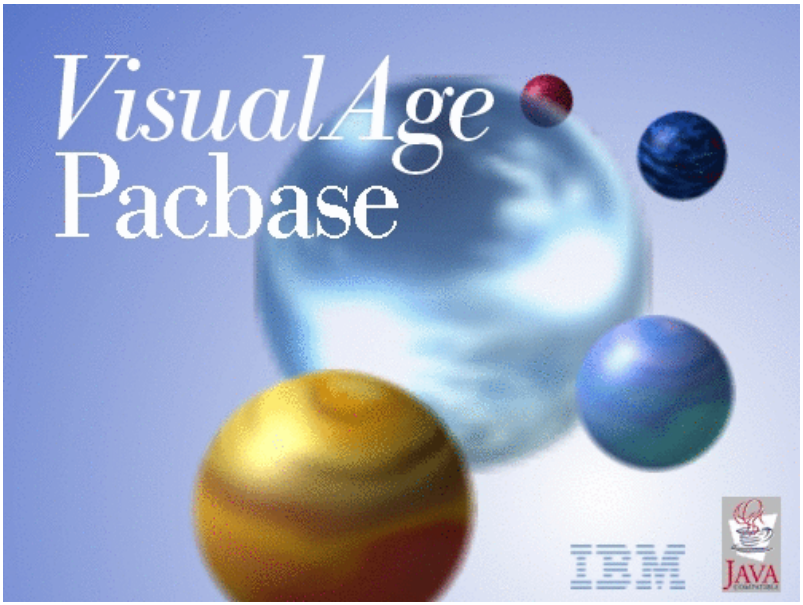
VisualAge Pacbase

VisualAge Pacbase/ENDEVOR Interface - TSO CICS/MVS

Version 3.5



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Note

Before using this document, read the general information under "Notices" on page v.

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Contents

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Chapter 1. General Presentation

Introduction - Vocabulary

ENDEVOR is an integrated configuration management product which manipulates source programs, load modules, JCL, etc. It provides control functions and development guidelines for applications and for their operational implementation.

The VA Pac/ENDEVOR Interface makes it possible to integrate VA Pac generated objects into the ENDEVOR management environment.

The Interface enables you to know:

- in VA Pac: the ENDEVOR 'target' contexts where the the generated objects are managed: Environment, Stage, System, Sub-system and Type;
- in ENDEVOR: the 'source' context of these VA Pac objects: Library Code, Session Number, User Code, Generation Date and Time.

Definitions

From the VA Pac entities, the Interface produces two objects which have to be imported to ENDEVOR:

- The first one is the generated source itself, coming from the VA Pac entities;
- The second one contains the generation context of the first one (i.e. the Library Code, the Session Number, the User Code, and the Generation Date and Time). This object has a purely functional role, and cannot be manipulated outside the Interface.

In this manual, we name:

- VA Pac ELEMENT any Source or Load object that comes from a VA Pac generation and that is managed in ENDEVOR;
- INFOPAC ELEMENT the associated object that contains the context of the VA Pac ELEMENT generation.

To each VA Pac ELEMENT corresponds one INFOPAC ELEMENT, which has the same name, and is located in the same ENDEVOR context.

Immportant: The VA Pac / ENDEVOR interface (and by extension all the configuration tools) only manage the entities of the sessions put into production. For more information, refer to the documentation of the Generic Interface.

Chapter 2. Description of the Interface Elements

VA Pac Element

The VA Pac/ENDEVOR interface manages objects generated from the following VA Pac entities:

- the Program entity,
- the Screen entity,
- the Database Block entity,
- the Copy clauses of the Data Structure entity,
- the eBusines Application entity,
- the Folder entity,
- the Initialization/Termination Server entity,
- the Communication Monitor entity,
- the Elementary Component entity.

Each generated VA Pac object becomes a VA Pac ELEMENT in ENDEVOR.

The VA Pac ELEMENT can be managed in ENDEVOR as a generated source compilable by an ENDEVOR Process, or as a Load form.

A VA Pac entity can correspond to several generated objects found in several different ENDEVOR contexts. The entity can therefore correspond to several VA Pac Elements in ENDEVOR.

Infopac Element

A VA Pac ELEMENT is always accompanied by an INFOPAC ELEMENT in the same ENDEVOR environment. The INFOPAC ELEMENT contains the generation context of the VA Pac ELEMENT. Its presence in ENDEVOR enables you to find the corresponding source VA Pac ELEMENT. The two ELEMENTs have the same code, which is the external name of the generated VA Pac entity instance. The only difference between the ELEMENTs is the TYPE.

By using appropriate Before and After commands, the generation of a VA Pac instance produces the VA Pac ELEMENT automatically followed by the INFOPAC ELEMENT.

The INFOPAC ELEMENT contains the following information:

- Nature of the VA Pac ELEMENT (=Entity code: P, O...)

- Generated VA Pac entity instance code
- VA Pac ELEMENT code (VA Pac external name)
- VA Pac database code
- Library code
- Generation session number
- Generation date
- Generation time
- User code

Table of the VA Pac Objects' TYPES

The objects which come from the generation of VA Pac entity instances must have specific TYPEs in ENDEVOR. Thanks to these TYPES, the interface can recognize these objects and differentiate them from the other objects managed in ENDEVOR.

In an ENDEVOR context, a VA Pac ELEMENT is always accompanied by an INFOPAC ELEMENT which has the same code but a different TYPE. The interface establishes a link between them using the correspondence of pre-defined types in the TYPEs TABLE.

The TYPEs TABLE contains all the TYPEs reserved for the VA Pac ELEMENTS managed by ENDEVOR and all the corresponding TYPEs of INFOPAC ELEMENTS.

A VA Pac ELEMENT TYPE corresponds to one and only one INFOPAC ELEMENT TYPE. A VA Pac ELEMENT TYPE already defined cannot be used as an INFOPAC ELEMENT TYPE, and vice versa.

WARNING: The Endevor administrator must update the VA Pac ELEMENTS' TYPEs and the INFOPAC ELEMENTS' TYPES in the TYPE DEFINITION screen of the Computer Associates system BEFORE using the interface.

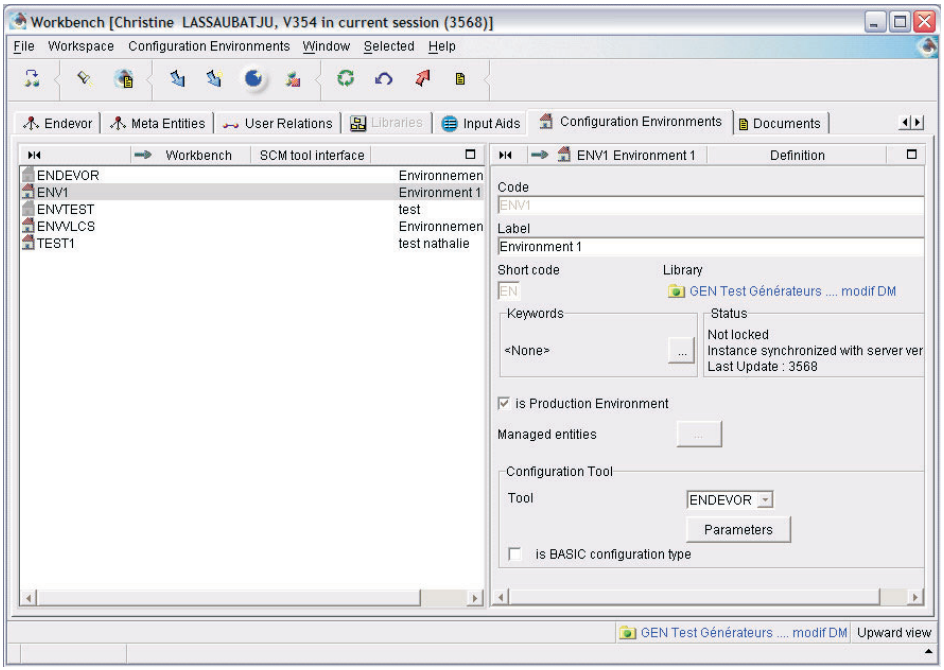
The Endevor administrator must also enter an 'I' in the regression severity field (REGR SEV field in the TYPE DEFINITION screen).

It is advised not to reuse TYPEs that already exist in Endevor and assign them to VA Pac ELEMENTs.

The Predefined Meta-Entity of the 'SCM' Interface

The Endevor context of the VA Pac generated objects is memorized in the VA Pac repository. The VA Pac user can then locate each generated object in the Endevor environment.

The Endevor target environments where VA Pac ELEMENTs are imported are defined in the 'Configuration Environments' tab of Administrator workbench.



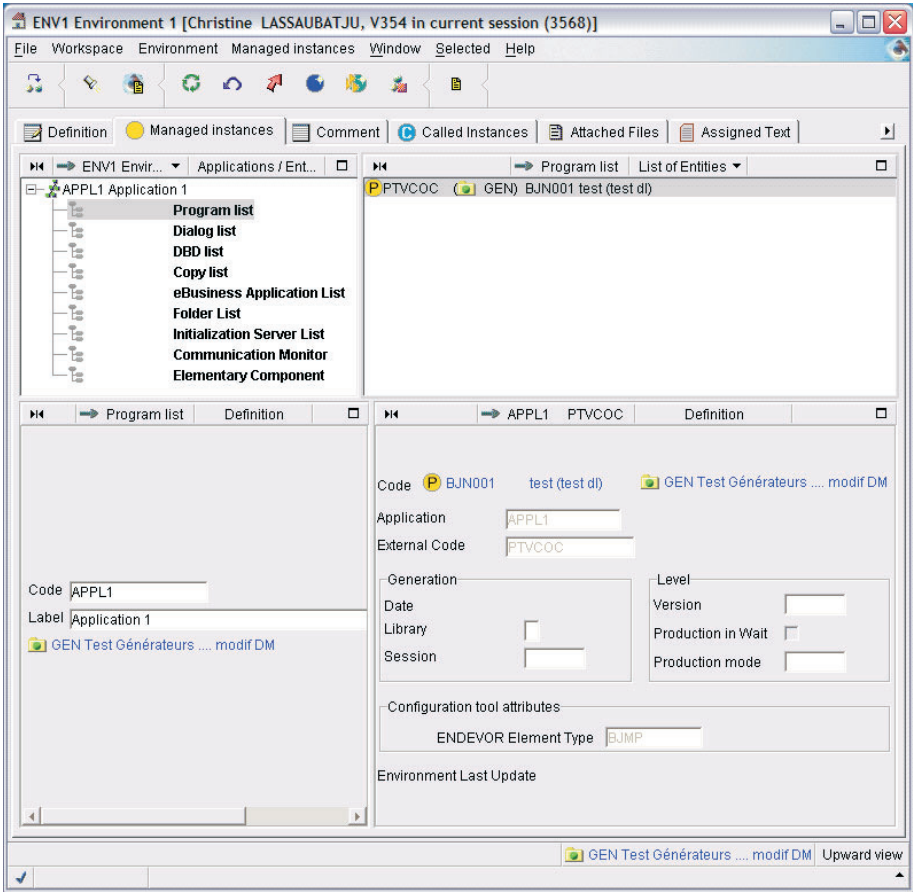
Each ENDEVOR target environment can contain a list of VA Pac entities to be generated.

These VA Pac entities are grouped in applications. A generated element can then be identified by: 'application / external name' inside an environment (default application: '**********').

A description is reserved for each type of VA Pac entity to be generated in this environment:

- The list of Programs (description 20),
- The list of Screens (description 21),
- The list of Database Blocks (description 22),

- The list of the Copy Data to be generated in this environment (description 23).
- The list of eBusiness Applications (description 24),
- The list of Folders (description 25),
- The list of IT Servers (description 26),
- The list of Communication Monitors (description 27),
- The list of Elementary Components (description 28).



The external name of the VA Pac element to be generated is the one located in its Definition ; otherwise, it can be entered explicitly in the 2n description.

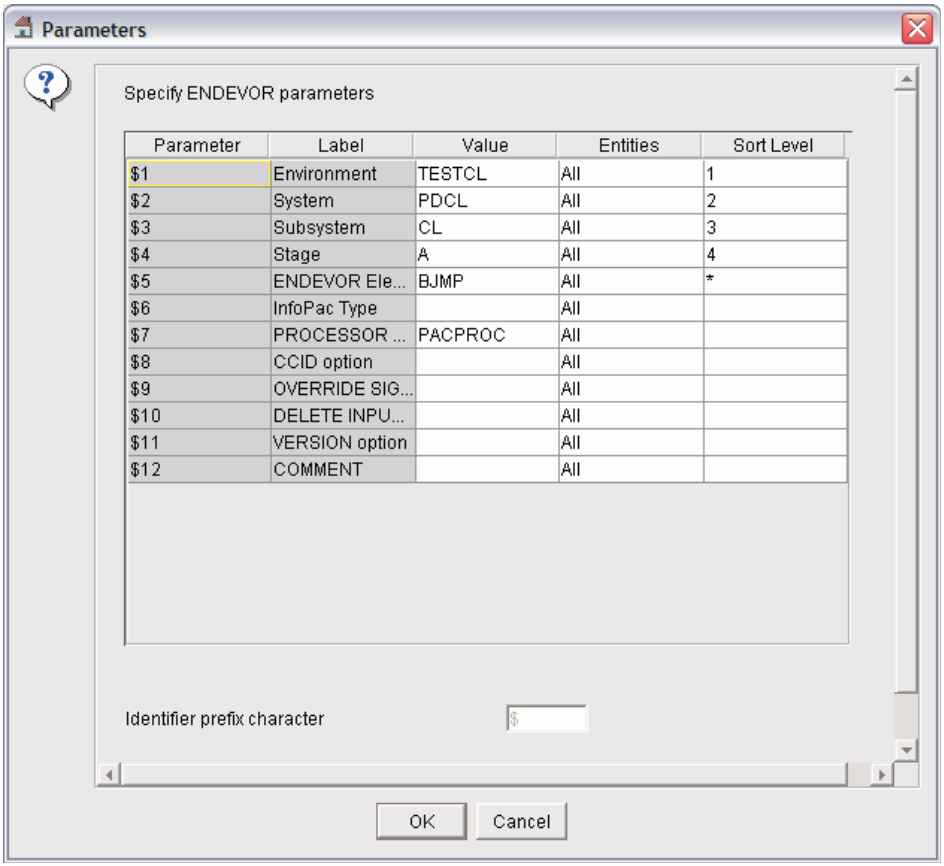
After the first generation, you must define the target ENDEVOR environment to which the VA Pac ELEMENT is to be imported. The generated object must appear in the description associated with its entity type (Program, Screen... ; refer to the corresponding descriptions).

Some parameters related to the processing of the generated object during its import to Endevor (the TYPE, the PROCESSOR, the GROUP, the CCID,...) are defined in the Definition of the environment which corresponds to this object.

Definition of the Default ENDEVOR Target Environment

You must define the target ENDEVOR environment to which VA Pac ELEMENTS will be imported. The information related to the ENDEVOR environments will be stored in the VA Pac Library and Session in which the SCM environment has been defined.

The ENDECOR target environment contains the following information:



Note: The type of the INFOPAC element is deduced from the type of the VA Pac element and from the Types correspondence table. Refer to the batch retrieval and update procedures: 'RPTY' and 'TYND'.

In the descriptions of the generated entities' types, the information displayed is the following:

Descriptions 20,21,22,23,24,25,26,27,28
Type of generated entity
VA Pac external code
Generation date
Generation time
User name
Generation library
Generation session
Date of last action
Time of last action
User who performed last action
Last action
Level
Production in wait
Production mode
ENDEVOR type
Processor Group
(unused for ENDEVOR)
(unused for ENDEVOR)
(unused for ENDEVOR)

- The PROCESSOR GROUP is optional. It enables you to indicate a Processor Group other than that defined by default in ENDEVOR for the element TYPE.
- The CCID number is optional.
- The OVERRIDE SIGNOUT option imports to Endevor a new version of the VA Pac ELEMENT assigned to a user code different from that of the current version. All other values are ignored for this option.
- The DELETE INPUT SOURCE option deletes the source of the object once imported into Endevor. All other values are ignored for this option.
- The comments in the COMMENTS field are optional.

Interface of ENDEVOR Processors

Warning:

The processors provided by the interface may be used without modification. However, you may adapt them once you have understood the functionalities described below. A wrong adaptation of these processors can have unpredictable consequences.

Introduction

Any action on the VA Pac ELEMENT generally triggers a similar action on the INFOPAC ELEMENT and archives the transaction in the interface's journal file. These tasks are performed by the Interface's ENDEVOR PROCESSORS which are supplied at installation. The processors belong to Processor Groups related to the ACTION and to the TYPEs of VA Pac objects.

The interface has five processor types:

- MOVE PROCESSOR, activated by default by the MOVE action on VA Pac ELEMENTs. It can also be activated by the TRANSFER action on the same elements.
- DELETE PROCESSOR, activated by default by the DELETE action on VA Pac ELEMENTs. It can also be activated by the GENERATE action with the choice of a different Group of Processors, or by the MOVE/TRANSFER actions on option on the same elements.
- GENERATE PROCESSOR of source-type VA Pac ELEMENTs, activated by the ADD/GENERATE/TRANSFER/UPDATE actions on VA Pac ELEMENTs.
- GENERATE PROCESSOR of load-type VA Pac ELEMENTs, activated by the ADD/GENERATE/TRANSFER/UPDATE actions on VA Pac ELEMENTs.
- GENERATE PROCESSOR of INFOPAC ELEMENTs activated by the ADD/UPDATE actions on INFOPAC ELEMENTs.

1. MOVE PROCESSOR

The interface MOVE processor, supplied at installation in the PRCSMOVP member of the SY library, must be the MOVE processor of the processor groups which can be activated by the MOVE action on VA Pac ELEMENTs.

The MOVE PROCESSOR moves the INFOPAC ELEMENT to the same ENDEVOR environment as the VA Pac ELEMENT and at the same time. Also, the transaction is archived in the interface journal.

2. DELETE PROCESSOR

The interface DELETE processor, supplied in the PRCSDELP member of the SY library, must be the DELETE processor of the processor groups which can be activated by the DELETE action on VA Pac ELEMENTs.

The DELETE PROCESSOR deletes the INFOPAC ELEMENT in the same ENDEVOR environment as the VA Pac ELEMENT. Also, the transaction is archived in the interface journal.

3. GENERATE Processor of Source-type VA Pac ELEMENTS

The interface GENERATE processor of source-type VA Pac ELEMENTs supplied in the PRCSGEPP member of the SY library, can be the GENERATE processor of the processor groups which can be activated by the ADD/GENERATE/TRANSFER/UPDATE actions on VA Pac ELEMENTs. The different steps of a processor in operation are conditioned by the TRANSFER or GENERATE action.

This processor moves the INFOPAC ELEMENT to the same Endevor environment as the VA Pac ELEMENT in the case of the TRANSFER action, and archives the transaction in the interface journal file.

4. GENERATE Processor of Load-type VA Pac ELEMENTS

The interface GENERATE processor of load-type INFOPAC ELEMENTs supplied in the PRCSGEPP member of the SY library must be the GENERATE processor of the processor groups which can be activated by the ADD/GENERATE/TRANSFER/UPDATE actions on the VA Pac ELEMENTs.

This processor compiles the VA Pac ELEMENT, moves the INFOPAC ELEMENT to the same Endevor environment as the VA Pac ELEMENT in the case of the TRANSFER action, and archives the transaction in the interface journal file.

5. GENERATE Processor of INFOPAC ELEMENTS

The interface GENERATE processor of INFOPAC ELEMENTs supplied by the PRCSGENP member of the SY library, must be the GENERATE processor of the processor groups which can be activated by the ADD/UPDATE actions on the INFOPAC ELEMENTs.

This processor archives the transaction of the VA Pac ELEMENT in the interface journal file when being imported to Endevor.

6. Other Processors

You can define several GENERATE processors which are activated by the ADD/UPDATE actions on VA Pac ELEMENTS. Each performs a different function related to the nature of the generated source. You must carefully add the steps related to the processing of the corresponding INFOPAC

ELEMENTs. These processors can be a call to pre-processors, a compilation, or a linkedit for example, and can be used when importing a VA Pac ELEMENT to ENDEVOR.

These processors are to be allocated to processor groups (see Chapter 'Installation', Subchapter 'Environment Preparation', Paragraph 'Allocating Processors to the Processor Group').

In the definition of the processor groups related to the TYPEs of INFOPAC ELEMENTs, the MOVE action must use the MOVE processor, and the TRANSFER action the GENERATE processor.

In the definition of the processor groups related to the TYPEs of VA Pac ELEMENTs, the MOVE action must use the MOVE processor, and the TRANSFER action must use the GENERATE processor but NOT the MOVE processor.

In VA Pac, the choice of the processor group used to import a VA Pac ELEMENT to ENDEVOR must be indicated in the Description of the environment defined by a User Entity of the PCM Meta-Entity.

The values you must enter are the following ones:

- 'Parameter 7' --> name of the processor-group
- 'Sort level 7' --> ' '
- 'Entity type 7' --> '***'

Description of the Interface Processors

1. Description of the MOVE Processor

The MOVE processor of the processor groups which can be activated by the MOVE/TRANSFER action on the VA Pac ELEMENTs comprises the following steps:

- Allocation of message files: BC1PDSIN
- Preparation of the source context if TRANSFER action: PNTRAN

  This step is executed only if the processor is activated by the TRANSFER action. It retrieves the parameters of the ENDEVOR source context memorized by EXIT2 in the UP file in order to archive the action. The source context is not supplied in the symbolic parameter blocks during the TRANSFER action.
- Preparation of the source context if MOVE action: IEBGENER

  Retrieval of the source context parameters from the Endevor symbolic parameters if the processor is activated by the MOVE action.
- Preparation of the action on the INFOPAC ELEMENT: PNPR10

With the parameters of the source context supplied by one of the two previous steps and those of the target context supplied by ENDEVOR symbolic parameter blocks, the INFOPAC ELEMENT write commands are generated for the following step, as well as the action on the INFOPAC ELEMENT itself.

- Writing of the contents of the INFOPAC ELEMENT: CONWRITE

  Execution of the commands generated by the PNPR10 step with the writing of the contents of the INFOPAC ELEMENT in a sequential file to prepare the action archiving.

- Memorization of the INFOPAC ELEMENT contents: PNPR11

  Retrieval of the INFOPAC ELEMENT contents from the sequential file and memorization in the UP work file which will be copied via EXIT3 to the UQ file, to archive the action.

- Execution of the action on the INFOPAC ELEMENT: C1BM300

  Execution of the action on the INFOPAC ELEMENT with the commands prepared by the PNPR10 step.

- Printing of the messages from the various steps of the processor: CONLIST

2. Description of the DELETE Processor

The DELETE processor of the processor groups which can be activated by the DELETE/GENERATE/MOVE/TRANSFER actions on VA Pac ELEMENTS comprises the following steps:

- Allocation of message files: BC1PDSIN
- Preparation of the action on the INFOPAC ELEMENT: PNPR10

  Generation of the print commands of the INFOPAC ELEMENT for the next step, as well as the action on the INFOPAC ELEMENT itself.

- Writing of the INFOPAC ELEMENT contents: CONWRITE

  Execution of the commands generated by the PNPR10 step with the writing of the INFOPAC ELEMENT contents in a sequential file to prepare the action archiving.

- Memorization of the INFOPAC ELEMENT contents: PNPR11

  Retrieval of the INFOPAC ELEMENT contents from the sequential file and memorization in the UP workfile which will be copied to the UQ file, via EXIT3, for journal archiving.

- Execution of the action on the INFOPAC ELEMENT: C1BM300

  With the commands prepared by the PNPR10 step, execution of the action on the INFOPAC ELEMENT if the processor is not activated by the GENERATE action.

- Printing of the messages from the various steps of the processor: CONLIST

The various steps of the processor are executed only if the COMMENT field does not contain the '*IBM*' value. This makes it possible, in the execution of the 'Integrity Validation' procedure, not to delete the INFOPAC ELEMENT.

3. Description of the GENERATE Processor of Source-Type VA Pac ELEMENTS

The GENERATE processor of the processor groups which can be activated by the ADD/UPDATE/GENERATE/TRANSFER actions on the Source-type VA Pac ELEMENTs is effective only for the TRANSFER or GENERATE action. The different steps of the processor are executed only if the processor is activated by the TRANSFER or GENERATE action. It comprises the following steps:

- Allocation of the message files: BC1PDSIN
- Preparation of the source context: PNTRAN

  This step is executed only if the processor is activated by the GENERATE or TRANSFER action. The Endevor source context parameters memorized via EXIT2 in the UP file are retrieved in order to archive the action. The source context is not supplied in the symbolic parameter blocks during the TRANSFER action.
- Preparation of the action on the INFOPAC ELEMENT: PNPR10

  This step is executed only if the processor is activated by the GENERATE or TRANSFER action. With the parameters of the source context supplied by the previous steps and those of the target context supplied by Endevor symbolic parameters, the action on the INFOPAC ELEMENT itself is generated.
- Writing of the INFOPAC ELEMENT contents: CONWRITE

  This step is executed only if the processor is activated by the GENERATE action. Execution of the commands generated by the previous step with the writing of the contents of the INFOPAC ELEMENT in a sequential file to prepare for archiving. In the case of the TRANSFER action, there is no need to archive the action as this is done by the MOVE processor.
- Memorization of the INFOPAC ELEMENT contents: PNPR11

  This step is executed only if the processor is activated by the GENERATE action. The INFOPAC ELEMENT contents are retrieved from the sequential file and the element is memorized in the UP workfile. This file will be copied, via EXIT3, in the UQ journal file.
- Execution of the action on the INFOPAC ELEMENT: C1BM300

  This step is executed only if the processor is activated by the TRANSFER action. The action is executed on the INFOPAC ELEMENT with the commands prepared by the PNPR10 step.
- Pringing of the messages of the various steps of the processor: CONLIST

This step is executed only if the processor is activated by the GENERATE or TRANSFER action.

This processor cannot be activated by the MOVE action as the symbolic parameters of the source environment used in the processor are not supplied by Endevor.

4. Description of the GENERATE Processor of Load-Type VA Pac ELEMENTS

The GENERATE processor of the processor groups which can be activated by the ADD/UPDATE/GENERATE/MOVE/TRANSFER actions on the Load-type VA Pac ELEMENTs comprises the following steps:

- Compilation of the VA Pac ELEMENT: IKFCBL00
- Linkedit of the VA Pac ELEMENT: IEWL
- Allocation of the messages files: BC1PDSIN

  This step is executed only if the processor is activated by the GENERATE or TRANSFER action.
- Preparation of the source context: PNTRAN

  This step is executed only if the processor is activated by the GENERATE or TRANSFER action. It retrieves the Endevor source context parameters memorized via EXIT2 in the UP file in order to archive the action. The source context is not supplied in the symbolic parameter blocks during the TRANSFER action.
- Preparation of the action on the INFOPAC ELEMENT: PNPR10

  This step is executed only if the processor is activated by the GENERATE or TRANSFER action. With the parameters of the source context supplied by the previous steps and those of the target context supplied by Endevor symbolic parameters, the action on the INFOPAC ELEMENT itself is prepared.
- Writing of the INFOPAC ELEMENT contents: CONWRITE

  This step is executed only if the processor is activated by the GENERATE action. Execution of the commands generated by the previous step with the writing of the INFOPAC ELEMENT contents in a sequential file to prepare for archiving. In the case of the TRANSFER action, there is no need to archive the action as this is done by the MOVE processor.
- Memorization of the INFOPAC ELEMENT contents: PNPR11

  This step is executed only if the processor is activated by the GENERATE action. The INFOPAC ELEMENT contents are retrieved from the sequential file and the element is memorized in the UP workfile. This file will be copied, via EXIT3, in the UQ journal file.
- Execution of the action on the INFOPAC ELEMENT: C1BM300

This step is executed only if the processor is activated by the TRANSFER action. The action is executed on the INFOPAC ELEMENT with the commands prepared by the PNPR10 step.

- Printing of the messages of the various steps of the processor: CONLIST

  This step is executed only if the processor is activated by the GENERATE or TRANSFER action.

This processor cannot be activated by the MOVE action as the symbolic parameters of the source environment used in the processor are not supplied by Endevor.

5. Description of the GENERATE Processor of the INFOPAC ELEMENTS

The GENERATE processor of the processor groups which can be activated by the ADD/UPDATE actions on the INFOPAC ELEMENTS include the following steps:

- Allocation of the message files: BC1PDSIN
- Preparation of the source context: PNTRAN

  Retrieval of the ENDEVOR source context parameters memorized, via EXIT2, in the UP file, and deletion of the source context memorized in UP file thanks to the 'I' value in the last parameter of the step.
- Preparation of the action on INFOPAC ELEMENT: PNPR10

  With the parameters of the source context supplied by the preceding step and those of the target context supplied by Endevor symbolic parameter blocks, generation of the write commands of the INFOPAC ELEMENT for next step.
- Writing of the contents of the INFOPAC ELEMENT: CONWRITE

  Execution of the commands generated by the previous step with the writing of the INFOPAC ELEMENT contents in a sequential file to prepare for archiving.
- Memorization of the INFOPAC ELEMENT contents: PNPR11

  The contents of the INFOPAC ELEMENT are retrieved from the sequential file and the element is memorized in the UP workfile. This file will be copied, via EXIT3, in the UQ journal file.
- Printing of the messages from the various steps of the processor: CONLIST

The various steps of the processor are executed only if the COMMENT field does not contain the '*RND*' value. This makes it possible, for an action generated by the Interface during a retrieval of existing data, not to delete the INFOPAC ELEMENT.

Interface Exits

The Interface has two exits: EXIT2 and EXIT3. They allow to control the different Endevor actions that are carried out on the VA Pac ELEMENTs or the INFOPAC ELEMENTs, and to finish the tasks started by the processors, such as the archiving of transactions. They are supplied respectively under the C1UEXT02 and C1UEXT03 members in the Interface load-modules library.

EXIT2 Functionalities: C1UEXT02

Executed before the processing of the Endevor action, C1UXT02 controls the validity of all the actions performed on the VA Pac ELEMENTs recognized via the Types table.

It rejects all Endevor actions on INFOPAC ELEMENTs except the actions generated by the Interface procedures.

It rejects the ADD action on VA Pac ELEMENTs if it is not generated by the Interface procedures.

In the case of the TRANSFER action, it memorizes the source context of the element to be processed in the UP workfile in order to transmit it to the processors. This context is not supplied in the symbolic parameter blocks for archiving at the time of this action.

EXIT3 Functionalities: C1UEXT03

Executed after the Endevor action is processed, C1UEXT03 retrieves the transaction corresponding to the Endevor action which is being memorized in the UP workfile by the different processors, deletes it from the UP file and records this transaction in the UQ Interface Journal file.

Chapter 3. Functionalities

Introduction

The VA Pac/ENDEVOR Interface permits:

- the automatic recognition and acceptance in ENDEVOR of VA Pac generated objects.
- the standard management of these objects in ENDEVOR.
- the on-line consultation, in VA Pac, of the ENDEVOR environments in which the objects are managed.
- the consultation, in ENDEVOR, of the VA Pac source environments of these objects.

The interface has two phases:

- Generation of VA Pac entities: import to ENDEVOR, and archiving of the transactions in the interface journal.
- Impact of these transactions in VA Pac: formatting of the interface journal in the form of batch update transactions and actual VA Pac batch update performed by the UPDT procedure.

Generation and Import of a VA Pac Element

VA Pac objects are imported to or manipulated in ENDEVOR via ENDEVOR Actions. All the transactions concerning these objects are archived in the interface journal file. The MEND procedure reformats these transactions as P.A.F. transactions which will be used as input to the UPDP VA Pac batch update procedure. These transactions reflect, in VA Pac, the ENDEVOR environments in which the generated entities are managed.

Import to ENDEVOR

VA Pac objects are imported to ENDEVOR upon the VA Pac generation via the GPRT procedure, which produces a generated source. The source is preceded and followed by JCL lines which come from the VA Pac control cards in front/ back (see the 'Character-Mode User Interface' Guide).

You must indicate the following JCL lines in the control cards in back of programs:

- the execution of the UPND procedure, followed by:
  - the $PACPDS parameter containing the name of the temporary library in which the generated VA Pac ELEMENT is found :

PACPDS='-'

– the $PACINF parameter containing the contents of the INFOPAC ELEMENT:

PACINF=-

The PCM100 program of the GPRT procedure uses the file resulting from the generation, inserts the control cards in front/back in it and completes it with ENDEVOR ADD actions. The resulting job (see the PAC7BG file of GPRT) is then either submitted to the internal Reader or executed by the user later.

The UPND procedure, executed then, imports two objects to ENDEVOR: the VA Pac ELEMENT and the INFOPAC ELEMENT.

The ADD Action of the INFOPAC ELEMENT stores the transaction of the VA Pac ELEMENT in the interface journal.

As a reminder, the following options are authorized for this Action:

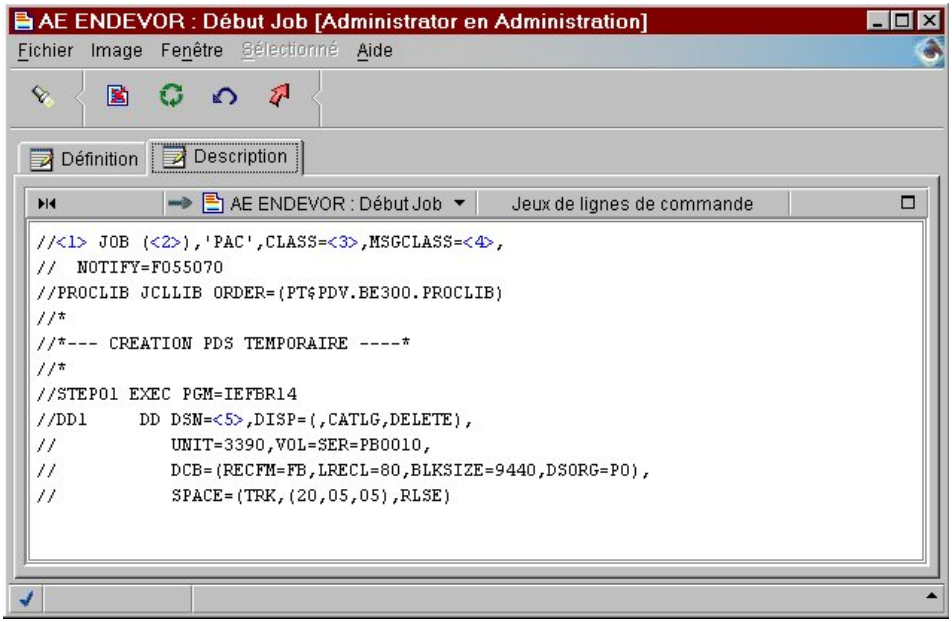
- the OVERRIDE SIGNOUT option to import a new version of the VA Pac ELEMENT under a user code which is different from that assigned to the current version of the same element;
- the DELETE INPUT SOURCE option to delete the source object once it is imported to Endevor;
- the NEW VERSION option to assign a version number to the imported VA Pac ELEMENT;
- the name of the PROCESSOR GROUP to select a processor other than that defined by default at the element TYPE level;
- the CCID number;
- and the comments of the COMMENT option.

Samples of VA Pac control cards in front/back

Below is a sample of the control cards in front/back of a batch program:

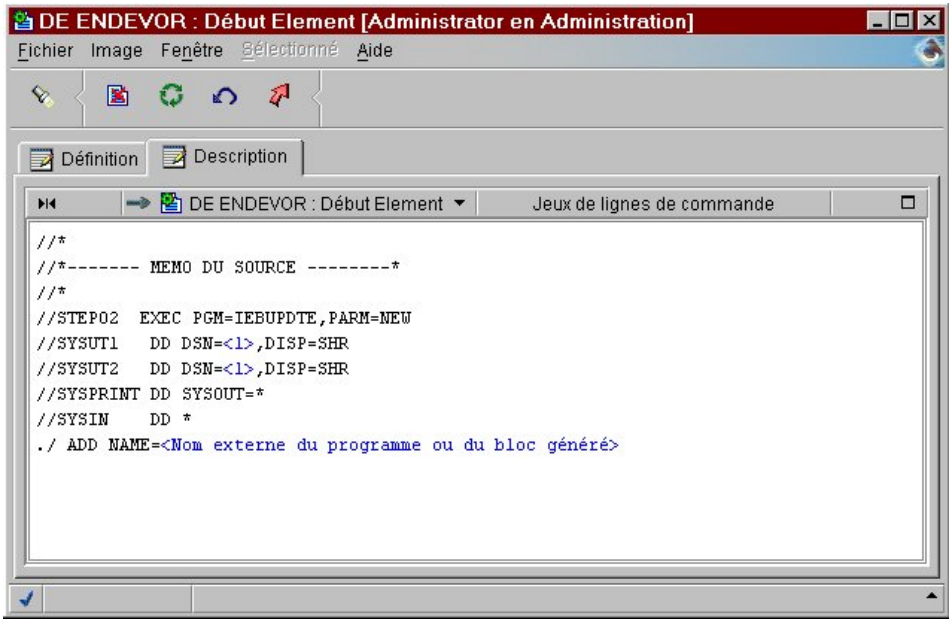
. Cards at the beginning of the generated programs' stream ('An' code)

They enable you to allocate a temporary storage PDS before the generation.



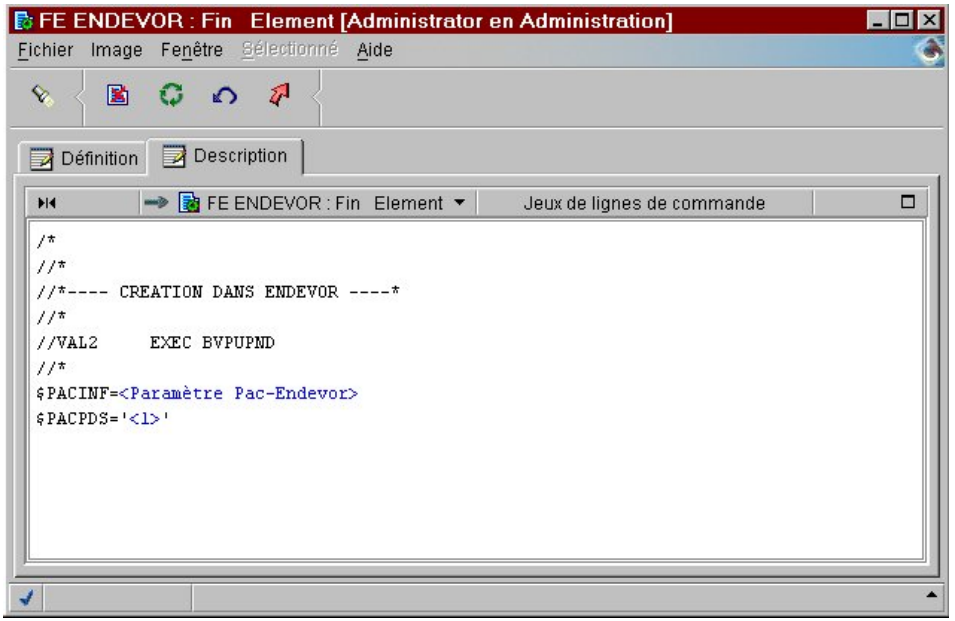
. Cards in front of the generated program (‘Dn’ code)

They enable you to store the generated source in the temporary PDS allocated here above.



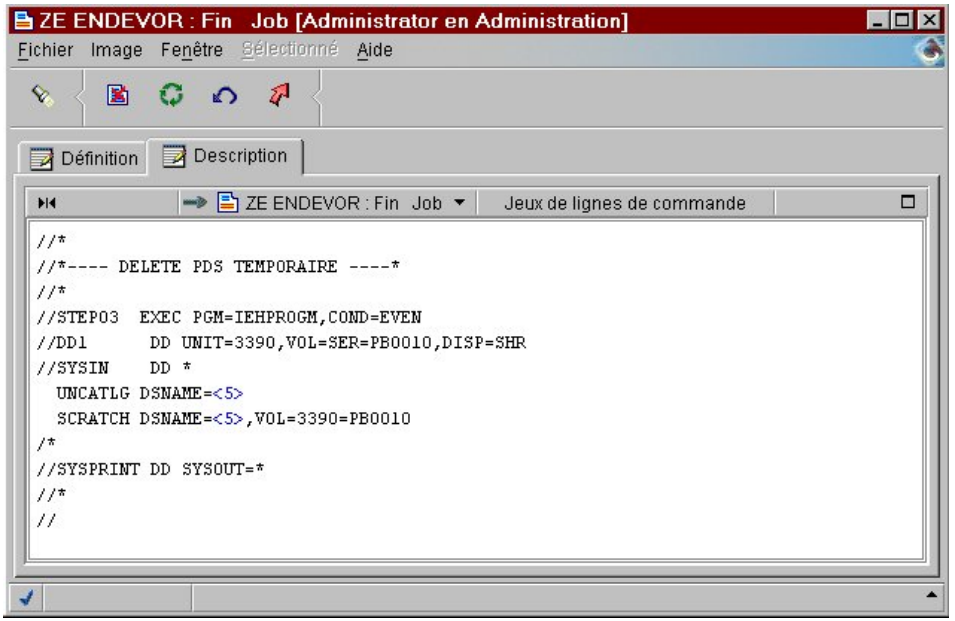
. Cards in back of the generated program ('Fn' code)

They enable you to execute the preparation procedure (UPND) for the import of the generated objects to ENDEVOR. You must define the '$PACPDS' parameter to indicate the name of the temporary PDS, and the '$PACINF' parameter to indicate the contents of the INFOPAC ELEMENT. The label of this last parameter is <Pac-Endevor parameter>.



. Cards at the end of the generated programs's stream ('Zn' code)

They enable you to delete the temporary storage PDS.



EXAMPLE: Job generation submit screens

1. Validated JCL lines for the execution of the generation procedure ('C4' operation code),
2. Corresponding generation command lines of the screen obtained with the 'GP' choice ('C1' operation code).

See the 'Character Mode User Interface' Guide, chapter 'Generation and/or Printing' for more details on job generation submit screens.

The GPRT procedure (see the JCL lines below) initiates the generation of the VA Pac element.

```
                      DOCUMENTATION                        *PTXX.PDEV.BMS.651
JCL LINES FOR THE COMMANDS                                 USER: PTXX

A    COM  LIGNE  :    V C CONTINUATION OF THE REQUEST
     JCL  000001 :    V   //PTXXGPRT JOB (111,1111,XX,CLASS=X,MSGCLASS=X,
     JCL  000002 :    V   //      NOTIFY=PTXX
     JCL  000003 :    V   /*JOBPARM LINES=100
     JCL  000004 :    V   //GPRT    EXEC D280GPRT,ROOT=D2,FILE=80,OUT=*,
     JCL  000005 :    V   //        INDUV='PT$PDV.PAC802',
     JCL  000006 :    V   //        COND.LNK=(00,LE,PAC)
     JCL  700000 :    V   //*
                 :
                 :
                 :
                 :
                 :
                 :
                 :
                 :
                 :
                 :
*** END ***
O: C4 CH:                            JOB:
```

```
|------------------------------------------------------------------------------|
|                                                                              |
|                       DOCUMENTATION                        *PTXX.PDEV.BMS.651 |
| GENERATION AND PRINT COMMANDS                              USER: PTXX        |
|                                                                              |
| A SO COM  ENTITY : OP V C CONTINUATION OF THE REQUEST                        |
|   90 FLP         : C1 V * PROGRAM JOB CARD / JOB DELIM  ENV: _ (CCF:E CCB:E) |
|                  :        1=PTXXGPND_2=111,1111_3=X_4=X_5=PTXX.NDVR.TEMP     |
|   90 GCP  PTU001 : C1 V * SOURCE CODE FOR SELECTED PROGRAM     (CCF:E CCB:E) |
|                  :        1=PTXX.NDVR.TEMP                                   |
|   90 GCP  PTU002 : C1   * SOURCE CODE FOR SELECTED PROGRAM     (CCF:E CCB:E) |
|                  :        1=PTXX.NDVR.TEMP                                   |
|                  :                                                           |
|                  :                                                           |
|                  :                                                           |
|                  :                                                           |
|                  :                                                           |
|                  :                                                           |
|                  :                                                           |
|                  :                                                           |
|                  :                                                           |
|                  :                                                           |
|                  :                                                           |
|                  :                                                           |
| *** END ***                                                                  |
| O: C1 CH:                              JOB:                                  |
|                                                                              |
|------------------------------------------------------------------------------|
```

Management of a VA Pac Element in ENDEVOR

VA Pac ELEMENT transaction in ENDEVOR

Once imported to ENDEVOR, only VA Pac ELEMENTs can be manipulated via ENDEVOR Actions. They can be transferred from one Stage to another with the ENDEVOR 'MOVE' Action, or from one environment to another with the Endevor 'TRANSFER' Action. The interface accompanies the transfer of the VA Pac ELEMENT with the transfer of the corresponding INFOPAC ELEMENT to the same ENDEVOR target environment using the MOVE or GENERATE processors of the interface.

You can consult the contents of the INFOPAC ELEMENT, but you cannot perform any ENDEVOR Action on it.

The 'MOVE' or 'TRANSFER' Action memorizes the VA Pac ELEMENT transaction in the interface journal file.

The following options are authorized for the 'MOVE' action:

- the DELETE 'FROM' ELEMENT option to delete the VA Pac ELEMENT from the source Stage after the transfer. Only "Y", the option's default value, is valid. The element is deleted from the source Stage;
- the RETAIN SIGNOUT option to keep the user code assigned to the VA Pac ELEMENT in the target Stage. By default, the element loses the assignment after the transfer;
- the SIGNOUT TO option to assign a user code other than that being used by the VA Pac ELEMENT in the target Stage;
- the CCID number;
- the comments of the COMMENT option.

The following options are authorized for the 'TRANSFER' action:

- the DELETE 'FROM' ELEMENT option to delete the VA Pac ELEMENT from the source Stage after the transfer. Only "Y", the option's default value, is valid. The element is deleted from the source Stage;
- the GENERATE ELEMENT option to regenerate or recompile the VA Pac ELEMENT after the transfer;
- the OVERRIDE SIGNOUT option to allow the user to transfer the VA Pac ELEMENT carrying a user code different from her/his own;
- the PROCESSOR GROUP option to associate a group of processors to the VA Pac ELEMENT to be transferred;
- the WITH HISTORY option;
- the RETAIN SIGNOUT option to keep the user code assigned to the VA Pac ELEMENT in the target Stage. By default the element loses the assignment after the transfer;
- the SIGNOUT TO option to assign to the VA Pac ELEMENT of the target Stage a user code different from that of the source Stage;
- the CCID number;
- and the comments of the COMMENT option.

Re-executing the GENERATE Process of the VA Pac ELEMENT in ENDEVOR

The 'GENERATE' Action enables you to execute the GENERATE process again on the VA Pac ELEMENT in its current environment, which may be a recompilation for example. The Action first suppresses the VA Pac ELEMENT from its current environment before regenerating it. No action is performed on the INFOPAC ELEMENT.

This action memorizes the VA Pac transaction in the Interface Journal file in order to record the last date of the action.

The following options are authorized for this action:

- OVERRIDE SIGNOUT to enable you to perform the operation on the VA Pac ELEMENT which bears a user code different from your own,
- PROCESSOR GROUP fo associate a processor group of the selected VA Pac ELEMENT,
- the CCID number,
- and the comments of the COMMENT option.

Deleting the VA Pac ELEMENT in ENDEVOR

The VA Pac ELEMENT can be deleted from the ENDEVOR environment with the 'DELETE' Action. The deletion of the VA Pac ELEMENT entails the deletion of the corresponding INFOPAC ELEMENT, via the 'PACD' processor.

The 'DELETE' Action stores the VA Pac ELEMENT transaction in the interface journal file.

The following options are authorized for this Action:

- the OVERRIDE SIGNOUT option to allow you to delete the VA Pac ELEMENT assigned to a user code different from your own;
- the CCID number;
- and the comments of the COMMENT option.

Update of the ENDEVOR Context in VA Pac

The transactions of the VA Pac ELEMENT in ENDEVOR via the ADD/UPDATE, DELETE, GENERATE, MOVE and TRANSFER Actions are archived in the interface journal file.

To update the ENDEVOR information in VA Pac, the administrator must run the MEND procedure which will reformat these transactions as P.A.F. transactions to be used as input to the UPDP batch update procedure.

The ENDEVOR environments of the generated VA Pac objects are memorized in the description of the Environment User Entity (PCM Meta-Entity with a C1 call type) defined for this object before its generation.

The ENDEVOR contexts are saved in the same library and the same session as that used for generation.

IMPORTANT NOTE: The VA Pac Database must be closed.

Chapter 4. Integrity Controls

Introduction

Integrity controls enable you to test the validity of the data related to the ENDEVOR environments where the VA Pac and INFOPAC ELEMENTS are managed, and those recorded in VA Pac as User Entities of the PCM Meta-Entity.

There are two types of integrity controls:

- Intra-ENDEVOR integrity control,
- Inter-Environment integrity control.

Intra-ENDEVOR Controls

In the same ENDEVOR environment, a VA Pac ELEMENT must coexist with an INFOPAC ELEMENT which has the same code. This control checks the validity of the presence of these two elements in the same ENDEVOR context.

The Intra-ENDEVOR integrity control procedure outputs an error report, and generates a deletion transaction file of the VA Pac ELEMENTS or INFOPAC ELEMENTS that are wrongly present.

REMINDER: The VA Pac and INFOPAC ELEMENTS can be deleted only via transactions generated by the interface.

Inter-Environments Controls

The administrator updates the Endevor data related to the contexts where the VA Pac generated objects are managed. The transfer of VA Pac ELEMENTS to ENDEVOR and the update of the User Entities of the PCM Meta-Entity are performed in two distinct phases.

For this reason, the inter-environment integrity control checks the validity of the ENDEVOR data stored in VA Pac against the real contexts where the VA Pac ELEMENTS are managed in ENDEVOR.

The integrity control is broken down into three steps:

- Execution of the 'CIND' procedure which extracts the information from the VA Pac elements stored in ENDEVOR,
- Execution of the VA Pac 'EXPM' procedure which extracts the information from the ENDEVOR elements stored in the VA Pac Database,

- Execution of the VA Pac 'CCPM' procedure which compares the files extracted by the 'CIND' and 'EXPM' procedures.

  This procedure outputs an error report and suggests corrective transactions for the invalid data stored in the User Entities of the PCM Meta-Entity.

These are P.A.F.-type VA Pac batch update transactions which can be used by the UPDP procedure.

Chapter 5. Retrieval of Existing VA Pac Objects

The sites which operated with both VA Pac and ENDEVOR without the interface described in this manual can use the Retrieval Facility.

This facility recognizes VA Pac ELEMENTs (batch or on-line programs) managed in ENDEVOR and creates:

- The VA Pac batch update transactions which contain the ENDEVOR data related to these elements. These transactions are to be taken into account in VA Pac by the UPDP procedure (P.A.F. transactions).
- The create transactions of the INFOPAC ELEMENTs related to these VA Pac ELEMENTs in ENDEVOR. They are contained in a batch job constituted of ENDEVOR ADD actions which you must complete before submitting the job.

You must provide the list of the ENDEVOR environments where the generated objects coming from VA Pac are managed. You must then successively execute the following retrieval procedures:

- Search of the VA Pac ELEMENTs managed in ENDEVOR and preparation of the creation job of the corresponding INFOPAC ELEMENTs (RRND procedure),
- Update and submission of the job which was output by the preceding step in order to actually create the INFOPAC ELEMENTs in ENDEVOR (RIND procedure),
- Generation of P.A.F. transactions for a VA Pac update in order to create the User Entities of the PCM Meta-Entity. These transactions contain data about the ENDEVOR context of these VA Pac ELEMENTs (RPND procedure).

NOTE: The source of the VA Pac objects managed in ENDEVOR must be available. The retrieval procedure detects the source objects coming from VA Pac thanks to the presence of the 'PAC-CONSTANTS' string (for a batch program) and the 'VA PAC-CONSTANT' string (for an on-line program).

The VA Pac TYPE Table (VSAM file) must be updated previously, from the TYPES extracted from the Administrator Database (ENT Meta-Entity) via the 'TYND' procedure. The Database Administrator should be the only one authorized to run this procedure.

Chapter 6. Retrieval 2.5 -> 3.5

Reminder on the VA Pac-ENDEVOR 2.5 Interface

The Interface V2.5 managed VA Pac Elements in two User Entities:

- .NDENV: ENDEVOR Environment
- .NDVLM: ENDEVOR Element

Note: The entities managed by ENDEVOR could be updated in VA Pac in the sessions chosen by the Administrator via the TS Table (LSND 2.5 procedure).

Interface V3.5

Now the Interface manages the Elements in one Meta-Entity: PCM

This Meta-Entity is unique and common to all the Configuration Management tools (ENDEVOR, Clear Case,...)

In a retrieval context, the task consists in grouping these two User Entities (.NDVENV and .NDVLM) in the PCM Meta-Entity.

Note: The TS Table no longer exists in the Interface V3.5. So the entities managed by Endevor are then uploaded to VA Pac in the same session as the generation session.

Moreover the VA Pac / ENDEVOR Interface (and by extension all the configuration tools) now only manages the entities from the sessions put into production. For more information, refer to the documentation of the Generic Interface.

Reminders on the Interface V2.5:

Each User Entity Occurrence Definition contains the parametrs of the generation target environment in ENDEVOR.

If the target environment was indicated in the Element (.NDVLM), there was no notion of Environment Identifier. One of the tricky points of the retrieval was to create it.

On the other hand, because the PCM Meta-Entity is used in all the Environment Management tools, the notion of 'application' has been created. Its default value for the retrieval is '**********' (it corresponds to the default application).

So each Element is associated with a couple 'Environment / Application' in VA Pac.

The attributes on each Definition of the $7M and $7N occurrences (of the .NDENV and .NDVLM User Entities) correspond to the parameters of the C1 User Entities of the new PCM Meta-Entity in the Interface V3.5.

Interface Retrieval 2.5 -> 3.5

Upon installation, three retrievals are required on the sites which operate with the VA Pac / ENDEVOR Interface V2.5 (selection of the JCL module ===MOD NDVR2530) :

1. Retrieval of the 'QU' archived journal file (see 'JJND' procedure).
2. Retrieval of the 'TY' TYPES file

   The types of the generated VA Pac Elements and the corresponding INFOPAC Elements are now stored in the Administration Database. However a 'TY' VSAM file still exists in the 3.5 version (see the 'RPTY' and 'TYND' procedures).
3. Retrieval of the ENDEVOR User Entity Occurrences in VA Pac.

The 3.5 version manages the Va Pac / ENDEVOR Elements in 'C1' occurrences of the PCM Meta-Entity, instead of the '$7M' and '$7N' Occurrences of the .NDVLM and .NDENV User Entities.

Hence the 'RP25' procedure retrieves all the '$7M' and '$7N' occurrences of the User Entities from the 2.5 version and applies the new format to them.

Before executing this procedure, you:

1. Must ensure that the 'VINS' VA Pac procedure has been priorly run in order to create (among others) the Meta-Entities for ENDEVOR: 'ENT' (in the Administration Database) and 'PCM' (in the Development Database),
2. Are strongly advised to back up the VA Pac Database before running 'VINS'.

For more details, see the 'RP25' procedure.

Chapter 7. Using the 2.5 Model of the Interface

Reminder

Using the VA Pac / ENDEVOR Interface (2.5 model)

You can still use the functionalities of the 2.5 model with the restrictions of use indicated in chapter 'Procedures of the 2.5 Model of the Interface'.

You must remember that the VA Pac / ENDEVOR Interface V2.5 is constituted of two Meta-Entities:

- .NDENV: ENDEVOR Environment
- .NDVLM: ENDEVOR Element

The information about the generated VA Pac Elements managed in ENDEVOR are stored in the .NDVLM Meta-Entity.

The context of the VA Pac Elements managed by ENDEVOR can be updated in the sessions or libraries chosen by the Administrator via the TS Table (LSND procedure).

Procedures of the 2.5 Model of the Interface

Generating and Importing the VA Pac Element to ENDEVOR (GPRX)

You generate the VA Pac ELEMENT by running the GPRX procedure. This procedure, which can be parameterized, executes the GPRP, GPRT, GPRU or GPRC procedures after the GPND procedure (this procedure prepares the import commands to ENDEVOR). The import writes a transaction which corresponds to the ENDEVOR action on the VA Pac ELEMENT in the UQ file (the equivalent procedure for SCM is GPRT).

Transaction of the VA Pac ELEMENT in ENDEVOR

All the ENDEVOR actions on the VA Pac Element described in this manual can be used. The transactions which result from these actions are stored in the UQ file.

Updating ENDEVOR Contexts in VA Pac (MNDO)

You update the ENDEVOR contexts where the VA Pac Elements are managed via the MNDO procedure. This procedure analyzes the transactions stored in UQ and uploads them to VA Pac, to the .NDVLM Meta-Entity (the equivalent procedure for SCM is MEND).

Inter-Environment Integrity Control (CINN)

The integrity of the data found in ENDEVOR against the data stored in the Repository according to the 2.5 model is controlled via the CINN procedure. (the equivalent procedure for SCM is CIND).

Intra-ENDEVOR Integrity Control (CEND)

In the same ENDEVOR environment, a VA Pac Element must have a corresponding INFOPAC element with the same code. This control checks the validity of the presence of these two elements in the same ENDEVOR context.

This procedure outputs an execution report and generates a files with the delete transactions of the VA Pac or INFOPAC Elements wrongly present.

Chapter 8. Batch Operation Procedures

Introduction

BATCH processing is divided into various procedures. The following sub-chapters present each of the procedures with their specific execution conditions.

The description of each procedure includes:

- A general presentation with:
  - an introduction
  - the execution conditions
  - the actions to be taken in case of abnormal execution.
- A description of user input, processing executed, and results, plus specific recommendations.
- A description of steps with:
  - symbolics and parameters,
  - list of the files used (temporary and permanent),
  - JCL lines.

Procedure Classification

The procedures associated with batch operations are classified into various categories:

- Import of generated Elements to ENDEVOR

  Retrieval of the result of the VA Pac generation-print procedure (GPRT), preparation of the import of the generated Elements to ENDEVOR (GPND) and actual import to ENDEVOR (UPND).
- Generation of VA Pac update transactions
- Formatting of P.A.F. batch update transactions. VA Pac archiving and re-initialization of UQ journal (MEND).
- Utility Procedures
  - Update of the elements' TYPES table managed by the interface in a VSAM file, from the data of the 'EN' occurrence od the 'ENT' Meta-Entity of the Administration database (TYND).
  - List of the interface program dates (INND)
  - Retrieval of the journal transactions already archived (JRND).
- Integrity Control Procedures

  - Intra-ENDEVOR integrity control (CEND).
  - Inter-Environment integrity control (CIND).
- Retrieval of previous versions

  RP25 Procedure (Refer to Chapter 'Interface Retrieval 2.5 --> 3.5').
- Retrieval of existing VA Pac objects

  For the sites which worked with VA Pac and ENDEVOR but without the interface:
  - Extraction of VA Pac Elements from ENDEVOR (REND)
  - Creation of the associated INFOPAC Elements (RIND)
  - Creation of References in VA Pac (RPND).

    See chapter 'Retrieval of Existing VA Pac Objects'.

ABNORMAL EXECUTIONS

Input-output errors on the interface files can generate the abnormal execution of a batch program.

In most cases the return code and the error message allow the user to find the cause of the ABEND (resources not free, file too small, etc.).

Some frequent values for 'OP':

OO	**OPERATION**
W	WRITE
RW	REWRITE
RU	READ UP
OP	OPEN
CL	CLOSE
D	DELETE
R	READ
P	START
RN	READ NEXT

Some frequent values for 'Status':

NN	**STATUS**
21	Sequence error
22	Duplicate key
23	No record found

NN	STATUS
24	Boundary violation (KSDS-RRDS)
30	System error
34	Boundary violation (sequential)
92	Logic error (e.g. opening of of an already open file)
93	File still open in CICS
95	Invalid or incomplete file information

If there is no such message is absent and if the type of ABEND generated signals a problem directly in the system programs, contact the Technical support. Be sure to keep all printouts which may be useful in analyzing the problem.

CEND: Intra-ENDEVOR Integrity Control

CEND - General Presentation

The CEND procedure controls the consistency of the existing INFOPAC ELEMENTs and their corresponding VA Pac ELEMENTs in the same ENDEVOR environment. Each VA Pac ELEMENT must have an INFOPAC ELEMENT which includes the VA Pac generation context.

Execution condition

The interface must not be in use.

CEND - Input / Processing / Results

One administrator identification line

User parameter line

Pos.	Len.	Value	Meaning
2	1	'*'	Line code
3	8	uuuuuuuu	User code
11	8	pppppppp	Password

One identification line per environment

Environment parameter line

Pos.	Len.	Value	Meaning
11	8	eeeeeeee	Endevor environment

Report

This procedure prints a report of the Intra-ENDEVOR integrity control with the detected errors.

CEND - Description of Steps

Input recognition: PTU001

Preparation of the ENDEVOR lISTS: PNCI10

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	Error messages
PACGGN	&INDSV..BVPGN	Input	Administration Database index
PACGGR	&INDSV..BVPGR	Input	Administration Database data
PACGGU	&INDSV..BVPGU	Input	Administration Database users
PAC7MB	&&CENDMB	Input	User transactions
PAC7TY	&INDSVE..BVPTY	Input	Interface TYPES file
PAC7BS	&&PAC7BS	Output	Endevor LIST requests for VA Pac and INFOPAC Elements
PAC7DD		Report	Authorization control

LISTS of VA Pac and INFOPAC Elements: NDVRC1

Code	Physical name	Type	Label
PAC7TY	&INDSVE..BVPTY	Input	Interface TYPES file
PAC7PU	&INDSVE..BVPUP	Input/Output	Interface work file
PAC7UP	&INDSVE..BVPUP	Input/Output	Interface work file
PAC7UQ	&INDSVE..BVPUQ	Input/Output	Interface journal file
C1MSGS1	&&C1MSGS1	Output	Printing of Endevor 'LIST' requests

Intra-Endevor integrity control: PNCI20

Code	Physical name	Type	Label
PAC7AE	&INDSV.BVPAE	Input	Error message file
PAC7AR	&INDUV..&BASE.AR	Input	VA Pac data file
PAC7MS	&&C1MSGS1	Input	Printing of Endevor 'LIST' requests
PAC7TY	&INDSVE..BVPTY	Input	Interface TYPES file
PAC7BS	&&PAC7BT	Output	Requests for Endevor update
PAC7CR		Report	Integrity control report

CEND - Execution JCL

```
//*********************************************************************
//* PACBASE-ENDEVOR 3.5   : INTEGRITY CONTROL INTRA-ENDEVOR           *
//*********************************************************************
//BVPCEND PROC BASE='$BASE',     VA-PACBASE CODE BASE
//    INDSV='$INDSV',            INDEX OF SYSTEM VSAM FILES VA-PAC
//    INDSVE='$INDSVE',          INDEX OF SYSTEM VSAM FILES ENDEVOR
//    INDUV='$INDUV',            INDEX OF  USER  VSAM FILES
//*:  VSAMCAT='$VCAT',           USER VSAM CATALOG
//*:  SYSTCAT='$SCAT',           SYSTEM VSAM CATALOG
//    STEPLIB='$HLQ..SBVPMBR8',  LIBRARY OF LOAD-MODULES
//    LOADLIB='$LDLIB',          LOADLIB ENDEVOR
//    CONLIB='$CONLIB',          CONLIB ENDEVOR
//    SORTLIB='$BIBT',           SORT LIBRARY
//    CYL=3,                     SORT WORKS SIZE
//    OUT='$OUT',                OUTPUT CLASS
//    UWK=$UWK,                  WORK UNIT
//    SPABS='(TRK,(02,01),RLSE)',  SPACE TRANSACTIONS FOR 'BSTIPT01
//    SPAMS='(TRK,(05,05),RLSE)'   SPACE 'C1MSGS1 & C1PRINT' NDVRC1
//*--------------------------------------------------------------------*
//*
//INPUT   EXEC PGM=BVPTU001
//*-----------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//CARTE    DD DDNAME=SYSIN,DCB=BLKSIZE=80
//PAC7MB   DD DSN=&&CENDMB,DISP=(,PASS),
//            UNIT=&UWK,SPACE=(TRK,(1,1),RLSE),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=80)
//*
//PNCI10  EXEC PGM=BVPNCI10,PARM=' '
//*--------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//PACGGN   DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGR   DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGU   DD DSN=&INDSV..BVPGU,DISP=SHR
//PAC7TY   DD DSN=&INDSVE..BVPTY,DISP=SHR
//PAC7MB   DD DSN=&&CENDMB,DISP=(OLD,PASS)
```

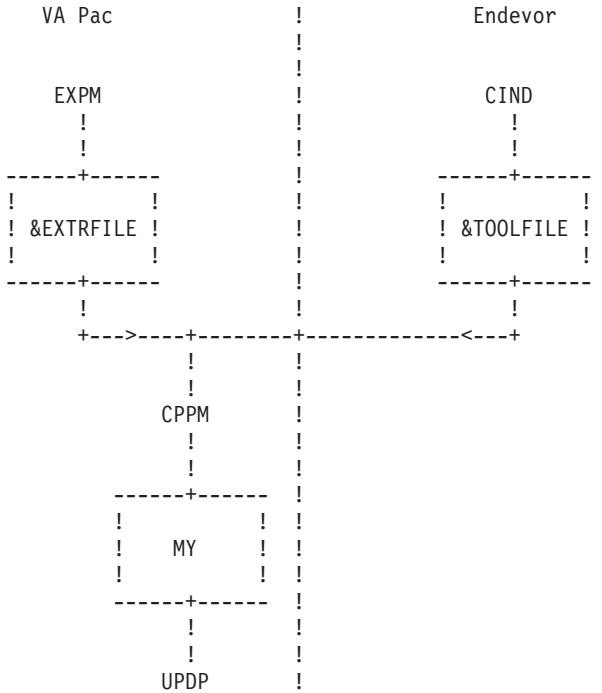
```
//PAC7BS   DD DSN=&&PAC7BS,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
//            SPACE=&SPABS
//PAC7DD   DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//NDVRC1  EXEC PGM=NDVRC1,DYNAMNBR=1500,REGION=0K,
//        PARM='C1BM3000',COND=(00,NE,PNCI10)
//*-------------------------------------------
//STEPLIB  DD DSN=&LOADLIB,DISP=SHR
//CONLIB   DD DSN=&CONLIB,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK04 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//C1TPDD01 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPDD02 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPLSIN DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//C1TPLSOU DD UNIT=SYSDA,SPACE=(CYL,5)
//PAC7TY   DD DSN=&INDSVE..BVPTY,DISP=SHR
//PAC7PU   DD DSN=&INDSVE..BVPUP,DISP=SHR
//PAC7UP   DD DSN=&INDSVE..BVPUP,DISP=SHR
//PAC7UQ   DD DSN=&INDSVE..BVPUQ,DISP=SHR
//C1PLMSGS DD SYSOUT=&OUT
//*1MSGS1  DD SYSOUT=&OUT
//C1MSGS1  DD DSN=&&C1MSGS1,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FBA,LRECL=133,BLKSIZE=26600),
//            SPACE=&SPAMS
//C1PRINT  DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,BLKSIZE=6171)
//SYSABEND DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//BSTIPT01 DD DSN=&&PAC7BS,DISP=(OLD,PASS)
//*
//PNCI20  EXEC PGM=BVPNCI20,COND=(00,NE,PNCI10)
//*-----------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//SORTLIB  DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//PAC7TY   DD DSN=&INDSVE..BVPTY,DISP=SHR
//PAC7MS   DD DSN=&&C1MSGS1,DISP=(OLD,PASS)

//PAC7BS   DD DSN=&&PAC7BT,DISP=(,PASS),UNIT=&UWK,
```

```
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
//            SPACE=&SPABS
//PAC7CR   DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
```

CIND: Inter-Environments Integrity control

CIND - General Presentation

The CIND procedure extracts, from the configuration management tool (ENDEVOR), the Elements whose status is to be checked against the existing Elements in VA Pac. The extracted file will be compared to a file extracted by the 'EXPM' VA Pac procedure. The 'CPPM' VA Pac procedure will then propose the update of the entities where discrepancies have been found. P.A.F.-type update transactions will be generated for the 'UPDP' procedure.



Execution condition

The interface must not be in use.

CIND - Input / Processing / Results

One adminstrator identification line

User parameter line

Pos.	Len.	Value	Meaning
2	1	'*'	Line code
3	8	uuuuuuuu	User code
11	8	pppppppp	Password

Result

This &TOOLFILE extraction file must be compared with a file extracted by the 'EXPM' VA Pac procedure. The 'CPPM' VA Pac procedure will then propose the update of the entities where discrepancies have been found. P.A.F.-type update transactions will be generated for the 'UPDP' procedure.

CIND - Description of Steps

Input recognition: PTU001

Preparation of VA Pac Elements LISTs requests: PNDC50

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	Error messages
PACGGN	&INDSV..BVPGN	Input	Administration Database index
PACGGR	&INDSV..BVPGR	Input	Administration Database data
PACGGU	&INDSV..BVPGU	Input	Administration Database users
PAC7MB	&&CINDMB2	Input	User transactions
PAC7TY	&INDSVE..BVPTY	Input	Interface TYPES file
PAC7BS	&&PAC7BS	Output	Endevor 'LIST' requests for INFOPAC Elements
PAC7BT	&&PAC7BT	Output	'LIST' requests for VA Pac Elements
PAC7DD		Report	Authorization control

LISTs of VA Pac Elements in Endevor : NDVRC1

Code	Physical name	Type	Label
PAC7TY	&INDSVE..BVPTY	Input	Interface TYPES file
PAC7PU	&INDSVE..BVPUP	Input/Output	Interface work file
PAC7UP	&INDSVE..BVPUP	Input/Output	Interface work file
PAC7UQ	&INDSVE..BVPUQ	Input/Output	Interface journal file

Code	Physical name	Type	Label
C1MSGS1	&&C1MSGS1	Output	Printing of Endevor 'LIST' requests

Formatting of the Printings output by NDVRC1 : PNDC60

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	VA Pac error message file
PAC7AR	&INDUV..&BASE.AR	Input	VA Pac data file
PAC7TY	&INDSVE..BVPTY	Input	Interface TYPES file
PAC7LT	&&C1MSGS1I	Input	'C1MSGS1I' file output by NDVRC1
PAC7PT	&&C1PRINTI	Input	'C1PRINTI' file output by NDVRC1
PAC7RS	&&PAC7RS	Output	File with the formatted VA Pac Elements

LISTs of VA Pac Elements in Endevor : NDVRC1

Code	Physical name	Type	Label
PAC7TY	&INDSVE..BVPTY	Input	Interface TYPES file
PAC7PU	&INDSVE..BVPUP	Input/Output	Interface work file
PAC7UP	&INDSVE..BVPUP	Input/Output	Interface work file
PAC7UQ	&INDSVE..BVPUQ	Input/Output	Interface journal file
C1MSGS1	&&C1MSGS1	Output	Printing of Endevor 'LIST' requests
C1PRINT	&&C1PRINTP	Output	'C1PRINT' print file
BSTIPT01	&&PAC7BT	Input	Endevor 'LIST' requests for VA Pac Elements

Extraction of transactions for 'CPPM': PNDC70

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	VA Pac error message file
PAC7AR	&INDUV..&BASE.AR	Input	VA Pac data file
PAC7TY	&INDSVE..BVPTY	Input	Interface TYPES file
PAC7LT	&&C1MSGS1P	Input	'C1MSGS1' file output by NDVRC1

Code	Physical name	Type	Label
PAC7PT	&&C1PRINTP	Input	'C1PRINT' file output by NDVRC1
PAC7RR	&&PAC7RR	Input	INFOPAC Elements file
PAC7RS	&TOOLFILE	Output	File of the extracted Elements to be compared (via CPPM) with those extracted by EXPM

CIND - Execution JCL

```
//*********************************************************************
//* PACBASE-ENDEVOR 3.5   : INTEGRITY CONTROL INTER-ENVIRONMENT       *
//*********************************************************************
//BVPCIND PROC BASE=$BASE,            CODE OF DEVPT DATABASE
//        INDSV='$INDSV',            INDEX OF SYSTEM VSAM FILES VA-PAC
//        INDSVE='$INDSVE',          INDEX OF SYSTEM VSAM FILES ENDEVOR
//        INDUV='$INDUV',            INDEX OF  USER  VSAM FILES
//*:      VSAMCAT='$VCAT',           USER VSAM CATALOG
//*:      SYSTCAT='$SCAT',           SYSTEM VSAM CATALOG
//        STEPLIB='$HLQ..SBVPMBR8',  LIBRARY OF LOAD-MODULES
//        LOADLIB='$LDLIB',          LOADLIB ENDEVOR
//        CONLIB='$CONLIB',          CONLIB ENDEVOR
//        SORTLIB='$BIBT',           SORT LIBRARY
//        CYL=3,                     SORT WORKS SIZE
//        OUT='$OUT',                OUTPUT CLASS
//        UWK=$UWK,                  WORK UNIT
//        SPAMB='(TRK,(02,01),RLSE)', SPACE TRANSACTIONS FOR 'BSTIPT01
//        SPAMS='(TRK,(05,05),RLSE)', SPACE 'C1MSGS1 & C1PRINT' NDVRC1
//        SPART='(TRK,(02,01),RLSE)'  SPACE EXTRACTED FILE FOR 'CPPM'
//*--------------------------------------------------------------------*
//*
//INPUT   EXEC PGM=BVPTU001
//*-----------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//CARTE    DD DDNAME=SYSIN,DCB=BLKSIZE=80
//PAC7MB   DD DSN=&&CINDMB2,DISP=(,PASS),
//            UNIT=&UWK,SPACE=(TRK,(1,1),RLSE),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=80)
//*
//PNDC50  EXEC PGM=BVPNDC50
//*-----------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//PACGGN   DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGR   DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGU   DD DSN=&INDSV..BVPGU,DISP=SHR
//PAC7TY   DD DSN=&INDSVE..BVPTY,DISP=SHR
//PAC7MB   DD DSN=&&CINDMB2,DISP=(OLD,PASS)
//PAC7BS   DD DSN=&&PAC7BS,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
//            SPACE=&SPAMB
```

```
//PAC7BT   DD DSN=&&PAC7BT,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
//            SPACE=&SPAMB
//PAC7DD   DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//NDVRC1A EXEC PGM=NDVRC1,DYNAMNBR=1500,REGION=0K,
//        PARM='C1BM3000',COND=(00,NE,PNDC50)
//*-------------------------------------------
//STEPLIB  DD DSN=&LOADLIB,DISP=SHR
//CONLIB   DD DSN=&CONLIB,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK04 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//C1TPDD01 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPDD02 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPLSIN DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//C1TPLSOU DD UNIT=SYSDA,SPACE=(CYL,5)
//PAC7TY   DD DSN=&INDSVE..BVPTY,DISP=SHR
//PAC7PU   DD DSN=&INDSVE..BVPUP,DISP=SHR
//PAC7UP   DD DSN=&INDSVE..BVPUP,DISP=SHR
//PAC7UQ   DD DSN=&INDSVE..BVPUQ,DISP=SHR
//C1PLMSGS DD SYSOUT=&OUT
//*1MSGS1  DD SYSOUT=&OUT
//C1MSGS1  DD DSN=&&C1MSGS1I,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FBA,LRECL=133,BLKSIZE=26600),
//            SPACE=&SPAMS
//*1PRINT  DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,BLKSIZE=6171)
//C1PRINT  DD DSN=&&C1PRINTI,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FBA,LRECL=133,BLKSIZE=26600),
//            SPACE=&SPAMS
//SYSABEND DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//BSTIPT01 DD DSN=&&PAC7BS,DISP=(OLD,PASS)
//*
//PNDC60  EXEC PGM=BVPNDC60,COND=(00,NE,PNDC50)
//*-----------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//SORTLIB  DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//PAC7TY   DD DSN=&INDSVE..BVPTY,DISP=SHR
```

```
//PAC7LT   DD DSN=&&C1MSGS1I,DISP=(OLD,PASS)
//PAC7PT   DD DSN=&&C1PRINTI,DISP=(OLD,PASS)
//PAC7RS   DD DSN=&&PAC7RR,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=900,BLKSIZE=25200),
//            SPACE=&SPART
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//NDVRC1B EXEC PGM=NDVRC1,DYNAMNBR=1500,REGION=0K,
//        PARM='C1BM3000',COND=(00,NE,PNDC50)
//*-------------------------------------------
//STEPLIB  DD DSN=&LOADLIB,DISP=SHR
//CONLIB   DD DSN=&CONLIB,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK04 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//C1TPDD01 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPDD02 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPLSIN DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//C1TPLSOU DD UNIT=SYSDA,SPACE=(CYL,5)
//PAC7TY   DD DSN=&INDSVE..BVPTY,DISP=SHR
//PAC7PU   DD DSN=&INDSVE..BVPUP,DISP=SHR
//PAC7UP   DD DSN=&INDSVE..BVPUP,DISP=SHR
//PAC7UQ   DD DSN=&INDSVE..BVPUQ,DISP=SHR
//C1PLMSGS DD SYSOUT=&OUT
//*1MSGS1  DD SYSOUT=&OUT
//C1MSGS1  DD DSN=&&C1MSGS1P,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FBA,LRECL=133,BLKSIZE=26600),
//            SPACE=&SPAMS
//*1PRINT  DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,BLKSIZE=6171)
//C1PRINT  DD DSN=&&C1PRINTP,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FBA,LRECL=133,BLKSIZE=26600),
//            SPACE=&SPAMS
//SYSABEND DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//BSTIPT01 DD DSN=&&PAC7BT,DISP=(OLD,PASS)
//*
//PNDC70  EXEC PGM=BVPNDC70,COND=(00,NE,PNDC50)
//*----------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//SORTLIB  DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
```

```
//PAC7TY   DD DSN=&INDSVE..BVPTY,DISP=SHR
//PAC7LT   DD DSN=&&C1MSGS1P,DISP=(OLD,PASS)
//PAC7PT   DD DSN=&&C1PRINTP,DISP=(OLD,PASS)
//PAC7RR   DD DSN=&&PAC7RR,DISP=(OLD,PASS)
//PAC7RS   DD DSN=&TOOLFILE,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=900,BLKSIZE=25200),
//            SPACE=&SPART
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
```

GPND: Preparing the Import to ENDEVOR

GPND - General Presentation

The GPND procedure completes the file output by one of the generation-print procedures (GPRP, GPRT, GPRU or GPRC) and prepares the job to import the generated VA Pac and INFOPAC Elements to Endevor.

Execution conditions

The GPND must be executed via the GPRX procedure explained below.

Result

This procedure formats a transactions list which will update ENDEVOR via the UPND procedure (automatically executed when indicated in the control cards in back of the program).

Integration of the GPND procedure into the GPRP GPRT GPRU and GPRC procedures

The GPRX procedure has been created in order to parameterize the execution of the GPRP, GPRT, GPRU and GPRC procedures integrated into the GPND procedure.

The JCLGPRX JCL starts the GPRX procedure which, in turn, starts the following procedures:

- The GPRP, GPRT, GPRU or GPRC procedure, depending on the PRC parameter contained in the JCLGPRX JCL,
- The GPRY procedure which concatenates the files output by the preceding generation procedure, performs the PAF processing, if necessary, and then outputs the file which will be used as input to the GPND procedure,
- Finally the GPND procedure.

Two parameters must be specified on the SET lines of the JCLGPRX JCL.

– PRC is the name of the generation procedure to be run. It can take the following values: 'GPRP', 'GPRT', 'GPRU' or 'GPRC',
– GPP detemines the execution of the PAF processing in the GPRY procedure: it must be valorized to '1' when the PRC parameter is 'GPRP' and to '0' for the other values.

GPND - Description of Steps

Preparation of import to Endevor: PNDV10

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	Error messages
PACGGN	&INDSV..BVPGN	Input	Administration Database index
PACGGR	&INDSV..BVPGR	Input	Administration Database data
PACGGU	&INDSV..BVPGU	Input	Administration Database users
PAC7JB	&PAC7JB from GPRT	Input	VA Pac generated cobol lines
PAC7JG	&PAC7JG from GPRT	Input	Extractor's commands
SYSPAF	&INDUV..SYSPAF. &USER	Input	PAF work file
PAC7TS	&INDSV..BVPTS	Input	Libraries and sessions
PAC7TY	&INDSV..&BASE.TY	Input	Interface Types
PAC7BJ	&&PAC7BJ	Output	Import file to Endevor to be submitted for execution
PAC7ET		Report	Execution errors

Submission of import job to Endevor by sending the BJ file to the Internal Reader: IEBGENER

CINN: Inter-Env. Integrity Control (2.5 Model)

CINN - General Presentation

The CINN procedure controls the consisttency of the endevor data stored in VA Pac in .NDVLM User Entities and the actual presence of the VA Pac Elements in these environments. It outputs the adequate VA Pac corrected transactions.

Execution condition

The interface must not be in use.

CINN - Input / Processing / Results

- First input flow

  One administrator identification line.

  User parameter line

Pos.	Len.	Value	Meaning
2	1	'*'	Line code
3	8	uuuuuuuu	User code
11	8	pppppppp	Password

- Second input flow

  One administrator identification line.

  User parameter line

Pos.	Len.	Value	Meaning
2	1	'*'	Line code
3	8	uuuuuuuu	User code
11	8	pppppppp	Password

One identification line per environment

Environment parameter line

Pos.	Len.	Value	Meaning
11	8	eeeeeeee	Endevor environment

Output print

The procedure prints the result of the inter-environment integrity control and the generation result.

Output

The procedure generates an UPDP VA Pac batch update transaction file to update the Endevor data stored in the Repository.

CINN - Description of Steps

Recognition of the Adminstrator's code: PTU001

Recognition of the Environments list: PTU001

Initialization of the KSDS work file: IDCAMS

Extraction of $7N User Entities: PNDC10

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	Error messages
PACGGN	&INDSV..BVPGN	Input	Administration Database index
PACGGR	&INDSV..BVPGR	Input	Administration Database data
PACGGU	&INDSV..BVPGU	Input	Administration Database users
PAC7AR	&INDUV..&BASE.AR	Input	VA Pac data file
PAC7AN	&INDSV..&BASE.AN	Input	VA Pac index file
PAC7CA	&&CINNMB1	Input	Administrator identification
PAC7TS	&INDSVE..BVPTS	Input	Libraries and Sessions file
SYSPAF	&INDUV..SYSPAF.&USER	Output	PAF processor intermediate file
PAC7RT	&&PAC7RT	Output	U.Es. stored in VA Pac
PAC7ET		Report	Error report

Preparation of 'LIST' requests for VA Pac Elements: PNDC50

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	Error messages
PACGGN	&INDSV..BVPGN	Input	Administration Database index
PACGGR	&INDSV..BVPGR	Input	Administration Database data
PACGGU	&INDSV..BVPGU	Input	Administration Database users
PAC7MB	&&CINNMB2	Input	User transactions
PAC7TY	&INDSVE..BVPTY	Input	Interface TYPES file
PAC7BS	&&PAC7BS	Output	Endevor 'LIST' requests for INFOPAC Elements
PAC7BT	&&PAC7BT	Output	'LIST' requests for VA Pac Elements
PAC7DD		Report	Authorization control

LISTs of VA Pac Elements in Endevor : NDVRC1

Code	Physical name	Type	Label
PAC7TY	&INDSVE..BVPTY	Input	Interface TYPES file
PAC7PU	&INDSVE..BVPUP	Input/Output	Interface work file
PAC7UP	&INDSVE..BVPUP	Input/Output	Interface work file
PAC7UQ	&INDSVE..BVPUQ	Input/Output	Interface journal file

Code	Physical name	Type	Label
C1MSGS1	&&C1MSGS1	Output	Printing of Endevor 'LIST' requests

Formatting of prints output by NDVRC1: PNDC61

Code	Physial name	Type	Label
PAC7TY	&INDSVE..BVPTY	Input	Interface TYPES file
PAC7LT	&&C1MSGS1I	Input	'C1MSGS1I' file output by NDVRC1
PAC7PT	&&C1PRINTI	Input	'C1PRINTI' file output by NDVRC1
PAC7RS	&&PAC7RS	Output	File of formatted VA Pac Elements

LISTs of VA Pac Elements in Endevor : NDVRC1

Code	Physical name	Type	Label
PAC7TY	&INDSVE..BVPTY	Input	Interface TYPES file
PAC7PU	&INDSVE..BVPUP	Input/Output	Interface work file
PAC7UP	&INDSVE..BVPUP	Input/Output	Interface work file
PAC7UQ	&INDSVE..BVPUQ	Input/Output	Interface journal file
C1MSGS1	&&C1MSGS1	Output	Printing of Endevor 'LIST' requests
C1PRINT	&&C1PRINTP	Output	'C1PRINT' print file
BSTIPT01	&&PAC7BT	Input	Endevor 'LIST' requests for VA Pac Elements

Formatting of prints output by NDVRC1: PNDC71

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	VA Pac error message file
PAC7AR	&INDUV..&BASE.AR	Input	VA Pac data file
PAC7TY	&INDSVE..BVPTY	Input	Interface TYPES file
PAC7LT	&&C1MSGS1P	Input	'C1MSGS1' file output by NDVRC1
PAC7PT	&&C1PRINTP	Input	'C1PRINT' file output by NDVRC1
PAC7RR	&&PAC7RR	Input	INFOPAC Element file

Code	Physical name	Type	Label
PAC7RS	&&PAC7RS	Output	File of INFOPAC Elements in Endevor

Inter-environment control: PNDC90

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	Error messages
PAC7AR	&INDUV..&BASE.AR	Input	VA Pac data file
PAC7TS	&INDSV..BVPTS	Input	LIBRARIES and SESSIONS file
PAC7CA	&&CINNMB1	Input	Administrator's identification transaction
PAC7UM	&&PAC7RT	Input	File of U.E.s stored in VA Pac
PAC7UN	&&PAC7RS	Input	File of INFOPAC Elements in Endevor
PAC7UR	&&PAC7UR	Output	Corrected transaction file
PAC7ET		Report	Error report

Formatting of VA Pac batch update transactions: PNDM10

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	Error messages
PACGGN	&INDSV..BVPGN	Input	Administration Database index
PACGGR	&INDSV..BVPGR	Input	Administration Database data
PACGGU	&INDSV..BVPGU	Input	Administration Database users
PAC7AR	&INDUV..&BASE.AR	Input	Va Pac data file
PAC7AN	&INDSV..&BASE.AN	Input	VA Pac index file
PAC7UR	&&PAC7UR	Input	Corrected transactions file
SYSPAF	&INDUV..SYSPAF.&USER	Output	PAF processor intermediate file
PAC7MV	&&PAC7MV	Output	Batch update transactions
PAC7ET		Report	Errors

CINN - Execution JCL

```
//*********************************************************************
//* PACBASE-ENDEVOR 3.5   : INTEGRITY CONTROL INTER-ENVIRONMENT       *
//*                WITH  2.5  METAMODEL                               *
//*********************************************************************
//BVPCINN PROC BASE=$BASE,           CODE OF DEVPT DATABASE
```

```
//        INDSV='$INDSV',            INDEX OF SYSTEM VSAM FILES VSAM
//        INDSVE='$INDSVE',          INDEX OF SYSTEM VSAM FILES ENDEVOR
//        INDSN='$INDSN',            INDEX OF NON-VSAM SYSTEM FILES
//        INDUV='$INDUV',            INDEX OF  USER  VSAM FILES
//*:      VSAMCAT='$VCAT',           USER VSAM CATALOG
//*:      SYSTCAT='$SCAT',           SYSTEM VSAM CATALOG
//        STEPLIB='$HLQ..SBVPMBR8',  LIBRARY OF LOAD-MODULES
//        LOADLIB='$LDLIB',          LOADLIB ENDEVOR
//        CONLIB='$CONLIB',          CONLIB ENDEVOR
//        SORTLIB='$BIBT',           SORT LIBRARY
//        CYL=3,                     SORT WORKS SIZE
//        OUT='$OUT',                OUTPUT CLASS
//        LSR='BLSR',                LSR BATCH SYSTEM NAME
//        UWK=$UWK,                  WORK UNIT
//        USER=,                      USER CODE
//        SPAMB='(TRK,(02,01),RLSE)', SPACE TRANSACTIONS FOR 'BSTIPT01'
//        SPAMS='(TRK,(05,05),RLSE)', SPACE 'C1MSGS1 & C1PRINT' NDVRC1
//        SPART='(TRK,(02,01),RLSE)', SPACE WORKING EXTRACTED FILE
//        SPAMV='(TRK,(02,01),RLSE)'  SPACE TRANSACTION FOR UPDP
//*-------------------------------------------------------------
//*
//INPUT1  EXEC PGM=BVPTU001
//*------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//CARTE    DD DDNAME=SYSIN,DCB=BLKSIZE=80
//PAC7MB   DD DSN=&&CINNMB1,DISP=(,PASS),
//            UNIT=&UWK,SPACE=(TRK,(1,1),RLSE),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=80)
//*
//INPUT2  EXEC PGM=BVPTU001
//*------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//         DD DSN=$BCOB,DISP=SHR
//CARTE    DD DDNAME=SYSIN,DCB=BLKSIZE=80
//PAC7MB   DD DSN=&&CINNMB2,DISP=(,PASS),
//            UNIT=&UWK,SPACE=(TRK,(1,1),RLSE),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=80)
//*
//PRMSYS  EXEC PGM=BVPRMSYS,PARM='&USER,&INDUV'
//*-----------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//         DD DSN=$BCOB,DISP=SHR
//PACRIN   DD DSN=&INDSN..BVPSY(DFSYSPAF),DISP=SHR
//PACROU   DD DSN=&&DFSYSPAF,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
//            SPACE=(TRK,(1,1),RLSE)
//SYSOUT   DD SYSOUT=&OUT
//*
//DEFINE  EXEC PGM=IDCAMS
//*----------------------
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//SYSIN    DD DSN=&&DFSYSPAF,DISP=(OLD,DELETE)
//SYSPRINT DD SYSOUT=&OUT
//*
//MAXKEY  EXEC PGM=IDCAMS
```

```
//*----------------------
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPAF   DD DSN=&INDUV..SYSPAF.&USER,DISP=SHR
//MAXKEY   DD DSN=&INDSN..BVPSY(MAXKEY),DISP=SHR
//SYSIN    DD DSN=&INDSN..BVPSY(REPRO999),DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//*
//PNDC10  EXEC PGM=BVPNDC10,REGION=0K
//*---------------------------------
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//*:         DD DSN=&SYSTCAT,DISP=SHR
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//         DD DSN=$BCOB,DISP=SHR
//SORTLIB  DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//PACGGN   DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGR   DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGU   DD DSN=&INDSV..BVPGU,DISP=SHR
//ANLSR    DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AN   DD SUBSYS=(&LSR,'DDNAME=ANLSR','BUFND=40')
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=40')
//PAC7TS   DD DSN=&INDSVE..BVPTS,DISP=SHR
//PAC7LS   DD DSN=&INDSN..BVPSY(PROCLSR),DISP=SHR
//SYSPAF   DD DSN=&INDUV..SYSPAF.&USER,DISP=SHR
//PAC7CA   DD DSN=&&CINNMB1,DISP=(OLD,PASS)
//PAC7RT   DD DSN=&&PAC7RT,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=170,BLKSIZE=25500),
//            SPACE=&SPART
//PAC7ET   DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//PNDC50  EXEC PGM=BVPNDC50
//*-----------------------
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//*:         DD DSN=&SYSTCAT,DISP=SHR
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//         DD DSN=$BCOB,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//PACGGN   DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGR   DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGU   DD DSN=&INDSV..BVPGU,DISP=SHR
//PAC7TY   DD DSN=&INDSVE..BVPTY,DISP=SHR
//PAC7MB   DD DSN=&&CINNMB2,DISP=(OLD,PASS)
//PAC7BS   DD DSN=&&PAC7BS,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
//            SPACE=&SPAMB
//PAC7BT   DD DSN=&&PAC7BT,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
```

```
//            SPACE=&SPAMB
//PAC7DD   DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//NDVRC1A EXEC PGM=NDVRC1,DYNAMNBR=1500,REGION=0K,
//        PARM='C1BM3000',COND=(00,NE,PNDC50)
//*---------------------------------------------
//STEPLIB  DD DSN=&LOADLIB,DISP=SHR
//         DD DSN=$BCOB,DISP=SHR
//CONLIB   DD DSN=&CONLIB,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK04 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//C1TPDD01 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPDD02 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPLSIN DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//C1TPLSOU DD UNIT=SYSDA,SPACE=(CYL,5)
//PAC7TY   DD DSN=&INDSVE..BVPTY,DISP=SHR
//PAC7PU   DD DSN=&INDSVE..BVPUP,DISP=SHR
//PAC7UP   DD DSN=&INDSVE..BVPUP,DISP=SHR
//PAC7UQ   DD DSN=&INDSVE..BVPUQ,DISP=SHR
//C1PLMSGS DD SYSOUT=&OUT
//*1MSGS1  DD SYSOUT=&OUT
//C1MSGS1  DD DSN=&&C1MSGS1I,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FBA,LRECL=133,BLKSIZE=26600),
//            SPACE=&SPAMS
//*1PRINT  DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,BLKSIZE=6171)
//C1PRINT  DD DSN=&&C1PRINTI,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FBA,LRECL=133,BLKSIZE=26600),
//            SPACE=&SPAMS
//SYSABEND DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//BSTIPT01 DD DSN=&&PAC7BS,DISP=(OLD,PASS)
//*
//PNDC61  EXEC PGM=BVPNDC61,COND=(00,NE,PNDC50)
//*-----------------------------------------
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//*:         DD DSN=&SYSTCAT,DISP=SHR
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//         DD DSN=$BCOB,DISP=SHR
//SORTLIB  DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//PAC7TY   DD DSN=&INDSVE..BVPTY,DISP=SHR
//PAC7LT   DD DSN=&&C1MSGS1I,DISP=(OLD,PASS)
//PAC7PT   DD DSN=&&C1PRINTI,DISP=(OLD,PASS)
```

```
//PAC7RS   DD DSN=&&PAC7RR,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=170,BLKSIZE=17000),
//            SPACE=&SPART
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//NDVRC1B EXEC PGM=NDVRC1,DYNAMNBR=1500,REGION=0K,
//        PARM='C1BM3000',COND=(00,NE,PNDC50)
//*--------------------------------------------
//STEPLIB  DD DSN=&LOADLIB,DISP=SHR
//         DD DSN=$BCOB,DISP=SHR
//CONLIB   DD DSN=&CONLIB,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK04 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//C1TPDD01 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPDD02 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPLSIN DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//C1TPLSOU DD UNIT=SYSDA,SPACE=(CYL,5)
//PAC7TY   DD DSN=&INDSVE..BVPTY,DISP=SHR
//PAC7PU   DD DSN=&INDSVE..BVPUP,DISP=SHR
//PAC7UP   DD DSN=&INDSVE..BVPUP,DISP=SHR
//PAC7UQ   DD DSN=&INDSVE..BVPUQ,DISP=SHR
//C1PLMSGS DD SYSOUT=&OUT
//*1MSGS1  DD SYSOUT=&OUT
//C1MSGS1  DD DSN=&&C1MSGS1P,DISP=(,PASS),UNIT=&UWK,

//            DCB=(RECFM=FBA,LRECL=133,BLKSIZE=26600),
//            SPACE=&SPAMS
//*1PRINT  DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,BLKSIZE=6171)
//C1PRINT  DD DSN=&&C1PRINTP,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FBA,LRECL=133,BLKSIZE=26600),
//            SPACE=&SPAMS
//SYSABEND DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//BSTIPT01 DD DSN=&&PAC7BT,DISP=(OLD,PASS)
//*
//PNDC71  EXEC PGM=BVPNDC71,COND=(00,NE,PNDC50)
//*-----------------------------------------
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//*:         DD DSN=&SYSTCAT,DISP=SHR
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//         DD DSN=$BCOB,DISP=SHR
//SORTLIB  DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
```

```
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=40')
//PAC7TY   DD DSN=&INDSVE..BVPTY,DISP=SHR
//PAC7LT   DD DSN=&&C1MSGS1P,DISP=(OLD,PASS)
//PAC7PT   DD DSN=&&C1PRINTP,DISP=(OLD,PASS)
//PAC7RR   DD DSN=&&PAC7RR,DISP=(OLD,PASS)
//PAC7RS   DD DSN=&&PAC7RS,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=170,BLKSIZE=17000),
//            SPACE=&SPART
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//PNDC90  EXEC PGM=BVPNDC90
//*-----------------------
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//*:         DD DSN=&SYSTCAT,DISP=SHR
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//         DD DSN=$BCOB,DISP=SHR
//SORTLIB  DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//PAC7TS   DD DSN=&INDSVE..BVPTS,DISP=SHR
//PAC7CA   DD DSN=&&CINNMB1,DISP=(OLD,PASS)
//PAC7UM   DD DSN=&&PAC7RT,DISP=(OLD,PASS)
//PAC7UN   DD DSN=&&PAC7RS,DISP=(OLD,PASS)
//PAC7UR   DD DSN=&&PAC7UR,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=183,BLKSIZE=18300),
//            SPACE=&SPAMV
//PAC7ET   DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//PNDM10  EXEC PGM=BVPNDM10
//*-----------------------
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//*:         DD DSN=&SYSTCAT,DISP=SHR
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//         DD DSN=$BCOB,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//PACGGN   DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGR   DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGU   DD DSN=&INDSV..BVPGU,DISP=SHR
//ANLSR    DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AN   DD SUBSYS=(&LSR,'DDNAME=ANLSR','BUFND=40')
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(&LSR,'DDNAME=ARLSR','BUFND=40')
//PAC7UR   DD DSN=&&PAC7UR,DISP=(OLD,PASS)
//SYSPAF   DD DSN=&INDUV..SYSPAF.&USER,DISP=SHR
```

```
//PAC7MV   DD DSN=&&PAC7MV,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=310,BLKSIZE=3100),
//            SPACE=&SPAMV
//PAC7ET   DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
```

JJND: Retrieval of Archived Journal 2.5 -> 3.5

JJND - General Presentation

The JJND procedure retrieves the archived journal file from the 2.5 version and transforms it into a journal operational in V3.5.

Execution condition

This procedure is to be executed when upgrading from the 2.5 version to the 3.5 version.

JJND - Description of Steps

Input recognition: PTU001

Retrieval of the archived journal: PNRJ10

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	Error messages
PACGGN	&INDSV..BVPGN	Input	Administration Database index
PACGGR	&INDSV..BVPGR	Input	Administration Database data
PACGGU	&INDSV..BVPGU	Input	Administration Database users
PAC7MB	&&JJNDMB	Input	User transactions
PAC7QI	&JNARCH	Input	Old archived journal file (V2.5)
PAC7QR	&INDUNE..BVPQU(+1)	Output	New archived journal file (V3.0)

JJND - Execution JCL

```
//*********************************************************************
//* PACBASE-ENDEVOR 3.5   : RETRIEVAL ARCHIVAL JOURNAL 2.5 -> 3.5     *
//*********************************************************************
//BVPJJND PROC OUT='$OUT',         OUTPUT CLASS
//   INDSV='$INDSV',               INDEX OF SYSTEM VSAM FILES
//   INDUNE='$INDUNE',             INDEX  USER  NON VSAM FILES ENDEVOR
```

```
//   STEPLIB='$HLQ..SBVPMBR8',     LOAD-MODULES LIBRARY
//   UNITS=$UNITUN,                UNIT FOR SAVE 'QU'
//   UWK=$UWK,                     WORK UNIT
//   VOLS='SER=$VOLUN',            VOLUME FOR SAVE 'QU'
//   SPAQU='(TRK,(10,05),RLSE)',   SPACE FOR SAVE 'QU'
//   JNARCH='????????'             SAVE OF THE ARCHIVED JOURNAL 2.5
//*                                OF THE PREVIOUS RELEASE
//*-------------------------------------------------------------------*
//*
//INPUT   EXEC PGM=BVPTU001
//*------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//CARTE    DD DDNAME=SYSIN,DCB=BLKSIZE=80
//PAC7MB   DD DSN=&&JJNDMB,DISP=(,PASS),
//            UNIT=&UWK,SPACE=(TRK,(1,1),RLSE),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=80)
//*
//PNRJ10  EXEC PGM=BVPNRJ10
//*------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//PACGGN   DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGR   DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGU   DD DSN=&INDSV..BVPGU,DISP=SHR
//PAC7MB   DD DSN=&&JJNDMB,DISP=(OLD,DELETE)
//PAC7QI   DD DSN=&JNARCH,DISP=SHR
//PAC7QR   DD DSN=&INDUNE..BVPQU(+1),DISP=(,CATLG,DELETE),
//            UNIT=&UNITS,VOL=&VOLS,SPACE=&SPAQU,
//            DCB=(&INDUNE..DSCB.BVPQU)
//PAC7DD   DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
```

JRND: Retrieval of trans. from Archived Journal

JRND - General Presentation

The JRND procedure retrieves the journal transactions which have already been archived in QU and prepares the VA Pac Batch update transactions via the selection of the archiving date and time.

Execution condition

None.

JRND - Input / Processing / Results

- One administrator identification line.

Pos.	Len.	Value	Meaning
2	1	'*'	Line code

Pos.	Len.	Value	Meaning
3	8	uuuuuuuu	User code
11	8	pppppppp	Password
19	3	lll	Update Library code
22	4	ssss	Update session

- One line for the selection of the archived transactions to be retrieved

Pos.	Len.	Value	Meaning
1	8		Selection starting date, formatted CCYYMMDD
9	6		Selection starting time, formatted HHMMSS
15	8		Selection ending date, formatted CCYYMMDD
23	6		Selection ending time, formatted HHMMSS

Output report

Generation result report.

Result

This procedure generates a P.A.F.-type VA Pac batch update transaction file for the 'UPDP' procedure.

JRND - Descriptions of Steps

Input recognition: PTU001

Definition of the 'UU' and 'NJ' work files: DEFUUNJ

Code	Physical name	Type	Label
SYSIN	&INDSN..BVPSY(DFBVPUU) &INDSN..BVPSY(DFBVPNJ)	Input	Definition of the selected transactions/ P.A.F.

Initialization of UU file: PNINUQ

Code	Physical name	Type	Label
PAC7UQ	&INDSVE..BVPUU	Output	Selected transactions UU file

Initialization of NJ file: PNINNJ

Code	Physical name	Type	Label
PAC7QJ	&INDSVE..BVPNJ	Output	'NJ' P.A.F. update transaction file

Retrieval of QU journal transactions on UU: PNDJ10

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	VA Pac error message file
PAC7AR	&INDUV..&BASE.AR	Input	VA Pac data file
PACGGN	&INDSV..BVPGN	Input	Administration Database index file
PACGGR	&INDSV..BVPGR	Input	Administration Database data file
PACGGU	&INDSV..BVPGU	Input	Adminstration Database users file
PAC7US	&INDUNE..BVPQU(0)	Input	Journal archiving file
PAC7MB	&&JRNDMB	Input	User input file
PAC7UQ	&INDSVE..BVPUU	Output	UU selected transactions file
PAC7MV	&INPUT	Output	Administrator identification transactions
PAC7DD		Report	Authorization control
PAC7ET		Report	Errors

Extraction of Endevor journal: PNDQ10

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE		VA Pac error message file VA Pac
PACGGN	&INDSV..BVPGN	Input	Administration Database index
PACGGR	&INDSV..BVPGR	Input	Administration Database data
PACGGU	&INDSV..BVPGU	Input	Administration Database users
PAC7AR	&INDUV..&BASE.AR	Input	VA Pac index file
PAC7MB	&&JRNDMB		User input file
PAC7UQ	&INDSVE..BVPUU	Input	Selected transactions file
PAC7UR	&&PAC7UR	Output	Endevor transactions file
PAC7DD		Report	Authorization control

Preparation of VA Pac Repository update transactions: PNDQ20

Code	Physical name	Type	Label
PAC7UR	&&PAC7UR	Input	Endevor transactions file
PAC7AE	&INDSV..BVPAE	Input	VA Pac error message file
PAC7AN	&INDUV..&BASE.AN	Input	VA Pac index file
PAC7AR	&INDUV..&BASE.AR	Input	VA Pac data file
PAC7AY	&INDUV..&BASE.AY	Input	VA Pac long data file
PAC7QJ	&INDSVE..BVPNJ	Output	VSAM file for VA Pac update

P.A.F. transactions for VA Pac 'UPDP': PCM9AS

Code	Physical name	Type	Label
PAC7AN	&INDUV..&BASE.AN	Input	VA Pac index file
PAC7AR	&INDUV..&BASE.AR	Input	VA Pac data file
PAC7MB	&&JRNDMB	Input	User input file
PAC7QJ	&INDSVE..BVPNJ	Input	VSAM file for VA Pac update
PAC7QK	&&UPDP	Output	PAF transactions for VA Pac update via UPDP

Deletion of 'UU' and 'QJ' work files: DELETE

Code	Physical name	Type	Label
SYSIN	&INDSN..BVPSY(DLBVPUU) &INDSN..BVPSY(DL&BASE.QJ)	Input	Command for the deletion of 'UU' and 'QJ'

JRND - Execution JCL

```
//*********************************************************************
//* PACBASE-ENDEVOR 3.5   : RETRIEVAL OF THE ARCHIVED JOURNAL TRANSAC.*
//*********************************************************************
//BVPJRND PROC BASE=$BASE,           CODE OF DEVPT DATABASE
//       INDSN='$INDSN',             INDEX SYSTEM NON VSAM FILE VA-PAC
//       INDUNE='$INDUNE',           INDEX  USER  NON VSAM FILE ENDEVOR
//       INDSV='$INDSV',             INDEX SYSTEM VSAM FILES VA-PAC
//       INDSVE='$INDSVE',           INDEX SYSTEM VSAM FILES ENDEVOR
//       INDUV='$INDUV',             INDEX OF  USER  VSAM FILE VA-PAC
//*:     VSAMCAT='$VCAT',            USER VSAM CATALOG
//*:     SYSTCAT='$SCAT',            SYSTEM VSAM CATALOG
//       STEPLIB='$HLQ..SBVPMBR8',   LIBRARY OF LOAD-MODULES
//       SORTLIB='$BIBT',            SORT LIBRARY
//       CYL=3,                      SORT WORKS SIZE
//       OUT='$OUT',                 OUTPUT CLASS
//       UWK=$UWK,                   WORK UNIT
```

```
//       SPANJ='(TRK,(10,05),RLSE)', SPACE FILE FOR VA-PAC 'UPDP'
//       SPAUR='(TRK,(10,05),RLSE)'  SPACE TEMPORARY FILE
//*-------------------------------------------------------------------*
//*
//INPUT   EXEC PGM=BVPTU001
//*-----------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//CARTE    DD DDNAME=SYSIN,DCB=BLKSIZE=80
//PAC7MB   DD DSN=&&JRNDMB,DISP=(,PASS),
//            UNIT=&UWK,SPACE=(TRK,(1,1),RLSE),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=80)
//*
//DEFUUNJ EXEC PGM=IDCAMS
//*----------------------
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSIN    DD DSN=&INDSN..BVPSY(DFBVPUU),DISP=SHR
//         DD DSN=&INDSN..BVPSY(DFBVPNJ),DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//*
//PNINUQ  EXEC PGM=BVPNINUQ
//*------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//PAC7UQ   DD DSN=&INDSVE..BVPUU,DISP=SHR
//SYSOUT   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//PNINNJ  EXEC PGM=BVPCMIWY
//*------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*:        DD DSN=&SYSTCAT,DISP=SHR
//PAC7QJ   DD DSN=&INDSVE..BVPNJ,DISP=SHR
//SYSOUT   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//*
//PNDJ10  EXEC PGM=BVPNDJ10
//*------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*:        DD DSN=&SYSTCAT,DISP=SHR
//PAC7UQ   DD DSN=&INDSVE..BVPUU,DISP=SHR
//PAC7US   DD DSN=&INDUNE..BVPQU(0),DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//PACGGN   DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGR   DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGU   DD DSN=&INDSV..BVPGU,DISP=SHR
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//PAC7MB   DD DSN=&&JRNDMB,DISP=(OLD,PASS)
//PAC7MV   DD DSN=&&JRNDMV,DISP=(,PASS),
//            UNIT=&UWK,SPACE=(TRK,(1,1),RLSE),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=80)
//PAC7DD   DD SYSOUT=&OUT
//PAC7ET   DD SYSOUT=&OUT
```

```
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//PNDQ10  EXEC PGM=BVPNDQ10,COND=(00,NE,PNDJ10)
//*-----------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//SORTLIB  DD DSN=&SORTLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*:        DD DSN=&SYSTCAT,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//PACGGN   DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGR   DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGU   DD DSN=&INDSV..BVPGU,DISP=SHR
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//PAC7MB   DD DSN=&&JRNDMV,DISP=(OLD,PASS)
//PAC7UQ   DD DSN=&INDSVE..BVPUU,DISP=SHR
//PAC7UR   DD DSN=&&PAC7UR,DISP=(NEW,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=183,BLKSIZE=1830),
//            SPACE=&SPAUR
//PAC7DD   DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//PNDQ20  EXEC PGM=BVPNDQ20,COND=(00,NE,PNDJ10)
//*-----------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//ANLSR    DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AN   DD SUBSYS=(BLSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//AYLSR    DD DSN=&INDUV..&BASE.AY,DISP=SHR
//PAC7AY   DD SUBSYS=(BLSR,'DDNAME=AYLSR','BUFND=40')
//PAC7QJ   DD DSN=&INDSVE..BVPNJ,DISP=SHR
//PAC7UR   DD DSN=&&PAC7UR,DISP=(OLD,PASS)
//SYSOUT   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//PCM9AS  EXEC PGM=BVPCM9AS,COND=((00,NE,PNDJ10),(00,NE,PNDQ20))
//*-------------------------------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//ANLSR    DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AN   DD SUBSYS=(BLSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//PAC7MB   DD DSN=&&JRNDMV,DISP=(OLD,PASS)
```

```
//PAC7QJ   DD DSN=&INDSVE..BVPNJ,DISP=SHR
//PAC7QK   DD DSN=&&UPDP,DISP=(,PASS),
//            DCB=(RECFM=FB,LRECL=310,BLKSIZE=6200),
//            UNIT=&UWK,SPACE=&SPANJ
//SYSPRINT DD SYSOUT=&OUT
//*
//DELETE  EXEC PGM=IDCAMS,COND=((00,NE,PNDJ10),(00,NE,PNDQ20))
//*-------------------------------------------------------------
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN    DD DSN=&INDSN..BVPSY(DLBVPUU),DISP=SHR
//         DD DSN=&INDSN..BVPSY(DLBVPNJ),DISP=SHR
//*
```

LSND: Update of LIBRARIES & SESSIONS Tables (2.5)

LSND - General Presentation

The LSND procedure updates the TARGET LIBRARIES and SESSIONS table used by the interface.

Execution condition

None.

LSND - Input / Processing / Results

. One line per update request.

Session update parameter line

Pos.	Lon.	Value	Meaning
1	1		Transaction code
		'C'	Creation
		'M'	Modification
		'D'	Deletion
		'X'	Creation or Modification
2	4	base	VA Pac Database code
6	2	'NS'	Line code
8	4	ssss	Target session number
12	1	'Z' 'T'	Target session status Current session ('9999') Frozen session
13	3	nnn	Line number
16	5	sssss	Starting session number
21	5	sssss	Ending session number

Pos.	Lon.	Value	Meaning
26	36		Comments

The starting and ending sessions may have a 'Z' or 'T' status. The 'T' status is included into 'Z' for the same session.

Library update parmeter line

Pos.	Lon.	Value	Meaning
1	1		Transaction code
		'C'	Creation
		'M'	Modification
		'D'	Deletion
		'X'	Creation or Modification
2	4	base	VA Pac Database code
6	2	'NB'	Line code
8	3	bbb	Target library code
13	3	nnn	Line number
16	3	bbb	VA Pac generation library code
19	36		Comments

Output reports

An execution report with the detected errors and a report which lists the TYPES, TARGET SESSIONS and LIBRARIES defined on the site.

LSND - Description of Steps

Input recognition: PTU001

Update of LIBRAIRES and SESSIONS file: PNDU10

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	Error messages
PAC7MV	&&LSNDMB	Input	Updata transactions
PAC7TS	&INDSVE..BVPTS	Output	LIBRARIES and SESSIONS file
PAC7ET		Report	Update report

Printing of TYPEs and LIBRARIES/SESSIONS: PNDU30

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	VA Pac error message file
PAC7TY	&INDSV..BVPTY	Input	TYPES file
PAC7TS	&INDSVE..BVPTS	Input	LIBRARIES and SESSIONS file
PAC7ET		Report	Status of TYPEs and LIBRARIES and SESSIONS

LSND - Execution JCL

```
//*********************************************************************
//* PACBASE-ENDEVOR 3.5 : MISE A JOUR TABLE BIBLIOTHEQUES/SESSION     *
//*********************************************************************
//BVPLSND PROC INDSV='$INDSV',          INDEX OF VSAM SYSTEM FILES
//         INDSVE='$INDSVE',   INDEX OF ENDEVOR VSAM SYSTEM FILES
//*:       VSAMCAT='$VCAT',                    USER VSAM CATALOG
//*:       SYSTCAT='$SCAT',                  SYSTEM VSAM CATALOG
//         STEPLIB='$HLQ..SBVPMBR8',      LIBRARY OF LOAD-MODULES
//         SORTLIB='$BIBT',                         SORT LIBRARY
//         OUT=$OUT,                       OUTPUT CLASS OF REPORT
//         UWK=$UWK                                 WORK UNIT
//*-------------------------------------------------------------
//*
//INPUT   EXEC PGM=BVPTU001
//*------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//CARTE    DD DDNAME=SYSIN,DCB=BLKSIZE=80
//PAC7MB   DD DSN=&&LSNDMB,DISP=(,PASS),
//            UNIT=&UWK,SPACE=(TRK,(1,1),RLSE),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=80)
//*
//PNDU10  EXEC PGM=BVPNDU10
//*------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//         DD DSN=$BCOB,DISP=SHR
//SORTLIB  DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//*:          DD DSN=&SYSTCAT,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//PAC7TS   DD DSN=&INDSVE..BVPTS,DISP=SHR
//PAC7MV   DD DSN=&&LSNDMB,DISP=(OLD,DELETE)
//PAC7ET   DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//PNDU30  EXEC PGM=BVPNDU30
//*------------------------
```

```
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//*:         DD DSN=&SYSTCAT,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//PAC7TS   DD DSN=&INDSVE..BVPTS,DISP=SHR
//PAC7TY   DD DSN=&INDSVE..BVPTY,DISP=SHR
//PAC7ET   DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
```

MEND: Formatting of VA Pac Update Trans. in 'QJ'

MEND - General Presentation

The MEND procedure prepares the VA Pac Repository update transactions in the 'QJ' VSAM file, using the 'UQ' interface journal. It also archives this journal. The 'UPDP' VA Pac procedure will update the Repository.

Only the transactions of the current VA Pac Database will be selected.

Execution condition

The interface must not be in use.

MEND - Input / Processing / Results

One administrator identification line:

Pos.	Len.	Value	Meaning
2	1	'*'	Line code
3	8	uuuuuuuu	User code
11	8	pppppppp	Password

Report

Printing of generation result.

Result

This procedure generates a P.A.F.-type VA Pac batch update transaction file to be used by the UPDP procedure.

MEND - Description of Steps

Input recognition: PTU001

Extraction of Endevor journal: PNDQ10

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE		VA Pac error message file VA Pac
PACGGN	&INDSV..BVPGN	Input	Administration Database index
PACGGR	&INDSV..BVPGR	input	Administration Database data
PACGGU	&INDSV..BVPGU	Input	Administration Database users
PAC7AR	&INDUV..&BASE.AR	Input	VA Pac index file
PAC7MB	&&MENDMB		User input file
PAC7UQ	&INDSVE..BVPUU	Input	Selected transaction file
PAC7UR	&&PAC7UR	Output	Endevor transaction file
PAC7DD		Report	Authorization control

Preparation of VA Pac Repository update transactions: PNDQ21

Code	Physical name	Type	Label
PAC7UR	&&PAC7UR	Input	Endevor transaction file
PAC7MB	&&MENDMB	Input	User input file
PAC7AE	&INDSV..BVPAE	Input	VA Pac error message file
PAC7AN	&INDUV..&BASE.AN	Input	VA Pac index file
PAC7AR	&INDSV..&BASE.AR	Input	VA Pac data file
PAC7AY	&INDUV..&BASE.AY	Input	VA Pac random data
PAC7QJ	&INDSV..BVPQJ	Output	QJ file for VA Pac live update

Archiving of Endevor transactions: PNDQ50

Code	Physical name	Type	Label
PAC7AR	&INDSV..&BASE.AR	Input	VA Pac data file
PAC7UQ	&INDSVE..BVPUQ	Input	Interface journal file
PAC7US	&INDUNE..BVPQU(0)	Input	Old journal archiving file
PAC7SU	&INDUNE..BVPQU(+1)	Output	New journal archiving file
PAC7QU	&&PAC7QU	Output	Journal transactions from other Databases
PAC7CC	&&PAC7CC	Output	Transactions counter

Redefinition of the 'UQ' interface journal: DEFINE

Code	Physical name	Type	Label
SYSIN	&INDSN..BVPSY(DFBVPUQ)	Input	Definition of the journal file

Restoration in 'UQ' of the remaining transactions: PNDQ60

Code	Physical name	Type	Label
PAC7CC	&PAC7CC	Input	Counter of the transactions from other Databases
PAC7QU	&&PAC7QU	Input	Journal transactions from other Databases
PAC7UQ	&INDSVE..BVPUQ	Output	'UQ' interface journal file

MEND - Execution JCL

```
//*********************************************************************
//* PACBASE-ENDEVOR 3.5   : IMPOSITION TRANSACTIONS FOR UPDATING      *
//*********************************************************************
//BVPMEND PROC BASE=$BASE,            CODE OF DEVPT DATABASE
//        INDSN='$INDSN',             INDEX SYSTEM NON VSAM FILESVA-PAC
//        INDUNE='$INDUNE',           INDEX  USER  NON VSAM FILES NDVR
//        INDSV='$INDSV',             INDEX SYSTEM VSAM FILES VA-PAC
//        INDSVE='$INDSVE',           INDEX SYSTEM VSAM FILES ENDVOR
//        INDUV='$INDUV',             INDEX OF  USER  VSAM FILE VA-PAC
//*:      VSAMCAT='$VCAT',            USER VSAM CATALOG
//*:      SYSTCAT='$SCAT',            SYSTEM VSAM CATALOG
//        STEPLIB='$HLQ..SBVPMBR8',   LIBRARY OF LOAD-MODULES
//        SORTLIB='$BIBT',            SORT LIBRARY
//        CYL=1,                      SORT WORKS SIZE
//        OUT='$OUT',                 OUTPUT CLASS
//        UWK=$UWK,                   WORK UNIT
//        UNITS=$UNITUN,              'UQ' BACKUP UNIT
//        VOLS='SER=$VOLUN',          'UQ' BACKUP VOLUME
//        SPACC='(TRK,(01,01),RLSE)', TRANSACTIONS OF OTHER BASES COUNT
//        SPAQU='(TRK,(10,05),RLSE)', TRANSACTIONS OF OTHER BASES SPACE
//        SPASU='(TRK,(10,05),RLSE)', 'UQ' BACKUP SPACE
//        SPAUR='(TRK,(02,01),RLSE)'  SPACE TEMPORARY FILE
//*--------------------------------------------------------------------*
//*
//INPUT   EXEC PGM=BVPTU001
//*-----------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//CARTE    DD DDNAME=SYSIN,DCB=BLKSIZE=80
//PAC7MB   DD DSN=&&MENDMB,DISP=(,PASS),
//            UNIT=&UWK,SPACE=(TRK,(1,1),RLSE),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=80)
//*
//PNDQ10  EXEC PGM=BVPNDQ10
//*-----------------------
```

```
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//SORTLIB  DD DSN=&SORTLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*:        DD DSN=&SYSTCAT,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//PACGGN   DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGR   DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGU   DD DSN=&INDSV..BVPGU,DISP=SHR
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//PAC7MB   DD DSN=&&MENDMB,DISP=(OLD,PASS)
//PAC7UQ   DD DSN=&INDSVE..BVPUQ,DISP=SHR
//PAC7UR   DD DSN=&&PAC7UR,DISP=(NEW,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=183,BLKSIZE=1830),
//            SPACE=&SPAUR
//PAC7DD   DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//PNDQ21  EXEC PGM=BVPNDQ21,COND=(00,NE,PNDQ10)
//*-----------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//ANLSR    DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AN   DD SUBSYS=(BLSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//AYLSR    DD DSN=&INDUV..&BASE.AY,DISP=SHR
//PAC7AY   DD SUBSYS=(BLSR,'DDNAME=AYLSR','BUFND=40')
//PAC7MB   DD DSN=&&MENDMB,DISP=(OLD,PASS)
//PAC7QJ   DD DSN=&INDSV..BVPQJ,DISP=SHR
//PAC7UR   DD DSN=&&PAC7UR,DISP=(OLD,PASS)
//SYSOUT   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//PNDQ50  EXEC PGM=BVPNDQ50,COND=((00,NE,PNDQ10),(00,NE,PNDQ21))
//*-------------------------------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//*:         DD DSN=&SYSTCAT,DISP=SHR
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//PAC7US   DD DSN=&INDUNE..BVPQU(0),DISP=SHR
//PAC7UQ   DD DSN=&INDSVE..BVPUQ,DISP=SHR
//PAC7SU   DD DSN=&INDUNE..BVPQU(+1),DISP=(,CATLG,DELETE),
//            VOL=&VOLS,
//            UNIT=&UNITS,SPACE=&SPASU,
//            DCB=&INDUNE..DSCB.BVPQU
//PAC7CC   DD DSN=&&PAC7CC,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=170,BLKSIZE=170),
```

```
//            SPACE=&SPACC
//PAC7QU   DD DSN=&&PAC7QU,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=170,BLKSIZE=1700),
//            SPACE=&SPAQU
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//DEFINE  EXEC PGM=IDCAMS,COND=((00,NE,PNDQ10),(00,NE,PNDQ21))
//*-------------------------------------------------------
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN    DD DSN=&INDSN..BVPSY(DFBVPUQ),DISP=SHR
//*
//PNDQ60  EXEC PGM=BVPNDQ60,COND=((00,NE,PNDQ10),(00,NE,PNDQ21))
//*-------------------------------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//PAC7CC   DD DSN=&&PAC7CC,DISP=(OLD,DELETE)
//PAC7QU   DD DSN=&&PAC7QU,DISP=(OLD,DELETE)
//PAC7UQ   DD DSN=&INDSVE..BVPUQ,DISP=SHR
//SYSOUT   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
```

MNDO: Formatting of VA Pac Update Trans. (2.5)

MNDO - General Presentation

The MNDO procedure prepares the VA Pac Repository update transactions from the 'UQ' Interface journal and archives this journal.

The Repository update is performed by the UPDP VA Pac procedure.

Only the transactions of the current VA Pac database are selected.

Execution conditions

The interface must not be in use.

MNDO - Input / Processing / Results

An administrator identification line:

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

Printed output

The procedure prints the result of the generation.

Results

This procedure generates a file containing P.A.F.-type batch update transactions for the UPDP VA Pac procedure.

MNDO - Description of Steps

Input recognition: PTU001

Initialization of the KSDS work file: IDCAMS

Pre-generation of update transactions: PNDM05

Code	Physical name	Type	Label
PAC7AR	&INDUV..&BASE.AR	Input	Development Database data
PAC7TS	&INDUV..&BASE.TS	Input	Libraries and sessions
PAC7UQ	&INDSVE..BVPUQ	Input	Interface journal
PAC7MV	&&MNDOMB	Input	User transactions
PAC7UR	&&PAC7UR	Output	Endevor transactions

Generation of update transactions: PNDM10

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	Error messages
PAC7AN	&INDUV..&BASE.AN	Input	Development Database index
PAC7AR	&INDUV..&BASE.AR	Input	Development Database data
PACGGN	&INDSV..BVPGN	Input	Administration Database index
PACGGR	&INDSV..BVPGR	Input	Administration Database data
PACGGU	&INDSV..BVPGU	Input	Administration Database users
PAC7UR	&&PAC7UR	Input	Endevor transactions
SYSPAF	&INDUV..SYSPAF.&USER	Input / Output	PAF standard KSDS file
PAC7MV	&&PAC7MV	Output	VA Pac update transactions
PAC7ET		Report	List of errors

Archiving of Endevor transactions: PNDQ50

Code	Physical name	Type	Label
PAC7AR	&INDSV..&BASE.AR	Input	VA Pac data file
PAC7UQ	&INDSVE..BVPUQ	Input	Interface journal file
PAC7US	&INDUNE..BVPQU(0)	Input	Old journal archiving file
PAC7SU	&INDUNE..BVPQU(+1)	Output	New journal archiving file
PAC7QU	&&PAC7QU	Output	Journal transactions from other Databases
PAC7CC	&&PAC7CC	Output	Transactions counter

Redefinition of the 'UQ' interface journal: DEFINE

Code	Physical name	Type	Label
SYSIN	&INDSN..BVPSY(DFBVPUQ)	Input	Definition of the journal file

Restoration in 'UQ' of the remaining transactions: PNDQ60

Code	Physical name	Type	Label
PAC7CC	&PAC7CC	Input	Counter of the transactions from other Databases
PAC7QU	&&PAC7QU	Input	Journal transactions from other Databases
PAC7UQ	&INDSVE..BVPUQ	Output	'UQ' interface journal file

MNDO - Execution JCL

```
//*********************************************************************
//* PACBASE-ENDEVOR 2.5   : MISE EN FORME MVTS M.A.J. PACBASE         *
//*********************************************************************
//BVPMNDO PROC BASE=$BASE,           CODE OF DEVPT DATABASE
//        INDSV='$INDSV',            INDEX FICH. SYSTEME VSAM
//        INDUV='$INDUV',            INDEX FICH. USER VSAM FILES
//        INDSN='$INDSN',            INDEX FICH. SYSTEME NON VSAM
//        INDSVE='$INDSVE',          INDEX SYSTEM VSAM FILES END
//        INDUNE='$INDUNE',          INDEX  USER  NON VSAM FILES
//*:      VSAMCAT='$VCAT',           USER VSAM CATALOG
//*:      SYSTCAT='$SCAT',           SYSTEM VSAM CATALOG
//        STEPLIB='$HLQ..SBVPMBR8',  LIBRARY OF LOAD-MODULES
//        SORTLIB='$BIBT',           SORT LIBRARY
//        CYL=1,                     TAILLE WORKS DE TRI
//        OUT='$OUT',                OUTPUT CLASS
//        UWK=$UWK,                  WORK UNIT
//        UNITS=$UNITUN,             UQ BACKUP UNIT
//        VOLS='SER=$VOLUN',         UQ BACKUP VOLUME
```

```
//        USER=,                     USER CODE
//       SPACC='(TRK,(01,01),RLSE)', SPACE OTHER DATABASES
//       SPAMV='(TRK,(05,01),RLSE)', SPACE UPDATE FILE
//       SPAQU='(TRK,(10,05),RLSE)', SPACE OTHER DATABASES
//       SPASU='(TRK,(10,05),RLSE)', SPACE BACKUP 'UQ'
//       SPAUR='(TRK,(02,01),RLSE)'  SPACE TEMPORARY FILES
//*-------------------------------------------------------------
//*
//INPUT   EXEC PGM=BVPTU001
//*------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//         DD DSN=$BCOB,DISP=SHR
//CARTE    DD DDNAME=SYSIN,DCB=BLKSIZE=80
//PAC7MB   DD DSN=&&MNDOMB,DISP=(,PASS),
//            UNIT=&UWK,SPACE=(TRK,(1,1),RLSE),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=80)
//*
//PRMSYS  EXEC PGM=BVPRMSYS,PARM='&USER,&INDUV'
//*-----------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//         DD DSN=$BCOB,DISP=SHR
//PACRIN   DD DSN=&INDSN..BVPSY(DFSYSPAF),DISP=SHR
//PACROU   DD DSN=&&DFSYSPAF,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
//            SPACE=(TRK,(1,1),RLSE)
//SYSOUT   DD SYSOUT=&OUT
//*
//DEFINE  EXEC PGM=IDCAMS
//*----------------------
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//SYSIN    DD DSN=&&DFSYSPAF,DISP=(OLD,DELETE)
//SYSPRINT DD SYSOUT=&OUT
//*
//MAXKEY  EXEC PGM=IDCAMS
//*----------------------
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSPAF   DD DSN=&INDUV..SYSPAF.&USER,DISP=SHR
//MAXKEY   DD DSN=&INDSN..BVPSY(MAXKEY),DISP=SHR
//SYSIN    DD DSN=&INDSN..BVPSY(REPRO999),DISP=SHR
//*
//PNDM05  EXEC PGM=BVPNDM05
//*------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//         DD DSN=$BCOB,DISP=SHR
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//*:         DD DSN=&SYSTCAT,DISP=SHR
//SORTLIB  DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//PAC7AR   DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7TS   DD DSN=&INDSVE..BVPTS,DISP=SHR
//PAC7UQ   DD DSN=&INDSVE..BVPUQ,DISP=SHR
//PAC7MV   DD DSN=&&MNDOMB,DISP=(OLD,DELETE)
```

```
//PAC7UR   DD DSN=&&PAC7UR,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=183,BLKSIZE=18300),
//            SPACE=&SPAUR
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//PNDM10  EXEC PGM=BVPNDM10,COND=(00,NE,PNDM05)
//*-----------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//         DD DSN=$BCOB,DISP=SHR
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//*:         DD DSN=&SYSTCAT,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//PAC7AN   DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AR   DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PACGGN   DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGR   DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGU   DD DSN=&INDSV..BVPGU,DISP=SHR
//PAC7UR   DD DSN=&&PAC7UR,DISP=(OLD,DELETE)
//SYSPAF   DD DSN=&INDUV..SYSPAF.&USER,DISP=SHR
//PAC7MV   DD DSN=&&PAC7MV,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=310,BLKSIZE=6200),
//            SPACE=&SPAMV
//PAC7ET   DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//PNDQ50  EXEC PGM=BVPNDQ50,COND=((00,NE,PNDM05),(00,NE,PNDM10))
//*-------------------------------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//         DD DSN=$BCOB,DISP=SHR
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//*:         DD DSN=&SYSTCAT,DISP=SHR
//PAC7AR   DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7US   DD DSN=&INDUNE..BVPQU(0),DISP=SHR
//PAC7UQ   DD DSN=&INDSVE..BVPUQ,DISP=SHR
//PAC7SU   DD DSN=&INDUNE..BVPQU(+1),DISP=(,CATLG,DELETE),
//            VOL=&VOLS,
//            UNIT=&UNITS,SPACE=&SPASU,
//            DCB=&INDUNE..DSCB.BVPQU
//PAC7QU   DD DSN=&&PAC7QU,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=170,BLKSIZE=1700),
//            SPACE=&SPAQU
//PAC7CC   DD DSN=&&PAC7CC,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=170,BLKSIZE=170),
//            SPACE=&SPACC
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//DEFINE  EXEC PGM=IDCAMS,COND=((00,NE,PNDM05),(00,NE,PNDM10))
```

```
//*-------------------------------------------------------------
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN    DD DSN=&INDSN..BVPSY(DFBVPUQ),DISP=SHR
//*
//PNDQ60  EXEC PGM=BVPNDQ60,COND=((00,NE,PNDM05),(00,NE,PNDM10))
//*-------------------------------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//         DD DSN=$BCOB,DISP=SHR
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//*:         DD DSN=&SYSTCAT,DISP=SHR
//PAC7CC   DD DSN=&&PAC7CC,DISP=(OLD,DELETE)
//PAC7QU   DD DSN=&&PAC7QU,DISP=(OLD,DELETE)
//PAC7UQ   DD DSN=&INDSVE..BVPUQ,DISP=SHR
//SYSOUT   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
```

RIND: Creation of Infopac Elements (Retrieval)

RIND - General Presentation

The RIND procedure creates, in ENDEVOR, the INFOPAC ELEMENTS which correspond to the VA Pac entities created in ENDEVOR before the installation of the VA Pac-ENDEVOR interface on the site.

Execution condition

This procedure is prepared by the 'RRND: Existing Data Retrieval' procedure.

RIND - Description of Steps

Creation of a temporary PDS for INFOPAC Elements: STEP01

Code	Physical name	Type	Label
DD1	&INDUNE..&BASE.BB	Output	PDS of INFOPAC Elements

Loading of the INFOPAC Elements in the PDS: STEP02

Code	Physical name	Type	Label
SYSIN	./ add name=Innnnnnn	Input	INFOPAC contents for each Element
SYSUT1 SYSUT2	&INDUNE..&BASE.BB	I/O	PDS of INFOPAC Elements

Creation of INFOPAC Elements in Endevor : STEP03

Code	Physical name	Type	Label
PAC7TY	&INDSVE..BVPTY	Input	TYPES file
INFOPAC	*.STEP01.DD1	Input	PDS of INFOPAC Elements
BSTIPT01	(overwritten line)	Input	Endevor ADD request for INFOPAC Elements
PAC7PU	&INDSVE..BVPUP	Input/Output	Interface work file
PAC7UP	&INDSVE..BVPUP	Input/Otput	Interface work file
PAC7UQ	&INDSVE..BVPUQ	Output	Interface journal file

RIND - Execution JCL

```
//*********************************************************************
//* PACBASE-ENDEVOR 3.5   : CREATE 'INFOPAC'     (RETRIEVAL ELEMENTS) *
//*********************************************************************
//BVPRIND PROC BASE=$BASE,            CODE OF DEVPT DATABASE
//         INDSVE='$INDSVE',          INDEX SYSTEM VSAM FILES ENDEVOR
//         INDUNE='$INDUNE',          INDEX  USER  NON VSAM FILES NDVR
//*:       VSAMCAT='$VCAT',           USER VSAM CATALOG
//         LOADLIB='$LDLIB',          LOADLIB ENDEVOR
//         CONLIB='$CONLIB',          CONLIB ENDEVOR
//         OUT='$OUT',                OUTPUT CLASS
//         VOLS='SER=$VOLUN',         NON VSAM USER FILES VOLUME
//         UNITS=$UNITUN,             NON VSAM USER FILES UNIT
//         SPABB='(TRK,(20,10,20),RLSE)' SPACE TEMPORARY PDS
//*-------------------------------------------------------------------*
//*
//*********************************************
//* CREATE TEMPORARY PDS FILE                 *
//*********************************************
//*
//STEP01  EXEC PGM=IEFBR14
//*----------------------
//DD1      DD DSN=&INDUNE..&BASE.BB,DISP=(,CATLG,DELETE),
//            UNIT=&UNITS,
//            VOL=&VOLS,
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=80,DSORG=PO),
//            SPACE=&SPABB
//*
//*********************************************
//* LOADING 'INFOPAC' ELEMENTS                *
//*********************************************
//*
//STEP02  EXEC PGM=IEBUPDTE,PARM=NEW
//*--------------------------------
//SYSPRINT DD SYSOUT=&OUT
//SYSUT1   DD DSN=*.STEP01.DD1,DISP=(SHR,KEEP,DELETE)
//SYSUT2   DD DSN=*.STEP01.DD1,DISP=(SHR,KEEP,DELETE)
//SYSIN    DD DUMMY
//*
```

```
//*******************************************
//* ENDEVOR 'ADD' ACTION FOR 'INFOPAC' ELEMENT *
//*******************************************
//*
//STEP03  EXEC PGM=NDVRC1,DYNAMNBR=1500,REGION=0K,PARM='C1BM3000'
//*-------------------------------------------------------------
//STEPLIB  DD DSN=&LOADLIB,DISP=SHR
//CONLIB   DD DSN=&CONLIB,DISP=SHR
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK04 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//C1TPDD01 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPDD02 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPLSIN DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//C1TPLSOU DD UNIT=SYSDA,SPACE=(CYL,5)
//PAC7TY   DD DSN=&INDSVE..BVPTY,DISP=SHR
//PAC7PU   DD DSN=&INDSVE..BVPUP,DISP=SHR
//PAC7UP   DD DSN=&INDSVE..BVPUP,DISP=SHR
//PAC7UQ   DD DSN=&INDSVE..BVPUQ,DISP=SHR
//INFOPAC  DD DSN=*.STEP01.DD1,DISP=(SHR,DELETE,DELETE)
//C1PLMSGS DD SYSOUT=&OUT
//C1MSGS1  DD SYSOUT=&OUT
//C1PRINT  DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,BLKSIZE=6171)
//PTRACE   DD SYSOUT=&OUT
//SYSABEND DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//BSTIPT01 DD DUMMY
//*
```

RPND: Creation of VA Pac Element (Retrieval)

RPND - General Presentation

The RPND procedure prepares the P.A.F.-type VA Pac batch update transactions for the retrieval, from the 'UQ' interface journal prepared by the RRND procedure.

The UPDP procedure will then use these transactions to update the VA Pac Repository.

Execution condition

The RRND procedure must be executed first.

RPND - Input / Processing / Results

One administrator identification line.

Pos.	Len.	Value	Meaning
2	1	'*'	Line code
3	8	uuuuuuuu	User code
11	8	pppppppp	Password
19	3	lll	Update Library code
22	4	ssss	Update session

Report

Printing of generation result.

Result

This procedure generates a P.A.F.-type VA Pac batch update transaction file to be used by the UPDP procedure.

RPND - Description of Steps

Input recognition: PTU001

Definition of the 'QJ' work file: DEFJQ

Code	Physical name	Type	Label
SYSIN	&INDSN..BVPSY(DF&BASE.QJ)	Input	Definition of P.A.F. transaction file

Initialization of NJ file: PNINNJ

Code	Physical name	Type	Label
PAC7QJ	&INDSVE..BVPNJ	Output	'NJ' P.A.F. update transaction file

Extraction of Endevor journal: PNDQ10

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE		VA Pac error message file
PACGGN	&INDSV..BVPGN	Input	Administration Database index
PACGGR	&INDSV..BVPGR	Input	Administration Database data
PACGGU	&INDSV..BVPGU	Input	Administration Database users

Code	Physical name	Type	Label
PAC7AR	&INDUV..&BASE.AR	Input	VA Pac index file
PAC7MB	&&RPNDMB		User input file
PAC7UQ	&INDSVE..BVPUQ	Input	Selected transactions file
PAC7UR	&&PAC7UR	Output	Endevor transaction file
PAC7DD		Report	Authorization control

Preparation of VA Pac Repository update transactions: PNDQ20

Code	Physical name	Type	Label
PAC7UR	&&PAC7UR	Input	Endevor transactions file
PAC7AE	&INDSV..BVPAE	Input	VA Pac error message file
PAC7AN	&INDUV..&BASE.AN	Input	VA Pac index file
PAC7AR	&INDUV..&BASE.AR	Input	VA Pac data file
PAC7AY	&INDUV..&BASE.AY	Input	VA Pac long data file
PAC7QJ	&INDSVE..BVPNJ	Output	VSAM file for VA Pac update

P.A.F. transactions for 'UPDP': PCM9AS

Code	Physical name	Type	Label
PAC7AN	&INDUV..&BASE.AN	Input	VA Pac index file
PAC7AR	&INDUV..&BASE.AR	Input	VA Pac data file
PAC7MB	&&RPNDMB	Input	User input file
PAC7QJ	&INDSVE..BVPNJ	Input	VSAM file for VA Pac update
PAC7QK	&&UPDP	Output	PAF transaction file for VA Pac update via UPDP

Redefinition of the 'UQ' interface journal: DEFINE

Code	Physical name	Type	Label
SYSIN	&INDSN..BVPSY(DFBVPUQ)	Input	Definition of the journal file

Initialization of UQ file: PNINUQ

Code	Physical name	Type	Label
PAC7UQ	&INDSVE..BVPUQ	Output	UQ selected transactions file

Deletion of 'QJ' work file: DELETE

Code	Physical name	Type	Label
SYSIN	&INDSN..BVPSY(DL&BASE.QJ)	Input	QJ Delete

RPND - Execution JCL

```
//*********************************************************************
//* PACBASE-ENDEVOR 3.5   : CREATE 'VA-PAC'-> 'NJ'(RETRIEVAL ELEMENTS)*
//*********************************************************************
//BVPRPND PROC BASE=$BASE,             CODE OF DEVPT DATABASE
//         INDSN='$INDSN',             INDEX SYSTEM NON VSAM FILES
//         INDSV='$INDSV',             INDEX SYSTEM VSAM FILES VA-PAC
//         INDSVE='$INDSVE',           INDEX SYSTEM VSAM FILES ENDEVOR
//         INDUV='$INDUV',             INDEX OF USER  VSAM FILES VA-PAC
//*:       VSAMCAT='$VCAT',            USER VSAM CATALOG
//*:       SYSTCAT='$SCAT',            SYSTEM VSAM CATALOG
//         STEPLIB='$HLQ..SBVPMBR8',   LIBRARY OF LOAD-MODULES
//         SORTLIB='$BIBT',            SORT LIBRARY
//         CYL=1,                      SORT WORKS SIZE
//         OUT='$OUT',                 OUTPUT CLASS
//         UWK=$UWK,                   WORK UNIT
//         SPANJ='(TRK,(10,05),RLSE)', SPACE FILE FOR VA-PAC 'UPDP'
//         SPAUR='(TRK,(02,01),RLSE)'  SPACE TEMPORARY FILE
//*--------------------------------------------------------------------*
//*
//INPUT   EXEC PGM=BVPTU001
//*-----------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//CARTE    DD DDNAME=SYSIN,DCB=BLKSIZE=80
//PAC7MB   DD DSN=&&RPNDMB,DISP=(,PASS),
//            UNIT=&UWK,SPACE=(TRK,(1,1),RLSE),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=80)
//*
//DEFNJ   EXEC PGM=IDCAMS
//*----------------------
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*:        DD DSN=&SYSTCAT,DISP=SHR
//SYSIN    DD DSN=&INDSN..BVPSY(DFBVPNJ),DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//*
//PNINNJ  EXEC PGM=BVPCMIWY
//*-----------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*:        DD DSN=&SYSTCAT,DISP=SHR
//PAC7QJ   DD DSN=&INDSVE..BVPNJ,DISP=SHR
//SYSOUT   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//*
//PNDQ10 EXEC PGM=BVPNDQ10
//*----------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
```

```
//SORTLIB  DD DSN=&SORTLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*:        DD DSN=&SYSTCAT,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//PACGGN   DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGR   DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGU   DD DSN=&INDSV..BVPGU,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//PAC7MB   DD DSN=&&RPNDMB,DISP=(OLD,PASS)
//PAC7UQ   DD DSN=&INDSVE..BVPUQ,DISP=SHR
//PAC7UR   DD DSN=&&PAC7UR,DISP=(NEW,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=183,BLKSIZE=1830),
//            SPACE=&SPAUR
//PAC7DD   DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//PNDQ20  EXEC PGM=BVPNDQ20,COND=(00,NE,PNDQ10)
//*-----------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//ANLSR    DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AN   DD SUBSYS=(BLSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//AYLSR    DD DSN=&INDUV..&BASE.AY,DISP=SHR
//PAC7AY   DD SUBSYS=(BLSR,'DDNAME=AYLSR','BUFND=40')
//PAC7QJ   DD DSN=&INDSVE..BVPNJ,DISP=SHR
//PAC7UR   DD DSN=&&PAC7UR,DISP=(OLD,PASS)
//SYSOUT   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//PCM9AS  EXEC PGM=BVPCM9AS,COND=((00,NE,PNDQ10),(00,NE,PNDQ20))
//*-------------------------------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//ANLSR    DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AN   DD SUBSYS=(BLSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//PAC7MB   DD DSN=&&RPNDMB,DISP=(OLD,PASS)
//PAC7QJ   DD DSN=&INDSVE..BVPNJ,DISP=SHR
//PAC7QK   DD DSN=&&UPDP,DISP=(,PASS),
//            DCB=(RECFM=FB,LRECL=310,BLKSIZE=6200),
//            UNIT=&UWK,SPACE=&SPANJ
//SYSPRINT DD SYSOUT=&OUT
//*
//DEFINUQ EXEC PGM=IDCAMS,COND=((00,NE,PNDQ10),(00,NE,PNDQ20))
//*-------------------------------------------------------------
```

```
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN    DD DSN=&INDSN..BVPSY(DFBVPUQ),DISP=SHR
//*
//PNINUQ  EXEC PGM=BVPNINUQ,COND=((00,NE,PNDQ10),(00,NE,PNDQ20))
//*-------------------------------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//PAC7UQ   DD DSN=&INDSVE..BVPUQ,DISP=SHR
//SYSOUT   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//DELETE  EXEC PGM=IDCAMS,COND=((00,NE,PNDQ10),(00,NE,PNDQ20))
//*-----------------------------------------------------------
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN    DD DSN=&INDSN..BVPSY(DLBVPNJ),DISP=SHR
//*
```

RPTY: Retrieval of the TYPES File 2.5 -> 3.5

RPTY - General Presentation

The 'RPTY' procedure retrieves the types of the VA Pac and INFOPAC Elements stored in V2.5 as a VSAM file named 'TY'. Now, with the V3.5, these types are stored in the Administration Database.

However, in order to prevent the processors from accessing the Administration Database, the 'TY' VSAM file is kept in V3.5 and must be reloaded after a new couple VA Pac type / INFOPAC type has been created in the Admininstration Database (see the 'TYND' procedure).

Execution condition

The 'VINS' procedure must have been previously run to load the 'ENT' Meta-Entity in the Administration Database. The Administration Database must be closed to on-line use.

Result

The VA Pac/Endevor types are loaded in the Adminstration Database.

Note: If other types were to be created, they should be created by the administrator via the workstation. After this update, the 'TYND' procedure would then have to be run.

RPTY - Input / Processing / Results

One administrator identification line.

Pos.	Lon.	Value	Meaning
2	1	'*'	Line code
3	8	uuuuuuuu	User code
11	8	pppppppp	Password

RPTY - Description of Steps

Input recognition: PTU001

Check of 2.5 'TY' TYPES file: VERIFY

Code	Physical name	Type	Label
PAC7TY	&PAC7TY	Input	2.5 TYPES file
SYSIN	&INDSN..BVPSY(VERIFTY)	Input	SYSIN for Verify

Retrieval of 'TY' file in Administration Database: PNRPTY

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	VA Pac error message file
PAC7AN	&INDUV..&BASE.AN	Input	VA Pac index file
PAC7AR	&INDUV..&BASE.AR	Input	VA Pac data file
PACGGN	&INDSV..BVPGN	Input	Administration Database index file
PACGGR	&INDSV..BVPGR	Input	Administration Database data file
PACGGU	&INDSV..BVPGU	Input	Administration Database users file
PAC7TY	&PAC7TY	Input	2.5 TYPES file
PAC7MB	&&RPTYMB	Input	User input file
PAC7GY	&&PAC7GY	Output	Update transactions
PAC7DD		Report	Error report

Check of VSAM files: IDCAMS

Transaction formatting: PAF900

Code	Physical name	Type	Label
PAC7AR	&INDSV..BVPGR	Input	Administration Database data

Code	Physical name	Type	Label
PAC7AN	&INDSV..BVPGN	Input	Administration Database index
PAC7AE	&INDSV..BVPAE	Input	Error messages
PACGGR	&INDSV..BVPGR	Input	Administration Database data
PACGGN	&INDSV..BVPGN	Input	Administration Database index
PACGGU	&INDSV..BVPGU	Input	Administration Database users
PAC7GY	&&PAC7GY	Input	Update transactions
PAC7MV	&&PAC7MV	Output	Formatted transactions (must be able to contain all input transactions as well as elementary deletion transactions generated by multiple deletion transactions) (length = 170)
PAC7ME		Output	Work file (length = 372)
PAC7MW		Output	Work file (length = 170)
PAC7MX		Output	Work file (length = 743)
PAC7MY		Output	Work file (length = 743)

Administration Database update: PACA15

Code	Physical name	Type	Label
PAC7AR	&INDSV..BVPGR	Output	Administration Database data
PAC7AN	&INDSV..BVPGN	Output	Administration Database index
PAC7AY	&INDSV..BVPGY	Output	Administration Database extension
PAC7AJ	&INDSV..BVPGJ	Output	Administration Database journal
PAC7AE	&INDSV..BVPAE	Input	Error messages
PACGGN	&INDSV..BVPGN	Input	Administration Database index
PACGGR	&INDSV..BVPGR	Input	Administration Database data
PACGGY	&INDSV..BVPGY	Input	Administration Database extension
PACGGU	&INDSV..BVPGU	Input	Administration Database users
PAC7DC	DUMMY	Input	DSMS file of Development Database Elements
PAC7ME	&&PAC7ME	Input	Work file
PAC7MV	&&PAC7MV	Input	Update transactions

Code	Physical name	Type	Label
PAC7RB	&&PAC7RB	Output	UPDT erroneous transactions (lengthr=80)
PAC7RY	&&PAC7RB	Output	UPDP erroneous transactions (length=310)
PAC7IE		Report	Update report (length=132)
PAC7IF		Report	summary 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

RPTY - Execution JCL

```
//*************************************************************************
//* PACBASE-ENDEVOR 3.5   : RETRIEVAL 'TY' 2.5' TO ADMIN DATABASE 3.5 *
//*************************************************************************
//BVPRPTY PROC BASE=$BASE,             CODE OF DEVPT DATABASE
//         OUT=$OUT,                   OUTPUT CLASS
//         INDSN='$INDSN',             INDEX SYSTEM NON VSAM FILES VA-P
//         INDSV='$INDSV',             INDEX SYSTEM VSAM FILE VA-PAC
//         INDUV='$INDUV',             INDEX OF  USER  VSAM FILE VA-PAC
//         PAC7TY='????????',          FILE OF TYPES 2.5
//*:       VSAMCAT='$VCAT',            USER VSAM CATALOG
//*:       SYSTCAT='$SCAT',            SYSTEM VSAM CATALOG
//         STEPLIB='$HLQ..SBVPMBR8',   LIBRARY OF LOAD-MODULES
//         DSMS='NULLFILE',            DSN OF PRODUCT ELEMENTS DSMS FIL
//         BCOB='$BCOB',               COBOL MVS ROUTINE LIBRARY
//         UWK=$UWK,                   WORK UNIT
//         SPAMB='(TRK,(05,05),RLSE)', SPACE TEMPORARY FILE
//         SPAGY='(TRK,(05,05),RLSE)'  SPACE P.A.F. FILE GENERATED
//*-------------------------------------------------------------------*
//*
//INPUT   EXEC PGM=BVPTU001
//*-----------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//CARTE    DD DDNAME=SYSIN,DCB=BLKSIZE=80
//PAC7MB   DD DSN=&&RPTYMB,DISP=(,PASS),
//            UNIT=&UWK,SPACE=(TRK,(1,1),RLSE),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=80)
//*
//VERIFY  EXEC PGM=IDCAMS
//*---------------------
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*:        DD DSN=&SYSTCAT,DISP=SHR
```

```
//PAC7TY   DD DSN=&PAC7TY,DISP=SHR
//SYSIN    DD DSN=&INDSN..BVPSY(VERIFTY),DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//*
//PNRPTY  EXEC PGM=BVPNRPTY
//*-----------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*:         DD DSN=&SYSTCAT,DISP=SHR
//GNLSR    DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN   DD SUBSYS=(BLSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR    DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR   DD SUBSYS=(BLSR,'DDNAME=GRLSR','BUFND=10')
//GRLSU    DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU   DD SUBSYS=(BLSR,'DDNAME=GRLSU','BUFND=10')
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//ANLSR    DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AN   DD SUBSYS=(BLSR,'DDNAME=ANLSR','BUFND=40')
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//PAC7TY   DD DSN=&PAC7TY,DISP=SHR
//PAC7MB   DD DSN=&&RPTYMB,DISP=(OLD,PASS)
//PAC7GY   DD DSN=&&PAC7GY,DISP=(NEW,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=310,BLKSIZE=3100),
//            SPACE=&SPAGY
//PAC7DD   DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//VERIFY  EXEC PGM=IDCAMS
//*----------------------
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//*:         DD DSN=&SYSTCAT,DISP=SHR
//PAC7AN   DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AR   DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AJ   DD DSN=&INDUV..&BASE.AJ,DISP=SHR
//PACGGN   DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGR   DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGU   DD DSN=&INDSV..BVPGU,DISP=SHR
//SYSIN    DD DSN=&INDSN..BVPSY(VERIFAN),DISP=SHR
//         DD DSN=&INDSN..BVPSY(VERIFAR),DISP=SHR
//         DD DSN=&INDSN..BVPSY(VERIFAJ),DISP=SHR
//         DD DSN=&INDSN..BVPSY(VERIFGN),DISP=SHR
//         DD DSN=&INDSN..BVPSY(VERIFGR),DISP=SHR
//         DD DSN=&INDSN..BVPSY(VERIFGU),DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//*
//PAF900 EXEC PGM=BVPAF900,REGION=0K
//*--------------------------------
//*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
//*:         DD DSN=&VSAMCAT,DISP=SHR
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//         DD DSN=&BCOB,DISP=SHR
//SYSOUT   DD SYSOUT=&OUT
```

```
//SYSOUX   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//ANLSR    DD DSN=&INDSV..BVPGN,DISP=SHR
//PAC7AN   DD SUBSYS=(BLSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR    DD DSN=&INDSV..BVPGR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//GNLSR    DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN   DD SUBSYS=(BLSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR    DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR   DD SUBSYS=(BLSR,'DDNAME=GRLSR','BUFND=10')
//GULSR    DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU   DD SUBSYS=(BLSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//PAC7GY   DD DSN=&&PAC7GY,DISP=(OLD,PASS)
//PAC7ME   DD DSN=&&PAC7ME,DISP=(,PASS),UNIT=&UWK,
//            SPACE=&SPAMB,
//            DCB=(RECFM=FB,LRECL=372,BLKSIZE=5952)
//PAC7MV   DD DSN=&&PAC7MV,DISP=(,PASS),UNIT=&UWK,
//            SPACE=&SPAMB,
//            DCB=(RECFM=FB,LRECL=170,BLKSIZE=6120)
//PAC7MW   DD DISP=(,DELETE),UNIT=&UWK,
//            SPACE=&SPAMB,
//            DCB=(RECFM=FB,LRECL=170,BLKSIZE=6120)
//PAC7MX   DD DISP=(,DELETE),UNIT=&UWK,
//            SPACE=&SPAMB,
//            DCB=(RECFM=FB,LRECL=748,BLKSIZE=26928)
//PAC7MY   DD DISP=(,DELETE),UNIT=&UWK,
//            SPACE=&SPAMB,
//            DCB=(RECFM=FB,LRECL=748,BLKSIZE=26928)
//*
//PACA15  EXEC PGM=BVPACA15,COND=(0,NE,PAF900)
//*-----------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//         DD DSN=&BCOB,DISP=SHR
//*:STEPCAT DD DSN=&SYSTCAT,DISP=SHR
//*:        DD DSN=&VSAMCAT,DISP=SHR
//SYSOUT   DD SYSOUT=&OUT
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//PAC7AJ   DD DSN=&INDSV..BVPGJ,DISP=SHR
//ANLSR    DD DSN=&INDSV..BVPGN,DISP=SHR
//PAC7AN   DD SUBSYS=(BLSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR    DD DSN=&INDSV..BVPGR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//AYLSR    DD DSN=&INDSV..BVPGY,DISP=SHR
//PAC7AY   DD SUBSYS=(BLSR,'DDNAME=AYLSR','BUFND=40')
//GNLSR    DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGN   DD SUBSYS=(BLSR,'DDNAME=GNLSR','BUFND=10','BUFNI=10')
//GRLSR    DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGR   DD SUBSYS=(BLSR,'DDNAME=GRLSR','BUFND=10')
//GULSR    DD DSN=&INDSV..BVPGU,DISP=SHR
//PACGGU   DD SUBSYS=(BLSR,'DDNAME=GULSR','BUFND=10','BUFNI=10')
//GYLSR    DD DSN=&INDSV..BVPGY,DISP=SHR
//PACGGY   DD SUBSYS=(BLSR,'DDNAME=GYLSR','BUFND=10')
//PAC7DC   DD DSN=&DSMS,DISP=SHR
```

```
//PAC7ME   DD DSN=&&PAC7ME,DISP=(OLD,DELETE)
//PAC7MV   DD DSN=&&PAC7MV,DISP=(OLD,DELETE)
//PAC7RB   DD DSN=&&PAC7RB,DISP=(,PASS),UNIT=&UWK,
//            SPACE=&SPAMB,
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=3440)
//PAC7RY   DD DSN=&&PAC7RY,DISP=(,PASS),UNIT=&UWK,
//            SPACE=&SPAMB,
//            DCB=(RECFM=FB,LRECL=310,BLKSIZE=6200)
//PAC7IE   DD SYSOUT=&OUT
//PAC7IF   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
```

RP25: Retrieval of User Entities. 2.5 -> 3.5

RP25 - General Presentation

The RP25 procedure retrieves, in the 3.5 development database, the User Entities of the ENDEVOR .NDENV and .NDVLM Meta-Entities resulting from the retrieval of the PC file V2.5 to V3.5. These U.E. are transformed into U.E. of the new PCM 3.5 Meta-Entity installed by the 'VINS' procedure.

The ENDEVOR actual context is constituted of four elements: environment / system / sub-system / stage. If a context, indicated in the Description 1 (-d1) of a U.E. of the .NDVLM Meta-Entity, corresponds to a target context indicated in the Definition of a U.E. of the .NDENV Meta-Entity, the retrieval will group these E.U. to create a new U.E.: its identifier is that indicated on the U.E. Definiiton of .NDENV.

Otherwise, the new U.E. is created from the U.E. of .NDVLM and its identifier results from the concatenation of the four elements of the actual ENDEVOR context.

The generated objects stored in the Description 1 of the U.E. of the .NDVLM Meta-Entity are located, according to their entity type, in the following Descriptions of the new U.E.:

- Description 20, if the entity is a batch program,
- Description 21, if the entity is an on-line or a map program,
- Description 22, if the entity is a Database Block,
- Description 23, if the entity is a COPY clause.

The update is performed in the library and session indicated on the Description 9 of the .NDVLM U.E.

Execution condition

This procedure updates the Library network. The access to on-line use must be closed.

Execution errors

If errors occur while the PCM910 update program is being executed, the Database is left in an inconsistent state.

The retrieval is possible only by reloading a backup and integrating the archived transactions dated after this backup (REST procedure).

Reports

The report output by PCM900 lists the errors which cause the procedure to stop. Two reports are output after the update:

- A global report of the update,
- A list of the transactions rejected by the update.

Result

A sequential file, which contains the purge transactions for the reorganization procedure, is generated. After the update, the Database must be reorganized.

Important note

You must allow for the writing of the transactions extracted for the REOR procedure in a catalogued file, taking the following comment line into account:

```
'//*PCM910.PAC7MR  DD DSN=REORFILE'.
```

RP25 - Input / Processing / Results

One administrator identification line and as many lines as environments which may contain one or more Elements from the VA Pac system.

User parameter line

Pos.	Len.	Value	Meaning
2	1	'*'	Line code
3	8	uuuuuuuu	User code
11	8	pppppppp	Password

Environment parameter line

Pos.	Len.	Value	Meaning
11	8	'eeeeeeee'	ENDEVOR environment
19	8	'ssssssss'	ENDEVOR sytem (1)
27	8	'subssubs'	ENDEVOR sub-system (1)

(1): Each field can be entered with a wilcard character. In this case, you must enter a '*' right after the last significant character (ex: 'sys* '). A field left to blank is equivalent to the '*' character.

RP25 - Descriptions of Steps

Input recognition: PTU001

Preparation of Elements 'LIST' SYSIN: PNCI10

This program prepares the extraction of the VA Pac-Type ENDEVOR Elements whose Stage-Num is equal to 1.

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	Error messages
PACGGN	&INDSV..BVPGN	Input	Administration Database index
PACGGR	&INDSV..BVPGR	Input	Administration Database data
PACGGU	&INDSV..BVPGU	Input	Administration Database users
PAC7MB	&&RP25MB	Input	User input. Elements to be extracted
PAC7TY	&PAC7TY	Input	Interface 2.5 TYPES file
PAC7BS	&&PAC7BS	Output	SYSIN of the 'LIST' of the Elements to be selected
PAC7DD		Report	Authorization control

List of the selected Endevor Elements: NDVRC1

Code	Physical name	Type	Label
C1MSGS1	&&C1MSGS1	Output	Printing of Endevor 'LIST' requests
BSTIPT01	&&PAC7BS	Input	Sysin of the 'LIST' of the Elements to be selected

Extraction of the .NDENV Meta-Entity's U.E.: PCM900

Code	Physical name	Type	Label
PAC7AR	&INDUV..&BASE.AR	Input	VA Pac data file
PAC7AN	&INDUV.&BASE.AN	Input	VA Pac index file
PAC7AE	&INDSV..BVPAE	Input	VA Pac error message file
PAC7PM	&&PAC7PM	Output	Definition of the .NDENV Meta-Entity's U.E.
PAC7IG		Report	
SORTWK01 SORTWK02 SORTWK03		Sort	Sort files

Return code: 08 : Error. The procedure stops.

Extraction of contexts ENV/SYS/SSY/STAGE: PCM902

Code	Physical name	Type	Label
PAC7TY	&PAC7TY	Input	Interface 2.5 TYPES table
PAC7MS	$$C1MSGS1	Input	SYSOUT of Endevor list
PAC7PN	&&PAC7PN	Output	Extracted VA Pac / Endevor contexts

Comparison of the .NDENV and .NDVLM User Entities according to their contexts: PCM905

Code	Physical name	Type	Label
PAC7AR	&INDUV..&BASE.AR	Input	VA Pac data file
PAC7AN	&INDUV..&BASE.AN	Input	VA Pac index file
PAC7AE	&INDSV..BVPAE	Input	VA Pac error message file
PAC7PM	&&PAC7PM	Input	Definition of the .NDENV Meta-Entity's U.E.
PAC7PN	&&PAC7PN	Input	Extracted VA Pac / Endevor contexts
PAC7MP	&&PAC7MP	Output	Files of the .NDENV and .NDVLM Meta-Entities' U.E.

Assignment of the context (Env/Sys/Ssy/Stage) as a sort criterion for the records of the PAC7MP file: PCM906

Code	Physical name	Type	Label
PAC7MP	&&PAC7MP	Input	.NDENV and .NDVLM Meta-Entities' U.E.
PAC7EN	&&PAC7EN	Output	Same as PAC7MP with the context
SORTWK01 SORTWK02 SORTWK03		Sort	Sort files

Sort, formatting and update of the PCM 3.5 U.E.: PCM910

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	VA Pac error message file
PAC7AN	&INDUV..&BASE.AN	Input/ Output	VA Pac index file
PAC7AR	&INDUV..&BASE.AR	Input/ Output	VA Pac data file
PAC7AY	&INDUV..&BASE.AY	Input/ Output	VA Pac long data file
PAC7EN	&&PAC7EM	Input	.NDENV and .NDVLM Meta-Entities' U.E.
PAC7MR	&&PAC7MR	Output	Extracted transactions for REOR
PAC7IG		Report	Update report
PAC7IH		Report	Summary of erroneous transactions
SORTWK01 SORTWK02 SORTWK03		Sort	Sort files

RP25 - Execution JCL

```
//*********************************************************************
//* PACBASE-ENDEVOR 3.5   : RETRIEVAL ENV/SYS/SSY/STG OF 2.5->3.5 E.U.*
//*********************************************************************
//BVPRP25 PROC BASE=$BASE,             CODE OF DEVPT DATABASE
//         OUT=$OUT,                   OUTPUT CLASS
//         PAC7TY='????????',          FILE TYPES 2.5
//         STEPLIB='$HLQ..SBVPMBR8',   LIBRARY OF LOAD-ODULES
//         LOADLIB='$LDLIB',           LOADLIB ENDEVOR
//         CONLIB='$CONLIB',           CONLIB  ENDEVOR
//         SORTLIB='$BIBT',            SORT LIBRARY
//         INDSV='$INDSV',             INDEX SYSTEM VSAM FILE VA-PAC
//         INDUV='$INDUV',             INDEX  USER  VSAM FILE VA-PAC
```

```
//         UWK=$UWK,                    WORK UNIT
//         SPABS='(TRK,(05,05),RLSE)', SPACE FOR TEMP. FILES ENDEVOR
//         SPAMR='(TRK,(05,05),RLSE)', SPACE FILE FOR 'REOR'
//         SPAPM='(TRK,(10,05),RLSE)', SPACE TEMPORARY FILE
//         SPAPN='(TRK,(05,05),RLSE)'  SPACE TEMPORARY FILE
//*-------------------------------------------------------------------*
//*
//INPUT   EXEC PGM=BVPTU001
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//CARTE    DD DDNAME=SYSIN,DCB=BLKSIZE=80
//PAC7MB   DD DSN=&&RP25MB,DISP=(,PASS),
//            UNIT=&UWK,SPACE=(TRK,(1,1),RLSE),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=80)
//*
//PNCI10  EXEC PGM=BVPNCI10,PARM='$'
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//PACGGN   DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGR   DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGU   DD DSN=&INDSV..BVPGU,DISP=SHR
//PAC7TY   DD DSN=&PAC7TY,DISP=SHR
//PAC7MB   DD DSN=&&RP25MB,DISP=(OLD,PASS)
//PAC7BS   DD DSN=&&PAC7BS,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
//            SPACE=&SPABS
//PAC7DD   DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//NDVRC1  EXEC PGM=NDVRC1,DYNAMNBR=1500,REGION=0K,
//        PARM='C1BM3000',COND=(00,NE,PNCI10)
//STEPLIB  DD DSN=&LOADLIB,DISP=SHR
//CONLIB   DD DSN=&CONLIB,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK04 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//C1TPDD01 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPDD02 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPLSIN DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//C1TPLSOU DD UNIT=SYSDA,SPACE=(CYL,5)
//C1PLMSGS DD SYSOUT=&OUT
//*1MSGS1  DD SYSOUT=&OUT
//C1MSGS1  DD DSN=&&C1MSGS1,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FBA,LRECL=133,BLKSIZE=26600),
//            SPACE=&SPABS
//C1PRINT  DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,BLKSIZE=6171)
//SYSABEND DD SYSOUT=&OUT
```

```
//SYSOUT   DD SYSOUT=&OUT
//BSTIPT01 DD DSN=&&PAC7BS,DISP=(OLD,PASS)
//*
//PCM900  EXEC PGM=BVPCM900,COND=(00,NE,PNCI10)
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//SORTLIB  DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//ANLSR    DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AN   DD SUBSYS=(BLSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//PAC7PM   DD DSN=&&PAC7PM,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=1080,BLKSIZE=21600),
//            SPACE=&SPAPM
//PAC7IG   DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//PCM902  EXEC PGM=BVPCM902,REGION=0K,
//        COND=((00,NE,PNCI10),(08,LE,PCM900))
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//PAC7TY   DD DSN=&PAC7TY,DISP=SHR
//PAC7MS   DD DSN=&&C1MSGS1,DISP=(OLD,PASS)
//PAC7PN   DD DSN=&&PAC7PN,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=1080,BLKSIZE=21600),
//            SPACE=&SPAPN
//SYSOUT   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSABEND DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//PCM905   EXEC PGM=BVPCM905,COND=((00,NE,PNCI10),(08,LE,PCM900))
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//ANLSR    DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AN   DD SUBSYS=(BLSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//PAC7PM   DD DSN=&&PAC7PM,DISP=(OLD,PASS)
//PAC7PN   DD DSN=&&PAC7PN,DISP=(OLD,PASS)
//PAC7MP   DD DSN=&&PAC7MP,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=1080,BLKSIZE=21600),
//            SPACE=&SPAPM
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//PCM906   EXEC PGM=BVPCM906,COND=((00,NE,PNCI10),(08,LE,PCM900))
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
```

```
//SORTLIB  DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//PAC7MP   DD DSN=&&PAC7MP,DISP=(OLD,PASS)
//PAC7EN   DD DSN=&&PAC7EN,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=1080,BLKSIZE=21600),
//            SPACE=&SPAPM
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//PCM910   EXEC PGM=BVPCM910,COND=((00,NE,PNCI10),(08,LE,PCM900))
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//SORTLIB  DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,(3,1),,CONTIG)
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//ANLSR    DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AN   DD SUBSYS=(BLSR,'DDNAME=ANLSR','BUFND=40','BUFNI=30')
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//AYLSR    DD DSN=&INDUV..&BASE.AY,DISP=SHR
//PAC7AY   DD SUBSYS=(BLSR,'DDNAME=AYLSR','BUFND=40')
//PAC7EN   DD DSN=&&PAC7EN,DISP=(OLD,PASS)
//PAC7MR   DD DSN=&&PAC7MR,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=21600),
//            SPACE=&SPAMR
//PAC7IG   DD SYSOUT=&OUT
//PAC7IH   DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
```

RRND: Retrieval of Existing Data

RRND - General Presentation

The RRND procedure retrieves the ENDEVOR Elements which come from VA Pac and which had been generated before the installation of the VA Pac-Endevor interface on the site. It also associates an INFOPAC Element with each of these Elements.

Execution condition

None.

Result

Generated execution JCL of the RIND procedure (creation of INFOPAC-type Elements).

'UQ' VSAM file which contains the update transactions for VA Pac. This file is retrieved as is by the RPND procedure.

Important node

The execution of the RRND procedure MUST be followed by the execution of the RIND and RPND procedures.

RRND - Input / Processing / Results

USER INPUT

You can enter as many lines as there are environments which can possibly contain one or more Elements coming from the VA Pac system.

Environment parameter line

Pos.	Length	Value	Meaning
01	10	'xxxxxxxxxx'	ENDEVOR Element (1)
11	8	'eeeeeeee'	ENDEVOR Environment
19	8	'ssssssss'	ENDEVOR System (1)
27	8	'subssubs'	ENDEVOR Sub-system (1)
35	8	'tttttttt'	ENDEVOR Type (1)
43	1	's'	ENDEVOR Stage (1)

(1): Each field can be entered in a generic manner using an asterisk immediately after the last significant character (ex: 'env* '). The value ' ' is equivalent to the value '* '.

RRND - Descriptions of Steps

Input recognition: PTU001

Preparation SYSIN of the 'LIST' of Elements: PNCI10

This program prepares the extraction of the COBOL-type Endevor Elements generated by VA Pac and identified by the constants: 'CONSTANTES-PAC' or 'VA Pac-CONSTANT'.

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	Error messages
PACGGN	&INDSV..BVPGN	Input	Administration Database index

Code	Physical name	Type	Label
PACGGR	&INDSV..BVPGR	input	Administration Databae data
PACGGU	&INDSV..BVPGU	Input	Administration Database users
PAC7MB	&&RRNDMB	Input	User input. Elements to be extracted
PAC7TY	&INDSVE..BVPTY	Input	Interface TYPES file
PAC7BS	&PAC7BS	Output	SYSIN of the 'LIST' of the Elements to be selected
PAC7DD		Report	Authorization control

List of the selected Endevor Elemnents: NDVRC1A

Code	Physical name	Type	Label
BSTIPT01	&&PAC7BS	Input	SYSIN of the 'LIST' of the Elements to be selected
C1MSGS1	&&C1MSGS1A	Output	Output

Preparation SYSIN of Elements' PRINT: PNDR20

Code	Physical name	Type	Label
PAC7LT	&&C1MSGS1A	Input	SYSOUT of the Endevor list
PAC7BS	&PAC7SB	Output	SYSIN 'PRINT' of the listed Elements
PAC7BT	&&PAC7TB	Output	SYSIN 'PRINT' of the listed Elements (M. option)
PAC7XT	&&PAC7XT	Output	SYSIN 'PRINT' of the Elements' Descriptions

Print of the selected Endevor Elements: NDVRC1B

Code	Physical name	Type	Label
BSTIPT01	&&PAC7SB	Input	SYSIN of the listed Elements' 'PRINT'
C1MSGS1	&&C1MSGS1B	Output	SYSOUT of the Endevor list
C1PRINT	&&C1PRINTB	Output	SYSOUT of the Endevor print

Print of the selected Endevor Elements: NDVRC1C

With the 'MASTER' option.

Code	Physical name	Type	Label
BSTIPT01	&&PAC7TB	Input	Input file
C1PRINT	&&C1PRINTC	Output	SYSOUT of Endevor PRINT (Master option)

Creation of INFOPAC from the COBOL source: PNDR30

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	VA Pac error messages
PAC7AR	&INDUV..&BASE.AR	Input	VA Pac data
PAC7LT	&&C1MSGS1B	Input	SYSOUT of Endevor list
PAC7PT	&&C1PRINTB	Input	SYSOUT of Endevor Print
PAC7TY	&INDSVE..BVPTY	Input	Interface TYPES file
PAC7XT	&&PAC7XT	Input	SYSIN of the Elements' Descriptions 'PRINT'
PAC7JD	(system allocation)	Input/ Output	Temporary work file
PAC7JC	&&PAC7JC	Output	Execution JCL of the 'RIND' procedure
PAC7UQ	&&PAC7UQ	Output	Sequential image of 'UQ' file

Redefinition of the 'UQ' interface journal: DEFINE

Code	Physical name	Type	Label
SYSIN	&INDSN..BVPSY(DFBVPUQ)	Input	Definition of the journal file

Initialization of UQ file: PNINUQ

Code	Physical name	Type	Label
PAC7UQ	&INDSVE..BVPUQ	Output	UQ selected transactions file

Loading of 'UQ' file for VA Pac update: PNDR35

Code	Physical name	Type	Label
PAC7AE	&INDSV..BVPAE	Input	Error messages
PAC7AR	&INDUV..&BASE.AR	Input	VA Pac data file

Code	Physical name	Type	Label
PAC7PT	&&C1PRINTC	Input	SYSOUT of Endevor 'PRINT' (Master option)
PAC7QU	&&PAC7UQ	Input	Sequential image of 'UQ' file
PAC7UQ	&INDSVE..BVPUQ	Output	'UQ' VSAM file ready for use by the Elements creation procedure in VA Pac

RRND - Execution JCL

```
//*********************************************************************
//* PACBASE-ENDEVOR 3.5   : RETRIEVAL OF ENDEVOR ELEMENTS             *
//*********************************************************************
//BVPRRND PROC BASE=$BASE,              CODE OF DEVPT DATABASE
//         INDSN='$INDSN',              INDEX SYSTEM NON VSAM FILES
//         INDSV='$INDSV',              INDEX SYSTEM VSAM FILES VA-PAC
//         INDSVE='$INDSVE',            INDEX SYSTEM VSAM FILES ENDEVOR
//         INDUV='$INDUV',              INDEX OF  USER  VSAM FILE VA-PAC
//*:       VSAMCAT='$VCAT',             USER VSAM CATALOG
//*:       SYSTCAT='$SCAT',             SYSTEM VSAM CATALOG
//         STEPLIB='$HLQ..SBVPMBR8',    LIBRARY OF LOAD-MODULES
//         LOADLIB='$LDLIB',            LOADLIB ENDEVOR
//         CONLIB='$CONLIB',            CONLIB ENDEVOR
//         OUT='$OUT',                  OUTPUT CLASS
//         UWK=$UWK,                    WORK UNIT
//         PREFIXP=' BVP',              PREFIX OF PROCEDURE NAMES
//         SPAMB='(TRK,(02,01),RLSE)', SPACE TRANSACTIONS FOR 'BSTIPT01
//         SPAMS='(TRK,(05,05),RLSE)', SPACE 'C1MSGS1 & C1PRINT' NDVRC1
//         SPAUR='(TRK,(02,01),RLSE)', SPACE TEMPORARY FILE
//         SPAJC='(TRK,(05,01),RLSE)'  SPACE GENERATED JCL
//*--------------------------------------------------------------------*
//*
//INPUT   EXEC PGM=BVPTU001
//*------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//CARTE    DD DDNAME=SYSIN,DCB=BLKSIZE=80
//PAC7MB   DD DSN=&&RRNDMB,DISP=(,PASS),
//            UNIT=&UWK,SPACE=(TRK,(1,1),RLSE),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=80)
//*
//PNCI10  EXEC PGM=BVPNCI10,
//        PARM='*(''CONSTANTES-PAC'' OR ''PACBASE-CONSTANT'')'
//*-----------------------------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//PACGGN   DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGR   DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGU   DD DSN=&INDSV..BVPGU,DISP=SHR
//PAC7TY   DD DSN=&INDSVE..BVPTY,DISP=SHR
//PAC7MB   DD DSN=&&RRNDMB,DISP=(OLD,PASS)
//PAC7BS   DD DSN=&&PAC7BS,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
```

```
//            SPACE=&SPAMB
//PAC7DD   DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//NDVRC1A EXEC PGM=NDVRC1,DYNAMNBR=1500,REGION=0K,
//        PARM='C1BM3000',COND=(00,NE,PNCI10)
//*---------------------------------------------
//STEPLIB  DD DSN=&LOADLIB,DISP=SHR
//CONLIB   DD DSN=&CONLIB,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK04 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//C1TPDD01 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPDD02 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPLSIN DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//C1TPLSOU DD UNIT=SYSDA,SPACE=(CYL,5)
//C1PLMSGS DD SYSOUT=&OUT
//*1MSGS1  DD SYSOUT=&OUT
//C1MSGS1  DD DSN=&&C1MSGS1A,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FBA,LRECL=133,BLKSIZE=26600),
//            SPACE=&SPAMS
//C1PRINT  DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,BLKSIZE=6171)
//SYSABEND DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//BSTIPT01 DD DSN=&&PAC7BS,DISP=(OLD,PASS)
//*
//PNDR20  EXEC PGM=BVPNDR20,COND=(00,NE,PNCI10)
//*-----------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//PAC7LT   DD DSN=*.NDVRC1A.C1MSGS1,DISP=(OLD,PASS)
//PAC7BS   DD DSN=&&PAC7SB,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
//            SPACE=&SPAMB
//PAC7BT   DD DSN=&&PAC7TB,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6080),
//            SPACE=&SPAMB
//PAC7XT   DD DSN=&&PAC7XT,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=43,BLKSIZE=4300),
//            SPACE=&SPAMB
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//NDVRC1B EXEC PGM=NDVRC1,DYNAMNBR=1500,REGION=0K,
//        PARM='C1BM3000',COND=(00,NE,PNCI10)
//*---------------------------------------------
```

```
//STEPLIB  DD DSN=&LOADLIB,DISP=SHR
//CONLIB   DD DSN=&CONLIB,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK04 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//C1TPDD01 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPDD02 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPLSIN DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//C1TPLSOU DD UNIT=SYSDA,SPACE=(CYL,5)
//C1PLMSGS DD SYSOUT=&OUT
//*1MSGS1  DD SYSOUT=&OUT
//C1MSGS1  DD DSN=&&C1MSGS1B,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FBA,LRECL=133,BLKSIZE=26600),
//            SPACE=&SPAMS
//*1PRINT  DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,BLKSIZE=6171)
//C1PRINT  DD DSN=&&C1PRINTB,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FBA,LRECL=133,BLKSIZE=26600),
//            SPACE=&SPAMS
//SYSABEND DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//BSTIPT01 DD DSN=&&PAC7SB,DISP=(OLD,PASS)
//*
//NDVRC1C EXEC PGM=NDVRC1,DYNAMNBR=1500,REGION=0K,
//        PARM='C1BM3000',COND=(00,NE,PNCI10)
//*--------------------------------------
//STEPLIB  DD DSN=&LOADLIB,DISP=SHR
//CONLIB   DD DSN=&CONLIB,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK04 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//C1TPDD01 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPDD02 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPLSIN DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//C1TPLSOU DD UNIT=SYSDA,SPACE=(CYL,5)
//C1PLMSGS DD SYSOUT=&OUT
//C1MSGS1  DD SYSOUT=&OUT
//*1PRINT  DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,BLKSIZE=6171)
//C1PRINT  DD DSN=&&C1PRINTC,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FBA,LRECL=133,BLKSIZE=26600),
//            SPACE=&SPAMS
//SYSABEND DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//BSTIPT01 DD DSN=&&PAC7TB,DISP=(OLD,PASS)
```

```
//*
//PNDR30  EXEC PGM=BVPNDR30,PARM='&PREFIXP',COND=(00,NE,PNCI10)
//*-------------------------------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//PAC7TY   DD DSN=&INDSVE..BVPTY,DISP=SHR
//PAC7LT   DD DSN=*.NDVRC1B.C1MSGS1,DISP=(OLD,PASS)
//PAC7PT   DD DSN=*.NDVRC1B.C1PRINT,DISP=(OLD,PASS)
//PAC7XT   DD DSN=&&PAC7XT,DISP=(OLD,PASS)
//PAC7JC   DD DSN=&&PAC7JC,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=24000),
//            SPACE=&SPAJC
//PAC7UQ   DD DSN=&&PAC7UQ,DISP=(,PASS),UNIT=&UWK,
//            DCB=(RECFM=FB,LRECL=170,BLKSIZE=17000),
//            SPACE=&SPAUR
//PAC7JD   DD UNIT=&UWK,SPACE=&SPAUR,DCB=BLKSIZE=24000
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
//DEFINUQ EXEC PGM=IDCAMS,COND=((00,NE,PNCI10),(0,NE,PNDR30))
//*-------------------------------------------------------------
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSIN    DD DSN=&INDSN..BVPSY(DFBVPUQ),DISP=SHR
//*
//PNINUQ  EXEC PGM=BVPNINUQ,COND=((00,NE,PNCI10),(0,NE,PNDR30))
//*-------------------------------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//PAC7UQ   DD DSN=&INDSVE..BVPUQ,DISP=SHR
//SYSOUT   DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//*
//PNDR35  EXEC PGM=BVPNDR35,COND=((00,NE,PNCI10),(0,NE,PNDR30))
//*-------------------------------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//*:STEPCAT  DD DSN=&VSAMCAT,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//ARLSR    DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AR   DD SUBSYS=(BLSR,'DDNAME=ARLSR','BUFND=40')
//PAC7UQ   DD DSN=&INDSVE..BVPUQ,DISP=SHR
//PAC7PT   DD DSN=*.NDVRC1C.C1PRINT,DISP=(OLD,PASS)
//PAC7QU   DD DSN=&&PAC7UQ,DISP=(OLD,PASS)
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
```

TYND: Loading the 'TY' TYPES VSAM File

TYND - General Presentation

The 'TYND' procedure updates the VSAM file containing the TYPES of the Elements managed by the interface, from the information entered in the Administration Database. (See the 'ENT' Meta-Entity, whose call type is 'EN')

This VSAM file is then used by the processors and Exits, which prevents access to the Administration Database.

Execution condition

None. However, this procedure should be executed each time the data (couple VA Pac Type / INFOPAC Type) of the Administration Database has been modified in order to prevent any discrepancies with the 'TY' VSAM file.

This procedure must be executed after the 'RPTY' retrieval.

TYND - Input / Processing / Results

One administrator identification line:

Pos.	Len.	Value	Meaning
2	1	'*'	Line code
3	8	uuuuuuuu	User code
11	8	pppppppp	Password

Printed output

Printing of the list of extracted TYPEs.

TYND - Description of Steps

Input recognition: PTU001

Definition of the TYPES VSAM file: DEFINE

Code	Physical name	Type	Label
SYSIN	&INDSN..BVPSY(DFBVPTY)	Input	Definition of the TYPES file

Update of the TYPES VSAM file from the Administration Database: PNDU40

Code	Physical name	Type	Label
PAC7AN	&INDUV..&BASE.AN	Input	VA Pac index file
PAC7AE	&INDSV..BVPAE	Input	VA Pac error message file

Code	Physical name	Type	Label
PAC7AR	&INDUV..&BASE.AR	Input	VA Pac data file
PACGGN	&INDSV..BVPGN	Input	Administration Database index files
PACGGR	&INDSV..BVPGR	Input	Administration Database data files
PACGGU	&INDSV..BVPGU	Input	Administration Database user files
PAC7MB	&&TYNDMB	Input	User transactions
PAC7TY	&INDSVE..BVPTY	Output	Endevor TYPES file
PAC7DD		Report	Authorization control
PAC7ET		Report	Update report
SORTWK01 SORTWK02 SORTWK03		Sort	Sort files

TYND - Execution JCL

```
//*********************************************************************
//* PACBASE-ENDEVOR 3.5   : LOADING VSAM ENDEVOR FILE TYPE 'TY'       *
//*********************************************************************
//BVPTYND PROC BASE=$BASE,            CODE OF DEVPT DATABASE
//         INDSN='$INDSN',            INDEX SYSTEM NON VSAM FILES
//         INDSV='$INDSV',            INDEX SYSTEM VSAM FILES VA-PAC
//         INDSVE='$INDSVE',          INDEX SYSTEM VSAM FILES ENDEVOR
//         INDUV='$INDUV',            INDEX OF USER VSAM FILES VA-PAC
//*:       VSAMCAT='$VCAT',           USER VSAM CATALOG
//*:       SYSTCAT='$SCAT',           SYSTEM VSAM CATALOG
//         STEPLIB='$HLQ..SBVPMBR8',  LIBRARY OF LOAD-MODULES
//         SORTLIB='$BIBT',           SORT LIBRARY
//         UWK=$UWK,                  WORK UNIT
//         CYL=1,                     SORT WORKS SIZE
//         OUT='$OUT'                 OUTPUT CLASS
//*-------------------------------------------------------------
//*
//INPUT   EXEC PGM=BVPTU001
//*------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//CARTE    DD DDNAME=SYSIN,DCB=BLKSIZE=80
//PAC7MB   DD DSN=&&TYNDMB,DISP=(,PASS),
//            UNIT=&UWK,SPACE=(TRK,(1,1),RLSE),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=80)
//*
//DEFINE  EXEC PGM=IDCAMS
//*----------------------
//*:STEPCAT DD DSN=&VSAMCAT,DISP=SHR
//SYSIN    DD DSN=&INDSN..BVPSY(DFBVPTY),DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//*
//PNDU40  EXEC PGM=BVPNDU40
//*------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
```

```
//SORTLIB  DD DSN=&SORTLIB,DISP=SHR
//SORTWK01 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK02 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//SORTWK03 DD UNIT=&UWK,SPACE=(CYL,&CYL,,CONTIG)
//PAC7AN   DD DSN=&INDUV..&BASE.AN,DISP=SHR
//PAC7AR   DD DSN=&INDUV..&BASE.AR,DISP=SHR
//PAC7AE   DD DSN=&INDSV..BVPAE,DISP=SHR
//PACGGN   DD DSN=&INDSV..BVPGN,DISP=SHR
//PACGGR   DD DSN=&INDSV..BVPGR,DISP=SHR
//PACGGU   DD DSN=&INDSV..BVPGU,DISP=SHR
//PAC7TY   DD DSN=&INDSVE..BVPTY,DISP=SHR
//PAC7MB   DD DSN=&&TYNDMB,DISP=(OLD,DELETE)
//PAC7DD   DD SYSOUT=&OUT
//PAC7ET   DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//SYSOUX   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//*
```

UPND: Importing VA Pac Elements to ENDEVOR

UPND - General Presentation

The UPND procedure imports the generated VA Pac and INFOPAC ELEMENTs to Endevor.

Execution condition

This procedure must be defined in the control cards in front/back which will be recognized upon the generation (GPRT) of the Elements to be imported to Endevor.

UPND - Description of Steps

Recognition of INFOPAC content: STEP01 (IEBGENER)

and creation of a temporary file which may receive the generated DELETE SCL

Code	Physical name	Type	Label
SYSUT1	(line overridden by control card in front/back)	Input	Content of INFOPAC Element
SYSUT2	&&INFOPAC	Output	
SCLDEL	&&SCLDEL (empty when created)	Output	Temporary file 'DELETE' SCL

Import of VA Pac Element to Endevor: STEP02 (NDVRC1)

Code	Physical name	Type	Label
BSTIPT01	(line overridden by control card in front/back)	Entrée	Endevor 'ADD' request for VA Pac Element
PAC7TY	&INDSVE..BVPTY	Input	Interface TYPES file
PAC7PU	&INDSVE..BVPUP	Input/Output	Interface work file
PAC7UP	&INDSVE..BVPUP	Input/Output	Interface work file
PAC7UQ	&INDSVE..BVPUQ	Input/Output	Interface journal file

Building of the VA Pac Element DELETE SCL: STEP03 (PNDV20)

This step is executed only if the return code of the previous step is greater than 11.

Code	Physical name	Type	Label
SYSUT1	Temporary user file	Input	SCL generated by the 'UPND' procedure
SYSUT2	&&SCLDEL (DISP=MOD)	Input	VA Pac DELETE SCL

Import of INFOPAC Elements to Endevor : STEP02 (NDVRC1)

Code	Physical name	Type	Label
BSTIPT01	(line overridden by command Before/After)	Input	Endevor 'ADD' request for VA Pac Element
PAC7TY	&INDSVE..BVPTY	Input	Interface TYPES file
PAC7PU	&INDSVE..BVPUP	Input/Output	Interface work file
PAC7UP	&INDSVE..BVPUP	Input/Output	Interface work file
PAC7UQ	&INDSVE..BVPUQ	Input/Output	Interface journal file

Building of VA Pac/INFOPAC Elements DELETE SCL: STEP05

This step is executed only if the return codes of the two 'NDVRC1' steps are greater than 11.

Code	Physical name	Type	Lebal
SYSUT1	Temporary user file	Input	SCL generated by the 'UPND' procedure

Code	Physical name	Type	Lebal
SYSUT2	&&SCLDEL (DISP=MOD)	Input	VA Pac and INFOPAC DELETE SCL

Note:

Before the end of this job, you can perform an IEBGENER to retrieve, in a standard file, the content of the DSN=&&SCLDEL temporary file which contains the SCL, if it exists, of the generated DELETEs.

This SCL can be executed with the Endevor 'BATCH' option.

In all cases, the generated SCL (if any) indicates that there was a problem when the 'UPND' procedure executed the 'ADD' and that the VA Pac-Endevor system is inconsistent. So you are STRONGLY advised to execute this genrated SCL.

UPND - Execution JCL

```
//*********************************************************************
//* PACBASE-ENDEVOR 3.5   : ENDEVOR UPDATE                            *
//*********************************************************************
//BVPUPND PROC OUT='$OUT',            OUTPUT CLASS
//         INDSVE='$INDSVE',          INDEX SYSTEM VSAM FILES ENDEVOR
//*:       VSAMCAT='$VCAT',           USER VSAM CATALOG
//*:       SYSTCAT='$SCAT',           SYSTEM VSAM CATALOG
//         STEPLIB='$HLQ..SBVPMBR8',  LIBRARY OF LOAD-MODULES
//         LOADLIB='$LDLIB',          LOADLIB ENDEVOR
//         CONLIB='$CONLIB'           CONLIB ENDEVOR
//*--------------------------------------------------------------------*
//*
//STEP01  EXEC PGM=IEBGENER
//*------------------------
//SYSUT1   DD DUMMY
//SYSUT2   DD DSN=&&INFOPAC,UNIT=SYSDA,DISP=(NEW,PASS),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=80),
//            SPACE=(TRK,(1,1),RLSE)
//SCLDEL   DD DSN=&&SCLDEL,UNIT=SYSDA,DISP=(NEW,PASS),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=80),
//            SPACE=(TRK,(1,1),RLSE)
//SYSIN    DD DUMMY
//SYSPRINT DD SYSOUT=&OUT
//*
//*******************************************
//* ENDEVOR 'ADD' ACTION FOR 'PACBASE' ELEMENT *
//*******************************************
//*
//STEP02  EXEC PGM=NDVRC1,DYNAMNBR=1500,REGION=0K,PARM='C1BM3000'
//*-------------------------------------------------------------
//STEPLIB  DD DSN=&LOADLIB,DISP=SHR
//CONLIB   DD DSN=&CONLIB,DISP=SHR
```

```
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK04 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//C1TPDD01 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPDD02 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPLSIN DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//C1TPLSOU DD UNIT=SYSDA,SPACE=(CYL,5)
//PAC7TY   DD DSN=&INDSVE..BVPTY,DISP=SHR
//PAC7PU   DD DSN=&INDSVE..BVPUP,DISP=SHR
//PAC7UP   DD DSN=&INDSVE..BVPUP,DISP=SHR
//PAC7UQ   DD DSN=&INDSVE..BVPUQ,DISP=SHR
//PTRACE   DD SYSOUT=&OUT
//C1PLMSGS DD SYSOUT=&OUT
//C1MSGS1  DD SYSOUT=&OUT
//C1PRINT  DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,BLKSIZE=6171)
//SYSABEND DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//BSTIPT01 DD DUMMY
//*
//*********************************************
//*   BUILD 'DELETE' SCL PACBASE ELEMENT       *
//*              IF 'ADD' ERROR                *
//*********************************************
//*
//STEP03  EXEC PGM=BVPNDV20,COND=(11,GE,STEP02)
//*--------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//         DD DSN=$BCOB,DISP=SHR
//SYSUT1   DD DUMMY
//SYSUT2   DD DSN=*.STEP01.SCLDEL,DISP=(MOD,PASS)
//SYSOUT   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//*
//*********************************************
//* ENDEVOR 'ADD' ACTION FOR 'INFOPAC' ELEMENT *
//*********************************************
//*
//STEP04  EXEC PGM=NDVRC1,DYNAMNBR=1500,REGION=0K,PARM='C1BM3000',
//        COND=(11,LT,STEP02)
//*-------------------------------------------------------------
//STEPLIB  DD DSN=&LOADLIB,DISP=SHR
//CONLIB   DD DSN=&CONLIB,DISP=SHR
//SYSPRINT DD SYSOUT=&OUT
//SYSUDUMP DD SYSOUT=&OUT
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//SORTWK04 DD UNIT=SYSDA,SPACE=(CYL,(2,1))
//C1TPDD01 DD UNIT=SYSDA,SPACE=(CYL,5),
```

```
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPDD02 DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=VB,LRECL=260,BLKSIZE=6160)
//C1TPLSIN DD UNIT=SYSDA,SPACE=(CYL,5),
//            DCB=(RECFM=FB,LRECL=80,BLKSIZE=6160)
//C1TPLSOU DD UNIT=SYSDA,SPACE=(CYL,5)
//PAC7TY   DD DSN=&INDSVE..BVPTY,DISP=SHR
//PAC7PU   DD DSN=&INDSVE..BVPUP,DISP=SHR
//PAC7UP   DD DSN=&INDSVE..BVPUP,DISP=SHR
//PAC7UQ   DD DSN=&INDSVE..BVPUQ,DISP=SHR
//PTRACE   DD SYSOUT=&OUT
//C1PLMSGS DD SYSOUT=&OUT
//C1MSGS1  DD SYSOUT=&OUT
//C1PRINT  DD SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,BLKSIZE=6171)
//SYSABEND DD SYSOUT=&OUT
//SYSOUT   DD SYSOUT=&OUT
//INFOPAC  DD DSN=*.STEP01.SYSUT2,DISP=(OLD,DELETE)
//BSTIPT01 DD DUMMY
//*
//*********************************************
//*    BUILD 'DELETE' SCL FOR 'PACBASE' AND    *
//* 'INFOPAC' ELEMENTS IF ERROR(S) IN STEP03   *
//*********************************************
//*
//ISTEP05 IF (STEP02.RC < 12 AND STEP04.RC > 11) THEN
//STEP05  EXEC PGM=BVPNDV20
//*-----------------------------------------------
//STEPLIB  DD DSN=&STEPLIB,DISP=SHR
//         DD DSN=$BCOB,DISP=SHR
//SYSUT1   DD DUMMY
//SYSUT2   DD DSN=*.STEP01.SCLDEL,DISP=(MOD,PASS)
//SYSOUT   DD SYSOUT=&OUT
//SYSPRINT DD SYSOUT=&OUT
//ESTEP05 ENDIF
//*
```

Chapter 9. VA Pac / ENDEVOR Components

General Presentation

The VA Pac-ENDEVOR interface manages permanent data in on-line (TSO FOREGROUND) or in batch mode.

Two types of resources are then necessary:

- Libraries to store the programs which make up the system and the parameters required for its operations:
  - A load module library
  - A parameter library
- Permanent files to materialize the data manipulated by the programs previously defined. These files are divided into two categories:
  - 'System' files which are not modified by the use of VA Pac-ENDEVOR,
  - 'Evolving' files which are manipulated by the user. Their size varies depending on the updates that are performed.

DSNames Allocation

DSNAMEs are allocated according to the following rules:

- The first index level(s) are represented by the &INDSVE and &INDUVE symbolic parameters in case of a VSAM file, or by &INDSNE and &INDUNE in case of a non-VSAM file. The same value can be assigned to these four parameters.
- The last index level is the file name. This name depends on the nature of the file:
  - BVPxx for 'system' files,
  - &BASE.xx for 'evolving' files, with &BASE as a four-character symbolic parameter which identifies VA Pac-ENDEVOR Database.

Catalogs are called by two parameters:

- &SYSTCAT which represents the catalog of the VSAM files belonging to the VA Pac-ENDEVOR system,
- &VSAMCAT which represents the catalog of the VSAM files belonging to a VA Pac-ENDEVOR database.

The same value can be assigned to these two parameters.

Load-Modules Library

Load-modules are located in the &HLQ..SVPMBR8 VA Pac Batch library.

The following programs are added:

CODE	PROC	COMMENTS
C1UEXT02	(1)	EXIT 2
C1UEXT03	(1)	EXIT 3
BVPCMIWY	JRND	Retrieval of archived journal transactions
-	MEND	Formatting of VA Pac update transactions in 'NJ'
-	RPND	Creation of the VA Pac Element (retrieval)
BVPCM900	RP25	Retriev. Env/Sys/Ssy/Stg of 2.5->3.5 EU
BVPCM902	-	
BVPCM905	-	
BVPCM906	-	
BVPCM910	-	
BVPNCI10	CEND	Intra-Endevor integrity control
-	RP25	
-	RRND	Retrieval of existing data
BVPNCI20	CEND	
BVPNDC50	CIND	Inter-Environment integrity control
BVPNDC60	-	
BVPNDC70	-	
BVPNDJ10	JRND	
BVPNDQ10	-	
-	MEND	
-	RPND	
BVPNDQ20	JRND	
-	RPND	
BVPNDQ21	MEND	
BVPNDQ50	-	
BVPNDQ60	-	
BVPNDR20	RRND	
BVPNDR30	-	
BVPNDR35	-	

CODE	PROC	COMMENTS
BVPNDU40	TYND	Loading of 'TY' TYPES VSAM file
BVPNDV20	UPND	Import of VA Pac Elements to Endevor
BVPNINUQ	JRND	
-	RPND	
-	RRND	
BVPNPR10	(2)	CONWIN + BSTIPT01 for 'INFOPAC' types
BVPNPR11	(2)	Copy of seq. updt. trans. to VSAM file
BVPNRJ10	JJND	Retrieval of archived journal V2.5 -> V3.5
BVPNRPTY	RPTY	Retrieval of 'TY' 2.5 to Admin. DBase 3.5
BVPNTRAN	(2)	Processing of INFO for TRANSFER
BVPCM9AS	JRND	Addition of Assign line in NJ
-	RPND	
BVPTU001	toutes	Recognition of user input

(1) : These programs (EXITS) are not called by any procedure but are used in ENDEVOR. (cf. ″ENDEVOR/MVS : Exits″ in the Computer Associates documentation).

(2) : These programs are called by processors:

- 'GENERATE - VA Pac and Infopac',
- 'DELETE - VA Pac',
- 'MOVE - VA Pac'.

Parameters Library

It is the SY parameters library of the VA Pac Database: &INDSN..BVPSY.

It contains the input of the various utilities used when the VA Pac-ENDEVOR system is operating.

It contains:

- The DEFINEs of VSAM files:

The DFxxxxxx name (with xxxxxx: suffix of the specific file) identifies the DELETE / DEFINE of each VSAM file used in VA Pac-ENDEVOR.

Data concerning the catalog used, disks, space, etc. is initialized according to the initial parameters defined upon installation and can be modified later - if necessary - by the VA Pac-ENDEVOR system administrator.

- Usual VSAM manipulations:

The VERIFYxx and REPROxx names identify the VERIFY and REPRO commands applied to VA Pac-ENDEVOR files.

- The BLDG of 'QU' generation file

The BLxxyyQU name identifies the building command of the 'QU' backup index of 'UQ' VA Pac update file.

- The files to be added to the TSO LOGON

The 'ISPLOGON' name identifies the VSAM files used by the VA Pac-ENDEVOR system. These files must be defined in the user LOGON of the TSO procedure.

- The allocation of the EXITS TRACE file to be added to the connection procedure to ISPF.

The 'ISPF' name identifies the allocation command of the EXITs TRACE file which must be defined in the user's ISPF connection procedure.

- TSO messages of the VA Pac-ENDEVOR system

The 'CIUU$msgsx' name (see the meaning of the '$MSGSX' parameter in the table of parameters) represents the TSO messages of the VA Pac-ENDEVOR system. These messages must be copied to the ENDEVOR 'ISPMLIB' library.

- The processors used by the system
  - 'PRCSGENI': JCL lines of the 'GENERATE' type processor for INFOPAC type elements.
  - 'PRCSGEPP': JCL lines of the 'GENERATE' type processor for VA Pac ELEMENT types (only non-compilable entities).
  - 'PRCSGENP': JCL lines of the 'GENERATE' type processor for VA Pac ELEMENT types (only compilable entities).
  - 'PRCSDELP': JCL lines of the 'DELETE' type processor for VA Pac ELEMENT types.
  - 'PRCSMOVP': JCl lines of the 'MOVE' type processor for VA Pac ELEMENT types.

  Note: The implementation of these processors is explained in Chapter 'Description of the Interface Elements'.

  Note: Any modification of the files' characteristics must be performed in this parameter library.

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