

## **Adabas SAF Security**

### **Adabas SAF Security Online Services**

Version 8.1.2

June 2014

This document applies to Adabas SAF Security Version 8.1.2.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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# 1 Adabas SAF Security Online Services

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This section describes the use of the AAF Online Services.

AAF Online Services is provided to help set up and monitor the operation of ADASAF. The administrator can view information about the current parameter settings and resource utilization of ADASAF in a given Adabas nucleus. The information can also be accessed using ADASAF operator commands.

The information provided is useful for tuning ADASAF. It includes statistics at both the nucleus and user level. A list of maintenance ZAPs that have been applied, as well as diagnostic information, also can be displayed.

|                                  |   |
|----------------------------------|---|
| <b>Using AAF Online Services</b> | Online Services general use and navigation.             |
| <b>Database Statistics</b>       | Provides statistics at the database level.              |
| <b>SAF User ID Statistics</b>    | Provides SAF user statistics.                           |
| <b>Zap Display</b>               | Display zap information.                                |
| <b>Internal Storage Display</b>  | Display internal storage areas.                         |
| <b>Trace Display</b>             | Display database trace information.                     |
| <b>Server Restart</b>            | Restart Adabas SAF server.                              |
| <b>System Parameters</b>         | Display Adabas SAF system parameters.                   |
| <b>About SAF Security</b>        | Display overview information about Adabas SAF Security. |



## 2 Using Adabas SAF Security Online Services

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|                                   |   |
|-----------------------------------|---|
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| ▪ Navigation .....                | 5 |
| ▪ Using PF Keys .....             | 6 |
| ▪ Help Information .....          | 6 |

## Online Services Main Menu

AAF Online Services is available from a Natural application installed in library SYSAAF.



**Note:** Because of the sensitive nature of ADASAF, you are advised to ensure that the Natural application SYSAAF is well protected using Natural Security.

### ▶ to invoke Adabas SAF Security Online Services

- select Adabas SAF Security (option 9) from the AOS main menu,

Or:

log on to SYSAAF and enter the command MENU.

The Main Menu screen will then appear:

```

12:34:15  ***** A D A B A S   SAF SECURITY SERVICES 8.1.2 *****   2006-05-27
                                     - Main Menu -                               A1MAINM1

          Code   Service
          ----   -
          1     System Statistics
          2     SAF User ID Statistics
          3     Zap Display
          4     Storage Display
          5     System Tracing
          6     Server Restart
          8     System Parameters
          9     About SAF Security
          .     Exit
          ----   -

Code.....: _           You can easily switch around the
Database ID.: 153__     tools for Fastpath, Vista etc by
NucID.....: _____ use of the PF Keys shown, or use
System Coordinator Node..: _____ the codes COR, AFP, AVI, AAF, ATM
SAF User ID.....: _____ as commands - anytime.

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

To select an option, enter a code and a Database ID. To communicate with ADASAF in a particular nucleus running as part of an Adabas Cluster or Parallel Services environment, enter the NucID as well as the Database ID. Alternatively, if you do not know the available NucIDs, enter the



Database ID and the node number of the Adabas System Coordinator daemon for that cluster to obtain a list of active NuclIDs for the database, from which you may select one.

For SAF User ID Statistics (option code 2), also enter a SAF User ID if you wish to view statistics for an individual user ID without first displaying the list of active user IDs.

From the main menu, you may switch to the online systems of Adabas System Coordinator (PF6), Adabas Fastpath (PF7), Adabas Vista (PF8), or Adabas Transaction Manager (PF10), by pressing the appropriate PF key. You may also switch from any screen with a Command ==> line by entering the appropriate three-character code as a command.

PF12 can be used to display a list of installed versions of SYSAAF. To select the required version, mark it with any non-blank character. The default is to use the latest installed version. The ADASAF demo INPL is supplied with Adabas and is converted to full licensed mode by installing the INPL dataset supplied with ADASAF. If any of the versions on the screen are followed by (D), it indicates that only the demo INPL was installed for that version. The online services version selected will work with the same or later versions of ADASAF in a protected nucleus.

The following options are available:

| Option                                 | Description                                |
|--|--|
| <a href="#">System Statistics</a>      | Provides statistics at the database level. |
| <a href="#">SAF User ID Statistics</a> | Provides statistics for SAF user IDs.      |
| <a href="#">Zap Display</a>            | Display zap information.                   |
| <a href="#">Storage Display</a>        | Display internal storage information.      |
| <a href="#">System Tracing</a>         | Display trace information.                 |
| <a href="#">Server Restart</a>         | Restart server.                            |
| <a href="#">System Parameters</a>      | Display system parameters.                 |
| <a href="#">About SAF Security</a>     | Display product overview information.      |

## Navigation

---

- [Navigation](#)

- [Entering Commands](#)

## Navigation

From the main menu, you enter an option code, an ADASAF-protected Database ID, and an optional user ID. To move from one option to another, you can return to the main menu using PF12, or enter the number of the desired target option in the command line.

## Entering Commands

The command line in the SYSAAF screens is useful for jumping quickly from one function to another. For example, entering the value 2 on the command line will invoke the User Statistics option. If you enter an invalid number, you are returned to the main menu.

You can also use the command line to change the ID of the database that you are monitoring without returning to the main menu. Enter the `dbid=nnnnn` (this can be abbreviated to `db=`). For example, `dbid=12345` or `db=12345`. Alternatively, you can change the Database ID by simply overtyping it on any screen.

Any other command is passed to Natural.

## Using PF Keys

---

Throughout SYSAAF, PF1 (Help) provides information about the current function, PF3 is Exit and PF12 returns to the main menu.

In list functions, PF7 (Up) and PF8 (Down) scroll up and down the list, PF6 (Top) returns to the top of the list, and PF9 (Btm) goes to the end of the list. PF9 is available only in the system trace display.

## Help Information

---

### ▶ To invoke help information

- Press PF1.

The help screen that appears applies to the current screen and may comprise several pages. From each help screen, you can access lower level options or return to previous, higher levels.

# 3 Database Level Statistics

This option provides statistics at the database level.

```
12:18:55   ***** A D A B A S   SAF SECURITY SERVICES 8.1.2 *****   2006-05-17
           - Database Level Statistics -                               A11000M1

           Database: 153__
           Buffer Size(k): 512           Address: 1B792000
           System initialized on: 2006-05-17 at: 10:53:01

SAF Statistics:
Authorization   Check (+ve)  Check (-ve)  Check Saved  Overwrites  Length
ADABAS (Normal)      106         1      10201691      0          17
ADABAS (Xlevel)      104         0         21           0          17

Active SAF Users: 8           Overwrites.: 0           Max.: 8
Free SAF Users...: 443       Allocations: 21

Cached File Area Statistics:
Address.....: 1B691148      High Water.: 1B692258      Max.Used.: 22
First Free...: 1B692328      Last Used...: 1B692258      Curr.Used: 22
Files/entry.: 10           Overwrites.: 0           Saved.....: 10201672

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

The following information is provided:

| Field                              | Description   |
|------------------------------------|---|
| Database                           | The database number.  |
| Buffer                             | The amount of storage (in kilobytes) to be used for caching user information related to the security system.<br><br>For more information, see the parameter <code>GWSIZE</code> .         |
| Address                            | Address in memory of the SAF Server cache.  |
| System initialized                 | Date and time system was last initialized.  |
| <b>SAF Statistics:</b>             | Effectiveness of the SAF Server cache. Shows information for normal and cross-level checks:   |
| Authorization                      | Indicates type of authorization (normal or cross-level).  |
| Check (+ve)                        | The number of successful authorizations against the external security system.   |
| Check (-ve)                        | The number of failed authorizations against the external security system (access denied).   |
| Check Saved                        | The number of times the SAF Server satisfied an authorization request from its cache, without calling the external security system.   |
| Overwrites                         | The number of times the SAF Server had to overwrite a previously cached authorization request. If this number is high, consider increasing <code>DBNCU</code> and/or <code>NWNCU</code> . |
| Lngh                               | The length of the resource profile names.   |
| Active SAF Users                   | The current number of active SAF users.   |
| Overwrites                         | The number of active entries that had to be overwritten.  |
| Max.                               | The maximum number of active SAF users.   |
| Free SAF Users                     | The number of free user areas.  |
| Allocations                        | The number of times a user area was allocated.  |
| <b>Cached File Area Statistics</b> | Effectiveness of ADASAF's Cached File Area (CFA)  |
| Address                            | Address in memory of the CFA.   |
| High Water                         | The highest used address in the CFA.  |
| Max Used                           | Maximum used CFA entries.   |
| First Free                         | Address of first free CFA entry.  |
| Last Used                          | Address of highest used CFA entry.  |
| Curr Used                          | Current number of used CFA entries.   |
| Files/entry                        | Number of files cached in each CFA entry.   |
| Overwrites                         | The number of times ADASAF had to overwrite a previously cached file. If this number is high, consider increasing <code>MAXFILES</code> .   |
| Saved                              | The total number of times ADASAF satisfied an authorization request without calling the SAF Server or the external security system.   |

# 4 SAF User Statistics

---

- List of Active SAF Users ..... 10
- SAF User ID Statistics ..... 11
- SAF User ID Cached Files ..... 12

This option provides information on active users.

## List of Active SAF Users

---

Selecting code 2 from the main menu causes a list of active SAF user IDs to be displayed (unless a SAF User ID parameter was also specified, in which case the SAF User ID Statistics screen will be displayed).

```

12:26:50   ***** A D A B A S   SAF SECURITY SERVICES 8.1.2 *****   2006-05-17
           -   SAF User ID List for Database: 153   -   A12000M1

           C       SAF User ID       Date       Time
           -       UKDEV3       2006-05-17   11:32:53
           -       DAEFCODE       2006-05-17   10:53:01
           -       UKSJU       2006-05-17   11:31:23
           -       UKSJU1       2006-05-17   11:30:57
           -       UKDEV2       2006-05-17   11:32:51
           -       UKDEV1       2006-05-17   11:32:50
           -       UKDEV4       2006-05-17   11:32:58
           -       UKDEV5       2006-05-17   11:33:02

Mark with S(tatistics), C(ached Files), R(eset), L(ogoff)
Top of List
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help       Exit  Refr                               Menu
    
```

In the Command (C) column, enter S to view a user ID's statistics, C to view a user ID's cached file details, R to reset that user ID's statistics, or L to log the user ID off from the security system, which will discard the user ID's cached security information.

## SAF User ID Statistics

The SAF user ID statistics screen shows the number of times that the security system was called for the selected user ID and gives information on the number of successful and unsuccessful verifications made against the external security system. It also shows the number of verifications satisfied from the resource profile cache, the number of times an entry for this user ID was overwritten, and the current number of cached checks for this user ID.

```
12:29:36   ***** A D A B A S   SAF SECURITY SERVICES 8.1.2 *****   2006-05-17
           - SAF User ID Statistics for Database: 153   -   A12100M1
```

```
SAF User ID: DAEFCODE
```

```
Initialized from: Adabas Cross-Level   on: 2006-05-17 at: 10:53:01
```

| Authorization   | Check (+ve) | Check (-ve) | Check Saved | Overwrites | Active |
|-----------------|-------------|-------------|-------------|------------|--------|
| ADABAS (Normal) | 0           | 0           | 0           | 0          | 0      |
| ADABAS (Xlevel) | 2           | 0           | 21          | 0          | 2      |

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

Pressing PF5 will log this user ID off from the security system and discard associated security information from ADASAF.

## SAF User ID Cached Files

This screen shows, for a given SAF user ID, 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, as well as the cached files and access levels currently held for it.

A SAF user ID may have more than one cache entry, for example when accessing a database from different jobs. PF10 can be used to scroll through all the cache entries for that SAF user ID.

```

12:33:42  ***** A D A B A S   SAF SECURITY SERVICES 8.1.2 *****   2006-05-17
          - SAF User ID Cached Files for Database: 153           -   A12200M1

Communication ID: 000FA10E208600004040404040404000F61380C5D6D9C3F0F14040
SAF User ID.....: UKDEV1
Cross Level ID..: UKDEV1

Saved Checks.....: 599994
Number of Files..: 6
Last File Access: 300
Overwrites.....: 0

File Details
File L      File L      File L      File L      File L      File L      File L      File L
   7 R       11 R       12 R       18 R       78 R       300 R

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

```



# 5 Zap Display

---

This option can be used to display a list of applied zaps. This information may be requested by your Software AG technical support representative for problem diagnosis.

```
12:13:11 ***** A D A B A S   SAF SECURITY SERVICES 8.1.2 (I001) *** 2009-10-29
      - Display Applied Zaps -                               A13000M1
Version: AAF 8.1.2  Assembly Date: 12/28/06 Build: 0000 Database: 153__

001  002  003  004  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---
---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---
---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---
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---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---
---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---

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



## 6 Internal Storage Display

This option is used to display certain ADASAF internal storage areas. You can scroll the display or position to a given location by entering it in the Address field.

```

09:22:42      ***** A D A B A S SAF SECURITY SERVICES 8.1.2 *****      2006-04-06
                - Display Storage for Database: 153 -                          A14000M1

Address      <-----Memory Contents-----> Offset      Characters
00000000 * 034A5000 I D5C1F2E2 C9C1F3F1 AD1FF257 ADEB7211 I NA2SIA310?2000?
00000010 * 034A5010 I 00003000 034A5000 034A5000 034A8000 I ? ?$& ?$& ?$&
00000020 * 034A5020 I 000A2B00 034A5E28 034A7C64 00000000 I ?? ?$;??$@a
00000030 * 034A5030 I 00000000 00000000 00000000 00000000 I
00000040 * 034A5040 I 00000000 00000000 00000000 00000000 I
00000050 * 034A5050 I 00000000 00000000 00000000 00000000 I
00000060 * 034A5060 I 00000000 00000000 00000000 00000000 I
00000070 * 034A5070 I 410000F2 00000000 01240008 0000000C I [ 2 ?? ? ?
00000080 * 034A5080 I 00040002 00020002 00020001 00000000 I ? ? ? ? ? ?
00000090 * 034A5090 I 00080020 000D0018 00080020 00000000 I ? ? ? ? ? ?
000000A0 * 034A50A0 I 0034004C 0024003C 001C0028 00000000 I ? < ? ? ? ?
000000B0 * 034A50B0 I 00E00114 01600184 01C001DC 02040204 I \???-?d?{?00000000 I ? ?
000000D0 * 034A50D0 I 00000000 00000000 00000000 00000000 I
000000E0 * 034A50E0 I 00000002 00000000 00000000 00000005 I ? ?
000000F0 * 034A50F0 I 00000000 00000000 00000000 00000000 I

Address      :

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

```



# 7 Trace Display

---

This option can be used to display the last 256 trace points taken. You may be asked to provide this information by your Software AG technical support representative.

```
09:24:24  *****  A D A B A S SAF SECURITY SERVICES 8.1.2  *****  2006-04-06
          -  Display Trace For Database: 153  -  A15000M1

Pos  ID Description of Trace Point
177  3F LOGGING ROUTINE COMPLETED
178  90 STORAGE REQUEST - ENTERED
179  9F STORAGE REQUEST COMPLETE
180  30 LOGGING ROUTINE ENTERED
181  3F LOGGING ROUTINE COMPLETED
182  90 STORAGE REQUEST - ENTERED
183  9F STORAGE REQUEST COMPLETE
184  30 LOGGING ROUTINE ENTERED
185  3F LOGGING ROUTINE COMPLETED
186  90 STORAGE REQUEST - ENTERED
187  9F STORAGE REQUEST COMPLETE
188  30 LOGGING ROUTINE ENTERED
189  3F LOGGING ROUTINE COMPLETED
190  A0 USER LIST - REQUEST ENTERED
191  A1 USER LIST - BEGIN AT START
192  A3 USER LIST - PAGE OF USERS RETURNED OR END OF LIST

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



## 8 Server Restart

---

This option can be used to restart ADASAF in the specified nucleus. It results in the discarding of any cached security information, rereading security parameters, and restarting security operation. This option is useful if you need to change any security parameters without stopping and restarting the database.





# 9 System Parameters

This option can be used to display the system parameters in effect for this nucleus.

```
09:51:18   ***** A D A B A S   SAF SECURITY SERVICES 8.1.2 *****   2006-06-06
           - SAF System Configuration Parameters -                   A18000M1

Assembled: 06-06-06   Version: 08.01.02

Database: 153

  Authorization      Class/Type   Universal   Max Kept   SMF Log
ADABAS (Normal)     ADASEC      N           0           0
ADABAS (Xlevel)     XLVADA      N           0           0

Buffer(k): 8192     Message Level...: 3   Caching...: Y   Warn Mode: F
Ciphers...: N       Cached files...: 10   Xlevel...: 2   ET Data...: Y
Passwords: N        Max.Cipher/Pwds: 100  Logoff...: A   Remote...: POPUP
ABS.....: 2         DBID/Fnr format: 1   Notoken...: N  ADASCR...: N
PC prot...: N       Hold cmd access: R   LF prot...: Y   Filetab...: D153FTAB

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

The following information is provided:

| Field               | Description   |
|---------------------|---|
| Assembled / Version | The date and time when the parameter module was assembled.  |
| Database            | The database number.  |
| Authorization       | Indicates type of authorization (normal or cross-level).  |
| Class/Type          | The security class being used.<br>For more information, see the parameters DBCLASS and NWCLASS.   |
| Universal           | Whether or not universal access is allowed.   |
| Max Kept            | The number of files for which security information is to be cached for each user.<br>For more information, see the parameters DBNCU and NWNCU.                                  |
| SMF Log             | Not used.   |
| Buffer              | The amount of storage (in kilobytes) to be used for caching user information related to the security system.<br>For more information, see the parameter GWSIZE.                 |
| Message Level       | The tracing level for database security checks.<br>For more information, see the parameter GWMSG L.   |
| Caching             | Indicates whether or not caching of security information is in effect.  |
| Warn Mode           | Warn mode (warning or fail).  |
| Ciphers             | Indicates whether or not ADASAF should extract Adabas cipher codes from RACF and apply them to the relevant Adabas commands.<br>For more information, see the parameter CIPHER. |
| Cached Files        | The number of files for which security information is to be cached for each user.<br>For more information, see the parameter MAXFILES.  |
| Xlevel              | The type of database cross-level security checking to be performed<br>For more information, see the parameter XLEVEL.   |
| ET Data             | Indicates whether or not ADASAF should protect commands that access or create ET data.<br>For more information, see the parameter ETDATA.                                       |
| Passwords           | Indicates whether or not ADASAF should extract Adabas passwords from RACF and apply them to the relevant Adabas commands.<br>For more information, see the parameter PASSWORD.  |
| Max Cipher/Pwds     | The maximum number of passwords and cipher codes to be extracted from RACF for the current Adabas nucleus.<br>For more information, see the parameter MAXPCC.                   |
| Logoff              | Indicates when ADASAF should log off users from the SAF security system.<br>For more information, see the parameter LOGOFF.   |

| Field           | Description  |
|-----------------|--|
| Remote          | The mechanism ADASAF should use to protect calls from remote users.<br>For more information, see the parameter <code>REMOTE</code> .   |
| ABS             | The level of Adabas Basic Services protection.<br>For more information, see the parameter <code>ABS</code> .   |
| DBID/Fnr format | The format of the Database ID and file number in resource profiles.<br>For more information, see the parameter <code>DBFLEN</code> .   |
| Notoken         | Indicates whether or not calls from unsecured mainframe clients are to be allowed.<br>For more information, see the parameter <code>NOTOKEN</code> .   |
| ADASCR          | Indicates whether or not the SAF Userid or Group is used as the ADASCR password.<br>For more information, see the parameter <code>ADASCR</code> .  |
| PC prot         | Indicates whether or not PC commands are protected.<br>For more information, see the parameter <code>PCPROT</code> .   |
| Hold cmd access | Indicates whether access commands which place records on hold require read or update security access to the relevant resource.<br>For more information, see the parameter <code>HOLDCMD</code> .   |
| LF prot         | Indicates whether or not LF commands are protected.<br>For more information, see the parameter <code>LFPROT</code> .   |
| Filetab         | The name of the grouped resource name load module used by this nucleus, or '(none)' if grouped resource names are not in effect.<br>For more information, see the parameter <code>FILETAB</code> . |



# 10 About ADASAF Security Services

---

This option can be used to display an overview of Adabas SAF Security Services.

```
12:16:43   ***** A D A B A S   SAF SECURITY SERVICES 8.1.2 *****   2006-05-17
           - About Adabas SAF Security -                               A19000M1
```

Welcome to Adabas SAF Security

This Adabas option allows you to integrate Adabas with a central security repository such as RACF, CA-ACF2 or CA-TopSecret.

ADASAF provides all the safeguards you would expect for:

- \* Database nuclei
- \* Database files
- \* Database access/update commands
- \* Adabas utilities
- \* Console operator commands

In addition ADASAF provides:

- \* Optional consideration of the originating job as well as user, known as Cross-level Checking, allowing differentiation between a SAF user running production and that same SAF user running in development
- \* Protection of transaction data for ET, RE, OP and CL commands
- \* Storing of Adabas passwords and cipher codes in the security repository
- \* Adabas Fastpath compatibility and utility sensitivity

Press Enter or any PF Key to continue

