SAF Messages

This section contains a description of the SAF Security Kernel messages.

This document covers the following topics:

- Messages Displayed on the Operator Console and System Message Datasets

- Operator Command Messages

- Daemon Messages

Messages Displayed on the Operator Console and System Message Datasets

The following messages are displayed on the operator console and system message datasets. The messages may be issued by the SAF Security Kernel component (in a daemon, an Adabas nucleus or an Entire Net-Work node) or by another product into which SAF Security is installed, such as Natural or Entire Broker.

Overview of Messages

```
SEFM001 | SEFM002 | SEFM004 | SEFM006 | SEFM008 | SEFM009 | SEFM013 |
SEFM014 | SEFM015 | SEFM016 | SEFM017 | SEFM020 | SEFM021 | SEFM025 |
SEFM026 | SEFM028 | SEFM029 | SEFM030 | SEFM031 | SEFM049 | SEFM050 |
SEFM051 | SEFM255
```

SEFM001   ***SSSSSSSS : USER : RESOURCE**

Explanation   The security system determined *user* does not have authorization for *resource*. System return and reason codes are given in the hexadecimal string *SSSSSSSS*. This message is displayed when access has been denied to a particular resource.

SEFM002   ***XX TO REQUEST FF : USER : RESOURCE**

Explanation   An unexpected response code *XX* was received from the SAF Security Kernel for *user* when requesting function *FF* to be performed.

SEFM004   ***NATURAL PROGRAMS NOT EXTRACTED**

Explanation   The SAF Security Kernel was not able to extract a list of protected program objects from the security system on behalf of Natural users.

Action   Obtain a trace of SAF call RACROUTE EXTRACT from the security system and contact your Software AG technical support representative. ACF2 and Top Secret users should ensure that the protected programs have been extracted from the security system and supplied to the SAF Security Kernel via the SEFEXT DD statement in the daemon started task JCL.

SEFM006   ***ADARSP XX(XX) TO REQUEST FF : USER**

Explanation   The SAF Security Kernel returned Adabas response *XX* and subresponse *xx* to request *FF* for *user*.

Action   Ensure that the SAF Kernel started task is active. Check its output for error messages. Take the necessary remedial action indicated by the Adabas response code.

SEFM008   *** SAF SECURITY KERNEL (Vx.x.x - BUILD xxxx) STARTED**

Explanation   The SAF Security Kernel initialized successfully. *x.x.x* is the kernel version (for example 8.1.1) and *xxxx* is the kernel build number (for example 0001).

Action   Information message only.

SEFM009   ***MODULE MMMMMMMM NOT LOADED**

Explanation   The SAF Security Kernel could not load the stated module.

Action   Ensure that the module is in the steplib and the region size is sufficient.

SEFM013   *** LESS MEMORY ACQUIRED THAN SPECIFIED**

Explanation   The SAF Security Kernel was not able to allocate all the memory required to satisfy the buffer size specified in its parameters. Operation continues.

Action   Ensure region size is sufficient and parameters are appropriate.

SEFM014   *** NO MEMORY COULD BE ACQUIRED**

Explanation   The SAF Security Kernel could obtain no memory at system start-up. Operation has terminated.

Action   Ensure region size is sufficient and system parameters are appropriate.

SEFM015   ***LOGIC ERROR - XXXX FOR REQUEST FF : USER**

Explanation   The SAF Security Kernel suffered an internal error. A general restart is performed and the operation continues.

Action   Keep all information written to DDPRINT and contact your Software AG technical support representative.

SEFM016   ***SAF LOGOFF FAILED SSSSSSSS ACEE AAAA : USER**

Explanation   The SAF Security Kernel was unable to logoff *user* from the security system. The SAF error code is *SSSSSSSS*.

Action   Contact your Software AG technical support representative.

SEFM017   ***INSUFFICIENT SPACE TO INIZIALIZE - MAKE NATURAL BUFFER XX**

Explanation   The Natural SAF interface requires a larger value to be specidied for `IDSIZE` (Natural 3.1) or `NSFSIZE` (Natural 4.1 or above).

Action   Increase the Natural `IDSIZE` parameter or `NSFSIZE` if using Natural 4.1 or above.

SEFM020   ***GETMAIN FAILED / IDSIZE ERROR**

Explanation   The Natural SAF interface could not acquire storage from the designated IDMSBUF.

Action   Increase Natural region and/or thread size.

SEFM021   ***ILLEGAL STORAGE USE / RELOCATION PROBLEM**

Explanation   Internal problem in Natural SAF storage use.

Action   Contact your Software AG technical support representative.

SEFM025   ***NATURAL IDMSBUF PARAMETER IS NOT DEFINED**

Explanation   The Natural `IDSIZE` parameter has not been specified.

Action   Ensure `IDSIZE` (or `NSFSIZE` if using Natural 4.1 or above) is set correctly in the Natural parameters.

SEFM026   ***NATURAL PROTECTED PROGRAMS NOT EXTRACTED CODE: XX**

Explanation   The list of protected programs could not be returned from the SAF Security Kernel to Natural.

Action   Ensure the same copy of the configuration module SAFCFG is used by all system components. Check that the GWSTYP parameter defined in SAFI010 and STY parameter in SAFI020 are both correctly set for the installed security system and that all installation requirements have been met.

SEFM028   ***SYSTEM FILES NOT FOUND IN ENVIRONMENT TABLE**

Explanation   The current Natural system files were not matched in the table defining all possible system file sets.

Action   Ensure that the environment definitions in Natural Security are correct.

SEFM029   ***ERROR IN COMMUNICATIONS LAYER - CHECK INSTALLATION PROCEDURE**

Explanation   Possible reasons for error: Adabas link module installed into this component is not reentrant.

SEFM030   ***SQL TABLE / VIEW COULD NOT BE IDENTIFIED FOR FILE (XX,YY)**

Explanation   Interface could not identify table name for DBID/FNR of an SQL request.

Action   Ensure interface is correctly installed, then contact your Software AG technical support representative.

SEFM031   ***DBID / FNR IDENTIFIED WITH SQL REQUEST NOT RECOGNIZED XXXX**

Explanation   Interface component could not determine the DBID/FNR associated with this SQL request.

Action   Contact your Software AG technical support representative.

SEFM049   ***USER TYPE T NOT PERMITTED BY INSTALLED OPTIONS**

Explanation   The SAF Kernel will not permit user type *T* to operate using the currently installed options.

SEFM050   ***ERROR WRITING SMF RECORD : XX**

Explanation   The stated error occurred when an SMF record was being written.

SEFM051   ***SAFPRINT DATASET NOT DEFINED, DDPRINT WILL BE USED**

Explanation   `SAFPRINT=Y` is set in SAFCFG, but no SAFPRINT dataset is defined.

SEFM255   ***UNAUTHORIZED USE OF REQUEST**

Explanation   Attempted illegal use of security request.

Action   Contact your Software AG technical support representative.

Operator Command Messages

The following messages are displayed in response to operator commands being processed by the SAF
Security Kernel.

Overview of Messages

```
SEFM900 | SEFM901 | SEFM909 | SEFM910 | SEFM911 | SEFM913 | SEFM914 |
SEFM915 | SEFM916 | SEFM918 | SEFM919 | SEFM920 | SEFM921 | SEFM922 |
SEFM923 | SEFM924 | SEFM928 | SEFM929
```


SEFM900   *** OPERATOR ISSUED COMMAND : XXXXXXXX**

Explanation   SAF Security Kernel received the stated operator command.

Action   Information message only.

SEFM901   *** SAF SECURITY KERNEL - GENERAL STATISTICS (AT HHHHHHHH)**

Explanation
```
SEFM901 * SAF SECURITY KERNEL - SERVER STATISTICS (AT 12C47000)
SEFM902 * RESOURCE     CHECK(+VE) CHECH(-VE) CHECK SAVED OVERWRITES LEN
SEFM903 * APPLICATION      10          0         0          0     8
SEFM903 * DBMS CHECK        0          0         0          0    17
SEFM903 * SYSMAIN           0          0         0          0    21
SEFM903 * SYSTEM FILE       2          0         0          0    40
SEFM903 * PROGRAM           0          0         0          0    17
SEFM903 * BROKER            0          0         0          0    68
SEFM903 * NET-WORK          0          0         0          0    17
SEFM903 * SQL SERVER        0          0         0          0    32
SEFM904 * CACHED USERS:     1 HIGH WATERMARK:    1 MAX USERS: 5545
SEFM905 * OVERWRITES:       0 AUTHENTICATED:     0 DENIED:       0
```

Operator command for general statistics was issued. The address in the first line is the
address of the SAF Kernel's storage cache.

SEFM909   *** SAF SECURITY KERNEL - SHUTDOWN INITIATED**

Explanation   Operator issued command to shut-down the daemon started task. This message is also issued when a secure Adabas nucleus, Net-Work node or Adabas SQL server terminates.

SEFM910   ***SAF SECURITY KERNEL - LIST ALL ACTIVE USERS**

Explanation
```
SEFM910 * SAF GATEWAY - LIST ALL ACTIVE USERS
SEFM911 * USERID CHECK(+VE) CHECH(-VE) CHECK SAVED OVERWRITES BUFF
SEFM912 * K11079       3         0         0           0    0
```

Operator issued command to display list of currently active users.

SEFM911   ***USERID . . .**

Explanation
```
SEFM911 * SJU          CHECK(+VE) CHECH(-VE) CHECK SAVED OVERWRITES  BUFF
SEFM912 * APPLICATION      10         0          0           0     10
SEFM912 * DBMS CHECK        0         0          0           0      0
SEFM912 * SYSMAIN           0         0          0           0      0
SEFM912 * SYSTEM FILE       2         0          0           0      2
SEFM912 * PROGRAM           0         0          0           0      0
SEFM912 * BROKER            0         0          0           0      0
SEFM912 * NET-WORK          0         0          0           0      0
SEFM912 * SQL SERVER        0         0          0           0      0
```

Operator issued command to display statistics specific to a currently active user.

SEFM913   *** NO ACTIVE USERS FOUND IN SAF SECURITY KERNEL**

Explanation   No active users were found in SAF Security Kernel.

SEFM914   *** REQUESTED USER XXXXXXXX NOT FOUND IN SAF SECURITY KERNEL**

Explanation   The requested user was not found in the SAF Security Kernel.

SEFM915   **SEFM915 * SAF SECURITY KERNEL – SNAP OF SERVER MEMORY**

Explanation   This message is issued in response to an SSNAP operator command and is followed by a sequence of SEFM916 messages.

SEFM916   *** 129D2000 D5C1F2E2 C9C1F3F2 B79931B7 NA2SIA32.r..R.Y/**

Explanation   This message contains the results of an SSNAP command. Each SSNAP snaps up to
256 bytes and shows the address, the hexadecimal storage contents, and the
interpretation.

SEFM918   *** SUPPLIED ADDRESS IS OUTSIDE OF LEGAL RANGE**

Explanation   An attempt was made to snap storage outside the bounds of the SAF Kernel's cache.

SEFM919   ***OPERATOR COMMAND DID NOT CONTAIN REQUIRED ARGUMENTS**

Explanation   A required parameter was omitted from an operator command. For example, SUSTAT
with no userid specified.

SEFM920   **SSNAP, SSTAT, SUSERS, SUSTAT, SREST, SNEWCOPY, SLOGOFF, STRACE**

Explanation   This message is issued in response to an SHELP operator command and lists the valid
SAF Kernel operator commands.

SEFM921   *** MEMORY ALLOCATION FAILURE - USERS CANNOT BE LOGGED OFF**

Explanation   The SAF Kernel was unable to obtain temporary storage (approximately 16Kb) to log
users off in response to an SREST, SNEWCOPY or SLOGOFF operator command.

Action   Increase the region size.

SEFM922   *** USER XXXXXXXX LOGGED OFF**

Explanation   This message is issued in response to an SLOGOFF operator command. The indicated
user has been logged off from the security system.

SEFM923   *** USER XXXXXXXX NOT LOGGED OFF - USER NOT FOUND**

Explanation   This message is issued in response to an SLOGOFF operator command. The requested
user could not be found in the SAF Kernel's cache.

SEFM924   *** USER XXXXXXXX NOT LOGGED OFF - RETURN CODE ZZ**

Explanation   This message is issued in response to an SLOGOFF operator command. An internal
error (indicated by ZZ) occurred while attempting to log the reqeusted user off.

SEFM928   *** INVALID TRACE SETTING - MUST BE 0, 1, 2 OR 3**

Explanation   The STRACE operator command was issued with an invalid trace setting.

SEFM929   *** INVALID SAF SECURITY KERNEL OPERATOR COMMAND**

Explanation   An invalid SAF Security Kernel operator command was entered.

Daemon Messages

The following messages may be issued by the SAF Daemon.

Overview of Messages

```
SAF001I | SAF002I | SAFD01S | SAFD02S | SAFD03E | SAFD04I | SAFD05E |
SAFD06E | SAFD07E | SAFD08E | SAFD09I | SAFD10E | SAFD11I | SAFD12I |
SAFD13E | SAFD14I | SAFD15I | SAFD22E | SAFD25E | SAFD26E | SAFD30E |
SAFD31E | SAFD34E | SAFD40S | SAFD42S | SAFD43S
```

SAF001I   **Unable to load required module:** *xxxxxx*

Explanation   The SAF kernel or one of the modules it needs could not be loaded. Ensure that all SAF modules (including those created by installation assembly jobs – SAFCFG, SAFPSEC and SAFPMAC) are available.

SAF002I   **Unable to obtain anchor storage**

Explanation   A memory allocation failed during initialization. Increase the region size.

SAFD01S   **SAF CANNOT INITIALISE, GETMAIN ERROR**

Explanation   There is insufficient memory for the SAF daemon to initialize. Increase the region size.

SAFD02S   **SAF CANNOT INITIALISE, KERNEL LOAD ERROR**

Explanation   Installation error (SAFCKN load module not available). Ensure that all required load modules are available.

SAFD03E   **DDCARD open error: ## - terminating**

Explanation   The SAF daemon was enable to open DDCARD. Ensure that the DDCARD DD statement is specified correctly.

SAFD04I   **Input parameter:** *xxx*

Explanation   The daemon echoes the values of the supplied DDCARD parameters.

SAFD05E   **Invalid parameter:** *###########*

Explanation   DDCARD contained an invalid parameter. The SAF daemon terminates. Correct the parameter in error.

SAFD06E   **Product parameter not specified**

Explanation   DDCARD did not contain `PRODUCT=SAF`. Ensure that `PRODUCT=SAF` and `DEFAULT=SAF` are both specified.

SAFD07E   **MPM failure - function: ## error ##**

Explanation   The SAF daemon received an error from ADAMPM. This message will usually be preceded by an explanatory message. If in doubt, contact your Software AG technical support representative for assistance.

SAFD08E   **IOR failure - function: ## error ##**

Explanation   An error occurred during an ADAIOR service call. Contact your Software AG technical support representative for assistance.

SAFD09I   **Shutdown requested**

Explanation   The SAF daemon has been instructed to shut down.

SAFD10E   **Getmain for command queue failed**

Explanation   The SAF daemon failed to allocate its command queue. Increase the region size.

SAFD11I   **SAF Kernel is active on node** *nnnnn sss* **CIB=***aaaaaaaa*

Explanation   The daemon is now active and ready to receive security requests; nnnnn is the node ID, sss is the SVC number, and aaaaaaaa is the address of the daemon's main storage area.

SAFD12I   **Oper type in: SAF** *xxxxx*

Explanation   Message 12I is issued before processing of an operator command.

SAFD13E	**Invalid operator command**
Explanation	An invalid operator command was entered.

SAFD14I	**Target *nnnnn* termination in progress**
Explanation	Message 14I is issued during daemon termination (nnnnn is the daemon's node ID).

SAFD15I	**Target *nnnnn* ended normally**
Explanation	Message 15I is issued during daemon termination (nnnnn is the daemon's node ID).

SAFD22E	**Load for module: ######## failed**
Explanation	The indicated module could not be loaded. Ensure that it is available.

SAFD25E	***###* is an invalid product name**
Explanation	An invalid `PRODUCT=` `parameter` was specified in DDCARD.

SAFD26E	**Proxy module SAFPXY was not found, product SAF will not be called**
Explanation	Ensure that SAFPXY and all other required load modules are available.

SAFD30E	**Getmain for product parm block failed**
Explanation	A memory allocation failed during initialization. Increase the region size.

SAFD31E	**Cab allocation error in module syscoru**
Explanation	A memory allocation failed during initialization. Increase the region size.

SAFD34E	**UAB allocation error in module syscoru**
Explanation	A memory allocation failed during initialization. Increase the region size.

SAFD40S   **Abend** *code* **Psw** *pppppppp pppppppp*

Explanation   Message 40S is issued during abnormal termination. It shows the abend code, Program
                   Status Word, module that abended and register contents.

                   In the event of an abend, please ensure you collect the messages, the dump and any
                   trace messages or snaps that have been generated.

SAFD42S   **Module** *module* **entry** *entry-point* **offset** *offset*

Explanation   Message 42S is issued during abnormal termination. It shows the abend code, Program
                   Status Word, module that abended and register contents.

                   In the event of an abend, please ensure you collect the message, the dump and any trace
                   messages or snaps that have been generated.

SAFD43S   **Regs 00-03** *register contents*
                   Regs 04-07 *register contents*
                   Regs 08-11 *register contents*
                   Regs 12-15 *register contents*

Explanation   Message 43S is issued during abnormal termination. It shows the abend code, Program
                   Status Word, module that abended and register contents.

                   In the event of an abend, please ensure you collect the message, the dump and any trace
                   messages or snaps that have been generated.