

Adabas Auditing on Mainframe

Release Notes

Version 221

October 2021

This document applies to Adabas Auditing on Mainframe Version 221 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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Document ID: ALA-RELNOTES-TBD-20211008

Table of Contents

1 About this Documentation	1
Document Conventions	2
Online Information and Support	2
Data Protection	3
2 Release Notes	5
New Features / Enhancements	6

1 About this Documentation

- Document Conventions 2
- Online Information and Support 2
- Data Protection 3

Document Conventions

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

Online Information and Support

Software AG Documentation Website

You can find documentation on the Software AG Documentation website at <https://documentation.softwareag.com>.

Software AG Empower Product Support Website

If you do not yet have an account for Empower, send an email to empower@softwareag.com with your name, company, and company email address and request an account.

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- Link to external websites that discuss open standards and web technology.

Data Protection

Software AG products provide functionality with respect to processing of personal data according to the EU General Data Protection Regulation (GDPR). Where applicable, appropriate steps are documented in the respective administration documentation.

2 Release Notes

- New Features / Enhancements 6

Release notes of Adabas Auditing for z/OS.

New Features / Enhancements

- Audit Server Audit Log (ALOG)
- AUDCONNECT Operator Command and Utility
- Clarification of Audit ID and Audit Name
- DAUDPARM Command Enhancement
- DAUDSTAT Command Enhancement
- Auditing of Database Administration and DDL
- Messages Written to DDAUDERR
- Audit Server System File Update

Audit Server Audit Log (ALOG)

The Audit Log replaces the Command Log in the Audit Server. Refer to the following table for topics concerning the creation and operation of Audit Logs.

Topic	Description
Create Audit Logs	DDALOGRn datasets must be created and formatted. For more information, refer to ADAFRM ALOGFRM.
ADARUN parameters	ADARUN parameters must be added to control Audit Log processing. For more information relating to the parameters DUALALD, DUALALS, NALOG, ALOGDEV and ALOGSIZE, refer to Pertinent ADARUN Parameters for Auditing.
Force End-of-file	The operator command FEOFAL is used to force end-of-file on the current Audit Log. For more information, refer to FEOFAL Command.
Add/Delete Audit Logs	Audit Logs can be added and deleted using the ADADBS utility. For more information, refer to ADADBS ADDALOG and ADADBS DELALOG respectively.
Copying Audit Logs	Audit Logs are copied using the ADARES utility. For more information, refer to ADARES ALCOPY.

AUDCONNECT Operator Command and Utility

In the event of a disconnection between an Auditing Database and an Audit Server, the AUDCONNECT command may be used to re-establish a connection.

- For support by an Operator Command, refer to AUDCONNECT Command.
- For support by the ADADBS utility, refer to ADADBS OPERCOM AUDCONNECT.
- For support by Adabas Auditing Administration Services (SYSALAA), refer to Force Connection Attempt.

Clarification of Audit ID and Audit Name

When auditing is enabled for a file in an Auditing Database, an Audit Name must be assigned to the file and Adabas will then automatically assign an Audit ID.

In the previous version of Adabas Auditing, the Audit Name used by the utilities ADACMP, ADADBS and ADALOD was incorrectly labelled as AUDITID. This caused confusion between the user assigned Audit Name and the Adabas automatically assigned Audit ID. This has been corrected in Adabas Auditing version 2.2 SP1. The Audit Name used by utilities is now correctly referred to as AUDITNM.

For more information, refer to the following utility documentation:

- For ADACMP, refer to ADACMP COMPRESS AUDITNM=
- For ADADBS, refer to ADADBS MODFCB AUDITNM=
- For ADALOD, refer to ADALOD LOAD Parameters

DAUDPARM Command Enhancement

The ADADBS OPERCOM DAUDPARM utility issued to an Audit Server previously only reported the global parameters. With this new version all pertinent configuration is now reported.

For more information, refer to ADADBS OPERCOM DAUDPARM.

DAUDSTAT Command Enhancement

The operator command DAUDSTAT and the ADADBS OPERCOM DAUDSTAT have been enhanced to report the following information:

- The number of items rejected due to errors
- The number of admin items
- The number of GFFT items

For more information, refer to ADADBS OPERCOM DAUDSTAT.

Auditing of Database Administration and DDL

This version of Adabas Auditing introduces two new classes of Audit events; Administration and Structural Database Changes (DDL):

- An Administration event is one which inquires or alters the state of the database. For example, ADADBS OPERCOM DAUDPARM and ADADBS OPERCOM FEOFAL.
- A Structural Database Change (DDL) event is one which alters the structure of the database such as adding a new field or deleting an existing field.

These new classes of Audit events are supported by corresponding new Subscriptions which are automatically defined when an Audit system file is created:

- A Subscription named ADMIN with an ID of SUBSYS1 is created for Administration events.
- A Subscription named DDL with an ID of SUBSYS2 is created for DDL events.

Additional configuration has also been added to enable the administration of these new events:

- Adabas Auditing Configuration (SYSALA) new menu option T for Admin Subscription Definitions has been added.
- New Auditing Database (ADAANP) File parameters have been added to enable the auditing of administration and DDL events at the file level. Specified in the ADAANP DD input, the new file parameters are FADMPARM and FADMINFO. For example:

```
ADAANP FILE
ADAANP FLIST=1,100
ADAANP FACCD=YES          Collect data storage (compressed record)
ADAANP FDELD=YES          Collect data storage (compressed record)
...
ADAANP FADMPARM=YES        Collect admin and DDL event data
ADAANP FADMINFO=YES        Collect admin and DDL client info
```

Messages Written to DDAUDERR

The Audit Server now requires a DDAUDERR DD card.

For example:

```
//DDAUDERR DD SYSOUT=X
```

The majority of messages are written to the console however certain messages will now be written to DDAUDERR.

Messages written to DDAUDERR are formatted similarly to multi-line console messages with the message number and Database ID appearing only on the first line. Each line is prefixed with the Julian date and local time.

Audit Server System File Update

Changes to the structure and content of the Audit system file require that a new system file must be loaded into the Audit Server using the ALLSYSF dataset supplied with this version of Adabas Auditing.

For more information on loading an Audit system file, refer to ADALOD LOAD Parameters for the Adabas Audit Server.

Notes:

- Reloading the Audit system file will require the recreation in SYSALA of any configuration you may have defined using the previous version of Adabas Auditing (for example subscriptions, destinations, filters, etc..).
- After loading the new Audit system file, the predefined subscriptions SUBSYS1 and SUBSYS2 will require updating to avoid the following warning messages:

```
ADAAJZ At least one destination is required for subscription SUBSYS1  
ADAAJZ At least one destination is required for subscription SUBSYS2
```

