# Getting Started

This chapter introduces the AOS screen system and usage conventions. It contains the following topics:

- Accessing AOS

- The Main Menu

- Adabas Online System Demo Version

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## Accessing AOS

▶ **To access the Adabas Online System (AOS) screens:**

1. In ISPF, invoke a Natural session.

2. On the command line of the Natural session **Main Menu**, enter:

```
LOGON SYSAOS
```

You are connected to Adabas Online System.

3. On the command line of the Natural session **Main Menu**, enter:

```
MENU
```

The Adabas Online System **Main Menu** appears.

```
 15:08:13            ***** A D A B A S  BASIC  SERVICES *****          2009-08-11
                           -  Main Menu  -                             PMAIN02


             Code   Basic Services              Code   Other Services
             ----   ---------------------       ----   --------------------
             A      Session monitoring          1      Adabas Cache Facility
             C      Checkpoint maintenance      2      Delta Save Facility
             F      File maintenance            3      Trigger Maintenance
             M      Database maintenance        4      AOS Security
             O      Session opercoms            5      Transaction Manager
             R      Database report             6      Adabas Statistics
             S      Space calculation           7      Vista
             ?      Help                        8      Fastpath
             .      Exit                        9      SAF Security
             ----   ---------------------       ----   --------------------

  Code ....... _
  Database ... 1955    (WIS1955)

 Command ==>
 PF1----- PF2------ PF3------ PF4------ PF6----- PF7----- PF8----- PF12-----
 Help               Exit
```

# The Main Menu

From the main menu, you can access Basic Services or any Other Service that is installed on your system. Such services are highlighted on the menu.

```
 15:08:13            ***** A D A B A S  BASIC  SERVICES *****          2009-08-11
                           -  Main Menu  -                             PMAIN02


             Code   Basic Services              Code   Other Services
             ----   ---------------------       ----   --------------------
             A      Session monitoring          1      Adabas Cache Facility
             C      Checkpoint maintenance      2      Delta Save Facility
             F      File maintenance            3      Trigger Maintenance
             M      Database maintenance        4      AOS Security
             O      Session opercoms            5      Transaction Manager
             R      Database report             6      Adabas Statistics
             S      Space calculation           7      Vista
             ?      Help                        8      Fastpath
             .      Exit                        9      SAF Security
             ----   ---------------------       ----   --------------------

  Code ....... _
  Database ... 1955    (WIS1955)

 Command ==>
 PF1----- PF2------ PF3------ PF4------ PF6----- PF7----- PF8----- PF12-----
 Help               Exit
```

The Adabas Online System Main Menu allows you to perform DBA tasks within Basic Services, selectable by menu option:

| Option | Task | Read |
|---|---|---|
| A | **Session monitoring** functions display nucleus parameters, session statistics, buffer sizes for queues and areas, and maintenance levels | *Monitoring Adabas Sessions* |
| C | **Checkpoint maintenance** lists and deletes checkpoint information. | *Maintaining Checkpoints* |
| F | **File maintenance** controls Adabas fields (increase or add a field, release a descriptor) and files (define a new file; delete a file; refresh, rename, or renumber a file; allocate file space; change file parameters). It also controls ISN / storage block reuse. | *Maintaining Files* |
| M | **Database maintenance** controls Adabas database (ASSO/DATA) file and space allocation, DIB blocks, and lets you recover space unused by ABENDed utilities. | *Maintaining Databases* |
| O | **Session opercoms** control extended error recovery, lock/unlock of files, stop user(s), session termination, and management of online utilities | *Performing System Operator Command Functions* |
| R | **Database report** displays tables of "critical" extents, a file's FDT, general and specific file information, VOLSER, and general database information. | *Reviewing the Database Report* |
| S | **Space calculation** provides an aid to calculating database ASSO, DATA, sort, temp, and WORK space. | *Calculating Space Requirements* |

This section provides more details about using the Main Menu and some general information about AOS screens:

- Specifying the Basic Services Database

- Using Program Function (PF) Keys

- Invoking Basic Services Functions

- Getting Help

- Basic Services Messages

## Specifying the Basic Services Database

The database on which Basic Services is installed becomes the default database for Basic Services functions. However, you can specify the database of any active Adabas nucleus session. Subsequent Basic Services functions refer to that database until you specify another database or exit Basic Services.

If you specify a database that is also an Event Replicator Server, the main menu identifies the database as an Event Replicator Server by displaying "Replicator" in the upper left corner of the screen, as shown below. This is the only screen on which this identification explicitly occurs, but the Basic Services functions available and the information displayed for Event Replicator Server databases vary slightly from those provided regular Adabas databases.

```
15:36:09            ***** A D A B A S  BASIC  SERVICES *****              2009-08-11
Replicator                       -  Main Menu  -                          PMAIN02


            Code  Basic Services              Code  Other Services
            ----  ---------------------       ----  --------------------
             A    Session monitoring           1    Adabas Cache Facility
             C    Checkpoint maintenance       2    Delta Save Facility
             F    File maintenance             3    Trigger Maintenance
             M    Database maintenance         4    AOS Security
             O    Session opercoms             5    Transaction Manager
             R    Database report              6    Adabas Statistics
             S    Space calculation            7    Vista
             ?    Help                         8    Fastpath
             .    Exit                         9    SAF Security
            ----  ---------------------       ----  --------------------

 Code ....... _
 Database ... 1954    (WIS1954)

Command ==>
PF1----- PF2------ PF3------ PF4------ PF6----- PF7----- PF8----- PF12-----
Help               Exit
```

## Using Program Function (PF) Keys

Available PF keys and their functions are listed at the bottom of each Basic Services screen. The following program function (PF) keys may appear on Basic Services screens:

| Function Key | Description |
|---|---|
| PF1 | Get help |
| PF3 | Exit to previous screen |
| PF7 | Page backward through a series of screens. |
| PF8 | Page forward through a series of screens. |
| PF12 | Return to the Adabas Online System main menu |

## Invoking Basic Services Functions

You can invoke AOS Basic Service functions by selecting a menu option or, for most functions, by entering a command directly on the command line.

- Selecting a Menu Option
- Entering Commands Directly

### Selecting a Menu Option

▶ **To invoke function using a menu option:**

1. Enter the option code in the Code field.

Selecting a Main Menu function displays a menu of choices for that function.

**Entering Commands Directly**

Most Basic Services functions can be invoked using direct commands from the command line. The only exceptions are Adabas Online System security functions.

Each direct command corresponds to a function on a Basic Services menu. You can issue a direct command for a function on a different menu from the one currently displayed. You do not have to leave the current menu to perform a function that is not displayed.

More information about the direct commands is included in the *Basic Services Direct Commands*, where the direct command equivalent to each menu function is described.

## Getting Help

Two direct commands that can be issued from any Basic Services menu are ? and `help`.

- The **?** option (you can also use PF1; see the section *Program Functions Keys*) displays a brief comment about the current menu.

- `help` provides concise information about the individual Basic Services functions.

## Basic Services Messages

Basic Services issues a message confirming each completed function. If an error occurs, a message appears containing a reference number and describing the error.

**Before analyzing an error:**

1. Try reviewing the Help information (option **?** or PF1) for the last step you performed to see if any requirements were overlooked.

2. Retry the operation.

Response code 22 is returned if the Adabas session is terminated and restarted while Basic Services is active. In this case, AOS should be stopped and restarted.

# Adabas Online System Demo Version

The Adabas Online System (AOS) Demo version is a version of AOS with limited functionality, as described in this section. The items on each AOS menu that are not provided with the AOS Demo version have asterisks for their menu option codes. In general, you are only allowed to view information in the Demo version; to maintain parameters and settings, you must have the full version of AOS installed.

For example, on the following screen, the **Main Menu**. **Space calculation** as well as **Trigger Maintenance** options are not available.

```
 15:08:13              ***** A D A B A S  BASIC  SERVICES *****           2009-08-11
                             -  Main Menu  -                              PMAIN02


              Code  Basic Services             Code  Other Services
              ----  ---------------------       ----  --------------------
               A    Session monitoring           1    Adabas Cache Facility
               C    Checkpoint maintenance       2    Delta Save Facility
               F    File maintenance             *    Trigger Maintenance
               M    Database maintenance         4    AOS Security
               O    Session opercoms             5    Transaction Manager
               R    Database report              6    Adabas Statistics
               *    Space calculation            7    Vista
               ?    Help                         8    Fastpath
               .    Exit                         9    SAF Security
              ----  ---------------------       ----  --------------------

  Code ....... _
  Database ... 1955    (WIS1955)

 Command ==>
 PF1----- PF2------ PF3------ PF4------ PF6----- PF7----- PF8----- PF12-----
 Help                Exit
```

The rest of this section describes which AOS options are available in the Demo version and which are not.

Selecting **A** from the **Main Menu** displays the **Session Monitoring** menu. You can only select **Display parameters**, **Display installed products**, **Display queues**, **Display resource utilization**, and **Display maintenance levels** on this menu.

```
 19:17:59              ***** A D A B A S  BASIC  SERVICES *****           2009-08-18
                             -  Session Monitoring  -                     PAC0002


  Code    Service                         Code    Service
  ----    -------------------------       ----    ----------------------------
   *      Display cluster members          *      Refresh nucleus statistics
   *      Maintain user profiles           *      Current resource statistics
   D      Display parameters               *      Maintain TCP/IP URL
   I      Display installed products       U      Display resource utilization
   *      Display event log buffer         *      Replicator Management
   *      Modify parameters                Z      Display maintenance levels
   Q      Display queues
   ?      Help                             .      Exit
  ----    -------------------------       ----    ----------------------------

         Code ......... _
         Database ID .. 1955    (WIS1955)



 Command ==>
 PF1----- PF2------ PF3------ PF4------ PF6----- PF7----- PF8----- PF12-----
 Help                Exit                                              Menu
```

Selecting **Q** on the **Session Monitoring** menu causes the **Queue Displays** menu to appear. You can only select **Display Hold Queue** on the **Queue Displays** menu.

```
19:23:16             ***** A D A B A S  BASIC  SERVICES *****       2009-08-18
                        -  Queue Displays  -                        PACQ002

                     Code    Service
                     ----    --------------------------
                      *      Display User Queue Elements
                      *      Display Command Queue
                      H      Display Hold Queue
                      ?      Help
                      .      Exit
                     ----    --------------------------
    Code ............... _
    Max No. Elements ... 100
    Last Activity ...... 0        (elapsed time in seconds)
    Selection Criteria
      ET-ID (User-ID) .. _____   User Type ... ___
      Job Name ......... _____
      Terminal ID ...... _____
    Database ID ........ 1955      (WIS1955)                          0

Command ==>
PF1----- PF2------ PF3------ PF4------ PF6----- PF7----- PF8----- PF12-----
Help               Exit      Clear UID                             Menu
```

Selecting **U** on the **Session Monitoring** menu causes the **Resource Utilization** menu to appear. You can only select **System status** and **Thread usage** on the **Resource Utilization** menu.

```
19:24:53             ***** A D A B A S  BASIC  SERVICES *****       2009-08-18
                        -  Resource Utilization  -                  PACU002

Code   Service                              Code   Service
----   ------------------------------       ----   -------------------------------
 *     Command usage                         S     System status
 *     File usage                            T     Thread usage
 *     High water marks (pools/queues)       *     WORK status
 *     Workpool (LWP) usage                  *     Cluster usage
 *     Nucleus File Status                   *     Display PPT table
 *     PLOG status
 ?     Help
 .     Exit
----   ------------------------------       ----   -------------------------------


        Code ......... _
        File Number .. 0
        Database ID .. 1955   (WIS1955)

Command ==>
PF1----- PF2------ PF3------ PF4------ PF6----- PF7----- PF8----- PF12-----
Help               Exit                                           Menu
```

Selecting **C** on the **Main Menu** causes the **Checkpoint Maintenance** menu to appear. You can only select **List checkpoints** on the **Checkpoint Maintenance** menu.

```
19:26:42              ***** A D A B A S  BASIC  SERVICES *****        2009-08-18
                         -  Checkpoint Maintenance  -               PCP0002



                      Code     Service
                      ----     ----------------------
                       C       List checkpoints
                       *       Delete checkpoints
                       ?       Help
                       .       Exit
                      ----     ----------------------

        Code ............. _
        Date(YYYY-MM-DD) . 0000-00-00
        Ext. CP-list ..... N
        Checkpoint Name .. ALL
        Database ID ...... 1955   (WIS1955)


Command ==>
PF1----- PF2------ PF3------ PF4------ PF6----- PF7----- PF8----- PF12-----
Help            Exit                                               Menu
```

Selecting **F** on the **Main Menu** causes the **File Maintenance** menu to appear. You can only select **Define/modify FDT** on the **File Maintenance** menu.

```
19:27:42              ***** A D A B A S  BASIC  SERVICES *****        2009-08-18
                         -  File Maintenance  -                     PFL0004

Code  Service                           Code  Service
----  ------------------------------    ----  --------------------------------
  C   Define/modify FDT                   *   Modify file parameters
  *   Release descriptor                  *   Reorder file online
  *   Delete existing file                *   Refresh file to empty status
  *   Define new file                     *   Allocate/deallocate file space
  *   Logically delete/undel descriptr   *   Maintain expanded files
  ?   Help                               .   Exit
----  ------------------------------    ----  --------------------------------
        Code ......... _
        File No ...... 0     Descriptor Name .. __
        Database ID .. 1955   (WIS1955)




Command ==>
PF1----- PF2------ PF3------ PF4------ PF6----- PF7----- PF8----- PF12-----
Help            Exit                                               Menu
```

Selecting **C** on the **Main Menu** causes the **FDT/SDT Definition / Modification** menu to appear. You can only select **Define new FDT** on the **FDT/SDT Definition / Modification** menu.

```
 19:29:54            ***** A D A B A S  BASIC  SERVICES *****       2009-08-18
                      -  FDT/SDT Definition / Modification  -         PFLC004

                     Code    Service
                     ----    ----------------------
                      *      Add new field(s)
                      *      Change field parameters
                      D      Define new FDT
                      *      Delete field from FDT
                      *      Undelete field from FDT
                      *      Online invert
                      *      Define/add SDT
                      ?      Help
                      .      Exit
                     ----    ----------------------
            Code ......... _
            File No. .....
            Field Name ... __
            Database ID .. 1955   (WIS1955)

 Command ==>
 PF1----- PF2------ PF3------ PF4------ PF6----- PF7----- PF8----- PF12-----
 Help    Def. File Exit                                          Menu
```

Selecting **M** on the **Main Menu** causes the **Database Maintenance** menu to appear. In the Demo version, this menu only shows the options available when there is a licensed product installed; no options are available in Demo mode.

```
 19:31:45            ***** A D A B A S  BASIC  SERVICES *****       2009-08-18
                       -  Database Maintenance  -                    PDM0002

                     Code    Service
                     ----    ---------------------------
                      *      Add new dataset to ASSO/DATA
                      *      Increase/decrease ASSO/DATA
                      *      List/reset DIB block entries
                      *      Recover unused space
                      *      Uncouple two ADABAS files
                      ?      Help
                      .      Exit
                     ----    ---------------------------

           Code .......... _
           File No. ...... 0
           Coupled File .. 0
           Database ID ... 1955   (WIS1955)


 Command ==>
 PF1----- PF2------ PF3------ PF4------ PF6----- PF7----- PF8----- PF12-----
 Help               Exit                                         Menu
```

Selecting **O** on the **Main Menu** causes the **Session Opercoms** menu to appear. You can only select **Extended Error Recovery**, **Lock or unlock files**, **Stop user(s)** and **Termination Commands** on the **Session Opercoms** menu.

```
 19:36:22             ***** A D A B A S  BASIC  SERVICES *****          2009-08-18
                          -  Session Opercoms  -                        PACI002

  Code  Service                            Code  Service
  ----  -----------------------------      ----  -----------------------------
   *    Allocate/Deallocate CLOG/PLOG       S    Stop user(s)
   *    Issue reactivate CLOG command       T    Termination Commands
   E    Extended Error Recovery             *    Manage Online Utilities
   *    Force CLOG or PLOG switch           *    User Table Maintenance
   L    Lock or unlock files                *    Replicator Management
   *    Reset ONLINE-DUMP-Status
   .    Exit                                ?    Help
  ----  -----------------------------      ----  -----------------------------
        Code ........... _
        Userid(ETID) ... _____
        CLOG/PLOG Ind .. _
        Database ID .... 1955   (WIS1955)



 Command ==>
 PF1----- PF2------ PF3------ PF4------ PF6----- PF7----- PF8----- PF12-----
 Help           Exit                                              Menu
```

Selecting **E** on the **Session Opercoms** causes the **Extended Error Recovery** menu to appear. You can
only select **Add/Delete PIN modules** and **Display/modify PIN routines** on the **Extended Error
Recovery** menu.

```
 19:41:23             ***** A D A B A S  BASIC  SERVICES *****          2009-08-18
                          -  Extended Error Recovery  -                 PACIE02

                    Code    Service
                    ----    --------------------------------
                     *      Display message buffer
                     *      Display/modify environment
                     *      Display/modify Exit routines
                     M      Add/Delete PIN modules
                     P      Display/modify PIN routines
                     *      Refresh threshold and alert exits
                     *      SNAP a nucleus dump
                     ?      Help
                     .      Exit
                    ----    --------------------------------

    Code ........... _
    Start Address .. _____    End Address ... _____
    Database ID .... 1955   (WIS1955)

 Command ==>
 PF1----- PF2------ PF3------ PF4------ PF6----- PF7----- PF8----- PF12-----
 Help           Exit                                              Menu
```

Selecting **L** on the **Session Opercoms** causes the **Lock/Unlock Files** menu to appear. You can only select
**Display locked files** on the **Lock/Unlock Files** menu.

```
 19:43:48              ***** A D A B A S  BASIC  SERVICES *****        2009-08-18
                          -  Lock / Unlock Files  -                    PACIL02

                    Code    Service
                    ----    ---------------------------------
                     D      Display locked files
                     *      Lock file for all users
                     *      Advance lock file
                     *      Lock file except for UTI/EXF users
                     *      Unlock file from general lock
                     *      Release an advance lock
                     *      Unlock file from UTI/EXF lock
                     ?      Help
                     .      Exit
                    ----    ---------------------------------
        Code ........
        File Number ..
        UTI/EXF Ind .. U
        Database ID .. 1955   (WIS1955)

 Command ==>
 PF1----- PF2------ PF3------ PF4------ PF6----- PF7----- PF8----- PF12-----
```

Selecting **S** on the **Session Opercoms** causes the **Stop Users** menu to appear. In the Demo version, this menu only shows the options available when there is a licensed product installed; no options are available in Demo mode.

```
 19:46:31              ***** A D A B A S  BASIC  SERVICES *****        2009-08-18
                            -  Stop Users  -                           PACIS02

                      Code  Service
                      ----  ----------------------
                       *    Stop users using file
                       *    Stop inactive users
                       *    Stop users by jobname
                       *    Stop a selected user
                       ?    Help
                       .    Exit
                      ----  ----------------------
        Code ............. _
        File Number ...... _____
        Last Activity .... _____ (elapsed time in seconds)
        Job Name ......... _____
        Purge UQE(s) ..... N
        Selected Userid ..        ( XXXXXXX
        Database ID ...... 1955    (WIS1955)

 Command ==>
 PF1----- PF2------ PF3------ PF4------ PF6----- PF7----- PF8----- PF12-----
 Help     Disp UQ  Exit      Clear UID                            Menu
```

Selecting **T** on the **Session Opercoms** causes the **Session Termination** menu to appear. You can only select **Normal session termination** on the **Session Termination** menu.

```
19:47:44              ***** A D A B A S  BASIC  SERVICES *****        2009-08-18
                          -  Session Termination  -                    PACT002

                    Code     Service
                    ----     ----------------------------------
                     A       Normal session termination (ADAEND)
                     *       Cancel session immediately (CANCEL)
                     *       Stop session             (HALT)
                     ?       Help
                     .       Exit
                    ----     ----------------------------------
        Code ......... _
        Database ID .. 1955   (WIS1955)


         Current nr. of users in User Queue ... 1
         Nr. of users with open transactions .. 0



Command ==>
PF1----- PF2------ PF3------ PF4------ PF6----- PF7----- PF8----- PF12-----
Help            Exit                                             Menu
```

Selecting **R** from the **Main Menu** displays the **Database Report** menu. You can only select **Display file(s)** and **General database layout** on this menu.

```
19:50:37              ***** A D A B A S  BASIC  SERVICES *****        2009-08-18
                          -  Database Report  -                        PDR0002

                    Code     Service
                    ----     ------------------------------------
                     *       List files with crit. no. of extents
                     *       Display field description table (FDT)
                     F       Display file(s)
                     G       General database layout
                     *       List VOLSER distribution of database
                     *       Display ASSO/DATA block (RABN)
                     *       Display unused storage
                     ?       Help
                     .       Exit
                    ----     ------------------------------------
        Code ......... _
        File No ...... 0_____ Password ..
        Database ID .. 1955   (WIS1955)
        VOLSER ....... _____

Command ==>
PF1----- PF2------ PF3------ PF4------ PF6----- PF7----- PF8----- PF12-----
Help            Exit                                             Menu
```

**Note:**
Option F will display system files only.