



VisualAge Pacbase 3.0

HELP TO UPGRADE VISUALAGE PACBASE 2.0/2.5 TO VERSION 3.0

Version 2 (September 2000)

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or to the following postal address:

IBM Paris Laboratory
VisualAge Pacbase Support
69, rue de la Vecquerie
44600 Saint-Nazaire
FRANCE

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Preamble

To take advantage of the enhancements carried out or to insure the compatibility of the produced applications and the administration procedures developed by the users, once the database retrieved in 3.0 release, users eventually have to modify their programs and their tools, before giving the repository back to the developers.

The purpose of this document is to give the changes lists since the 2.5 release of VisualAge Pacbase and to show the impacts on:

- the generated cobol, coming from the different generators (On-line, batch, DATA, SQL, DBD, CSSD),
- the dictionary, PAFprograms, batch procedures, the documentation.

Each change is stamped as follow :

- Evolution no ascending compatibility problem
- Correction no ascending compatibility problem
- Impact problem of processing compatibility could possibly be faced, or administration problem

This document is a complement to the ' VisualAge Pacbase 3.0 Installation Guide', in which you will find all the information to retrieve your 2.0/2.5 database.

VisualAge Pacbase 3.0

Administration

Impact **New VisualAge Pacbase Administration WorkStation (C 11776)**

Overview

Administration data is reorganized in the following way:

- . The storage of VisualAge Pacbase parameters has changed.
- . PARM procedure is suppressed.
- . Parameters can be accessed only by a local workstation (the 3270 mode is no longer available).

Physical aspects

Files

From VisualAge Pacbase release 3, the storage physical envelope is a Pacbase database, i.e. the Administration database has its own data files (GR and GY) and index file (GN).

There are also the journal file (GJ), which will be used in the case of a restore with retrieval of archived transactions, and backup files equivalent to PC and PY files.

So AG and AP files no longer exist. The generation-print commands are included in the VisualAge Pacbase database.

On the contrary, the JCL lines (C4 screen), which are specific to a user and apply to each library and session, are stored in the administration database.

For more safety, users' passwords are stored apart from the administration data. Passwords are stored in a new file (GU) which only contains user codes and data used for the management of passwords.

For sites equipped with an external security system (RACF, ...) this file is useless.

Procedures

The following standard procedures for the management of a VA Pac database are available:

- . restoration: RSAD,
- . saving: SVAD,
- . archiving: ARAD,
- . reorganization: ROAD.

Besides these four procedures, two other procedures can be used:

- . UPDT, when transactions are retrieved (included in REST),
- . PUF in Batch mode.

Installation

The following data is given upon installation:

- . data descriptions
- . fixed parameters
- . initial parameters

To enable the connection the first time the Administration workstation is used, there must be at least one user with the maximum authorizations: ADMIN.

(Warning: if there is no administrator user in the database, the '*****' user code will be considered as the administrator, in order to prevent users from being stuck).

Improvements of release 3.0

Site administrator

This concept stems from PARM authorizations. One or more person on the site must be able to define users, enter access keys, reset passwords...

These persons are defined as site administrators ;
hence they have the maximum authorizations everywhere.

List of bases

There is a new entity, called 'Base'. This entity enables, among other things, the creation of cross-references and the memorization of data used when connecting to the workstation.

Profiles

A product profile is a set of initial parameters which apply when a user uses the product.

A profile is defined by a code and a label.

A user can only have one profile for each product.

The authorizations assigned to a user via a profile can be overridden by authorizations specific to that user.

In all cases, the authorizations defined specifically for a user have priority against the profile authorizations.

Password Management

Password management rules are grouped according to the following guidelines, which can be parameterized on the site:

- Historical account: memorization of n last passwords,
- Duration of validity: expiration after n days,
- Restriction of contents: minimum number of characters, numeric characters,

Pac-Transfer

Pac-Transfer parameters are integrated in the administration database. So it is easy to specify them.

Differences with PARM

Network access authorizations

The only difference is the authorization levels.

From release 3, the authorization levels apply to all sessions (current and archived):

'0' No access
'1' Consultation
'2' Update
'3' Administrator.

The definition of the level against a given context remains the same.

Procedures authorization

From now on, this authorization is binary: a user can or cannot submit a procedure. Authorizations can be defined by exception ('All, except...' or 'None, except...') by using the global level (all databases) and the specific level (for a specific database).

For all procedures which accept one identification line only (user, password), the user can or cannot submit the execution of the procedure.

For the other procedures (UPDT, GPRT,), the level is that of the network.
There is no mention here of the Administration database procedures. Only site administrator-type users can submit procedures for the management of the administration database.

Parameters authorizations

This replaces the PARM authorization. From now on, authorizations are specific to a parameter.

There is an authorization for each parameter table:

1. Table of standard error labels,
2. Table of special characters,
3. Table of empty words,
4. Table des text labels,
5. Optional job control command lines,
6. Pac Transfer parameters

ONLY SITE ADMINISTRATORS can:

- . manage users and profiles,
- . define password management rules,
- . manage 'security' entities,
- . define databases.

Text labels: no modification.

Error labels: no modification.

Optional job control command lines: no modification.

Monitoring by DSMS control: no modification.

External security systems: no modification.

Impact **Checking the number of licenses (C 20511)**

Now the checking of users number is no longer based on the calculation of the number of users connected but on the number of users registered.

Evolution **Dynamic MLIB (C 13934)**

It is now possible to create "Virtual libraries" which will then be initialized in TP or batch (MLIB) mode.
The maximum number of libraries in a network is increased from 300 to 595.

Impact **Gathering SAVE, MLIB, SASN and UXSR programs in a new procedure PACS (C 14230)**

SAVE, MLIB, SASN and UXSR: these four procedures are now gathered in a single procedure PACS.

Impact **REST-RESY procedures : modification of the user input (C 17095)**

The input to the database restoration procedure has changed.
The maximum access number having increased by one character (9999 = no limit), each input coming after shifts position (one character move to the right).

Impact **Evolution of VINS procedure (C 18308)**

Delivery of entities extension:

- Retrieval program
- Setup program: a single updating procedure available for all of the extensions provided by IBM

Evolution **Re-initialization of a Library (C 18427)**

In order to avoid a fairly long sequence of jobs (MLIB or REOR for deletion of a Library, REST, MLIB for re-creation of a Library and REST), a new request of MLIB allows to clear the Library's content (same restriction as for a deletion).

Batch procedures

Impact **Evolution of PACX procédure (C 15055)**

- All procedures:

The logical code of the base is printed on the IA report.

- CPSN

As the CPSN procedure is integrated in PACX, it is now possible to generate output transactions in UPDP format:

- enter '1' in the 34th position of the identification line (*' line).

It is also possible to generate explicit transaction codes in the output files:

- set the formatting option to '2' instead of '1' (33rd position of the identification line for UPDT / 34th position of the identification line for UPDP).

- RMEN

Program renaming :

- the code of the generated program and the code for sequence of generation can be modified.

Screen renaming :

- the code of the generated screen and the external code of the map can be modified.

Moving a segment, report, screen or user entity to a higher level library:

- if the D.S., the dialog or the meta-entity does not exist in the specified library but in a higher level library, a message is printed.

Moving and renaming of meta-entities and relationships coming from 2.0/2.5 retrieveval:
cannot be executed

Replace :

the selections are now printed in the report which indicates the number of extracted lines by entity (ED report).

(NB: the selections correspond to the entities in which REPLACE is to be performed).

RMEN of client Meta-Entity ::

the impacted User Entities are printed in the EP report.

RMEN of Data Structure :

the impacted Segments are printed in the EP report.

Locked entities:

You can forbid another user to use the RMEN procedure for locked entities. To make it possible, set the top "Lock management".

The RMEN procedure on locked entities is rejected for a user that has no update authorization.

The RMEN procedure on an entity that is used in a a locked entity is rejected for a user that has no update authorization.

RMEN : Reports processing

The change of code (or replace) for a single report is not authorized. On the other hand, it is possible to rename all the reports that have the same prefix, (two first characters), you just have to enter '*' as the third character. As a result, only the two first characters are modified.

Input format:

```
W2RN R  xx*      or      W2MR R  xx*      or      W2RP R  xx*
W2RNNyy*        W2MREbib        W2RPNyy*
W2RN/           W2MRRyy*        W2RPS
                W2MR/           W2RP/
```

However, it is possible to save a single report.

Input format:

```
W2MV R  xxy
W2MVEbib
W2MV/
```

You can save the whole reports with the same prefix by using the following command:

```
W2MV R  xx*
W2MVEbib
W2MV/
```

Choice R -XP

This choice displays:

- the explicit use of a report in the -CD screen within a program -> the third character of the report is entered in the selection field of the -CD screen.
- the implicit use of a report in the -CD within a program -> blank in the selection field of the -CD screen.

The implicit uses are displayed after the explicit uses.

If a report has only implicit cross-references with the -CD within a program, they are displayed only after explicit -XP choice.

The cross-references do not appear in the screens that are displayed when you press the Enter key successively.

Modification of user input:

First line - concerned entity:

```
-----
!Pos.! Len.! Meaning                                     !
!-----+-----+-----+-----!
!  2 !  2 ! Constant          (W2)                       !
!  4 !  2 ! Processing type (RN/MV/MR/RP)                 !
!  6 !  1 ! Line type ( )                                   !
!  7 !  3 ! Entity type                                       !
! 10 ! 30 ! Entity code                                       !
-----
```

Second line - environment:

```
-----  
!Pos.! Len.! Meaning  
!-----+-----+-----!  
! 2 ! 2 ! Constant (W2)  
! 4 ! 2 ! Processing type (RN/MV/MR/RP)  
! 6 ! 1 ! Line type (E)  
! 7 ! 3 ! Source library for MOVE  
! 10 ! 3 ! Methodology code  
! 13 ! 3 ! 'ALL'  
! 16 ! 6 ! Parent Data Element code  
-----
```

Third line - new codes:

```
-----  
!Pos.! Len.! Meaning  
!-----+-----+-----!  
! 2 ! 2 ! Constant (W2)  
! 4 ! 2 ! Processing type (RN/MV/MR/RP)  
! 6 ! 1 ! Line type (N)  
! 7 ! 30 ! New entity code  
! 37 ! 8 ! For programs and screens, new  
! ! ! generated code  
! 45 ! 6 ! For programs, new code for sequence  
! ! ! of generation  
! 51 ! 8 ! For screens, new external name of  
! ! ! the map  
-----
```

Fourth line - selection for REPLACE :

```
-----  
!Pos.! Len.! Meaning  
!-----+-----+-----!  
! 2 ! 2 ! Constant (W2)  
! 4 ! 2 ! Processing type (RP)  
! 6 ! 1 ! Line type (S)  
! 7 ! 3 ! Entity type  
! 10 ! 30 ! Entity code  
-----
```

Following lines - continuation of selection for REPLACE:

```
-----  
!Pos.! Len.! Meaning  
!-----+-----+-----!  
! 2 ! 2 ! Constant (W2)  
! 4 ! 2 ! Processing type (RP)  
! 6 ! 1 ! Line type (*)  
! 7 ! 3 ! Entity type  
! 10 ! 30 ! Entity code  
-----
```

Last line (required):

```
-----  
!Pos.! Len.! Meaning  
!-----+-----+-----!  
! 2 ! 2 ! Constant (W2)  
! 4 ! 2 ! Processing type (RN/MV/MR/RP)  
! 6 ! 1 ! Line type (/)  
-----
```

- EXTR

Extraction of meta-entities and relationships coming from 2.0/2.5 retrieveval:
- a warning is sent (EZ report).

Extraction with option + :

- if the entity is defined in more than one library, the report which indicates the extracted entities (EZ report) displays all the libraries where the entity is defined.

The number of entities extracted by type is now edited.

EXTR of Data structures :

- Data structures extraction: the segments are extracted by default.

But it is now possible to prevent the extraction of segments by using the EXPT SEG option, even for sites where there is no "in-depth extractor" module.

Modification of user input:

First line:

```
-----  
!Pos.! Len.! Meaning  
!-----+-----+-----!  
! 2 ! 1 ! Line code (W)  
! 3 ! 1 ! Line number (1)  
! 4 ! 2 ! Constant (EX)  
! 6 ! 1 ! Library selection code  
! ! ! (U/C/+)  
! 7 ! 33 ! Entity to be extracted  
! 40 ! 4 ! Extraction type (ALL/ONLY/EXPT)  
! 44 ! ! Table of 12 items on 3 characters  
! ! ! (DEL/DBD/...)  
-----
```

Second line:

```
-----  
!Pos.! Len.! Meaning  
!-----+-----+-----!  
! 2 ! 1 ! Line code (W)  
! 3 ! 1 ! Line number (2)  
! 44 ! ! Table of 12 items on 3 characters  
! ! ! (DEL/DBD/...)  
-----
```

- EXUE

Modification of user input :

```
-----  
!Pos.! Len.! Meaning !  
!-----+-----+-----!  
! 2 ! 4 ! Constant (WLEX) !  
! 6 ! 1 ! '$' for extraction of client M.E. !  
! ! ! 'Y' for extraction of extension M.E. !  
! 7 ! 1 ! Library selection code !  
! ! ! (U/C) !  
! 8 ! 2 ! Code of the M.E. to be extracted !  
-----
```

- EXPJ

it is now possible for a specific user to select the Journal file transactions.

User entry for selection on user code:

- First line, position 80, '*' indicates a continuation line.
- Second line, selection of the user code:

```
----- !  
!POS.! LEN.! VALUE ! MEANING !  
!-----+-----+----- !  
! 2 ! 1 ! 'J' ! Line code !  
! 3 ! 1 ! '*' ! ! !  
! 4 ! 8 ! !uuuuuuuu! User code !  
----- !
```

- EXPU

It is now possible to extract:

- the entities which have never been used (purge via REOR),
- the entities which have not been used in the current session since a given session, that is entities which have already been used but which are now obsolete (purge via UPDT or UPDP),
- the entities which are not used in a given session (purge via UPDT or UPDP),
- the cancelled frozen sessions in order to purge them via REOR,
- the users referenced in VA Pac (GP commands) and who no longer exist in the Administration database in order to purge them via REOR,
- the cancelled libraries in order to purge them via REOR.

Options now make it possible to print the session of the last update as well as the last user who updated the entity, with the update date.

The report output by EXPU also indicates the duplicate entities in the sub-network.

Impact

Batch update procedure: transactions recycling (C 17140)

The batch update procedure prints the transactions as they were entered (UPDT or UPDP) and recycles the erroneous transactions.

Pacbase Access Facility

Evolution **Access to PEI entities, user parameters, generation and print commands via PAF. (C 11770)**

As a result of the new management of entities in the Repository, all data items are accessible via the PAF utility.

The PEI entities are integrated in the VisualAge Pacbase Repository. The user parameters are managed in the administration workspace.

See in annex the list of PAF/PUF tables created, modified and removed.

Dictionary extensibility

Impact **Recasting of User Entity Occurrences : description of the meta-entity (C 13579)**

1. GROUP DATA ELEMENT - ELEMENTARY FIELD:

A group data element is assigned in a description to the identifier that is used for the definition or a description of a user entity.

2. UNIQUENESS LIST OR LAYOUT LIST:

You can ask up to 5 lists for each type.

3. MOTHER / CHILD DESCRIPTION:

You can set a description as child of another one so that you are not restricted to two folder levels.

4. LONG ID:

It is the identifier defined in the meta-entity (type of line I). It can be a group field of 1 to 30 characters long for a user entity definition, or 1 to 20 characters long for user entity descriptions.

5. SHORT ID:

It is the identifier defined in the meta-entity (type of line S) used to double the long identifier for specific uses (relation call for example).

Activity analysis

Evolution **ACTI Facility: changes (C 14183)**

Selection on hour, session, version, transaction code.

New indexes taken into account

Generators

Impact **Monitoring option for job output (C 19975)**

This new functionality allows the VisualAge Pacbase user to observe the job output produced by batch and TP GPRT procedures.

The new choice for TP GPRT procedure is LJOB. It displays the list of executed jobs submitted by the connected user.

It is possible to display details of the execution report (it corresponds to the IA report for the batch GPRT procedure).

A LB file is created to save job output at installation.

Dialog Client/Server generator

Evolution **New communication monitors: IMS SOCKET, MQBRIDGE and CICS MQBRIDGE. (C 20148)**

New monitors IMS and CICS taken into account.

IMS: IMS SOCKET and MQBRIDGE CICS: MQBRIDGE

The length of the message useful for IMS is taken into account.

Evolution **New Service : Read instances collection from a keys collection (C 20149)**

New service introduction (coded 'RM'): Read a collection of instances from a collection of keys.

Miscellaneous

Evolution **Time-stamp on all VA Pacbase entities (C 17141)**

When an entity is modified, a lock-type record will be updated.

It will contain the date and the time of the update, and possibly a lock.

It will be updated, even for a deletion.

Evolution **The maximum number of access possible to VisualAge Pacbase Dictionary is now limited to 9998. (C 17142)**

Impact **Database locked when session number reaches 9990 (C 17367)**

To avoid a reset to 0 of the Database session number once it has reached 9999, and to allow time to the Database Administrator for a backup execution, before that of the Session Compression Utility, the Database automatically locks when its session number reaches 9990.

Impact **New choice : List of user locks (C 17526)**

The notion of technical lock (station) does not exist anymore. There are no more locks on descriptions.

With this choice, it is possible to create or delete the lock or transfer it to another user.

Impact Frozen Sessions Management (C 17701)

It is now possible to freeze a session online in a screen called with the LCH choice (LH choice no longer available).

If the connected user is not authorized, this screen is read-only.

THE FIELDS IN THE SESSION FREEZE SCREEN

SESSION NUMBER: By default, the number of the frozen session is identical to that of the original session frozen. You may change that number provided that it is lesser than the number of the session to freeze + 100.

SESSION STATUS: This field may be modified only, in relation to an already frozen session.

- blank: Required (default) value when freezing a session.

Read-Write data access allowed.

- 'N' : Read-Only data access allowed.

- 'D' : Data cannot be accessed; the session is logically deleted.

FREEZE DATE: Uneditable field.

SHORT LABEL: Default = frozen session number. This label must be unique. The LRH screen displays the list of frozen sessions sorted ascendingly on this short label.

SESSION NUMBER BEFORE COMPRESSION: Uneditable field.

USER CODE: Uneditable field.

LONG LABEL: Required input.

The LNH screen displays the list of frozen sessions sorted ascendingly on this long label.

NOTE: You may not delete a frozen session. You may modify characteristics of a frozen session.

Any update in the LCH screen must be made connected to the Inter-Library and the current session.

Impact Generation-Print requests remodeled for V3 (C 17905)

Generation-Print requests are now stored in the VA Pac Database as User Entities. (The AG file no longer exists)

The GP screen (for online GPRT requests) has been modified:

- Order numbers no longer exists,

- The GP choice may be completed with the request command; the displayed requests list will begin with that command.

- New way to call for a Continuation Line.

- Change in OPERATION CODE.

The GP screen now follows standard rules:

-OPTION C1: Connected user's GPRT requests made in the connection Library and upper Libraries.

-OPTION I1: Connected user's GPRT requests made in all Libraries (Inter-Library).

-OPTION C2: Connected user's validated lines (GPRT requests and job command lines) made in the connection Library and upper Libraries. Uneditable screen.

-OPTION I2: Connected user's validated lines (GPRT requests and job command lines) made in all Libraries (Inter-Library). Uneditable screen.

-OPTION C4: Connected user's job command lines. Library notion irrelevant in this context. Such lines are stored in the Administration Database.

-OPTION C3: no longer exists.

Journalizing of GPRT requests

Possibility to use lowercase in continuation lines (with the 'x' action code).

See in annex the list of generation and print requests created, modified and removed.

Evolution **Input Aid Description: Online check on overall length (C 18451)**

The overall length of parameters in an Input Aid Description cannot be longer than 450 characters.

This is now checked online as the Input Aid Description is being entered.

Evolution **Control on number of accesses: message must be sent before any line display (C 18791)**

From now on, the message "Maximum number ..." is displayed as soon as the maximum number of authorized accesses are performed, whether a line is to be displayed or not.

Impact **The Report entity is no longer dependent on the Data Structure entity. (C 20271)**

The Report entity is no longer dependent on the Data Structure entity.

Evolution **The VA Pac Database logical code now appears in the sign-on screen. (C 20448)**

ANNEXES

Compatibility

VisualAge Pacbase 3.0 and DSMS 2.0/2.5

New programs PDS600 and PDS610 are shipped with VA Pacbase 3.0: these programs, used by DSMS procedure DEXP, are working with a VA Pacbase 3.0 journal file, and allow a full compatibility with DSMS 2.0/2.5.

VisualAge Pacbase 3.0 and Pactables 2.0/2.5

New programs PACT40, PACT45 and PACT50 from GETA and GETD procedures allow the compatibility with Pactables 2.0/2.5.

PAF/PUF TABLES

New PAF and PUF tables

English Table	French Table	Choice
\$TTCAL	\$TTAPP	\$,,,CR
\$TTXCRLCAL	\$TTXRLCAPP	\$,,,XQ on -CR
\$TTXCRLDEF	\$TTXRLCDEF	\$,,,XQ on DEF \$
\$TTXCRLDSC	\$TTXRLCDSC	\$,,,XQ on DSC \$
LIBCAL	BIBAPP	*,,,CR
LIBXCRLCAL	BIBXRLCAPP	*,,,XQ on -CR
LIBXCRLDEF	BIBXRLCDEF	*,,,XQ on -DEF \$
LIBXCRLDSC	BIBXRLCDSC	*,,,XQ on DSC \$
LIBXERLCAL	BIBXRLEAPP	*,,,XZ on -CR
LIBXERLDEF	BIBXRLEDEF	*,,,XZ on -DEF \$
LIBXERLDSC	BIBXRLEDSC	*,,,XZ on DSC \$
FICCAL	CIFAPP	M(C),,,CR
FICXCRLCAL	CIFXRLCAPP	M(C),,,XQ on -CR
FICXCRLDEF	CIFXRLCDEF	M(C),,,XQ on DEF \$
FICXCRLDSC	CIFXRLCDSC	M(C),,,XQ on DSC \$
FICXERLCAL	CIFXRLEAPP	M(C),,,XZ on -CR
FICXERLDEF	CIFXRLEDEF	M(C),,,XZ on DEF \$
FICXERLDSC	CIFXRLEDSC	M(C),,,XZ on DSC \$
DBDCAL	DBDAPP	B,,,CR
DBDDS*GEN	DBDDS*GEN	B,,,Dx,,,GG
DBDGEN	DBDGEN	B,,,GG
DBDOPT	DBDOPT	B,,,GO
DBDXCRLCAL	DBDXRLCAPP	B,,,XQ on -CR
DBDXCRLDEF	DBDXRLCDEF	B,,,XQ on DEF \$
DBDXCRLDSC	DBDXRLCDSC	B,,,XQ on DSC \$
DBDXERLCAL	DBDXRLEAPP	B,,,XZ on -CR
DBDXERLDEF	DBDXRLEDEF	B,,,XZ on DEF \$
DBDXERLDSC	DBDXRLEDSC	B,,,XZ on DSC \$
SCRCAL	ECRAPP	O,,,CR
SCRERR	ECRERR	O,,,GE
SCRGEN	ECRGEN	O,,,GG
SCROPT	ECROPT	O,,,GO
SCRXCRLCAL	ECRXRLCAPP	O,,,XQ on -CR
SCRXCRLDEF	ECRXRLCDEF	O,,,XQ on DEF \$
SCRXCRLDSC	ECRXRLCDSC	O,,,XQ on DSC \$
SCRXERLCAL	ECRXRLEAPP	O,,,XZ on -CR
SCRXERLDEF	ECRXRLEDEF	O,,,XZ on DEF \$
SCRXERLDSC	ECRXRLEDSC	O,,,XZ on DSC \$
RPTCAL	ETAAPP	R,,,CR
RPTXCRLCAL	ETAXRLCAPP	R,,,XQ on -CR
RPTXCRLDEF	ETAXRLCDEF	R,,,XQ on DEF \$
RPTXCRLDSC	ETAXRLCDSC	R,,,XQ on DSC \$
RPTXERLCAL	ETAXRLEAPP	R,,,XZ on -CR
RPTXERLDEF	ETAXRLEDEF	R,,,XZ on DEF \$
RPTXERLDSC	ETAXRLEDSC	
PIACAL	FOGAPP	I,,,CR
PIAXGEN	FOGXGEN	I,,,XGG
PIAXOPT	FOGXOPT	I,,,XGO
PIAXCRLCAL	FOGXRLCAPP	I,,,XQ on -CR
PIAXCRLDEF	FOGXRLCDEF	I,,,XQ on DEF \$

PIAXCRLDSC	FOGXRLCDSC	I,,, XQ on DSC \$
PIAXERLCAL	FOGXRLLEAPP	I,,, XZ on -CR
PIAXERLDEF	FOGXRLLEDEF	I,,, XZ on DEF \$
PIAXERLDSC	FOGXRLLEDSC	I,,, XZ on DSC \$
KWDDEF	MCLDEF	K,,,
CMECAL	MECAPP	F,,,CR
CMEDEF	MECDEF	F,,,
CMEDOC	MECDOC	F,,,GC
CMEDSE	MECDSE	F,,,CE top
CMEDEL	MECRUB	F,,,CE data element
CMETXT	MECTXT	F,,,AT
CMEXVOL	MECXRAP	F,,,XV
CMEXCRLCAL	MECXRLCAPP	F,,, XQ on -CR
CMEXCRLDEF	MECXRLCDEF	F,,,XQ on DEF \$
CMEXCRLDSC	MECXRLCDSC	F,,,XQ on DSC \$
EMECAL	MEEAPP	1,,,CR
EMEDEF	MEEDEF	1,,,
EMEDOC	MEEDOC	1,,,GC
EMEDSE	MEEDSE	1,,,CE top
EMEDEL	MEERUB	1,,,CE data element
EMETXT	MEETXT	1,,,AT
EMEXVOL	MEEXRAP	1,,,XV
EMEXCRLCAL	MEEXRLCAPP	1,,,XQ on -CR
EMEXCRLDEF	MEEXRLCDEF	1,,,XQ on DEF \$
EMEXCRLDSC	MEEXRLCDSC	1,,,XQ on DSC \$
EMEXERLCAL	MEEXRLEAPP	1,,,XZ on -CR
EMEXERLDEF	MEEXRLEDEF	1,,,XZ on DEF Y
EMEXERLDSC	MEEXRLEDSC	1,,,XZ on DSC Y
OBJCAL	OBJAPP	M(O),,,CR
OBJXCRLCAL	OBJXRLCAPP	M(O),,,XQ on -CR
OBJXCRLDEF	OBJXRLCDEF	M(O),,,XQ on DEF \$
OBJXCRLDSC	OBJXRLCDSC	M(O),,,XQ on DSC \$
OBJXERLCAL	OBJXRLEAPP	M(O),,,XZ on -CR
OBJXERLDEF	OBJXRLEDEF	M(O),,,XZ on DEF \$
OBJXERLDSC	OBJXRLEDSC	M(O),,,XZ on DSC \$
PGMCAL	PGMAPP	P,,,CR
PGMOPT	PGMOPT	P,,,GO
PGMXCRLCAL	PGMXRLCAPP	P,,,XQ on -CR
PGMXCRLDEF	PGMXRLCDEF	P,,,XQ on DEF \$
PGMXCRLDSC	PGMXRLCDSC	P,,,XQ on DSC \$
PGMXERLCAL	PGMXRLEAPP	P,,,XZ on -CR
PGMXERLDEF	PGMXRLEDEF	P,,,XZ on DEF \$
PGMXERLDSC	PGMXRLEDSC	P,,,XZ on DSC \$
VOLCAL	RAPAPP	V,,,CR
VOLXCRLCAL	RAPXRLCAPP	V,,,XQ on -CR
VOLXCRLDEF	RAPXRLCDEF	V,,,XQ on DEF \$
VOLXCRLDSC	RAPXRLCDSC	V,,,XQ on DSC \$
VOLXERLCAL	RAPXRLEAPP	V,,,XZ on -CR
VOLXERLDEF	RAPXRLEDEF	V,,,XZ on DEF \$
VOLXERLDSC	RAPXRLEDSC	V,,,XZ on DSC \$
RELCAL	RELAPP	M(R),,,CR
RELXCRLCAL	RELXRLCAPP	M(R),,,XQ on -CR
RELXCRLDEF	RELXRLCDEF	M(R),,,XQ on DEF \$
RELXCRLDSC	RELXRLCDSC	
RELXERLCAL	RELXRLEAPP	M(R),,,XZ on -CR
RELXERLDEF	RELXRLEDEF	M(R),,,XZ on DEF \$
RELXERLDSC	RELXRLEDSC	
CRLCAL	RLCAPP	Q,,,CR

CRLDEF	RLCDEF	Q,,,
CRLDOC	RLCDOC	Q,,,GC
CRLTXT	RLCTXT	Q,,,AT
CRLXCAL	RLCXAPP	Q,,,XQ on -CR
CRLXUEODEF	RLCXO\$DEF	Q,,,X\$ DEF
CRLXUEODSC	RLCXO\$DSC	Q,,,X\$ DSC
CRLXVOL	RLCXRAP	Q,,,XV
CRLXCRLCAL	RLCXRLCAPP	Q,,,XQ on -CR
CRLXCRLDEF	RLCXRLCDEF	Q,,,XQ on DEF \$
CRLXCRLDSC	RLCXRLCDSC	Q,,,XQ on DSC \$
CRLXERLCAL	RLCXRLCAPP	Q,,,XZ on -CR
CRLXERLDEF	RLCXRLCDEF	Q,,,XZ on DEF Y
CRLXERLDSC	RLCXRLCDSC	Q,,,XZ on DSC Y
ERLCAL	RLEAPP	Z,,,CR
ERLDEF	RLEDEF	Z,,,
ERLDOC	RLEDOC	Z,,,GC
ERLTXT	RLETXT	Z,,,AT
ERLXCAL	RLEXAPP	Z,,,X on -CR
ERLXUEODEF	RLEXO\$DEF	Z,,,X\$/Y DEF
ERLXUEODSC	RLEXO\$DSC	Z,,,X\$/Y DSC
ERLXVOL	RLEXRAP	Z,,,XV
ERLXCRLCAL	RLEXRLCAPP	Z,,,XQ on -CR
ERLXCRLDEF	RLEXRLCDEF	Z,,,XQ on DEF \$
ERLXCRLDSC	RLEXRLCDSC	Z,,,XQ on DSC \$
ERLXERLCAL	RLEXRLEAPP	Z,,,XZ on -CR
ERLXERLDEF	RLEXRLEDEF	Z,,,XZ on DEF Y
ERLXERLDSC	RLEXRLEDSC	Z,,,XZ on DSC Y
DELCAL	RUBAPP	E,,,CR
DELERR	<u>RUBERR</u>	E,,,GE
DELXSCRERR	RUBXECRERR	E,,,XOGE
DELXCRLCAL	RUBXRLCAPP	E,,,XQ on -CR
DELXCRLDEF	RUBXRLCDEF	E,,,XQ on DEF \$
DELXCRLDSC	RUBXRLCDSC	E,,,XQ on DSC \$
DELXERLCAL	RUBXRLCAPP	E,,,XZ on -CR
DELXERLDEF	RUBXRLCDEF	E,,,XZ on DEF \$
DELXERLDSC	RUBXRLCDSC	E,,,XZ on DSC \$
DSTCAL	SDOAPP	D,,,CR
DSTERR	SDOERR	D,,,GE
DSTXCRLCAL	SDOXRLCAPP	D,,,XQ on -CR
DSTXCRLDEF	SDOXRLCDEF	D,,,XQ on DEF \$
DSTXCRLDSC	SDOXRLCDSC	D,,,XQ on DSC \$
DSTXERLCAL	SDOXRLEAPP	D,,,XZ on -CR
DSTXERLDEF	SDOXRLEDEF	D,,,XZ on DEF \$
DSTXERLDSC	SDOXRLEDSC	D,,,XZ on DSC \$
SEGCAL	SEGAPP	S,,,CR
SEGERR	SEGERR	S,,,GE
SEGEN	SEGEN	S,,,GG
SEGOPT	SEGOPT	S,,,GO
SEGRUBERR	SEGRUBERR	S,,,CE,,,GE
SEGRUBGEN	SEGRUBGEN	S,,,CE,,,GG
SEGXCRLCAL	SEGXRLCAPP	S,,,XQ on -CR
SEGXCRLDEF	SEGXRLCDEF	S,,,XQ on DEF \$
SEGXCRLDSC	SEGXRLCDSC	
SEGXERLCAL	SEGXRLEAPP	S,,,XZ on -CR
SEGXERLDEF	SEGXRLEDEF	S,,,XZ on DEF \$
SEGXERLDSC	SEGXRLEDSC	
TXTCAL	TXTAPP	T,,,CR
TXTXCRLCAL	TXTXRLCAPP	T,,,XQ on -CR

TXTXCRLDEF	TXTXRLCDEF	T,,,XQ on DEF \$
TXTXCRLDSC	TXTXRLCDSC	T,,,XQ on DSC \$
TXTXERLCAL	TXTXRLEAPP	T,,,XZ on -CR
TXTXERLDEF	TXTXRLEDEF	T,,,XZ on DEF \$
TXTXERLDSC	TXTXRLEDSC	T,,,XZ on DSC \$
YTTCAL	YTTAPP	Y,,,CR
YTTDOC	YTTDOC	Y,,,GC
YTTTXX	YTTTXX	Y,,,AT
YTTXVOL	YTTXRAP	Y,,,XV
YTTXCRLCAL	YTTXRLCAPP	Y,,,XQ on -CR
YTTXCRLDEF	YTTXRLCDEF	Y,,,XQ on DEF \$
YTTXCRLDSC	YTTXRLCDSC	Y,,,XQ on DSC \$
YTTXERLCAL	YTTXRLEAPP	Y,,,XZ on -CR
YTTXERLDEF	YTTXRLEDEF	Y,,,XZ on DEF Y
YTTXERLDSC	YTTXRLEDSC	Y,,,XZ on DSC Y

PAF and PUF tables modified

English table	French table	Choice
LIBDEF	BIBDEF	* ,,,
LOCKS	BLOCAGE	Locked entities
WORDSEARCH	MOTCLE	WS
FROZENSES	SESHIS	LCH

PAF and PUF tables removed

English table	French table
MANDEF	MANDEF
MANDOC	MANDOC
MANDSC	MANDSC
MANXUREDEF	MANXRLUDEF
MANXUREDOC	MANXRLUDOC
MANXUREDSC	MANXRLUDSC
TXTXMAN	TXTXMAN

FILES

New files

Files from Administration space

GR : data
GY : data extension
GN : index
GJ : journal
GU : user

PK : archival

VA Pacbase database files

AY : data extension
LB : job-follow

Files changed

Files from Administration space

PE : database backup

From fixed format 80 char. To variable format 1023 char.

VA Pacbase database files

AN : index

Record length from 54 to 59
Key length from 43 to 49

AR : data

Record length from 140 to 144

AJ : journal

Record length from 167 to 170

PC : database backup

Record length from 155 to 1023

PJ : journal backup

Record length from 167 to 170

Files from PAF module

GS : extraction schemes

Record length from 203 to 209
Key length from 25 to 49

Files removed

System file

AP : user parameters
Included in Administration space

VA Pacbase database files

AG : generation-printing request
Included in AN and AR files

PG : generation-printing request backup
Included in PC file

Pac/Transfer file

UV : Parameters
Included in Administration space

PEI files

AB : PEI batch
Included in AN and AR files

AC: PEI TP
Included in AN and AR files

PP: PEI backup
Included in PC file

PROCEDURES

New procedures

Procedure	Comment
ARAD	Administration space archival
INGU	Initialization GU file
ROAD	Administration space reorganization
RSAD	Administration space restauration
PACG	Administration space backup
VING	Update of meta-entities administration
PACS	VA Pacbase database management
PC25	VA Pacbase database retrieval
PE25	AE file retrieval
PG20	PG 2.0 file retrieval
PG25	PG 2.5 file retrieval
UV25	UV file retrieval
TRED	Pac/Transfer : parameters report

Procedures removed

Procedure	Programs	Comment
CPSN	PTU850 PTU855	Replaced by PACX procedure
EMSN	PTU810	No more maintained
MESN	PTU815	" "
MLIB	PTU100 PTU120	Replaced by PACS procedure
SASN	PTU130 PTU140	" "
SAVE	PTU500	" "
UXSR	UTIXSR	" "
CRYP	PACU99	Managed in Administration space
PARM	PACU15 PACU80	" "
LOAE	PACU80	" "
REAG	PTU560	" "
SVAG	PTU550	" "
GET0	PACTI1	No more maintained
GET1	PACT41	" "
GET2	PACT41 PACT51	" "
RVDE	PREI00 PRE986	No more maintained
RVKE	PREI40 PREI50	" "
TRRT	REUV802 PTUG90	No more maintained
VDWN	PVA100 PVA110	No more maintained
VPUR	PVA400	" "
VPU1	PVA300 PVA305 PVA310	" "
VPU2	PVA320	" "
LVBL	PTULVB	Included in PACS procedure
QREO	PTUN00 PTUN10 PTUN40	No more maintained
RPPG	PTU908	No more maintained
RPTD	PTAR20	" "

GENERATION-PRINTING REQUESTS

New requests

DCY	Description of Extension User entities
DCZ	Description of Extension Relationships
LAE	List of Data elements by cobol name
LCY	List of all Extension User entities
LCZ	List of all Extension Relationships
LKY	List of User entities extension by label
LN\$	List of User entities by label
LNB	List of database blocks by label
LND	List of Data structures by label
LNF	List of Meta-entities by label
LNI	List of Input aids by label
LNP	List of Programs by label
LNQ	List of User-Defined relationships by label
LNR	List of Reports by label
LNS	List of Segments by label
LNT	List of Texts by label
LNV	List of Volumes by label
LNY	List of User entities EXT. by label
LNZ	List of Extension Relationships by label
LOD	List of Data structures by external name of screens
LOT	List of Screens by transaction code

Requests modified

DC\$	Description of User entities
DCF	Description of Meta-Entities
LC\$	List of all User entities
LCF	List of all Meta-Entities
LK\$	List of User entities by keyword
LKF	List of Meta-Entities by keyword
LTO	List of Screens by type
LNO	List of Screens by label

Requests removed

LACE	List of Data Elements by Cobol name
DCU	Description of User manuals by code
LCU	List of User Manuals by code
LKU	List of User manuals by keyword
PCU	Print selected User Manuals
GE6	Generation of error messages for a (R6) file

THE CHOICE FIELD

New choices

All entities

The screen "Comments" (-G) is splitted in several screens:

- Choice -GC replaces choice -G for all entities
- Choice -CR handles the calls of entities by relationship
- Choice -GO concerns options and parameters for screens or dialogs (dedicated to Library, Segment, Database block, Screen and Program entities)
- Choice -GG concerns the database blocks generation (dedicated to Segment, Database block and Screen entities)
- Choice -GE concerns the generation of error messages (dedicated to Data Structure , Screen and Segment entities)

Choice -XZ gives the Cross-References of the entity to the User relationships extension

Choice -XY gives the Cross-References of the entity to the User Entities extension

Menu

- HEX1 Sub-Menu Use of data element
- HEX2 " "
- HML Sub-Menu List Methodology

List

- LAE List of data elements by cobol name (replaces choice LACE)
- LCH List of frozen Sessions (replaces choice LH)
- LCY List of User-entities Extension
- LCZ List of all extension Relationships
- LDE List of children data elements of a parent data element
- LN\$ List of User entities by label
- LN* List of Libraries by label
- LNB List of database blocks by label
- LND List of Data structuresby label
- LNF List of Meta-Entities by label
- LNH List of frozen Sessions by label
- LNI List of Input aids by label
- LNP List of Programs by label
- LNQ List of User relationships by label
- LNR List of reports by label
- LNS List of Segments by label
- LNT List of Texts by label
- LNV List of Volumes by label
- LNy List of User entities extension by label
- LNz List of Extension relationships by label
- LOD List of Data structures by external name of screens
- LOT List of Screens by transaction code (replaces choice LTO)
- LRE List of Data elements by Relational name (replaces choice LARE)
- LRH List of frozen Sessions by short name
- LS\$ List of User entities by short name
- LSy List of User entities extension by short name
- LT\$ List of User entities by type of entity
- LTF List of Meta Entities by calling type
- LTQ List of Relations by type of entity

LTY List of User entities extension by type of entity
LTZ List of extension Relationships by type of entity
LKY List of User entities extension by keyword
LXO List of Objects by label
LXR List of Relations by label

Database block

B -GN Generation of SQL commands (replaces choice B -GEN)

User meta-entity

F -LD List of the descriptions of the Meta entity

User-entity extension

Y Definition of user-entity extension
Y -AT Assign text
Y -D Description
Y -D ID Description from an identifier
Y -X Cross-References
Y -XQ Cross-References to User relationships
Y -XV Cross-References to volumes

Extension relationship

Z Definition of the extension relationship
Z -AT Assign text
Z -X Cross-References
Z -XQ Cross-References to User relationships
Z -XV Cross-References to volumes

Choices modified

List

LNO List of Screens by label
LTO List of Screens by type

Choices removed

List

LACE replaced by LAE
LARE replaced by LRE
LH replaced by LCH

User manual

U
U -G
U -XQ
U -D
LCU

Database block

B -GEN replaced by B -GN