Adabas Online System

Reference Guide

Version 8.5.4

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ADABAS & NATURAL

This document applies to Adabas Online System Version 8.5.4 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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Table of Contents

Preface

This document provides reference information for Adabas Online System (AOS), including information on AOS Basic Services direct commands and Adabas ADARUN parameters.

This document describes is organized in the following topics:

Basic Services Direct Commands
ADARUN Parameter Reference
Natural Security AOS Error Messages

1 Conventions

Throughout this document, the terms "Adabas Online System" and "AOS" are used interchangeably.

Data set names starting with DD are referred to in Adabas Online System Documentation with a slash separating the DD from the remainder of the data set name to accommodate z/VSE data set names that do not contain the DD prefix. The slash is not part of the data set name.

A product version is identified by the first two digits of the versioning number. Software AG distinguishes between major and minor versions according to the amount of functionality or technology added to the product. All other digits indicate correction levels.

In the product documentation, the notations *vrs*, *vr*, or simply *v* are often used as placeholders for the current product version, for example, in data set or module names.

Placeholder	Meaning	Definition
v	version	**Major Version** The first digit of the product version number indicates major architecture and functionality implementation or enhancement that adds value to the product.
r	release	**Minor Version** The second digit of the version number indicates new or enhanced functionality that adds value to the product.
s	system maintenance level	**Correction Level** Correction levels contain error corrections only, without new functionality, including documentation of all modifications and repairs. In case it is necessary to include functional changes into a correction level, an exception handling process ensures that corresponding quality assurance activities are triggered. These functional changes are documented. The main goal is to avoid impacts when you install such a correction level. The third number of an Adabas version denotes the system maintenance level.

Placeholder	Meaning	Definition
		On certain platforms supported by Adabas, additional levels may exist, such as update package, patch level, service pack and hot fix.

2 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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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.

3 Basic Services Direct Commands

Note: AOS Security functions cannot be executed with direct commands, nor can direct commands be issued from AOS Security panels and menus.

The Adabas Online System provides direct commands for performing most of the functions performed by the menus. This makes it possible to execute virtually any menu function without having to exit from your current function. The direct commands for each service can be entered only from within that service.

After a function invoked by a direct command has been executed, the menu from which it can be invoked by a normal function code is displayed with either an error message or a message indicating successful execution.

In all but one case, the direct command syntax includes the command keyword followed by a keyword specifying the type of command operation. The exception, the REOPEN command, omits the second keyword.

The second keyword is in many cases followed by one or more variables that must be replaced with appropriate values; there are no defaults. For example, the Basic Services direct command to uncouple files 1 and 8 is:

```
UNCOUPLE FILES 1 8
```

where the variable *file-number-1* has been replaced by the value "1" and the variable *file-number-2* has been replaced by the value "8".

All direct commands can be abbreviated, but abbreviations must be unique. Recommended abbreviations are shown underlined in uppercase. For example, the previous Basic Services uncouple files command can also be entered as:

```
UNC FIL 1 8
```

The full name of the command is included for clarity but need not be entered as part of the command.

The following table lists the Adabas Online System Basic Services direct commands:

Command	Secondary Keyword	Variables
ADd	ASso DAta FIEld	*file-number*
ALlocate	FILE SPace	*file-number* *file-number*
CALCulate	ASso DAta DDfilea SOrt TEmp WoRK	--
CATch	RSP-code (and subcode)	--
CHange	FIEld PRIority PROfile	*file-number field-name* *user-id*
DEAlocate	FILE SPace	*file-number* *file-number*
DECrease	ASso DAta	--
DEFine	FDt FILE SDt	*file-number* *file-number*
DELete	CHeckpoints ETid FILE	*file-number*

Command	Secondary Keyword	Variables
DIsplay	ADainfo CHeckpoints CLUsterstatus CMdusage CQ (Command Queue) CRITFiles DB-layout DIb ETid FDt FILE FILEs FILUsage HQ (Hold Queue) HWM (High-Water Mark) IDt LWpusage PARAmeters PARMs PLOGSTatus PROCess RAbn SYstemstatus THreadusage UNused UQ (User Queue) VOlsertab WOrkstatus	*file-number* *file-number* *file-number*
FOrce	CLOgswitch PLOGSWitch	--
INCrease	AS so DA ta	--
LOck	FILE FILEs	*file-number*
MANage	PROCess	
MOdify	FILE PARAmeters PARMs	*file-number*
ONLine	INVert REORder	*file-number* *file-number*
REAd	STATistics	--
RECover	SPace	--
REFresh	FILE	*file-number*
RELease	DEScriptor	*file-number descriptor-name*

Command	Secondary Keyword	Variables
RENAme	FILE	*file-number*
RENUmber	FILE	*file-number*
REOpen	--	*database-id*
RESEt	DIb ONLstatus UTility-abend	*online-dump-status*
REUse	DAta ISns	*file-number* *file-number*
STArt	STATistics	--
STOp	USers	--
TErminate	SEssion	--
UNCouple	FILEs	*file-number-1 file-number-2*
UNLock	FILE	*file-number*

4 ADARUN Parameter Reference

Parameter	Use to	Values	Default
AOslog	Log to DDPRINT the commands issued by ADADBS OPERCOM or equivalent AOS functions that modify the active nucleus.	YES | NO	NO
ARExclude	Exclude file(s) from autorestart.	1 - 5000	—
ARMname	Specify the automatic restart management (ARM) program name.	*arm-pgm-name*	—
ARNworkbuffers	Specify the number of WORK I/O buffers allocated during autorestart processing after a failure.	0 - 2147483647	varies based o ADARUN V6 parameter set
ASSOCache	Activate or deactivate controller caching for the Associator component.	YES | NO	YES
ASSOSpacewarn	Identify up to three pairs of threshold percentages and percentage change increments, expressed as percentages of the total ASSO portion of the database. When ASSO space use reaches a specified threshold percentage, a space usage message is issued. In addition, when the ASSO space use changes by the increment specified for that threshold, additional space usage messages are issued.	0-100,1-99	0,5
ASYtvs	Flush buffers asynchronously based on volume serial number.	YES | NO	YES
AUDITLOG	Specify whether auditing data of utility and AOS functions should be activated.	CONSOLE | NO	NO
AUTOCQEnv	Identify the type of user affected by the AUTOCQTIME parameter setting. Only commands from users in the specified environment will be returned from the command queue if they meet the AUTOCQTIME criteria.	ALL | CICS	ALL

Parameter	Use to	Values	Default
AUTOCQTime	Specify the timeout period, in seconds, after which an eligible unprocessed command in the command queue during online recovery will be returned to the user with response code 22 (ADARSP022), subcode 55.	0 (zero) | 1 - 86400	0
AUTOINCASSOSize	Specifies the size, in cylinders or blocks, by which the highest-numbered (last-defined) Associator (ASSO) data set will be increased by an automatic database increase process.	0 - 2147483647 (cylinders) 0B - 2147483647B (blocks)	0
AUTOINCASSOTHreshold	Specifies the Associator space threshold at which Adabas automatically initiates a database increase process. This threshold is expressed as a percentage of used Associator space to total Associator space available in the database.	0, 50 - 100	0
AUTOINCASSOTOtal	Specifies the maximum total size, in cylinders or blocks, of the entire Associator space of the database that is not to be exceeded by automatic database increase processes.	0 - 2147483647 (cylinders) 0B - 2147483647B (blocks)	0
AUTOINCDATASize	Specifies the size, in cylinders or blocks, by which the highest-numbered (last-defined) Data Storage (DATA) data set will be increased by an automatic database increase process.	0 - 2147483647 (cylinders) 0B - 2147483647B (blocks)	0
AUTOINCDATATHreshold	Specifies the Data Storage space threshold at which Adabas automatically initiates a database increase process. This threshold is expressed as a percentage of used Data Storage space to total Data Storage space available in the database.	0, 50 - 100	0
AUTOINCDATATOtal	Specifies the maximum total size, in cylinders or blocks, of the entire Data Storage space of the database that is not to be exceeded by automatic database increase processes.	0 - 2147483647 (cylinders) 0B- 2147483647B (blocks)	0
CACHe	Load ADACSH (Adabas Caching Facility control) during Adabas session initialization.	YES | NO	NO
CACTivate	Control RABN activation. (Adabas Caching Facility)	YES | NO	NO
CASSODsp	Cache an Associator RABN or RABN range in the data space cache. This parameter is mutually exclusive with the CFILE and CXFILE parameters. (Adabas Caching Facility)	*rabn* | *rabn1* - *rabnx*	—
CASSOExt	Cache an Associator RABN or RABN range in the extended memory cache. This parameter is mutually exclusive with the CFILE and CXFILE parameters. (Adabas Caching Facility)	*rabn* | *rabn1* - *rabnx*	—

Parameter	Use to	Values	Default
CASSOG64	Cache an Associator RABN or RABN range backed by 2G large pages in the virtual 64-bit storage cache. This parameter is mutually exclusive with the CFILE and CXFILE parameters. This parameter is available only in z/OS environments.	*rabn* | *rabn1* - *rabnx*	---
CASSOHsp	Cache an Associator RABN or RABN range in the hiperspace cache. This parameter is mutually exclusive with the CFILE and CXFILE parameters. (Adabas Caching Facility)	*rabn* | *rabn1* - *rabnx*	---
CASSOL64	Cache an Associator RABN or RABN range backed by 1M large pages in the virtual 64-bit storage cache. This parameter is mutually exclusive with the CFILE and CXFILE parameters. This parameter is available only in z/OS environments.	*rabn* | *rabn1* - *rabnx*	---
CASSOV64	Cache an Associator RABN or RABN range in the virtual 64-bit storage cache. This parameter is mutually exclusive with the CFILE and CXFILE parameters. (Adabas Caching Facility)	*rabn* | *rabn1* - *rabnx*	---
CASSOMaxs	Specify the unit size in which areas are allocated for Associator cache space. (Adabas Caching Facility)	80K - 2047M (extended memory, data spaces, or hiperspaces) 1M - your installation limit (virtual 64 memory)	1M (extended data spaces, c hiperspaces) 1M (virtual 6 memory)
CBufno	Specify the number of read-ahead buffers for concurrent I/O processing. (Adabas Caching Facility)	0 - the NT parameter value	0
CCtimeout	Specify the cache space area inactivity time limit (in seconds) before it is released back to the system. If demand caching is in effect, use this parameter to specify the inactivity time limit (in seconds) of a RABN range, file or file range, before it is disabled. (Adabas Caching Facility)	60 - 2147483647	7200 seconds
CDATADsp	Cache a Data Storage RABN or RABN range in the data space cache. This parameter is mutually exclusive with the CFILE and CXFILE parameters. (Adabas Caching Facility)	*rabn* | *rabn1* - *rabnx*	---
CDATAExt	Cache a Data Storage RABN or RABN range in the extended memory cache. This parameter is mutually exclusive with the CFILE and CXFILE parameters. (Adabas Caching Facility)	*rabn* | *rabn1* - *rabnx*	---

Parameter	Use to	Values	Default
CDATAG64	Cache a Data Storage RABN or RABN range backed by 2G large pages in the virtual 64-bit storage cache. This parameter is mutually exclusive with the CFILE and CXFILE parameters. (Adabas Caching Facility)	*rabn* | *rabn1* - *rabnx*	---
CDATAHsp	Cache a Data Storage RABN or RABN range in the hiperspace cache. This parameter is mutually exclusive with the CFILE and CXFILE parameters. (Adabas Caching Facility)	*rabn* | *rabn1* - *rabnx*	---
CDATAL64	Cache a Data Storage RABN or RABN range backed by 1M large pages in the virtual 64-bit storage cache. This parameter is mutually exclusive with the CFILE and CXFILE parameters. (Adabas Caching Facility)	*rabn* | *rabn1* - *rabnx*	---
CDATAV64	Cache a Data Storage RABN or RABN range in the virtual 64-bit storage cache. This parameter is mutually exclusive with the CFILE and CXFILE parameters. (Adabas Caching Facility)	*rabn* | *rabn1* - *rabnx*	---
CDATAMaxs	Specify the unit size in which areas are allocated for Data Storage cache space. (Adabas Caching Facility)	80K - 2047M (extended memory, data spaces, or hiperspaces) 1M - your installation limit (virtual 64 memory)	1M (extended memory data spaces, or hiperspaces) 1M (virtual 64 memory)
CDEmand	Set the lowest Adabas buffer efficiency level accepted before caching is activated. A value of "0" indicates that no demand-level caching occurs. (Adabas Caching Facility)	0 - 2147483647	0
CDIspstat	Control whether RABN range statistics display on both the operator console and DDPRINT, or only on DDPRINT. (Adabas Caching Facility)	YES (display on both) | NO (display only on DDPRINT)	YES
CDX*nn*	Specify the user routine of collation descriptor user exits. The *nn* in the parameter name can range from 01 through 08, so up to eight collation descriptor exits may be specified (in any order).	user routine name (up to 8 characters)	---
CExclude	Identify command types that should be excluded from read-ahead caching. More than one command type may be specified by separating values with forward slashes (/).	PHYS | LOGI | HIST | FIND	---

Parameter	Use to	Values	Default
	(Adabas Caching Facility)		
CFile	Select a file or range of files to be cached. This parameter is also used to indicate the class of caching service, the caching scope, and the cache storage type that should be implemented for the file or file range. Specify this parameter using the following syntax: `CFILE=({fnr ↩ | fnr1-fnrx}[,class][,scope][,cachetype])` where: ■ *fnr*, *fnr1*, *fnrx*: valid file numbers. When a range is specified, the lower file number must be specified first (*fnr1*). ■ *class*: The percentage of cache space that can be used, which effectively assigns a priority to the files, with lower priority RABNs being purged first. A value of 1 indicates the highest priority, 5 indicates the lowest priority. ■ *scope*: Identifies the type of caching used: Associator (A), Data Storage (D), or both (B). ■ *cachetype*: Identifies the cache storage type used: data space (D), extended (E), 2G large pages in virtual 64-bit storage (G), hiperspace (H), 1M large pages in virtual 64-bit storage (L), or virtual 64-bit storage (V). This parameter is mutually exclusive with the CASSO*xxx*, CDATA*xxx* and CSTORAGE parameters. (Adabas Caching Facility)	*fnr*, *fnr1*, *fnrx*: 0 - n *class*: 1 | 2 | 3 | 4 | 5 *scope*: A | D | B *cachetype*: D | E | G | H | L | V	*fnr*, *fnr1*, *fr* *class*: 3 *scope*: B *cachetype*: D
CLOGBmax	Specify the maximum size (bytes) of a logged buffer.	368 - 2147483647	4096
CLOGDev	Specify the device type used for multiple command log data sets. This parameter must be specified with the CLOGSIZE parameter.	Valid device types are listed in *Adabas Device Types and Block Sizes*.	value of the D parameter
CLOGLayout	Specify the format of the Adabas command log.	8	8
CLOGMAx	Specify the maximum size (bytes) of all of the logged buffers allowed for an Adabas command.	368 - 2147483647	16384
CLOGMRg	Indicate whether the Adabas cluster should run with an automatic CLOG merge. (Adabas Cluster Services, Adabas Parallel Services)	YES | NO	NO
CLOGSize	Specify the number of blocks available for each command log in multiple command log data sets. This	16 - 16777215	---

Parameter	Use to	Values	Default
	parameter must be specified with the CLOGDEV parameter.		
CLUCACHEExtra	Specify the additional vector size, in blocks, required to allow Adabas Cluster Services and Adabas Parallel Services to track the blocks held by Adabas Caching Facility in the different cluster nuclei. (Adabas Cluster Services, Adabas Parallel Services)	0 - 2147483647	1000
CLUCACHEName	Identifies the name of the Adabas cluster cache structure/area in which the current nucleus participates. (Adabas Cluster Services)	*cluster-name*	---
CLUCACHESize	Specify the amount of storage to allocate for the global cache area that services the Adabas Parallel Services cluster in which the current nucleus participates. (Adabas Parallel Services)	128K - varies (depending on the cache type specified by the CLUCACHETYPE parameter)	---
CLUCACHEType	Identify the virtual storage type for the global cache area: shared dataspace (DSP), virtual 64-bit storage (V64), virtual 64-bit cache backed by page-fixed two-gigabyte (2G) large pages (G64), or virtual 64-bit cache backed by page-fixed one-megabyte (1M) large pages (L64). (Adabas Parallel Services)	DSP | G64 | L64 | V64	DSP
CLUCACHEUnchanged	Indicate whether unchanged blocks are written to global cache during Adabas Parallel Services processing. (Adabas Parallel Services)	YES | NO	NO
CLUGroupname	Specify the XCF messaging group name in Adabas Cluster Services or the name of the messaging group in Adabas Parallel Services. (Adabas Cluster Services, Adabas Parallel Services)	*groupname*	none in Adabas Cluste Services; the router name in Adabas Parallel Services
CLULOCKName	Specify the lock structure name defined in the CFRM policy or the global lock area in which the current nucleus participates. (Adabas Cluster Services)	*lockstructurename*	---
CLULOCKSize	Specify the amount of storage allocated for the global lock area. Specify values for this parameter using the following syntax: *nnn*[K | M | G]	131072 - 2147483147 (bytes) 128K - 2097152K 128K - 2048M	---

Parameter	Use to	Values	Default
	where *nnn*: the number of bytes (no unit specification), kilobyte (K), megabytes (M), or gigabytes (G). (Adabas Parallel Services)	128K - 2G	
CLUPublprot	Specify whether or not cluster nuclei make their protection data available within the cluster before they make the related updates available to the other nuclei. (Adabas Cluster Services, Adabas Parallel Services)	YES | NO	NO
CLUSter	Indicate whether the Adabas nucleus will participate in a cluster of nuclei working on the same database, and, if so, the type of cluster in which it will participate. Valid values are "NO" (nucleus not participating in a cluster), "LOCAL" (nucleus participating in a cluster on the same operating system image), and "SYSPLEX" (nucleus participating in a cluster on different systems in a parallel sysplex). (Adabas Cluster Services, Adabas Parallel Services)	NO | LOCAL | SYSPLEX	NO
CLUWork1cache	Specify the maximum number of WORK blocks that the cluster nucleus should keep in the global cache at a time.	0 - 32767	0
CMAXcsps	Specify the number of storage areas that can be allocated for ADACSH cache space in data spaces, hiperspaces, or virtual 64-bit storage. This parameter has no affect on a cache space in extended memory, where only one Associator and one Data Storage area are allowed. (Adabas Caching Facility)	1 - 16	8
CRetry	Specify the number of seconds between Adabas Caching Facility attempts to acquire an area of cache space if the previous GETMAIN or space allocation failed. (Adabas Caching Facility)	60 - 2147483647	900 (15 minut
CStorage	Identify the type of cache space to which all RABNs for the database are cached (using system defaults). This parameter overrides the use of the CASSO*xxx* and CDATA*xxx* ADARUN parameters. Valid values are "DATASPACE" (dataspace), "EXTENDED" (extended memory), "HIPERSPACE" (hiperspace), "G64" (2G large pages in virtual 64-bit storage), "L64" (1M large pages in virtual 64-bit storage), or "VIRTUAL64" (virtual 64-bit storage).	DATASPACE | EXTENDED | G64 | HIPERSPACE | L64 | VIRTUAL64	---

Parameter	Use to	Values	Default
	This parameter is mutually exclusive with the CFILE and CXFILE parameters. (Adabas Caching Facility)		
CT	Specify the maximum time limit (in seconds) for interregion communication of results from Adabas to the user.	1 - 2147483647	60
CWORKStorage	Identify the type of cache space used for Adabas Caching Facility work areas CWORK2FAC and CWORK3FAC. Valid values are "DATASPACE" (dataspace), "EXTENDED" (extended memory), "G64" (2G large pages in virtual 64-bit storage), "HIPERSPACE" (hiperspace), "L64" (1M large pages in virtual 64-bit storage), or "VIRTUAL64" (virtual 64-bit storage). (Adabas Caching Facility)	DATASPACE | EXTENDED | G64 | HIPERSPACE | L64 | VIRTUAL64	---
CWORK2fac	Specify the percentage of Work part 2 to be cached. If "0" is specified, Work part 2 is not cached. (Adabas Caching Facility)	0 - 100	0
CWORK3fac	Specify the percentage of Work part 3 to be cached. If "0" is specified, Work part 3 is not cached. (Adabas Caching Facility)	0 - 100	0
CXfile	Select a file or range of files to be excluded from caching. Specify this parameter using the following syntax: `CXFILE=({fnr | fnr1-fnrx}[,,scope])` where: ■ *fnr*, *fnr1*, *fnrx*: valid file numbers to be excluded. When a range is specified, the lower file number must be specified first (*fnr1*). ■ *scope*: Identifies the scope of exclusion: Associator RABNs only excluded (A), Data Storage RABNs only excluded (D), or both types of RABNs excluded (B). If a scope is specified, you must specify two commas before it. This parameter is mutually exclusive with the CASSO*xxx*, CDATA*xxx*, and CSTORAGE ADARUN parameters. (Adabas Caching Facility)	*fnr*, *fnr1*, *fnrx*: 0 - n *scope*: A | D | B	*fnr*, *fnr1*, *fnrx*: --- *scope*: B

Parameter	Use to	Values	Default
DATACache	Control whether caching control is enabled (YES) or disabled (NO) for the Data Storage data set.	YES | NO	YES
DATASpacewarn	Identify up to three pairs of threshold percentages and percentage change increments, expressed as percentages of the total Data Storage portion of the database. When Data Storage space use reaches a specified threshold percentage, a space usage message is issued. In addition, when the Data Storage space use changes by the increment specified for that threshold, additional space usage messages are issued.	0-100,1-99	0,5
DBid	Specify the physical database ID of the database. **Note:** If you specify the DBID parameter, you must also specify the ADARUN SVC parameter.	1 - 65535	1
DEVIce	Specify the device type on which the first block of the Associator is stored. Valid device types for each platform are listed in *Adabas Device Types and Blocks Sizes*.	*devtype*	3390
DIrratio	Together with the ELEMENTRATIO ADARUN parameter, define the ratio of directory entries to data elements in Adabas cluster environments. (Adabas Cluster Services, Adabas Parallel Services)	1 - 32767	1
DSF	Enable Adabas Delta Save support. (Adabas Delta Save)	YES | NO	NO
DSFEx1	Specify the user routine to be given control by Adabas Delta Save. (Adabas Delta Save)	*exitname*	---
DTp	Indicate whether to enable distributed transaction processing, and, if so, whether the nucleus should be a resource or transaction manager. Valid values are NO (distributed transaction processing is not enabled), RM (the nucleus participates in distributed transaction processing as a resource manager), and TM (the nucleus participates in distributed transaction processing as a transaction manager). (Adabas Transaction Manager)	NO | RM | TM	NO
DUALCLD	Specify the device type to be used for dual command logging. Valid device types for each platform are listed in *Adabas Device Types and Blocks Sizes*.	*devtype*	value of the D parameter
DUALCLS	Specify the number of blocks available for each dual command log.	16 - 16777215	---

Parameter	Use to	Values	Default
DUALPLD	Specify the device type to be used for dual protection logging. Valid device types for each platform are listed in *Adabas Device Types and Blocks Sizes*.	*devtype*	value of the DEVICE parameter
DUALPLS	Specify the number of blocks available for each dual protection log.	16 - 16777215	---
ELementratio	Together with DIRRATIO ADARUN parameter, define the ratio of directory entries to data elements in Adabas cluster environments. Adabas Cluster Services, Adabas Parallel Services	1 - 32767	1
EXcpvr	Indicate whether EXCP or EXCPVR should be used when running APF-authorized.	YES | NO	YES
FAstpath	Enable Adabas Fastpath support. (Adabas Fastpath)	YES | NO	NO
FMxio	Set a limit on the number of I/O operations that can be started in parallel by LFIOP flush processing. The full meaning of this parameter varies, depending on the setting of the ASYTVS ADARUN parameter. If ASYTVS=YES, you can use FMXIO to set the limit on the number of I/O ■ If ASYTVS=YES, you can use FMXIO to set a limit on the number of I/O operations to be started in parallel on each volume. ■ If ASYTVS=NO, you can use FMXIO to set a limit on the number of I/O operations to be started in parallel overall.	1 - 16 (ASYTVS=YES) 1 - 100 (ASYTVS=NO)	1 (ASYTVS=YES) 60 (ASYTVS=NO)
FOrce	Indicate whether the nucleus or Adabas Review hub can overwrite an existing ID table entry.	YES | NO	NO
HEX*nn*	Specify the hyperdescriptor exit(s) and associated user routine to be used by the nucleus. Specify this parameter using the following syntax: `HEXnn=user-routine-name` where: ■ *nn*: the number of the hyperdescriptor exit ■ *user-routine-name*: the name (up to eight characters) of the user routine that gets control for the associated hyperdescriptor exit.	■ *nn*: 01 - 31 ■ *user-routine-name*: text (up to eight characters)	■ *nn*: --- ■ *user-routine-name*: ---
IGNDIb	Indicate whether an active nucleus entry in the data integrity block (DIB) should be ignored and deleted.	YES | NO	NO

Parameter	Use to	Values	Default
IGNDTp	Indicate whether the two-phase commit area (Work part 4) should be ignored.	YES | NO	NO
INDEXCrosscheck	Indicate whether index cross-checking is turned on or off. Index cross-checking is a process Adabas uses to ensure that a data storage record it is reading actually matches the descriptor value in the index by which the record was found.	YES | NO	YES
INDEXUpdate	Indicate whether to use the original or advanced index update processing rules.	ORIGINAL | ADVANCED	ORIGINAL
INFobuffersize	Specify the size of the information buffer pool, in bytes. The information buffer pool is also known as the Adabas event log.	0 or 1024 - 2147483647	0 (buffer will allocated)
INTAuto	Specify the time interval (in seconds) between autorestart progress messages, which will be printed in addition to the standard messages at the end of each autorestart phase, if the phase takes longer than the interval specified. The default (0 seconds) indicates that autorestart progress messages should only be printed at the completion of each autorestart phase.	0 - 2147483647	0
INTNas	Specify the time interval (in units of 1.048576 seconds) between SYNS 60 checkpoints.	1 - 2147483647	3600 (approxi one hour)
LARgepage	Indicate whether the Adabas nucleus should use page-fixed one-megabyte (1M) large pages above the two-gigabyte (2G) bar (L64) or page-fixed 2G large pages above the 2G bar (G64). A value of "YES" is equivalent to specifying "L64". A value of "NO" indicates that virtual storage above the 2G bar will be backed by four-kilobyte (4K) pages. Values of "G64", "L64", and "YES" can only be specified if the ADARUN V64BIT parameter is also set to "YES". In addition, the operating system must support large pages of the required type.	G64 | L64 | NO | YES	NO
LBP	Specify the maximum number of bytes to be used for the Adabas buffer pool during a session.	80000 - 2147483647	350000
LCP	Specify the maximum number of bytes to be used for the Adabas security pool during a session.	2000 - 2147483647	10000
LDEuqp	Specify the number of bytes to be used for the unique (UQ) descriptor pool during a session.	5000 - 2147483647	5000
LDTp	Define the length of the distributed transaction processing area (Work part 4) or the index of Work part 4: If you have Adabas Transaction Manager Version 7.4 or earlier installed, this parameter defines the length	Adabas Transaction Manager 7.4 or earlier: 0 - 65535 Adabas Transaction Manager 7.5 or later: 8	Adabas Trans Manager 7.4 o 0 Adabas Trans Manager 7.5 o

Parameter	Use to	Values	Default
	of the distributed transaction processing area (Work part 4) for use with DTP=RM. If you have Adabas Transaction Manager Version 7.5 or later installed, this parameter defines the size (in blocks) of the Work part 4 index which is used to administer the data on Work part 4 (DDWORKR4). (Adabas Transaction Manager)	- one eighth of the WORK4 size	
LFIop	Enable asynchronous buffer flush operations and define the length of the related buffer flush pool. A value of "0" disables asynchronous buffer flush operations; only synchronous flushing occurs. A value of "1" enables asynchronous buffer flush operations, and defines the buffer pool size as 25% of the buffer pool (LBP parameter) size. Any other value (with a minimum of 80000 allowed) enables asynchronous buffer flush operations and defines the size of the pool directly (in bytes).	0 | 1 | 80000 - 18446744073709551615 (although this is really limited by the available amount of virtual and real memory)	0
LFP	Specify the size (in bytes) of the Adabas internal format buffer pool.	6000 - 2147483647	12000
LI	Specify the size (in bytes) allocated for the table of ISNs (TBI) used to store ISN lists (overflow ISNs or saved ISN lists).	2000 - 2147483647	10000
LNKGNAME	The name of the link globals table to be employed by an Adabas 8 batch/TSO link routine. **Note:** If you specify the LNKGNAME parameter, you must also specify the ADARUN DBID and SVC parameters.	valid module name for an IBM z/OS operating system	LNKGBLS
LOCal	Indicate whether an Adabas nucleus or Adabas Review hub is isolated and available for local use only. The isolated nucleus or hub will be unknown to the network.	YES | NO	YES
LOGAbdx	Indicate whether Adabas buffer descriptions (ABDs) should be logged during this session. For the dependencies of the various logging parameters, please review the detailed description.	YES | NO	NO
LOGCB	Indicate whether Adabas extended control blocks (ACBX) should be logged during this Adabas session. For the dependencies of the various logging parameters, please review the detailed description.	YES | NO	NO
LOGCLex	Indicate whether the Adabas command log extension (CLEX) should be logged. For the dependencies of the various logging parameters, please review the detailed description.	YES | NO	NO

Parameter	Use to	Values	Default
LOGFb	Indicate whether Adabas format buffers (FB) should be logged.	YES | NO	NO
LOGGing	Indicate whether command logging should be used for the Adabas session. If this is set to "NO", all other LOG*xxxx* parameters are ignored.	YES | NO	NO
LOGIB	Indicate whether Adabas ISN buffers (IB) should be logged.	YES | NO	NO
LOGIO	Indicate whether Adabas I/O activity should be logged.	YES | NO	NO
LOGMb	Indicate whether Adabas multifetch buffers (MB) should be logged. For the dependencies of the various logging parameters, please review the detailed description.	YES | NO	NO
LOGRb	Indicate whether Adabas record buffers (RB) should be logged.	YES | NO	NO
LOGSB	Indicate whether Adabas search buffers (SB) should be logged.	YES | NO	NO
LOGSIze	Specify the maximum block size for the sequential command log.	100 - 32760	value of the Q ADARUN pa
LOGUX	Indicate whether Adabas user exit B data should be logged. For the dependencies of the various logging parameters, please review the detailed description.	YES | NO	NO
LOGVB	Indicate whether Adabas value buffers (VB) should be logged.	YES | NO	NO
LOGVOlio	Indicate whether the extended I/O list should be written to the command log for CLOGLAYOUT=8.	YES | NO	NO
LOGWarn	Specify the frequency, in seconds, at which the PLOG and CLOG status is checked and resulting alert messages are produced. This parameter is optional, but a valid user exit 2 or user exit 12 must also be specified when this parameter is set to any value other than zero (0). A value of zero (0), the default, indicates that no CLOG and PLOG status checks should occur and that no alert messages should be produced. Any other valid LOGWARN value represents the interval (in seconds) at which the PLOG and CLOG status is checked and resulting alert messages are produced.	0 - 2147483647	0
LP	Specify the number of blocks to allocate to the data protection area (Work part 1). The highest value you can set for this parameter is limited by the size of the Work data set and the sizes of Work parts 2, 3, and 4.	200 - *	1000
LQ	Specify the size (in bytes) of the table of sequential commands, which contains entries required during	2000 - 2147483647	10000

Parameter	Use to	Values	Default
	the processing of Adabas read sequential (L2/L5, L3/L6, and L9) commands.		
LRDp	Specify the size (in bytes) of the redo pool, which allows for deferred publishing. If the value of this parameter is set to 0, updated database blocks are always written to global cache at the time the update is made; no deferred publishing occurs. (Adabas Cluster Services, Adabas Parallel Services)	0 | 80000 - 2137483647	For Adabas Parallel Services 8.2 or later, th default is 0 (zero). For Adabas Cluster Services 8.2 or later, th default is either the value of the ADARUN LFIOP parameter or 1 megabytes, whicheve is smaller. For earlier releases of Adabas Parallel Services and Adabas Cluster Services, the default is the value of the ADARUN LFIOP parameter.
LRPl	Specify the size of the Adabas or Event Replicator replication pools, in bytes. This parameter should be specified for only: ■ an Adabas nucleus that also has REPLICATION=YES set. ■ an Event Replicator database The values for the Adabas nucleus and the Event Replicator database may be different.	20000 - *	100000 (if REPLICATION=YES) 0 (if REPLICATION=NO)
LS	Specify the maximum number of bytes for internal sort processing. **Note:** To ensure that a single search command does not use too much of the work pool space, the maximum LS value must be less than or equal to the LWP (work pool length) divided by two minus the minimum LS value (19968) (LS = LWP/2 - 19968).	19968 - *	49920
LSF	Indicate whether Logical Save Facility should be enabled (YES) or disabled (NO) for the nucleus.	YES | NO	NO
LTZ	Specify the size of the time zone pool used by a user session, in bytes.	0, 12288 - 2147483647	32768

Parameter	Use to	Values	Default
LU	Specify the length (in bytes) of the intermediate user buffer area. The range of values varies based on the operating system on which Adabas is installed.. On z/OS systems, LU cannot exceed a value greater than that produced by this calculation: *(NABvalue* x 4096)	a positive integer, minimum and maximum governed by the operating system.	65535
LWKP2	Specify the number of Work blocks to use for intermediate ISN lists Work part 2).	0 - 16777215	0
LWP	Specify the size (in bytes) of the Adabas work pool. This value must be equal to or greater than twice the sum of the specified internal sort area length (LS parameter) plus the minimum LS value (19968). In other words, the LWP value must be greater than or equal to a value calculated as follows: *(LS-value* + 19968)x 2 The minimum value you can specify is 80000 or a value not less than the value of the NT parameter multiplied by 25000.	80000-2147483647	150000
MLwto	Specify whether multi-line messages that are normally written to the operator console as a series of single-line write-to-operator (WTO) messages should instead appear as multi-line WTO messages. (Event Replicator for Adabas only)	YES | NO	NO
MODe	Identify the Adabas operating mode. Valid operating modes include running in single-user mode (SINGLE) or running in multiuser mode (MULTI).	SINGLE | MULTI	MULTI
MSGBuf	Specify the size (in kilobytes) of the message buffer area, which is used to buffer messages for use for performance and tuning and problem analysis.	0 - 128	0
MSGConsl	Specify the case of Adabas messages sent to the console.	Upper | Mixed	Mixed
MSGDruck	Specify the case of Adabas messages sent to the DD/DRUCK data set.	Upper | Mixed	Mixed
MSGPrint	Specify the case of Adabas messages sent to the DD/PRINT data set.	Upper | Mixed	Mixed
MXCANCEL	Specify the timeout threshold, in seconds, in which processing of an intracluster cancellation request must occur. Adabas Cluster Services, Adabas Parallel Services	15 - 2147483647	The value of t parameter.

Parameter	Use to	Values	Default
MXCANCELWarn	Specify the timeout threshold, in seconds, for an intracluster cancellation request to occur before issuing an early warning about the failure of the cancellation request. The value of this parameter must be less than the value of the MXCANCEL parameter. A value of "0" indicates that no warnings should be issued. Adabas Cluster Services, Adabas Parallel Services	0 | 4 - (*MXCANCEL_value* - 1)	The value of the MXCANCEL parameter divided by 4.
MXMSG	Specify the timeout threshold, in seconds, in which the processing of an intracluster command must occur. Adabas Cluster Services, Adabas Parallel Services	15 - 32767	300
MXMSGWarn	Specify the timeout threshold, in seconds, for a response to an intracluster command to occur before issuing an early warning about the failure of the request. The value of this parameter must be less than the value of the MXMSG parameter. A value of "0" indicates that no warnings should be issued. Adabas Cluster Services, Adabas Parallel Services	0 | 4 - (*MXMSG_value* - 1)	The value of the MXMS parameter divided by 4.
MXStatus	Specify the interval, in seconds, at which the member-level XCF status monitoring heartbeat should occur. A value of "0" indicates that no member-level status monitoring should occur. Adabas Cluster Services	0 | 15 - 21474836	15
MXTNa	Set the maximum non-activity time, in seconds, that can be specified in the OP command for an individual user.	1 - 65535	3600
MXTSx	Set the maximum execution time (in seconds) that can be specified for the ADARUN TLSCMD parameter and for any override execution time setting that might be specified in the Adabas control block of an OP command.	1 - 65535	3600
MXTT	Set the maximum transaction time limit, in seconds, that can be specified in the OP command for an individual user.	1 - 65535	3600

Parameter	Use to	Values	Default
MXWtor	Specify the timeout interval, in seconds, in which an operator response to a self-termination operator query must occur before issuing a warning. A value of "0" indicates that no warning message should be issued. Adabas Cluster Services	0 | 15 - 64800	0
NAb	Specify the number of attached buffers to be used during the session. The maximum value you can specify for this parameter varies, depending on the amount of available virtual storage.	1 -varies	16
NC	Specify the maximum number of command queue elements (CQEs) for the session. The number of CQEs established for the session determines the maximum number of Adabas commands that may be queued or be in process at any one time during the session.	20 - 32767	200
NCLog	Specify the maximum number of command log data sets to be opened and logged in the PPT for the session. A value of "0" disables this parameter.	0 | 2 - 8	0
NH	Specify the maximum number of hold queue elements for the session.	20 - 16777215	500
NIsnhq	Specify the maximum number of records that can be placed in hold status (hold queues) at the same time by a single user. The maximum value that can be specified for this parameter is the value set for the NH ADARUN parameter (which has a maximum value of 16777215). The default is the larger of 20 or the value of the NH parameter divided by the value of the NU parameter with the result multiplied by two ((NH/NU) * 2).	1 - 16777215 (NH parameter maximum)	20 | (NH/NU) (whichever is
NOndes	Indicate whether to allow (YES) searches using nondescriptors in search buffers.	YES | NO	YES
NPLOG	Specify the maximum number of protection log data sets to be opened and logged in the PPT. A value of "0" disables this parameter.	0 | 2 - 8	0
NPLOGBuffers	Specify the number of PLOG protection I/O buffers allocated in the Adabas nucleus session. PLOG protection I/O buffers are only allocated when ADARUN parameter LFIOP is set to a nonzero value.	1 - 2,147,483,687	1
NQcid	Specify the maximum number of active command IDs per user.	1 - 65535	20
NSisn	Specify the maximum number of ISNs per ISN table (TBI) element. The maximum value that can be specified varies based on the device type of the Work	7 - *	51

Parameter	Use to	Values	Default
	data set or, in the case where user-defined Work block sizes are used, the maximum value is based on a formula. For more information, refer to the more detailed NSISN documentation.		
NT	Specify the number of threads to be used during the Adabas session.	4 - 250	5
NU	Specify the maximum number of user queue elements for the Adabas session.	20 - 16777215	200
NUCid	Specify the ID of an Adabas nucleus in an Adabas cluster. Adabas Cluster Services, Adabas Parallel Services	0 - 65000	0
NWork1buffers	Specify the number of Work part 1 protection I/O buffers allocated in the Adabas nucleus session. Work part 1 protection I/O buffers are only allocated when ADARUN parameter LFIOP is set to a nonzero value.	1 - 2,147,483,687	1
OPenrq	Indicate whether an open command (OP) must be issued (is required) as the first command of a user session.	YES | NO	YES
PAmreqs	BS2000 only. Set the maximum number of PAM blocks that can be transferred in one PAM macro request. The default can be reduced to avaoid the recipt of I/O errors DMS09AC -- too many simultaneous I/O requests on some machines.	1 - 1024	80
PGfix	Indicate whether pages containing I/O control blocks are released after I/O processing is completed or after the job has ended when using EXCPVR on z/OS systems. When this parameter is set to *YES*, pages containing the I/O control blocks are fixed for the duration of the job. When set to "NO", pages are fixed only for the duration of I/O processing.	YES | NO	NO
PLOGDev	Specify the device type used for multiple protection log data sets. This parameter must be specified with the PLOGSIZE parameter.	Valid device types are listed in *Adabas Device Types and Block Sizes*	value of the DEVICE parameter
PLOGRq	Indicate whether a protection log is required for the Adabas session. For details on the meanings of the different values for this parameter, refer to the detailed PLOGRQ documentation.	YES | NO | SEL | FORCE	YES
PLOGSIze	Specify the number of blocks available for each protection log in multiple protection log data sets. This parameter must be specified with the PLOGDEV parameter.	16 - 16777215	---
PREFEtch	Indicate whether the Adabas command-level prefetch or multifetch features should be automatically enabled.	YES | OLD | NO	NO

Parameter	Use to	Values	Default
	YES enables the multifetch (M) option; OLD enables the prefetch (P) option; NO disables the prefetch feature.		
PREFICmd	Identify the commands that should be included in prefetch or multifetch processing. To specify multiple values for this parameter, list the values separated by forward slashes (/). For example: PREFICMD=L3/L9. The maximum number of entries is 50. The same number of list items must be specified for this parameter as are specified for the PREFIFIL parameter. If you want several commands to be prefetched or multifetched for a single file, repeat the same file number in the PREFIFIL parameter. The values for this parameter are used in conjunction with the value of the PREFIFIL parameter to customize prefetch and multifetch processing during the session. You cannot specify this parameter in the same session as the PREFXCMD parameter; if you do, the values of the PREFXCMD parameter are used and the values for this parameter are ignored.	L1 - L9	---
PREFIFil	Identify the files that should be included in prefetch or multifetch processing. To specify multiple values for this parameter, list the values separated by commas. The maximum number of entries is 50. The same number of list items must be specified for this parameter as are specified for the PREFICMD parameter. If you want several commands to be prefetched or multifetched for a single file, repeat the same file number in the PREFIFIL parameter. The values for this parameter are used in conjunction with the value of the PREFICMD parameter to customize prefetch and multifetch processing during the session. You cannot specify this parameter in the same session as the PREFXFIL parameter; if you do, the values of the PREFXFIL parameter are used and the values for this parameter are ignored.	1 - 5000	---
PREFNrec	Specify the number records that can be prefetched or multifetched. The maximum number of records that can be multifetched depends on the maximum that can be held by the record and ISN buffers.	0 - *	0
PREFSBl	Specify the size, in bytes, of the internal buffer used by multifetch/prefetch processes, which determines how much record data is prefetched.	1024 - *<PREFTBL value>*	3000

Parameter	Use to	Values	Default
PREFSTdd	Specify the job statement label (DD name) in the nucleus startup job that defines the location to which multifetch statistics should be written.	*ddname*	---
PREFTbl	Specify the size, in bytes, of the total prefetch buffer area.	6144 - 2147483647	30000
PREFXCmd	Identify the commands that should be *excluded* in prefetch or multifetch processing. To specify multiple values for this parameter, list the values separated by forward slashes (/). For example: PREFXCMD=L3/L9. The maximum number of entries is 50. The same number of list items must be specified for this parameter as are specified for the PREFXFIL parameter. If you want several commands to be prefetched or multifetched for a single file, repeat the same file number in the PREFXFIL parameter. The values for this parameter are used in conjunction with the value of the PREFXFIL parameter to customize prefetch and multifetch processing during the session. You cannot specify this parameter in the same session as the PREFICMD parameter; if you do, the values of this parameter are used and the values for the PREFICMD parameter are ignored.	L1 - L9	---
PREFXFil	Identify the files that should be excluded in prefetch or multifetch processing. To specify multiple values for this parameter, list the values separated by commas. The maximum number of entries is 50. The same number of list items must be specified for this parameter as are specified for the PREFXCMD parameter. If you want several commands to be prefetched or multifetched for a single file, repeat the same file number in the PREFXFIL parameter. The values for this parameter are used in conjunction with the value of the PREFICMD parameter to customize prefetch and multifetch processing during the session. You cannot specify this parameter in the same session as the PREFXFIL parameter; if you do, the values of the PREFXFIL parameter are used and the values for this parameter are ignored.	1 - 5000	---
PROGram	Identify the program to be run.	ADACOM | ADANUC | ADAREV | NETWRK | RENTUSER | USER | *utility-name*	USER
QBlksize	Specify the block size, in bytes, for sequential data sets used by ADAIOR, the Adabas I/O component. A value	0 - 262144	0

Parameter	Use to	Values	Default
	of "0" does not indicate that 0-byte block sizes should be used, but that the block size should be determined by the media type. For more information, read the detailed QBLKSIZE documentation.		
REAdonly	Indicate whether the Adabas session is a read-only session or it should permit database updates.	YES | NO	NO
REFstprt	Indicate whether statistics should be printed after they are refreshed after an ADADBS REFRESHSTATS utility function run or after interval statistics have been refreshed using Adabas Online System (option **R** in **Session Monitoring**).	YES | NO	YES
REPlication	Indicate whether replication should be activated for the Adabas nucleus. (Event Replicator for Adabas)	YES | NO	NO
REVFilter	Indicate whether Adabas Review record filtering should be allowed during the session. (Adabas Review)	YES | NO	YES
REVIew	Indicate whether Adabas Review should be run in local mode, hub mode (specifying the hub ID), or not at all. (Adabas Review)	NO | LOCAl | *hubid*	NO
REVLOGBmax	Specify the maximum allowable number of bytes of a logged buffer for Adabas Review. (Adabas Review)	0 - 30000	5120
REVLOGMax	Specify the maximum size of all of the logged buffers allowed for an Adabas Review command. (Adabas Review)	2000 - 32764 (32K - 4)	16384
RIafterupdate	Indicate whether Adabas should suppress the response code 113 (ADARSP113) subcode 5 and response code 2 (ADARSP002) subcode 5 that are returned when an application issues an RI command for a record that has been updated in the current transaction. The RI command returns response code 0 instead, but does not release any updated records from hold.	YES | NO	NO
RPLCONNECTCount	Specify the number of connection attempts made for the Adabas or Event Replicator Server nucleus after an attempt fails.	0 - 2147483647	0
RPLCONNECTInterval	Specify the interval (in seconds) between connection attempts made for the Adabas or Event Replicator Server nucleus after an attempt fails.	0 - 2147483647	0

Parameter	Use to	Values	Default
RPLParms	Identify the location where your replication definitions (initialization parameters) should be read from. Replication definitions can be read from the Replicator system file (FILE), from DDKARTE (PARMS), both the Replicator system file and from DDKARTE (where the DDKARTE specifications override any duplicates with the Replicator system file), or not at all (NONE). (Event Replicator for Adabas)	BOTH | FILE | NONE | PARMS	If the Replicator system file resides on the Event Replicator database, definitions are read first from the Replicator system file and then from DDKARTE. If the Replicator system file does not reside on the Event Replicator database, the definitions are read from DDKARTE.
RPLSort	Indicate whether Event Replicator for Adabas transaction data sorting should occur. (Event Replicator for Adabas)	YES | NO	YES
RPWARNINCrement	Specify the interval (in percentage of LRPL usage) at which warning messages should be sent indicating that the replication pool usage has exceeded the threshold set by the RPWARNPERCENT parameter. (Event Replicator for Adabas)	1 - 99	10
RPWARNINTerval	Specify the interval, in seconds, during which replication pool usage warning messages are suppressed on the console. (Event Replicator for Adabas)	1 - 2147483647	60
RPWARNMessagelimit	Specify the number of replication pool usage warning messages that can be issued to the console before message suppression begins. (Event Replicator for Adabas)	1 - 2147483647	5
RPWARNPercent	Specify the threshold for replication pool usage (expressed as a percentage of LRPL) at which replication pool usage warning messages should be sent. A value of *0* for this parameter indicates that no warning messages are issued. (Event Replicator for Adabas) .	0 - 99	0

Parameter	Use to	Values	Default
RVclient	Specify whether Adabas Review client reporting should be activated in batch environments. **Note:** This ADARUN parameter is valid only in z/OS environments and only when ADARUN PROGRAM=USER. (Adabas Review)	ACTIVE | INACTIVE	INACTIVE
SEcuid	Specify the requirement level of security system user IDs for a database. Using it you can indicate how Adabas handles calls from users without a security system user ID or with a security system user ID that changed during the Adabas session.	ALLOW | REQUIRE | WARN	ALLOW
SMF	Specify whether or not Adabas SMF recording should be enabled.	YES | NO	NO
SMF89	Specify whether or not the Adabas nucleus should register with z/OS for type 89 SMF records.	YES | NO	NO
SMFDETAIL	Specify the type of detail sections in SMF Interval and Termination records (subtypes 2 and 3) that should be included in Adabas SMF records. All specifications (regardless of how many) for this parameter should be enclosed in parentheses. When NONE or ALL are specified for this parameter, they should be specified alone; no other values can be combined with NONE or ALL. Valid detail section names are ALL, CMD, FILE, IODD, NONE, PARM, SESS, STG, THRD, ZIIP and USER. List of section names must be separated by commas. In cluster environments (Adabas Cluster Services and Adabas Parallel Services), additional detail section names can be specified: CSHB, CSHF, CSHG, CSHP, LOCK, MSGB, MSGC, and MSGH.	(NONE | ALL | *section-name-list*)	(NONE)
SMFINTERVAL	Specify whether SMF interval records should be generated and the interval at which they should be generated.	NONE | GLOBAL | SUBSYS | *minutes*	NONE
SMFRECNO	Specify the Adabas SMF record number used for user-defined SMF records.	128 - 255	255
SMFSUBSYS	Specify the name of the IBM or user-defined SMF subsystem from PARMLIB member SMFPRM*xx*.	CURRENT | *subsystem-name*	CURRENT
SMGt	Indicate whether the error handling and message buffering facility should be enabled for the session.	YES | NO	NO
SOrtcache	Indicate whether to enable (YES) or disable (NO) controller caching for the Adabas Sort data set.	YES | NO	YES

Parameter	Use to	Values	Default
SPt	Indicate whether use of Adabas triggers and stored procedures should be enabled for the session.	YES | NO	NO
SRlog	Indicate how spanned records should be logged to the protection logs.	ALL | UPD | PART	UPD
SVc	Specify the Adabas SVC number or Adabas Review hub SVC number to be used for the session.	200 - 255	249
TARgetid	Specify the unique Entire Net-Work target ID for this node.	1 - 65535	1
TCPIp	Indicate whether a direct TCP/IP link to the Adabas nucleus should be activated for this session.	YES | NO	NO
TCPUrl	Identify the universal resource locator (URL) for the direct TCP/IP link to the Adabas nucleus (when TCPIP is set to "YES").	*url*	---
TEmpcache	Indicate whether to enable (YES) or disable (NO) controller caching for the Adabas Temp data set. This parameter is valid only in z/OS environments.	YES | NO	YES
TFlush	Specify the time, in seconds, to allow for a synchronous buffer flush.	1 - 30	1
TLscmd	Specify the maximum time, in seconds, to be used to process a single Adabas S1, S2, or S4 command with complex search criteria.	1 - the setting of the ADARUN MXTSX parameter	300
TMDrq	Set the number of entries allowed in the Adabas Transaction Manager's internal request queue. (Adabas Transaction Manager)	10 - 32767	10
TMEtdata	Identify the database or databases that will store Adabas Transaction Manager's ET data. (Adabas Transaction Manager)	ATM | TARGETS	TARGETS
TMGtt	Set the time limit, in seconds, during which a global transaction can be open without being prepared. (Adabas Transaction Manager)	1 - 16777215	720
TMLog	Identify the logging option for the current execution of the Adabas Transaction Manager. (Adabas Transaction Manager)	YES | NO | NEVER	NO
TMMsgsev	Set the severity threshold for the suppression of Adabas Transaction Manager warning messages. If this parameter is set to "0", no messages are suppressed. (Adabas Transaction Manager)	0 | 4 | 8	0

Parameter	Use to	Values	Default
TMRestart	Identify how restart processing of problematic transactions should be handled. (Adabas Transaction Manager)	NORMAL | FORCE | FORCEALL	NORMAL
TMSyncmgr	Indicate whether the Adabas Transaction Manager is to interact with an external transaction coordinator. (Adabas Transaction Manager)	NONE | RRMS	NONE
TMTcidpref	Define the first one or two characters (the prefix) of dynamically allocated client IDs. Up to two alphanumeric characters can be specified. (Adabas Transaction Manager)	*prefix*	TM
TNAA	Specify the maximum elapsed time, in seconds, that an access-only user may be considered active without issuing an Adabas command.	1 - 2147483647	900
TNAE	Specify the maximum elapsed time, in seconds, that an ET logic user may be considered active without issuing an Adabas command.	1 - 2147483647	900
TNAX	Specify the maximum elapsed time, in seconds, that an exclusive control user may be considered active without issuing an Adabas command.	1 - 2147483647	900
TT	Specify the maximum elapsed time, in seconds, permitted for a logical transaction issued by an ET logic user.	1 - 2147483647	900
UEX*nn*	Activate a user exit and specify the name of the user routine for the exit. The value of *nn* in the parameter name must be an integer in the range from 1 through 12, inclusive that identifies the number of the user exit. The value assigned the parameter must be a one to eight-character name of the corresponding user routine that gets control. **Note:** User exit 2 (UEX2) and user exit 12 (UEX12) are mutually exclusive.	*user-routine-name*	---
UEXSMF	Specify the name of the SMF user exit module.	*module-name*	---
UPdatecontrol	Specify whether or not to shortly delay the scheduling of update commands at the end of buffer flushes.	DELAY | NODELAY	DELAY
UTIonly	Indicate whether the session should be restricted to Adabas utilities only.	YES | NO	NO
V64bit	Indicate whether the Adabas nucleus should use virtual storage above the 2 gigabyte bar. In order for the nucleus to use 64-bit virtual storage, the operating system must also support 64-bit virtual storage.	YES | NO	NO

Parameter	Use to	Values	Default
VIsta	Indicate whether support for Adabas Vista should be enabled. (Adabas Vista)	YES | NO	NO
WOrkcache	Indicate whether to enable (YES) or disable (NO) controller caching for the Adabas Work data set. This parameter is valid only in z/OS environments.	YES | NO	YES
ZIIP	Indicate whether or not to activate Adabas for zIIP.	YES | NO	NO

5 Natural Security AOS Error Messages

NSC0123	**Internal error (invalid function-name).**
Explanation	Adabas Online System security runtime detected that the function is not provided in the list of possible functions.
Action	Contact Software AG Support.

NSC0234	**Internal error (no file-nr).**
Explanation	Adabas Online System security runtime detected an internal error.
Action	Contact Software AG Support.

NSC0345	**Internal error (file number specified).**
Explanation	Adabas Online System security runtime detected an internal error.
Action	Contact Software AG Support.

NSC0456	**Internal error (DBID = 0).**
Explanation	Adabas Online System security runtime detected an internal error.
Action	Contact Software AG Support.

NSC0999	**Unexpected return-code**
Explanation	Adabas Online System security runtime detected an internal error.
Action	Contact Software AG Support.

NSC1001	**User not linked to application "SYSAOS".**
Explanation	Natural Security library SYSAOS is defined as people-protected. The user ID must have access rights to library SYSAOS, either via a group ID or via an individual link.
Action	Contact the security administrator and request access to library SYSAOS. For further details see the Adabas Online System Security documentation.

NSC1002	**User has no AOS-SEC-profile.**
Explanation	The user needs access rights to library SYSAOS. In addition, an Adabas Online Systemsecurity profile must have been defined. In this case no Adabas Online System security profile is found.
Action	Contact your Adabas Online System administrator and request an Adabas Online System security profile. For further details see the Adabas Online System Security documentation.

NSC1003	**Function not allowed in user profile.**
Explanation	The selected file function is denied because it is not allowed in the Adabas Online System database file profile related to this user.
Action	Contact the Adabas Online System security administrator and request a change of the Adabas Online System security profile.

NSC1004	**Function not allowed in user profile.**
Explanation	The selected database function is denied because it is not allowed in the Adabas Online System database file profile related to this user.
Action	Contact the Adabas Online System security administrator and request a change of the Adabas Online System security profile.

NSC1100	**User profile has been illegally manipulated.**
Explanation	Adabas Online System security runtime detected a manipulation of the Natural Security data.
Action	The security administrator has to correct the data manually: The link between the library SYSAOS and the user ID has to be modified. Afterwards it should also be checked if the Adabas Online System security data are still correct.

NSC3001	**"default-user" not linked to "SYSAOS".**
Explanation	A default user may be defined, which can be used for these databases for users for whom no individual profile exists. This must be linked to library SYSAOS.
Action	For further details see the Adabas Online System Security documentation.

NSC3002	**Function not allowed (no DEFAULT profile).**
Explanation	No Adabas Online System security profile is defined for the default user.
Action	Contact your Adabas Online System security administrator.

NSC3003	**Function not allowed in default profile.**
Explanation	The selected file function is denied because it is not allowed in the Adabas Online System database file profile for the default user ID.
Action	Contact your Adabas Online System security administrator.

NSC3004	**Function not allowed in default profile.**
Explanation	The selected database function is denied because it is not allowed in the Adabas Online System database file profile for the default user ID.
Action	Contact your Adabas Online System security administrator.

NSC3005	**Function not allowed (default not found in SYSSEC).**
Explanation	A default user may be defined, which can be used for these databases for users for whom no individual profile exists. The default user ID must be defined in the "user exit" of the Natural Security library SYSAOS profile.
Action	For further details see the Adabas Online System Security documentation.

NSC3100	**Default profile has been illegally manipulated.**
Explanation	Adabas Online System security runtime detected a manipulation of the Natural Security data.
Action	The security administrator has to correct the data manually: The link between the library SYSAOS and the user ID has to be modified. Afterwards it should also be checked if the Adabas Online System security data are still correct.

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