

Adabas Auditing on z/OS

Adabas Auditing Configuration (SYSALA)

Version 2.2.2

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This document applies to Adabas Auditing for z/OS Version 2.2.2 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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Adabas Auditing Configuration (SYSALA)

The Adabas Auditing Configuration provides an online interface to create and maintain auditing definitions for Auditing for Adabas. These auditing definitions are stored in the Auditing system file associated with a specific Adabas Audit Server.

Adabas Auditing Configuration Overview	Provides an overview of the kinds of auditing definitions you must set up to use the Auditing for Adabas.
Maintaining Destination Definitions	Describes the destination and maintenance of audit data stored in the Auditing system file.
Maintaining Filter Definitions	Describes filter conditions for auditing in the Auditing system file and how maintain them using Adabas Auditing Configuration.
Maintaining Format Buffer Definitions	Describes the definitions of buffers stored in the Auditing system file and how to maintain them in the Adabas Auditing Configuration.
Maintaining Subscription Definitions	Describes the set of specifications to be applied to the auditing of data and how to maintain subscription file definitions.
Maintaining Admin Subscription Definitions	Describes a set of specifications to be applied to the auditing of administrative data.
Maintaining Global Definitions	Describes how to maintain Global definitions using Adabas Auditing Configuration.
Maintaining LFILE Parameters	Describes how to change or set the LFILE parameter using Adabas Auditing Configuration.

1 About this Documentation

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Online Information and Support	
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Document Conventions

Convention	Description
Bold	Identifies elements on a screen.
Monospace font	Identifies service names and locations in the format folder.subfolder.service, APIs, Java classes, methods, properties.
Italic	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 of 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 ().

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Data Protection

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2 Adabas Auditing Configuration Overview

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You can access Adabas Auditing Configuration from Natural.

First, verify that the Adabas Audit Server and Auditing system file have been installed appropriately, as described in the *Installation* chapter.

Then, within Natural, log on to the SYSALA library by entering:

```
LOGON SYSALA
```

And enter the following command:

```
MENU
```

The Adabas Auditing Configuration Main Menu will appear.

Controlling Access to Adabas Auditing Configuration

You can control access to the Adabas Auditing Configuration using the initialization exit, subprogram N-IEXIT. This exit is a Natural subprogram that runs automatically, whenever a user attempts to access the Adabas Auditing Configuration. Based on Natural code you supply in the exit using the exit parameters, you can:

- Restrict specific users from accessing the Adabas Auditing Configuration.
- Identify the Auditing system file initially used by a user or users.

For complete information on coding Natural subprograms, read your *Natural* documentation. Once you have supplied code in the N-IEXIT subprogram, the ID of any user attempting to access the Adabas Auditing Configuration is passed to the exit. If the #RESPONSE parameter is set to a non-zero value for that user, they cannot access the Adabas Auditing Configuration.

A sample of the N-IEXIT is shown below.

```
0010 ***********
0020 *
       INITIALIZATION EXIT
0030 ******
0040 DEFINE DATA PARAMETER
                                /* USER ID
0050 01 #USER
                        (80A)
0060 01 #AUDIT-DBID
                      (NO5)
                               /* AUDIT ID
                      (NO5)
                               /* AUDITING SYSTEM FILE
0070 01 #AUDIT-FNR
0080 01 #PARM-1
                        (A40)
                               /* DATA
                        (B02)
                               /* USER EXIT RESPONSE CODE
0090 01 #RESPONSE
                       (A04)
                               /* ONLINE SYSTEM VERSION
0100 01 #VERSION
0110 END-DEFINE
0120 *
0130 #RESPONSE = H'0000'
                               /* NON-ZERO WILL TERMINATE
```

```
0140 ESCAPE ROUTINE
0150 END ↔
```

You can use the following parameters while coding the Natural subprogram:

Parameter	Description
#PARM-1	Reserved for future use.
#AUDIT-DBID	The database ID of the Adabas Audit Server whose Auditing system file you want to maintain when the Adabas Auditing Configuration starts. Once you are using the Adabas Auditing Configuration, you can change this setting using the Set LFILE Parameters screen.
#AUDIT-FNR	The file number of the Auditing system file you want to maintain when the Adabas Auditing Configuration starts. Once you are using the Adabas Auditing Configuration, you can change this setting using the Set LFILE Parameters screen.
#RESPONSE	A non-zero response code will cause the Adabas Auditing Configuration to terminate. By setting this to a non-zero number you can restrict access to the Adabas Auditing Configuration for the user identified in the USER parameter or for the Adabas Auditing Configuration version specified in the VERSION parameter.
#USER	The user ID of a potential Adabas Auditing Configuration user.
#VERSION	The version of the Adabas Auditing Configuration.

The Adabas Auditing Configuration Main Menu

From the main menu of the Adabas Auditing Configuration screens, you can select options that allow you to maintain any Auditing definitions you need. Definitions can be added, reviewed, modified, copied, or deleted.

```
16:18:44
                **** A D A B A S AUDITING CONFIGURATION ****
                                                                    2021-08-03
Vers 2.2.1
                                 Main Menu
                                                                    M-RP0010
DBID 1956 File 89
                         Function
                   D
                         Destination Definitions
                         Filter Definitions
                   G
                         Format Buffer Definitions
                   S
                         Subscription Definitions
                   Τ
                         Admin Subscription Definitions
                   V
                         Global Definitions
                   U
                         Set Lfile parameters
                   ?
                         Help
                         Exit
          Code ... _
```

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

The following table describes the options on this menu. To select an option, enter its associated code in the Code field on the screen.

Code	Allows you to:		
D	Maintain Destination definitions		
F	Maintain Filter definitions		
G	Maintain Format Buffer definitions		
S	Maintain Subscription definitions		
T	Maintain Admin Subscription definitions		
V	Maintain Global definitions		
U	Change or set LFILE parameters		
?	Get help on this menu		
	Exit Adabas Auditing Configuration		

Getting Help

Online help is provided for every Adabas Auditing Configuration screen and message that appears in the Adabas Auditing Configuration. This section covers the following topics:

- Getting Screen-Level Help
- Getting Help for Messages

Getting Screen-Level Help

To get screen-level help for any Adabas Auditing Configuration screen:

- 1 Be sure the screen you want help for is displayed. Navigate to it if you need to.
- 2 Press the PF1 key to display the help screen.

Getting Help for Messages

> To get help for Adabas Auditing Configuration messages:

■ At the Command prompt, enter:

msg nnn

where nn is the valid two- or three-digit message number (omit the leading zeros). For example, to get help on message ALA00245, you would enter:

msg 245

Using Function Keys

The following table describes the general function keys available while using the Adabas Auditing Configuration screens. Note that not all function keys are available on all screens and some PF keys have meanings only to specific screens.

Function Key	Display Title	Description
PF1	Help	Provides help on the current screen.
PF2	Repos	Displays a pop-up screen allowing you to specify the definition name to which you want a list of definitions repositioned. This is useful if you have many definitions listed on one of the Adabas Auditing Configuration list screens.
PF3	Exit	Exits the current screen without saving any changes you might have made. If the current screen is the Main Menu, this function key has no effect.
PF4	Add	Displays a screen that allows you to add a definition.
PF5	Save or Exec	Saves the changes you have made or allows you to execute the program corresponding to the Adabas Auditing Configuration screen displayed.
PF7	-	Scrolls backwards through the data on a screen.
PF8	+	Scrolls forward through the data on a screen.
PF12	Menu	Returns to the Adabas Auditing Configuration main menu.

Leaving the Adabas Auditing Configuration Screens

To leave the Adabas Auditing Configuration screens, press PF12 from any screen. If you are on a menu screen in the Adabas Auditing Configuration, you can select the dot (.) option to leave.



Note: When you leave the Adabas Auditing Configuration screens, any modifications to the configuration since the last save will not be stored.

3 Maintaining Destination Definitions

Listing Destination Definitions	
Adding Destination Definitions	
Modifying Destination Definitions	
Copying Destination Definitions	
■ Deleting Destination Definitions	

A destination definition defines the destination of audit data.

This section describes the following topics:

Listing Destination Definitions

- > To use the Adabas Auditing Configuration to list the Destination definitions stored in the Auditing system file, complete the following steps:
- Select option D from the Adabas Auditing Configuration Main Menu.

The Available Destinations screen appears showing all Destination definitions in the Adabas Auditing Configuration.

The following tables describe the options on this menu.

Sel	Allows you to:	
M	Modify a Destination definition	
С	Copy a Destination definition	
D	Delete a Destination definition	
PF Key	Allows you to:	
PF1	Get screen help	
PF2	Reposition to a specific Destination definition in the list	
PF3	Exit this screen and return to the previous screen	
PF4	Add a new Destination definition	
PF6	Toggle between the sorting of Destination definition in the list	
PF12	Exit this screen and return to the main menu	

Adding Destination Definitions

- > To use the Adabas Auditing Configuration to add a Destination definition to the Auditing system file, complete the following steps:
- Select D from the Adabas Auditing Configuration main menu to list the Destination definitions, as described above in *Listing Destination Definitions*.
- 2 Press PF4 (Add).

The Audit Destination Definition screen appears.

```
17:38:42 ***** A D A B A S AUDITING CONFIGURATION ***** 2021-01-12
Audit Destination Definition M-RP1250

Destination Name ..... NAME_OF_DESTINATION_ID_AUDIT1 

Destination ID ...... AUDIT1__

Active at Startup ..... Y
Architecture ...... 2
Open at Startup ..... G
Maximum Output size ... _____0
```

```
Command ==>

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Exit Save Menu
```

3 Update the fields on this screen as described in the following table.

Field Name	Description	Default	
Destination Name	The name of the output destination. All destination definitions require a unique name. The name must use alphanumeric characters and be between 1 and 32 characters long. Embedded spaces are replaced automatically with underscores.		
Destination ID	The ID of the output destination. All destination definitions require a unique ID. The ID must use alphanumeric characters and be between 1 and 8 characters long.		
Active at Start-up	Whether the destination should be activated at Audit Server start-up. Y Valid values are "Y" (activate destination) or "N" (do not activate destination).		
Architecture	Use this field to specify the data architecture for fields in the URB* cont structures sent to the destination. To calculate a value for this paramete add the value of the byte order element and the encoding element in the control structure:		
	Control Structure Element Values Description Byte order (b) 0 High-order byte first 1 Low-order byte first Encoding Family (e) 0 ASCII encoding family 2 EBCDIC encoding family		
	For example, the default value, 2, indicates that the byte order element value is "0" and the encoding family value is "2".		
Open at Start-up	Whether or not the destination should be opened at Audit Server startup. Valid values are "Y", "N", or "G", with "G" (global value) as the default. When this parameter is set to "Y", the destination is opened at Audit Server start-up. When this parameter is set to "N", the destination is <i>not</i> opened at Audit Server start-up.		
Maximum Output size	t The maximum output size (in bytes) for the destination. 0 Valid values are 0 or an integer ranging from 4096 through 2,147,483,647.		

4 Press PF5 to save the Destination definition in the Auditing system file.

Modifying Destination Definitions

 \geqslant

- 1 List the Destination definitions in the Adabas Auditing Configuration, as described above in *Listing Destination Definitions*.
- 2 Locate the definition you want to modify on the screen and enter an M in the Sel column for that definition.

You can locate the definition you want in the list by pressing the PF7 (F7) or PF8 (F8) keys to scroll through the list. You can also press PF2 (F2) to specify the ID of the definition to which the list should be repositioned.

An appropriate Destination definition screen appears for the Destination you selected.

- 3 For information about the fields on this screen, refer to the field descriptions described earlier in *Adding Destination Definitions*.
 - **Note:** You cannot alter the ID of the Destination definition. If you want to rename a Destination definition, first copy it using the ID you want and then delete the original.
- 4 When all modifications have been made, press PF5 to save the changes.

Copying Destination Definitions

- To use the Adabas Auditing Configuration to copy a Destination definition in the Auditing system file:
- 1 List the Destination definitions in the Adabas Auditing Configuration, as described in *Listing Destination Definitions*.
- 2 Locate the definition you want to copy on the screen and enter a C in the Sel column for that definition.

You can locate the definition you want in the list by pressing the PF7 (F7) or PF8 (F8) keys to scroll through the list. You can also press PF2 (F2) to specify the ID of the definition to which the list should be repositioned.

A dialog appears requesting a Name and ID for the copy of the Destination definition.

Enter new	
Name:	
ID:	
or press PF3 to cancel	€

3 Specify new, unique Name and ID for the copy of the Destination definition and press Enter.

The Destination definition is copied, and the copy appears on the List of Destinations screen.

Deleting Destination Definitions

- > To use the Adabas Auditing Configuration to delete a Destination definition in the Auditing system file:
- 1 List the Destination definitions in the Adabas Auditing Configuration, as described in *Listing Destination Definitions*.
- 2 Locate the definition you want to delete on the screen and enter a D in the Sel column for that definition and press Enter. The Destination definition is deleted.

You can locate the definition you want in the list by pressing the PF7 (F7) or PF8 (F8) keys to scroll through the list. You can also press PF2 (F2) to specify the ID of the definition to which the list should be repositioned.

4 Maintaining Filter Definitions

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Modifying Filter Definitions	
Copying Filter Definitions	
■ Deleting Filter Definitions	
Rules for Writing Filter Conditions	

An Audit Filter definition specifies filter conditions for auditing, based on the values of fields in the database records, request information, or client information. No Filter definitions are required. Filter definitions are defined using Adabas Auditing Configuration.

This section describes the following topics:

Listing Filter Definitions

- To use the Adabas Auditing Configuration to list the Filter definitions stored in the Auditing system file, complete the following steps:
- Select option F from the Adabas Auditing Configuration Main Menu.

The List of Filters screen appears showing all the Filter definitions in the Adabas Auditing Configuration.

The following tables describe the options on this menu.

Sel	Allows you to:	
M	Modify an Audit Filter definition	
С	Copy an Audit Filter definition	
D	Delete an Audit Filter definition	
PF Key	Allows you to:	
PF1	Get screen help	
PF2	Reposition to a specific Audit Filter definition in the list	
PF3	Exit this screen and return to the previous screen	
PF4	Add a new Audit Filter definition	
PF6	Toggle between the sorting of Filters by ID or Name	
PF12	Exit this screen and return to the main menu	

Adding Filter Definitions

To use the Adabas Auditing Configuration to add an Audit Filter definition to the Auditing system file, complete the following steps:

- Step 1. Access the Filter Definition Area of the Adabas Auditing Configuration
- Step 2. Specify a Filter Definition ID and Name
- Step 3. Add Filter Conditions to the Filter Definition
- Step 4. Save the Filter Definition

Step 1. Access the Filter Definition Area of the Adabas Auditing Configuration

- > To access the Filter Definition area of the Adabas Auditing Configuration, complete the following steps:
- Select F from the Adabas Auditing Configuration main menu to list the Filter definitions, as described earlier in *Listing Filter Definitions*.
- 2 Press PF4 (Add).

The Filter Definition screen appears.

18:30:29 ***** A D A B A S AUDITING CONFIGURATION ***** Filter Definition	2020-02-28 M-RP1150
Filter Name Exclude or Include Records I	1 of 1
Source Ta Sel Group Field PE MU Image Begin Length Cond Field Va	arget lue

```
Command ==>
Enter-PF1---PF2---PF3---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Exit Add Save - + Menu ↔
```

Step 2. Specify a Filter Definition ID and Name

> To specify a Filter definition ID and Name:

- 1 Tab to the Filter ID field and specify a unique name for the Filter definition. The name must use alphanumeric characters and be between one and 32 characters long. Embedded spaces are automatically changed to underscores.
- 2 Tab to the Filter ID field and specify a unique ID for the Filter definition. The ID must use alphanumeric characters and be between 1 and 8 characters long.
- 3 Tab to the Exclude or Include Records field and specify an "I" to include (audit) the records selected by the filter definition or an "E" to exclude (do not audit) records selected by the filter definition.
- 4 Although no field filter conditions have yet been specified for the Filter definition, press PF5 to save it.

Step 3. Add Filter Conditions to the Filter Definition

For more information about rules of filter conditions, refer to the section *Rules for Writing Filter Conditions*.

> To add filter conditions to the Filter definition:

1 Press PF4 (Add) to define field filter conditions for the Filter definition. Up to 2500 filter conditions can be specified.

The Filter Condition screen appears with the Filter ID listed at the top of the screen.

18:31	:16	**** A D A	B A S AUDIT Filter Co	FIGURATION ***	** 2020 M-RP	
Gro	 up Field		 age Conditio	Filter ID Target PE MU I Begin Length		Γ
				 	or val	ue(s)
Targe	t Value 1					
Targe	t Value 2					
Comma	nd ==>					
Enter		2PF3PF4- Exit		- PF8PF9P		F12 enu

Note that you can specify a target field, part of a target field, or multiple target values on this screen:

- The target field is specified under the Target heading in the Field column.
- The part of a target field is specified under the Target heading using a combination of the Field column and the Begin and Length columns (which are on the second line).
- Multiple target values can be specified in the Target Value *n* fields at the bottom part of the screen.
- 2 Update the fields on this screen as described in the following table.
 - **Note**: The Filter definition ID cannot be changed.

Field ID	Description	Default
Group	You can use a group number to group field filters together within an Audit Filter definition.	-
	All field filters with the same group number are blocked and logically ANDed together when the filters are examined during subscription processing. In other words, a field in the database must meet all the criteria of the group before it is selected.	
	Likewise, different groups of field filters are logically ORed together. In other words, a field need only meet the criteria specified by one of the groups to be selected.	
	Valid values are numbers ranging from 1 through 999.	
Source	The two-byte Adabas field code for the field to be compared.	-
Field	The Source Field must be in the format buffer specified for the item type.	
	If you want to specify part of a Source Field for the comparison, specify:	
	a starting byte number in the Source Begin field on the second line.	
	optionally, the length of the part to be compared in the Source Length field on the second line.	
	Note: The format of the complete field is used for partial field	
	comparisons. If the formats of a Source Field or partial Source Field and a Target Field or partial Target Field do not match, the comparisons may always result in an unequal condition. For example, comparing an alphanumeric field to a packed field will always result in an unequal condition.	
Source PE	The index number (occurrence) of the periodic group (PE) to which the condition relates if the Source Field in this field filter is a PE field.	0, indicating the Source Field is not a PE field.
	Valid values range from 0 through 191.	a i E neiu.
Source MU	The index number of the multiple-value field (MU) to which the condition relates if the Source Field in this field filter is an MU field.	0, indicating the Source Field is not
	Valid values range from 0 through 191.	an MU field.
Source Image	Whether the Source Field is in the after image (AI), before image (BI), or the default image of the record	AI for selects, inserts and updates
	Valid values are "AI" and "BI".	BI for deletes
	Note: The Source Image field should only be specified for update commands.	
Source Begin	The starting byte number of the partial Source Field to be compared.	1

Field ID	Description	Default
	The Source Begin field is only used if you want to specify a partial Source Field for comparison and only if the Source Field is of alphanumeric or binary format.	
	Note: The format of the complete field is used for partial field	
	comparisons. Valid comparisons of different field types are listed in <i>Field Type Considerations</i> .	
	For fixed length fields, valid values range from "1" (the start of the field) through the maximum length of the field (the last byte of the field). For variable length fields, valid values range from "1" (the start of the field) to the maximum length allowed for that field type. Counting occurs from left to right beginning with 1 for fields defined with alphanumeric format, and from right to left beginning with 1 for fields defined with binary format.	
Source	The numeric length of the partial Source Field that should be compared.	If Source Begin is not specified, the
Length	The Source Length field is only used if you want to specify a partial Source Field for comparison and only if the Source Field is of	default value is the entire field.
	alphanumeric or binary format.	If Source Begin is
	Note: The format of the complete field is used for partial field	specified, the
	comparisons. Valid comparisons of different field types are listed in <i>Field Type Considerations</i> .	default value is the maximum length of the field minus
	For fixed length fields, errors will occur if the sum of the values of the Source Begin and Source Length parameters exceeds the fixed length of the field. For variable length fields, the sum of the values of the Source Begin and Source Length parameters must not exceed the maximum length of the field plus 1. For example, if a variable length field has format "A" with a maximum length of 253 bytes, settings of Source Begin=1 and Source Length=253 are valid, but settings of Source Begin=2 and Source Length=254 are not.	the value of the Source Begin parameter plus 1.
Condition	A condition operator code for the filter.	EQ
	Valid values are "EQ" (equal to), "NE" (not equal to), "LT" (less than), "LE" (less than or equal to), "GT" (greater than), or "GE" (greater than or equal to).	
	When EQ or NE are specified, multiple target values and target values using wildcards can be tested. For all other condition codes, only single target values without wildcards can be tested.	
Target Field	The two-byte Adabas field code for the field with which the Source Field will be compared. Use single quotation marks around the field code. The Target Field must be in the same record as the Source Field.	-
	If you want to specify part of a Target Field for the comparison, specify:	

Field ID	Description	Default
	a starting byte number in the Target Begin field on the second line.	
	optionally, the length of the part to be compared in the Target Length field on the second line.	
	Note:	
	A Target Field cannot be used for Request or Client filters. Only Target values may be specified for Request and Client filters.	
	2. The format of the complete field is used for partial field comparisons. Valid comparisons of different field types are listed in <i>Field Type Considerations</i> .	
	Target Field is mutually exclusive with the Target Value <i>n</i> fields. If you specify a Target Field, you cannot specify values in the Target Value <i>n</i> fields.	
Target PE	The index number of the periodic group (PE) to which the condition relates if the Target Field in this field filter is a PE field.	0, indicating the Target Field is not a PE field.
	Valid values range from 0 through 191.	
	The Target PE field is mutually exclusive with the Target Value n fields. If you specify a Target Field, you cannot specify values in the Target Value n fields.	
Target MU	The index number (occurrence) of the multiple-value field (MU) to which the condition relates if the Target Field in this field filter is an MU field.	0, indicating the Target Field is not an MU field.
	Valid values range from 0 through 191.	
	The Target MU field is mutually exclusive with the Target Value n fields. If you specify a Target Field, you cannot specify values in the Target Value n fields.	
Target Image	Whether the Target Field is in the after image (AI), before image (BI), or the default image of the record.	AI for selects, inserts, and updates.
	Valid values are "AI" and "BI".	
	The Target Image field is mutually exclusive with the Target Value n fields. If you specify a Target Field, you cannot specify values in the Target Value n fields.	BI for deletes.
	Note: The Target Image field should only be specified for update	
	commands.	
Target Begin	The starting byte number of the partial Target Field at which the comparison should begin. This field should only be specified if you want to specify a partial field for comparison, if the field is of alphanumeric or binary format, and only if a Target Field is specified.	1

Field ID	Description	Default
	Note: The format of the complete field is used for partial field comparisons. Valid comparisons of different field types are listed in <i>Field Type Considerations</i> .	
	For fixed length fields, valid values range from "1" (the start of the field) through the maximum length of the field (the last byte of the field). For variable length fields, valid values range from "1" (the start of the field) to the maximum length allowed for that field type. Counting occurs from left to right beginning with 1 for fields defined with alphanumeric format, and from right to left beginning with 1 for fields defined with binary format.	
Target Length	The numeric length of the partial Target Field that should be used for the comparison. This field should only be specified if you want to specify a partial field for comparison, if the field is of alphanumeric or binary format, and only if a Target Field is specified.	If Target Begin is not specified, the default value is the entire field.
	Note: The format of the complete field is used for partial field comparisons. Valid comparisons of different field types are listed in <i>Field Type Considerations</i> .	If Target Begin is specified, the default value is the maximum length
	For fixed length fields, errors will occur if the sum of the values of the Target Begin and Target Length parameters exceeds the fixed length of the field. For variable length fields, the sum of the values of the Target Begin and Target Length parameters must not exceed the maximum length of the field plus 1. For example, if a variable length field has format "A" with a maximum length of 253 bytes, settings of Target Begin=1 and Target Length=253 are val-id, but settings of Target Begin=2 and Target Length=254 are not.	of the field minus the value of the Target Begin parameter plus 1.
Target Value <i>n</i>	A value against which the Source Field will be compared. Only one value can be specified in each Target Value n field. Up to 128 Target Value n fields are available in which you can specify values; use the PF7 and PF8 keys to scroll through them.	-
	Strings that include blanks should be enclosed in single quotes. Apostrophes in strings must be doubled (for example: 'six o"clock'). A maximum of 254 characters can be specified for each value.	
	Each value may consist of either free-format characters or a mix of elements specified using the A() or X() notation.	
	■ If free-format data consists entirely of numeric data (including an optional leading "+" or "-" character) it is treated as a numeric value.	
	■ If a value (or part of a value) is specified using A() notation, it will be treated as alphabetic data.	
	■ Hexadecimal values may be specified using X() notation.	

Field ID	Description	Default
	A value must be specified entirely as free-format data, or composed of one or more A() or X() sub-elements. If a value begins with an A() or X() sub-element all remaining sub-elements of the value must be so specified.	
	The Target Value n field is mutually exclusive with the Target Field, Target Image, Target MU, and Target PE fields. You cannot specify values for the Target Field, Target Image, Target MU, or Target PE fields if you have specified a value for the Target Value n field.	

Step 4. Save the Filter Definition

- > To save the Filter definition:
- Press PF5 to save the Filter definition in the Auditing system file.

Modifying Filter Definitions

- > To use the Adabas Auditing Configuration to modify a Filter definition in the Auditing system file:
- 1 List the Filter definitions in the Adabas Auditing Configuration, as described earlier in *Listing Filter Definitions*.
- 2 Locate the definition you want to modify on the screen and enter an M in the Sel column for that definition.
 - You can locate the definition you want in the list by pressing the PF7 (F7) or PF8 (F8) keys to scroll through the list. You can also press PF2 (F2) to specify the ID of the definition to which the list should be repositioned.
 - An appropriate Filter definition screen appears for the Filter you selected.
- Modify the Exclude or Include Record field, as necessary. If you want to modify a filter condition specification, enter an "M" next to it in the list to display and update the Filter Condition screen for that condition. If you want to delete a filter condition from the Filter definition, enter a "D" next to the condition in the list.
 - **Note:** You cannot alter the Name and ID of the Filter definition. If you want to rename a Filter definition, first copy it using the Name and ID you want and then delete the original.

For information on modifying this screen, read the description of adding Filter definitions in *Adding Filter Definitions*.

4 When all modifications have been made, press PF5 to save the changes.

Copying Filter Definitions

- To use the Adabas Auditing Configuration to copy a Filter definition in the Auditing system file:
- 1 List the Filter definitions in the Adabas Auditing Configuration, as described in *Listing Filter Definitions*.
- 2 Locate the definition you want to copy on the screen and enter a C in the Sel column for that definition.

You can locate the definition you want in the list by pressing the PF7 (F7) or PF8 (F8) keys to scroll through the list. You can also press PF2 (F2) to specify the ID of the definition to which the list should be repositioned.

A dialog appears requesting an ID for the copy of the Filter definition.



3 Specify new, unique Name and ID for the copy of the Filter definition and press Enter.

The Filter definition is copied, and the copy appears on the List of Filters screen.

Deleting Filter Definitions

- > To use the Adabas Auditing Configuration to delete a Filter definition in the Auditing system file:
- 1 List the Filter definitions in the Adabas Auditing Configuration, as described in *Listing Filter Definitions*.
- 2 Locate the definition you want to delete on the screen and enter a D in the Sel column for that definition and press Enter. The Filter definition is deleted.

You can locate the definition you want in the list by pressing the PF7 (F7) or PF8 (F8) keys to scroll through the list. You can also press PF2 (F2) to specify the ID of the definition to which the list should be repositioned.

Note: If you want to delete a filter condition from the Filter definition, read *Modifying Filter Definitions*.

Rules for Writing Filter Conditions

There are various things you should consider when creating filter conditions. This section describes them.

- General Information
- So My Record Matches the Filter Conditions Now What?
- Failed or Ignored Filter Conditions
- Target Value Syntax
- When You Can Specify Multiple Targets
- How Multiple Filter Conditions Are Interpreted
- Specifying a Range of Values
- Field Type Considerations
- Varying Field Length Considerations
- Using Wildcards

General Information

A filter can operate on fields in the data record, request information, or client information. The type of data the filter operates on is determined by specifying the filter ID in the Data, Request, or Client filter ID fields on the File-related Parameters menu of the subscription.

For a data filter, the Source Field is in the data record, and the target for comparison may be another field in the data record (either Before or After image in the case of an update), or the target may be one or more values.

For a Request filter, the Source Field is in the request information, and the target is one or more values. The target cannot be another field.

For a Client filter, the Source Field is in the client information, and the target is one or more values. The target cannot be another field.

A subscription file can define a combination of Data, Request, and Client filters. If more than one filter is defined, all filters must meet acceptance criteria for the event to be audited.

So My Record Matches the Filter Conditions - Now What?

Filter conditions are based on the values of fields (or partial fields) in a filter definition. If a field or partial field meets all the filter conditions specified, the record is selected. Once selected, the record will be either included or excluded from auditing processing, based on what the audit filter definition specifies. Therefore, selection of a record does not necessarily mean that it will be audited - merely that it passed the filter conditions specified by the audit filter definition. If the audit filter definition indicates that selected records should be excluded from auditing, the record will not be audited.

Audit filter definitions indicate whether selected records are audited or not via the Exclude or Include Record field on the Filter Definition screen of the Adabas Auditing Configuration.



Note: Include and exclude processing function in the same way for partial fields as for complete fields in your audit filters.

Failed or Ignored Filter Conditions

A filter condition will be ignored if it cannot be evaluated. This can occur if the image to be tested is not present for auditing. The effect of this on filter processing varies, based on whether the filter occurs as part of include or exclude processing and, if it is included in a group of conditions, how the other conditions in the group are matched, failed, or ignored. This is best explained in a series of examples.

Examples:

1. Suppose an add command (N1) adds a record containing field AB to which the following filter is applied:

```
Type of filter: INCLUDE
Source Field: 'AB', Source Image: BI
Condition: EQ
Target Value: '1916'
```

In this case, the filter cannot be evaluated because only the after image is present for an add and the filter is for the before image (Source-Image=BI). This filter is therefore ignored. No test is done on the field to see if the before image is equal to "1916". Consequently, the add record is not included in auditing processing.

2. Likewise, a similar exclude filter is also ignored:

```
Type of filter: EXCLUDE
Source Field: 'AB', Source Image: BI
Condition: EQ
Target Value: '1916'
```

In this case, the filter cannot be evaluated because only the after image is present for an add and the filter is for the before image. This filter is therefore ignored, and no test is done on the field to see if the before image is equal to "1916". However, because this is an exclude filter, the add record is *not* excluded from auditing. In other words, it is included in auditing, regardless of whether the before image of the AB field was equal to "1916".

3. Now consider the following audit filter using *multiple filter conditions* and include processing:

```
FILTER ID=MYINCLF
Type of filter: INCLUDE
Source Field: 'BA', Source Image: BI, Condition: EQ, Target Value: 'AAAA'
Source Field: 'BB', Source Image: AI, Condition: EQ, Target Value: 'VVVV'
Source Field: 'BC', Source Image: AI, Condition: EQ, Target Value: 'XXXX'
```

If an add command (N1) is issued for a record containing the BA, BB, and BC fields, no before image is present for these fields - only the after image. Therefore, the filter condition for BA is ignored because the filter is for the before image. The BA filter condition is treated as if it is not even specified.

The add record, then, is only included in auditing if both filters for fields BB and BC are true.

4. Finally, consider the following audit filter using *multiple filter conditions*, exclude processing, and OR processing:

```
FILTER ID=MYEXCLF
Type of filter: EXCLUDE
Source Field: 'BA', Source Image: BI, Condition: EQ, Target Value: 'AAAA'
Source Field: 'BB', Source Image: AI, Condition: EQ, Target Value: 'VVVV'
OR
Source Field: 'CA', Source Image: AI, Condition: EQ, Target Value: 'EEEE'
Source Field: 'CB', Source Image: AI, Condition: EQ, Target Value: 'CCCC'
OR
Source Field: 'DA', Source Image: BI, Condition: EQ, Target Value: '0000'
Source Field: 'DB', Source Image: BI, Condition: EQ, Target Value: 'CCCC'
```

If an add command (N1) is issued for a record containing these fields, no before image is present for these fields - only the after image. Therefore, the filter conditions for BA, DA, and DB are ignored because the filters are for the before image; these filter conditions are treated as if they are not even specified.

The add record, then, is only excluded in auditing if the filter for BB is satisfied OR if both the filters for field CA and field CB are satisfied. Otherwise, the add record is included in auditing.

Target Value Syntax

Target values are the values to be compared to the Source Field using the condition type specified (Include or Exclude).

Each value can be expressed in one of two ways:

- You can specify values as free-format text. This text can be any set of alphanumeric set of characters. If blanks are required in the value, you should enclose the value in single quotes.
 - When the data in the text is all numeric with an optional leading "+" or "-" sign, it is flagged as a numeric value and will be handled differently depending on the Source Field type in the Adabas Audit Server definitions.
- You can specify values as a combination of "A()" and "X()" constructs that enable you to enter data for the same variable in alphabetic format, hexadecimal format, or both, as required. If the element value starts with the string "A(" or "X(" it is treated as an "A()" or "X()" value. If the value does not start with one of these strings, the value is treated as free-format text.

This section describes rules specific to these different methods of specifying target values.

- Free-Format Value Rules
- A() and X(0) Format Value Rule
- Source Field Data Type Rules
- Examples

Free-Format Value Rules

The following rules apply to free-format values.

- Free-format values can be any sequence of alphanumeric data apart from the comma character itself.
- If a blank is required for the free-format value, specify the value in single quotes.
- If an apostrophe is required as part of a free-format value, double the apostrophe (for example, 'six o"clock').
- If the value consists of all numeric characters with an optional leading "+" or "-" sign, the value will be treated as numeric.
- If the value begins with a single asterisk (*), it is interpreted as a wildcard suffix (for example, '*xyz').
- If the value ends with a single asterisk, it is interpreted as a wildcard prefix (for example, 'abc*').
- If two asterisks are found together (**) in any location in the free-format value, they are interpreted as a single asterisk in the resulting data.
- If a single asterisk is found in the middle of the data, it is rejected as invalid.



Note: The asterisk wildcard can only be used if the condition for the filter expression is EQ (equal) or NE (not equal). They cannot be used for any other types of filter expression conditions.

A() and X(0) Format Value Rule

The following rules apply to A() and X() value specifications.

■ The "A()" construct is specified using the following syntax:

A(data)

In this syntax, the *data* specified can be any alphanumeric characters, except the parentheses characters.

■ The "X()" construct is specified using the following syntax:

X(data)

In this syntax, the *data* specified must be an even number of characters in the range X'F0' to X'F9' (i.e. 0 to 9) and X'C1' to X'C6' (i.e. A to F). Each pair of characters will represent the hexadecimal value for one byte in the resultant value.

- If a value starts with an "A()" or "X()" construct, the entire value must be specified using these constructs. You cannot mix them with free-format values.
- "A()" and "X()" constructs can be specified multiple times in the same value specification. They must always have matching opening and closing parentheses, or the entire value specification is treated as invalid.
- When the "A()" construct is used, the asterisk (*) wildcard character is treated in the same manner as for free-format values.
- When the "X()" construct is used, the X'5C' character (which represents an asterisk) is treated like any other hexadecimal character and is not interpreted as a wildcard.

Source Field Data Type Rules

The following rules apply to the specification of Target Values depending on the Source Field data type:

- Target Values for Source Fields with data type binary may be entered in hexadecimal.
- Target Values for Source Fields with data type floating point may be entered in hexadecimal.
- Target Values for Source Fields with data type unpacked, packed, and fixed may not be entered in hexadecimal.

Examples

In the following example, a Target Value of "ABCDE" is specified:

ABCDE

In the following example, a numeric Target Value of "12345" is specified:

12345

In the following example, a numeric Target Value of "-678" is specified:

-678

In the following example, a Target Value of "AB123" is specified:

AB123

In the following example, a Target Value of "XyZ" is specified:

A(XyZ)

In the following example, a Target Value of "SSS" (the alphabetic equivalent of X'E2E2E2') is specified:

X(E2E2E2)

In the following example, a Target Value of "*abc*" ("abc" is the alphabetic equivalent of X'C1C2C3') is specified. Note that this value is open-ended because wildcards are specified:

A(*)X(C1C2C3)A(*)

In the following example, a Target Value of "*def**" is specified. Note that the first asterisk specifies a wildcard, but the last two asterisks specify asterisk characters (the alphabetic equivalent of X'5C5C'):

A(*def)X(5C5C)

The following Target Value examples are invalid because they specify a wildcard asterisk in the middle of the values:

```
*ABC*DEF*
X(F5F6)*X(F7F8)
X(F2)A(*)X(F4)
```

The following Target Value examples are invalid because they specify invalid hexadecimal data:

```
X(ABACFGZZAE)
X(ABC)
```

The following Target Value example is invalid because it mixes free-format and hexadecimal data:

X(AB)AB

The following Target Value example is invalid because it misuses commas

```
X(ABAC),,A(123)
```

The following Target Value example is invalid because it misuses parentheses in the A() construct:

A(12(34))

When You Can Specify Multiple Targets

You can only specify multiple targets if the condition operator is EQ (equal) or NE (not equal). The LT (less than), LE (less than or equal), GT (greater than), and GE (greater than or equal) operators logically assume a comparison of the Source Field value to a single Target Value, so multiple Target Values are not allowed for these condition operators.

Since wildcards are essentially a concise way of specifying multiple targets, you can also only use wildcards when the condition operator is EQ or NE.

If your filter checks to see if the Source Field value is equal to a list of Target Values, the Source Field value need only be equivalent to one of the Target Values for the filter condition to be true. On the other hand, if your filter checks to see if the Source Field value is not equal to a list of Target Values, the Source Field value must not be equal to any of the Target Values for the filter condition to be true.

Examples:

In the following example, records for which the after image of the AA field is equal to "1", "2", "3", or "4" are selected.

```
Type of filter: Include
Source Field: 'AA', Source Image: AI, Condition: EQ, Target Values: 1, 2, 3, 4
```

In the following example, records for which the after image of the AA field is greater than "5" are selected.

```
Type of filter: INCLUDE
Source Field: 'AA', Source Image: AI, Condition: GT, Target Value: 5
```

In the following example, records for which the first three bytes of the after image of the BB field contain the characters "abc" are selected.

```
Type of filter: INCLUDE
Source Field: 'BB', Source Image: AI, Condition: EQ, Target Value: abc*
```

In the following example, records for which the last three bytes of the after image of the BB field contain the characters "xyz" are selected.

```
Type of filter: INCLUDE
Source Field: 'BB', Source Image: AI, Condition: EQ, Target Value: *xyz
```

In the following example, records in which no bytes of the after image of the BB field contain the characters "klm" are selected.

```
Type of filter: INCLUDE
Source Field: 'BB', Source Image: AI, Condition: NE, Target Value: *klm*
```

The following example is invalid because it specifies multiple Target Values when the condition code is not EQ or NE.

```
Type of filter: INCLUDE
Source Field : 'AA', Source Image : AI, Condition : LE, Target Values : 1, 2, 3, 4
```

The following example is invalid because it specifies a wildcard in the Target Values when the condition code is not EQ or NE.

```
Type of filter: INCLUDE
Source Field: 'AA', Source Image: AI, Condition: GT, Target Value: *xyz
```

How Multiple Filter Conditions Are Interpreted

You can specify multiple filter conditions within a single audit filter definition. Using the Group field on the Filter Condition screen of the Adabas Auditing Configuration to define your audit filter definitions, use the same group number for those conditions you want ANDed.

Conditions with different Group numbers are logically ORed.

For conditions that are ANDed (have the same Group number), all conditions in that group must be true for the group condition to be true.

For conditions that are ORed (have different Group numbers), any one of the conditions of the group must be true for the filter to be true.

Specifying a Range of Values

You can specify a range of values in your filter condition by creating two conditions that are logically ANDed (see *How Multiple Filter Conditions Are Interpreted*). Simply define one filter condition to test for values greater than (GT) or greater than or equal to (GE) the lowermost value. Then define the second filter condition to test for values less than (LT) or less than or equal to (LE) the uppermost value. As both conditions must be true since they are logically ANDed, your range specification is assured.

Field Type Considerations

Ideally, when a Source Field is compared to a Target Field, the field types will be the same. However, it is possible to compare fields of different formats. For example, you can compare a packed decimal format Source Field with a binary format Target Field. For a complete list of compatible Adabas field types, refer to your *Adabas* documentation.

This section covers the following topics related to how fields of different formats are compared:

- Valid Comparison Table
- Source Field Value vs Target Field Value Comparison Processing by Field Type
- Source Field Value vs Target Values Comparison Processing by Field Type

Valid Comparison Table

An asterisk (*) in a cell in the following table indicates that a comparison of the field types is valid. A blank in a cell in the table indicates that a comparison is not supported.

Field Data Type	Alphanumeric	Unpacked	Packed	Binary	Floating Point	Wide-Character	Fixed Point
Alphanumeric	*			*		*	
Unpacked		*	*	*	*		*
Packed		*	*	*	*		*
Binary	*	*	*	*	*		*
Floating Point		*	*	*	*		*
Wide-Character	*					*	
Fixed Point		*	*	*	*		*

Source Field Value vs Target Field Value Comparison Processing by Field Type

The following table lists the conversions that apply when comparing Source Field values with Target Field values:

Source Field Data Type	Target Field Data Type	Comparison Conversion Notes
Unpacked	Unpacked	The Source Field value and Target Field value are converted to packed form for comparison.
Binary	Packed	The Target Field value is converted to binary for comparison.
	Unpacked	The Target Field value is converted to binary for comparison.
	Alphanumeric	The Source Field value and Target Field value are compared as is.
Packed	Packed	The Source Field value and Target Field value are compared as is.
	Unpacked	The Target Field value is converted to packed for comparison.
	Binary	The Target Field value is converted to packed for comparison.
	Fixed	The Target Field value is converted to packed for comparison.
Fixed	Packed	The Source Field value is converted to packed for comparison.
	Unpacked	The Source Field value and Target Field value are converted to packed form for comparison.
	Binary	The Source Field value is converted to binary for comparison.
	Fixed	The Source Field value and Target Field value are compared as is.

Notes:

- 1. When either the Source Field or Target Field is of type floating-point (but not both fields), the other field will be converted to floating point, and a floating-point comparison will be made.
- 2. The conversion of very large numbers in a numeric format other than floating point to floating may result in a loss of precision because as the numbers get bigger, the range of numbers that may be represented in the floating point format is reduced. For example, the value 99,999,999,999,999,999 will be converted to the floating-point value 99,999,999,999,999,9984.

Source Field Value vs Target Values Comparison Processing by Field Type

The following table lists the conversions that apply when comparing Source Field values with Target Values:

Source Field Data Type	Target Value Data Type	Comparison Conversion Notes
Any	-	The Target Value(s) are converted to the data type of the Source
		Field for comparison.



Note: The conversion of Target Value(s) to the data type of the Source Field can cause problems in the accuracy of filter condition processing if a Target Value in the list cannot be converted or is otherwise incompatible with the required Source Field type.

Varying Field Length Considerations

When the length of the Source Field and Target Field are different, the shorter value is converted to the size of the longer value. For alphanumeric data, the value is padded on the right with blanks. For numeric data, the value is padded on the left with hexadecimal zeros.

Using Wildcards

You can use an asterisk (*) as a wildcard for Target Values if the condition code being used is EQ (equal) or NE (not equal). You cannot use wildcard characters for any other filter conditions (GT, LT, LE, or GE).

Note:

Wildcard values are not supported for wide character fields.

- If you want to test the Source Field value for any Target Value beginning with a specific string of characters, simply append an asterisk to the end of the Target Value. For example, to test for a Source Field value starting with the characters "POW", specify "POW*" as the Target Value.
- If you want to test the Source Field value for the presence of a specific string within its value, precede and supersede the string with an asterisk. For example, to test for the presence of the string "WER", specify "*WER*" as the Target Value.
- If you need to test for the presence of an asterisk itself in a Source Field value, specify two asterisks in a row for the Target Value ("**").

Maintaining Format Buffer Definitions

Listing Format Buffer Definitions	40
Adding Format Buffer Definitions	
Modifying Format Buffer Definitions	
Copying Format Buffer Definitions	
Deleting Format Buffer Definitions	

This section describes the following topics:

Listing Format Buffer Definitions

- To use the Adabas Auditing Configuration to list the Format Buffer definitions stored in the Auditing system file, complete the following steps:
- Select option G from the Adabas Auditing Configuration Main Menu.

The List of Format Buffers screen appears showing all Format Buffer definitions in the Adabas Auditing Configuration.

The following tables describe the options on this menu.

Sel	Allows you to:
M	Modify a Format Buffer definition
С	Copy a Format Buffer definition
D	Delete a Format Buffer definition
PF Key	Allows you to:
PF1	Get screen help
PF2	Generate a Format Buffer from Predict
PF3	Exit this screen and return to the previous screen
PF4	Add a new Format Buffer definition
PF5	Reposition to a specific Format Buffer definition in the list
PF6	Toggle between the sorting of Format Buffers by ID or Name
PF12	Exit this screen and return to the main menu

Note: You can only delete or modify a Format Buffer if it has not yet been published (by pressing F5). Once a Format Buffer is published, it cannot be changed.

Adding Format Buffer Definitions

- To use the Adabas Auditing Configuration to generate a Format Buffer definition using Predict, complete the following steps:
- Select G from the Adabas Auditing Configuration main menu to list the Format Buffer definitions, as described earlier in *Listing Format Buffer Definitions*.
- 2 Press PF4 (Add).

The Predict Parameters screen appears.

11:55:22 FDIC=(1955,13)	****	Α	D A	В	AUDITING dict Param	CONFIGURATION neters	****	2021-03-18 M-RP1121 ↔
								ب
FB ID								
								4
File ID	· · * -				 			4
Target file ID	* _				 			Ą
								<i>ب</i>

```
Generation Information -----
User .....
Date .....
Time .....
FDIC ..... DBID .. FNR ..
Adabas version ....
Occurrences used ..
Full format .....
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF8---PF9---PF10--PF11--PF12---
    Help Exit Exec Sel Unlnk
                                                         Menu ↩
```

3 Update the fields on this screen as described in the following table:

Field Name	Description	Default
FB ID	A unique ID for the format buffer definition. The ID must be between one and seven characters long.	none
File ID	The name of a Predict file with a file type of Adabas (A) or Adabas user view (U). Place your cursor on this field and press PF6 to select a file from a List of Predict Files screen. To select from the list screen, type an "S" next to the file you want to use and press PF5.	none
Target file ID	The name of a Predict file with a file type of sequential (S).	none

Field Name	Description	Default
	This file may be used to insert space notation (nX) into the format buffer. For fields in the target file with matching definitions in the File ID file (in other words, if a field exists with the same field long name), a short name clause is generated. For fields that do not have a matching definition in the File ID file, an appropriate space notation (nX clause) is generated. The spaces defined by nX clauses can be filled using a user exit.	
	Place your cursor on this field and press PF6 to select a file from a List of Predict Files screen. To select from the list screen, type an "S" next to the file you want to use and press PF5.	

When you first create a definition, the remaining fields on this screen are blank. However, when you modify the definition later, the fields are filled in, although you cannot modify them. These display-only fields are described in the following table:

Field Name	Description
FDIC=(top of screen)	The current database and file number of the Predict file.
User	The user ID of the user who generated the Format Buffer.
Date	The date the Format Buffer was generated.
Time	The time of day the Format Buffer was generated.
FDICDBIDFNR	The database and file number of the Predict file.
Adabas version	The version of Adabas for which the Format Buffer was generated.
Occurrences used	How multiple occurrences of PE and MU fields are generated in the Format Buffer and resulting field table (GFFT). A value of "M" indicates that the maximum number of occurrences should be generated (191).
	A value of "N" indicates that no occurrences will be generated. A value of "Y" indicates that the number of occurrences defined by the Predict Occ attribute should be generated.
Full format	Whether the full Format Buffer was generated. The full Format Buffer includes the length and format of Adabas fields.
	A value of "Y" indicates that the full format buffer was generated. A value of "N" indicates it was not.

Note: The Format Buffer can only be modified or deleted if it has not yet been published.

When you have supplied values for the FB ID, File ID, and Target file ID fields, press PF5 to start generating the Format Buffer.

A small window appears requesting more information:

```
+-----+
! Adabas Version ...* I7 !
! Occurrences used..* Y !
! Full format ...... Y (Y/N) !
+-------
```

6 Update the fields on this small window as described in the following table:

Field Name	Description	Default
Adabas version	The version of Adabas for which the format buffer will be generated.	I7
	The version should be expressed as "I7" or "R7". If you want special fields	
	and descriptors included in the generated FB and corresponding field tables (GFFTs), specify "R7".	
Occurrences used	How multiple occurrences of PE and MU fields are generated in the FB.	Y
	A value of "M" indicates that the maximum number of occurrences should be generated (191).	
	A value of "N" indicates that no occurrences will be generated.	
	A value of "Y" indicates that the number of occurrences defined by the Predict Occ attribute should be generated.	
Full format	You cannot edit this parameter. It indicates that the full format buffer should be generated.	Y

- When these fields are set appropriately, press Enter.
 - The Format Buffer definition and field table (GFFT) are generated and the Format Buffer screen appears.
- 8 Press PF5 to save the Format Buffer definition in the Auditing system file. After saving, the Format Buffer can no longer be deleted or modified.

Modifying Format Buffer Definitions

- > To use the Adabas Auditing Configuration to modify a Format Buffer definition in the Auditing system file:
- 1 List the Format Buffer definitions in the Adabas Auditing Configuration, as described earlier in *Listing Format Buffer Definitions*.
- 2 Locate the definition you want to modify on the screen and enter an M in the Sel column for that definition.

You can locate the definition you want in the list by pressing the PF7 (F7) or PF8 (F8) keys to scroll through the list. You can also press PF2 (F2) to specify the ID of the definition to which the list should be repositioned.

An appropriate Format Buffer definition screen appears for the Format Buffer you selected.

- 3 For information about the fields on this screen, refer to the field descriptions described earlier in *Adding Format Buffer Definitions*.
 - **Note:** You cannot alter the ID of the Format Buffer definition. If you want to rename a Format Buffer definition, first copy it using the ID you want and then delete the original.
- 4 When all modifications have been made, press PF5 to save the changes. After saving, the Format Buffer can no longer be modified or deleted.

Copying Format Buffer Definitions

- To use the Adabas Auditing Configuration to copy a Format Buffer definition in the Auditing system file:
- 1 List the Format Buffer definitions in the Adabas Auditing Configuration, as described in *Listing Format Buffer Definitions*.
- 2 Locate the definition you want to copy on the screen and enter a C in the Sel column for that definition.

You can locate the definition you want in the list by pressing the PF7 (F7) or PF8 (F8) keys to scroll through the list. You can also press PF2 (F2) to specify the ID of the definition to which the list should be repositioned.

A dialog appears requesting a Name and ID for the copy of the Format Buffer definition.

Enter new	
Name:	
ID:	
or press PF3 to cancel	

3 Specify new, unique Name and ID for the copy of the Format Buffer definition and press Enter.

The Format Buffer definition is copied and the copy appears on the List of Format Buffers screen.

Deleting Format Buffer Definitions

- > To use the Adabas Auditing Configuration to delete a Format Buffer definition in the Auditing system file:
- 1 List the Format Buffer definitions in the Adabas Auditing Configuration, as described in *Listing Format Buffer Definitions*.
- 2 Locate the definition you want to delete on the screen and enter a D in the Sel column for that definition and press Enter. The Format Buffer definition is deleted.

You can locate the definition you want in the list by pressing the PF7 (F7) or PF8 (F8) keys to scroll through the list. You can also press PF2 (F2) to specify the ID of the definition to which the list should be repositioned.



Note: The Format Buffer can only be modified if it has not yet been published.

6 Maintaining Subscription Definitions

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A Subscription is a set of specifications to be applied to the auditing of the data. These include (but are not limited to):

- Architecture key, output alpha, and wide-character keys that should be used
- Various settings relating to the availability of the subscription in specific circumstances

Subscription definitions identify subscription file definitions that should be used. At least one subscription file definition is required.

This section describes the following topics:

Listing Subscription Definitions

- To use the Adabas Auditing Configuration to list the Subscription definitions stored in the Auditing system file, complete the following steps:
- Select option S from the Adabas Auditing Configuration Main Menu.

The Available Subscriptions screen appears showing all Subscription definitions in the Adabas Auditing Configuration.

17:52:32	***	** A D A B A S AUDITING CONFIGUR. Available Subscriptions	4TION ****	2021-01-12 M-RP1400
Incomplete	Sel	Name	ID	Description
> C	_	PAYROLL_APPLICATION_SUBSCRIPTION WAREHOUSE_APPLICATION_SUBSCRIPT	PAYRSUB1 WHS00011	PAYROLL APPLIC WAREHOUSE APPL
Command ==>				
		F3PF4PF5PF6PF7PF8- xit Add ID - +	PF9PF1	0PF11PF12 Menu

The following tables describe the options on this menu.

Sel	Allows you to:					
M/E/S	Modify a Subscription definition					
С	Copy a Subscription definition					
D	Delete a Subscription definition					
PF Key	Allows you to:					
PF1	Get screen help					
PF2	Reposition to a specific Subscription definition in the list					
PF3	Exit this screen and return to the previous screen					
PF4	Add a new Subscription definition					
PF6	Toggle between the sorting of Subscriptions by ID or Name					
PF12	Exit this screen and return to the main menu					

Adding Subscription Definitions

To use the Adabas Auditing Configuration to add a Subscription definition to the Auditing system file, complete the following steps:

- Step 1. Access the Subscription Definition Area of the Adabas Auditing Configuration
- Step 2. Specify a Subscription Definition ID and Description
- Step 3. Add Destination(s) to the Subscription Definition
- Step 4. Add Source Files and related parameters to the Subscription Definition
- Step 5. Save the Subscription Definition

Step 1. Access the Subscription Definition Area of the Adabas Auditing Configuration

- To access the Subscription Definition area of the Adabas Auditing Configuration, complete the following steps:
- Select S from the Adabas Auditing Configuration main menu to list the Subscription definitions, as described above in *Listing Subscription Definitions*.
- 2 Press PF4 (Add).

The Subscription Definition screen appears.

Step 2. Specify a Subscription Definition ID and Description

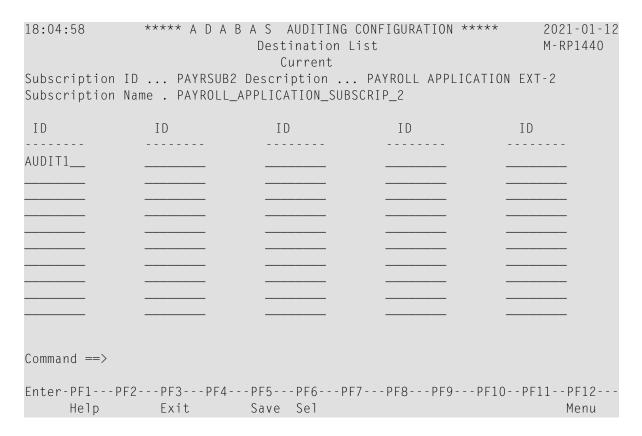
To specify a Subscription definition ID and description:

- 1 Tab to the Subscription Name field and specify a unique name for the Subscription definition. The name must use alphanumeric characters and be between 1 and 32 characters long. Embedded spaces are automatically changed to underscores.
- 2 Tab to the Subscription ID field and specify a unique ID for the Subscription definition. The ID must use alphanumeric characters and be between 1 and 8 characters long.
- 3 Tab to the Description field and specify a description of the Subscription. The description must use alphanumeric characters and be between 1 and 32 characters long.
- 4 Although no Destinations or Source Files have yet been specified for the Subscription definition, press PF5 to save it.

Step 3. Add Destination(s) to the Subscription Definition

- > To add one or more Destinations to the Subscription definition:
- On the Subscription Definition screen for the Subscription being added mark the Destination Name List field with any character (e.g. "S").

The Destination List screen appears with the Subscription ID listed at the top of the screen.



2 Type the required Destination ID (if you know it) into the list, and press PF5 to save.

Alternatively, you can press PF6 which will display the following pop-up screen which lists all the available Destinations:

18:	12:2	2 ****	* A D	A B A		DITING (lable D			****	20	021-01 M-R	l-12 P1201	
	Sel	ID	Тур	Sel	ID	Тур	Sel	ID	Тур	Sel	ID	Тур	
	_ _ _	AUDIT1 AUDIT2 DESTXYZ	AUD AUD AUD										ب
	_	INPL1	NUL										

3 Choose the required Destination by selecting it with an "S" and press PF5 to accept it.

The selected Destination is added to the Subscription definition.

Step 4. Add Source Files and related parameters to the Subscription Definition

- > To add/modify one or more Source Files (and related parameters) to the Subscription definition:
- On the Subscription Definition screen for the Subscription being added/modified mark the File-related Parameters field with any character (e.g. "S").

The List of Subscription SFILEs screen appears with the Subscription ID listed at the top of the screen.

18:24:	17	***	** A	D A	ВА	S	AUDI	TIN	G CC	NFI	GUR	ATI	ON **	***			2021-01-12
				Li	st	of S	ubsc	rip	tior	SF	ILE	S					M-RP1415
Subscr	ription				ırre												
		Name					CRIPT					_					
0 7													uest				
Sel	DBID	File	S D	1	U	ΒI	S	1	U	S	D	1	U	5	D	Ι	U
	1055	1	·							·				·			· · · · · · · · · · · · · · · · · · ·
_	1955	1	Y Y	Y	Y	IN	Y	Υ	Y	Y	Y	Y	Y	Y	Υ	Y	Υ
Comman	nd ==>																

```
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Exit Add - + Menu ↔
```

2 Press PF4 to add a new Subscription SFILE entry.

The File-Related Parameters screen appears, either by PF4 (when adding an entry) or by selecting an entry (when modifying an existing entry).

```
**** A D A B A S AUDITING CONFIGURATION ****
18:55:19
                                                           2021-01-12
                       File-Related Parameters
                                                            M-RP1420
Subscription Name ..... NAME_FOR_SUBSCRIPTION_TEST1
Subscription ID ..... TEST1
Description ..... TEST 1
DBID / File Number ..... ___
                       Format and Filter Settings
                                     Request FB ID
Data Format Buffer ID ..... ___
                                     Request Filter ID ..... _____
Data Filter ID ........._____
                                     MF Client FB ID ....._
Data Filter FB ID .::.... _____
                                     MF Client Filter ID .....
Data Origin (Mf, Luw, Both)
                                     LUW Client FB ID .....
                                     LUW Client Filter ID
Buffers Data BI FB SB VB UB Req Clnt
Select cmd ... Y Y N N N Y Y
Insert cmd ... Y
                 Υ
                                 Υ
Update cmd ... Y N Y
Delete cmd ... Y
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help
               Exit Save Sel
                                                              Menu ↔
```

The File-related parameter field names are described in the following table:

Field Name	Description	Default
Subscription Name	The previously entered Name of the current Subscription.	none
Subscription ID	The previously entered ID of the current Subscription.	none
Description	The previously entered description of the current Subscription.	none
DBID / File Number	Specify the DBid and the file number for which you want to have Auditing information extracted.	none

Field Name	Description	Default
Data Format Buffer ID	Choose an existing FB for the Data being sent.	none
Data Filter ID	Choose an existing Filter ID to apply to the Data Format Buffer.	none
Data Filter FB ID	Choose an existing Format Buffer that applies to the Data Filter ID chosen.	none
Data Origin (Mf,Luw,Both)	Specify the origin of the audit event; M for Mainframe (MF), L for Linux/Unix/Windows (LUW), or B for Both.	none
Request FB ID	Cannot be chosen at this release, internal default.	none
Request Filter ID	Specify the filter ID that will be applied to the Request FB for selection of data.	none
MF Client FB ID	Cannot be chosen at this release, internal default.	none
MF Client Filter ID	Specify the filter ID that will be applied to the Mainframe Client FB for selection of data.	none
LUW Client FB ID	Cannot be chosen at this release, internal default.	none
LUW Client Filter ID	Specify the filter ID that will be applied to the LUW Client FB for selection of data.	none
Data Buffer	Set indicators of "Y", or "N" if you desire the buffer to be sent for Select, Insert, Update, or Delete commands.	Y
BI Buffer	Set to "Y" if the Before Image Data buffer is required to be sent.	N
FB Buffer	Set to "Y" if the Format Buffer data is required to be sent.	Y
SB Buffer	Future setting, not used at the Beta release.	N
VB Buffer	Future setting, not used at the Beta release.	N
UB Buffer	Future setting, not used at the Beta release.	N
Request Buffer (Req)	For the Beta release, not available for choice.	Y
Client Buffer (Clnt)	For the Beta release, not available for choice.	Y

Notes:

- 1. The PF6 selection option applies to any of the Format or Filter ID fields. Simply place the cursor at the desired field location, press PF6, and you get a selection of the appropriate values to select from. You can also enter the name for those fields without going through the selection process.
- 2. For the Buffer areas, with the commands listed; only the Data, BI, and FB fields are selectable for setting at this release.
- 3 Press PF5 to save the Source File and related file parameters to the Subscription definition.

Step 5. Save the Subscription Definition

- > To save the Subscription definition:
- Press PF5 to save the Subscription definition in the Auditing system file.

Modifying Subscription Definitions

- > To use the Adabas Auditing Configuration to modify a Subscription definition in the Auditing system file:
- 1 List the Subscription definitions in the Adabas Auditing Configuration, as described above in *Listing Subscription Definitions*.
- 2 Locate the definition you want to modify on the screen and enter an M in the Sel column for that definition.
 - You can locate the definition you want in the list by pressing the PF7 (F7) or PF8 (F8) keys to scroll through the list. You can also press PF2 (F2) to specify the ID of the definition to which the list should be repositioned.
 - An appropriate Subscription definition screen appears for the Subscription you selected.
- 3 For information about the fields on this screen, refer to the field descriptions described above in *Adding Subscription Definitions*.
 - **Note:** You cannot alter the ID of the Subscription definition. If you want to rename a Subscription definition, first copy it using the ID you want and then delete the original.
- 4 When all modifications have been made, press PF5 to save the changes.

Copying Subscription Definitions

- \gg To use the Adabas Auditing Configuration to copy a Subscription definition in the Auditing system file:
- 1 List the Subscription definitions in the Adabas Auditing Configuration, as described in *Listing Subscription Definitions*.
- 2 Locate the definition you want to copy on the screen and enter a C in the Sel column for that definition.
 - You can locate the definition you want in the list by pressing the PF7 (F7) or PF8 (F8) keys to scroll through the list. You can also press PF2 (F2) to specify the ID of the definition to which the list should be repositioned.

A dialog appears requesting a Name and ID for the copy of the Subscription definition.

Enter new		
Name:		
ID:		
or press PF3 to cancel	←	

3 Specify new, unique Name and ID for the copy of the Subscription definition and press Enter.

The Subscription definition is copied, and the copy appears on the Available Subscriptions screen.

Deleting Subscription Definitions

- > To use the Adabas Auditing Configuration to delete a Subscription definition in the Auditing system file:
- 1 List the Subscription definitions in the Adabas Auditing Configuration, as described in *Listing Subscription Definitions*.
- 2 Locate the definition you want to delete on the screen and enter a D in the Sel column for that definition.. Press Enter. The Subscription definition is deleted.

You can locate the definition you want in the list by pressing the PF7 (F7) or PF8 (F8) keys to scroll through the list. You can also press PF2 (F2) to specify the ID of the definition to which the list should be repositioned.

Maintaining Admin Subscription Definitions

Listing Admin Subscription Definitions	. 58
Modifying Admin Subscription Definitions	. 59

An Admin Subscription is a set of specifications to be applied to the auditing of administrative data. These include (but are not limited to):

- The "Admin Subscriptions" are two predefined entries, using the reserved name/id of AD-MIN/SUBSYS1 and DDL/SUBSYS2. These are used for monitoring administrative changes and Adabas structural changes made by SYSAOS or ADADBS.
- The user must complete the entries, defining destinations and files to each of the entries. The user cannot delete these subscriptions, copy these subscriptions, or add new subscriptions to this 'Admin Subscriptions' list.

Admin Subscription definitions identify subscription file definitions that should be used. At least one subscription file definition is required.

This section describes the following topics:

Listing Admin Subscription Definitions

- To use the Adabas Auditing Configuration to list the predefined Admin Subscription definitions stored in the Auditing system file, complete the following step:
- Select option T from the Adabas Auditing Configuration Main Menu.

The Available Admin Subscriptions screen appears showing all Admin Subscription definitions in the Adabas Auditing Configuration.

16:44:04	***	** A D A B A S AUDITING CONFIGURAT Available Admin Subscription	2021-08-03 M-RP1600	
Incomplete	Sel	NAME	ID	Description
> C	-	ADMIN DDL	SUBSYS1 SUBSYS2	ADMINISTRATION STRUCTUAL CHAN
Command ==>				

```
Enter-PF1---PF2---PF3---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Help Repos Exit ID - + Menu
```

The following tables describe the options on this menu.

Sel	Allows you to:
M/E/S	Modify an Admin Subscription definition
PF Key	Allows you to:
PF1	Get screen help
PF2	Reposition to a specific Admin Subscription definition in the list
PF3	Exit this screen and return to the previous screen
PF6	Toggle between the sorting of Admin Subscriptions by ID or Name
PF12	Exit this screen and return to the main menu

Modifying Admin Subscription Definitions

To use the Adabas Auditing Configuration to complete an Admin Subscription definition to the Auditing system file, complete the following steps:

- Step 1. Access the Admin Subscription Definition Area of the Adabas Auditing Configuration
- Step 2. Add Destination(s) to the Admin Subscription Definition
- Step 3. Add Source Files and related parameters to the Admin Subscription Definition
- Step 4. Save the Admin Subscription Definition

Step 1. Access the Admin Subscription Definition Area of the Adabas Auditing Configuration

- To access the Admin Subscription Definition area of the Adabas Auditing Configuration, complete the following step:
- Select T from the Adabas Auditing Configuration main menu to list the Admin Subscription definitions, as described above in *Listing Admin Subscription Definitions*. Refer to that section to see the map that is displayed. Select one of the two predefined Admin Subscriptions for modifications.

The Admin Subscription Definition screen appears.

15:18:43 ***** A D A B A S AUDITING CONFIGURATION ***** Admin Subscription Definition	2021-08-04 M-RP1610 ↔
	4
Subscription ID ADMIN	ب
Subscription Name SUBSYS1_ Current	ب
Description ADMINISTRATION	_
	4
Destination Name List +	4
File-related Parameters +	ب
	4
Subscription Active Y	ب
	ب
	ب
	ب
	ب
	ب
	4
	4
	4
	4
Command ==>	4
Enter-PF1PF2PF3PF4PF5PF6PF7PF8PF9PF10 Help Exit Save	-PF11PF12 Menu ↔

Step 2. Add Destination(s) to the Admin Subscription Definition

- > To add one or more Destinations to the Admin Subscription definition:
- On the Admin Subscription Definition screen for the Admin Subscription being added mark the Destination ID List field with any character (e.g. "S").

The Destination List screen appears with the Admin Subscription ID listed at the top of the screen.

15:52:48	**** A D A B	A S AUDITING Destination Current	CONFIGURATION ***** List	2021-08-04 M-RP1640
Admin Subscr II Admin Subscr Na		Description .	ADMINISTRATION	
ID	I D	ID	ID	I D
AUDIT1				
Command ==>				
	?PF3PF4 Exit		F7PF8PF9PF1	0PF11PF12 Menu

Type the required Destination ID (if you know it) into the list, and press PF5 to save.

Alternatively, you can press PF6 which will display the following pop-up screen which lists all the available Destinations:

```
18:12:22
            **** A D A B A S AUDITING CONFIGURATION **** 2021-01-12
                         Available Destinations
                                                          M-RP1201
   Sel ID
              Тур
                   Sel ID Typ Sel ID Typ Sel ID
                                                              Тур
      AUDIT1
              AUD
      AUDIT2
              AUD
      DESTXYZ AUD
      INPL1
              NUL
      INPL2
              AUD
      NULL1
              NUL
      NULL2
              NUL
      TESTDAY1 AUD
      TESTNUL2 NUL
   Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11-PF12
                 Exit Accpt - +
```

2 Choose the required Destination by selecting it with an "S" and press PF5 to accept it.

The selected Destination is added to the Admin Subscription definition.

Step 3. Add Source Files and related parameters to the Admin Subscription Definition

For the ADMIN/SUBSYS1 Admin Subscriptions Definition, the parameters to be added or modified are related only to a specified DBID.

For the DDL/SUBSYS2 Admin Subscriptions Definition, the parameters to be added or modified are related to a specified DBID AND a specified FILE

> To add/modify the parameters of the ADMIN/SUBSYS1 Admin Subscription Definition

- On the Admin Subscription Definition screen of ADMIN/SUBSYS1, mark the DBID-related Parameters field with any character (e.g. "S").
- 2 The 'List of Subscription DBIDs' screen appears with the Subscription ID listed at the top of the screen.

```
**** A D A B A S AUDITING CONFIGURATION *****
19:12:47
                                                               2021-09-14
                     List of Admin Subscription DBIDs
                                                                M-RP1615
Subscription ID
                  SUBSYS1
                          Current
Subscription Name ADMIN
                           send Client
               send Data
Se1
      DBID
                 Admin
                                 Admin
                  Υ
                                   Υ
      1958
Command ==>
Enter-PF1---PF2---PF3---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
                Exit Add
```

- 3 Press PF4 to add a new Admin Subscription DBID entry.
- 4 The DBID-Related Parameters screen appears, either by pressing PF4 (when adding an entry) or by selecting an entry (when modifying an existing entry).

```
**** A D A B A S AUDITING CONFIGURATION *****
19:13:01
                                                              2021-09-14
                     Admin DBid-Related Parameters
                                                              M-RP1620
Subscription Name .... ADMIN
Subscription ID ..... SUBSYS1
                              Current
Description ..... ADMINISTRATION
DBID ....._1958
Buffers Data Client
Admin cmds ... Y Y
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
                Exit Save Sel
     Help
                                                                 Menu
```

5 Press PF5 to save the parameters to the Admin Subscription definition.

> To add/modify parameters of the DDL/SUBSYS2 Admin Subscription Definition

- 1 On the Admin Subscription Definition screen of DDL/SUBSYS2, mark the File-related Parameters field with any character (e.g. "S").
- 2 The List of Subscription SFILEs screen appears with the Subscription ID listed at the top of the screen.

19:13:26	***	** ADABAS List of Ad	aUDITING CC		****	2021-09-14 M-RP1616 ↔
Subscription	ID	SUBSYS2	Current			4
Subscription	Name	DDL				Ļ
		send Data	send Client			ب
Sel DBID	File	DDL	DDL			ب
_ 1958	1	Υ	Υ			ب
						4
						↓
						φ
						ب ب
						· e
						ب
						ب
						ب
						ب
						Ą
Command ==>						ب
Enter-PF1F Help		F3PF4PF5 xit Add		PF8PF9- +	PF10PF1	1PF12 Menu ↔

- 3 Press PF4 to add a new Admin Subscription SFILE entry.
- 4 The File-Related Parameters screen appears, either by pressing PF4 (when adding an entry) or by selecting an entry (when modifying an existing entry).

```
19:13:40
              **** A D A B A S AUDITING CONFIGURATION *****
                                                             2021-09-14 ↔
                     Admin File-Related Parameters
                                                               M-RP1621 ↔
Subscription Name .... DDL
Subscription ID ..... SUBSYS2 Current
Description ..... STRUCTURAL CHANGES TO DATABASE
DBID / File Number .... _1958 ___1
Buffers Data Client
DDL cmd ..... Y Y
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--- ↔
                          Save Sel
     Help
                Exit
                                                                  Menu ↩
```

5 Press PF5 to save the parameters to the Admin Subscription definition.

The File- and DBID-related parameter field names are described in the following table:

Field Name	Description	Default
Subscription Name	The previously entered name of the current Admin Subscription.	None
Subscription ID	The previously entered ID of the current Admin Subscription.	None
Description	The previously entered description of the current Admin Subscription.	none
DBID	Specify the DBid and the file number for which you want to have Auditing information extracted.	none
File Number	Specify the file number for which you want to have Auditing information extracted.	none
Data Buffer	Set indicators of "Y", or "N" if you desire the buffer to be sent.	Y
Client Buffer (Clnt)	For this release, not available for choice.	Y



Notes:

- 1. The PF6 selection option applies to any of the Format ID fields. Simply place the cursor at the desired field location, press PF6, and you get a selection of the appropriate values to select from. You can also enter the ID for those fields without going through the selection process.
- 2. For the Buffer areas, with the commands listed; only the Data field is selectable for setting at this release.

Step 4. Save the Admin Subscription Definition

- > To save the Admin Subscription definition:
- Press PF5 to save the Admin Subscription definition in the Auditing system file.

8

Maintaining Global Definitions

> To maintain Global definitions:

1 Select option 'V' from the Adabas Auditing Configuration main menu.

The following screen appears:

17:02:21	**** A D A B	B A S AUDITING CON Global Definitio		2021-08-04 M-RP1110
Auditing pool wa Increment Message Interva Message Limit Percent		60 5		
Connect Count Connect Interva				
Destination Ful	l Delay	_60		
Maximum Output S	Size	100000		
Log Input		NO_		
Open at Start .		Υ		
	PF3PF4 Exit		-PF8PF9PF10P	F11PF12 Menu

The Global definition field names are described in the following table:

Field Name	Description	Default
Auditing Pool Warning Message Increment	The increment, in percent of auditing pool usage, at which auditing pool warning messages should be written.	10
mcrement	Valid values are 1 – 99.	
Auditing Pool Warning Message Interval	messages are suppressed on the console.	
	Valid values are 1 – 2,147,483,647.	_
Auditing Pool Warning Message Limit	The number of auditing pool usage messages that may be written before these messages are suppressed. Valid values are 1 – 2,147,483,647.	5
Auditing Pool Warning Percent	The interval, in seconds, during which auditing pool usage warning messages are suppressed on the console.	0
	The percent of auditing pool usage, at which auditing pool warning messages should be written.	
	Valid values are 0 - 99.	
	The default value of 0 means warning messages will not be written.	
Connection Count	The number of connection attempts to the Audit Server an Adabas nucleus should attempt when the first attempt to connect fails.	0
	Valid values are 0 – 2,147,483,647.	
	A value of 0 means no subsequent connection attempts will be made after the first connection attempt fails.	
Connection Interval	The interval, in seconds, between connection attempts when an attempt to connect to an Audit Server by an Adabas nucleus fails.	0
	Valid values for this parameter are 0 – 2,147,483,647.	
	A value of 0 means no subsequent connection attempts will be made after a connection attempt fails.	
Destination Full Delay	The number of seconds between retry attempts when resending auditing data to a defined destination.	60
Max Output Size	The maximum output message size for the Adabas Auditing. The minimum value you can specify for this field is 32768.	100000
	This parameter may be specified in bytes or it may be specified with the suffix K to indicate kilobytes. The maximum value is 2,147,483,647 bytes. The practical maximum is limited by the region size of the Adabas Audit Server. One output buffer is acquired for each output task.	
Log Input	Whether or not the Adabas Audit Server should use its SLOG system file as a temporary storage location for incoming audit data before they are queued for processing. Once audit data has been written to the SLOG system file, the Adabas Audit Server processes them using a throttling	NO

Field Name	Description	Default
	mechanism so that only a limited amount of the Audit pool (LAP) space is used at a time. Valid values are:	
	■ ALL (indicating that input audit data will always be written to the SLOG system file)	
	■ NO (the default, indicating that input audit data will not be written to the SLOG system file), or	
	■ an integer in the range from 1 to 99. The integer setting specifies a threshold percentage of the LAP (Audit pool space) that can be used before triggering the writing of input audit data to the SLOG system file	
Open at Start	Use this field to indicate whether or not destinations with Open at Start set to G in their definitions should be opened at Audit Server startup.	YES
	This parameter specifies the global policy for determining whether destinations with Open at Start set to G are opened at startup. Valid values are Y or N, with Y as the default.	
	When this parameter is set to Y, any definitions with Open at Start set to G in destination queue are opened at Auditing Server startup. When this parameter is set to N, any definitions with Open at Start set to G in the destination queue are not opened at Auditing Server startup.	

2 Press PF5 to save your settings.

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Maintaining LFILE Parameters

> To change or set the LFILE parameter:

1 Select option 'U' from the Adabas Auditing Configuration main menu.

The following screen appears:

2 Determine the Auditing system file to maintain by specifying the database ID of the Adabas Audit Server and the file number of the Auditing system file.