



PREDICT APPLICATION CONTROL

Predict Application Control

Administration

Version 2.3.2

 **SOFTWARE AG**



This document applies to Predict Application Control Version 2.3.2 and to all subsequent releases. Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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PAC Administration

Predict Application Control (product code: PAC) is a tool for controlling applications throughout the software life-cycle and for ensuring the integrity of applications in the production environment.

The PAC Administration documentation is intended for PAC administrators. It describes the PAC administrator functions, how to access them, security considerations, the file adjust function.

- Introduction
- Archive Event Maintenance
- General Defaults Maintenance
- Foreign Object Maintenance
- Locked Data Maintenance
- Object Version Maintenance
- Request Table Maintenance
- User Profile Maintenance
- View Security Maintenance

Introduction

This chapter covers the following topics:

- PAC Security Considerations
 - File Adjust Function (PACADJST)
 - Access the PAC Administrator Functions
-

PAC Security Considerations

PAC provides both online and batch security.

- Online Security
- Batch Security

Online Security

The following rules apply to PAC online security:

- The startup transaction is MENU; no profile is needed if you are using Natural Security, otherwise a profile must be defined. "Steplib" must be set to SYSTEM.
- Users who submit Predict events must be linked to SYSDICBE.
- Users who may authorize migration events are assigned when the migration path is defined by PAC. These users may or may not be a PAC administrator.

With Natural Security

- PAC user profiles can only be maintained using PAC administrator functions.
- Under Natural Security, the protection of library SYSPAC determines the user's (or group's) ability to access PAC.
- Under Natural Security, the protection of library SYSPACA determines the user's (or group's) ability to perform PAC administrator functions.
- If running Natural Version 2.3 with Natural Security, you may define library SYSPACUS as a steplib of library SYSPAC (in addition to SYSTEM). For details, see the PAC/PAA Installation documentation.

Without Natural Security

- Define steblibs
If Natural Security is not installed, the standard steplib setting and any additional site-specific steplib setting must be applied as well, using the Natural LOGON user exit.
- Modify LOGON
A sample of LOGON source is provided in library SYSPACUS.
- Move LOGON000 into the FNAT system library.

Batch Security

To accommodate environments that do not allow the same user ID to be used simultaneously for both online and batch, the PAC administrator must specify a batch user ID for each online user.

Depending on the installation standards, each user can be allocated a unique batch ID, or several users may use a single batch ID.

If a user's batch user ID is different from the online user ID, then the batch user ID also must be defined to PAC and must have the same PAC access authority as the online user ID. The batch user ID should then be included in the user's online user profile.

AUTO=ON Option

The batch jobs that carry out migration requests may use the Natural Security parameter AUTO=ON so that passwords need not be passed explicitly to Natural Security. When AUTO=ON is set, the job name on the first card of the JCL must be a valid user ID defined to Natural Security.

Alternatively, AUTO=OFF may be used if the migration jobs are modified.

Notes:

1. For Predict migrations, an additional window is displayed requesting this information at job submission time.
2. If AUTO=OFF is used for a Predict migration, then appropriate user ID and password information must be specified. This is required for Predict events because multiple logons are generated for Predict events that cannot be specified in the JCL.
3. AUTO=ON functions the same way for Predict migrations as it does for other migrations.

File Adjust Function (PACADJST)

The PAC file adjust function allows the PAC administrator to reset/adjust an internal record on the PAC system files (ACF system file and PCF system file) after PAC is installed and initialized. This ensures the integrity of the PAC system.

After renumbering the ACF and/or PCF system files using the Adabas ADADBS utility or Adabas Basic Services, and modifying the NTFILE definitions in your Natural nuclei to reflect the new physical file numbers of the changed ACF and/or PCF system files, use the following procedure:

1. Log on to the library SYSPAC using the updated Natural nucleus.

Note:

The LFILE dynamic parameter may be used temporarily.

2. At the NEXT prompt, enter the command PACADJST to invoke the File Adjust Function.

When a new ACF or PCF system file is specified, PAC verifies each file individually. If the values are not correct, an appropriate message is displayed and processing is terminated. If the values are correct, the results are displayed in a report shown in the following example:

```
The PAC Control Status has been adjusted

Application Control File  has been adjusted
Predict Control File     has been adjusted

Adjustment of Metadata follows .....

Selecting Archive Status ARCHIVE
```

```

Adjusting Application-Status Link for Application ... ADJ-APPL
Selecting Control Status CONTROL
Adjusting Application-Status Link for Application ... ADJ-APPL
Adjusting Application-Status Link for Application ... COMMON
Adjusting Application-Status Link for Application ... ORD-EXAM
Adjusting Application-Status Link for Application ... PREDICT
Adjusting Application-Status Link for Application ... ADJUST
Adjusting Application-Status Link for Application ... ADJ-APPL
Adjusting Application-Status Link for Application ... ORD-EXAM ***
    *** Processing has now successfully completed ***
    
```

The report displays the results of the PAC verification as follows:

- If all renumbered files are consistent with the installation files, the appropriate message is displayed for each PAC file, for example: "... File has been adjusted".
- Adjustment of metadata: When the file renumbering is completed, PAC automatically updates application status links with the new file numbers of the ACF and PCF system files.
- When the adjust function is completed, the message "Processing has now successfully completed" is displayed.

Access the PAC Administrator Functions

Access the PAC administrator functions from the NEXT prompt on the Natural system library screen by entering

- SYSPAC; then ADMIN; or
- SYSPACA; then MENU.

Note:

For Natural Security reasons, the menU program in SYSPACA logs you on to SYSPAC, checks whether you are allowed to use SYSPACA, and then executes ADMIN.

The Administrator Functions menu is displayed providing the following functions to the authorized PAC administrator:

```

16:54:55          ***** PREDICT APPLICATION CONTROL *****          2000-04-20
User SAGU          - Administrator Functions -

                Code  Function
                ----  -
                E    Archive Event Maintenance
                G    General Defaults
                L    Locked Data Maintenance
                N    Foreign Maintenance
                O    Object Version Maintenance
                T    Request Table Maintenance
                U    User Profile Maintenance
                V    View Security Maintenance
                ?    Help
                .    Exit
                ----  -

                Code ... _

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
                Help  Menu  Exit                                          Canc
    
```

Code	Function	Description
E	Archive Event Maintenance	Display, finalize, modify and purge archiving events.
G	General Defaults	<ul style="list-style-type: none"> - Modify application defaults. - Maintain defaults for extended description skeletons of: application, migration events, JCL text for a job and maintenance requests. - Maintain sets of Predict generation defaults. - Maintain the default setting of applymods. - Maintain the migration paths' default. - Maintain the values of control, system and user profile defaults. - Set user exit defaults.
L	Locked Data Maintenance	Display, release and select data that has been locked.
N	Foreign Maintenance	Display the table for defining the foreign objects that are supported by your PAC installation.
O	Object Version Maintenance	Change control logs; deactivate object versions; purge object version audit history.
T	Request Table Maintenance	Maintain the status and action tables used when maintenance requests are defined to PAC.
U	User Profile Maintenance	Add, copy, modify, display, and purge the profiles of users of the PAC system.
V	View Security Maintenance	<ul style="list-style-type: none"> - Register a DDM to an application manually without, or before, using the DDM at the compilation of a Natural object. - Prohibit the use of all DDMs of a particular name at migrations to the compartment of a particular application. - Restrict the use of all DDMs of a particular name at migrations to the compartment of a particular application to "access only" - i.e. to prohibit the use of the DDM in the compiled objects for storing, updating, or deleting.

Archive Event Maintenance

Archiving is a migration with origin CONTROL and destination ARCHIVE. It consists of copying objects from a CONTROL status to a work file and subsequently deleting the objects from the ACF system file. The running of an archiving event covers only the copying; immediately after the copying, the objects are still in their compartment and are reported as "unloaded". The deleting is performed by the PAC administrator when he finalizes the completed archiving event, using the facility described in this section.

To access the archiving event maintenance functions, enter Code E on the Administrator Functions menu.

The Archive Event Maintenance Menu appears:

```

14:01:56          ***** PREDICT APPLICATION CONTROL *****          2000-04-16
User SAGU          - Archive Event Maintenance Menu -

                Code  Sub-Function
                ----  -
                D    Display an Archive Event
                F    Finalize an Archive Event
                M    Modify an Archive Event
                P    Purge an Archive Event
                S    Select an Archive Event
                ?    Help
                .    Exit
                ----  -

                Code .... _
                Event ... _____

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit                                     Canc

```

This chapter covers the following topics:

- Select an Archive Event
- Display Archive Event
- Modify Archive Event
- Finalize Archive Event
- Purge Archive Event

Select an Archive Event

To select archiving events on the Archive Event Maintenance Menu, enter the following:

- Code S
- a range of event names - assuming that "*" is left blank.

If there is a completed (unloaded, locking, finalizing, or finalized) archive event whose name is in the specified range, an Archive Event Selection List appears:

```

14:03:46          ***** PREDICT APPLICATION CONTROL *****          2000-04-16
User SAGU          - Archive Event Selection List -

C Nr Event Name                               State      Application Name
- - - - -
_  1 CLOVER-CONTROL-ARCHIVE-1                 Finalized  CLOVER
_  2 CLOVER-CONTROL-ARCHIVE-10                Finalized  CLOVER
_  3 CLOVER-CONTROL-ARCHIVE-11                Unloaded   CLOVER
_  4 CLOVER-CONTROL-ARCHIVE-2                 Unloaded   CLOVER
_  5 CLOVER-CONTROL-ARCHIVE-3                 Unloaded   CLOVER
_  6 CLOVER-CONTROL-ARCHIVE-4                 Finalized  CLOVER
_  7 CLOVER-CONTROL-ARCHIVE-5                 Finalized  CLOVER
_  8 CLOVER-CONTROL-ARCHIVE-6                 Unloaded   CLOVER
_  9 CLOVER-CONTROL-ARCHIVE-7                 Finalized  CLOVER
_ 10 CLOVER-CONTROL-ARCHIVE-8                 Unloaded   CLOVER
_ 11 CLOVER-CONTROL-ARCHIVE-9                 Unloaded   CLOVER

          Mark Selection, Enter Number or 'T' (Top) ___

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit          --          +          Canc
    
```

If there is no completed archive event whose name is in the specified range, a message appears on the original screen.

The "State" fields can have the values "Unloaded", "Locking", "Finalizing" and "Finalized".

"Unloaded" marks the archiving events which have been completed but whose finalization has not been started. The objects on the migration list of an unloaded archiving event have been written to a work file; their condition has not changed otherwise.

"Locking" and "Finalizing" mark the archiving events which have been completed and whose finalization has been started but not yet completed.

None of the objects on the migration list of a locking archiving event has been archived - i.e., deleted - from the ACF system file. Some objects on the migration list of a finalizing archiving event may have been archived while others remain only unloaded.

"Finalized" marks the archiving events which have been completed and whose finalization has also been completed. In some cases even an object on the migration list of a finalized archiving event may be unloaded but not archived.

The C fields of an Archive Event Selection List screen can take as values - in addition to "?" and "." - S(elect), D(isplay), M(odify), F(inalize), and P(urge). Only an archiving event in the state "Unloaded", "Locking" or "Finalizing" can be finalized.

The command S(elect) returns the Archive Event Maintenance Menu with its "Event" field filled with the name of the selected event.

Display Archive Event

Choose D from the Archive Event Maintenance Menu. D(isplay) produces a Display Archive Event screen:

```

14:04:36          ***** PREDICT APPLICATION CONTROL *****          2000-04-16
  User SAGU              - Display Archive Event -

Event ..... CLOVER-CONTROL-ARCHIVE-10          Modified: 1998-03-25 by EDSWBAT
Application .. CLOVER

Authorized ... 1998-03-25 12:13:49 by .. EDSW          Tid .. MSN1#EC6
Unloaded ..... 1998-03-25 12:14:29 by .. EDSWBAT          Tid .. EDSWBAT
Finalized .... 1998-03-25 12:20:27 by .. EDSW          Tid .. MSN1#EC7
Dataset ..... CLOVER-ARCHIVE-10_____
Volume Ser ... _____
Notes ..... _____
_____
_____

Processing state ..... Finalized
Unloaded objects ..... 2
Archived objects ..... 2

Additional Options ... N

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit Opts                               Canc
    
```

The default setting for additional options is N. If you set it to Y, a window is displayed with the following three additional options you can choose from:

- Archive migration list - i.e., the migration list of the archiving event with entries on resolved ranges;
- Audit report - i.e., the report of finalization which is present only if the archiving event is finalizing or finalized;
- Date.

Modify Archive Event

Choose M from the Archive Event Maintenance Menu.M(odify) produces a Modify Archive Event screen:

```

14:05:16          ***** PREDICT APPLICATION CONTROL *****          2000-04-16
User SAGU              - Modify Archive Event -

Event ..... CLOVER-CONTROL-ARCHIVE-10          Modified: 1998-03-25 by EDSWBAT
Application .. CLOVER

Authorized ... 1998-03-25 12:13:49 by .. EDSW          Tid .. MSN1#EC6
Unloaded ..... 1998-03-25 12:14:29 by .. EDSWBAT          Tid .. EDSWBAT
Finalized .... 1998-03-25 12:20:27 by .. EDSW          Tid .. MSN1#EC7
Dataset ..... CLOVER-ARCHIVE-10_____
Volume Ser ... _____
Notes ..... _____
_____
_____

Processing state ..... Finalized
Unloaded objects ..... 2
Archived objects ..... 2

Additional Options ... N

Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit  Opts                                Canc
    
```

A Modify Archive Event screen differs from the Display Archive Event in the following areas:

- Dataset;
- Volume Ser;
- Notes

Fields are unprotected, and their contents can be changed on the screen and in the corresponding archiving event record fields in the ACF system file.

Finalize Archive Event

Choose F from the Archive Event Maintenance Menu. F(inalize) is applicable only to unloaded, locking, and finalizing archiving events. When applied, it produces a Finalize Confirmation window:

```

14:03:46          ***** PREDICT APPLICATION CONTROL *****          2000-04-16
User SAGU          - Archive Event Selection List -

C Nr Event Name          State          Application Name
-----
_  1 CL+-----+
_  2 CL|          --- Finalize Confirmation ---
f  3 CL|
_  4 CL| Archive Event .. CLOVER-CONTROL-ARCHIVE-11
_  5 CL|
_  6 CL| The Finalize option has been invoked.
_  7 CL|
_  8 CL| Enter 'CONFIRM' or press PF5 to finalize or '.'
_  9 CL| to exit .. _____
_ 10 CL|
_ 11 CL| Verify Default parameters before continuing ...
      |
      | Batch/Online .. B
      | Job ..... BS2_BATCH_JCL_____
      +-----+

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help Menu Exit          --          +          Canc
    
```

Finalization can be performed online or in batch. Specify O(nline) or B(atch) in the Batch/Online field of the window. If you select B(atch), the name of a JCL text in the ACF system file must be specified in the "Job" field. The sample JCL texts provided by Software AG are called ..._BATCH_JCL. The @PAC-REQUEST parameter receives the value "ARCFINAL <event name>".

Enter CONFIRM or press PF5 to finalize an event. To exit the window without finalizing the archive event, enter a period (.) or press PF3 (Exit) or PF12 (Cancel)

Purge Archive Event

Choose P from the Archive Event Maintenance Menu. P(urge) produces a Purge Confirmation window:

```

14:03:46          ***** PREDICT APPLICATION CONTROL *****          2000-04-16
User SAGU          - Archive Event Selection List -

C Nr Event Name          State          Application Name
-----
p 1 CL+-----+
_ 2 CL|          --- Purge Confirmation ---
_ 3 CL|
_ 4 CL| Archive Event .. CLOVER-CONTROL-ARCHIVE-1
_ 5 CL|
_ 6 CL| The Purge option has been invoked.
_ 7 CL|
_ 8 CL| Enter 'CONFIRM' or press PF5 to finalize or '.'
_ 9 CL| to exit .. _____
_ 10 CL|
_ 11 CL|
+-----+

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit          --          +          Canc
    
```

Enter CONFIRM or press PF5 to purge an event whose entry is marked with a P in the Archive Event Selection List. Press PF3 to return to the Archive Event Selection List screen or to apply the next function specified in a C field of the Archive Event Selection List screen without purging the event.

After a completed archiving event has been purged, the work file it produced cannot be used by any restoration event.

To finalize or purge an event

- use option F or P on the Archive Event Maintenance Menu or
- use option S and, in column "C", select F or P.

General Defaults Maintenance

Using the General Defaults maintenance sub-functions you can:

- see and modify the values of the Level Name, Prefix, Gen No and MCG options fields of applications;
- see and modify the four extended description skeletons: default descriptions of applications, migration events, maintenance requests and a default JCL text;
- maintain sets of Predict generation defaults;
- see and modify the default settings of applymods;
- see and modify the values of migration job, batch/online, workfile usage, and copy/move/include fields of migration paths.
- see and modify the values of some system parameters and the default user profile;
- see and set user exit switches.

To access the general defaults maintenance functions, enter Code G on the Administrator Functions menu.

The General Defaults menu appears:

```

17:40:39          ***** PREDICT APPLICATION CONTROL *****          2000-04-20
User SAGU                - General Defaults -

Code  Sub-Function
-----
  A   Application Defaults
  E   Extended Description Skeletons
  G   PREDICT Generation Defaults
  M   Applymod Defaults
  P   Migration Path Defaults
  S   System Defaults
  U   User Exit Defaults
  ?   Help
  .   Exit
-----

Code ... _

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit                                     Canc

```

This chapter covers the following topics:

- Application Defaults
- Extended Description Skeletons
- Predict Generation Defaults
- Applymod Defaults

General Defaults Maintenance

- Migration Path Defaults
- System Defaults
- Display Control Information
- Display and Modify System Defaults
- Display and Modify User Profile Defaults
- User Exit Defaults

General Defaults Maintenance

Application Defaults

To access the application defaults maintenance functions, enter Code A on the General Defaults menu. An Application Name window appears:

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|                                     |                                     | 2000-04-20 |
|                                     | --- Application Name --- |             |
|                                     |                             |             |
| Name of the Application to be processed. The |                             |             |
| name may be a specific name or a Range of names. |                             |             |
| Range is specified as follows: |                             |             |
|                                     |                             |             |
| 'val'* - Process all applications beginning |                             |             |
|         with the string 'val'. |                             |             |
| 'val'> - Process all applications EQ or GT |                             |             |
|         the value of 'val'. |                             |             |
| 'val'< - Process all Application EQ or LT |                             |             |
|         the value of 'val'. |                             |             |
|                                     |                             |             |
| Enter Application Name below: |                             |             |
|         _____ |                             |             |
|                                     |                             |             |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|                                     |                             |             |
| Command ==> |                             |             |
| Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--- |                             |             |
|         Help  Menu  Exit |                             |             |
|                                     |                             |             |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

Enter a range of application names or, to immediately return to the General Defaults menu, press PF3 or enter "`.`".

If there is an application whose name is in the specified range, a Modify Application Defaults screen appears:

```

17:42:39          ***** PREDICT APPLICATION CONTROL *****          2000-04-20
User SAGU          - Modify Application Defaults -

Application Name          Level   Level Name   Prefix   Gen No   MCG
-----
CLOVER                   00001   1_____   CLO     ___14   ___
FURZE                    00001   1_____   _____   ___   ___
HEATHER                  00001   1_____   _____   ___   ___
MOSS                     00001   1_____   _____   ___   ___
PREDICT                  00001   3.4_____   PRD     ___1   ___
PREDICT_CASE             00001   2.3.1_____   PCA     _____   ___

          Press ENTER to continue or '.' to exit: __

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
          Help  Menu  Exit          --          +          Canc

```

If there is no application whose name is in the specified range, the General Defaults menu is re-displayed with a message.

The values of fields Level Name, Prefix, Gen No, and MCG of each listed application can be modified. They can also be modified at application modification in the Reporting and Maintenance subsystem of PAC.

The Level Name fields will take any character string values, whereby lower-case letters are replaced with their upper-case counterparts. The value of an application's Level Name field appears on the screens and displays the attributes of the application; it has no other significance.

The values of Prefix (a string of 1 to 3 characters) and Gen No (an unsigned integer automatically converted to a five digit sequence) are concatenated to replace "@GEN" at migration event addition. The value of Gen No is automatically incremented by one at the addition for the application of an event with sub-segment "@GEN" in its name. The values of Prefix and Gen No can be freely changed. Duplicate event names and event names beginning with digits are rejected at event addition - regardless of whether they have been entered in full by the user or have undergone "@GEN" replacement.

The value of an application's MGC field may affect the compilation of Natural objects at migration to the application's compartment.

The MCG option is a Natural profile parameter which activates the Natural Optimizer Compiler, which must be installed in your environment if you are using this option. Natural Optimizer Compiler is a Software AG product that extends the optimizing capabilities of Natural to complex statements and statement sequences including the following: array range operations; field concatenation; optimal base register assignment. If MCG is active, all programs are compiled to machine code.

The MCG field should be left blank if the Natural Optimizer Compiler is not installed. It must be set to "N" if Natural Optimizer Compiler is installed but is not to be used. Apart from these two values, the MCG will take "Y" and any string of "O", "I", "M" or "W".

Value	Description
blank	No MCG.
N	MCG off.
Y	Activates the MCG. Programs are partly compiled to machine code. Overflow checking, index checking, mix compilation, and I/O optimization are deactivated.
I	Activates the MCG and index checking.
O	Activates the MCG and overflow checking.
M	Activates the MCG and mix compilation. (The machine code is generated compatible with IBM and Siemens.)
W	Activates the MCG and the compilation to machine code of the Natural statements: DISPLAY, WRITE, WRITE TITLE, WRITE TRAILER, READ WORK FILE with SELECT option, WRITE WORK FILE.

Extended Description Skeletons

Applications, migration events and maintenance requests have "descriptions" - i.e., texts attached to the entities and accessible through Additional Options pop-ups or keys from the screens displaying the attributes of the entities. When an application, migration event or a maintenance request is added, its description is set at the appropriate default value specified by the PAC administrator, using the facility described in this section. If no default value has been specified, none is automatically attached to the entity being added. The maintainer of the entity is free to modify or discard the description attached to the entity by default.

The fourth description skeleton is actually a default JCL text. If specified by the PAC administrator, it is substituted whenever a JCL text is created in the ACF through the Jobs function on the Main Menu of the Reporting and Maintenance subsystem of PAC. The maintainer of the JCL text can then edit the default text into the JCL text desired.

To create, see or modify a description skeleton, enter Code E on the General Defaults menu.

The Description Skeletons menu appears:

```

17:48:32          ***** PREDICT APPLICATION CONTROL *****          2000-04-20
User SAGU        - Modify Defaults for Description Skeletons -

                Code  Object
                ----  -
                A    Description of a Application
                E    Description of a Migration Event
                J    Default JCL for a Job
                M    Description of a Maintenance Request
                ?    Help
                .    Exit
                ----  -

                Code ...

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
                Help  Menu  Exit                                Canc

```

To process a description skeleton:

1. Choose one of the four skeletons by entering an appropriate Code value.
A screen similar to that of a Natural editor appears.
2. Edit the skeleton.
3. Use the command SAVE to save the newly edited skeleton.
4. Enter "." to leave the editor and return to the Description Skeletons menu.

Predict Generation Defaults

This chapter covers the following topics:

- Sets of Generation Defaults
 - Linked Databases
 - Predict Generation Defaults
 - Copying Predict Generation Defaults from Predict
 - Modifying Linked Databases
 - Displaying Predict Generation Defaults
 - Purge Predict Generation Defaults
 - Select Generation Defaults
-

Sets of Generation Defaults

When PAC is initialized, a set of Predict generation defaults called "DEFAULTS" is automatically defined for use with migrations of Predict data into PAC.

Additionally, the PAC administrator may copy and store different sets of Predict generation defaults from Predict and may assign to each a specific name for use with migrations of Predict data into PAC.

The defaults to be used with a Predict migration event can be specified during authorization by entering the appropriate name of the defaults set previously saved.

If no defaults set is specified for a migration of Predict data into PAC, the default set DEFAULTS is used.

Note:

Note: If the DEFAULTS set is not found or if the specified set is not found, error 7012 is returned, indicating the defaults set that could not be located; the migration terminates at the generation step.

Linked Databases

Generation defaults for Adabas files have up to ten (10) databases to which files may be linked. On the Copy View Defaults screen, the Adabas Subsystem Specification DB-ID parameter determines whether a linked database is required. (This means that the generated DDM will not be assigned a DBnr.)

If the DB-ID=N is set in the stored generation defaults of Predict, a DDM with DBnr=0 is generated, even if the file is linked to several databases.

If DB-ID=Y is set in the stored generation defaults, Adabas files can be linked to databases. Note the following:

- Where no database is linked, the generation aborts and error 2047 is returned.
- Where one database is linked, PAC generates the view/DDM, using this database. The resulting DDM will have this database Dbnr.

- Where several databases are linked, PAC determines the database as follows:
 - If the file is linked to one or more databases in the object list of the event, PAC takes the first database in alphabetical order.
 - If the file is linked to one or more databases in the generation defaults, PAC takes the database from there. A database can be specified for each event for which the generation defaults set is used. PAC checks sequentially to determine whether the userview is linked to a database. The first database found with a link to the userview is selected for the generation.

PAC User Exit PACEXGEN

If the user exit PACEXGEN is active, PAC invokes the exit before the generation command is built in order to determine the linked database to be used for the DDM generation. If no linked database is found or DBID=N is set, a blank is passed to the exit. The user exit may then verify, override, or reset the linked database name.

Predict Generation Defaults

From the Predict Generation Defaults menu, you can copy, display, purge, or select Predict userview generation defaults; and modify the list of linked databases.

From the General Defaults menu, enter Code G (Predict Generation Defaults).

The Predict Generation Defaults menu appears:

```

17:54:00          ***** PREDICT APPLICATION CONTROL *****          2000-04-20
User SAGU          - Predict Generation Defaults -

Code  Sub-Function
-----
C    Copy Generation Defaults from Predict
D    Display Generation Defaults
M    Modify Linked Databases List
P    Purge Generation Defaults
S    Select Generation Defaults from a List
?    Help
.    Exit
-----

Code ..... _
Defaults name ... _____
Predict DBnr .... 222 Fnr ... 153
Replace ..... N

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit                                     Canc
    
```

In addition to the Code field, the following input fields are available for processing generation defaults:

Input Field	Description
Defaults Name	Name of the set of generation defaults. The name can be 1 to 8 characters long and have any combination of characters.
Predict DBnr/Fnr	Database number (DBnr) and file number (Fnr) of the Predict (FDIC) file from which the new defaults are to be copied.
Replace	Used with subfunction code C (Copy Generation Defaults from Predict). If a set of generation defaults already exists with the specified name: N (Default): The existing set is not replaced; Y: the existing set is replaced.

Copying Predict Generation Defaults from Predict

You can copy the Predict generation defaults in your FDIC file to the PCF system file.

The generation defaults, as they are currently defined in the referenced FDIC, file will be copied.

Note:

The values for these are not modifiable in PAC. To change the options, you must change the values in Predict, then copy the defaults into PAC.

The following are forced defaults for the DDM generation defaults.

Parameter	Default
General comments	Y
Short comments	Value is variable, independent of what is set in Predict
List verification	Y
Generate UDFs	Y
List UDFs	Y
List related maps	Y
List generated code	Y

 **To copy Predict generation defaults:**

1. Enter Code C (Copy Generation Defaults) and a name for the Predict userview generation defaults to be copied.

The Copy View Defaults screen appears, displaying the Predict userview generation defaults to be copied:

```

19:08:59          ***** PREDICT APPLICATION CONTROL *****          2000-04-20
User SAGU                - Copy View Defaults -

Generation Defaults ..... DFL00002
Overwrite option ..... Y (Y,N)   Adabas Subsystem
List generated code ..... N (Y,N)   Use ADASTAR access-nr ..... N
Adabas version ..... I3             Specification DB ID ..... N
                                       DB2 Subsystem
                                       Truncate creator ..... N (Y,N)

Field name prefix .....
Line comments ..... N (Y,N,O)   IMS Subsystem
General comments ..... Y (Y,N)   Generate UDFs ..... N (Y,N)
Short comments ..... 3 (0-16)   Replace UDFs ..... Y (Y,N)
Generate verif. rules ... Y (Y,N) List UDFs ..... N (Y,N)
Replace verif. rules .... Y (Y,N,S) IMS field suffix ..... N (Y,N)
List verif. rules ..... Y (Y,N)   Natural Subsystems
                                       Generate security ..... N (Y,N)
VSAM trailing BLANK char ...       Super Natural file opt ... N (Y,N)
                                       Super Natural file DBNR .. (0-254)
                                       Super Natural file FNR ... (0-255)

Linked Databases List ..... N
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit                                     Canc
    
```

Note:

Except for the Linked Databases List, the values for these defaults are not modifiable in PAC. To change the options, you must change the values in Predict, then copy the defaults into PAC.

2. To modify the linked databases, type Y over the default in the Linked Databases List field.

For more information, refer to Modify Linked Databases.

3. To copy the generation defaults, press ENTER. Or, to terminate the function without copying the defaults, press PF3 (Exit) or PF12 (Canc).

When you press ENTER, the Verification Defaults window appears, verifying that rules as well as views will be copied.

4. To complete the copying of the generation defaults, press ENTER. Or to terminate the function without copying the defaults, press PF3 (Exit) or PF12 (Canc).

The message "Generation Defaults have been copied." appears on the Predict Generation Defaults menu after you have successfully copied the Predict generation defaults to your PCF system file.

Modifying Linked Databases

 **To modify the list of databases linked to the Predict userview generation defaults**

- access the Modify Linked Databases List screen in one of the following ways:

From this Screen	User Action
Copy View Defaults	Type Y over the N default in the Linked Databases List field.
Predict Generation Defaults	Enter Code M (Modify Linked Databases List) and the name of the generation defaults set to be modified.
Predict Generation Defaults Selection List	Enter M (Modify Linked Databases List) in the C field adjacent to the name of the generation defaults set to be modified.

The Modify Linked Databases List screen appears:

```

14:07:23          ***** PREDICT APPLICATION CONTROL *****          2000-05-07
User: SAGXX          - Modify Linked Databases List -

Gen Defaults .. DB2-TRUN
Title ..... DB2 defaults to be used for the truncation of creator_____

Linked DBs .... PROD-DB_____
                  TEST-DB_____
                  _____
                  _____
                  _____
                  _____
                  _____
                  _____

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
          Help  Menu  Exit                                     Canc
    
```

From this screen, you can

- modify or add the database names of up to 10 databases;
 - The database names can be entered, using uppercase or lowercase text; however, the first character must be capitalized.
- modify the entry in the Title field, which is used to specify an extended name or description for the generation defaults set;
- press ENTER to confirm your modifications.
 - You are returned to the Predict Generation Defaults menu.

Displaying Predict Generation Defaults

To display Predict userview generation defaults, access the Display View Defaults screen.

From this Screen	User Action
Predict Generation Defaults Menu	Enter Code D (Display Generation Defaults) and the name of the userview in the Defaults Name field.
Predict Generation Defaults Selection List	Enter D (Display Generation Defaults) in the C field adjacent to the name of the userview.

```

17:59:51          ***** PREDICT APPLICATION CONTROL *****                2000-04-20
User SAGU              - Display View Defaults -

Generation Defaults ..... DFL00001
Overwrite option ..... Y (Y,N)      Adabas Subsystem
List generated code ..... N (Y,N)    Use ADASTAR access-nr .... N
Adabas version ..... I1              Specification DB ID ..... N
                                      DB2 Subsystem
                                      Truncate creator ..... N (Y,N)

Field name prefix .....
Line comments ..... N (Y,N,O)      IMS Subsystem
General comments ..... Y (Y,N)      Generate UDFs ..... N (Y,N)
Short comments ..... 3 (0-16)      Replace UDFs ..... Y (Y,N)
Generate verif. rules ... Y (Y,N)   List UDFs ..... N (Y,N)
Replace verif. rules ... Y (Y,N,S)  IMS field suffix ..... N (Y,N)
List verif. rules ..... Y (Y,N)     Natural Subsystems
                                      Generate security ..... N (Y,N)
VSAM trailing BLANK char ...        Super Natural file opt ... N (Y,N)
                                      Super Natural file DBNR .. (0-254)
                                      Super Natural file FNR ... (0-255)

Linked Databases List ..... N
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit                                Canc
    
```

The Display View Defaults screen lists the generation defaults for the specified Predict userview. This screen is similar to the Copy View Defaults screen; however, the Display View Defaults screen may not be modified.

To display a list of databases linked to the generation defaults, type Y over the N default in the Linked Databases List field.

The Display Linked Databases List screen appears. The linked databases list may not be modified. For an example of a similar screen, refer to Modify Linked Databases.

Purge Predict Generation Defaults

The purge function is used to purge the defaults for both rules and userviews.

To purge a Predict generation default set, access the Purge Confirmation window in one of the following ways:

- From the Predict Generation Defaults menu, enter Code P (Purge Generation Default) and the name of the generation default set to be purged in the Defaults Name field.
- From the Predict Generation Defaults Selection List, mark the desired generation default set with P in the "C" column.

From the Purge Confirmation window, do one of the following:

- To purge the Predict generation defaults, enter CONFIRM or press PF5.

- To terminate the function without purging the defaults, enter a period (.) or press PF3 (Exit) or PF12 (Canc).

The message "Predict ... Generation Defaults purged" appears after you have successfully purged the Predict generation defaults.

Select Generation Defaults

To display a selection list of all Predict generation default sets, enter Code S (Select Generation Defaults). Use range notation if you want to limit the list of generation defaults.

The Predict Generation Defaults Selection List screen appears displaying a list of Predict generation default sets which have been copied into PAC as shown in the following example:

```

18:02:07          ***** PREDICT APPLICATION CONTROL *****          2000-04-20
User SAGU          - PREDICT Generation Defaults Selection List -
  Select Predict Generation Defaults *
C Nr Gen Defaults Title
- - - - -
_  1 DEFAULTS
_  2 DFL00001

                                Mark Selection, Enter Number or 'T' (Top) __

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit          --          +          Canc
    
```

To display a specific set of Predict generation defaults on the Display View Defaults screen, mark the defaults set with an X in the C column, or enter the number (from the Nr column) in the Mark Selection... field.

You may modify a linked databases list (M), display generation defaults (D), or purge generation defaults (P) directly from this screen by marking the name of the generation defaults set with the appropriate code in the C column. Refer to the relevant sections for examples of the resulting screens.

Applymod Defaults

Applymods are switches whose settings influence the behavior of PAC object processing. There is a default set of such switches for PAC as a whole and a separate set for each migration event. The default set consists of 21 applymods numbered as follows: 1, 2, 4 - 6, 8 - 14, 16, 18 - 20, 23, 24, 29 - 31.

Each event set consists of 18 applymods. The applymods 1, 20, 23 are contained only in the default set. Each applymod in the default set can take as value N(o), Y(es), D(eactivate), and A(ctivate). Each applymod in an event set can take as value N(o) and Y(es). In contexts other than migration, only the default settings are valid and have the switch "off", Y and A and "on".

At migration, there are 18 pairs of switches, each of which has eight possible settings. These settings have the following effects:

Default setting	Event setting	Effect
N	N	off
N	Y	on
Y	N	off
Y	Y	on
D	N	off
D	Y	off
A	N	on
A	Y	on

The 21 default applymod values are set by the PAC administrator with facility described in this section. The 18 applymod values of each migration event are derived (N,D f N; Y,A f A) from the default settings at event addition and can be subsequently changed whenever the event is authorized and (the default) applymod is set to "N".

The roles of individual applymods are described in PAC Reference documentation.

To see or modify the default applymod settings, enter Code M on the General Defaults menu.

The Applymod Defaults menu appears:

```

18:15:15          ***** PREDICT APPLICATION CONTROL *****          2000-04-20
User SAGU              - Applymod Defaults -

Code  Sub-Function
-----
   D  Display Applymods
   M  Modify Applymods
   ?  Help
   .  Exit
-----

Code ... _

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit                               Canc
    
```

Enter Code D to display the values of the default applymods or Code M to modify them. In the first case, a Display Applymods screen appears. In the second case, the following Modify Applymods screen appears. On the first screen, the fields of the first column containing the values of the default applymods are protected; on the second screen, they are not protected.

```

18:16:40          ***** PREDICT APPLICATION CONTROL *****          2000-04-20
User SAGU              - Modify Applymods -

                                                Modified: 2000-04-11 by SAGU

Used   Number   Applymod Description
-----
   N     1     Disallow Override of Parms during Authorization
   N     2     Do not optimize size of Cataloged object
           3     Not Implemented
   N     4     Suppress Audit Report creation during Migration
   N     5     Suppress GDA auto expand during Migration
   N     6     Migrate objects only previously migrated
           7     Not Implemented
   N     8     Force all DDMS/LDAs/PDAs to be unloaded during Migration
   N     9     Expand facility should select for Languages 1-9 on Maps
   N    10     Migrate objects to a status only if they have changed
   N    11     Check runtime subordinates immigrating
Enter options (above), or '?' (help) or '.' (exit): __

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit Date      --  -  +                               Canc
    
```

Note:

To change the applymod settings, remember to press ENTER before using PF3 to return to the Applymod Defaults menu.

Press PF4 to see when and by whom the default applymod values were last modified.

Migration Path Defaults

Using the maintenance functions in the Administration subsystem of PAC available in the Migration Path Defaults Menu allow you to see and modify the values of the job, batch/online, workfile usage, and copy (C)/move (M)/include (I) fields of the migration paths. Perform the modification in either of the following ways:

- manually on screens listing migration paths (one per line);
- automatically for all paths satisfying the selection criteria.

The facilities described in this section are also available via the SCANPATH utility. For details, see the PAC Reference documentation.

To access the defaults maintenance functions for migration paths, enter Code P on the General Defaults menu.

The Migration Path Defaults Menu appears:

```

18:18:13          ***** PREDICT APPLICATION CONTROL *****          2000-04-20
User SAGU          - Migration Path Defaults Menu -

Code  Sub-Function
----  -
M     Modify Migration Paths Defaults
S     Scan/Replace Migration Paths
?     Help
.     Exit
----  -

Code ..... _
Application ..... * _____
Origin Status ..... * _____ Type .. *
Destination Status .. * _____ Type .. *
Scan for Job ..... _____

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit                               Canc
    
```

Enter Code M to get a list of migration paths and for modifying manually the values of their job, batch/online, workfile usage, and copy/move/include fields.

Enter Code S for PAC to automatically modify the values of the job, batch/online, workfile usage, or copy/move/include fields of all paths which satisfy the selection criteria.

In either case, specify the migration path selection criteria. Six fields are provided:

Input Field	Description
Application	For the specification of a range of application names to restrict the choice of paths to those whose application names are in the range.
Origin Status	For the specification of a range of status names to restrict the choice of paths to those whose origin status names are within the range.
(origin status) Type	For the optional specification of a status type to restrict the choice of paths to those whose origin statuses are of the specified type.
Destination Status	For the specification of a range of status names to restrict the choice of paths to those whose destination status names are within the range.
(destination status) Type	For the optional specification of a status type to restrict the choice of paths to those whose destination statuses are of the specified type.
Scan for Job	For the optional full (i.e., no range notation) specification of a JCL text name to restrict the choice of paths to those whose Migration Job fields contain the specified name.

The Type fields - except for synonymous "*" and " " - can take the following values: A(RCHIVE), C(ONTROL), D(evelopment), I(ncorporation), M(aintenance), R(ETIRE), and T(est).

If Code M has been entered on the Migration Path Defaults Menu and there is a migration path which satisfies the selection criteria, a Modify Migration Path Defaults screen appears:

```

18:20:33          ***** PREDICT APPLICATION CONTROL *****          2000-04-20
User SAGU          - Modify Migration Path Defaults -
MODIFY Path Application HEATHER FM Status * Type * TO Status * Type *
Origin Status      Dest Status      Job                                Bat WKF Copy
-----
ARCHIVE            RETIRE                                O  N  M
CONTROL            CONTROL                                O  N  C
CONTROL            PROB                                  BS2_MIGRATE_WORKFILE B  Y  C
CONTROL            PROA                                  BS2_MIGRATE_WORKFILE B  Y  C
CONTROL            ARCHIVE                               BS2_ARCHIVE_UNLOAD   B  Y  M
CONTROL            DEV0                                    O  N  C
CONTROL            MAI1                                    O  N  C
CONTROL            TES6                                    O  N  C
CONTROL            RETIRE                                O  N  M
DEV0               CONTROL                                O  N  C
MAI1               CONTROL                                O  N  M
MAI1               RETIRE                                O  N  M
PROA               RETIRE                                BS2_MIGRATE_WORKFILE B  Y  M

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit          Updt  --          +          <          >      Canc
    
```

If there is no migration path satisfying the selection criteria, a message appears on the Migration Path Defaults Menu.

Modify the values of the Job, Batch/Online, Workfile Usage, or Copy (C), Move (M), Include (I) fields as needed and press PF5 to update the corresponding fields in the migration event records. Press PF8 to go to the next screen of the list without applying the yet unapplied current screen modifications. Press PF3 to return to the Migration Path Defaults Menu without applying the current screen modifications which have not yet been applied.

Note:

The Include option is batch for the event from an externally created work file (CMWK01) and is valid for paths with an origin status of incorporation only.

Use PF10 and PF11 to list other attributes of the paths:

```

18:24:49          ***** PREDICT APPLICATION CONTROL *****          2000-04-20
User SAGU          - Modify Migration Path Defaults -
MODIFY Path Application HEATHER FM Status * Type * TO Status * Type *

Application                Job                Path
-----
HEATHER                    _____ Archv->Retre
HEATHER                    _____ Cntrl->Cntrl
HEATHER                    BS2_MIGRATE_WORKFILE_____ Cntrl->Prod
HEATHER                    BS2_MIGRATE_WORKFILE_____ Cntrl->Prod
HEATHER                    BS2_ARCHIVE_UNLOAD_____ Cntrl->Archv
HEATHER                    _____ Cntrl->Devlp
HEATHER                    _____ Cntrl->Maint
HEATHER                    _____ Cntrl->Test
HEATHER                    _____ Cntrl->Retre
HEATHER                    _____ Devlp->Cntrl
HEATHER                    _____ Maint->Cntrl
HEATHER                    _____ Maint->Retre
HEATHER                    BS2_MIGRATE_WORKFILE_____ Prod->Retre

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit          Updt  --          +          <          >          Canc
    
```

Use PF10 and PF11 to list the following information:

```

18:25:17          ***** PREDICT APPLICATION CONTROL *****          2000-04-20
User SAGU          - Modify Migration Path Defaults-
MODIFY Path Application HEATHER FM Status * Type * TO Status * Type *

Origin Status              Destination Status          Path
-----
ARCHIVE                    RETIRE                      Archv->Retre
CONTROL                    CONTROL                     Cntrl->Cntrl
CONTROL                    PROB                        Cntrl->Prod
CONTROL                    PROA                        Cntrl->Prod
CONTROL                    ARCHIVE                     Cntrl->Archv
CONTROL                    DEVO                       Cntrl->Devlp
CONTROL                    MAI1                       Cntrl->Maint
CONTROL                    TES6                       Cntrl->Test
CONTROL                    RETIRE                     Cntrl->Retre
DEVO                       CONTROL                     Devlp->Cntrl
MAI1                       CONTROL                     Maint->Cntrl
MAI1                       RETIRE                     Maint->Retre
PROA                       RETIRE                     Prod->Retre

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit          Updt  --          +          <          >          Canc
    
```

If Code S has been entered on the Migration Path Defaults Menu, a Scan/Replace Migration Paths window appears:

```

18:18:13          ***** PREDICT APPLICATION CONTROL *****          2000-04-20
User SAGU          - Migration Path Defaults Menu -

+-----+
|                                     - Scan/Replace Migration Paths -                                     |
| Confirmation Required .. Y                                                 |
|                                                                              |
| Replace                                                                      |
| Job ..... _____                                                       |
| Batch/Online ..... _                                                       |
| Workfile Usage ..... _                                                    |
| Copy/Move/Include .... _                                                  |
|                                                                              |
Code ..+-----+
Application ..... * _____
Origin Status ..... * _____ Type .. *
Destination Status .. * _____ Type .. *
Scan for Job ..... _____

PAC2001: (I) Function terminated at user's request.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit                                                    Canc
    
```

Specify a replacement JCL text name in the Job field to write it into the Migration Job fields of selected paths. Leave the Job field of the window blank if the Migration Job fields of the selected paths are not to be automatically updated. Also specify a value for the Batch/Online fields of selected paths if a replacement is needed. Treat the Workfile Usage and the Copy/Move/Include fields of the window similarly.

Set the Confirmation Required field to NO (N) for the replacements to go ahead for all selected paths without further confirmations.

Set the Confirmation Required field to Yes (Y) to invoke a Scan/Replace Migration Path screen for every selected path:

```

18:27:09          ***** PREDICT APPLICATION CONTROL *****                2000-04-20
User SAGU          - Scan/Replace Migration Path -

Application ..... HEATHER
Origin Status ..... ARCHIVE                                     Type .. Archive
Destination Status ... CONTROL                                 Type .. Control

Update Path ..... U (U-Update, I-Ignore)

Current Values
Job .....
Batch/Online ..... B          Workfile Usage ... N
Copy/Move/Include .. I

New Values
Job .....
Batch/Online ..... B          Workfile Usage ... N
Copy/Move/Include .. I

PAC7000: (I) Enter 'U' to update Path, 'I' to Ignore.

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit          Updat                               Canc
    
```

Five fields are unprotected on this screen: the Update Path and the four New Values fields.

You can

- keep or enter Update (U) in the Update Path field and press ENTER or press PF5 to apply the specified replacements to the particular path;
- modify the New Values for the particular path and then update the four fields of the particular path record by entering U in the Update Path field or pressing PF5;
- keep or enter Ignore (I) in the Update Path field and press ENTER or just press PF3 to avoid updating the particular path and to pass on to the next selected path (or the Migration Path Defaults Menu after dealing with the last selected path);
- press PF12 to immediately return to the Migration Path Defaults Menu.

System Defaults

The system defaults maintenance functions in the Administration subsystem of PAC allow you

- to see the control information of PAC - i.e. of the ACF and PCF system files;
- to see and modify the values of eight PAC parameters;
- to see and modify the default user profile which contains the initial settings used at user profile addition.

To access the system defaults maintenance functions, enter Code S on the General Defaults menu.

The System Defaults menu appears:

```

18:34:58          ***** PREDICT APPLICATION CONTROL *****          2000-04-20
  User SAGU                - System Defaults -

          Code  Sub-Function
          ----  -
          C    Display Control Information
          D    Display System Defaults
          M    Modify System Defaults
          P    Modify User Profile Defaults
          U    Display User Profile Defaults
          ?    Help
          .    Exit
          ----  -

          Code ... _

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit                                Canc

```

Display Control Information

Enter Code C on the System Defaults menu to access a Display Control Information screen:

```
18:35:12          ***** PREDICT APPLICATION CONTROL *****          2000-04-20
User VMU          - Display Control Information -

ACF System File ..... 00164,00137
PCF System File ..... 00164,00135
PCF PREDICT version ... 4.1

PAC Version ..... 2.2.01
Installation Date .... 2000-11-25 10:16:55

NATURAL Version ..... 3.1.02

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit
```

The screen contains:

- the database and file numbers of PAC's ACF systemfile;
- the database and file numbers of PAC's PCF system file;
- the version and release numbers of PAC;
- the date and time associated with the version of PAC;
- the date and time when the user initialized PAC.

Press ENTER to return to the System Defaults menu.

Display and Modify System Defaults

Enter Code D on the System Defaults menu to display the system defaults of the PAC. A Display System Defaults screen will appear. It differs from a Modify System Defaults screen only in that all its fields except the command line are protected.

Enter Code M on the System Defaults menu to modify the system defaults of the PAC.

A Modify System Defaults screen appears:

```

18:37:52          ***** PREDICT APPLICATION CONTROL *****          2000-04-20
User SAGU          - Modify System Defaults -

Profile .. SYSTEM                               Modified: 1998-11-10 By: SAGU

System Title ..... ***** PREDICT APPLICATION CONTROL *****_
Display Banner Screen ..... Y

ET Maximum ..... 20__
Roll Count ..... 500__

Default Batch User ID ..... *USER__
JCL Substitution Character ... @
Finalize PAC Job Name ..... BS2_BATCH_JCL_____
Maintenance Request Gen No ... 00001

PCF Coordinator FDIC ... Dbnr 164__ ... Fnr 133__

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit                                     Canc
    
```

The values of its nine unprotected fields are described below:

Value	Description
System Title	The title to appear at the top of the PAC screens.
Display Banner Screen:	NO (N) not to display a banner screen when the PAC is started; YES (Y) to display it.
ET Maximum	The maximum number of held ISNs.
Roll Count	The maximum number of teleprocessing transactions between Natural task rolls (the TP parameter).
Default Batch User ID	@USER substitution parameter Batch user ID User ID batch User ID Natural session User ID to be used when a batch job is submitted. This value is also used for the @USER substitution parameter in batch job JCL. The default will substitute @USER with the user's Natural session user ID (*USER).
JCL Substitution Character	The initial character of the names of JCL substitution parameters.
Finalize PAC Job Name	The name of the JCL text to be used at archiving event finalization unless the finalizer specifies another JCL text or finalizes the event online.
Maintenance Request Gen No	The current maintenance request @GEN replacement.
PCF Coordinator FDIC	Enables you to set / define the Coordinator FDIC for the PAC PCF file.

Modify the displayed values and press ENTER to apply the changes. Press PF3 to return to the System Defaults menu without changing the values of the PAC parameters.

Display and Modify User Profile Defaults

Enter Code U on the System Defaults menu to display the default user profile containing the initial settings used at user profile addition. A Display User Profile Defaults screen will appear. It differs from a Modify User Profile Defaults screen only in that all its fields are protected.

Enter Code P on the System Defaults menu to modify the default user profile.

A Modify User Profile Defaults screen appears:

```

18:40:14          ***** PREDICT APPLICATION CONTROL *****          2000-04-20
User SAGU          - Modify User Profile Defaults -
Profile .. SYSTEM          Modified: 1998-11-10 By: SAG

----- Functions -----

Administrator ..... N
Authorize Migration Events ... N      Submit Migration Events ..... N

----- Maintenance Entities -----

Applications ..... R      Application Status Links ..... R
Statuses ..... R          File Translation Tables ..... R
Jobs ..... R              Keywords ..... R
Maintenance Requests ..... R      Migration Events ..... R
Migration Paths ..... R

----- Retrieval Entities -----

Change Control Logs ..... R      Object Versions ..... R

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit                                  Canc
    
```

User Exit Defaults

User exits are sets of CALLNATs in PAC. Each such set is a set of CALLNATs of a subprogram of a particular name documented in PAC Reference documentation. The user can write the subprogram himself using the parameters described in PAC Reference documentation. If then the subprogram is catalogued in SYSPAC or its step library and the user exit is "switched on" by the PAC administrator with the facility described in this section, the subprogram will be called in certain situations. If the subprogram is available, but the user exit is not switched on, the CALLNATs of the exit are bypassed. If the user exit is switched on, but the subprogram is not available, NAT0082 occurs. Apart from the subprogram names PAC user exits have numbers. There are 35 of them, numbered as follows: 1 - 23, 25 - 28, 30 - 32, 34 - 37, 40.

For each (numbered) PAC user exit, there is a switch at any time set to NO (N) for "off" or YES (Y) for "on". To see or modify these settings enter Code U on the General Defaults menu.

The User Exit Defaults menu appears:

```

18:42:28          ***** PREDICT APPLICATION CONTROL *****          2000-04-20
  User SAGU              - User Exit Defaults -

                Code  Sub-Function
                ----  -
                D    Display User Exits
                M    Modify User Exits
                ?    Help
                .    Exit
                ----  -

                Code ... _

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit                                     Canc

```

Enter Code D to display the settings of the user exit switches or Code M to modify them. In the first case, a Display User Exits screen appears; in the second case, the following Modify User Exits screen appears. The two screens differ in that, on the first screen, the fields of the first column containing the settings of the switches are protected while, on the second screen, they are not.

```

18:43:38          ***** PREDICT APPLICATION CONTROL *****          2000-04-20
User SAGU              - Modify User Exits -

Page 1                      Modified: 1998-04-06 by EDSW

Used   Number   Exit Description
-----
N      1       PAC initialization user exit
N      2       PAC termination user exit
N      3       Adabas file security exit (MIGEX003)
N      4       PAC entity purge validation
N      5       Concurrent migration verification
N      6       Compilation error verification
N      7       Change Control List verification
N      8       Application location validation (Appl-Status link)
N      9       Verification of duplicate objects for migration
N     10       Migration object list verification
N     11       General validation for batch job
N     12       Batch job submission verification

Enter options (above), or '?' (help) or '.' (exit): __
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit Date      --  -  +                      Canc
    
```

Note:

To change the user exit switch settings, remember to press ENTER before using PF3 to return to the User Exits Defaults menu.

Press PF4 to see when and by whom the default applymod values were last modified.

Foreign Object Maintenance

The foreign object types to be accepted by PAC must be defined by the PAC administrator, using the Foreign Maintenance Administration Function. Then some of these acceptable foreign object types can be allowed for an application and assigned to a location specified in an application-status link for a migration. How to define a foreign type is described here. Allowing an already defined type for an application and assigning it to a location are described in the PAC User's Guide.

Enter Code N on the PAC Administrator Functions Menu to open the following Foreign Maintenance screen.

```

15:50:38          ***** PREDICT APPLICATION CONTROL *****          2000-01-30
User SAGU              - Foreign Maintenance -

                                Code  Sub-Function
                                ----  -
                                M    Modify Table
                                D    Display Table
                                ?    Help
                                .    Exit
                                ----  -

                                Code ... _

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit                                     Canc
    
```

Enter Code M (Modify Table) or D (Display table) to display the Foreign Support Maintenance screen.

```

15:53:25          ***** PREDICT APPLICATION CONTROL *****          2000-01-30
User SAGU              - Foreign Support Maintenance -

No  Code Type Long Text      Short Description      Add Date  Add User
---  ---  ---  -
1   3COL L   COBOL LOAD__ COB L_ _____  1998-09-19 SAGU
2   3COS S   COBOL SOURCE COB S_ _____  1998-09-19 SAGU
3   3JCL S   JCL TEXT_____ JCL_____  1998-09-19 SAGU
4   3POM S   POEM_____ POEM_____  1998-12-14 SAGU
5   _____
6   _____
7   _____
8   _____
9   _____
10  _____
11  _____
12  _____

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit                                     Top  Up  Down  Canc
    
```

If you accessed the table, using the M (Modify Table) code, you can add or modify the types of foreign datasets to be supported at your site. Object types not entered on this table will not be displayed in further selection screens.

Every dataset name and type entered in this table will be stored as a record on the ACF to facilitate the use of the table in the future.

The purpose of this table is to reduce the complexity for the application developer by reducing the list of supported foreign objects. When defining an application, the project leader may want to further limit the foreign objects supported for a particular application. This will make the selection of foreign objects easier since the user will not be concerned with foreign objects their application does not use.

Note:

A foreign type definition can be purged only if it is not allowed for any application and not assigned to any location specified in an application-status link. To purge such a definition, blank out its line on the Foreign Support Maintenance screen.

 **To define a foreign dataset to be supported by your PAC installation:**

1. Enter an object Type code.

For foreign objects, the type code is automatically prefixed with a "3". You are allowed to specify up to three additional characters. This code is used to identify the object type on the object list for migration events and must uniquely identify the dataset. This code cannot be modified once the dataset has been used.

2. Enter an object format (Fmt).

Valid values for the object format include

S	for source code, the default.
L	(Load) for compiled (object) code.

3. Enter both a Long Text and a Short text name for the dataset, and a short Description.

The long text name is limited to 12 characters; the short text name to 6 characters; and the description to 15 characters.

Locked Data Maintenance

Data is locked by PAC when it is being processed. Users can unlock data which they themselves have locked.

Note:

Only a PAC administrator can unlock data which has been locked by other users.

If a migration event is not successfully completed, the data it locked remains locked. An uncompleted event can be resubmitted. In this case, an attempt is made to resume its processing from the beginning of the first uncompleted step. The PAC administrator can reset an uncompleted event. In this case, the data locked by the migration event remains locked. If, however, the event is resubmitted, it is restarted from the beginning rather than from the last step reached. The PAC administrator can also release an uncompleted event. If the event has not reached step 6, it is backed out. If it has reached step 6, its completion is forced.

On the Administrator Functions menu, enter Code L (Locked Data Maintenance). Or enter the command UNLOCK on the command line of any PAC menu.

The Display Locked Data screen appears:

```

17:03:00          ***** PREDICT APPLICATION CONTROL *****          2000-03-03
User SAGU                - Locked Data Menu -

      Code  Sub-Function
      ----  -
      D    Display Locked Data
      R    Release Locked Data
      S    Select Locked Data
      ?    Help
      .    Exit
      ----  -

Code ... _
User ... _____

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit                                cancel
    
```

This chapter covers the following topics:

- Display Locked Data
- Release Locked Data
- Reset a Migration Event
- Select Locked Data

- Undo a Migration Event

Display Locked Data

From the Locked Data Menu, you can display all locked data or data locked by a specified user if you are a PAC administrator. If you are not a PAC administrator, you can display the data which you yourself have locked.

This section covers the following topics:

- Data Locked by a User
- Details of a Locked Entity
- Details of an Application Locked by a Migration

Data Locked by a User

To access a list of data locked by a user, enter Code D (Display Locked Data) and the user ID of the user.

If you do not specify a user, a list of all data locked by all users is displayed.

A Display Locked Data screen appears:

```

17:03:37          ***** PREDICT APPLICATION CONTROL *****          2000-03-03
User SAGU                - Display Locked Data -

C Nr Name of Locked Entity          Lock Type          Reason          User ID
-----
_  1 CLOVER                          Application        Migration    EDSW
_  2 HEATHER-DEV0-CONTROL-1          Migration Event    MODIFY       SAGU

Mark Selection, Enter Number or 'T' (Top) __

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
          Help Menu Exit          --          +          >          Canc
    
```

This screen lists the following: the name and the type of a locked entity; the cause of the locking (modification, deletion or migration); the user ID of the user who locked the entity. Each entry is assigned a number on the screen ("Nr" column), and an input field is provided for selecting an entry ("C" column).

Press PF11 to display the ID of the terminal from which the data were locked and the date and time at which the data was locked. Press PF10 to again display the cause of the locking and the user ID.

Details of a Locked Entity

To display information about an entity listed as locked on the Display Locked Data screen, enter the number of the entry (from the "Nr" column) in the Mark Selection field, or enter D in the "C" column next to the entry, or mark the entry with the cursor.

The specified locked data is displayed in a Display Locked Data window:

```

17:03:37      ***** PREDICT APPLICATION CONTROL *****      2000-03-03
User SAGU          - Display Locked Data -

C Nr Name of Locked Entity          Lock Type          Reason          User ID
-----
+-----+
|          --- Display Locked Data ---          |
| Migration Event data was locked by User SAGU at TID PCM18 |
| on 1998-03-03 16:51:16                               |
| Migration Event .. HEATHER-DEV0-CONTROL-1             |
| Reason ..... MODIFY                                  |
+-----+

Mark Selection, Enter Number or 'T' (Top) __

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit          --          +          >      Canc
    
```

This window identifies the following: the entity locked; the user who locked it; whether it was locked by a batch job or from an identified terminal; the time at which it was locked; the cause of the locking.

Details of an Application Locked by a Migration

If the information you displayed is about an application locked by a migration event, the resulting Display Locked Data window looks like this:


```

17:07:09          ***** PREDICT APPLICATION CONTROL *****          2000-03-03
User SAGU              - Display Locked Migration Event Data -

Event ..... CLOVER-DEV0-CONTROL-1
Application .. CLOVER
From Status .. DEV0          LIB .. ES0          (222,122)
To Status .... CONTROL      LIB .. * PACS * (222,144)

Object              Object Type          Version Status
-----
ES_Z_L03           Local              00001 Locked
ES_Z_N99           Subprogram         00001 Locked
ES_Z_P04           Program            00001 Locked
ES_Z_P05           Program            00001 Locked
ES_Z_P09           Program            00002 Locked
ES_Z_P11           Program            00001 Locked
CLOVER-DEV0-CONTROL-1 Migration Event    Locked
CLOVER             Application        00001 Locked

          Press ENTER to continue or '.' to Exit: _
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
          Help Menu Exit                               Canc
    
```

This screen provides the following additional information:

- the Natural locations of the origin and non-production destination migrations which are identified by their library names, and data base and file numbers;
- the name and type of each entity which has been locked;
- the version number of each object migrated by the locked migration event;
- The state of each locked object. The possible status values are:

Check in of an object being migrated from maintenance;

Check out of an object being migrated to maintenance;

Roll in of a compile time subordinate which is being entered into the PCF system file to be used at the compilation incident to migration;

Roll out of a versioned object being replaced in the PCF system file by another of the same name to be used at the compilation incident to a migration;

Locked of the migration event that has caused the locking; of the application locked; of an object being migrated from or to a type other than maintenance; of an object being aligned or retired.

Release Locked Data



Warning:

The releasing of data locked by a migration event, which has not reached step 6, is accompanied by the undoing of the migration effects. The releasing of data locked by a migration event, which has reached step 6, forces the event's completion - for example, newly migrated objects stay in CONTROL.



To release locked data use the following procedure.

1. To access a Release Locked Data screen, do one of the following:

- On the Administrator Functions menu, enter Code R (Release Locked Data) and optionally enter a user ID in the User field to limit the list.
- On the Display Locked Data screen, mark the locked entity with R in the "C" column.

```

17:08:07      ***** PREDICT APPLICATION CONTROL *****      2000-03-03
User SAGU          - Release Locked Data -

C  Nr  Name of Locked Entity          Lock Type          Reason          User ID
-----
_  1  CLOVER                          Application        Migration        EDSW
_  2  HEATHER-DEV0-CONTROL-1         Migration Event    MODIFY           SAGU

Mark Selection, Enter Number or 'T' (Top) __

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit          --          +          >      Canc
    
```

This screen provides the same information as the Display Locked Data screen - that is, it lists the name and type of a locked entity; the cause of the locking (modification, deletion or migration); the user ID of the user who locked the entity. Each entry is assigned a number on the screen ("Nr" column); and an input field is provided for selecting an entry ("C" column).

Press PF11 to display the ID of the terminal from which the data were locked and the date and time at which the data were locked. Press PF10 to again display the cause of the locking and the user ID.

2. Select the data you want to release by

- either entering the number of the entry (from the "Nr" column) in the Mark Selection field;
- or by entering Rs in the "C" column next to the entries;
- or by marking the entry with the cursor.

If you select data that is not locked by a migration event, the Release/Reset/Undo Confirmation window appears:

```

17:03:37      ***** PREDICT APPLICATION CONTROL *****      2000-03-03
User SAGU              - Release Locked Data -

C Nr Name of Locked Entity          Lock Type          Reason          User ID
-----
+-----+-----+-----+-----+
|                                     |                   |               |               |
|               --- Release Confirmation ---               |                   |               |               |
|                                     |                   |               |               |
|   Migration Event data was locked by User UKMJ           |   at TID DAEETCAV |               |               |
|   on 2001-05-03 10:04:08                               |                   |               |               |
|                                     |                   |               |               |
|   Event ... TEST                                       |                   |               |               |
|   Reason .. MODIFY                                    |                   |               |               |
|                                     |                   |               |               |
|   The Release option has been invoked.  Enter 'RELEASE' |   to confirm or '.' |               |               |
|   to Exit .. _____                               |                   |               |               |
|                                     |                   |               |               |
+-----+-----+-----+-----+

                Mark Selection, Enter Number or 'T' (Top) __

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
                Help Menu Exit                                Canc
    
```

It is similar to the Display Locked Data window because it provides the following information: the entity locked; whether it was locked by a batch job or from an identified terminal; the time at which it was locked; and the cause of the locking.

If you select data which is locked by a migration event, the Release/Reset Confirmation window appears:

```

17:03:37      ***** PREDICT APPLICATION CONTROL *****      2000-03-03
User SAGU              - Release Locked Data -

+-----+-----+-----+-----+
|                                     |                   |               |               |
|               --- Release/Reset/Undo Confirmation ---   |                   |               |               |
|                                     |                   |               |               |
|   Migration Event record was locked by User UKMJ           |   at TID DAEETCAV |               |               |
|   on 2001-05-03 10:14:05                               |                   |               |               |
|                                     |                   |               |               |
|   Event ..... UKMJ_TESTING_UNDO_002                     |                   |               |               |
|   Application .. UKMJ_APPLICATION                         |                   |               |               |
|   From Status .. UKMJ_TEST_1                             |                   |               |               |
|   To Status .... UKMJ_PRODUCTION                         |                   |               |               |
|   Reason ..... Migration                                 |                   |               |               |
|   Step Number .. 6 - Versions Copied                     |                   |               |               |
|                                     |                   |               |               |
|   Enter 'RELEASE' to unlock, 'RESET' to reset, 'UNDO' to |   undo emigration  |               |               |
|   or '.' to Exit ... _____                               |                   |               |               |
|                                     |                   |               |               |
+-----+-----+-----+-----+

                Mark Selection, Enter Number or 'T' (Top) __

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
                Help Menu Exit                                Canc
    
```

It is similar to the Display Locked Data window because it provides the following information: the event that caused the locking; the origin and the destination statuses; and the number and description of the step reached by the event. You can release the locked data or reset / undo the migration event. The resetting is described in section Reset a Migration Event.

3. On either the Release or Release/Reset Confirmation window

- To release the locked data, enter RELEASE.
- To exit the window and display the Release Locked Data screen again without unlocking the data, enter a period (.), or press PF3 or PF12.

When you enter RELEASE, the Release Locked Data screen appears. The layout of the screen depends on the type of data being released.

If data locked by a migration event is being released, the screens look like this:

```

10:21:01          ***** PREDICT APPLICATION CONTROL *****          2001-05-03
User UKMJ          - Release Locked Migration Event Records -

Event ..... UKMJ_TESTING_UNDO_001
Application .. UKMJ_APPLICATION
From Status .. UKMJ_DEVELOPMENT          LIB .. UKMJD23 ( 164,00247)
To Status .... UKMJ_TEST_1              LIB .. UKMJT23 ( 164,00247)

Object           Object type          Vers.    Action
JULES1           Program                Saved deactivated
JULES1           Program                Catlg deactivated
JULES1           Program                0003 Deleted
JULES1           Program                0002 Restored in PCF
JULES2           Program                Saved deactivated
JULES2           Program                Catlg deactivated
JULES2           Program                0003 Deleted
JULES2           Program                0002 Restored in PCF
JULES3           Program                Saved deactivated
JULES3           Program                Catlg deactivated
JULES3           Program                0003 Deleted
JULES3           Program                0002 Restored in PCF
JULES4           Program                Saved deactivated
MORE.....
    
```

```

10:22:05          ***** PREDICT APPLICATION CONTROL *****          2001-05-03
User UKMJ          - Release Locked Migration Event Records -

Event ..... UKMJ_TESTING_UNDO_001
Application .. UKMJ_APPLICATION
From Status .. UKMJ_DEVELOPMENT          LIB .. UKMJD23 ( 164,00247)
To Status .... UKMJ_TEST_1              LIB .. UKMJT23 ( 164,00247)

Object                Object type          Vers.    Action
JULES4                Program              0003 Deleted
JULES4                Program              0002 Restored in PCF
UKMJ_PREDICT_APPLICATION Dictionary          Closed
UKMJ_TESTING_UNDO_001 Migration Event      Backed Out
UKMJ_APPLICATION      Application          Unlocked

MORE....

```

The screens are similar to the Display Locked Migration Event Data screen with the exception that, in the rightmost column, actions performed on the entities are listed rather than the status of the entities.

- To scroll through the complete list of entities, press ENTER.
- To interrupt the unlocking and to return to the Release Locked Data screen enter a period (.) or press PF3.

Release Locked Data screen displays one of the following messages:

- "... data released", if the selected data was released;
- "... was not released", if some of the selected data was not released.

Reset a Migration Event

When a migration event is reset, the following occurs:

- The step number of the event is reset to 1.
- The audit report is deleted.

If the event is then resubmitted, the data locked by it is released and the event is immediately restarted from the beginning. Since the application remains locked between the resetting and the resubmission, the state of the application's compartment will be the same at both submissions. It can, however, occur that the states of the compartments of the steplib applications or application Predict are different at the two submissions. Also, the states of any migration may change from the first submission to the second.

To reset a migration event, use the following procedure:

1. Enter Code R (Release Locked Data) on the Locked Data Maintenance menu.

A Release Locked Data screen appears.

- 2. On the Release Locked Data screen, select the migration event to be reset either by entering an R or placing the cursor in the "C" column, or by entering the number (from the "Nr" column) in the Mark Selection field.

A Release/Reset Confirmation window for the migration event appears:

```
17:03:37          ***** PREDICT APPLICATION CONTROL *****          2000-03-03
User SAGU                - Select Locked Data -

+-----+
|                                     |
|          --- Release/Reset/Undo Confirmation ---          |
|                                     |
| Migration Event record was locked by User UKMJ          at TID DAEETCAV |
| on 2001-05-03 10:26:13                                     |
|                                     |
| Event ..... UKMJ_TESTING_UNDO_001                       |
| Application .. UKMJ_APPLICATION                           |
| From Status .. UKMJ_DEVELOPMENT                          |
| To Status .... UKMJ_TEST_1                                |
| Reason ..... Migration                                    |
| Step Number .. 2 - Versions Created                       |
|                                     |
| Enter 'RELEASE' to unlock, 'RESET' to reset, 'UNDO' to undo emigration |
| or '.' to Exit ... _____                               |
|                                     |
+-----+

Mark Selection, Enter Number or 'T' (Top) __

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
Help Menu Exit                                     Canc
```

It is similar to the Display Locked Data window. It provides information about: the event that did the locking; the origin and the destination statuses; the number and description of the step reached by the event.

You have the option of releasing the locked data or reset the migration event.

- 3. Enter RESET.

A Special Event Processing screen appears:

```

17:25:53          ***** PREDICT APPLICATION CONTROL *****          2000-03-03
User SAGU                - Special Event Processing -

Event ..... CLOVER-DEV0-CONTROL-1

Date ... 97-03-03 16:58:47 Tot Lines ... 20          1625          Page ... 1
Del Line 0100 PAC6902: (A) Migration initiated at 97-03-03 16:58 by EDSW
Del Line 0100 PAC6905: (A) ACF System File assignment .. (222,144)
Del Line 0100 PAC6905: (A) PCF System File assignment .. (222,145)
Del Line 0100 PAC6920: (A) COPY Objects Online
Del Line 0100 PAC6904: (A) Applymods in effect for Migration ... (14)
Del Line 0100 PAC7020: (A) Application Lock applied at 97-03-03 16:58.
Del Line 0000 PAC6902: (A) Create Version initiated at 97-03-03 16:58
Del Line 0000 PAC7057: (A) ES_Z_P04.0001 (Progrm) -- created.
Del Line 0000 PAC7057: (A) ES_Z_P05.0001 (Progrm) -- created.
Del Line 0000 PAC7057: (A) ES_Z_P09.0002 (Progrm) -- created.
Del Line 0000 PAC7057: (A) ES_Z_P11.0001 (Progrm) -- created.
Del Line 0000 PAC7057: (A) ES_Z_N99.0001 (Subpgm) -- created.
Del Line 0000 PAC7057: (A) ES_Z_L03.0001 (Local) -- created.
Del Line 0000 PAC7053: (A) 6 Natural objects processed.
Del Line 0000 PAC6903: (A) Create Version completed at 1998-03-03 16:58
Del Line 0100 PAC6902: (A) Precomple initiated at 1998-03-03 16:58:56
Del Line 0100 PAC6906: (A) Compile List deleted at 1998-03-03 16:58:56
MORE

```

The Special Event Processing screen lists the actions being taken to reset the migration event.

4. Press ENTER to scroll.

```

17:27:02          ***** PREDICT APPLICATION CONTROL *****          2000-03-03
User SAGU                - Special Event Processing -

Event ..... CLOVER-DEV0-CONTROL-1

Date ... 97-03-03 16:58:47 Tot Lines ... 11          1730          Page ... 2
Del Line 0100 PAC6902: (A) PostCmple initiated at 1998-03-03 16:59:29
Del Line 0100 Errors with Compile
Del Line 0100 Object      Error Line
Del Line 0100 -----
Del Line 0100 ES_Z_P04 0924 0130
Del Line 0100 Subroutine, GDA or external report not found.
Del Line 0100 ES_Z_P05 0924 0130
Del Line 0100 Subroutine, GDA or external report not found.
Del Line 0100 PAC7067: (C) 00000002 errors in Compile phase.
Del Line 0100 PAC7066: (A) 00000004 Natural objects successfully compiled.
Del Line 0100 PAC6903: (A) Compiling completed at 1998-03-03 16:59:30

Event CLOVER-DEV0-CONTROL-1 has been RESET -- Audit Report Flushed
MORE

```

When the migration event has been reset, a message informs you that the event has been reset and the audit report has been flushed.

Select Locked Data

From the Locked Data Menu, enter Code S (Select Locked Data).

A Select Locked Data screen appears:

```

17:28:47          ***** PREDICT APPLICATION CONTROL *****          2000-03-03
User SAGU                               - Select Locked Data -

C Nr Name of Locked Entity              Lock Type              Reason              User ID
-----
_  1 CLOVER                             Application            Migration            EDSW
_  2 FURZE                               Application            Migration            SACUBAT
_  3 HEATHER-DEV0-CONTROL-1             Migration Event       MODIFY              SAGU

Mark Selection, Enter Number or 'T' (Top) __

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit          --          +          >      Canc
    
```

This screen lists the following information: the name and the type of a locked entity; the cause of the locking (modification, deletion, or migration); the user ID of the user who locked the entity. Each entry is assigned a number on the screen ("Nr" column) and an input field is provided for selecting an entry ("C" column).

Press PF11 to display the ID of the terminal from which the data was locked and the date and time at which the data was locked. Press PF10 to again display the cause of the locking and the user ID.

The entries on the Select Locked Data screen are listed in alphabetical order by user ID.

To display information about an entity listed on the Select Locked Data screen, enter the number of the entity (from the "Nr" column) in the Mark Selection field or enter D in the "C" column next to the entry.

Selected locked data can be released by marking entries of the Selected Locked Data screen with R the "C" column.

Undo a Migration Event

This function is applicable to migrations to test or production and to retirements from test or production, provided the event has reached stage 6 and have not been unlocked.

When a migration event is undone, the following occurs:

- The migration steps are reversed and ACF data is updated.
- The event is unlocked.

To undo a migration event, use the following procedure:

1. Enter Code R (Release Locked Data) on the Locked Data Maintenance menu.

A Release Locked Data screen appears.

2. On the Release Locked Data screen, select the migration event to be undone either by entering an R or placing the cursor in the "C" column, or by entering the number (from the "Nr" column) in the Mark Selection field.

A Release/Reset/Undo Confirmation window for the migration event appears:

```

0:14:20          ***** PREDICT APPLICATION CONTROL *****          2001-05-03
User UKMJ              - Release Locked Data -

+-----+
|                                     |
|          --- Release/Reset/Undo Confirmation ---          |
|                                     |
| Migration Event record was locked by User UKMJ          at TID DAEETCAV |
| on 2001-05-03 10:14:05                                     |
|                                     |
| Event ..... UKMJ_TESTING_UNDO_002                       |
| Application .. UKMJ_APPLICATION                           |
| From Status .. UKMJ_TEST_1                               |
| To Status ... UKMJ_PRODUCTION                           |
| Reason ..... Migration                                   |
| Step Number .. 6 - Versions Copied                       |
|                                     |
| Enter 'RELEASE' to unlock, 'RESET' to reset, 'UNDO' to undo emigration |
| or '.' to Exit ... _____                               |
|                                     |
+-----+

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help      Exit                                     Canc
    
```

It is similar to the Display Locked Data window. It provides information about:

- the event that did the locking;
- the origin and the destination statuses;
- the number and description of the step reached by the event.

You have the option of releasing the locked data, resetting the migration event or undoing the migration event.

Enter UNDO.

```
10:45:52          ***** PREDICT APPLICATION CONTROL *****          2001-05-03
User UKMJ              - Event Migrate Processing -

Event Name ... UKMJ_TESTING_UNDO_002
Application .. UKMJ_APPLICATION
From Status .. UKMJ_TEST_1                      Lib .UKMJT23 (00164,00247)
To Status ... UKMJ_PRODUCTION                    Lib .* PAA * (00164,00239)
PAC6902: (A) Unlock      initiated at 2001-05-03 10:45:52
PAC7053: (A) 4 NATURAL objects processed.
PAC6914: (W) Application Lock was removed at 2001-05-03 10:45:52
PAC6903: (A) Unlock      completed at 2001-05-03 10:45:52

MORE....
```

When the migration event has been undone, a message informs you that the event has been undone.

Object Version Maintenance

The object maintenance facilities allow PAC administrators to

- view and purge change control logs - i.e., the records of migrations of individual objects to and from A (M) status;
- view which parts of Natural objects are in the PCF system file and deactivate the objects - i.e. delete their copies from the PCF;
- view and purge object audit history - i.e., the records of the individual objects in migrations;
- view and purge logged object versions - i.e., the records of individual object removals (retirement or purging from CONTROL or retirement or purging from ARCHIVE);
- view and purge objects in CONTROL or ARCHIVE.

To access the object maintenance functions, enter Code O on the Administrator Functions menu.

The Object Version Maintenance menu appears:

```

18:47:45          ***** PREDICT APPLICATION CONTROL *****          2000-04-03
User SAGU          - Object Version Maintenance -

                Code  Function
                ----  -
                C    Change Control Logs
                D    Deactivate Object Versions
                H    Object Version Audit History
                L    Logged Object Versions
                P    Purge Object Versions
                ?    Help
                .    Exit
                ----  -

Code ... _

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit                                     Canc

```

This chapter covers the following topics:

- Change Control Logs
- Select Closed Change Log from List
- Deactivate Object Versions

- Deactivate Objects from Selection List
 - Object Version Audit History
 - Purge Object Version Audit History
 - Versioned Object Logs
 - Select Object Version Log from List
 - Display Object Version Log
 - Purge Object Version Log
 - Purge Object Version
-

Change Control Logs

Change control logs are records of individual objects to be migrated to and from a (M) status. A change control log refers either to a versioned object migrated to a (M) status or to a versioned object from a (M) status or to several like named objects, the first of which was migrated to, and the second migrated from a (M) status.

A change control log contains

- the name of an application;
- the name of a maintenance status;
- the name of a Natural object or the number of an error message;
- a designation of the object's type.

It may contain

- the identifier of a maintenance request.

The check-out / check-in information contains

- either an object's check-out data
- or an object's check-in data.

An object's check-out data includes

- the number of the version (migrated to maintenance);
- the library name and the database and file numbers of the Natural location of the migration;
- the time of the migration;
- the user ID of the initiator of the migration;
- the terminal ID of the terminal from which the migration was initiated.

An object's check-in data includes

- the number of the version (migrated from maintenance or retired to maintenance);
- the library name and the database and file numbers of the Natural location of the migration, whereby the string ">Cancel<" takes the place of the library name, if the object was retired from the maintenance migration;
- the time of the migration or retirement;
- the user ID of the initiator of the migration or retirement;
- the terminal ID of the terminal from which the migration or retirement was initiated.

A change control log is defined as closed if it contains the check-in data of an object. It is defined as open if it is not closed. Only closed change control logs can be viewed or purged in the Administration Functions subsystem of PAC. Both the open and the closed change control logs can be viewed; neither can be purged in the Reporting and Maintenance subfunctions subsystem of PAC.

To access the change control logs maintenance functions, enter Code C on the Object Version Maintenance screen.

Select Closed Change Log from List

The Closed Change Control Logs Menu appears:

```

18:51:18          ***** PREDICT APPLICATION CONTROL *****          2000-04-03
User SAGU          - Closed Change Control Logs Menu -

                Code  Sub-Function
                ----  -
                R    Select Logs by Request ID
                S    Select Logs by Object Name
                U    Select Logs by Check-Out User
                ?    Help
                .    Exit
                ----  -

Code ..... _
Application .... _____
Object Name .... _____
Library Name ... _____ DBnr ... ____ Fnr ... ____
Request / User . _____

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit                                     Canc
    
```

To select change control logs for viewing or purging, enter

- one the following codes:
 - Code R to obtain a list of logs referring to specified maintenance requests and primarily sorted by the IDs of the requests referred to;

- Code S to obtain a list of logs referring to specified maintenance requests and primarily sorted by the IDs of the requests referred to;
- Code U to obtain a list of logs created at migrations initiated by specified users and primarily sorted by the check-out user IDs.
- the name of an application - optional with Code R, required with Code S;
- a range of object names - assumed "*" if left blank;
- optionally the library name and the database and file numbers of a Natural location to be matched by those in the check-in data of the selected logs;
- a range of request IDs with Code R or S, a range of user IDs with Code U - either assumed "*" if the "Request/User" field is left blank.

If there is a change control log which satisfies the selection criteria, a Change Control Log Selection List appears:

```

19:13:57          ***** PREDICT APPLICATION CONTROL *****          2000-04-03
User SAGU          - Change Control Log Selection List -

PURGE Log *
C Nr Object      Library  OutVer OutDate User      InVer InDate      Request ID
- - - - -
_ 1 ES_Z_C03 >cancel<    1 19980117 EDSW      1 19980118
_ 2 ES_Z_L01 ES1                1 19980117 EDSW      1 19980118
_ 3 ES_Z_L01 >cancel<    1 19980117 EDSW      1 19980118
_ 4 ES_Z_L02 ES1                1 19980117 EDSW      1 19980118
_ 5 ES_Z_L02 >cancel<    1 19980117 EDSW      1 19980118
_ 6 ES_Z_N02 >cancel<    1 19980117 EDSW      1 19980118
_ 7 ES_Z_P07 ES1                1 19980117 EDSW      2 19980117 REQUEST002
_ 8 ES_Z_P07 >cancel<    2 19980117 EDSW      2 19980118
_ 9 ES_Z_P08 ES1                1 19980117 EDSW      1 19980117 REQUEST002

Mark Selection, Enter Number or 'T' (Top) __

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit                --                +                Canc
    
```

If no change control log satisfies the selection criteria, a message appears on the original screen.

If no application name is specified or "*", "<", or ">" occurs in the Application field, an application selection list is displayed, allowing you to select an application.

If no request ID is specified with Code R, all logs satisfying the other selection criteria and each referring to some maintenance request are listed. If no request ID is specified with Code S, the selection is not restricted on the account of the Request/User field and logs which do not refer to any maintenance request may also be listed.

If no user ID is specified with Code U, all logs containing check-out data are listed.

The C fields of the Change Control Log Selection List screen can take as values - in addition to " ", "?" and "." - S(select), D(isplay), and P(urge).

S(select) returns the Closed Change Control Logs Menu with its fields filled with the data of the selected log.

D(isplay) produces a Display Change Control Log screen:

```

19:18:49          ***** PREDICT APPLICATION CONTROL *****                2000-04-03
User: SAGU          - Display Change Control Log -

Request Id ... REQUEST002                      Modified: 1998-01-17 by EDSW
Application .. CLOVER
Object ..... ES_Z_P07 (Progrm)
Status ..... MAI1
Access type .. (Update)

          --- Check-Out/Check-In Information ---
          Version  Library  DBnr  Fnr  UserID  Date-Time          TermID
          -----  -
Check-Out ....   1    ES1    222  127  EDSW   1998-01-17 17:51:11 MSN1#EC6
Check-In .....   2    ES1    222  127  EDSW   1998-01-17 18:11:23 MSN1#EC6

Notes .....

Additional Options ... N

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help      Exit  Opts  Purge                                Canc
    
```

The type designation in parentheses in the Object field belongs to the migrated object if the log was closed by a retirement; it belongs to the migrated object if the log was closed by a migration.

The Access type field can have as values "(Open)", "(Update)" and "(Access)". Only "(Open)" can occur in an open log, only "(Update)" or "(Access)" in a closed one. "(Update)" indicates that the log was closed by a migration and the migrated object is distinct from the migrated; in other closed logs the value is "(Access)".

P(urge) produces a Purge Confirmation window:

```

19:13:57          ***** PREDICT APPLICATION CONTROL *****          2000-04-03
User SAGU          - Change Control Log Selection List -

PURGE Log *
C Nr Object +-----+-----+st ID
- - - - - |             |-----|
- 1 ES_Z_CO |             |             |
- 2 ES_Z_LO | Application .. CLOVER |             |
- 3 ES_Z_LO |             |             |
- 4 ES_Z_LO | The Purge option has been invoked for Change |             |
- 5 ES_Z_LO | Control Logs for this Application. The |             |
- 6 ES_Z_NO | maintenance activity of the object(s) selected |             |
p 8 ES_Z_PO | will be removed. |             | 02
- 9 ES_Z_PO |             |             |
          | Enter 'CONFIRM' or press PF5 to Purge or '.' |             | 02
          | to Exit ... _____ |             |
          +-----+-----+
          Mark Selection, Enter Number or 'T' (Top) __

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit          --          +          Canc
    
```

Enter CONFIRM or press PF5 to purge the change control logs marked with "P"s in the Change Control Log Selection List. Press PF3 to return to the Closed Change Control Logs Menu without purging the logs.

Deactivate Object Versions

To access the object deactivation functions, enter Code D on the Object Version Maintenance screen.

The Deactivate Object Version Menu appears:

```

22:53:10          ***** PREDICT APPLICATION CONTROL *****          2000-04-03
User SAGU          - Deactivate Object Version Menu -

                Code  Sub-Function
                -----
                D    Deactivate Versioned Object
                ?    Help
                .    Exit
                -----

Code ..... _          Selection List ... Y
Application .... _____
Object Name .... _____
Object Type .... _____

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit                                     Canc
    
```

To select objects for viewing or deactivation, enter

- Code D;
- Selection List Y;
- the name of an application;
- a range of object names - assumed "*" if left blank;
- a (possibly empty) string of Natural object type designations consisting of one letter.

Deactivate Objects from Selection List

If there is an object which satisfies the selection criteria, a Deactivate Object Version Selection List appears:

```

22:54:22          ***** PREDICT APPLICATION CONTROL *****          2000-04-03
User SAGU          - Deactivate Object Version Selection List -

C Nr Object Name          Object Type          S/C State
-----
_  1 ES_Z_A01             Parameter           S/C
_  2 ES_Z_C03             Copycode            S
_  3 ES_Z_L03             Local               S/C
_  4 ES_Z_N02             Subprogram          S/C
_  5 ES_Z_P07             Program             S/C
_  6 ES_Z_P11             Program             Deactivated

Mark Selection, Enter Number or 'T' (Top) __

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit          --          +          Canc
    
```

This is a list of Natural object names, accompanied by type designations rather than a list of versioned objects. For each entry, there can be many like named versioned objects. The entry stands for the one with the highest number, the only one which can normally be in the PCF system file.

If no object satisfies the selection criteria, a message appears on the original screen.

If no application name is specified or if "*", "<", or ">" occurs in the Application field, an application selection list is displayed letting one choose an application.

"S/C", "S", "C", or blank in an S/C field of a Deactivate Object Version Selection List screen indicates that copies of both the source of the object and its loadable part, only that of its source, only that of its loadable part, or neither of these is in the PCF system file.

"Deactivated" in a State field of a Deactivate Object Version Selection List screen indicates that no copy of the highest numbered version of an object referred to in the entry is present in the PCF system file.

The C fields of a Deactivate Object Version Selection List screen can take the value - in addition to " ", "?" and "." - D(eactivate).

D(eactivate) produces a Deactivate Confirmation window:

```

19:13:57          ***** PREDICT APPLICATION CONTROL *****          2000-04-03
User SAGU          - Deactivate Object Version Selection List -

PURGE Log *
C Nr Object +-----+
- - - - - |           --- Deactivate Confirmation ---           |--
_ 1 ES_Z_CO |
_ 2 ES_Z_LO | Application .. HEATHER                               |
_ 3 ES_Z_LO |
_ 4 ES_Z_LO | The Deactivate option has been invoked for         |
_ 5 ES_Z_LO | Objects in this Application.                         |
_ 6 ES_Z_NO | maintenance activity of the object(s) selected     |
p 8 ES_Z_PO | will be removed.                                   |
_ 9 ES_Z_PO |
          | Enter 'CONFIRM' or press PF5 to Deactivate or '.' |
          | to Exit ... _____                          |
          +-----+
          Mark Selection, Enter Number or 'T' (Top) __

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit          --          +          Canc
    
```

Enter CONFIRM or press PF5 to deactivate the objects marked with D's in the Deactivate Object Version Selection List. Press PF3 to return to the Deactivate Object Version Menu without deactivating the objects.

If the Selection List field of the Deactivate Object Version Menu is set to N rather than Y then objects are selected just as they would be selected with but instead of listing them PAC immediately produces a Deactivate Confirmation window and upon confirmation deactivates all selected objects.

Object Version Audit History

An object audit version history record is a record in the ACF system file which contains information about the migrated object. When an object is migrated to test, production or maintenance, an object-status link (record) is created in the ACF system file; this makes the object "known by PAC to be in the migration". If the object is overwritten during the migration with another object of the same application or retired from the migration, the object-status link becomes an audit version history record. Such a version audit history record stays in the ACF system file as long as the object or its archive stays in the application - unless an administrator purges the record, using the facility described in this section.

To access the object version audit history maintenance functions, enter Code H on the Object Version Maintenance screen.

The Purge Object Version Audit History Menu appears:

```

22:56:26          ***** PREDICT APPLICATION CONTROL *****          2000-04-03
User SAGU        - Purge Object Version Audit History Menu -

                Code  Sub-Function
                ----  -
                P    Purge Object Version Audit History
                ?    Help
                .    Exit
                ----  -

Code ..... _           Selection List ... Y
Application ... _____
Status ..... _____
Object ..... _____
Object Type ... _____

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit                               Canc
    
```

To select audit history records for viewing or purging, enter

- Code P;
- the name of an application;
- the name of a status;
- a range of object names - assumed "*" if left blank;
- a (possibly empty) string of one letter Natural object type designations: "E" for error messages, "V" for views, or "R" for rules.

If there is an audit history record satisfying the selection criteria then an Audit History Selection List appears:

```

22:59:02          ***** PREDICT APPLICATION CONTROL *****          2000-04-03
User SAGU          - Audit History Selection List -

Application ... FURZE
Status ..... AS-MAI7
C Nr Object Name          Object Type Version Effective Date
-----
_  1 AS_Z_A01             Parameter    0001  1998-03-27  13:21:42
_  2 AS_Z_A02             Parameter    0001  1998-03-27  13:21:41
_  3 AS_Z_N99             Subprogram   0001  1998-02-15  19:24:56
_  4 AS_Z_P01             Program     0003  1998-03-04  13:51:01
_  5 AS_Z_P01             Program     0003  1998-03-04  13:47:49
_  6 AS_Z_P01             Program     0003  1998-02-15  19:54:48
_  7 AS_Z_P03             Program     0002  1998-02-15  19:44:49
_  8 AS_Z_P03             Program     0001  1998-02-15  19:36:26
_  9 AS_Z_P03             Program     0002  1998-02-15  19:31:35
_ 10 AS_Z_P04             Program     0002  1998-03-15  20:29:28
_ 11 AS_Z_P04             Program     0001  1998-02-20  11:19:35
_ 12 AS_Z_P04             Program     0001  1998-02-15  19:28:34

                Mark Selection, Enter Number or 'T' (Top) __

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit          --          +          SDate Canc
    
```

If no audit history record satisfies the selection criteria, a message appears on the original screen.

If no application name is specified or if "*", "<", or ">" occurs in the Application field, an application selection list is displayed, allowing you to select an application.

If an application has been specified but no status has or "*", "<", or ">" occurs in the Status field, an application status-link selection list is displayed, allowing you to select a link, which defines a migration.

If the Object Type field has been left blank or contains an "*", the selection of audit history records is not restricted on its account. This is the only way to list the audit history records of foreign objects.

The last column of an Audit History Selection List screen can be switched from "Effective Date" to "Superseded Date" by pressing PF11 and PF10, respectively.

There can be more than one entry for a single versioned object in an Audit History Selection List. This occurs if the object has been migrated to the migration several times.

The C fields of a Deactivate Object Version Selection List screen can take the value - in addition to " ", "?" and "." - P(urge).

Purge Object Version Audit History

P(urge) produces a Purge Confirmation window:

```

22:59:02          ***** PREDICT APPLICATION CONTROL *****          2000-04-03
User SAGU          - Audit History Selection List -

Application+-----+
Status ....|          --- Purge Confirmation ---          |
C Nr Object|          Application .. FURZE          |          Date
- - - - -|          Status ..... AS-MAI7          |-----
_ 1 AS_Z_A|          The Purge option has been invoked for Object |          -03-27 13:21:42
_ 2 AS_Z_A|          Version Audit History in the above Application |          -03-27 13:21:41
_ 3 AS_Z_N|          Status Link.          |          -02-15 19:24:56
_ 4 AS_Z_P|          Enter 'CONFIRM' or press PF5 to Purge or '.' |          -03-04 13:51:01
_ 5 AS_Z_P|          to Exit ... _____ |          -03-04 13:47:49
_ 6 AS_Z_P|          |          -02-15 19:54:48
_ 7 AS_Z_P|          |          -02-15 19:44:49
_ 8 AS_Z_P|          |          -02-15 19:36:26
_ 9 AS_Z_P|          |          -02-15 19:31:35
_10 AS_Z_P|          |          -03-15 20:29:28
_11 AS_Z_P+-----+-----+-----+-----+-----+-----+-----+-----+
_12 AS_Z_P04          Program          0001 1998-02-15 19:28:34

          Mark Selection, Enter Number or 'T' (Top) __

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit          --          +          SDate Canc
    
```

Enter CONFIRM or press PF5 to purge the audit history records marked with P's in the Audit History Selection List. Press PF3 to return to the Purge Object Version Audit History Menu without purging the audit history records.

Versioned Object Logs

A versioned object log is a record in the ACF system file containing information about the previous existence of an object in an application. When an object migrated to CONTROL, an object record is created in the ACF system file. If the object is retired or purged from CONTROL or from ARCHIVE, its record is deleted from the ACF system file or its record is recorded on an object log. (The latter occurs if the Versioned Object Log option of the application has been set to "Y".) Such an object log stays in the application as long as an administrator does not purge it, using the facility described in this section.

To access the object purge logs maintenance functions, enter Code L on the Object Maintenance screen.

The Versioned Objects Log Maintenance Menu appears:

```

23:01:11          ***** PREDICT APPLICATION CONTROL *****          2000-04-03
User SAGU          - Versioned Objects Log Maintenance Menu -

                Code  Sub-Function
                -----
                D   Display Versioned Object Log
                H   Hardcopy Versioned Object Log
                S   Select Versioned Object Log
                P   Purge Versioned Object Log
                ?   Help
                .   Exit
                -----

Code ..... _
Application .... _____
Object Name .... _____
Version From ... ____          Version To ... ____
Object Type .... _____

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit                                     Canc
    
```

To select object purge logs for displaying, hardcopying, or purging, enter

- Code S;
- the name of an application;
- a range of object names - assumed "*" if left blank;
- a range of object version numbers - assumed from 1 to 9999 if both fields are left blank;
- a (possibly empty) string of one letter Natural object type designations, "E" for error messages, "V" for views, or "R" for rules.

Select Object Version Log from List

If there is an object log which satisfies the selection criteria, an Object Version Log Selection List appears:

```

23:03:27          ***** PREDICT APPLICATION CONTROL *****          2000-04-03
User SAGU          - Object Version Log Selection List -

C Nr Object Name          Object Type          Ver  Purge Date-Time
-----
_  1 ES_Z_N02             Subprogram           0002 1997-04-01 20:15:56
_  2 ES_Z_P07             Program              0002 1997-04-01 20:15:56

Mark Selection, Enter Number or 'T' (Top) __

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit          --          +          Canc

```

If no object log satisfies the selection criteria then a message is superimposed on the original screen.

If no application name is specified or "*", "<", or ">" occurs in the Application field then an application selection list is displayed letting one choose an application.

If the Object Type field has been left blank or contains an "*" then the selection of object purge logs is not restricted on its account. This is the only way of getting the foreign object purge logs listed.

The C fields of an Object Version Log Selection List screen can take as values - in addition to "?" and "." - D(isplay), H(ardcopy), S(elect), and P(urge).

S(elect) returns the Versioned Objects Log Maintenance Menu with its fields filled with the data of the selected log.

Display Object Version Log

D(isplay) produces a Display Object Purge Log screen:

```

23:04:11          ***** PREDICT APPLICATION CONTROL *****          2000-04-03
User SAGU          - Display Object Version Log -

Application ... HEATHER
Object ..... ES_Z_N02.0002 (Subprogram)
Purged ..... 1998-04-01 20:15:56 By .. EDSW          at .. MSN1#EC7
Saved ..... 1998-01-18 22:17:15
Cataloged .... 1998-01-18 22:17:15
Migration Event .. HEATHER-DEV0-CONTROL-1
Created ..... 1998-01-18 22:17:01

          --- Development Source Directory Information ---
Library .... ES0          User-ID ..... EDSW          Saved .. 1998-01-18 22:16:17
Tp-System .. RTIO          Terminal-ID .. MSN1#EC1
Op-System .. BS2000/OSD Transaction .. C.NRT227
NAT-Ver .... 2.2.7          Mode ..... Structured
Size in ESIZE ..... 653          Bytes

Additional Options ... N

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit  Opts                                Canc

```

The Display Object Version Log screen is similar to the Display Object Version screen for the object before its retirement or purging. There are two additional option: Dates and Audit Report. Audit Report is produced by the activity that retired or purged the object from CONTROL or ARCHIVE.

Purge Object Version Log

P(urge) produces a Purge Confirmation window:

```

23:03:27          ***** PREDICT APPLICATION CONTROL *****          2000-04-03
User SAGU          - Object Version Log Selection List -

C Nr Object +-----+ Date-Time
- - - - - |          |-----+
_ 1 ES_Z_N0 |          | 97-04-01 20:15:56
_ 2 ES_Z_P0 | Object ... ES_Z_N02 | 997-04-01 20:15:56
           | Version .. 0002   |
           | The Purge option has been invoked. |
           | Enter 'CONFIRM' or press PF5 to Purge or '.' |
           | to Exit ... _____ |
           +-----+

                          Mark Selection, Enter Number or 'T' (Top) __

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit          --          +          Canc

```

Enter CONFIRM or press PF5 to purge the object purge logs marked with P's in the Object Version Log Selection List. Press PF3 to return to the Versioned Objects Log Maintenance Menu without purging the logs.

To display, hardcopy, or purge a single object purge log from the Object Purge Logs Menu, enter

- Code D, H or P;
- the name of an application;
- a range of object names - assumed "*" if left blank;
- a range of object version numbers - assumed from 1 to 9999 if both fields are left blank;
- a (possibly empty) string of Natural object type designations consisting of one letter: "E" for error messages, "V" for views or "R" for rules.

If there are no logs satisfying the specified criteria then a message is superimposed on the original screen.

If there is exactly one log satisfying the specified criteria, it is displayed or hardcopied with Code at "D" or "H". For [Code] = "P", a Purge Confirmation window appears.

If there is more than one log satisfying the specified criteria, a modified S(elect) is applied instead. The modification consists in the restriction of the set of functions applicable to the selected logs to {D}, {H}, or {P}.

Purge Object Version

Objects can be removed from CONTROL

- by retirement from CONTROL;
- by archiving - i.e., by finalizing a completed CONTROL to ARCHIVE migration event;

- by purging from CONTROL, which is described in this section.

The removability of an object from a CONTROL status is affected by the values of the Minimum Current Versions and Current Retention Period fields of the application.

Note:

If applymod 23 is not active, an object cannot be removed from a CONTROL compartment if it is known to have been migrated to test, production, or maintenance and is not known to have been subsequently overwritten there or retired to it. An object whose removal from CONTROL is not allowed for any of these reasons.

- will be passed over by any submitted retirement from CONTROL event;
- will be passed over at the finalization of any archiving event;
- will be neither presented on any Purge Object Version Selection List nor purged without being so presented.

When an object is archived, it is removed from CONTROL, and its record in the ACF system file is logged. While the logged object remains in the application (and the work file to which the object has been copied remains available), the object itself can be restored. If the token is deleted, the object is no longer restorable. The deletion of a logged object from an application causes its "removal from ARCHIVE". It can be achieved

- by retirement from ARCHIVE;
- by purging from ARCHIVE, which is described in this section.

The removability of an object from ARCHIVE in the above sense is affected by the values of the Minimum Archive Versions and Archive Retention Period fields of the application. A logged object whose deletion is not allowed by either of the two values

- will be passed over by any submitted retirement from ARCHIVE event;
- will neither appear on any Purge (archived) Object Version Selection List nor be deleted without being so presented.

To access the object purging functions, enter Code P on the Object Version Maintenance screen.

The Purge Object Version Menu appears:

```

23:08:34          ***** PREDICT APPLICATION CONTROL *****          2000-04-03
User SAGU          - Purge Object Version Menu -

                Code  Sub-Function
                -----
                A   Purge Versioned Objects in Archive
                C   Purge Versioned Objects in Control
                ?   Help
                .   Exit
                -----

Code ..... _           Selection List ... Y
Application .... _____
Object Name .... _____
Version From ... ____           Version To ... ____
Object Type .... _____

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit                                     Canc
    
```

To select objects to be purged from CONTROL or ARCHIVE enter

- Code C or A;
- Selection List Y;
- the name of an application;
- a range of object names - assumed "*" if left blank;
- a range of object version numbers - assumed from 1 to 9999 if both fields are left blank;
- a (possibly empty) string of Natural object type designations consisting of one letter: "E" for error messages, "V"for views "R" for rules.

If there is an object version (for [Code] = "C") or object version (for [Code] = "A") which satisfies the selection criteria, a Purge Object Version Selection List appears:

```

23:09:55          ***** PREDICT APPLICATION CONTROL *****          2000-04-03
User SAGU          - Purge Object Version Selection List -

  C Nr Object Name                Object Type      Ver  Migration Date
  --- -- -
_  1 ES_FU_11                      View             0003 1998-03-12 14:33:55
_  2 ES_FU_11                      View             0002 1998-01-17 17:54:19
_  3 ES_FU_11                      View             0001 1998-03-12 13:48:34
_  4 ES_FU_12                      View             0001 1998-01-17 17:54:20
_  5 ES_Z_A01                      Parameter        0003 1998-01-18 22:19:11
_  6 ES_Z_A01                      Parameter        0002 1998-01-18 22:17:00
_  7 ES_Z_C03                      Copycode         0003 1998-01-18 22:19:11
_  8 ES_Z_C03                      Copycode         0002 1998-01-18 22:17:01
_  9 ES_Z_L03                      Local            0001 1998-03-12 14:29:28
_ 10 ES_Z_N02                      Subprogram       0003 1998-01-18 22:19:12
_ 11 ES_Z_P07                      Program          0003 1998-01-18 22:19:12
_ 12 ES_Z_P11                      Program          0001 1998-03-12 14:29:28
_ 13 FUSER-127-ES-0                View             0001 1998-03-12 15:42:59

                                Mark Selection, Enter Number or 'T' (Top) __

Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help  Menu  Exit          --          +          Canc
    
```

If no object of Control Status (for [Code] = "C") or object of Archive Status (for [Code] = "A") satisfies the selection criteria then a message is superimposed on the original screen.

If no application name is specified or "*", "<", or ">" occurs in the Application field then an application selection list is displayed letting one choose an application.

If the Object Type field has been left blank or contains an "*" then the selection of objects or tokens is not restricted on its account. This is the only way of getting the foreign objects listed.

The C fields of a Purge Object Version Selection List screen can take the value - in addition to " ", "?" and "." - P(urge).

P(urge) produces a Purge Confirmation window:

```

23:09:55          ***** PREDICT APPLICATION CONTROL *****          2000-04-03
User SAGU          - Purge Object Version Selection List -

  C Nr Object+-----+n Date
  - - - - - |          --- Purge Confirmation --- |-----
  _ 1 ES_FU_ |                               | 14:33:55
  _ 2 ES_FU_ | Application .. HEATHER          | 17:54:19
  _ 3 ES_FU_ |                               | 13:48:34
  _ 4 ES_FU_ | The Purge option has been invoked for Objects in | 17:54:20
  _ 5 ES_Z_A | this Application which have not been promoted to | 22:19:11
  _ 6 ES_Z_A | any Status and Objects which are currently in the | 22:17:00
  _ 7 ES_Z_C | Archive Status                    | 22:19:11
  _ 8 ES_Z_C |                               | 22:17:01
  _ 9 ES_Z_L | Enter 'CONFIRM' or press PF5 to Purge or '.'      | 14:29:28
  _10 ES_Z_N | to Exit ... _____          | 22:19:12
  _11 ES_Z_P |                               | 22:19:12
  _12 ES_Z_P+-----+ 14:29:28
  _13 FUSER-127-ES-0          View          0001 1998-03-12 15:42:59

          Mark Selection, Enter Number or 'T' (Top) __

Command====>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit          --          +          Canc
    
```

Enter CONFIRM or press PF5 to purge the objects whose entries are marked with P's in the Purge Object Version Selection List. Press PF3 to return to the Purge Object Version Menu without purging the logs.

If the Selection List field of the Purge Object Version Menu is set at N rather than Y then objects are selected just as they would be selected with Y; but instead of listing them, PAC immediately produces a Purge Confirmation window and, at confirmation, purges all selected objects or tokens.

Request Table Maintenance

The request table maintenance facility allows you to set up table entries and perform maintenance functions for maintenance requests.

These tables are used when maintenance requests are defined to PAC; they determine the sequence in which maintenance requests are retrieved for selective processing.

Tables are used to provide an interface between PAC maintenance requests and external tracking systems in the user's environment.

This chapter covers the following topics:

- Table Types
- Request Table Maintenance Entry Definitions
- Request Table Maintenance Sub-Functions
- Add Table Entry
- Display a Table Entry
- Modify a Table Entry
- Purge a Table Entry
- Select Table Entries

Table Types

PAC currently provides two table types: Status and Action.

Status and Action tables are used with maintenance requests to facilitate the documentation of problems in PAC. These tables are user-defined and should be derived from the external problem-tracking system currently in use by the user.

Once table definitions are added to PAC, and the user adds maintenance requests to PAC, the Status and Action attributes are validated against those Status and Action tables defined by the PAC administrator.

Status Table Examples

Code Status Text

OLE	Open
INI	Initial, new problem
CLO	Closed
INF	Inform user
WER	Waiting for additional error information
INC	Incomplete information given
QUE	Question

Note:

The only Status that cannot be deleted is CLO (Closed). A maintenance request with the Status of Closed can no longer be modified.

Action Table Examples**Code Action Text**

SRC	Source change
VER	Next version
DOC	Documentation change
MSC	Miscellaneous
HDW	Hardware problem
SFT	Software problem

Request Table Maintenance Entry Definitions

Request Table Maintenance Entries comprise the following attributes:

Attribute Description

Table Type	Table type Maintenance request table type Valid table types are Status Action
Text Code	Table text code A unique three-character identifier for a table entry.
Text Value	Table text value A unique description (up to 12 characters in length) for a table entry.
Text Sequence	Table text sequence number A sequence number (1-999) that allows you to specify the priority for the table entry; that is, the sequence in which maintenance requests appear in the Maintenance Request selection screen.
Notes	Comments about the specified table entry.
Message	Displays messages relevant to modifying table entries.

The following Status Table example shows how these attributes might be assigned:

Table Type: Status

Text Code	Text Value	Sequence Number
OPN	OPEN	20
CLO	CLOSED	30
INI	INITIAL	10
WAI	WAITING	50
USR	USER PROBLEM	70
VER	NEXT VERSION	45

Even though INI and OPN normally appear alphabetically after CLO, the sequencing facility allows you to see all open maintenance requests after the "Initial" but before "Closed". Then, within each of these classes (Initial, Open, Closed), you can assign priorities (1-999) to each maintenance request, followed by the actions.

Request Table Maintenance Sub-Functions

To access request table maintenance sub-functions from the Administrator Functions menu, enter Code T (Request Table Maintenance).

The Request Table Maintenance Menu appears:

```

23:08:34          ***** PREDICT APPLICATION CONTROL *****          2000-04-03
User SAGU          - Request Table Maintenance Menu -

                Code  Sub-Function
                -----
                A    Add Table Entry
                D    Display Table Entry
                M    Modiry Table Entry
                P    Purge Table Entry
                S    Select Table Entry
                ?    Help
                .    Exit
                -----

Code ..... _
Table Type ..... _____
Text Code ..... _____
Text Value ..... _____

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit                               Canc

```

You may add, display, modify, and purge table entries and select table entries from a list.

Add Table Entry

To add a table entry, enter on the Request Table Maintenance Menu:

- Code A (Add Table Entry)
- Table Type (STATUS or ACTION)
- Text Code (unique 3 character Text Code)
- Text Value (up to 12 characters)

Both the value of Text Code and Text Value can be subsequently used to specify the entry on the Request Table Maintenance Menu and the Status and Action values in maintenance requests. The Text Value will display the maintenance requests.

Neither a Text Code value nor a Text Value value can be shared by more than one entry of the same table.

Spaces in the Text Code field and in the Text Value field are considered equivalent to underscores and are automatically replaced by them. Lower case letters are replaced by their upper case equivalents in the Text Code field, but not in the Text Value field.

After values have been entered in the four fields, an Add Entry screen appears:

```

23:08:34          ***** PREDICT APPLICATION CONTROL *****          2000-04-03
User SAGU                - Add Entry -

Table Type ..... STATUS                               Modified:           by:

Text Code ..... CDE
Text Value ..... coding_____
Text Sequence .. _____

Notes: ..... _____
      _____
      _____

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit                                     Canc

```

The values of Text Code and Text Value can be changed from this screen.

A non-zero numerical value of Text Sequence must be entered for the entry to be added. This value will affect an order of maintenance request selection. Input to the Notes field is optional.

Press ENTER to add the entry and return to the Request Table Maintenance Menu.

Press PF3 to return to the Request Table Maintenance Menu without adding the entry.

Display a Table Entry

To display a table entry, enter on the Request Table Maintenance Menu

- Code D (Display Table Entry)
- Table STATUS or ACTION and
- the text code of the entry to be displayed or
- the text value of the entry to be displayed.

If an entry which satisfies the selection criteria is found, it is displayed on a Display Entry screen, which is similar to an Add Entry screen. If such an entry is not found, a message is superimposed on the Request Table Maintenance Menu. Unlike on Add Entry screens on Display Entry screens, all fields except the command line are protected.

Range notation can be used in the Text Code field and the Text Value field. In such a case, a variant of the S(elect) function is applied instead of the specified D(isplay). The variant differs from the normal S(elect) in that any character entered in a C field of the Entry Selection List screen is treated like a D.

Modify a Table Entry

To modify a table entry enter on the Request Table Maintenance Menu

- Code M (Modify Table Entry)
- Table STATUS or ACTION
- the text code of the entry to be modified or
- the text value of the entry to be modified.

If an entry which satisfies the selection criteria is found, it is displayed on a Modify Entry screen, which is similar to an Add Entry screen. If such an entry is not found, a message is superimposed on the Request Table Maintenance Menu.

Range notation can be used in the Text Code field and the Text Value field. In this case, a variant of the S(elect) function is applied instead of the specified M(odify). The variant differs from the normal S(elect) in that any character entered in a C field of the Entry Selection List screen is treated like an M and in that the Text Code column and the Text Value column are unprotected and the values of these fields of the listed entries can be changed immediately without recourse to Modify Entry screens.

Purge a Table Entry

To purge a table entry enter on the Request Table Maintenance Menu

- Code P (Purge Table Entry)
- Table STATUS or ACTION and
- the text code of the entry to be modified or
- the text value of the entry to be modified.

If an entry satisfying the selection criteria is found and there are no maintenance requests with the specified Status or Action value then a Purge Confirmation window appears:

```

23:08:34          ***** PREDICT APPLICATION CONTROL *****          2000-04-03
User SAGU          - Request Table Maintenance Menu -

      +-----+
      |          --- Purge Confirmation ---          |
      | Table .... STATUS                            |
      | Code ..... DD                               |
      |                                              |
      | The Purge option has been invoked.          |
      |                                              |
      | Enter 'CONFIRM' or press PF5 to Purge or '.' |
      | to terminate ... _____                |
      +-----+

Code ..... _
Table Type ..... _____
Text Code ..... _____
Text Value ..... _____

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit                                     Canc
    
```



```

15:44:10          ***** PREDICT APPLICATION CONTROL *****          2000-04-01
User SAGU              - Entry Selection List -

SELECT  Code * in Table Type STATUS
C   Nr   Text Code   Text Value   Text Seq
-   -   -
_   1    CDE        coding        12
_   2    CLO        Closed        999
_   3    INI        Initial        22
_   4    OPE        Opened        44
_   5    PND        Pending        21
_   6    REV        Review        34

Mark Selection, Enter Number or 'T' (Top) __

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit          --          +                      Canc
    
```

If one and only one entry satisfying the selection criteria is found then the Text Code value and the Text Value value of the entry are put in the respective fields of the Request Table Maintenance Menu.

If no entry satisfying the selection criteria is found then a message is superimposed on the Request Table Maintenance Menu.

The C fields of an Entry Selection List screen can take values D(isplay), M(odify), P(urge), and S(elect). In the first three cases the specified functions as described in the three preceding sections are applied to the marked entries. The marking of an entry with an S results in the Request Table Maintenance Menu being re-displayed with its Text Code and Text Value fields filled with the respective values from the chosen entry.

User Profile Maintenance

The user profile maintenance facilities allow you to add, copy, modify and purge profiles.

On the Administrator Functions menu, enter Code U (User Profile Maintenance).

The Profile Maintenance Menu appears:

```

16:44:58          ***** PREDICT APPLICATION CONTROL *****          2000-03-10
  User SAGU              - Profile Maintenance Menu -

                Code  Sub-Function
                ----  -
                A    Add Profile
                C    Copy Profile
                D    Display Profile
                M    Modify Profile
                P    Purge Profile
                S    Select Profile
                ?    Help
                .    Exit
                ----  -

                Code ..... _
                User ..... _____
                New User .. _____

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
                Help  Menu  Exit                                Canc

```

On this screen, you can specify the user ID, whose profile is to be handled, and a new user ID to be given a profile by copying.

This chapter covers the following topics:

- Add User Profile
- Copy User Profile
- Select User Profile from List
- Display User Profile
- Modify User Profile
- Purge User Profile

Add User Profile

To add a new user profile, enter Code A (Add Profile) and a User ID on the Profile Maintenance Menu. There does not have to a profile for the specified user ID for the add to proceed.

The Add PAC Profile screen appears:

```

16:45:50          **** PREDICT APPLICATION CONTROL ****          2000-03-10
User SAGU                - Add PAC Profile -

User ID .. SAGV                      Modified: 1998-03-10  By: SAGU
Keys ..... /

User Name ..... _____
Batch User ID ..... _____
Default Keyword ..... _____

List Locked Records ... _

Additional Options ... N

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
                Help Menu Exit Opts                      Prof                      Canc

```

On this screen, you can enter the name of the user for whom you are making a profile. If you are using Natural Security and the user ID has a security profile, the user name is automatically copied from the security profile.

You can optionally enter a Batch User ID to replace "@USER" in the JCL texts of all batch jobs submitted by the user. You can optionally assign a keyword to the profile. The keyword must be previously defined to PAC.

If you specify Y(es) in the List Locked Records field, a list of the entities locked by the user will be displayed when the user logs on to PAC.

To access an Additional Options window, type Y over the default N in the Additional Options field or press PF4 (Opts).

```

16:45:50          **** PREDICT APPLICATION CONTROL ****          2000-03-10
User SAGU                - Add PAC Profile -

User ID .. SAGV                      Modified: 1998-03-10  By: SAGU
Keys ..... /

User Name ..... _____
Batch User ID ..... _____
Default Keyword ..... _____

List Locked Records ... _

Additional Options ... N

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
                Help Menu Exit Opts                      Prof                      Canc

```

```

-- Additional Options --
* Profile Options ..... N
* Keys ..... N
* Date ..... N

```

Note:

Profile options are copied from a system default set. If you do not modify them, the copied values will be used.

To access Profile Options, type Y over the first default N in the Additional Options window. You can also press PF7 (Prof) on the Add PAC Profile screen and bypass the Additional Options window.

A Profile Options window appears:

```

17:21:27          ***** PREDICT APPLICATION CONTROL *****          2001-05-03
User UKMJ                - Add PAC Profile -

+-----+
|                                     - Profile Options for PAC user DEMOUSER -                                     |
|                                                                                                                                           |
| ----- Functions -----                                                                                                                                           |
| Administrator ..... N   Authorize Migration Events ... N                                                                                   |
|                               Submit Migration Events ..... N                                                                                   |
|                                                                                                                                           |
| ----- Maintenance Entities -----                                                                                                                                           |
| Applications ..... R   Application Status Links ..... R                                                                                   |
| Statuses ..... R   File Translation Tables ..... R                                                                                   |
| Jobs ..... R   Keywords ..... R                                                                                                       |
| Maintenance Requests ..... R   Migration Events ..... R                                                                                   |
| Migration Paths ..... R                                                                                                                                           |
|                                                                                                                                           |
| ----- Retrieval Entities -----                                                                                                                                           |
| Change Control Logs ..... R   Object Versions ..... R                                                                                   |
|                                                                                                                                           |
+-----+

Help  Menu  Exit  Opts                Prof                Canc
    
```

Specify the rights of the user.

They are listed under three headings: Functions, Maintenance and Retrieval, Entities.

Functions are either allowed (Y) or not allowed (N) and come in three sets:

- Administrator

If these are to be allowed for the user, the user ID must also be linked to library SYSPACA.

- Authorize Migration Events

A Y here is necessary for the user to be allowed to authorize events; the user must also be designated as authorizer in the appropriate migration path record.

- Submit Migration Events.

Maintenance entities are either M (Modify), R (Read), or N (None), and depending on the value specified, PAC builds a dynamic menu for each user. Retrieval entities can either be R (Read) or N (None).

To determine when and by whom the profile was added and last modified, type Y over the third default N in the Additional Options window.

```

15:44:18          ***** PREDICT APPLICATION CONTROL *****          2001-05-03
User UKMJ          - Add PAC Profile -

User ID .. DEMOUSER          Modi  +-----+
User Name ..... Demo PAC user  | --- Modified --- |
Batch User ID .....          | Date .. 2001-05-03 |
List Locked Records ... N      | Time .. 15:44:15  |
                                | By ... UKMJ        |
                                | TID ... DAEETCD3  |
                                +-----+
                                | --- Added ---    |
                                | -- Addit         | Date .. 2001-05-03 |
                                | * Profile 0       | Time .. 15:44:15  |
                                | * Date ....      | By ... UKMJ        |
                                | TID ... DAEETCD3  | TID ... DAEETCD3  |
                                +-----+

Additional Options ... Y

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit Opts          Prof          Canc
    
```

Press ENTER to leave the Additional Options window and return to the Add PAC Profile screen.

Press ENTER to add the new profile.

The Profile Maintenance Menu appears, displaying the message "Profile successfully added".

Copy User Profile

To create a user profile by copying an existing one, enter Code C (Copy Profile) on the Administrator Functions Menu; specify the user ID whose profile is to be created in the New User field and the user ID whose profile is to be copied in the User field.

A Copy PAC Profile screen appears:

```

16:53:05          ***** PREDICT APPLICATION CONTROL *****      2000-03-10
User SAGU          - Copy PAC Profile -

User ID .. SAGV          Modified: 2000-03-10 By: SAGU
Keys ..... /

User Name ..... SAG User_____
Batch User ID ..... SAGUBAT_
Default Keyword ..... _____

List Locked Records ... N

Additional Options ... N

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
          Help Menu Exit Opts          Prof          Canc
    
```

Copy PAC Profile screens are similar to the Add PAC Profile screens. See Add User Profile for more information.

Select User Profile from List

To select a user profile from a list, enter Code S (Select Profile) and specify a range of user IDs in the User Field on the Profile Maintenance Menu. Leaving the User field blank is identical to entering an "*" in it.

A Profile Selection List appears:

```

User SAGU          - Profile Selection List -          2000-03-10

SELECT Profile *
C Nr Profile      User Name          Batch User
- - - - -
_ 1 DBA           Initial user entry
_ 2 EDSW          Edmund Swylan          EDSWBAT
_ 3 EDSWBAT       Edmund Swylan          EDSWBAT
_ 4 SACU          Anna Sacukevich        SACUBAT
_ 5 SACUBAT       Anna Sacukevich
_ 6 SAGU          SAG User              SAGUBAT
_ 7 SAGUBAT       SAG User
_ 8 SAGU1         SAG User 1            SAGU1BAT
_ 9 SAGU1BAT      SAG User 1

Mark Selection, Enter Number or 'T' (Top) __

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
          Help Menu Exit          --          +          Canc
    
```

It is an alphabetical list of user IDs. For each user ID a user name and a batch user ID are displayed.

Select a profile for processing by marking it with either M (Modify) or P (Purge). You can also mark an entry with D (Display) to display the profile.

If an entry is marked with M, a Modify PAC Profile screen appears. It is similar to the Add PAC Profile screen.

If an entry is marked with P, a profile purge confirmation window appears.

If an entry is marked with D, a Display PAC Profile screen appears. It is similar to the Add PAC Profile screen, but most of its fields are protected and its profile cannot be modified.

Display User Profile

To display an existing user profile, enter Code D (Display Profile) and a user ID in the User field on the Profile Maintenance Menu.

A Display PAC Profile screen appears.

It is similar to Add PAC Profile screen, but most of its fields are protected, and its profile cannot be modified. Display PAC Profile screens can also be accessed from Profile Selection List screens by entering D in the C column.

Modify User Profile

To modify an existing user profile, enter Code M (Modify Profile) and a user ID in the User field on the Profile Maintenance Menu.

A Modify PAC Profile screen appears. It is similar to Add PAC Profile screen. Modify PAC Profile screens can also be accessed from Profile Selection List screens by entering M in the C column.

Purge User Profile

To purge an existing user profile, enter Code P (Purge Profile) and a user ID in the User field on the Profile Maintenance Menu.

A Purge Confirmation window appears:

```

16:44:58          ***** PREDICT APPLICATION CONTROL *****          2000-03-10
User SAGU          - Profile Maintenance Menu -

      Code  Sub-Function
      ----  -
      A    Add Profile

+-----+
|               --- Purge Confirmation ---               |
| Profile .. SAGV                                         |
| The Purge option has been invoked.                     |
| Enter 'CONFIRM' or press PF5 to purge or '.'          |
| to exit ... _____                                  |
+-----+
Code . |
User .+-----+
New User .. _____

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
      Help Menu Exit                                     Canc
    
```

To purge the profile, enter Confirm or press PF5.

Enter a period (.) or press PF3 (Exit) to return to the previous screen without purging the profile.

Purging of a profile can also be invoked from Profile Selection List screens by entering P in the C column.

View Security Maintenance

A DDM is transferred to PAC

- either via migration to the Predict application.
- or via generation at migration time from development or maintenance to the Predict application of an Adabas or user file.

If a Natural object, which is being migrated from a development or maintenance to a non-Predict application, needs a DDM at compilation, a version of the DDM must be available in the Predict application; if not, the compilation will fail. If a DDM is used at such a compilation, it is "linked" or "registered" to the application to which the compiled Natural object is migrated.

DDMs can be migrated from CONTROL to those applications to which they are registered, but not from the Predict application.

The view security maintenance facilities allows you to

- register a DDM to an application "by hand" without, or before, using the DDM at the compilation of a Natural object;
- prohibit the use of all DDMs of a particular name during migrations to the location of a particular application;
- restrict the use of all DDMs of a particular name during migrations to the location of a particular application to "access only" - that is, it prohibits the use of the DDM in the compiled objects for storing, updating, or deleting.

Note:

At application level you can specify the default value of the view when it is first registered to PAC. Use the parameter "View security defaults".

This chapter covers the following topics:

- View Security Maintenance Menu
- View Security Selection List
- View Registration Selection List

View Security Maintenance Menu

To access the View Security Maintenance functions, enter Code V (View Security Maintenance) on the Administrator Functions menu.

The View Security Maintenance screen appears:

```

17:04:33          ***** PREDICT APPLICATION CONTROL *****          2000-03-10
User SAGU          - View Security Maintenance -

Code  Sub-Function
-----
D  Display View Security Definition
M  Modify View Security Definition
R  Register View
?  Help
.  Exit
-----

Code ..... _          Registered .. N
Application .. _____
View Name .... _____

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
          Help  Menu  Exit                               Canc

```

On this screen, you can specify applications or views for which you want to perform view security maintenance and whether you want listed all views in the Predict application ([Registered] = N) or only those with some version registered to the specified application ([Registered] = Y).

To display or modify a view security definition or register a view to an application, enter Code D (Display View Security Definition) or Code M (Modify View Security Definition) or Code R (Register View). Use range notation in the fields Application or View Name to restrict the choice of applications or views respectively.

If the Application field is left blank or "*", "<", or ">" is used in it and if there is an application satisfying the application selection criterion, an Applications window appears in which you can select a single application.

The Registered field can take values N (the default) and Y. N stands for "list all views in the Predict application which satisfy the view selection criterion". Y stands for "list the views in the Predict application which satisfy the view selection criterion and are registered to the application".

View Security Selection List

To display or modify a view security definition, enter Code D or M on the View Security Maintenance screen.

In either case, a View Security Selection List appears:

```

20:22:38          ***** PREDICT APPLICATION CONTROL *****          2000-03-12
User SAGU          - View Security Selection List -
Application .. HEATHER
C Nr View Name          DBid   Fnr   Usage   State
-----
_  1 ES_FU_11          127   127   Access   Registered
_  2 ES_FU_12          127   127   Update   Registered
_  3 FUSER-127-ES      127   127   Disallowed
_  4 FUSER-127-ES-0   127   127   Disallowed Registered

Mark Selection, 'T' for (Top) or '.' to exit: _

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit          --          +          Canc

```

Its C fields are protected if it has come in response to Code D; these fields are unprotected if they are in response to Code M.

The list contains DDM names, not versioned DDMs. The name of the application is displayed in the third line of the screen.

For each view, the database and file numbers of its master file are listed. The number zero is blanked out. Each view is marked with "Update", "Access", or "Disallowed" in the "Usage" column. "Update" means that any version of the DDM can be used without restriction at the compilations concerning migrations to the application's compartment. "Access" means that such a compilation will fail (NAT0975) if an object being compiled contains a STORE, UPDATE, or DELETE statement which uses the DDM. "Disallowed" means that such a compilation will fail (NAT0974) if an object being compiled refers to the DDM.

"Registered" in the "State" column indicates that some version of the DDM has been registered to the application.

A View Security Selection List screen with unprotected "C" fields allows you to modify the usage permissions for the listed views. To assign a usage permission to a view, mark its entry with U for "Update", A for "Access", or D for "Disallowed".

Note:

Marking a view's entry with U or A also causes the view to be immediately registered to the application.

Press ENTER to confirm the modifications. Enter a period (.) in the "Mark Selection" field or press PF3 (Exit) to abandon the latest (following the last pressing of ENTER) modifications and return to the View Security Maintenance screen.

View Registration Selection List

To register versioned DDMs to an application, enter Code on the View Security Maintenance screen.

A View Registration Selection List screen appears:

```

21:05:22          ***** PREDICT APPLICATION CONTROL *****          2000-03-12
User SAGU          - View Registration Selection List -
Application .. HEATHER
C Nr View Name          DBid   Fnr   Version State
-----
_  1 ES_FU_11          127   004
_  2 ES_FU_11          127   003   Registered
_  3 ES_FU_11          127   002   Registered
_  4 ES_FU_11          127   001   Registered
_  5 ES_FU_12          127   002
_  6 ES_FU_12          127   001   Registered
_  7 FUSER-127-ES      127   001
_  8 FUSER-127-ES-0    127   001   Registered

          Mark Selection, 'T' for (Top) or '.' to exit: _

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
          Help  Menu  Exit          --          +          Canc

```

The "C" fields of the screen are unprotected.

Unlike the View Security Selection List screen, it lists versioned DDMs rather than DDM names. It does not show DDM usage permissions.

To register a versioned DDM to the application, mark the entry with an in the "C" column.