedure generates a transaction file for the UPDP procedure of the new release 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.: 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 dir.: OLDGY	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
BVPRMTMP
exit $RETURN
;;
esac
# -----
BVPMSG 1010
BVPRMTMP
exit $RETURN

```

MB Transactions exchanges between 3.n & 2.n (MB30)

MB30 - Introduction

PRINCIPLE

This procedure retrieves the UPDT format transactions of the new release to the 2.0 or 2.5 release.

LIMITS

The User Entities, Meta-entities, Relations, Descriptions, Keywords, associated Documentation and Relation calls are not processed.

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 dir.: OLDMB	Input	MB transactions of the new version
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
BVPRMTMP
exit $RETURN
;;
esac
# -----
BVPMSG 1010
BVPRMTMP
exit $RETURN

```

GY Transactions exchanges between 3.n & 2.n (GY30)

GY30 - Introduction

PRINCIPLE

This procedure retrieves the UPDP format transactions of the new release in the 2.0 or 2.5 release.

LIMITS

The Meta-entities, Relations, Descriptions, Keywords, associated Descriptions and Relation calls are not processed.

But, User entities are retrieved as 2.n User entity occurrences. The user will have to create the corresponding 2.n user entity.

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 dir. : OLDGY	Input	GY transactions of the new version
PAC7MV	User dir. : GY30MV	Output	Retrieval transactions for UPDP
PAC7ME	User dir. : GY30ME	Output	Revoked transactions
PAC7EF	User dir. : GY30EF929	Report	Retrieval reports

Code	Physical name	Type	Label
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
  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	Archiving the QJ journal of SCM module
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 (SAVE option)
PAGX	Extraction of Administration Database
VINS	Update of Administration Model
PACS	Management of development Database
GY25	Retrieval of GY file for UPDP to 3.n
MB25	Retrieval of MB file for UPDT to 3.n
GY30	Retrieval of GY file for UPDP to 2.n
MB30	Retrieval of MB file for UPDT to 2.n
PC25	Retrieval of development Database
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.n
PP25	Retrieval of PEI environment (PP)
UV25	Retrieval of PacTransfer parameters (UV)
CHPM	Environment and Database elements check report
CPPM	Comparison between Database and user configuration

Procedure	Comments
EXPM	Extraction of environments
HIPM	Implementation of elements
SIPM	Generation simulation
UPPM	Update of elements
TRED	PacTransfer: print of parameters
UPGP	PAF update Administration Database
CEND	Intra-Endevor integrity validation
CIND	Inter-Environments integrity validation
JJND	Endevor : retrieval of archived journal
JRND	Endevor : retrieval of archived journal transactions
MEND	Endevor : generation of VA Pac Update transactions
RIND	Endevor : Infopac elements creation (existing data retrieval)
RPND	Endevor : VA Pacbase elements creation (existing data retrieval)
RPTY	Endevor : Types file retrieval
RP25	Endevor : user entities retrieval
RRND	Endevor : existing data retrieval
TYND	Endevor : Types loading
UPND	Endevor : VA Pacbase elements import into Endevor

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	

Procedure	Program	Comments
GET0	PACTI1	
GET1	PACT41	
GET2	PACT41 PACT51	
GRPE	PACR40	
INPE	PACR01	
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	

Retrieval of VisualAge Pacbase 3.0

Operations to be Performed

The 3.5 version can be installed in the same environment than the 3.0 version. This case is considered as a re-installation.

Before, it is recommended to save the development and administration databases (SAVE, ARCH) in 3.0 version.

- If this version is installed in the same environment than the 3.0, refer to the 'Re-installation of Server' chapter in this manual.

After the administration model update (VINS execution), connect to the Administrator Workbench to enter the new access key.

- If this version is installed in a new environment, after the execution of all the steps of the server part installation, the databases must be restored following the steps:
 - REST : restoration of the administration database,
 - VINS : update of the Administration Model,
 - Connection via the Administration workbench to enter and activate the new access key to the system,
 - REST : restoration of each development database,
 - VINS : update of the VA Pac Model for each development database.
- In all cases, the reorganization of the databases is required (ARCH, SAVE, REOR, REST).

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 SCM Tools Interface, QJ.

Administration Database Backup

The administration Database backup consists of two sequential generation files.

- Backup of the Database (PC).

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 of the administration database enables you to split it into several files, among which only the most recent one is used on a regular basis.

- Backup of SCM module QJ journal

The backup of QJ is the JQ file.

The purpose of this file is to archive the valid transactions already processed by UPPM and stored in the QJ journal file.

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 random 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 analyzed (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

Complementary Dictionary files are located in the \SYS\SKEL.

PQC FUNCTION

- The BVPQCRA and BVPQCRF files contain the standard quality rules.

- SPECIFIC MEMBERS OF PACBENCH QUALITY CONTROL FUNCTION

File	Contents of format	Comments
BVPQCRA	Sequential file in English	Standard rules
BVPQCRF	Sequential file in French	Standard rules

Chapter 9. Appendix

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 the Administrator's Procedures manual, sub-chapter 'Abnormal Ending'.

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 are in a file (assigned by PAC7MR) which must be made permanent by substitution.

VINS - Description of Steps

UPDATE OF THE ADMINISTRATION DATABASE : VINS

Code	Physical name	Type	Label
PAC7AE	System - skel. dir.: AE	Input	error labels
PACGGN	Admin. Base - Base dir.: AN	Input	Administration Database Index
PACGGR	Admin. Base - Base dir.: AR	Input	Administration Database Data
PACGGY	Admin. Base - Base dir.: AY	Input	Administration Database Extension
PACGGU	Admin. Base - Base dir.: GU	Input	Administration Database Users
PAC7AJ	Journal directory: AJ	Input	Administration Database Journal
PAC7AN	Admin. Base - Base dir.: AN	Input	Administration Database Index
PAC7AR	Admin. Base - Base dir.: AR	Input	Administration Database Data
PAC7AY	Admin. Base - Base dir.: AY	Input	Administration Database Extension
PAC7MA	System - skel. dir.: 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	User dir.: TD	Input/Output	Extracted Transactions
PAC7MR	Tmp dir.: WMR	Output	Extracted Transactions for REOR on Administration Base
PAC7MX	Tmp dir.: WMX	Output	Non extracted entities
PAC7IA	User dir.: VINSIA	Report	General Report of Programs 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
STATUS=`pactp info $1 | grep "Server Status" | cut -d: -f2`
if [ "$STATUS" != "Inactive" -a "$STATUS" != "" ]
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/VINSDD.txt`
export PAC7DD
PAC7EE=`BVPENV PVINS PAC7EE $PACUSERS/VINSEE.txt`
export PAC7EE
PAC7EQ=`BVPENV PVINS PAC7EQ $PACUSERS/VINSEQ.txt`
export PAC7EQ
PAC7ER=`BVPENV PVINS PAC7ER $PACUSERS/VINSER.txt`

```



```

export PAC7ER
PAC7ES=~BVPENV PVINS PAC7ES $PACTMP/WES~
export PAC7ES
PAC7EU=~BVPENV PVINS PAC7EU $PACUSERS/VINSEU.txt~
export PAC7EU
PAC7EZ=~BVPENV PVINS PAC7EZ $PACUSERS/VINSEZ.txt~
export PAC7EZ
PAC7IA=~BVPENV PVINS PAC7IA $PACUSERS/VINSIA.txt~
export PAC7IA
PAC7IE=~BVPENV PVINS PAC7IE $PACUSERS/VINSIE.txt~
export PAC7IE
PAC7IF=~BVPENV PVINS PAC7IF $PACUSERS/VINSIF.txt~
export PAC7IF
PAC7IG=~BVPENV PVINS PAC7IG $PACUSERS/VINSIG.txt~
export PAC7IG
PAC7IH=~BVPENV PVINS PAC7IH $PACUSERS/VINSIH.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 Development database 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 Development database and from any session.

EXECUTION CONDITIONS

The database must be closed to on-line processing.

ABNORMAL EXECUTIONS

Refer to the Administrator's Procedures manual, sub-chapter 'Abnormal Ending'.

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

Position	Length	Value	Meaning
		'R'	Retrieval of User Entities with the 'extension' format
		' '	'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 Development database is ready for either on-line or batch use.

For the retrieval, a sequential file of purge transactions for the reorganization procedure can be generated (if 'R' in column 33 in the user input). In that case, the reorganization of the Database with this file is required.

NOTE

Extracted transactions to be used by the REOR procedure are in a file (assigned by PAC7MR) which must be made permanent by substitution.

VINS - Description of Steps

UPDATE OF THE DEVELOPMENT DATABASE : VINS

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

Code	Physical name	Type	Label
PAC7AN	Base dir.: AN	Input	Development Database Index
PAC7AR	Base dir.: AR	Input	Development Database Data
PAC7AY	Base dir.: AY	Input	Development Database Extension
PAC7MA	System - skel. dir.: 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	User dir.: TD	Input Output	Extracted Transactions
PAC7MR	Tmp dir.: WMR	Output	Extracted Transactions for REOR
PAC7MX	Tmp dir.: WMX	Output	Non extracted entities
PAC7IA	User dir.: VINSIA	Report	Complete printing of programs 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
STATUS=`pactp info $1 | grep "Server Status" | cut -d: -f2`
if [ "$STATUS" != "Inactive" -a "$STATUS" != "" ]
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/VINSDD.txt`
export PAC7DD
PAC7EE=~BVPENV PVINS PAC7EE $PACUSERS/VINSEE.txt`
export PAC7EE
PAC7EQ=~BVPENV PVINS PAC7EQ $PACUSERS/VINSEQ.txt`
export PAC7EQ
PAC7ER=~BVPENV PVINS PAC7ER $PACUSERS/VINSER.txt`
export PAC7ER
PAC7ES=~BVPENV PVINS PAC7ES $PACTMP/WES`
export PAC7ES
PAC7EU=~BVPENV PVINS PAC7EU $PACUSERS/VINSEU.txt`
export PAC7EU
PAC7EZ=~BVPENV PVINS PAC7EZ $PACUSERS/VINSEZ.txt`
export PAC7EZ
PAC7IA=~BVPENV PVINS PAC7IA $PACUSERS/VINSIA.txt`
export PAC7IA
PAC7IE=~BVPENV PVINS PAC7IE $PACUSERS/VINSIE.txt`
export PAC7IE
PAC7IF=~BVPENV PVINS PAC7IF $PACUSERS/VINSIF.txt`
export PAC7IF
PAC7IG=~BVPENV PVINS PAC7IG $PACUSERS/VINSIG.txt`
export PAC7IG
PAC7IH=~BVPENV PVINS PAC7IH $PACUSERS/VINSIH.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
  BVPPER
  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 disorganized.

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 disorganized.

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	User 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 disorganized.

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	User dir.: ZS	Output	Database work file

LDZS - 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
```

Retrieval utilities

UTU1 - Extraction of 'P' lines with 'UNS'

PRINCIPLE

This tool is used to extract 'P' lines of programs containing the 'UNS' operator and without any information in the 'Level-Condition type' area. The user will have to verify the output file and delete in this file all the lines he wants to

keep. For the other lines, the 'Level-Condition type' area will have to be set to '99BL' before the UTU2 procedure execution.

EXECUTION CONDITIONS

Specify the result file name of lines to point in the startup Script: NOMUT='...'

RESULT

A file containing UNS 'P' lines to point 'NOMUT'.

UTU1 - Input / Processing / Results

No input.

UTU1 - Description of Steps

Extracting lines 'P' with 'UNS' operator : UTIUN1

Code	Physical name	Type	Label
PAC7PC	Save dir.: PC	Input	Sequential image of the development Database
UTUTO	User dir.: UTUTI	Output	Lines 'P' with 'UNS' for UPDATE

UTU1 - Execution Script

```
#!/bin/sh
#@(#)VA Pac xxx xxx (R) UTU1 BATCH PROCEDURE
# * -----
# *      VISUALAGE PACBASE
# *
# * -----
# *      EXTRACTION OF LINES "P"
# *      WITH OPERATOR "UNS"
# *      WITHOUT LEVEL-CONDITION TYPE
# * -----
# *
# Parameter control
. $PACDIR/system/proc/BVPINIT.ini
echo ""
echo "-----"
BVPMSG 1004 "UTU1"
echo "          ====="
BVPMSG 1047 "$BVPBASE"
BVPMSG 1005 "$PACDIR/config/$1"
BVPMSG 1006 "$PACTMP"
BVPMSG 1073 "$PACUSERS"
echo "-----"
echo ""
BVPPAUSE
BVPMKDIR
```

```

# -----
UTUTO=~BVPENV PTUNS1 UTUTO `dirname $PACUSERS`~/UTUTI`
export UTUTO
. $PACDIR/config/$1/PACSAVPC.ini
PAC7PC=~BVPENV PTUNS1 PAC7PC $PACSAVPC`
export PAC7PC
BVPMSG 1009 "BVPTUNS1"
rtspac BVPTUNS1
RETURN=$?
case $RETURN in
0)
;;
*)
BVPMSG 1012 "BVPTUNS1"
BVPERR
BVPRMTMP
exit $RETURN
;;
esac
# -----
BVPMSG 1010
BVPRMTMP
exit $RETURN

```

UTU2 - Update of 'P' lines with 'UNS'

PRINCIPLE

This tool is used to update the transactions extracted with the UTU1 procedure.

For all the lines in the input file, the 'Level- Condition type' area is set to '99BL'.

EXECUTION CONDITIONS

Specify the result file name of the UTU1 procedure in the startup Script:
 NOMUT='... '

RESULT

A new sequential image of the development database.

UTU2 - Input / Processing / Results

No user input.

UTU2 - Description of Steps

Lines 'P' update with 'UNS' operator : UTIUN2

Code	Physical name	Type	Label
PAC7PC	Save dir.: PC	Input	Sequential image of the development Database
UTUTI	User dir.: UTUTI	Input	Lines 'P' with 'UNS' for UPDATE
PAC7CP	Save dir.: PC-new	Output	New sequential image of the development Database

UTU2 - Execution Script

```
#!/bin/sh
#@(#)VA Pac xxx xxx (R) UTU2 BATCH PROCEDURE
# * -----
# *      VISUALAGE PACBASE
# *
# * -----
# *      UPDATE LINES "P"
# *      WITH OPERATOR "UNS"
# * -----
# *
# Parameter control
. $PACDIR/system/proc/BVPINIT.ini
echo ""
echo "-----"
BVPMSG 1004 "UTU2"
echo "          ====="
BVPMSG 1047 "$BVPBASE"
BVPMSG 1005 "$PACDIR/config/$1"
BVPMSG 1006 "$PACTMP"
BVPMSG 1073 "$PACUSERS"
echo "-----"
echo ""
BVPPAUSE
BVPMKDIR
# -----
UTUTI=`BVPENV PTUNS2 UTUTI \dirname $PACUSERS\~/UTUTI`
export UTUTI
. $PACDIR/config/$1/PACSAVPC.ini
PACSAVPC=`BVPENV PTUNS2 PAC7PC $PACSAVPC`
PAC7PC=$PACSAVPC
export PAC7PC
PAC7CP=$PACSAVPC.NEW
export PAC7CP
BVPMSG 1009 "BVPTUNS2"
rtspac BVPTUNS2
RETURN=?
case $RETURN in
0)
;;
```

```
*)  
  BVPMSG 1012 "BVPTUNS2"  
  BVPERR  
  BVPRMTMP  
  exit $RETURN  
;;  
esac  
# -----  
BVPMSG 1010  
BVPMSG 1016 "PCBACKUP.ini"  
sh $PACDIR/config/$1/PCBACKUP.ini  
BVPRMTMP  
exit $RETURN
```




Part Number: DELIX001352A - 6344

(1P) P/N: DELIX001352A - 6344

