Installing The AOS Demo Version

This section describes how to install the Adabas Online System (AOS) demo version on a z/OS or FACOM MSP system. To install AOS on systems that use Software AG's System Maintenance Aid (SMA), refer to the section of this document describing installation of Adabas in your operating environment. For information about SMA, see the *System Maintenance Aid* documentation.

Notes:

1. To install the full version of AOS, see the *Adabas Online System* documentation.
2. Demo versions of Adabas Vista (AVI), Adabas Fastpath (AFP), Adabas SAF Security (AAF), and Adabas Transaction Manager (ATM) are automatically installed when you install either the demo or full version of AOS.

The AOS demo version requires the same Natural version as the corresponding release of Adabas Online System. Please refer to the appropriate Adabas Online System documentation to determine its Natural requirements.

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AOS Demo Installation Procedure

▶ **To install the AOS demo version without the System Maintenance Aid**

1. For a Com-plete or CICS environment, link the correct object module with the Natural TP nucleus.

   If a split Natural nucleus is to be installed, the AOSASM module must be linked to the shared portion of the nucleus and not to the thread portion.

2. Optionally, set the AOS defaults. Parameters that control the operation of AOS can be set at installation time by changing the defaults in the Natural program AOSEX1 found in library SYSAOSU. For complete information about these parameters, read *Setting the AOS Demo Version Defaults*.

3. After setting the AOS defaults in the previous step, copy the AOSEX1 member and its companion member P-AOSEX1 from the SYSAOSU library to the SYSAOS library. The programs for AOS are stored in library SYSAOS, and these members and the correct AOSEX1 parameters for your environment must be present in SYSAOS for AOS to run.

   The SYSAOSU library is provided to ensure that AOS settings (including the AOSEX1 settings) in your running AOS installation are not overwritten when you upgrade or apply maintenance to your AOS code. Whenever you upgrade or apply maintenance, you must ensure that the AOSEX1 member in the SYSAOSU library is updated appropriately and copied (with P-AOSEX1) to the SYSAOS library.

4. Perform a Natural INPL.

    The tape containing the AOS demo version contains an INPL-formatted data set in Natural. The programs for the AOS demo version are stored in library SYSAOS.

    The distributed INPL jobs (both the sample jobs and the SMA-generated jobs) that you use to load the Adabas INPL library load it in a date-sensitive manner. In other words, the load process will now check the dates of your existing INPL library and will not allow older members to overwrite members with newer dates. However, if you use your own Natural batch jobs to load the Adabas INPL library, you will need to modify them to be date-sensitive. To do this, specify the following CMSYNIN primary command input in your job (this setting assumes the Natural input parameters in the job are specified in comma-delimited mode, or IM=D):

    ```
    B,,,,,,,Y
    ```

    The "B" setting indicates that the INPL action should load everything; the next six fields (comma-delimited) are defaults, the eighth field is specified as "Y" to indicate that dates in the INPL library should be checked, and the ninth field is not included in the specification because the default for that field will be used. For more information about Natural CMSYNIN input, refer to your Natural documentation.

    Note:
    When migrating an Adabas 7.4 installation, this procedure does not apply. Instead, you should replace the 7.4 INPL library members with the latest Adabas 8 INPL library members, regardless of the dates of the members, to avoid creating a library containing members from both releases.

5. Load the ADA error messages using the Natural utility ERRLODUS.

    The error messages are stored in an ERRN-formatted data set included on the tape.

    See the *Natural Utilities* documentation for information about the ERRLODUS utility.

6. Execute the AOS demo version by logging on to the application library SYSAOS and entering the command MENU.

Installing AOS with Natural Security

If Natural Security is installed, define at least the library SYSAOS to it.

Define the following libraries as needed:

- For Adabas Vista: SYSAVI and SYSMV*vrs*

- For Adabas Fastpath: SYSAFP and SYSMW*vrs*

- For Adabas SAF Security: SYSAAF and SYSMX*vrs*

- For Adabas Transaction Manager: SYSATM and SYSMT*vrs*

Software AG recommends you define SYSAOS and any other libraries you may define as protected.

Specify the startup program for SYSAOS as MENU. Do not specify a startup program name for the other libraries.

Natural Security must be installed before implementing Adabas Online System Security. See the *Adabas Security* documentation for more information. For information about installing Natural Security for use with AOS Security, see the *Natural Security* documentation.

Natural Security includes the ability to automatically close all open databases when the Natural command mode's LOGON function of the AOS demo version is invoked.

Setting the AOS Demo Version Defaults

Parameters that control the operation of Adabas Online System can be set at installation time by changing the defaults in the Natural program AOSEX1. Once you have altered the parameters as needed for your installation, copy the AOSEX1 and P-AOSEX1 members from the SYSAOSU library to the SYSAOS library.

The table below lists the parameters and possible values.

Parameter	Valid Values	Default	Description
ADMIN-LEVEL	0-9	6	Administration level: Allows access to certain functions that can cause error conditions in the ADABAS environment. When set to 8 or higher, it allows the "CATCH RSP-CODE" direct command to occur, and when set to 9, it allows the "ZAP" function to be issued.
AOS-END-MSG	Yes (Y) or No (N)	Y	Display AOS end-of-session message?
AOS-LOGO	Yes (Y) or No (N)	N	Display AOS logo?
BATCH-ERROR	Yes (Y) or No (N)	N	Batch job cond code: When AOS is executing from a batch job and has an error condition, and if BATCH-ERROR is set to "Y", AOS will terminate with a condition code of 8. This function will be fully implemented over time, as all AOS programs must be modified for this.
BLK-CYL	Cylinder (C) or Block (B)	B	Space control by block or cylinder
CMD-INT	Natural (N) or AOS (A)	A	Pass-through control for invalid AOS commands: "N" passes invalid commands to Natural; "A" displays an error message for invalid commands.

Parameter	Valid Values	Default	Description
CPEXLIST	No (N) or Yes (Y)	N	Display extended checkpoint list? A value of "N" displays the normal list; a value of "Y" displays the extended list.
EX1-A1	---	---	Reserved for future use.
EX1-N3	---	---	Reserved for future use.
EXF-UTI	E or U	U	UTI or EXF file lock exception. A value of E specifies an EXF exception; a value of U specifies a UTI exception.
MAX-AC-IOS	0-999999	150	AC read converter block threshold value
MAXANZ	1-99999999	100	Maximum displayed user queue elements
NR-EXT	1-5	4	Critical extent threshold for listing file. This parameter applies to Adabas 7.4 (or earlier) installations.
NR-EXT2	1-99	50	Critical extent threshold for listing file. This parameter applies to Adabas 8 (or later) installations.
NR-PERCENT	1-99	89	Report function: NR-PERCENT is a threshold value for the display of critical files concerning the percentage full of the extents reached in AC/UI/NI/DS table type. A value greater than NR-PERCENT will be highlighted.
PURGE-UQE	Yes (Y) or No (N)	N	Remove user queue element?
SAVEFDT	Yes (Y) or No (N)	N	Keep deleted file's FDT?
STATINTV	1-9999 seconds	60	Statistics-gathering interval, in seconds
TID-DISPLAY	B, A, I	I	Control display for TID in "display user queue" function: "B" = binary TID display; "A" = alpha TID display; "I" = alpha for A-Z/0-9, otherwise binary.
TIMELA	0-99999999 seconds	0 (no limitations)	Display user queue elements with activity during the last "n" seconds.
TIN-JOBN	T or J	J	Display either job name or time-in in "display command queue" function. A value of "T" indicates that time-in should be displayed; a value of "J" indicates that the job name should be displayed.

To change the defaults, you must edit the Natural AOSEX1 program and make the changes directly within the program listing in the defaults area, which looks as follows:

```
    .
   .
  .
DEFINE DATA PARAMETER USING P-AOSEX1
END-DEFINE
*
* SET THE DEFAULTS
*
ADMIN-LEVEL = '6'     (Allows access to certain functions that can cause error conditions in the ADABAS environment)
AOS-END-MSG = 'Y'     (Display end-of-session message)
AOS-LOGO = 'Y'        (Adabas Online System logo display-set to 'N' for no logo display)
BATCH-ERROR = 'N'     (If BATCH-ERROR is set to "Y", AOS will terminate with a condition code of 8 if an error occurs.)
BLK-CYL  = 'B'        (Space allocation default-set to 'C' for cylinders)
CMD-INT  =  'A'       (Pass invalid Adabas commands to (N)atural, or intercept (A))
CPEXLIST = 'N'        (Checkpoint list control-set to 'Y' for extended checkpoint list)
NR-EXT2 = '50'        (ADA V8 critical extent threshold.  Range: 1-99)
EXF-UTI  = 'U'        (File locking exception-set to 'E' to except files in EXF status)
MAXANZ  = 100         (Maximum user queue elements displayed. range: 1 - 99,999,999 elements)
NR-EXT = 4            (ADA V7 critical extent threshold.  Range: 1, 2, 3, 4, or 5)
NR-PERCENT = '89'     (NR-PERCENT is a threshold value for the display of critical files)
MAX-AC-IOS = 150      (AC read converter block threshold)
PURGE-UQE = 'N'       (Remove element from user queue. Pre-5.1 default is "Y")
SAVEFDT  = 'N'        (Keep old FDT for SAVE operation-set to 'Y' to save FDTs)
STATINTV = 60         (Statistic-gathering time. range: 1 - 9999)
TID-DISPLAY = 'I'     (TID display control: B=binary, A=alpha, I=normally alpha, special characters as binary)
TIMELA = 0            (Include activity in last 'n' seconds. range: "all" (0) -last 99,999,999 seconds)
TIN-JOBN = 'J'        (Command queue display-"J" for job name, "T" for "time in queue" )
*
END
```