

rdb

13:27:16	***** P R E D I C T 4.3.1 *****	2003-05-31
	- Add a file -	
File ID	HNO-RDB	
Type	rdb file	
File number	123	
Contained in DA	
Keys ..		Zoom: N
Literal name		
Average count		
Stability	* Not specified	
Sequence field	*	
Abstract	Zoom: N	

Note:

Parameters not listed below are described in other sections of this documentation:

Parameters common to all object types, for example Keys, are described under Global Attributes.

Parameters common to all file types, for example Literal name, are described under Common File Attributes.

See also Common Parameters for SQL File Types.

Parameters	
File ID	ID of the file object.
Contained in DA	ID of the database containing the file (see Contained in DA).
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.

IMS

IMS Segment Layouts and Userviews - File Types J and K

```

13:13:40          ***** P R E D I C T 4.3.1 *****          2003-05-31
                    - Add a file -
File ID ..... HNO-J
Type ..... IMS seg. layout
File number ..... IMS segment: CHD-ARTCHD-ART
Contained in DA .
Keys ..                                               Zoom: N

Literal name ....
Average count ...
Stability .....*   Not specified
IMS attributes
  Segment name .. ART           Parent ....
  min. length ...             Source-1 ..
  max. length ... 32000       Source-2 ..
  Segment type ..
Abstract      Zoom: N

Additional attributes ..* N          Associations ..* N
    
```

The following attributes of an IMS segment (type I) are shown for that file and for the related files of types J and K.

Note:

Parameters not listed below are described in other sections of this documentation:
 Parameters common to all object types, for example Keys, are described under Global Attributes.
 Parameters common to all file types, for example Literal name, are described under Common File Attributes.
 See also Common Parameters for SQL File Types.

Parameters	
File number	The number of the file. A read only field. The number of the related IMS segment is shown. See File Number for more information.
IMS attributes	
Segment name	The name of the IMS segment from which the related Predict file object of type I was incorporated.
Min. length	The minimum length of the IMS segment (zero if the length is fixed).
Max. length	The maximum length of the IMS segment (if it is fixed).
Segment type	The type of the IMS segment. Possible values: <ul style="list-style-type: none"> ● Logical child (C) ● Logical (L) ● Physical (P) ● Virtual (logical) child (V). <p>Segments of type logical occur only in logical IMS databases. Segments of types child, physical and virtual occur only in physical IMS databases.</p>
Parent	The ID of the Predict file object of type I incorporated from the parent segment of the IMS segment (the segment one level above it in the hierarchical structure of the IMS database). For a root segment, this field is left blank.
Source-1	The following rules apply: <ul style="list-style-type: none"> ● For a segment of type V, the ID of the Predict file object of type I that was incorporated from the related segment of type C. ● For a segment of type L, the ID of the Predict file object of type I that was incorporated from the segment of a physical database from which this segment of a logical database is derived. ● For a segment of type CHILD or P, this field is left blank.
Source-2	The following rules apply: <ul style="list-style-type: none"> ● For a segment of type LOGICAL derived from a segment of type C, the ID of the Predict file object of type I that was incorporated from the logical parent of the segment of type C. ● For a segment of type LOGICAL derived from a segment of type V, the ID of the Predict file object of type I that was incorporated from the logical parent of the segment of type V (the physical parent of the related segment of type C). ● For any other segment, this field is left blank.

Editing Field Lists of IMS Files

Restrictions that apply when editing a field list of an IMS file depend on the type of the IMS file and are described in the table below.

File Type	Restrictions
I (IMS Segment)	<p>The following attributes can be maintained: ID, keywords, owners, abstract, format, NAT hdr1-3 (Natural headers), NAT editm (Natural edit mask), 3GL specification, Condition name & value and Field name synonyms.</p> <p>See Defining Basic Attributes of Fields and Defining Additional Attributes of fields in the section Field in this documentation.</p> <p>No fields can be added or deleted. Format changes are rippled across related files of type J or K. Only the following changes of format are allowed:</p> <ul style="list-style-type: none"> ● between P (packed) and PS (packed signed); ● between P6 or P7 and D (date); ● between P12 or P13 and T (time).
J (IMS Segment Layout)	<p>The following rules apply:</p> <ul style="list-style-type: none"> ● A file of type J can contain user-defined fields and fields of the related file of type I. The two-character short names of the user-defined fields must fall within the range preceding the parameter Start in logical defined by the DDA in the Miscellaneous defaults of the Modify General Defaults function. Its value is normally HA. ● Fields of the related file of type I that are included in a File of type J must have the same attributes in the File of type J as they have in the file of type I. ● Their offset in the file of type J must be the same as their IMS-OFFSET in the file of type I. <p>For a variable-length segment, only one field in one file of type J can be defined as variable length.</p> <ul style="list-style-type: none"> ● If it is a field, it must be the last field in the segment. ● If it is a multiple value field or a periodic group, it can be anywhere in the segment. ● However, if it is not the last field, its maximum occurrence must be specified. <p>Predict checks that the above conditions are met when the field list of the file is cataloged. Changes to user-defined fields are rippled across related files of type J or K.</p>
K (IMS Uerview)	<p>A file of type K can contain fields of the related file of type I and fields of all related files of type J. ID, keywords, owners, comments, format, NAT hdr1-3 (Natural headers) and NAT editm (Natural edit mask), 3GL specification, Condition name & value and Field name synonyms can be maintained.</p>

VSAM

The following sections contain the following:

- Physical VSAM file (file type V)
- VSAM logical files, VSAM userviews (file types L, W and R)

See also section VSAM in the **Predict and Other Systems documentation**.

Physical VSAM File - File Type V

```

13:38:48          ***** P R E D I C T 4.3.1 *****          2003-05-31
                    - Add a file -

File ID ..... HNO-VMS
Type ..... VSAM file
File number ..... 123
Contained in DA .
Keys ..                                               Zoom: N

Literal name .....
Average count .....
Stability .....*   Not specified
Sequence field .....*

VSAM attributes          Location          Data set attributes
VSAM DD name .....      Volume 1 ..      CI size
VSAM file org .....* K KSDS  Volume 2 ..      Data .....
Compressed file .... N (Y/N) Volume 3 ..      Index .....
Numeric zones .....* F      Volume 4 ..      Recsize
                                   Volume 5 ..      Min .....
                                   Max .....
Abstract      Zoom: N          Free space ..      %

Additional attributes ..* N          Associations ..* N
    
```

Note:

Parameters not listed below are described in other sections of this documentation:
 Parameters common to all object types, for example Keys, are described under Global Attributes.
 Parameters common to all file types, for example Literal name, are described under Common File Attributes.
 See also Common Parameters for SQL File Types.

Parameters	
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 function Generate DDM uses this attribute as the default READ LOGICAL field in the Natural data definition module.
VSAM attributes	
VSAM DD name	This parameter refers to a DD card in batch mode, or to a CICS FCT object. See Natural VSAM Installation Notes and the Natural Operations documentation .
VSAM file org	Valid values: K KSDS (key-sequenced data set) E ESDS (entry-sequenced data set) R RRDS (relative-record data set)
Compressed file	Only applicable to files with organization K (KSDS). Y The record will be truncated if the trailing byte positions are unused.
Numeric zones	Valid entries are C and F. This field affects the representation of positive numbers in packed decimal format. The sign position holds hexadecimal C or F respectively.
Location	
Volume 1 - 5	The volume(s) on which the file is located. Up to five volumes can be specified.
Data set attributes	
CI size data	The data control interval size.
CI size index	The control interval size for the primary index.
Reccsize min	The minimum record size.
Reccsize max	The maximum record size.
Free space	The free space to be allocated (in percent).

VSAM Logical Files, VSAM Userviews - File Types L, W and R

```

13:48:33          ***** P R E D I C T 4.3.1 *****          2003-05-31
                    - Add a file -

File ID ..... HNO-L
Type ..... Logical VSAM
File number ..... 1
Contained in DA .
Keys ..                                               Zoom: N

Literal name .....
Average count .....
Stability .....*   Not specified

VSAM attributes
  VSAM prefix .....
  Sequence field ....*
  Organisation ..... KSDS
  Related ..... ARH-VSAM
  Abstract      Zoom: N

Additional attributes ..* N          Associations ..* N
    
```

Note:

Parameters not listed below are described in other sections of this documentation:
 Parameters common to all object types, for example Keys, are described under Global Attributes.
 Parameters common to all file types, for example Literal name, are described under Common File Attributes.
 See also Common Parameters for SQL File Types.

Parameters	
VSAM prefix	Only applicable to files of types L and R. If this field is left blank, the last 3 digits of the file number are taken as the prefix. Otherwise, a string of up to 20 characters can be specified. The records in the corresponding physical VSAM file (type V) whose primary keys begin with the specified prefix string will be considered as belonging to the logical VSAM file. The length of the primary key specified for the logical VSAM file must be equal to the length of the primary key specified for the physical VSAM file minus the length of the prefix. A dummy field (corresponding to the prefix) preceding the primary key in the logical VSAM file must be defined for the field offsets to be calculated correctly.
Org	The organization of the parent physical VSAM file (type V): Valid values: K KSDS (key-sequenced data set) E ESDS (entry-sequenced data set) R RRDS (relative-record data set)
Related	The ID of the related physical VSAM file (type V). Only applicable to files of types L and R.
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.

ISAM

ISAM Files and Sequential Files - File Types M and S

13:46:54	***** P R E D I C T 4.3.1 *****	2003-05-31
	- Modify file -	
File ID	HNO-M	Modified 2003-05-31 at 13:04
Type	ISAM file	by HNO
File number	1	
Contained in DA ..		
Keys ..		Zoom: N
Literal name		
Average count		
Stability	* Not specified	
Data set attributes		
External name ..		Zoom: N
Organisation	Size definition	Location
Type	Unit	Device
Recfm	Primary	Volume 1 ..
Reclen	Secondary	Volume 2 ..
Blksize	Dir blocks	Volume 3 ..
	Rounded up	N (Y/N) Volume 4 ..
	Contiguous	N (Y/N) Volume 5 ..
Abstract		Zoom: N
Additional attributes ..*	N	Associations ..* N

Note:

Parameters not listed below are described in other sections of this documentation:
 Parameters common to all object types, for example Keys, are described under Global Attributes.
 Parameters common to all file types, for example Literal name, are described under Common File Attributes.
 See also Common Parameters for SQL File Types.

Parameters	
Data Set Attributes	
External name	Name of the physical file in operating system. Up to 250 characters can be specified (using the Zoom option).
Organization	
Type	The organization of the data set: DA Direct access PO Partitioned PS Sequential blank None of the above applies

Recfm	<p>The record format of the file:</p> <p>F Fixed</p> <p>FB Fixed block</p> <p>FS Fixed block standard</p> <p>V Variable</p> <p>VB Variable blocked</p> <p>VS Variable blocked standard</p> <p>U Undefined</p> <p>blank None of the above applies</p>
Reccsize	The record size of the file.
Blksize	The block size of the file.
Rounded up	Y Each space allocation is rounded up to full cylinders.
Contiguous	Y The space allocated to the secondary extent of the file is contiguous with the space allocated to the primary extent.
Size Definition	
Unit	<p>The units in which storage space has been allocated to the file:</p> <p>BL Blocks</p> <p>CY Cylinders</p> <p>TR Tracks</p>
Primary	The number of units of storage space allocated to the primary extent of the file.
Secondary	The number of units of storage space allocated to the secondary extent of the file.
Dir-blocks	The number of blocks reserved for the directory of the file.
Location	
Device	The type of storage device on which the file is located.
Volume 1 - 5	The volume(s) on which the file is located. Up to five volumes can be specified.

Entire System Server

Entire System Server Files and Userviews - File Types P and Q

```

13:02:58          ***** P R E D I C T 4.3.1 *****          2003-05-31
                        - Modify File -
File ID ..... PD-P3                               Modified 2003-05-31 at 13:01
Type ..... Sys. Server userview                    by HNO
File number ..... 1
Contained in DA .
Keys ..                                             Zoom: N

Literal name .....
Average count
Stability .....*   Not specified

Entire System Server attributes
Sequence Field ....*
Retrieve ..... Y (Y/N)
Process ..... N (Y/N)

Abstract      Zoom: N

Additional attributes ..* N          Associations ..* N
    
```

Note:

Parameters not listed below are described in other sections of this documentation:
 Parameters common to all object types, for example Keys, are described under Global Attributes.
 Parameters common to all file types, for example Literal name, are described under Common File Attributes.
 See also Common Parameters for SQL File Types.

Parameters	
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.
Retrieve	Y Operation system information can be read with this file.
Process	Y Operation system activities can be performed via this file.

Note:

You cannot add files of type P with the function Add a file. Files of this type are added automatically when Entire System Server is installed.