

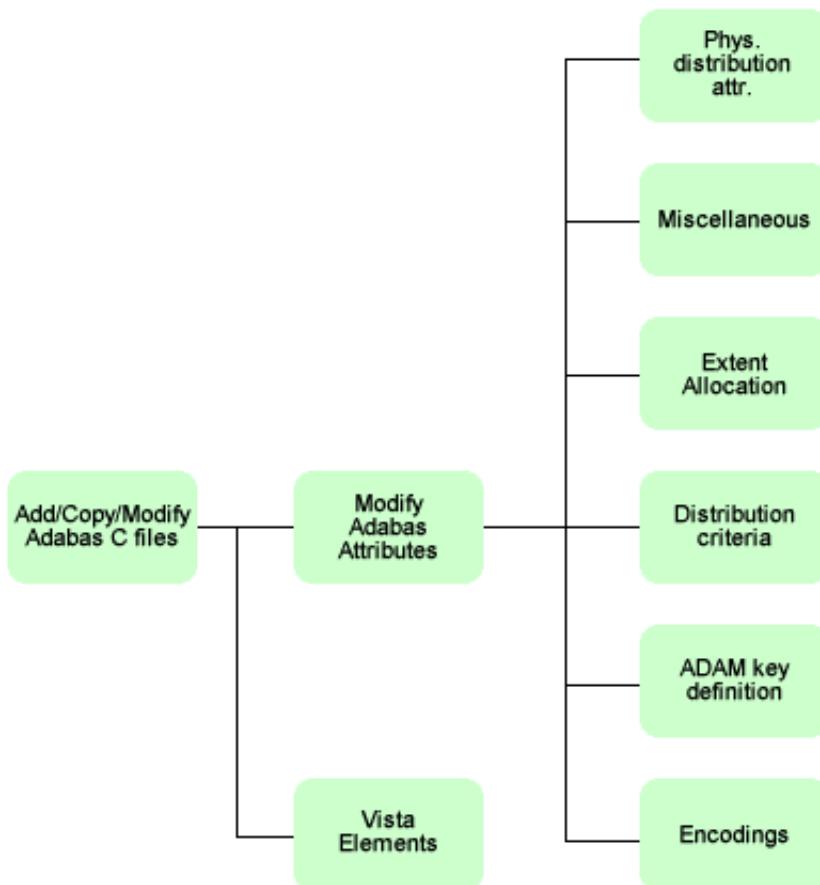
# Documenting Files of Different Types

## Adabas Files, File Type A

Adabas files are defined in several subsequent input screens.

Screens on lower levels are called by specifying Y in one of the fields MORE attributes in the EDIT line of the higher-level screens.

The following diagram gives an overview of the input screens and the sections where these screens are described. Click into the diagram to jump to the respective section.



## Add/Copy/Modify File Screen

```
09:28:21          ***** P R E D I C T 4.2.2  *****
                     - Add a file -
File ID ..... HNO-A-FILE
Type ..... ADABAS C, Simple file
File number ..... 123
Contained in DA .
Keys ..          Zoom: N

Literal name .....
Average count .....
Stability .....* Not specified
Sequence field .....*
Vista Access DBnr .....*
Vista Access Fnr .....
ADABAS C SQL usage ..... N (Y/N)
Abstract       Zoom: N
```

```
EDIT: Owner: N Desc: N Has Fields: N MORE Attr.: Y
```

**Note:**

Parameters common to all object types are described under Global Attributes.

For parameters common to all file types see Common File Attributes.

<b>Parameters</b>	
Sequence field	The descriptor to be used by Natural for logical sequential reading. Determines the sequence in which records are delivered by the READ LOGICAL statement. The GENERATE DDM function will use this field as the default READ LOGICAL field in the Natural data definition module.
Vista Access DBnr, Vista Access Fnر	The L-DBnr and L-Fnr are used as database and file number for function Generate DDM if the parameter Use Vista access-nr is set to Y or T in the Generate DDM menu. Valid values are 0 to 65535 for DBnr and Fnر. No check for uniqueness is performed.  <b>Note:</b> This parameter should not be confused with the Vista parameter Vista number, which is used to identify a file uniquely within a network. See Including the Definition in the Vista Table in the section <b>Adabas Vista</b> in the Predict and Other Systems documentation
Adabas SQL usage	<b>Y</b> File is accessible via Adabas SQL Server.  <b>Note:</b> When you add a file, this parameter can be specified in the Add a file screen. To change the value of this attribute for a file that already exists, use the Rename/rename file function (see Rename File).
<b>Additional Options in the EDIT Line</b>	
MORE Attr.	<b>Y</b> Two types of additional attributes can be specified: <ul style="list-style-type: none"> <li>● Adabas attributes</li> <li>● Vista elements.</li> </ul> The screens for entering Adabas attributes are described in the sections below.

## Modifying Adabas Attributes

There are different ways of calling the initial Modify Adabas attributes screen:

- specify Y in the field MORE attributes in the EDIT line and mark Adabas attributes in selection window
- select function Modify Adabas Attributes (code J) in the File Maintenance menu
- enter command .A in the file editor of a database object
- enter command MODIFY ADA-ATTR.

```

13:19:12          ***** P R E D I C T  4.2.2  *****
          - Modify ADABAS attributes -
File ID ..... HNO-NEW3                         Added 2002-07-31 at 13:19
Type ..... ADABAS, Simple file                  by HNO
in database .....

Required attributes                               Physical distribution type
  Phys. file number ...* 123                      Simple file
  Min ISN ..... 1
  Max ISN ......

Device      Cylinder Blocks   Padding factor  Max 2. alloc
*-----      ----- ----- -----
ASSO        3390    UI           10
            NI
DATA        3390    DS           10

Loading attributes                             Loading attributes
  Max recl. .....
  ISN reusage ..... N (Y,N)
  User ISN ..... N (Y,N)                       One AC extent ..... N (Y,N)
                                                DS reusage ..... Y (Y,N)
                                                Mixed DS device ..... N (Y,N)

EDIT:  Owner: N   Desc: N   Has Fields: N     MORE:  Attributes: N

```

**Note:**

Up to six additional input screens can be called from this screen.

### Parameters

#### Required attributes

Phys. file number	If a database is specified, the file number is taken as a physical file number automatically if this is possible. If not, a free physical number can be selected from a selection window.
Physical distribution type	The distribution type of the physical file which describes how the logical file is stored. Read only field.
Min ISN	ADALOD LOAD parameter MINISN.
Max ISN	ADALOD LOAD parameter MAXISN.

### Device and Size Specification for Adabas Files

```

.....
.....
Device      Cylinder Blocks   Padding factor  Max 2. alloc
*-----      ----- ----- -----
ASSO        3380    UI           10
            NI
DATA        3380    DS           10
.....
.....
```

The device type and the size of the Upper Index (UI), Normal Index (NI) and Data Storage (DS) can be specified. If the size is specified in blocks, the equivalent size in cylinders provided by Predict is preceded by greater than (>) if the number of cylinders does not match exactly. If the size is specified in cylinders, Predict provides the equivalent size in blocks.

The maximum secondary allocation in blocks can also be specified in each case.

Four characters specify the type of device used to store this part of the file. This device type must already be defined in the Predict database object containing this file. When this device type is changed in the database, the same change should be made in every file object contained in the database.

DATA padding factor	ADALOD LOAD parameter DATAPFAC.
ASSO padding factor	ADALOD LOAD parameter ASSOPFAC.
Device	The device type of the Upper Index (UI), Normal Index (NI) and Data Storage (DS). The device type for Data Storage is ADALOD LOAD parameter DSDEV.
Size (Cylinders/Blocks)	ADALOD LOAD parameters UISIZE (Upper Index), NISIZE (Normal Index) and DSSIZE (Data Storage).

**Note:**

See also Extent allocation.

<b>Loading attributes</b>	
Max recl.	ADALOD LOAD parameter MAXRECL.
ISN reusage	ADALOD LOAD parameter ISNREUSE.
User ISN	ADALOD LOAD parameter USERISN.
One AC extent	ADALOD LOAD parameter NOACEXTENSION.
DS reusage	ADALOD LOAD parameter DSREUSE.
Maximum secondary allocation	ADALOD LOAD parameters MAXUI (Upper Index), MAXNI (Normal Index) and MAXDS (Data Storage).
<b>Additional Options in the EDIT Line</b>	
MORE Attributes	<b>Y</b> Displays a window for specifying the following Adabas attributes: <ul style="list-style-type: none"> <li>● Phys. distribution attr.</li> <li>● Miscellaneous attributes</li> <li>● ADAM key definition</li> <li>● Extent allocation</li> <li>● Distribution criteria</li> <li>● Encodings</li> </ul>

**Note:**

Phys. distribution attr. and Extent allocation only appear in this window if applicable.

## Phys. distribution attr.

```

13:19:12          ***** P R E D I C T  4.2.2  *****
                  - Modify ADABAS attributes -
File ID ..... HNO-NEW3                                Added 2002-07-31 at 13:19
Type ..... ADABAS C, Partitioned                      by HNO
Contained in DA . HEB-55-HEB-NW-V (PDBnr: 55)

Distribution attribute
  Phys. distribution type ..* P  Partitioned

Loading attributes
  Min ISN ..... 1
  Max ISN .....
  One AC extent ..... N (Y,N)

EDIT:   Owner: N   Desc: N   * Has Fields: N

```

### Parameters

Phys. distribution type The types for the physical file are limited by the logical distribution type, as shown in the following table:

Physical distribution Type	Logical distribution Type
E expanded	E expanded
P partitioned	P partitioned
blank simple File	any

## Miscellaneous Attributes

```

13:33:18          ***** P R E D I C T  4.2.2  *****
                  - Modify ADABAS attributes -
File ID ..... HNO-NEW3                                Added 2002-07-31 at 13:19
Contained in DA .                                     by HNO
PDBnr ..... PFnr ... 123

ADABAS Security definition
  Access level ..... (0-15)
  Update level ..... (0-15)

Loading attributes
  Ciphered ..... N (Y,N)
  LOWERID ..... 0 (0-8)
  Refresh from program ... N (Y,N)
  Automatic allocation ... Y (Y,N)
  PLOG ..... Y (Y,N)
  ISN size ..... * 0
  Erase ..... Y (Y,N)
  Index compression ..... N (Y,N)

```

<b>Parameters</b>	
Access level	The Adabas access security level of the file.
Update level	The Adabas update security level of the file.
Ciphered	<b>Y</b> The file is a ciphered file.
LOWNERID	Parameter used in Adabas Version 5.3 and above.
Refresh from program	Adabas parameter PGMREFRESH. See the Adabas DBA Reference documentation.
Automatic allocation	<b>Y</b> Adabas will automatically allocate and deallocate extents. See the Adabas Reference documentation.
PLOG	<b>Y</b> Database runs with protection log. UNIX only.
ISN Size	Length of ISN.  Valid values: 0, 2, 3 and 4.  For Adabas/UNIX: 0, 2 and 4 are valid.  For mainframes: 0, 3 and 4 are valid.
Erase	<b>Y</b> For Adabas/UNIX. All index and data storage blocks are overwritten with zeroes when they are returned to the free space table.
Index compression	<b>Y</b> Adabas reduces space requirements for the index and for data storage by removing redundant information on an individual descriptor basis.

## Extent Allocation - Size Specifications For More Than One Extent

More than one extent can be specified using the Extent allocation option in the Modify Adabas attributes selection window.

The size and first RABN (Start Rb) of the Address Converter (AC), Upper Index (UI), Normal Index (NI) and Data Storage (DS) can be specified for up to five extents. The total space allocated is displayed in the upper right corner of the screen.

```

13:47:50          ***** P R E D I C T 4.2.2 *****          2002-07-31
                  - Modify ADABAS attributes -
File ID ..... HEB-FI-PART          Modified 2002-07-31 at 09:24
Contained in DA . HEB-DA-TRANS          by FST
PDBnr ..... 21    PFnr ... 1

Extent *Device Start RABN Cylinder   Blocks      +-- Total -----
!           Cylinder     Blocks   !
1  AC 3390             1          !  AC          1      !
!  UI 3390              !  UI          !      !
!  NI 3390              !  NI          !      !
!  DS 3390              !  DS          !      !
+-----+-----+-----+-----+-----+-----+-----+
2  AC
UI
NI
DS

3  AC
UI
NI
DS

EDIT:  Owner: N  Desc: N          * Has Fields: N          Scroll to: 1

```

## Specifying Restrictions on Input Data - Distribution Criteria

Distribution criteria determine which data can be written to a file.

```

13:13:39          ***** P R E D I C T 4.2.2 *****          2002-07-31
                  - Modify ADABAS attributes -
File ID ..... PD-AD1          Modified 2002-07-31 at 10:08
Contained in DA . DEMO-DB          by PD
PDBnr ..... 180    PFnr ... 13

Ty Partitioning field          F  Cs Length  Occ  D U DB N NAT-1
-- *-----+-----+-----+-----+-----+-----+-----+-----+
1  Access ....*      Critical ..* (Y,N)  Shared Partition ..  (Y,N)
Part. name .
High value .          Zoom: N

2  Access ....*      Critical ..* (Y,N)  Shared Partition ..  (Y,N)
Part. name .
High value .          Zoom: N

3  Access ....*      Critical ..* (Y,N)  Shared Partition ..  (Y,N)
Part. name .
High value .          Zoom: N

EDIT:  Owner: N  Desc: N          * Has Fields: N          Scroll to:

```

<b>Parameters</b>	
Partitioning field	ID of the field used to distribute data into separate partitions. The field must exist in the file.
Access	Specifies the access level of a partition.  <b>F</b> Full. Read/write access is permitted.  <b>R</b> Read. Read-only access is permitted.  <b>N</b> No access.
Critical	Specifies whether a partition is considered critical or not.  <b>Y</b> Critical.  <b>N</b> Not critical.
Shared Partition	Specifies whether to allow partition sharing for minimal data movement or not.  <b>Y</b> Allowed.  <b>N</b> Not allowed.
Value	Value to be checked. If the value is longer than 50 characters, set Zoom to Y.
Scroll to	If more validation criteria are specified than can be displayed in one screen, the criteria to be displayed on top of the list can be specified in the field Scroll to.

## Modifying ADAM Descriptor Definition

```

13:40:40          ***** P R E D I C T  4.2.2  *****
                           - Modify ADABAS attributes -
File ID ..... HNO-NEW3           Added 2002-07-31 at 13:34
Contained in DA .                  by HNO
PDBnr ..... PFnr ... 123

ADAM descriptor definition
Field ID .....*
Parm .....
Overflow .....

```

Parameters	
ADAM descriptor definition	
Field ID	Fields to be used as ADAM descriptor. ADALOD LOAD parameter ADAMDE.
Parm	ADALOD LOAD parameter ADAMPARM.
Overflow	ADALOD LOAD parameter ADAMOFLOW.

## Modifying Vista elements

```

13:51:47          ***** P R E D I C T  4.2.2  *****
                                         - Add Vista element -
File ID ..... JPE340                         Modified 2002-07-31 at 13:50
Type ..... ADABAS C, Partitioned             by HEB

Network ..... * HOME
Simple ..... Y (Y,N)                         Partition ID assignment .. * V Vista
Vista
Environment ID .
DBnr ..... 1                                 Max number of partitions .. 255
Fnr ..... 3                                 Enable Read-by-ISN ..... Y (Y,N)
Name .....                                     Part. file concurrency .... 8
                                              Store control option ..... * 1 Reject

Database
*-----  -----  -----  -----
1

```

EDIT: Owner: N Desc: N \*Has Fields: N Scroll to:

### Parameters

See the section Including the Definition in the Vista Table in the section **Adabas Vista** in the Predict and Other Systems documentation for a description of all parameters.

### Encodings

Universal encoding support of an Adabas file can be defined in the screen shown below.

```
13:40:40          ***** P R E D I C T  4.2.2  *****
                     - Modify ADABAS attributes -
File ID ..... HNO-NEW123                         2002-07-31
Contained in DA . HNO-TEST                         Modified 2002-07-31 at 13:34
PDBnr ..... 12      PFnr ... 123                 by HNO
```

Universal encoding support

```
FACODE ..*      none
FWCODE ..*      none
FUWCODE ..*     none
```

EDIT: Owner: N Desc: N

\*Has Fields: N

**Note:**

See the **Adabas Administration documentation** for further information on this topic.