

Reporting Functions

This section describes the PAA Reporting facility. It tells you how to execute reporting functions in menu mode. Before you start work with PAA menus, you are recommended to read the section User Interface.

This section covers the following topics:

- The Reporting Menu
 - Displaying Deployments
 - Displaying Jobs
 - Displaying Locations
 - Displaying File Translation Tables
 - Displaying Objects
 - Invoking the Compare Utility
-

The Reporting Menu

To access the PAA reporting functions online from Natural:

1. Type SYSPAA on the Natural command line or at the NEXT prompt.
2. Press ENTER.

To access the PAA reporting functions from the PAA Administration facility:

1. Type MENU on the command line of any administration screen.
2. Press ENTER.

In either case, the reporting facility main menu appears (following possibly the PAA banner screen).

```
13:53:33          **** PREDICT APPLICATION AUDIT ****          2000-09-20
User SAGU                - Reporting -

          Code  Entities
          ----  -
          D    Deployments
          J    Jobs
          L    Locations
          F    File Translation Tables
          O    Objects
          C    Compare Utility
          ?    Help
          .    Exit
          ----  -

Code ..... _

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

Displaying Deployments

The Deployment option on the Reporting main menu allows you to display information about PAA deployments and their locations.

This section covers the following topics:

- Deployment Menu (Reporting)
- Selecting Deployments from a List
- Deployment Display

Deployment Menu (Reporting)

If you select function code D on the Reporting menu, the Deployment menu is displayed:

```

13:54:11          **** PREDICT APPLICATION AUDIT ****          2000-09-20
User  SAGU              - Deployment Menu -

                                Code  Function
                                ----  -
                                D    Display Deployment
                                S    Select Deployment
                                ?    Help
                                .    Exit
                                ----  -

Code ..... _
Application .. _____
Status ..... _____

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

The Deployment menu offers the following functions for deployment display:

| Function | Meaning |
|----------|--|
| D | Display deployment. You must supply an unambiguous deployment application name and status in the corresponding parameter input fields. If the deployment is not specified unambiguously, the function defaults to "S". |
| S | Select deployment. Use this function to generate a selection list of deployments as described in Generating Selection Lists. |

The Deployment menu offers the following parameter input fields:

| Parameter | Meaning |
|-------------|---|
| Application | The application part of the deployment name. |
| Status | The status part of the deployment name. This parameter is evaluated only if you have specified a full application name in the Application field (that is, no application selection criteria). |

Selecting Deployments from a List

Function code S in the Deployment menu generates a list of deployments according to the selection criteria in the parameter input fields. The following figure illustrates an example Deployment Selection list.

Deployment Display

If you specify a deployment for display on the Deployment menu or select one from a Deployment selection list, the Deployment Display is produced. The following figure illustrates an example display of a deployment:

```

11:33:04          **** PREDICT APPLICATION AUDIT ****          2001-04-05
User UKMJ          - Deployment Display -

Application ..... HAIFI          Modified .... 2001-04-03
Status ..... HPROD          State ..... Used

          NATURAL  Locations
C  Library  DBnr   Fnr   FDIC DBnr   Fnr   File Translation Table
-  -----
-  FISPROD  164    247        164  132   FTTO
-  FSRPROD  164    247        164  132
-  UKMJ-P   164    247

Predict Locations ..... N          Foreign Locations ..... N

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

```

- The fields at the top of the information part of the screen tell you the application name and status of the deployment, the date it was last modified and the state it is in.
- In the middle of the screen, the Natural locations of the deployment are listed, along with any assigned file translation tables.
- Type "Y" in the Foreign Locations input field or press PF4 to display foreign (non-Natural) locations.
- Press PF6 to see information on when and by whom the deployment was added and modified.
- Type "Y" in the Predict Locations input field or press PF9 to display Predict locations.

```

14:05:09          **** PREDICT APPLICATION AUDIT ****          2000-09-20
User SAGU          - Deployment Foreign Part Display -

Application .. HEATHER
Status ..... PROC

C Node Type Fmt Dataset Name                               Volume/
-----
_ 199 FJCL S  $SAGU.EMIGR-JCL-2                               J
_ 199 FCOS S  $SAGU.EMIGR-COB-SRC-1                           S
_ 199 FCOL L  $SAGU.EMIGR-COB-LDB-1                           R
_ 199 FCOS S  $SAGU.EMIGR-COB-SRC-2                           S
_ 199 FCOL L  $SAGU.EMIGR-COB-LDB-2                           R

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

Apart from indicating the deployment name, the list of foreign locations shows the following information:

| Column | Meaning |
|-----------------|--|
| Node | The Entire System Server node on which the location resides. |
| Type | The user-defined location type. This determines the object type that can be loaded to this location. |
| Fmt | The location format (S for source object, L for loadable object). |
| Name | Name of the location. |
| Volume/LMS type | Further specification of the location, depending on the operating environment. |

Available function codes for the listed locations are:

| Use this code | to do this |
|---------------|---|
| O | Display the objects (objects loaded, backed-up objects, and object records of removed objects) residing in the location. This function branches to the Object Menu with the location fields filled. See Displaying Objects. |
| T | Display file translation tables. |

Apart from the standard PF keys, the following PF keys are available:

| Press this PF key | to execute this function |
|-------------------|--|
| PF4 | Foreign (in the display of Natural and Predict locations). Display list of foreign locations |
| PF6 | Dates. Displays when and by whom the deployment was added and modified. |
| PF9 | Display Predict locations. |

Displaying Jobs

The Jobs option on the Reporting main menu allows you to display information about the objects and records created by a load operation.

This section covers the following topics:

- Job Menu (Reporting)
- Selecting Jobs from a List
- Job Display

Job Menu (Reporting)

If you select function J on the Reporting menu, the Jobs menu is displayed:

```

14:43:12          **** PREDICT APPLICATION AUDIT ****          2000-09-20
  User SAGU                - Job Menu -

                                Code  Function
                                ----  -
                                D    Display Job
                                S    Select Jobs
                                ?    Help
                                .    Exit
                                ----  -

Code ..... _
Application .. _____
Status ..... _____
Number ..... _____
State ..... _

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

The Job menu offers the following functions for job display:

| Function | Meaning |
|----------|---|
| D | Display Job. You must specify a job unambiguously using the input parameter fields. If the job is not specified unambiguously, the function defaults to "S". |
| S | Select Job. Use this function to generate a selection list of jobs using selection criteria in the parameter input fields as described in Generating Selection Lists. |

The Job menu offers the following parameter input fields:

| Parameter | Meaning |
|-------------|---|
| Application | Deployment application name on which the load operation was performed. If you specify this, you must also specify the Status. |
| Status | Deployment status. If you specify this, you must also specify the Application. |
| Number | Job load number. |
| State | Possible values: P (pending), S (scheduled), A (ACTIVATED), F (FINALIZED), B (BACKED OUT). A job is pending if it is stuck in the process of loading. |

Selecting Jobs from a List

Function code S in the Jobs menu generates a list of jobs according to the selection criteria in the parameter input fields. The following figure illustrates an example Jobs Selection list:

```

14:43:40          **** PREDICT APPLICATION AUDIT ****          2000-09-20
User SAGU                - Job Selection -

  C Job Name  No.  User-ID  Load Date-Time  Migration Event              State
  -----
_ SAGU        13  SAGU    2000-09-20 14:36 HEATHER-CONTROL-PROB-1      Scheduled
_ SAGU        12  SAGU    2000-09-20 13:56 CLOVER-CONTROL-PROA-1      Scheduled
_ SAGU        10  SAGU    2000-09-19 20:50 HEATHER-CONTROL-PROA-1      Activated
_ SAGU         7  SAGU    2000-09-19 20:04 HEATHER-CONTROL-PROB-1      Activated
_ SAGU         6  SAGU    2000-09-19 16:10 CLOVER-CONTROL-PROC-1      Activated
_ SAGU        11  SAGU    2000-09-19 21:59 CLOVER-CONTROL-PROA-1      Finalized
_ SAGU         8  SAGU    2000-09-19 20:20 HEATHER-CONTROL-PROA-1      Backd out

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

The Job Selection list displays the job name and number, user ID of the user who performed the load operation, load date and time, the PAC migration event of the application, and the current state of the job.

Available function codes for a listed job are:

| Use this code | to do this |
|---------------|---|
| D | Display the Job Display screen for the job. |
| O | Display the Object Menu screen with the Job field filled (see Displaying Objects). You can then list all objects belonging to the job, or impose further selection criteria on the objects to produce a restricted list of objects. Objects belonging to a job include those removed from their locations by retirements, job backouts, or finalizations of other jobs (without subsequent deletion of the object records). |
| Y | Displays the job's deployment. This display lists the Natural and Predict locations of the deployment, and provides access to a display screen listing foreign locations of the deployment. See Deployment Display. |

You can select several jobs with function code D, O or Y in one input operation. The functions are then processed successively top down as you return to the list of jobs and press ENTER.

Job Display

If you specify a job for display on the Job menu or select a job from a Job selection list, the Job Display is produced. The following figure illustrates an example display of a job. The information provided speaks for itself.

```

14:45:28          **** PREDICT APPLICATION AUDIT ****          2000-09-20
User SAGU                      -Job Display -

Load Information                                Objects Loaded
Number ..... 6                                Natural objects
User-Id ..... SAGU
State ..... Activated
Event Name ..... CLOVER-CONTROL-PROC-1
Application ..... CLOVER
Status ..... PROC
Origin Status ..... CONTROL
File Transl.Table .

Date Information
Loaded ..... 2000-09-19 at 16:10 by SAGU
Authorized ..... 2000-09-19 at 16:03 by SAGU      from PCM29
Scheduled ..... 2000-09-19 at 16:03
Activated ..... 2000-09-19 at 18:10
Backed out .....
Finalized .....

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

Displaying Locations

The Locations option on the Reporting main menu allows you to display information about PAA locations.

This section covers the following topics:

- Locations Menu (Reporting)

- Selecting Locations from a List

Locations Menu (Reporting)

If you select function code L on the Reporting Menu, the Location menu is displayed:

```

14:05:52          **** PREDICT APPLICATION AUDIT ****          2000-09-20
  User SAGU                -Location Menu -

                Code  Function                                Location Type
                ----  -
                D   Display Location                        N   Natural
                S   Select Location                        P   Predict
                ?   Help                                    F   Foreign
                .   Exit
                ----  -

Code ..... _                                Type .... _

Natural Library ... _____ DBnr .. ____ Fnr .. ____
Predict ..... DBnr .. ____ Fnr .. ____

ESY Node ..... ____ DSN _____
                               Volume/LMS Type ..... _____

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

The Location menu offers the following functions for displaying locations:

| Function | Meaning |
|----------|---|
| D | Display Location. You must supply an unambiguous location using the input parameter fields. If the location is not specified unambiguously, the function defaults to "S". |
| S | Select Location. Use this function to generate a selection list of locations using the parameter input fields as described in Generating Selection Lists. |

The Location menu offers the following parameter input fields:

| Parameter | Meaning |
|-----------------|---|
| Type | One of N (Natural), P (Predict) or F (foreign). Required for both the Display and Select functions. |
| Natural Library | For type N, specify name of the Natural library, and the database and file numbers of the Natural system file. Do not to confuse the Predict system files of Natural locations with Predict locations; the former carry cross-references, the latter DDMS. |
| Predict | For type P, specify the database and file numbers of the Predict system file. |
| ESY node | For type F, specify the Entire System Server node number and the name of the dataset. |
| Volume/LMS Type | For type F, specify volume (if required) of the PDS on OS/390 systems, or LMS type on BS2000/OSD systems. |

Selecting Locations from a List

The following three figures illustrate an example list each for the location types Natural, Predict and foreign.

Each selection list reflects the selection criteria used to generate the list, and indicates the current state of each location. Available function codes are described following the third example.

List of Natural Locations

```

14:09:07          **** PREDICT APPLICATION AUDIT ****          2000-09-20
  User SAGU              - Natural Location Selection -

  Select Location *

  C  Library   DBnr Fnr   Fdic DBnr Fnr   State
  -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
  _  LIB1      222 127         222 128   Unlocked
  _  LIB2      222 127         222 128   Unlocked

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

```

List of Predict Locations

```

14:09:54          **** PREDICT APPLICATION AUDIT ****          2000-09-20
User SAGU              - Predict Location Selection -

Select Location *

C  Predict DBnr Fnr   State
-  -----
_           222 128   Unlocked

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

List of Foreign Locations

The example for foreign locations is taken from a BS2000/OSD environment:

```

14:36:20          **** PREDICT APPLICATION AUDIT ****          2000-09-20
User SAGU              - Foreign Location Selection -

Select Location *

C  Node  Dataset Name          Volume/
                                LMS Type  State
-  ---  -
_  199  $SAGU.EMIGR-COB-LDB-1    R         Unlocked
_  199  $SAGU.EMIGR-COB-LDB-2    R         Unlocked
_  199  $SAGU.EMIGR-COB-SRC-1    S         Unlocked
_  199  $SAGU.EMIGR-COB-SRC-2    S         Unlocked
_  199  $SAGU.EMIGR-JCL-1        J         Locked
_  199  $SAGU.EMIGR-JCL-2        J         Locked

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

The following functions are available for the locations listed:

| Use this code | to do this |
|---------------|--|
| D | Invoke the location display screen for the location. This screen contains a list of the deployments that contain the location. |
| O | Displays the objects residing in the location. This function branches to the Object Menu with the location fields filled (see Displaying Objects). You can then Select all objects known by the PAA to be in the location, to be backed up for it, or to be removed from it (with the object record undeleted); or you can specify further selection criteria on the objects to be reported on an Object Selection screen. |

You can select several locations with function code D or O in one input operation. The functions are then processed successively top down as you return to the location list and press ENTER.

Displaying File Translation Tables

The File Translation Table option on the Reporting main menu allows you to display information about the defined PAA file translation tables. This is described under the following subsections:

- File Translation Table Menu (Reporting)
- Selecting File Translation Tables from a List
- File Translation Table Display

File Translation Table Menu (Reporting)

If you select function F on the Reporting Menu, the File Translation Table menu is displayed:

```

11:27:27          **** PREDICT APPLICATION AUDIT ****          2001-04-05
User UKMJ        - File Translation Table Reporting Menu -

                Code  Sub-Function
                ----  -
                D    Display File Translation Table
                S    Select File Translation Table
                ?    Help
                .    Exit
                ----  -

Code ..... _
FTT name ..... _____

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

```

The File Translation Table menu offers the following functions for File Translation Table display:

| Function | Meaning |
|----------|--|
| D | Display file translation table. You must specify a file translation table name using the input parameter fields. If the file translation table is not specified unambiguously, the function defaults to "S". |
| S | Select file translation table. Use this function to generate a selection list of file translation tables. |

Selecting File Translation Tables from a List

Function code S in the File Translation Table menu generates a list of file translation table's according to the selection criteria. The following screen illustrates an example File Translation Table Selection list:

```

11:29:37          **** PREDICT APPLICATION AUDIT ****          2001-04-05
User UKMJ          - File Translation Table Selection -

C          FTT name          Type Versions
-  -----
_  FTTA          AND          1
_  FTTO          OR          2
_  UKMJ_PROD_FTT          OR          1
_  UKMJ_PROD_FTT_001          AND          1

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

The File Translation Table Selection list displays the file translation table name, type and version number. Available function codes for a listed file translation tables are:

| Use this code | to do this |
|---------------|---|
| D | Display the File Translation Table screen for the file translation table. |
| s | Select the file translation table. |

File Translation Table Display

If you specify a file translation table for display on the File Translation Table menu or select a file translation table from a file translation table selection list, the File Translation Table Display is produced.

The following screen illustrates an example display of a file translation table. The information provided speaks for itself.


```

14:53:05          **** PREDICT APPLICATION AUDIT ****          2000-09-20
  User SAGU                -Object Menu -

                Code  Function
                ----  -
                D   Display Object
                S   Select Object
                ?   Help
                .   Exit
                ----  -

Code ..... _

Object ..... _____ Job Number .. _____
Type.. _ ____ _ State .. _ Version .. _____ Location Type ... _
Natural Library ... _____ DBnr .. ____ Fnr .. ____
Predict ..... DBnr .. ____ Fnr .. ____
ESY Node ..... ____ DSN _____
                Volume/LMS Type ... _____ Current from .. _____
Application ... _____ to .. _____
Status ..... _____ (yyyy-mm-dd)

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

The Object menu offers the following functions for Object display:

| Function | Meaning |
|----------|---|
| D | Display Object. You must specify an object unambiguously using the input parameter fields. If the job is not specified unambiguously, the function defaults to "S". |
| S | Select Object. Use this function to generate a selection list of objects using selection criteria in the parameter input fields as described in Generating Selection Lists. |

The Object menu offers the following parameter input fields:

| Parameter | Meaning |
|-------------------|---|
| Object | Object name |
| Job number | Job number of the load that produced the object. |
| Type | Subtypes of the object. If you specify subtype 2, you must also specify subtype 1. See the description of objects in the Terminology list. |
| State | Scheduled (S), current (C), backed up (B), historical (H), removed (R), or <blank> (all states). An object with state "historical" arises when backed-up objects are made current. There are then two object records: one current and one historical. |
| Version | If you specify a location, you can also specify a PAA version number here. |
| Location type | One of Natural(N), Predict(P) or Foreign (F). |
| Natural library | For location type N, the library name, database number and file number. You must specify all location parameters (that is, no selection criteria or blank). |
| Predict | For location type P, the Predict database number and file number. |
| ESY node | For location type F, the Entire System Server node number, dataset name, and volume or LMS (depending on the operating system). |
| Current from / to | Specify a "current from" date to select objects which were current on or after that date. Specify a "current to" date to select objects which were current on or before that date. |
| Application | Specify the PAC application to select the objects loaded from it. No wildcard selection is possible here. |
| Status | Specify a status to select objects loaded to the deployment identified by the combination of this and the Application field. No wildcard selection is possible here. |

Selecting Objects from a List

Function code S in the Objects menu generates a list of objects according to the selection criteria in the parameter input fields. The following figure illustrates an example Object Selection list:

```

14:59:03          **** PREDICT APPLICATION AUDIT ****          2000-09-20
User SAGU              - Object Selection -

Objects ES_Z_P05

C Object Name                Type  State Vers  Location
-----
_ ES_Z_P05 (Source)          Progrm Schd          LIB1 222 127 (222,128)
_ ES_Z_P05 (Catlg)          Progrm Schd          LIB1 222 127 (222,128)
_ ES_Z_P05 (ref)            Progrm Schd          LIB1 222 127 (222,128)
_ ES_Z_P05 (Source)          Progrm Curr 00002 LIB1 222 127 (222,128)
_ ES_Z_P05 (Catlg)          Progrm Curr 00002 LIB1 222 127 (222,128)
_ ES_Z_P05 (ref)            Progrm Curr 00002 LIB1 222 127 (222,128)
_ ES_Z_P05 (Source)          Progrm Curr 00001 LIB2 222 127 (222,128)
_ ES_Z_P05 (Catlg)          Progrm Curr 00001 LIB2 222 127 (222,128)
_ ES_Z_P05 (ref)            Progrm Curr 00001 LIB2 222 127 (222,128)
_ ES_Z_P05 (Source)          Progrm Remd 00001 LIB1 222 127 (222,128)

Reposition: _____

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

The Object Selection list displays the object name and type, an abbreviation of its state, its PAA version number, and its location (dataset names may be truncated). Available function codes for a listed object are:

| Use this code | to do this |
|---------------|--|
| D | Display the Object Display screen for the object. This screen contains the information about the object relevant to PAA and provides access to an Object Directory Information Display screen (see below). |
| J | Display the Job Display screen containing information about the job the object belongs to (see Job Display). |

You can select several objects with function code D, or J in one input operation. The functions are then processed successively top down as you return to the list of objects and press ENTER.

Object Display

If you specify an object for display on the Object Menu or select an object from an Object selection list, the Object Display is produced. The following figure illustrates an example display of an object. The information provided speaks for itself.

```

15:00:03          **** PREDICT APPLICATION AUDIT ****          2000-09-20
  User SAGU              - Object Display -

Object ..... ES_Z_P05                                Type ..... Progrm
Version ..... 00002          PAC version ... 00002      Format ... Source
State ..... Current

Location ..... Library LIB1 222 127 Fdic 222 128
Application .. CLOVER
Status ..... PROA
Job number ... 11

  Date Information
Loaded .....2000-09-19 at 21:59 by SAGU
Scheduled .....
Activated .....2000-09-19 at 21:59
Backed up .....
Removed .....
                                                    Directory Information N

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

Type Y in the Directory Information field to display directory information about the object, see below.

Press PF4 to display the Job Display screen of the job the object belongs to.

Object Directory Information

You can invoke this screen from the Object Display screen (see above). The information items concerning object directory information speak for themselves.

```

          **** PREDICT APPLICATION AUDIT ****
  User SAGU              - Object Directory Information Display -

Directory of Program ES_Z_P05                                Saved on ...2000-09-19 21:23:49
-----
Library .... * PAA *   User-ID ..... SAGU           Mode ..... Structured
TP-System .. RTIO     Terminal-ID .. PCM29         PAC version .. 2
Op-System .. BS2000/OSD Transaction .. B.NRT227    PAA version .. 2
NAT-Ver .... 2.3.3
Size in ESIZE ..... 767          Bytes
    
```

Invoking the Compare Utility

The Compare Utility option on the Reporting main menu allows you to compare PAA-controlled objects as well as Natural objects in this environment.

If you select function C on the Reporting Menu, the Compare Utility main menu is displayed:

```

11:53:16          ***** Predict Application Control *****          02-01-16
User UKMJ          - PAA Compare Main Menu -                          Library SYSPAA
                                                                Mode PAA

          Code  Function or Mode
          ----  -
          A    Compare PAA Objects
          N    Compare Natural Objects
          x    Direct Command Mode
          ?    Help
          .    Exit

Command ==>

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

The Compare Utility can be used in either Natural mode, PAA mode or PAC mode. Therefore, the detailed description can be found in the PAC Reference documentation. Please see the sections Compare Utility and in particular PAA Mode.