software AG

Adabas SAF Security

Adabas SAF Security Operations and Reporting (AAFCMD)

Version 8.4.1

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ADABAS & NATURAL

Table of Contents

1   About this Documentation

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 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 (...).

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2 Adabas SAF Security Operations and Reporting (AAFCMD)

The AAFCMD tool provides operation and reporting functions for Adabas SAF Security v8.4.1 running in an Adabas nucleus, an Adabas Audit Server, an Adabas Event Replicator Server, or an Adabas System Coordinator daemon.

AAFCMD is invoked using Natural in batch mode.

> **Note:** This documentation frequently refers to a "database" as being the target of AAFCMD requests. Please note that this can be an instance of an Adabas nucleus, an Adabas Audit Server, an Adabas Event Replicator Server, or an Adabas System Coordinator daemon.

Using AAFCMD in Batch Mode

In a batch Natural environment

- use AAFCMD as the program name;
- define the Natural printer `CMPRT01`;
- execute the utility from the required SYSMX*vrs* library.

The syntax of the AAFCMD service commands is as follows:

```
command [keyword(s)]
```

Each line of input to the Natural batch program must contain at least a command and the `DBID` keyword. The `DBID` keyword must refer to a database running Adabas SAF Security version 8.4.1. Some commands require the use of additional keywords. All combinations are defined later in this section.

The commands and keywords can be entered in any order. Extra, unnecessary keywords are ignored and listed with a warning. In the event of missing keywords, the command is not executed and the missing keywords are listed.

> **Note:** Depending on the configuration parameter `AAFCMD` on the target DBID, the AAFCMD functions may be subject to a security check on the target to make sure the user ID has access to perform the desired function. Resource names are the same as when protecting SYSAAF Online Services using a System Coordinator daemon (except that a daemon is not required here, the checking is done on the target DBID). For more information, see Resource Names for ADASAF.

Commands

The following commands can be used:

STATS	Displays overview information about security activity in the selected database. If the optional USERID is specified, the command displays statistics for the specified SAF user ID.
LIST	Displays all SAF user IDs that are stored in the security server for the selected database.
FILES	Displays cached file information for the client session associated with a given SAF user ID in the selected database.
RESET	Reset statistics and discard cached authorizations for a given SAF user ID in the selected database.
LOGOFF	Log off a given SAF user ID from the security system in the selected database. All security information is discarded.
RESTART	Restart the security service in the selected database. All cached security information is discarded and the security service is restarted.
PARMS	Displays the security parameters currently in effect for the selected database.
FIXES	Displays the applied Adabas SAF Security fixes to the selected database.

Keywords

The following keywords are available:

Keyword	Description
DBID	Mandatory for all requests and actions. The database number of the database running Adabas SAF Security for which statistics or actions are required.
USERID	Optional. The SAF user ID in the selected database that is the subject of the action or query.
NUCID	Optional. For use when the target DBID is an Adabas Cluster Services or Adabas Parallel Services instance and a specific nucleus ID is required.

STATS Command

The `STATS` command provides statistics at the database or daemon security service level. It is the equivalent of SYSAAF Menu option 1, System Statistics. For more information about SYSAAF option 1, see System Statistics.

If used in conjunction with the `USERID` keyword, `STATS` provides functionality equivalent to SYSAAF Menu option 2, SAF User ID statistics, sub-function S (statistics). For more information about SYSAAF Menu option 2, see SAF User ID Statistics.

Example Syntax

COMMAND	EXPLANATION
STATS DBID=12345	Display security service level statistics for database 12345.
STATS DBID=12345 USERID=USER1	Display SAF user ID level statistics for USER1 on database 12345.

LIST Command

The `LIST` command displays all SAF user IDs currently active on a database. It is the equivalent of SYSAAF Menu option 2, SAF User ID statistics.

For more information about SYSAAF Menu option 2, see SAF User ID Statistics.

Example Syntax

COMMAND	EXPLANATION
LIST DBID=12345	Display all active SAF user IDs on database 12345.

FILES Command

The `FILES` command displays the internal communication ID for the Adabas client session, the Cross Level ID under which the client session is operating, the effectiveness of ADASAF's cache for this client session, and the cached files and access levels currently held for the selected database for the given SAF user ID.

A SAF user ID may have more than one cache entry, for example when accessing a database from different jobs.

It is the equivalent of SYSAAF Menu option 2, SAF User ID statistics, sub-function C (cached files). For more information, see SAF User ID Cached Files (for databases)

Example Syntax

COMMAND	EXPLANATION
`FILES DBID=12345 USERID=USER2`	Display all cached file information for USER2 on database 12345.

RESET Command

The `RESET` command resets a SAF user ID's statistics and discards cached authorizations.

It is the equivalent of SYSAAF Menu option 2, SAF User ID statistics, sub-function R (reset).

Example Syntax

COMMAND	EXPLANATION
`RESET DBID=12345 USERID=USER3`	Reset statistics and discard cached authorizations for USER3 on database 12345.

LOGOFF Command

The `LOGOFF` command logs the SAF user ID off from the security system, completely discarding all security information.

It is the equivalent of SYSAAF Menu option 2, SAF User ID statistics, sub-function L (logoff).

Example Syntax

COMMAND	EXPLANATION
`LOGOFF DBID=12345 USERID=USER4`	Log USER4 completely off the security system on database 12345.

RESTART Command

The `RESTART` command restarts your security service in the specified nucleus or daemon. All cached security information is discarded and security operation is restarted.

It is the equivalent of SYSAAF Menu option 6, Server Restart. For more information about SYSAAF Menu option 6, see Server Restart

Example Syntax

COMMAND	EXPLANATION
`RESTART DBID=12345`	Restart the security service in database 12345.

PARMS Command

The `PARMS` command displays the System Parameters in effect for the security service.

It is the equivalent of SYSAAF Menu option 8, System Parameters. For more information about SYSAAF Menu option 8, see System Parameters

Example Syntax

COMMAND	EXPLANATION
`PARMS DBID=12345`	Display the System Parameters in effect for database 12345.

FIXES Command

The `FIXES` command displays the applied to the database Adabas SAF Security maintenance fixes.

It is the equivalent of SYSAAF Menu option 3, Fix Display. For more information about SYSAAF Menu option 3, see Fix Display

Example Syntax

COMMAND	EXPLANATION
`FIXES DBID=12345`	Display Adabas SAF Security fixes applied to database 12345.

AAFCMD Summary

The following table lists all AAFCMD command and keyword combinations, along with the Natural program that performs the function. Natural security can be applied as required.

Command	Keywords	Program
STATS	`DBID=`	`A15110P`
	`DBID= NUCID=`	`A15110P`
	`DBID= USERID=`	`A15110P`
	`DBID= USERID= NUCID=`	`A15110P`
LIST	`DBID=`	`A15200P`
	`DBID= NUCID=`	`A15200P`
FILES	`DBID= USERID=`	`A15300P`
	`DBID= USERID= NUCID=`	`A15300P`
RESET	`DBID= USERID=`	`A15400P`
	`DBID= USERID= NUCID=`	`A15400P`
LOGOFF	`DBID= USERID=`	`A15500P`
	`DBID= USERID= NUCID=`	`A15500P`
RESTART	`DBID=`	`A15600P`
	`DBID= NUCID=`	`A15600P`
PARMS	`DBID=`	`A15700P`
	`DBID= NUCID=`	`A15700P`
FIXES	`DBID=`	`A15800P`
	`DBID= NUCID=`	`A15800P`