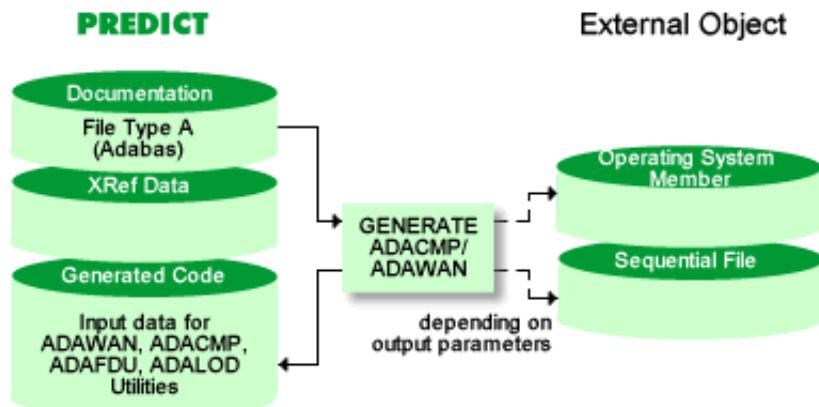


ADACMP, ADAWAN, ADAFDU and ADALOD Definitions

The function Generate ADACMP/ADAWAN Definitions generates input data for the Adabas compression / load utilities from Predict file objects of type A (Adabas files). The definition generated depends on the parameters Adabas version and Generate loader.



Note:

For more information see the section **Compression** or **ADACMP** in the **Adabas Utilities documentation**.

Calling the Function

The Generate ADACMP/ADAWAN Definitions screen is displayed with function code G and object code AC in a Predict main menu, or with one of the commands GENERATE ADACMP or GENERATE ADAWAN.

```

13:04:49          ***** P R E D I C T  4.2.2  *****
Plan    0          - Generate ADACMP/ADAWAN Definitions -

File ID ..... HNO-FI1
Phys. File number.....
Contained in DA .....
Phys. Database number ..

Save as member .....
Overwrite option ..... N      (Y,N)          Save in library .... WANLIB
Punch / output .....* N      (Y,N)          Op. system member ..
Generate loader ..... N      (Y,N)          UES ..... N (Y,N)
List generated code .... Y      (Y,N)          Adabas version ....* I7
List input file .....* D
Input file ID .....
NUMREC ..... -1      (-1=zero)        Cipher code .....
Occurrences used .....* Y
Record length ..... *      (*,number)       Record format ....* 
Device statistics ..... Y      (Y,N)

Command ===>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Next Stop Last LnkEl Flip Print Impl AdmFi SelFi Prof Main

```

Values for input fields which have been locked by your data dictionary administrator cannot be overwritten. These fields are skipped when positioning the cursor with the TAB key. See Generation Defaults
The parameter below can be changed in the Modify ADAWAN/ADACMP Defaults screen.

Presetting	
Library system	Determines which type of operating system statements are generated in the external object before the data definitions. This parameter only applies if you set the parameter Punch/Output to Y and specify an operating system member under Op. system member.

The parameters Save as member, Save in library, Overwrite option, Op. system member, Punch/output, Workfile name and List generated code are described in Parameters Specifying the Form of Output. The parameter Punch/output has an additional value for this external object type and is described below.

Parameters	
File ID, Phys. file number, Contained in DA, Phys. database number	The ADACMP, ADAWAN, ADAFDU and ADALOD definitions can be generated for one specific Adabas file in a database. This file is uniquely defined by the physical file number and the physical database number. This file can be identified by these four parameters. If the parameters are not unique, a selection screen appears. It is also possible to generate the definitions for an Adabas file which is not linked to any database. In this case the currently defined file attributes are taken.
Punch/Output	In addition to the standard options you can also specify the value D for this external object type: Download to PC (Write to workfile 7). For this setting, the following prerequisites must be met: <ul style="list-style-type: none"> ● Workfile 7 must be defined in the session variables as a PC file. ● Parameter Save as member must be specified

Adabas version	<p>The version of Adabas for which the external object is to be generated. Enter an asterisk for valid values or see Adabas Version for more information.</p> <p>This parameter determines the utility for which cards are generated. See table below.</p>			
	Code	Version	Generated Card Format	Note
	I1	V 5.1 for IBM/ Siemens	ADACMP	If parameter Generate loader is set to Y , ADALOD definitions are generated as well. See Additional ADALOD Parameters
	I2	V 5.2 for IBM /Siemens		
	I3	V 5.3 for IBM/ Siemens		
	I6	V 6 for IBM/ Siemens		
	I7	V 7.1 for IBM/ Siemens		
	O4	V 4.1 for IBM/ Siemens	ADAWAN	
	U1	V 1.1 for UNIX	ADAFDU	If parameter Generate loader is set to N, only field definitions are generated.
	U2	V 1.2 for UNIX		If Generate loader is set to Y, ADAFDU file definitions are generated in addition to the field definitions. See Additional ADAFDU Parameters
	U3	V 2.1 for UNIX		
	U4	V 2.2 for UNIX		
	U5	V 3.1 for UNIX/NT		
	V2	V 2.1 for VMS	ADACMP	Only field definitions are generated.
	V3	V 3.1 for VMS	ADAFDU	If parameter Generate loader is set to N, only field definitions are generated.
	V4	V 3.2 for VMS		If Generate loader is set to Y, ADAFDU file definitions are generated in addition to the field definitions. See Additional ADAFDU Parameters
	V5	V 4.1 for VMS		
	P1	V 1.0 for OS/2.	ADACMP	
	P2	V 1.2 for OS/2.	ADAFDU	

Generate loader	The system behavior depends on the card format to be generated. The card format in turn depends on the parameter Adabas version. See table above and Additional ADALOD Parameters and Additional ADAFDU Parameters. You can only set this parameter to Y for the following Adabas versions: I1, I2, I3, I6, I7, U1, U2, U3, U4, U5, V3, V4, V5.
UES	If you set this parameter to Y a window appears in which you can specify additional parameters concerning UES support. These parameters are described in detail in your Adabas documentation. You can only set this parameter to Y if the database for which the ADACMP cards are to be generated has the Predict attribute UES set to Y or if the file doesn't belong to any database. You can only set this parameter to Y for Adabas version I7. See Additional Parameters For UES Support for details.
List input file	This parameter is only evaluated if an input file is entered. Y The attributes of the fields of the input file and their corresponding Adabas fields are listed. N Attributes are listed only for incompatible fields. D All differences between the attributes of the input file and of the Adabas file are listed.
Input file ID	ID of the Predict file object from which the format buffer of the input file for the ADACMP utility is to be generated. In Adabas Version 5 and above, the compression utility need not use the standard format buffer layout based on the FDT: the order and format of the fields can be defined in a file specified by this parameter. This file must either be sequential (file type S) or a userview (File type U) of the Adabas file. A sequential file specifies fields using their field IDs; a userview specifies them using their field short names. Note: Only applies to Adabas Version 5 and above for IBM/Siemens.
NUMREC	A NUMREC parameter with the value provided is generated in the ADACMP control statement. If the value in this field is zero, it is ignored. If NUMREC = -1 the option NUMREC = 0 is inserted. Note: Only applies to Adabas Version 5 and above for IBM/Siemens.
Cipher code	Applies only to files marked as ciphered. The value of the cipher code parameter to be generated in the ADACMP control statement. Note: Only applies to Adabas Version 5 and above for IBM/Siemens.

Occurrences used	<p>This parameter determines how many occurrences of periodic groups and multiple value fields are taken from the input record and used by the Adabas compression utility.</p> <p>Valid values:</p> <p>Y The number of occurrences defined in Predict is taken.</p> <p>M The maximum number of occurrences is always taken: for multiple value fields: 191 for periodic groups: 99 or 191 depending on the Adabas version.</p> <p>N No occurrences.</p> <p>Note: If you are generating for V 1.0 for OS/2 (Adabas Version=P1), this parameter must be set to Y. For Adabas on UNIX systems Occurrences used must be set to N.</p>
Record length	<p>A LRECL parameter with the value provided is generated in the ADACMP control statement.</p> <p>0, blank Field is ignored.</p> <p>* If an asterisk is entered, the record length of the input file is calculated for the LRECL parameter. This is only possible if the input record contains neither periodic groups with variable occurrences nor multiple value fields with variable occurrences.</p> <p>Note: Only applies to Adabas Version 5 and above for IBM/Siemens.</p>
Record format	<p>A RECFM parameter with the value provided is generated in the ADACMP/ADAWAN control statement.</p> <p>Valid values: F, FB, V, VB, U or blank.</p> <p>Note: Only applies to Adabas Version 5 and above for IBM/Siemens.</p>
Device statistics	<p>Y The device option is generated for the default data device type or for all data device types of the linked database.</p>

Additional ADALOD Parameters

If you set the parameter Generate loader to Y for Adabas Version I1, I2, I3, I6 or I7, a window appears in which you can specify additional parameters for the ADALOD utility. See your Adabas documentation for a detailed description of these parameters.

```
+-- Additional parameters for ADALOD -----+
!
! Format DS/index .. Y (Y,N) !
! SORTDEV .....* 3380 !
! TEMPDEV .....* 3380 !
! SORTSIZE ..... 25 C/B ... C !
! TEMPSIZE ..... 30 C/B ... C !
! ISN pool size .... KB/B .. KB !
! Work pool size ... KB/B .. KB !
! SKIPREC ..... !
! ETID ..... !
! Force allocation . Y (Y,N) !
+-----+
```

You can modify the default values in the window Additional parameters for Loader of the function Modify ADAWAN/ADACMP Defaults.

ADACMP definitions are generated first, followed by ADALOD definitions. See example below.

```
\ \
ADALOD LOAD
ADALOD FILE=77
ADALOD NAME=CHD-A-FILE
ADALOD ACRABN=1
ADALOD ASSOPFAC=10
ADALOD DATAFRM=YES
:
:
```

The ADALOD utility must be called explicitly using the ADALOD definitions generated with this function.

Additional ADAFDU Parameters

If you set the parameter Generate loader to Y for Adabas version U1, U2, U3, U4, U5, V3, V4 or V5, a window appears in which you can specify additional parameters for the ADAFDU utility. These parameters are described in detail in your Adabas documentation.

```
+-- Additional parameters for ADAFDU -----+
!
! Format DS/Index .. Y (Y,N) !
! Contiguous AC .... Y (Y,N) !
! Contiguous DS .... Y (Y,N) !
! Contiguous NI .... N (Y,N) !
! Contiguous UI .... N (Y,N) !
+-----+
```

You can modify the default values in the window Additional parameters for Loader of function Modify ADAWAN/ADACMP Defaults.

Additional Parameters For UES Support

If you set the parameter UES to Y for Adabas Version I7 or above, a window appears in which you can specify additional parameters for the ADACMP utility.

```
+----- Additional parameters for -----+
!     Universal encoding Support      !
!
! UARC                                !
!   Byte order .....*                !
!   Encoding family .....*          !
!   Floating point format ..*       !
! Code pages                            !
!   UACODE .....* 273                !
!   UWCODE .....* 285                !
!
+-----
```

See your Adabas documentation for a detailed description of these parameters.

You can modify the default values in the window Additional parameters for Universal encoding Support of the function Modify ADAWAN/ADACMP Defaults.

Generate ADACMP, ADAWAN, ADAFDU or ADALOD Definitions in Batch Mode

Commands: GENERATE ADAWAN or GENERATE ADACMP

Parameters can be entered in positional or keyword form. File ID is obligatory, all other parameters are optional. If a parameter is not specified, the default value is taken.

Field	Keyword	Position
File ID	FILE-ID	1
Save as member	MEM	2
Save in library	LIB	3
Overwrite option	REPLACE	4
Op. system member	OS-MEMBER	5
NUMREC	NUMREC	6
Record length	LRECL	7
Record format	RECFM	8
List generated code	LIST	9
Punch / output	PUNCH	10
Occurrences used	USE-OCC	11
Input file ID	INFILE-ID	12
List input file	LIST-IN	13
Cipher code	CIPHER	14
Adabas version	ADA-VER	15
Device statistics	DEVICE	16
Phys. file number	FNR	17
Database ID	DB	18
Phys. database number	DBNR	19
Workfile name (see note below)	WORKFILE-NAME	20
If Entire System Server is used		
- DB-ID	NP-DBID	21
- Dataset	NP-DSNAME	22
- Volume	NP-VOLSER	23
- Library	NP-LIB	24
- Sublibrary	NP-SUBLIB	25
- Member type	NP-MEMTYPE	26
- VSAM catalog	NP-VSAMCAT	27

Note:

You can not specify a value other than blank (' ') for WORKFILE-NAME on mainframes.

Parameters NP-LIB, NP-SUBLIB and NP-MEMTYPE must be specified if the generated code is written to workfile 1 (Punch/output=Y) and Library system=3.

Field	Keyword	Position
Generate Loader	FILE-ATTRIBUTES	28
Additional ADAFDU parameters		
Format DS/Index	FORMAT-DS-IND	29*
Contiguous AC	CONTIG-AC	30
Contiguous DS	CONTIG-DS	31
Contiguous NI	CONTIG-NI	32
Contiguous UI	CONTIG-UI	33
Additional ADALOD parameters		
Format DS/index	FORMAT-DS-IND	29*
SORTDEV	SORTDEV	34
TEMPDEV	TEMPDEV	35
SORTSIZE	SORTSIZE	36
SORTSIZE C/B	SORTSIZE-T	37
TEMPSIZE	TEMPSIZE	38
TEMPSIZE C/B	TEMPSIZE-T	39
ISN pool size	LIP	40
ISN pool size KB/B	LIP-T	41
Work pool size	LWP	42
Work pool size KB/B	LWP-T	43
SKIPREC	SKIPREC	44
ETID	ETID	45

* Parameter FORMAT-DS-IND may be used for ADAFDU as well as ADALOD.

Field	Keyword	Position
Additional UES parameters		
UES	GEN-UES	46
Byte order	BYTE-ORDER	47
Encoding family	ENC-FAMILY	48
Floating point format	FLOATING	49
UA code	UACODE	50
UW code	UWCODE	51

Sample Output

***** P R E D I C T 4.2.2 *****										2002-07-31			
- Generate ADACMP Definitions -										Page: 1			
Input file: GEN-EXAM-ADACMP-INPUT													
File type : SEQUENTIAL file													
Cnt	Ty	L	Field name Corresponding ADABAS Field			F	Length	D	U	DB	S	Occ	ADABAS F Leng.
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1	1	ELE-N-9V5				N	7.05			N		U	12
	2	ELE-N-9V5				N	9.05		AB	N		U	14
	>>> FIELD LENGTH DEFINITION IS DIFFERENT <<<												
	>>> ADABAS FIELD LENGTH IS DIFFERENT <<<												
3	1	ELE-PS-5V2				PS	5.00			N		P	3
	3	ELE-PS-5V2				PS	5.02		AE	N		P	4
	>>> FIELD LENGTH DEFINITION IS DIFFERENT <<<												
	>>> ADABAS FIELD LENGTH IS DIFFERENT <<<												
8	1	SB-ELE-A-5				A	5.00					A	5
	SB	1	SB-ELE-A-5			A	5.00		AJ	N		A	5
	>>> FIELD TYPE IS DIFFERENT <<<												
9	PE	1	PC-OCC-7										2
	PC	1	PC-OCC-7										7
	>>> NUMBER OF OCCURRENCES IS DIFFERENT <<<												

13:18:34	***** P R E D I C T 4.2.2 ***** - Generate ADACMP Definitions -	2002-07-31 Page: 2
 File ID .. GENERATION-EXAMPLE		
ADACMP COMPRESS ADACMP FILE=171 ADACMP FORMAT='AB,12,AD,AE,3,AF1-5,AG,AH,AI,AJ,AM1,AN1(1-11),AP1,AQ1' ADACMP FORMAT='',AM2,AN2(1-11),AP2,AQ2,AS,AU.' ADACMP LRECL=242 ADACMP NUMREC=0 ADACMP MINISN=1 ADACMP DEVICE=3390 ADACMP FNDEF='01,AA' GROUP-1 ***** ADACMP FNDEF='02,AB,14,U,NU' ELE-N-9V5 2002-07-31 ADACMP FNDEF='02,AC' GR-IN-GROUP 13:18:34 ADACMP FNDEF='03,AD,4,B,DE,FI' ELE-B-4 ***** ADACMP FNDEF='03,AE,4,P,NU' ELE-PS-5V2 ADACMP FNDEF='03,AF,4,B,NU,MU' MU-B-4 ADACMP FNDEF='02,AG,42,A,NU' ELE-A-42 ADACMP FNDEF='02,AH,8,G,FI' ELE-F-8 ADACMP FNDEF='02,AI,3,B,NU' ELE-B-3 ADACMP SUBFN='AJ=AG(10,14)' SB-ELE-A-5 ADACMP SUPDE='S1=AI(1,3),AG(20,36),-' SP-DE-A-24 ADACMP 'AE(1,4)' ADACMP FNDEF='01,AL,PE' PC-OCC-7 ADACMP FNDEF='02,AM,10,U,DE,NU' PC-ELE-DE-NS-7V3 ADACMP FNDEF='02,AN,4,P,DE,NU,MU' PC-MC-PS-6V1 ADACMP FNDEF='02,AO' PC-GR ADACMP FNDEF='03,AP,2,B,FI' PC-ELE-I-2 >>> CHANGE: FORMAT NOT SUPPORTED BY GIVEN ADABAS VERSION. <<< ADACMP FNDEF='03,AQ,14,P,NU' PC-PS-20V7 ADACMP FNDEF='02,AR,4,G,FI' PC-ELE-F-4 >>> WARNING: FIELD NOT FILLED BY INPUT FILE. <<< ADACMP FNDEF='01,AS,4,P,NU' ELE-D >>> CHANGE: FORMAT 'D'/'T' CHANGED TO 'P'. <<< ADACMP FNDEF='01,AT,7,P,NU' ELE-T >>> WARNING: FIELD NOT FILLED BY INPUT FILE. <<< >>> CHANGE: FORMAT 'D'/'T' CHANGED TO 'P'. <<< ADACMP FNDEF='01,AU,1,B,NU' ELE-L ADACMP HYPDE='04,S2,4,F,FI,MU,PE=AP,AF' HQ-DE-I-4 >>> CHANGE: OPTION FI REQUIRED BY ADABAS. <<<		

```
//  
ADALOD LOAD  
ADALOD FILE=171  
ADALOD NAME=GENERATION-EXAMP  
ADALOD ASSOPFAC=10  
ADALOD DATAFRM=YES  
ADALOD DATAPFAC=10  
ADALOD DSDEV=3390  
ADALOD DSREUSE=YES  
ADALOD DSSIZE=233B  
ADALOD ISNREUSE=NO  
ADALOD MAXISN=3391  
ADALOD MINISN=1  
ADALOD NISIZE=80B  
ADALOD NUMREC=0  
ADALOD SORTDEV=3380  
ADALOD SORTSIZE=25  
ADALOD TEMPDEV=3380  
ADALOD TEMPSIZE=30  
ADALOD UISIZE=41B  
  
DIC1800 SUMMARY: 27 FIELD(S) PROCESSED  
DIC1825 WARNING: 2 WARNING(S) IN GENERATION FUNCTION ISSUED  
DIC1815 WARNING: 4 CHANGE(S) IN FIELD DEFINITIONS MADE
```