

# **Adabas Online System**

## **File Maintenance**

Version 7.4.4

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This document applies to Adabas Online System Version 7.4.4 and to all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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# 1 File Maintenance

---

Selecting File Maintenance (option "F") from the Adabas Online System main menu invokes File Maintenance menu:

```
08:02:59          ***** A D A B A S  BASIC SERVICES  *****          2005-11-22
                   - File Maintenance -                               PFL0002
                   Code      Service
                   -----
                   C      Define/modify FDT
                   D      Release descriptor
                   E      Delete existing file
                   F      Define new file
                   M      Modify file parameters
                   O      Reorder file online
                   R      Refresh file to empty status
                   S      Allocate/deallocate file space
                   X      Maintain expanded files
                   ?      Help
                   .      Exit
                   -----
Code ..... _
File No ..... 0      Descriptor Name .. __
Database ID .. 105   (RD-105)

Command ==>
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help              Exit                               Menu
```

Options "C" (Define/modify FDT) and "X" (Maintain expanded files) on this menu display additional menus. The other file maintenance options require you to enter a valid file number and database ID. Option "D" (Release descriptor) also requires that you specify the name of the descriptor to be released.

The Adabas Online System File Maintenance documentation is organized in the following topics:

Code	Function
C	<b>Define / Modify FDT</b> allows you to change the length of a field; add a field to a file; create a new field definition table (FDT); or create a special descriptor table (SDT).
D	<b>Release Descriptor</b> allows you to release a field from descriptor status by freeing the specified field's inverted list in the Associator.
E	<b>Delete Adabas File</b> allows you to free extents used by an existing Adabas file.
F	<b>Define a New File</b> allows you to define a new database file for which an FDT has already been created.
M	<b>Modify File Parameters</b> allows you to modify the padding factor, the maximum compressed record length, file number, file name, extent allocation for NI/UI/AC/DS, ISN reusage, and DS reusage.
O	<b>Reorder File Online</b> allows you to start a process to reorder the Associator, Data Storage, or the entire file.
R	<b>Refresh File to Empty Status</b> allows you to delete all file records and assign a single extent to each file component.
S	<b>Allocate or Deallocate File</b> allows you to create or remove extents for the address converter, normal and upper index, and Data Storage of a file.
X	<b>Maintain Expanded Files</b> allows you to insert or remove a component file into/from an expanded file chain.

## 2 Define / Modify FDT

---

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▪ Change Field Parameters .....	5
▪ Define a New Field Definition Table (FDT) .....	7
▪ Invert a File Online .....	8
▪ Define a Special Descriptor Table (SDT) .....	9

Selecting option "C" on the File Maintenance menu displays the FDT/SDT Definition / Modification menu:

```
08:34:30          ***** A D A B A S  BASIC SERVICES *****          2005-11-22
                  - FDT/SDT Definition / Modification -                PFLC002

                Code      Service
                ----      -
                A        Add new field(s)
                C        Change field parameters
                D        Define new FDT
                I        Online invert
                S        Define/add SDT
                ?        Help
                .        Exit
                ----      -

                Code ..... _
                File No. .... 50
                Field Name ... __
                Database ID .. 00105 (RD-MPM105)

                Command ==>
                PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
                Help      Def. File Exit                                Menu
```

This chapter covers the following topics:

## Add One or More Fields

---

From this menu you can add one or more fields to an existing Adabas file.

▶ **To add a new field definition to the field definition table (FDT) of an existing file**

- 1 Select option "A" (add new fields).
- 2 Specify the number of the existing file.
- 3 Specify a two-character field name that is not currently being used by the specified file.
- 4 Press ENTER.



**Note:** You can view the FDT of the existing file by selecting option "R", *Database Report*.



A screen similar to the following is displayed providing input fields for defining a new field:

```
08:39:13      ***** A D A B A S  BASIC SERVICES  *****      2005-11-22
DBID 1955      - Add New Field(s) -      PFLCA02

File = 1      (EMPLOYEES)      In Parallel .. NO
Enter Password if file is security protected ...

      Level I Name I Length I Format I Options      I
      -----
      I      I      I      I      I      I
      I      I      I      I      I      I
      I      I      I      I      I      I
      I      I      I      I      I      I
```

The option **In Parallel** allows processing to continue against a file while the function you have selected modifies the file. Specify "YES" to select this option. With this option, Adabas performs the function while all applications executing against the file are temporarily quiesced and suspended. File integrity is always maintained. For this reason, your applications that are executing against the file may experience difficulty. Please maintain an awareness of the impact on your environment and the consequences of performing your selected functions against a file when using this option.

With this option set to "NO" (the default), Adabas requires exclusive file control (that is, no application executing against the file) when performing the function.

The Add New Field(s) function corresponds to the Adabas utility function ADADBS NEWFIELD. The equivalent direct command is

```
ADD FIELD
```

## Change Field Parameters

From this menu you can also change the parameters of a field in an existing Adabas file.

### ▶ To change the parameters of an existing field in an existing file

- 1 Select option "C" (change field parameters).
- 2 Specify the number of the existing file.
- 3 Specify the name of the existing field to be changed.
- 4 If the file is protected, enter the password.
- 5 Press ENTER.



**Note:** You can view the FDT of the existing file by selecting option "R", *Database Report*.

```
08:57:01      ***** A D A B A S  BASIC  SERVICES *****      2005-11-22
DBID 1955      -   Change Field Parameters   -                   PFLCC02

Enter New Field Length:

File ..... 1
File Name ..... EMPLOYEES
Field Name ..... AA

Field Format ... A
Field Length ... 8
Field Option ... __
In Parallel .... NO

File Password ..
```

From the resulting Change Field Parameters screen, you can change

- the standard length of an Adabas field;
- a normal alphanumeric (A) field to a long-alpha (LA) field;
- the default field format from unpacked (U) to packed(P); or
- the setting of the In Parallel option.

Only one of these parameters may be changed at a time.

No modifications to records in Data Storage are made by this function. The user is, therefore, responsible for preventing references to the field that would cause invalid results because of an inconsistency between the new parameter value as defined to Adabas and the actual value contained in the record.

▶ **To change the length of the field**

- Enter the new value in the `Field Length` field.

▶ **To add the "LA" (long alphanumeric) option to a field with format "A" (alphanumeric)**

- Enter "LA" in the `Field Option` field.

▶ **To change the format of an elementary field from "U" (unpacked) to "P" (packed)**

- Overwrite the "U" in the `Field Format` field with "P".

An elementary field defined as format "U" can only be changed to "P" if the field

- has not been defined with the field option "FI" (fixed storage length);
- is not the parent of a sub-/super-/hyperdescriptor; and

- is not within an expanded file chain.

This function corresponds to the Adabas utility function ADADBS CHANGE. The equivalent direct command is

```
CHANGE FIELD file-number field-name
```

## Define a New Field Definition Table (FDT)

### ▶ To define a new FDT

- Select option "D" (define new FDT) and press ENTER.

The following screen appears, which can be used to define a new FDT for a new file:

```
09:13:34          ***** A D A B A S   BASIC SERVICES   *****      2005-11-22
DBID 105          - Define FDT -                       PFLCD02

File Number ... 200                                     New FDT ... Y
Enter Field Description(s) :
```

I	Level	I	Name	I	Length	I	Format	I	Options	I
I	---	I	---	I	---	I	---	I	---	I
I	---	I	---	I	---	I	---	I	---	I
I	---	I	---	I	---	I	---	I	---	I
I	---	I	---	I	---	I	---	I	---	I
I	---	I	---	I	---	I	---	I	---	I
I	---	I	---	I	---	I	---	I	---	I
I	---	I	---	I	---	I	---	I	---	I
I	---	I	---	I	---	I	---	I	---	I
I	---	I	---	I	---	I	---	I	---	I
I	---	I	---	I	---	I	---	I	---	I
I	---	I	---	I	---	I	---	I	---	I
I	---	I	---	I	---	I	---	I	---	I

```
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help      Def SDT    Exit      Def File  Disp FDT  Menu
```

FDTs for existing files cannot be redefined with this option.

This function corresponds to the Adabas utility function ADACMP COMPRESS. The equivalent direct command is

```
DEFINE FDT
```

## Invert a File Online



**Note:** This function is only available for Adabas version 7 or above databases.

Selecting "Online Invert" (option "I") displays the following screen:

```

09:17:06          ***** A D A B A S  BASIC SERVICES *****      2005-11-22
DBID 105          - Online Invert -                               PFLCI02

File Number ... 5      EMPLOYEES
Password .....

Enter the definition, using the syntax of the ADADBS ONLINVERT utility:

_____
_____

Note: Only one Invert Process can be active for a file at any time.

Examples:
FIELD='AA'                HYPDE='01,HD,20,A,NU,MU=AA,AB'
SUBDE='SB=AA(1,5)'        PHONDE='PH(AA)'
SUPDE='SP=AA(1,5),BB(1,2),CC(3,5)' COLDE='1,CD=AA'

Enter Descriptor information and press 'enter'

PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help                Exit                Menu

```

The specified file must be currently loaded.

You must use the ADADBS ONLINVERT syntax. PF1 provides help information for this syntax; see the *Adabas Utilities* documentation for additional information.

Only one descriptor can be specified per process.

Only one invert process can be active for a file at any time. If an attempt is made to start a second invert process before the first one has completed, a response code 64 is returned.

The equivalent direct command is

```
ONLINE INVERT
```

## Define a Special Descriptor Table (SDT)

Option "S", "Define/add SDT", is available only if an FDT exists but no file control block (FCB) exists for the file (for example, if the FDT has been created but no records loaded, or if the file was deleted with the option to retain the FDT).

Selecting option "S" displays the following screen, which can be used to define special descriptors in an existing FDT for a new file:

```

09:24:41          ***** A D A B A S  BASIC SERVICES  *****          2005-11-22
DBID 105          - Define SDT -          PFLCH02

File Number ... 50
Password .....

Enter SDT-Definition, using the syntax of the ADACMP Utility:

_____  

_____  

_____  

_____  

_____  

_____  

_____  

_____  

_____  

_____

Enter SDT information and press 'enter'

PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help      Def File  Exit      Refresh      Menu

```

### ▶ To define new super-/sub-/hyperdescriptors, phonetic descriptors, and super-/subfields in an existing FDT

- Use ADACMP syntax (see the *Adabas Utilities* documentation) on this screen.

This function corresponds to the Adabas utility function ADACMP COMPRESS. The equivalent direct command is

```
DEFINE STD
```



# 3 Release Descriptor

---

Option "D", "Release Descriptor", from the File Maintenance menu removes a descriptor by freeing the specified field's inverted list in the Associator. Field names listed in the field definition table (FDT) with an option of "DE" are descriptors.



**Note:** You can view the FDT of the existing file by selecting option "R", *Database Report*, from the main menu.

## ▶ To release a descriptor

- 1 Select option "D" (Release Descriptor).
- 2 Specify the number of the existing file.
- 3 Specify the name of the existing descriptor to be released.
- 4 Press ENTER.
- 5 Confirm the release on the resulting screen:

```
09:37:28          ***** A D A B A S  BASIC SERVICES ***** 2005-11-22
DBID 1955          - Release Descriptor -                      PFLD002

Descriptor Name .. AA
File Number ..... 1
File Name ..... EMPLOYEES
Password .....
In Parallel ..... NO

Enter 'RELEASE' to confirm .. _____
```

PF1-----	PF2-----	PF3-----	PF4-----	PF6-----	PF7-----	PF8-----	PF12-----
Help		Exit		Confirm			Menu

This function corresponds to the Adabas utility function ADADBS RELEASE. The equivalent direct command is

```
RELEASE DESCRIPTOR file-number descriptor
```



## 4 Delete Adabas File

---

Option "E" is used to free extents used by an existing file for use by other existing files or newly added files.

You have the option to save the field definition table (FDT) so that the field description of the deleted file remains in the database and can be used for a subsequent new file definition.

If the file to be deleted is a coupled file, it must first be uncoupled using option "U" or the UNCOUPLE direct command.

```
09:44:59          ***** A D A B A S  BASIC SERVICES *****          2005-11-22
DBID 105                      - Delete File -                      PDMD002

File Number ..... 200
File Name ..... TEST-FILE

Enter File Name to confirm delete ... _____

Save Field Description Table ..... N

File Password .....
```

This function corresponds to the utility function ADADBS DELETE.

The equivalent direct command is

```
DELETE FILE file-number
```



# 5 Define a New File

Before option "F", "**Define New File**", can be used to add a new file to the specified database, an FDT must be defined for the file. Alternatively, you may choose to use an already existing FDT (retained from a Delete File function run with the "SAVE FDT" option).

► **To add a new file for which an FDT has been defined**

- 1 Select option "F" (define new file).
- 2 Specify the number of the file to be added.
- 3 Specify the database to which it will be added.
- 4 Press ENTER.

If the file already exists in that database, a message is displayed at the top of the menu.

```
09:59:38          ***** A D A B A S  BASIC SERVICES  *****      2005-11-22
DBID 105          - Define File -                               PFLF002

File Name ..... TEST-80_____
MAXISN ..... _____
Datastorage Size .. _____ B (BLKs/CYLs)
Normalindex Size .. _____ B (BLKs/CYLs)
Upperindex Size ... _____ B (BLKs/CYLs)
-----
ACRABN .....          MINISN .....* 1          Anchor Fnr ..
DSRABN .....          ISN Size ..... 3 Byte      Ciphering ... N
NIRABN .....          ISN Reuse .....* N
UIRABN .....          DS Reuse .....* Y          Alpha Code .....
ASSO padding .* 10 %    DATA device .....* 8391      Wide Code .....
DATA padding .* 10 %    MIXDSDEV ..... N          User Wide Code .

Max Blks:              Max comp. rec.len . 10792  Multi Client
  DS extents ..        Index Compression . N          Support ..... N
```

```

NI extents ..          No AC Extention ... N          Owner-ID Len ... 8
UI extents ..          Program Refresh ... N

PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help                Exit                ADAM                Menu
    
```

This function corresponds to the utility function ADALOD LOAD.

The equivalent direct command is

```

DEFINE FILE file-number
    
```

► To specify parameters for an ADAM file

- Press PF7 (ADAM).

The following ADAM File Information window appears:

```

10:07:34          ***** A D A B A S  BASIC SERVICES *****          2005-11-22
DBID 105          - Define File -          PFLF002

File Name ..... TEST-80_____
MAXISN ..... 100_____
Datastorage Size .. 5_____ B (BLKs/CYLs)
Normalindex Size .. 5_____ B (BLKs/CYLs)
Upperindex Size ... 5_____ B (BLKs/CYLs)
-----
ACRABN ..... |-----| Anchor Fnr ..
DSRABN ..... | ADAM File Information: | Ciphering ... N
NIRABN ..... | | Alpha Code .....
UIRABN ..... | ADAMDE (field/ISN). | Wide Code .....
ASSO padding .* 10 | ADAMPARM ..... | User Wide Code .
DATA padding .* 10 | ADAM Overflow ..... |
| ADAM Dataform ..... Y |
Max Blks: |-----| Multi Client
DS extents .. | | Support ..... N
NI extents ..          No AC Extention ... N          Owner-ID Len ... 8
UI extents ..          Program Refresh ... N

PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help                Exit                ADAM                Menu
    
```

# 6

## Modify File Parameters

---

- Change Padding Factors, Maximum Allocation, and Record Length ..... 19
- Rename or Renumber the File ..... 19
- Select File Options ..... 19
- Change Code Pages ..... 20

► To modify parameters for a file

- 1 Select option "M" (modify file parameters).
- 2 Specify the number of the file to be modified.
- 3 If the file is protected, supply the password.
- 4 Press ENTER.

The Modify File Parameters screen is displayed:

```

10:19:39      ***** A D A B A S  BASIC SERVICES  *****      2005-11-22
DBID 1955          -  Modify File Parameters  -                PFLM002

File No. ... 1
File Name .. EMPLOYEES
-----
                                Max. Allocation
ASSO PFAC ..... 10                UI Blks per extent .. 0
DATA PFAC ..... 10                NI Blks per extent .. 0
Max. RECL ..... 4816              DS Blks per extent .. 0

New File Name .. EMPLOYEES_____ ISN Reuse ..... OFF
New File No. ... 1                  with RESET ..... ____
                                   in Parallel .... NO
User ISN ..... OFF                 DS Reuse ..... ON_
                                   with RESET ..... ON_
                                   in Parallel
File Password ..                    Mixed DS Device..... OFF
                                   Program Refresh ..... OFF
AlphaNum Encoding .. 0
WideChar Encoding .. 0

PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help                Exit                Men
    
```

This function corresponds to the utility function ADADBS MODFCB.

The equivalent direct command is

```

MODIFY FILE file-number
    
```

This chapter covers the following topics:

## Change Padding Factors, Maximum Allocation, and Record Length

You can use the Modify File Parameters screen to change the Associator and Data Storage padding factors for the file, the maximum number of blocks that can be allocated (for a new Data Storage, normal index, or upper index extent), and the maximum compressed record length allowed.

The "padding factor" is the percentage (%) of each Associator or Data Storage block that is reserved; that is, not loaded. This area is used to create new records later. The range is from 3 to 90 percent. The factor size allocated should depend on the amount of updating that is expected. The number of bytes left in the Associator after padding must exceed the largest descriptor value by at least 10.

## Rename or Renumber the File

On the same Modify File Parameters screen, you can change the name or number of the file using the `New File Name` or `New File No` fields.

The equivalent direct commands are

```
RENAME FILE file-number
```

```
RENUMBER FILE file-number
```

## Select File Options

You can also turn off or on several file options on this screen:

```
User ISN
ISN Reuse ...with RESET
Data Storage Reuse ...with RESET
Mix Data Storage Dev
Program Refresh
```

ISN Reuse and Data Storage Reuse determine whether ISNs and Data Storage blocks for deleted records are reused as new records are added to the file. The equivalent direct commands are

```
REUSE ISNS file-number
```

```
REUSE DS file-number
```

When setting either of these two options to "ON", you can also set the RESET option "ON" to start the search for an unused ISN and/or Data Storage block at the beginning of the file.


## Change Code Pages

---

If the file was loaded using universal encoding support (UES), the code values may be changed on this screen.



# 7 Reorder File Online

 **Note:** This function is only available for Adabas version 7 or above databases and is not available in the Cluster or Parallel Services environments. It cannot be started for the checkpoint or security files.

Selecting Reorder File Online (option "O") from the File Maintenance menu displays the following screen, which can be used to start an online reorder process for the specified file:

```
10:25:37      ***** A D A B A S  BASIC SERVICES *****      2005-11-22
DBID 105              - Online Reorder File -              PFL0002

Reorder for file... 5      EMPLOYEES
Password....

-----
Type of Reorder..... _
Options:  Asso Padding Factor.. __
          Data Padding Factor.. __
          Sort Sequence..... ____
```

► **To select the type of reorder to be performed**

- Enter one of the following reorder type codes:

Reorder type	Corresponds to ADADBS ...	Reorders ...
B (both)	ONLREORFILE	the entire file
A (Associator)	ONLREORFASSO	the Associator for the file only
D (Data Storage)	ONLREORFDATA	Data Storage for the file only

The only file level parameters that can be changed using this function are the padding factors. If these fields are left blank, the current parameter settings are used during the reorder.

When reordering Data Storage for a file, you can specify a sort sequence. The default is physical sequence or "PHY". Other possible options include "ISN" if the file is to be sorted in ISN order, or the two character descriptor name to sort the file according to the value of the specified descriptor.

ONLINE REORDER

The equivalent direct command is

# 8 Refresh File to Empty Status

---

Option "R", Refresh File to Empty Status , deletes all file records and assigns a single extent to each file component.

▶ **To refresh a file to empty status**

- 1 Select option "R" (refresh file to empty status).
- 2 Specify the number of the existing file in the specified database.
- 3 Press ENTER.
- 4 Confirm the refresh on the resulting screen:

```
10:35:38          ***** A D A B A S  BASIC SERVICES  *****      2005-11-22
DBID 105          - Refresh File -          PFLR002

File Number ... 200
File Name ..... TEST-FILE
Password .....

Enter File Name to confirm ... _____
```

This function corresponds to the utility function ADADBS REFRESH.

The equivalent direct command is

```
REFRESH FILE file-number
```



# 9 Allocate or Deallocate File Space

---

▶ **To allocate or deallocate space for a file**

- 1 Select option "S" (allocate/deallocate file space).
- 2 Specify the file to be modified.
- 3 If the file is protected, supply the password.
- 4 Press ENTER.

The resulting Allocate/Deallocate File Space screen is used to create or remove extents for the address converter, normal index, upper index, and Data Storage of a file. You can specify the allocation in blocks or in cylinders, a starting relative Adabas block number (STARTRABN), and the device where allocated space is to be located.

```
10:45:12          ***** A D A B A S  BASIC SERVICES  *****          2005-11-22
DBID 105          - Allocate/Deallocate File Space -          PFLS002

File Number ..... 200
File Name ..... TEST-FILE

Enter Parameters :                               Possible values:
Allocate/Deallocate ... _                       (A/D)
Table Type ..... _                             (AC/DS/NI/UI)
Size .....
Blocks or Cylinders ... B                       (B/C)
Start RABN ..... _____
Device Type ..... _____
File Password .....
```

This function corresponds to the utility functions ADADBS ALLOCATE and ADADBS DEALLOCATE.

The equivalent direct commands are

## Allocate or Deallocate File Space

---

```
ALLOCATE SPACE file-number
```

```
DEALLOCATE SPACE file-number
```

# 10 Maintain Expanded Files

Selecting option "X" on the File Maintenance menu displays the Expanded File Maintenance menu:

```
10:51:56          ***** A D A B A S  BASIC SERVICES *****          2005-11-22
                  - Expanded File Maintenance -                      PFLX002

                  Code      Service
                  ----      -
                  I        Insert file into chain
                  R        Remove file from chain
                  ?        Help
                  .        Exit
                  -----

Code .....
File No. .... 75
Master Fnr ...
Password .....
Database ID .. 105      (RD-105)
```

This function corresponds to the utility functions ADALOD LOAD and ADALOD UPDATE.

## ▶ To insert an existing file into an expanded file chain

- 1 Select option "I".
- 2 Specify the number of the file to be inserted (File No field).
- 3 Specify the number of the master file of the expanded file chain into which the file is being inserted (Master Fnr field).
- 4 Press ENTER.



**Note:** If the file to be inserted is to be the first (master) file of the chain, both File No and Master Fnr fields must be set to the same value.

▶ **To remove a component file from an expanded file chain**

- Select option "R" and specify just the number of the file to be removed (`File No` field) from the chain.

If the file to be removed is the master file, the next file in the chain will become the new master file.



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