

System Maintenance Aid

SMA Menus and Commands

Version 2.2.1

June 2019

This document applies to System Maintenance Aid Version 2.2.1 and 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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1 About this Documentation

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Document Conventions

Convention	Description
Bold	Identifies elements on a screen.
Monospace font	Identifies service names and locations in the format <code>folder.subfolder.service</code> , APIs, Java classes, methods, properties.
<i>Italic</i>	Identifies: Variables for which you must supply values specific to your own situation or environment. New terms the first time they occur in the text. References to other documentation sources.
Monospace font	Identifies: Text you must type in. Messages displayed by the system. Program code.
{ }	Indicates a set of choices from which you must choose one. Type only the information inside the curly braces. Do not type the { } symbols.
	Separates two mutually exclusive choices in a syntax line. Type one of these choices. Do not type the symbol.
[]	Indicates one or more options. Type only the information inside the square brackets. Do not type the [] symbols.
...	Indicates that you can type multiple options of the same type. Type only the information. Do not type the ellipsis (...).

Online Information and Support

Software AG Documentation Website

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Software AG Empower Product Support Website

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- Link to external websites that discuss open standards and web technology.

Data Protection

Software AG products provide functionality with respect to processing of personal data according to the EU General Data Protection Regulation (GDPR). Where applicable, appropriate steps are documented in the respective administration documentation.

2 SMA Menus and Commands

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This section describes the functions provided when using the online SMA menus and commands.



Note: In this section, the term “tape” represents any installation media (e.g. tape and CD-ROM) supported by Software AG. The information provided here applies to the use of any of these media.

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Menus

This section describes the types of menus provided by SMA, and also how to select and sort objects within object menus.

- [Menu Types](#)
- [Selecting and Sorting Objects within Object Menus](#)
- [SMA Main Menu](#)

Menu Types

SMA provides two types of menus:

- *Function Menus.* These present a selection list of possible functions. You can select a function by entering the appropriate letter in the command line at the bottom of the screen.
- *Object Menus.* These present a list of objects. You can select one of these objects and the function to be performed for this object by entering a command next to the selected object.

Selecting and Sorting Objects within Object Menus

Each object menu provides an input line directly underneath the column headers. You can use this line to position the object list to a specific value, and also to limit the number of objects to be displayed.

```

07:31:52          ***      SYSTEM MAINTENANCE AID      ***      2005-09-27
User:  SAG                - Environment Maintenance -                ENMENM11
Page:  1                                                         Rec: 0007
Code Environment      Description
  * _____ *
  ___ OS/MVS          DEFAULT-ENVIRONMENT FOR OS/MVS
  ___ PROD1           PRODUCTION 1
  ___ PROD2           PRODUCTION 2
  ___ SMA             SMA INSTALLATION
  ___ TDEV            DEVELOPMENT
  ___ TEST1           TEST INSTALLATION 1
  ___ TEST2           TEST INSTALLATION 2

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

```

Selecting Objects

Using the above screen as an example, the following input could be provided in the input line for the column Environment:

Value	Result
PROD1	Environment with the name PROD1 will be displayed.
PR*	Environments with a name which begins with PR will be displayed.
PR>	Environments with a name which is equal or greater than PR will be displayed.
PR<	Environments with a name which is equal or less than PR will be displayed.
*TEST	Environments with a name which ends with TEST will be displayed.
PR*1	Environments with a name which begins with PR and ends with 1 will be displayed.
*PR*1	Environments with a name which contains PR and ends with 1 will be displayed.

Selecting Objects using Multiple Selection Criteria

You can also use the input line to enter multiple criteria for the selection of objects. For example, as shown in the screen below, if the value PROD* is entered for Environment and the value *1 is entered for Description, only those environments which have a name which begins with PROD and which have a description which contains the value 1 will be displayed.

```

07:33:42          ***      SYSTEM MAINTENANCE AID      ***      2005-09-27
User:  SAG          - Environment Maintenance -          ENMENM11
Page: 1                                Rec: 0007

Code Environment  Description
  PROD* _____ *1_____
  ___  PROD1      PRODUCTION 1

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

Sorting Objects

You can use PF4 to sort the object list.

A pop-up window will appear so that you can specify the desired sort field and sort order.

```

15:57:22          *** SYSTEM MAINTENANCE AID ***          2005-09-27
User: SAG          - Environment Maintenance -             ENMENM11
Page: 1  sorted by +-----Sort Options-----+       Rec: 0007
  ---->          !                                     !
Code Environment !                                     !
  *_____      ! Mark the sort field:             ! _____
  ___ OS/MVS     !   X Environment Name            !
  ___ PROD1     !   _ Description                 !
  ___ PROD2     !                                     !
  ___ SMA       ! Mark to sort in order:           !
  ___ TDEV     !   X Ascending                       !
  ___ TEST1    !   _ Descending                     !
  ___ TEST2    !                                     !
              !                                     !
              !                                     !
              !                                     !
              !                                     !
              !                                     !
              !                                     !
              !                                     !
              !                                     !
Command ==>      +-----+
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit Sort Prnt -- - + ++                  Canc
  
```

SMA Main Menu

The SMA Main Menu provides the following functions:

```

07:40:17          ***      SYSTEM MAINTENANCE AID      ***      2005-09-27
User:  SAG              - Main Menu -                      SMMENM11

                Code      Function
                A         Administration
                E         Environments
                L         Load SMA Table
                R         Reports
                T         Datasets on Tapes
                Z         Library Corrections
                .         Exit
Code _

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

Command	Description
A	Administration. Administrative functions are available to specify global parameters, and to remove unused tapes and/or products from an SMA system file.
E	Environments. You can use this function to describe the environments where Software AG products are installed or are to be installed. This description consists of the products to be installed, various install parameters (SVC number, data set names, etc.) and possibly locally-adapted and generated JCL. The JCL generation for a specified environment is also started within this function.
L	Load SMA Table. This function is used to load SMA tables into the SMA system file.
R	Reports. This function can be used to create various reports.
T	Datasets on Tapes. After receiving an installation tape from Software AG, you should load the control data from the tape into SMA using a batch mode job. The T function can then be used to display information for the tape as well as the products and data sets contained on the tape. This function can also be used to control the copying of data sets from tape to disk.
Z	Library Corrections. Zaps and other corrections which were delivered on an installation tape can be applied or removed using SMA. This provides the required control of Zap application as well as documentation about where and when corrections have been applied.

Administration

If function A is entered in the SMA Main Menu, the following screen will be displayed:

```

07:46:19          ***      SYSTEM MAINTENANCE AID      ***      2005-09-27
User:  SAG                - Administration -                ADMENM11

Administration Task      Description
-----
_ SMA Profile            Maintain SMA Profile
_ Global Parameters      Maintain Global Parameters
_ Maintain Generate Job  Maintain Job to generate installation Jobs
_ Maintain Tabload Job   Maintain Job to load SMA table
_ Submit Tabload Job     Submit Job to load SMA table
_ Saved Jobs             Access saved Jobs
_ Unused Prd/Sol-Id      Delete Products/Solutions not installed anywhere
_ Unused Tapes           Delete Tapes containing only deleted Products
_ Unused Lib-groups      Delete unused Library Groups

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

```

The following administrative functions are available:

Function	Description
SMA Profile	SMA profile parameters are used to control various SMA operations.
Global Parameters	Global parameters are used to describe the physical characteristics of the user site. Global parameters are valid for all environments.
Maintain Generate Job	Maintain JCL skeleton SMA-GENERATE-JCL which is used to generate JCL in batch mode.
Maintain Tabload Job	Maintain job to load SMA table data.
Submit Tabload Job	Submit job to load SMA table data.
Saved Jobs	Maintain, modify, and submit jobs contained in the saved jobs area. These jobs were created with the line command C0 from generated jobs or the line command CJ in the Environment Maintenance function.
Unused Prd/Sol-Id	Delete products and solutions which are not installed in any SMA environment from SMA system file.
Unused Tapes	Delete unused installation tapes from SMA system file.
Unused Lib-groups	Delete unused library groups from SMA system file.

SMA Profile

This function is used to maintain the SMA profile parameters which are used to control various SMA operations.

The following screen will be displayed:

```

07:50:41          ***      SYSTEM MAINTENANCE AID      ***      2005-09-27
User:  SAG                - SMA Profile -                ADPRFM11

Printing Defaults - Page Size ..... 60
                   Printer ID .....

Language Code ..... 1 (1=English, 2=German)
Confirm Save ..... N (Y,N)
Display SMA LOGO menu ..... Y (Y,N)
Enable lower case typing
for editors and parameter values ..... N (Y,N)

Changes are to be valid during this session only .. Y (Y/N)

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

The following can be entered or changed:

- Page Size for print functions
- Printer ID for reports and print functions
- Language code: 1=English, 2=German
- Confirm SAVE in the editors and in the modify parameter screens
- Display SMA logo when starting
- Enable lower case in editor and parameter values

The values entered are either valid for this session only (this is the default), or are stored in the SMA system file permanently.

Global Parameters

This function is used to maintain the global parameters which are used to describe the physical characteristics of the user site. Global parameters are valid for all environments.

The following screen will be displayed (under z/OS):

```

16:02:11          ***      SYSTEM MAINTENANCE AID      ***          2005-09-27
User:  SAG          - Modify Global Parameter Values -          ADPARM11

Reposition to Parameter: _____
Code Name of Parameter      Value
__ MVS-DB-DEVICE            3390_____
__ MVS-DSN-ADA-LOAD         SAG.ADABAS.LOAD_____
__ MVS-DSN-USER-LOAD       SAG.USER.LOAD_____
__ MVS-JOB-CLASS            1_____
__ MVS-JOB-CLASS2          G_____
__ MVS-JOB-PREFIX          SMA_____
__ MVS-LIB-ALLOC-TYPE      TRK_____
__ MVS-LIB-GROUP           SAGLIB_____
__ MVS-LIB-GROUP-UNIT      3390_____
__ MVS-LIB-GROUP-VOL       VVVVVV_____
__ MVS-NAT-BATCH           NATBATCH_____
__ MVS-OUTPUT-CLASS        X_____
__ MVS-SVC                  249_____
__ MVS-TAPE-DEVICE         3490_____

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

```

You may enter a new value for any value in the Value column, or enter one of the line commands described below.

Command	Description
DI	Display/Modify. A description of the selected parameter is displayed. You can use this screen to modify the parameter values. Note: For a better overview of the complete set of parameters, use report P of the SMA Reports function.
LO	Long Value. This command can be used if the new value for a parameter does not fit into the corresponding column. A maximum of 72 characters is permitted.

For more information on the use of global parameters for each user environment, see the following sections:

- Prepare z/OS Parameters

- Prepare z/VSE Parameters
- Parameter Group BASIC (BS2000/OSD)

Maintain Generate Job

This function is used to maintain the JCL skeleton SMA-GENERATE-JCL which is used to generate JCL in batch mode.

The following screen will be displayed (under z/OS):

```

Command ==> > +
Top Environment: OS/MVS Skeleton: SMA-GENERATE-JCL .....7..

0010 //SMAGENJC JOB CLASS=#G-MVS-JOB-CLASS#,MSGCLASS=#G-MVS-OUTPUT-CLASS#
0020 //* -----
0030 //* GENERATE JCL
0040 //* -----
0050 //SMAGEN EXEC PGM=#G-MVS-NAT-BATCH#,
0060 // PARM=('EJ=OFF,IM=D,MADIO=0,MT=0,MAXCL=0,INTENS=1,',
0070 // 'LFILE=#S-SMA-LFILE#,FNAT=#S-FNAT#,FSEC=#S-FSEC#')
0080 //STEPLIB DD DSN=#G-MVS-DSN-USER-LOAD#,DISP=SHR
0090 // DD DSN=#G-MVS-DSN-ADA-LOAD#,DISP=SHR
0100 //CMWKFO2 DD DSN=#G-MVS-DSN-CMWKF02#,DISP=SHR
0110 //SYSOUT DD SYSOUT=#G-MVS-OUTPUT-CLASS#
0120 //CMPRINT DD SYSOUT=#G-MVS-OUTPUT-CLASS#
0130 //CMPRT01 DD SYSOUT=#G-MVS-OUTPUT-CLASS#
0140 //CMPRT02 DD SYSOUT=#G-MVS-OUTPUT-CLASS#
0150 //CMPRT03 DD SYSOUT=#G-MVS-OUTPUT-CLASS#
0160 //DDCARD DD *
0170 ADARUN DB=#S-DBID#,DE=#G-MVS-DB-DEVICE#,SVC=#G-MVS-SVC#
0180 /*
0190 //CMSYNIN DD *
0200 LOGON #S-SMALIB#

.....+.....1.....+.....2. Press PF11 to edit conditions No.of.Lines: 27

```

Use PF11 to perform all desired editing. Usage of the editor for modification is explained in Editor Commands.

Maintain Tabload Job

This function is used to maintain the job which loads the SMA table data.

The following screen will be displayed (under z/OS):

```

Command ===>                                     > +
Top      Environment: #INTERNAL                    Skeleton: TABLOAD2                ....7..

0010 //SMATABL  JOB CLASS=#G-MVS-JOB-CLASS#,MSGCLASS=#G-MVS-OUTPUT-CLASS#
0020 //* -----
0030 //* THIS JOBS CALLS THE SMA TABLE DATA LOADER (TABLOAD)
0040 //* -----
0050 //TABLOAD  EXEC PGM=#G-MVS-NAT-BATCH#,REGION=8M,
0060 //      PARM='INTENS=1,MT=0,MADIO=0,MAXCL=0,IM=D,LFILE=#S-SMA-LFILE#'
0070 //STEPLIB DD DSN=#G-MVS-DSN-USER-LOAD#,DISP=SHR
0080 //      DD DSN=#G-MVS-DSN-ADA-LOAD#,DISP=SHR
0090 //*
0100 //CMWKF01 DD DSN=&NAME&,LABEL=(1,SL),VOL=SER=&VOL&,
0110 //      UNIT=#G-MVS-TAPE-DEVICE#,DISP=(OLD,PASS)
0120 //CMWKF01 DD DSN=&NAME&,DISP=SHR
0130 //*
0140 //SYSOUT   DD SYSOUT=#G-MVS-OUTPUT-CLASS#
0150 //CMPRINT  DD SYSOUT=#G-MVS-OUTPUT-CLASS#
0160 //CMPRT01  DD SYSOUT=#G-MVS-OUTPUT-CLASS#
0170 //CMPRT02  DD SYSOUT=#G-MVS-OUTPUT-CLASS#
0180 //CMPRT03  DD SYSOUT=#G-MVS-OUTPUT-CLASS#
0190 //DDCARD   DD *
0200 ADARUN    PROG=USER,DE=#G-MVS-DB-DEVICE#,DB=#S-DBID#,SVC=#G-MVS-SVC#

.....+.....1.....+.....2. Press PF11 to edit conditions  No.of.Lines:  28

```

Submit Tabload Job

This function is used to submit the job which loads the SMA table data.

The following screen will be displayed (under z/OS):

```

16:09:29          ***      SYSTEM MAINTENANCE AID      ***      2005-09-27
User:  SAG          - Administration -                  ADMENM11

Administration Task      Description
-----
_ SMA Profile            Maintain SMA Profile
_ Global Parameters      Maintain Global Parameters
_ Maintain Generate Job  +-----+
_ Maintain Tabload Job   !                               !
x Submit Tabload Job     ! Submit SMA Table Loader      !
                          !                               !
_ Saved Jobs             ! Load SMA Tables from        !
                          !                               !
_ Unused Products        ! Dataset name . SMT111.TABS_____ !
_ Unused Tapes           ! Device ..... T             (Disk / Tape) !
_ Unused Solutions       ! Tape name .... _____ (Volser) !
_ Unused Lib-groups      !                               !
                          +-----+
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---

```

You can load the SMA tables directly from tape or from disk. Enter the data set name and/or the volser and press Enter to submit the Tabload job. The data set name will be determined by the variable &NAME& and the volser by the variable &VOL& within the Tabload job.

Maintain Saved Jobs

This function is used to maintain, modify, and submit jobs contained in the saved jobs area. These jobs were created with the line command C0 from generated jobs or the line command CJ in the Environment Maintenance function.

The following screen will be displayed:

```

08:27:39          *** SYSTEM MAINTENANCE AID ***          2005-09-27
User: SAG              - Saved Jobs -                      ADSAVM31
Page: 1                Rec: 0008

Code Job Group      Job      Description      Status
  * _____ * _____ * _____ * _____
  ___ PROD1          I005-1    CREATE TABLES FOR TP MONITO  Open
  ___ PROD1          I056-1    AUXILIARY ASSEMBLIES          Open
  ___ PROD1          I070-1    PREPARATIONS ONLINE NATURAL   Submitted
  ___ PROD1          I088-1    LINK EXITS IN ADA-INTER       Open
  ___ PROD1          I999-1    SMA COMMIT AND ENV.REPORT     Open
  ___ PROD1          P060-1    READ ME; DO NOT SUBMIT        Open
  ___ PROD1          REPORT-1  Installation Guide            Open
  ___ PROD1          T650-1    COPY DATASETS FROM TAPE       Open

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

```

You can enter one of the commands described below.

Command	Description
CO	Copy. The selected job will be copied.
DE	Delete. The selected job will be deleted.
DI	Display. The selected job will be displayed.
EX	Export. The selected job will be exported to a PC file. Work file 7 must be defined for the PC file.
MO	Display/Modify. The saved jobs will be displayed. You can browse through the jobs using PF7 and PF8 to scroll backwards and forwards, print the job, or modify it before submitting it to the operating system for execution. Usage of the editor for modification is explained in Editor Commands.
PR	Print. The selected job will be printed.
SU	Submit. The saved job will be submitted to the operating system for execution. Within SMA, a job can have the status: <ul style="list-style-type: none"> ■ Open: the job has been saved and has not yet been submitted ■ Submitted: the job has been submitted. It is possible to submit a job, change it and re-submit it. The successful execution of a submitted job is <i>not</i> checked by SMA.
RN	Rename. The selected job will be renamed.
TE	Modify Text. The text description of the selected job will be modified.

Delete Unused Products and Solutions

This function is used to delete products and solutions which are not installed in any SMA environment from the SMA system file.

The list of products and solutions which are not installed will be displayed.

```

09:09:16          *** SYSTEM MAINTENANCE AID 2.2.1 ***          2015-07-29
User: SAG          - Unused Product/Solutions -                ADUPRM21
Page: 1  sorted by                                     Rec: 0185
  --->
  Prd/Sol-Id  Description                                     last installed in
  *-----*
- AAF822I001  AAF822 CORRECTIVE TAPE SOL-ID-AAF822I001  WAS NEVER INSTALLED
- ACF 8.2.2   ADABAS CACHING FACILITY                       WAS NEVER INSTALLED
- ACF 8.2.3   ADABAS CACHING FACILITY                       WAS NEVER INSTALLED
- ACF 8.3.1   ADABAS CACHING FACILITY                       WAS NEVER INSTALLED
- ACF 8.3.2   ADABAS CACHING FACILITY                       WAS NEVER INSTALLED
- ACI 8.2.5   ADABAS CICS INTERFACE                         WAS NEVER INSTALLED
- ADA 8.1.4   ADABAS                                         WAS NEVER INSTALLED
- ADA814S001  ADA814 CORRECTIVE TAPE SOL-ID-ADA814S001  WAS NEVER INSTALLED
- ADA814X002  ADA814 CORRECTIVE TAPE SOL-ID-ADA814X002  WAS NEVER INSTALLED
- ADA 8.2.5   ADABAS                                         WAS NEVER INSTALLED
- ADE 8.2.4   ADABAS DELTA SAVE FACILITY                   WAS NEVER INSTALLED
- ADE 8.3.2   ADABAS DELTA SAVE FACILITY                   WAS NEVER INSTALLED
- AOS 8.1.4   ADABAS ONLINE SERVICES                       WAS NEVER INSTALLED
- AOS814I005  AOS814 CORRECTIVE TAPE SOL-ID-AOS814I005  WAS NEVER INSTALLED
Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Menu Exit Sort Prnt  --  -  +  ++  Refr      Canc  ↵
  
```

You can mark the products or solutions to be deleted by SMA.

Delete Unused Tapes

This function is used to delete unused installation tapes from SMA system file.

The list of unused tapes will be displayed. An unused tape appears, if all products and solutions on that tape have been deleted with the function Unused Products and Solutions.

```

11:15:55          ***      SYSTEM MAINTENANCE AID      ***          2005-09-28
User:  SAG              - Unused Tapes -              ADUBAM11
Page: 1                                Rec: 0001

   Volume  Description                                Add Date
   *_____ *_____                                *_____
  _  T77967  Software AG Customer                    2005-09-27

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

```

You can mark one or more tapes for deletion. Since only the tapes are shown for which all product data sets have already been deleted, the only information remaining for deletion is the tape record and the Readme texts for these tapes.

Delete Unused Library Groups

This function is used to delete unused library groups from the SMA system file.

The list of unused library groups will be displayed.

```
12:23:21          ***      SYSTEM MAINTENANCE AID      ***      2005-09-28
User:  SAG          - Unused Library Groups -          ADULIM11
Page: 1                                     Rec: 0001

   OP-Sys      Library Group name      Status
   *_____  *_____  -----
  _ OS/MVS     LIBPROD2

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

You can mark one or more library group for deletion.

Environment Maintenance

This function is used to define and maintain SMA user environments.


```

07:31:52          ***      SYSTEM MAINTENANCE AID      ***          2005-09-27
User: SAG          - Environment Maintenance -          ENMENM11
Page: 1           Rec: 0007

Code Environment  Description
* _____ *
___ OS/MVS        DEFAULT-ENVIRONMENT FOR OS/MVS
___ PROD1         PRODUCTION 1
___ PROD2         PRODUCTION 2
___ SMA           SMA INSTALLATION
___ DEV           DEVELOPMENT
___ TEST1         TEST INSTALLATION 1
___ TEST2         TEST INSTALLATION 2

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

```

The following commands are available:

Command	Description
CH	Check Environment. SMA will execute a number of checks to detect incorrect specifications. For example, an error will be detected if a product which has Natural as a prerequisite is marked <i>to be installed</i> , but Natural is neither <i>installed</i> nor marked <i>to be installed</i> . Although many checks are performed, it is not possible to detect every inconsistency of parameter values.
CJ	Copy Environment Jobs. All jobs in this environment will be copied. You can specify a new name for the job group and assign a common prefix for the job names.
CL	Clone Environment. A new environment will be created by copying an existing environment. You are prompted for a short descriptive text for the new environment. The first line of this description will be used in the display list of all environments. The following parts of the environment are copied: <ul style="list-style-type: none"> ■ old and new values of all parameters ■ JCL skeletons, if the existing environment is not a default environment ■ list of all available products with the same status
CO	Copy Environment. A new environment will be created by copying an existing environment. You will be prompted for a short descriptive text for the environment. The first line of this description will be used in the display list of all environments. <p>The following parts of the environment are copied:</p> <ul style="list-style-type: none"> ■ old and new values of all parameters

Command	Description
	<ul style="list-style-type: none"> ■ JCL skeletons, if the existing environment is not a default environment ■ list of all available products, with the status of the products set to <i>not installed</i>
DE	<p>Delete Environment. The environment will be deleted.</p> <p>Note: Only SMA-internal data is deleted; no other files are effected, i.e., there is no de-install feature in SMA.</p> <p>Note: A default environment cannot be deleted.</p>
IP	Install Products. See section Install Products .
JB	<p>JCL Generation in batch mode. The environment will be checked and if no errors are detected, the job for generating JCL in batch mode will be submitted. See section JCL Generation for a description of this process. If an error is detected, it can be corrected using the M0 command.</p> <p>Note: This function is not available on BS2000/OSD. On BS2000/OSD, the SMA JCL generation is always executed in Natural batch mode. If the JCL generation is started online (under TIAM or UTM) SMA submits a batch job which performs the generation.</p>
JC	JCL Generation. The online-mode JCL Generator will be started. See section JCL Generation for a description of this process. If an error is detected, it can be corrected using the M0 command.
JO	Generated Jobs. The Generated Jobs screen for the current environment will be displayed. See section Working with Generated Jobs .
MG	Modify Parameter by Group. See section Modify Parameters .
MO	Modify Environment. See section Modifying an Environment .
MP	Modify Parameter by Name. See section Modify Parameters .
MS	Modify JCL Skeleton. See section Modify JCL Skeletons .
RN	Rename Environment. A new name will be given to the environment.
RP	<p>Report Environment. A report will be created for the environment. The report will contain the following information:</p> <ul style="list-style-type: none"> ■ description of this environment ■ list of products which have been installed or are to be installed in this environment ■ list of JCL skeleton which has been modified for this environment ■ list of install parameters and parameter values for this environment
SA	Saved Environment Jobs. The Saved Jobs for Environment menu will be displayed in order to process the saved jobs whose group name is an environment name.
SE	<p>Set Installed. The following status information will be reset:</p> <ul style="list-style-type: none"> ■ all products which have the status <i>to be installed</i> are marked as <i>installed</i> ■ old parameter values are replaced by new values, if specified ■ the status of linked modules which have been changed by the SMA Library Correction function is reset from <i>to be relinked</i> to <i>ok</i>

Command	Description
	<p>This function is useful in two situations:</p> <ul style="list-style-type: none"> ■ after describing an existing environment, you can use this function to document that the products in this environment are already installed ■ the last job generated during JCL generation executes this function in batch mode. Instead of using this job, you may execute this function in dialog mode after successful execution of all generated jobs (except the last one).
TE	Text Description. The descriptive text for this environment is to be modified. A window will appear with four input lines. These lines can be used to provide a brief textual description of the environment. These lines will then appear in the SMA environment reports. The first line of text will also be displayed in the Environment Maintenance screen.
ZA	Apply Zap. A list of corrections for products with status <i>installed</i> or <i>to be installed</i> will be displayed.

JCL Generation

The JCL Generator is activated using the line command `JC` from the Environment Maintenance screen. JCL generation in dialog mode consists of the following steps:

1. The JCL Generator first evaluates which parameter values are new and what products are marked as *to be installed*, and produces a list of all installation steps required.



Note: This step can require a large amount of control data to be evaluated, and therefore may require a considerable amount of time for completion.

2. The *Installation Guide* for the generated jobs and steps is displayed. This list can be printed by pressing `PF9`. The printout will be useful as a checklist when submitting the generated jobs for execution.

By pressing `Enter`, the next page of this report can be displayed. `PF6` can be used to skip the display and continue with JCL generation.

3. JCL generation starts. The job and step number currently being generated are displayed at the bottom of the screen.



Note: If `Enter` or a PF key is pressed during this process, an error may occur, and JCL generation will be interrupted.

After JCL generation has been completed, the number of errors detected during the generation is displayed. If this number is not equal to 0, you should check whether or not a user modification of a JCL skeleton caused an error. If not, Software AG support personnel should be contacted.

Working with Generated Jobs

If the function `J0` is entered in the Environment Maintenance screen after JCL generation has been performed, the list of all generated jobs will be displayed.

```

07:51:23          ***   SYSTEM MAINTENANCE AID   ***           2005-09-28
User:  SAG        - Generated Environment Jobs -           ENJOBM11
Page: 1          Environment:  PROD1                   Rec: 0021

Code   Job          Description          Status
  ___  *_____  *_____          *_____
  ___  Report      Installation Guide   Open
  ___  T955         COPY DATASETS FROM TAPE   Open
  ___  P060         READ ME; DO NOT SUBMIT    Open
  ___  I005         CREATE TABLES FOR TP MONITOR  Open
  ___  I008         ALLOCATE DATASETS        Open
  ___  I009         COPY DATASETS            Open
  ___  I010         INSTALL PERMANENT ADASVC     Open
  ___  I011         INSTALL TEMPORARY ADASVC    Open
  ___  I030         DEFINE AND FORMAT DATABASE  Open
  ___  I040         ADABAS NUCLEUS            Open
  ___  I050         CREATE ADABAS FILES        Open
  ___  I055         ASSEMBLIES OF BATCH NATURAL  Open
  ___  I056         AUXILIARY ASSEMBLIES       Open
  ___  I060         PARM + LINK BATCH NATURAL   Open

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

The following commands are available:

Command	Description
CO	Copy Job. Jobs for an environment must be deleted before the next JCL generation. If you wish to keep a copy of the job (as an example or for later usage), you can use the CO command to copy the job. SMA will prompt for a new name and job group. The Saved Jobs function of the Administration Menu can be used to locate/process a copied job.
DE	Delete Job. The generated job will be deleted. Normally, you should delete generated jobs only after successful execution of all jobs.
DI	Display Job. The job will be displayed.
EX	Export Job to PC File. Work file 7 must be defined for the PC file.
MO	Display/Modify Job. The generated job will be displayed. You can browse through the generated job, using PF7 and PF8 to scroll backwards and forwards, print the job, or modify it before submitting it to the operating system for execution. Usage of the editor is explained in the section Editor Commands. Note: SMA is designed to make changes in the generated jobs unnecessary. If frequent changes of the jobs are required, the job skeletons which are used during JCL generation should be changed. Refer to JCL Skeletons or the appropriate report to determine which skeletons are involved.
PR	Print Job. The job will be printed.
RN	Rename Job. The job will be renamed using the specified name.

Command	Description
SU	<p>Submit Job. The generated job will be submitted to the operating system for execution. Within SMA, a job can have the status:</p> <ul style="list-style-type: none"> ■ Open: The job has been generated and has not yet been submitted ■ Submitted: The job has been submitted. It is possible to submit a job, change it and re-submit it. <p>Note: The order of submitting the generated jobs is checked by SMA. If jobs are not submitted in the correct sequence, a warning message will be issued.</p> <p>The successful execution of a submitted job is <i>not</i> checked by SMA.</p>
TE	Modify Text Description. The text description for the job will be modified.

Modifying an Environment

If the command M0 is entered from the Environment Maintenance screen, the following screen will be displayed.

```

10:12:04          ***  SYSTEM MAINTENANCE AID  ***          2005-09-27
User:  SAG          - Environment Maintenance -          ENMENM01

                Environment: PROD1
Code Maintenance Environment          Code Install Products/Solutions
-----
CO  Copy Environment                  CH  Check Environment
CL  Copy with product status list     IP  Install Products/Solutions
DE  Delete Environment                JB  Submit Job to Generate JCL
RN  Rename Environment                JC  Generate JCL
RP  Report Environment                JO  Maintain/Submit Generated JCL
TE  Modify Environment Description     SE  Set Installed
                                      ZA  Apply Zaps

Code Parameters and Skeletons        Code Saved JCL
-----
MG  Modify Parameters by Group        CJ  Copy Generated JCL
MP  Modify Parameters by Name         SA  Maintain Saved JCL
MS  Maintain Skeletons

Code:  __
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
                Exit                                Canc

```

The commands which can be used are described above in the section [Environment Maintenance](#).

Install Products

If Install Products is selected from the Environment Maintenance screen, or the line command IP is entered from an Environment Maintenance menu, a list of all products and Solution IDs for the environment will be displayed.



Note: SMA by default shows only corrections for products which have been installed in an environment. However you can press PF10 to show all corrections found in SMA, pressing PF10 again will suppress them.

```

09:02:47          *** SYSTEM MAINTENANCE AID 2.2.1 ***          2015-07-29
User:  SAG          - Product & Solution List -          ENPRDM11
Page:  1          Environment: PROD1          Rec: 0253

Code Product      Description          Status
  *          *          *IN
___ ACI 8.3.1      ADABAS CICS INTERFACE  INSTALLED
___ ADA 8.3.2      ADABAS                INSTALLED
___ AOS 8.3.2      ADABAS ONLINE SERVICES  INSTALLED
___ EXB 9.9.0      WEBMETHODS ENTIREX BROKER  INSTALLED
___ EXB 10.0       WEBMETHODS ENTIREX BROKER  TO BE INSTALLED
___ EXP 9.9.0      WEBMETHODS ENTIREX RPC    INSTALLED
___ EXP 10.0       WEBMETHODS ENTIREX RPC    TO BE INSTALLED
___ EXX 9.9.0      WEBMETHODS ENTIREX       INSTALLED
___ EXX 10.0       WEBMETHODS ENTIREX       TO BE INSTALLED
___ ICS 1.4.1      UNICODE AND CODE PAGE SUPPORT (SAGICU)  INSTALLED
___ MLC 1.2.8      MAINFRAME LICENSE CHECKS  INSTALLED
___ NAT 8.2.5      NATURAL                INSTALLED
___ NCI 8.2.5      NATURAL CICS INTERFACE   INSTALLED
___ NTI 8.2.5      NATURAL TSO INTERFACE    INSTALLED
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Menu Exit Sort Prnt  --  -  +  ++  aSol  Canc  ←
    
```

The following commands are provided:

Command	Description
IN	Install. The product will receive the status <i>to be installed</i> . Each product which has this status will be processed by the next JCL generation for this environment.
RE	Reset Status. The status <i>to be installed</i> will be removed. This command can be used if the INSTALL command has been issued inadvertently.
RM	Readme Text. The Readme text for the product will be displayed.
RP	Product Report. A product report will be displayed which contains the following information: <ul style="list-style-type: none"> ■ environments in which the product is <i>installed</i> or <i>to be installed</i> ■ data sets which belong to the product and the volume serial number of the installation tape ■ job/steps used to install the product

Command	Description
UN	Uninstall. The status <i>installed</i> will be set to "-" (<i>not installed</i>). Note: No JCL to uninstall a product is generated. This command only causes the status to be changed in the SMA system file, and has no other effect.

Modify Parameters

This function can be used to modify the install parameters to be used when generating JCL.

Any new value specified will be used during the next JCL generation, and will replace the installed value with the next SET INSTALLED command.

```

08:08:24          ***      SYSTEM MAINTENANCE AID          ***      2005-09-28
User:  SAG          - Modify Parameter Values -          ENPRMM11
Page:  1  sorted by Environment: PROD1                      Rec: 0507
---->
Code Name of Parameter  Installed Value  New Value
*-----*              *-----*              *-----*
___ ACF2
___ ACI-CMDLNK-ENHANCED  N
___ ACI-CMDLNK-31        N
___ ACIVERS              2
___ ADA-CONVERT-DB       N
___ ADA-CREATE-NEW-DB    Y
___ ADA-INSTAL-RAI       N
___ ADA-RAI-MINGENS      5
___ ADACICS              ADABAS
___ ADAENAB              ADAENAB
___ ADATRUE              ADATRUE
___ AFP-BATCH            N
___ APS-GENVNAME         DD:CONFIG
___ APS-POSIX            Y

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

```

A new value may be entered in the corresponding column or by using the commands described below.

Command	Description
DI	Display. A description of the selected parameter will be displayed. Note: For a complete overview of a set of parameters, use report P of the SMA Reports function.
MO	Modify Value. You can use this command to enter a new value for a parameter which is longer than the corresponding column provided. A maximum of 72 characters is permitted.
SD	Set Default. The current parameter value will be set to the value specified in the default environment.
SE	Set Blank. If the new value for a parameter is the value blank, this command must be used to set the new value of a parameter to blank. The JCL Generator will then use a blank value for this parameter. If you want to use this function in batch use following syntax: <pre>MOD PAR <parameter> X'41'</pre>
SI	Set Inactive. The internal active flag will be reset to inactive.
TV	Transfer Value. The parameter values specified in the default environment will be transferred to all other environments. Note: This command is only valid for the default environment.
RP	Report Values. A report will be displayed which contains the parameter values currently defined for each environment.

Modify JCL Skeletons

If this function is selected from the Modify Environment screen, a list of all skeletons available, including a short explanation for each skeleton, will be displayed.



Note: The JCL skeletons which have already been modified for this environment are marked with an "X" in column E.


```

08:10:58          ***      SYSTEM MAINTENANCE AID      ***      2005-09-28
User:  SAG          - Modify JCL Skeletons -          ENSKLM11
Page: 3  sorted by Environment: PROD1          Rec: 0381
      ---->
Code E Skeleton Name      Version      Description
   * * _____ * _____ * _____
___  ADAFRM-RAI            2003-06-12  ADABAS ALLOCATE AND FORMAT RAI-FILE
___  ADAFRM-WORK          2004-09-22  ALLOCATE/FORMAT PLX OR SMP WORK DATASE
___  ADAFRM6              2004-09-22  ADABAS ALLOCATE AND FORMAT DATABASE-FI
___  ADAFRM7              2004-11-18  ADABAS ALLOCATE AND FORMAT DATABASE-FI
___  ADALIBS              2001-08-27  INCLUDE: DD-CARDS FOR ADABAS
___  ADALOD               2004-11-10  ADABAS LOAD FILE (V5)
___  ADANUC               2004-09-22  ADABASE NUCLEUS JOB
___  ADANUC5              2001-08-10  ADABASE NUCLEUS JOB
___  ADAREPS              1992-12-10  ADABAS REPORT STANDARD
___  ADASAV               1998-11-27  ADABAS SAVE STANDARD
___  ADASVCP              2002-02-07  ADABAS SVC PERMANENT INSTALL
___  ADASVCT              2002-02-07  ADABAS SVC TEMPORARY INSTALL
___  ADAULD               1998-09-18  ADABAS ADAULD STANDARD
___  ADAUTIL              2004-11-10  ADABAS UTILITIES

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

```

JCL skeletons are used during JCL generation to expand the installation steps into executable JCL. These JCL skeletons are supplied by Software AG but may be modified by the SMA user. Modifications of JCL skeletons in the default environment are valid for all other environments, whereas modifications of a JCL skeleton in a user environment are valid for that environment only.

Refer to the section JCL Skeletons for a further explanation of JCL skeletons.

The following commands may be used:

Command	Description
CO	Copy Skeleton. The skeleton will be copied.
DE	Delete Skeleton. The skeleton will be deleted.
DI	Display Skeleton. The skeleton will be displayed.
EX	Export Skeleton. The skeleton will be exported to a PC File. Work file 7 must be defined for the PC file.
MO	Modify Skeleton. The skeleton is to be modified using editor commands. See below for more information.
PR	Print Skeleton. The skeleton will be printed.
RP	Report Skeleton. A report will be displayed which shows the environments in which this modified skeleton is used.

Using Editor Commands to Modify the Skeleton

If the command M0 is entered on the Modify JCL Skeletons screen, the editor for modifying the JCL Skeleton will be invoked and the skeleton will be displayed for editing purposes:

Editor commands are described in the section Editor Commands.



Note: Use the character "," as the escape character for line commands. Use PF11 to shift the screen to the right to view line conditions. Use PF10 to shift back (toggle effect).

```

Command ==>
All Environment: PROD1 Skeleton: NAT-USER-PARM-CICS ....7..
0010 PRINTER=(NATSPool,#V-PRINTER-NUM#, #V-PRINTER-PROFILE#, , X
0020 PRINTER=( , , , , PRINTER WITHOUT NAF X
0030 PC, ,PC3), PRINTER LINE 2, WITH PCM X
0040 , ,PC3), PRINTER LINE 2, WITH NTC X
0050 PRT5,PRT6,PRT7), PRINTER LINE 2, WITHOUT PCM X
0060 WORK=12, MAXIMUM NUM. WORK X
0070 WORK=( , , , ,PC), MAXIMUM NUM. WORK X
0080 WORK=( , , , ,PC, ,PC3), MAXIMUM NUM. WORK X
0090 WORK=( , , , , , , , ,PC3), MAXIMUM NUM. WORK X
0100 AUTO=OFF, AUTOMATIC LOGON X
0110 MCG=OFF, NAT OPT OFF/ON X
0120 PC=OFF, PC-CONNECTION ON/OFF X
0130 ADAPRM=ON, USED ONLY FOR REVIEW X
0140 GRAPHIC=OFF, CHANGE TO 'PGF' FOR USAGE OF GRAFICS X
0150 OPRB=NOOPEN, NO EXPLICIT OPEN X
0160 LS=250, LINE SIZE DEFAULT X
0170 PS=80, PAGE SIZE DEFAULT X
0180 STACK=OFF, INITIAL NATURAL COMMDSX
0190 KEY=(PF1='%R',PF2=E,PF3=C,PF4=RUN,PF5=LOGOFF, X
0200 PF7='-20',PF8='+20'), X
.....1.....2. Press PF11 to edit conditions No.of.Lines: 20

```

Reports

This function can be used to create various reports.

The following menu will be displayed:

```

08:14:17          ***      SYSTEM MAINTENANCE AID      ***      2005-09-28
User: SAG                - Reports -                                RPMENM11

  Object              Description
  -----            -
_ Environment         Products / Skeletons / Parameters in Environment
_ JCL Skeleton        Listing of Environment's Skeleton
_ Parameter           Active Parameters in specified Environment
_ Tape                Content of received SAG Tapes/CDs
_ Dataset             Tapes containing Datasets belonging to Product
_ Product             Installation steps / Datasets of Product
_ Parameter           Overview of Parameter's Value
_ Library Corrections Overview of all Library Corrections

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

```

The following types of reports are available:

Report Type	Description
Environment	This report shows the products, JCL skeletons and parameters for the specified environment.
JCL Skeleton	This report shows the JCL skeleton for the specified environment.
Parameter	This report shows the active parameters for the specified environment.
Tape	This report shows the contents of the installation tapes/CDs received from Software AG
Dataset	This report shows the installation tapes and related data sets for the specified product.
Product	This report shows the installation steps and product data sets for the specified product.
Parameter	This report provides an overview of all parameter values.
Library Corrections	This report provides an overview of all library corrections.

These reports are also available using the REP . . . direct commands.

Datasets on Tapes

This function can be used to access and modify installation tape and product data set information.

```

08:15:35          ***      SYSTEM MAINTENANCE AID      ***      2005-09-28
User:  SAG              - Archived Tapes -              TPVOLM11
Page:  1                Rec: 0004

Code Volser  Description                      Add Date
 * _____ * _____ * _____
__ T77955  Software AG Customer              2005-09-27
__ T77966  Software AG Customer              2005-09-27
__ T77967  Software AG Customer              2005-09-27
__ T77968  Software AG Customer              2005-09-27

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

The following commands are available:

Command	Description
DA	Data sets. A list of all data sets on this tape is displayed. You can select one or several data sets by marking it/them with a command. From this point, you can control the copying of data sets from tape to disk.
JC	JCL Generation. JCL is generated for copying those data sets which have been marked as <i>to be copied</i> from the selected tape to disk. Note: This JCL will also be generated automatically when JCL Generation for product installation is requested in the SMA Environment function.
JO	Generated Jobs. The Generated Jobs screen is displayed for all jobs generated with the JCL Generation function.
MA	Mark for Copy. Data sets which can be copied to disk will be marked as <i>to be copied</i> .
PR	Products. A list of all products on this installation tape will be displayed. You can then select a product from this list in order to display the data sets for that product.
RE	Readme Text. Readme text for the installation tape will be displayed. Readme text usually contains the status and/or purpose of the installation tape.

Command	Description
RP	Tape Report. A tape report will be displayed which contains the following information: Datasets and Products.
SE	Set copied. The data set status <i>to be copied</i> is reset to <i>set copied</i> for all data sets on the selected installation tape.

Data Sets of Products

You can use PF11 to access data sets by product.

```

08:20:10          ***      SYSTEM MAINTENANCE AID      ***      2005-09-28
User:  SAG              - Datasets of Product -          TPPERDM11
Page:  1              Op.Sys: OS/MVS   Lib-Group:          Rec: 0029

  Product      Description                                     add Date   add User
  *-----*      *-----*                                     *-----*   *-----*
-  ACI 7.4.3    ADABAS CICS INTERFACE                               2005-09-27  SAG
-  ACI743S001  ACI743 Corrective Tape SOL-ID-ACI743S001          0000-00-00
-  ADA 7.4.3    ADABAS                                              2005-09-27  SAG
-  ADA743S002  ADA743 Corrective Tape SOL-ID-ADA743S002          0000-00-00
-  AOS 7.4.3    ADABAS ONLINE SERVICES                             2005-09-27  SAG
-  APS 2.7.1    SMARTS APPLICATION SERVER                           2005-09-27  SAG
-  BTE 4.2.1    SMARTS LIBBR. (NO INSTALL STEPS)                   2005-09-27  SAG
-  CST 4.5.1    NATURAL CONSTRUCT                                  2005-09-27  SAG
-  CST451P002  CST451 Corrective Tape SOL-ID-CST451P002          0000-00-00
-  NAF 4.1.4    NATURAL ADVANCED FACILITIES                         2005-09-27  SAG
-  NAT 4.1.4    NATURAL                                              2005-09-27  SAG
-  NCF 4.1.4    NATURAL COMPLETE INTERFACE                         2005-09-27  SAG
-  NCI 4.1.4    NATURAL CICS INTERFACE                             2005-09-27  SAG
-  NDV 2.1.4    NATURAL DEVELOPMENT SERVER                          2005-09-27  SAG

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

```

You can then select the data sets of a product for processing by marking them with an "X".

Detailed Data Set Information

The Datasets screen provides detailed information on each data set for a product.

```

08:27:43          ***      SYSTEM MAINTENANCE AID      ***          2005-09-28
User:  SAG              - Datasets On Tape -              TPPDSM11
Page:  1              Volser: T77955  Product: ADA743          Rec: 0010

Code Dataset Name      Description          On Disk As          C
  *-----*          *-----*          *-----*          *
___ ADA743.EMPL          Employees file
___ ADA743.ERRN          Error messages file
___ ADA743.INPL          INPL dataset
___ ADA743.JOBS          MVS Example jobs for installat  SAGLIB.ADA743.JOBS  Y
___ ADA743.LOAD          MVS Load dataset          SAGLIB.ADA743.LOAD  Y
___ ADA743.LX01          MVS X01.LOAD correction    SAGLIB.ADA743.LX01  Y
___ ADA743.MISC          Miscellaneous file
___ ADA743.SRCE          MVS Source dataset          SAGLIB.ADA743.SRCE  Y
___ ADA743.VEHI          Vehicles file
___ ADA743.Z000          MVS 000.Zap Summary

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

You can select one or more data sets for processing by marking it/them with one of the following commands:

Command	Description
DE	Delete Copy. The table entry which describes the copy of a data set (library) will be deleted. Note: This command does not delete the data set itself; only SMA's table entry for this data set is deleted. Note: The record pointing to the Software AG delivery group cannot be deleted.
MA	Mark For Copy. The data set will be marked as <i>to be copied</i> . During the next JCL-generating step, the JCL required for copying from tape to disk will be generated for all data sets on all tapes which have been marked.
MO	Modify. A description of the selected data set will be displayed. You can then modify some of the fields of this data set description. See Dataset Parameters below for more information.
RE	Reset Mark. The status of a data set will be reset from <i>marked to be copied</i> to <i>not marked</i> .

Modifying Copy Parameters

If a data set is selected using the command M0 from the Product Datasets screen, the data set parameters will be displayed for possible modification.

```

08:31:58          ***      SYSTEM MAINTENANCE AID      ***      2005-09-28
User:  SAG              - Copy Parameters -              TPCDSM11

Volser ..... T77955
Name on tape ACI743.SRCE
Description ..... MVS Source dataset
Symbolic Dataset Name ACI743.SRCE
Dataset Organization PO
Size (Kilo byte) .... 49

Dataset created on .. 2005-09-27 10:01:04
Dataset copied on.... 2005-09-28 07:51:12

Library Grp  SAGLIB_____
Name on Disk SAGLIB.ACI743.SRCE_____
Disk ..... VVVVVV
Device Type  3390_____

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

```

The following data set parameters which are used when copying data sets from tape to disk may be changed:

- Library Group
- Name on Disk



Note: SMA uses Name on Disk to determine whether or not the data set resides on disk. A blank name indicates that the data set is currently not available on disk.

- Disk where the data set is stored
- Device Type of this disk

If the data set has been marked *to be copied*, SMA will use default values for the above fields if they are blank.

Library Corrections

This function is used to apply corrections (Zaps, source changes, module replacements) to the Software AG product libraries.

- [Library Selection](#)
- [Display/Modify Corrections](#)
- [Working With Generated Correction Jobs](#)

Library Selection

If function Z is chosen in the SMA Main Menu, a list of all library groups will be displayed.

```

08:33:27          ***      SYSTEM MAINTENANCE AID      ***      2005-09-28
User:  SAG          - Library Corrections -          COLBGM11
Page:  1          Rec: 0001

Code  Library Group
*_____
__  SAGLIB

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

The following commands are available:

Command	Description
DI	Display/Modify Correction. All corrections for the selected library group will be displayed. See below for additional information.
JC	Generate JCL. JCL will be generated for corrections in the library group with the status <i>to be applied</i> or <i>to be undone</i> . For more information, see JCL Generation .
JO	Generated Jobs. The Generated Jobs screen for this library group will be displayed.

Command	Description
SE	Reset Status. All corrections within the library group with the status <i>to be applied</i> or <i>to be undone</i> will receive the status <i>applied</i> or <i>undone</i> respectively.

Display/Modify Corrections

A screen listing all library corrections for the library group will be displayed:

```

08:38:02          ***      SYSTEM MAINTENANCE AID      ***      2005-09-28
User:  SAG                - Library Corrections -          COZAPM11
Page:  1                  Library Group: SAGLIB              Rec: 0056

Cmd  Corr. Nr.  T  Dataset Name          Status
  *      *      -  *
-----
___  NA64001    Z  SAGLIB.NAT414.LOAD
___  NA64002    Z  SAGLIB.NAT414.LOAD
___  NA64003    Z  SAGLIB.NAT414.LOAD
___  NA64004    Z  SAGLIB.NAT414.LOAD
___  NA64005    Z  SAGLIB.NAT414.LOAD
___  NA64006    Z  SAGLIB.NAT414.LOAD
___  NA64007    Z  SAGLIB.NAT414.LOAD
___  NA64008    Z  SAGLIB.NAT414.LOAD
___  NA64009    Z  SAGLIB.NAT414.LOAD
___  NA64010    Z  SAGLIB.NAT414.LOAD
___  NA64011    Z  SAGLIB.NAT414.LOAD
___  NA64012    Z  SAGLIB.NAT414.LOAD
___  NA64013    Z  SAGLIB.NAT414.LOAD
___  NA64014    Z  SAGLIB.NAT414.LOAD

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

```

This list shows the data set names of the affected libraries, and provides the following information per correction:

- identification number of the correction
- correction type (Z= Zap, S= source change, L= load module replacement)
- status of the change

The status of a change may be any of the following:

Status	Description
To Be Applied	The line command APPLY has been entered for this correction, but the direct command SET-APPLIED has not yet been executed.
Applied	The line command APPLY has been issued for this correction, and the direct command SET-APPLIED has been executed.
To Be Undone	The line command UNDO was entered for this correction, but the direct command SET-APPLIED was not executed. The generated job will contain the Zap in a reverse form, where all VERIFY(s) are converted to REPLACE(s) and vice versa.
Undone	The line command UNDO was entered for this correction, and the direct command SET-APPLIED was executed.
blank	The correction was neither applied nor undone.

The following commands are available:

Command	Description
AP	Apply Correction. The status for this change will be reset from <i>blank</i> or <i>undone</i> to <i>to be applied</i> .
CO	Copy a Correction. A window will be displayed for entering target parameters for copying the correction.
DE	Delete Correction. The correction in the selected library group will be deleted from SMA. Note: This command cannot be used if the correction has already been applied in any library group.
DI	Display Correction. The selected correction will be displayed.
EX	Export Correction. The selected correction will be exported to a PC file. Work file 7 must be defined for the PC file.
MO	Modify Correction. A screen will be displayed which can be used to enter modifications. Note: This command is only valid if there is a Y in the Ed column in the list of changes. Note: This command cannot be used if the correction has already been applied in any library group.
RE	Reset Status. The status will be reset from <i>to be applied</i> to <i>blank</i> or from <i>to be undone</i> to <i>applied</i> respectively.
UN	Undo Correction. The status will be reset from <i>applied</i> to <i>to be undone</i> .

Modify Correction

If the command MO is entered, the editor for modifying the correction will be invoked and the correction will be displayed for editing purposes:

```

Command ==>
Top    Change: NA64001      Type: Z DSN: NAT414.LOAD      > +
                                           ....6....+....7..

0010 * PRODUCT: NAT414
0020 *
0030 * ZAP: NA64001 PROBLEM(S): 264305
0040 * BY: MK AT 11:04:58 ON 2005-06-27
0050 *
0060 * SYMPTOMS: NUS0216 abend when using TEST to debug programs.
0070 *           Problem occurs because used length of IOPAGE is
0080 *           set greater than its size by the page-in function.
0090 * DESCRIP.: Increase page buffer IOPAGE before it is too late.
0100 NAME NATURAL NATSP
0110 VER 05FA 5050,600C
0120 VER 0952 B952,B954,B956,B958,B95A,B95C,B95E,B960
0130 VER 0962 B962,B964,B966,B968,B96A,B96C,B96E,B970
0140 VER 0972 B972,B974,B976,B978,B97A,B97C,B97E,B980
0150 VER 0982 B982,B984,B986,B988,B98A,B98C,B98E,B990
0160 VER 0992 B992,B994,B996,B998,B99A,B99C,B99E,B9A0
0170 VER 09A2 B9A2,B9A4,B9A6
0180 REP 05FA 47F0,B952
0190 REP 0952 5950,6008,4720,B962,5050,600C,47F0,B5FE
0200 REP 0962 D713,D048,D048,D203,D048,A010,D201,D064

.....+.....1.....+.....2.....+.....3.....+.....4.....+.....5...No.of.Lines: 29

```

You can modify the DSN of the library where this correction is to be applied. In addition, you can modify the text of the correction using editor commands.

Working With Generated Correction Jobs

If the J0 command is entered, a screen with all generated correction jobs will be displayed:

```

08:41:01          *** SYSTEM MAINTENANCE AID ***          2005-09-28
User:  SAG          - Generated Correction Jobs -          COZJBM11

Reposition to Job: _____ Op.Sys: OS/MVS   Lib.Group: SAGLIB
Cmd   Job         Description          Date      Time   Status
___   Z010        SAGLIB:APPLY ZAPS   2005-09-28 08:40  Open

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

The following commands are available:

Command	Description
CO	Copy Job. If you wish to keep a job (as an example or for later usage) enter the COPY command for this job. SMA will prompt for a new name and job group.
DE	Delete Job. The job will be deleted. Normally, all generated correction jobs should be deleted after successful execution of all jobs.
DI	Display Job. The job will be displayed.
EX	Export Job to PC File. Work file 7 must be defined for the PC file.
MO	Modify Job. The generated correction job will be displayed for modification. You can browse through the generated job, using PF7 and PF8 to scroll backwards and forwards, print the job, or modify it before submitting it to the operating system for execution. Usage of the editor for modification is explained in the section Editor Commands. Note: SMA is designed to make changes in the generated jobs unnecessary. If frequent changes of the jobs are required, the job skeletons which are used during JCL generation should be changed. Refer to JCL Skeletons or the appropriate report to determine which skeletons are involved.
PR	Print Job. The selected job will be printed.
RN	Rename Job. The job will be renamed using the specified name.
SU	Submit Job. The generated job will be submitted to the operating system for execution. Within SMA, a job can have the status: ■ Open: the job has been generated and has not yet been submitted

Command	Description
	<ul style="list-style-type: none"><li data-bbox="358 233 1476 310">■ Submitted: the job has been submitted. It is possible to submit a job, change it and re-submit it. <p data-bbox="358 331 1476 373">The successful execution of a submitted job is <i>not</i> checked by SMA.</p>
TE	Modify Text Description. The text description for the job will be modified.

