

# **Adabas System Coordinator**

## **Adabas System Coordinator Online Services**

Version 7.4.2

September 2009

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# Adabas System Coordinator

This document applies to Adabas System Coordinator Version 7.4.2 and to 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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# 1 Adabas System Coordinator Online Services

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This document describes the Adabas System Coordinator Online Services application (SYSCOR).

The following topics are provided:

- **Using Adabas System Coordinator Online Services**
- **System Settings**
- **Maintenance**
- **Session Monitoring**
- **Special Services**



# 2 Using Adabas System Coordinator Online Services

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- Online Services Main Menu ..... 4
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- Using PF Keys ..... 6
- Help Information ..... 7

This section describes the Adabas System Coordinator Online Services application SYSCOR.

## Online Services Main Menu

---

► **To invoke Adabas System Coordinator Online Services**

- log on to SYSCOR and enter the command MENU.

During logon to SYSCOR, the application will determine its current run mode. Run mode can be any of the following:

Run Mode	Description
Coordinator not installed	The Adabas link module does not contain the Coordinator stub. Local session information will not be available but all other functions will work.
Local	The TP system in use is running in local (non-daemon) mode. By default, session information will be obtained locally.
Daemon / nnn	The TP system in use is running with an Adabas System Coordinator daemon. The daemon Node ID is displayed. By default, session information will be obtained from the daemon.

The run mode will be displayed on an Environment Information screen at logon. This screen also shows information about the current Adabas System Coordinator daemon, if one is used. It is displayed before the main menu appears.

The Main Menu screen will then appear:

```

11:45:07      ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****      2002-09-09
                - Main Menu -                                     C1MAINM1

Runmode:Local  Session: Local

          Code   Service
          ----   -
          0      System Settings
          1      Maintenance
          2      Session Monitoring
          3      Special Services
          4      About System Coordinator
          .      Exit
          ----   -
Code...: _
    
```



You can easily switch around the tools for Fastpath, Vista etc by use of the PF Keys shown, or use the codes COR, AFP, AVI, AAF, ATM as commands - anytime.

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

The following options are available:

Option	Description
<b>System Settings</b>	Maintain configuration file setting.
<b>Maintenance</b>	Define and maintain definitions and parameters.
<b>Session Monitoring</b>	Monitor the current session.
<b>Special Services</b>	Provide installation and applied ZAP information for the Adabas System Coordinator components, and define timeout settings.
About Adabas System Coordinator	Display product information.

## Navigation

You can access screens in two ways:

- sequentially by selecting a menu service and entering it in the Code field; or
- directly by typing a numerical command on the command line.

For example, entering the command 1.1 on the command line directly accesses the Job Parameters screen within the Maintenance function without first accessing the Maintenance menu.

Function	Object	Command
System Settings	Menu	0
	LFILE 152 Maintenance	0.1
Maintenance	Menu	1
	Job Parameters	1.1
	Daemon Groups	1.2
Session Monitoring	Menu	2
	Change Information Source	2.0
	Display daemon group members	2.1
	Display Adabas client jobs	2.2
	Display memory pool statistics	2.3

Function	Object	Command
	Display general statistics	2.4
	Display network information	2.5
Special Services	Menu	3
	Verify System Coordinator Client Installation	3.1
	Verify System Coordinator Server Installation	3.2
	Display Applied Fixes (Zaps)	3.3
	Set Timeout Settings	3.4

## Using PF Keys

---

SYSCOR uses PF keys for various actions. Key functions are standard throughout the system, wherever possible. The PF keys that apply to each screen are indicated at the bottom of the screen.

The following keys apply throughout the system:

PF Key	Function	Description
PF1	Help	invoke the help specific to the current screen
PF3	Exit	quit and return to the previous screen

The following keys apply generally, depending on the type of action or function in use:

PF Key	Function	Description
PF4	Refr	from active screens, refresh the data
PF5	Upd.	from general maintenance screens, commit the update
PF7	Back	from list screens, return to the previous page
PF8	Next	from list screens, move to the next page
PF10	Add	from general maintenance screens, add an object
PF12	Menu	return immediately to the main menu

## Help Information

---

### ▶ To invoke Adabas System Coordinator help information

- Press PF1.

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

You can navigate by entering

-	to move backwards and up a menu level
1 - 8	to move down a level to the function selected

If the help screen comprises multiple pages, you can enter

+	to move to the next page
-	to move to a previous page until page 1, then back up a level



# 3 System Settings

---

- System Settings Menu ..... 10
- Configuration File (LFILE 152) Maintenance ..... 11

This function is used to maintain the Adabas System Coordinator configuration file.

## System Settings Menu

---

▶ To display the System Settings menu

- Select service 0 from the main menu.

```
08:31:00 ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****                2002-09-09
- System Settings -                                                                C10000M1

      Code      Service
      ----      -
      1          LFILE 152 Maintenance
      .          Exit
      ----      -
Code...: _

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

From this menu, you can	Service	Cmd
<a href="#">customize the use of the configuration file (LFILE 152)</a>	0	0.1

## Configuration File (LFILE 152) Maintenance

### ▶ To customize the use of LFILE 152

- 1 Select service 1 from System Settings menu or enter the command 0.1 on a command line.

```

+-----+
| 18:24:45          LFILE 152 Maintenance          2003-04-30 |
|                                     U1LFILM2      |
|
| Current Settings for LFILE 152:
|
| Original LFILE = ( 152 , 135 , 18 )
| Current LFILE = ( 152 , 135__ , 18__ )
|                (effective only for this Natural session)
|
| Default pop-up settings:
| Do you want to see this window again ?
|                - for the current SYSAVI session... Y
|                - for future SYSAVI sessions..... Y
|
|                PF3 Exit      PF5 Update/Confirm
+-----+

```

The LFILE 152 Maintenance window appears.

In the Original LFILE field, the database and file number are displayed for the configuration file that was allocated to LFILE 152 at the start of your current SYSCOR session.

These values were allocated to LFILE 152 using the static Natural parameter `NTFILE ID=152, . .` or the dynamic Natural parameter `LFILE=(152, . .)`. For more information about specifying LFILE 152, see the installation instructions relevant to your operating system.

- 2 In the Current LFILE field, you can change the database and file number to access a different configuration file.

Specify the new configuration file database and file number, if necessary.

- 3 Review the default settings.

The LFILE 152 Maintenance window is displayed whenever an online services function is selected that accesses the configuration file, making it possible for the user to access multiple configuration files from within a single Natural session.

You may choose to deactivate the LFILE 152 Maintenance window and thus the possibility of changing the configuration file for just the current session or for all future sessions.

Regardless of the options you choose, you can always modify those choices by invoking the LFILE 152 Maintenance function from System Settings.



# 4 Maintenance

---

- Maintenance Menu ..... 14
- Maintain Job Parameters ..... 15
- Maintain Daemon Groups ..... 22

This service is used to define and maintain the parameters and definitions that are required by Adabas System Coordinator.

## Maintenance Menu

---

▶ **To display the Maintenance menu**

- Select service 1 from the main menu.



**Note:** The Current LFILE 152 Settings window may appear before the Maintenance menu. See the section [System Settings](#) for more information.

```

08:31:59          ***** A D A B A S SYSTEM COORDINATOR 7.4.2 ***** 2002-09-09
                  - Maintenance -                                     C11000M1

                  Code      Service
                  ----      -
                  1         Job Parameters
                  2         Daemon Group Parameters
                  .         Exit
                  ----      -
Code...: _

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

From this menu, you can	Service	Cmd
<a href="#">maintain job parameter values</a>	1	1.1
<a href="#">maintain daemon group parameter values</a>	2	1.2

## Maintain Job Parameters

This function is used to define/maintain job parameters for jobs that use Adabas System Coordinator services.



**Note:** See section Parameters for a complete description of all job parameters.



**Note:** Job parameters are shared between all installed optional products, and can be defined by any of the administration applications (SYSCOR, SYSAVI, SYSAFP, SYSATM).

- [List Job Parameters](#)
- [Add a Job Parameter](#)
- [Maintain a Job Parameter](#)

### List Job Parameters

#### ▶ To display a list of existing jobs

- Select service 1 from the Maintenance menu or enter the command 1.1 on the command line.

```

08:47:45          ***** A D A B A S SYSTEM COORDINATOR 7.4.2 ***** 2002-09-09
                  - Maintain Job Parameters List -                          C11000M1

                                                                <-- Reposition -->
                                                                Job Type:_____
                                                                Name:_____

C Job Type      Job Name      SysCo      Cluster
_ Batch        *DEFAULT    Group Name Service Name
_ CICS Cluster DAEFCI18    PRODGRP    PRODCICS

Mark with (D)isplay,(M)odify,(P)urge,(R)ename,(C)opy,(O)verrides

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

```

Press PF11 to view the products for which a job parameter is currently defined. From the next screen you can press PF11 again to select a product in order to modify the parameters related to that product.

Press PF8 to move to the next page, or use the Reposition field to position anywhere within the list.

## Add a Job Parameter

### ▶ To add a new job definition

- 1 Press PF10 from the Maintain Job Parameters screen.

The following window will appear:

```

+-----+
! 09:24:13   Add       2003-05-16 !
!           Job Parameters C11110M1 !
!                                     !
! Job Name: _____ !
! (D= Default for Job Type) !
!                                     !
!   _   Batch           !
!   _   COM-PLETE      !
!   _   CICS Cluster   !
!   _   CICS           !
!   _   IMS/DC         !
!   _   UTM            !
!   _   TSO            !
!   _   CMS            !
!   _   TIAM           !
!   _   None above    !
! Mark to Select a Job Type !
!                                     !
! Command ==>         !
!   PF1 Help       PF3 Exit !
!                                     !
+-----+

```

- 2 In the field Job Name, enter the name of the job to be added.




**Note:** If you enter the value D in this field, a default job name will be assigned according to the job type defined for the job.



**Note:** Default job definitions are not available for job type CICS Cluster.

- 3 Select a job type for the job from the list provided.

Each different job type has different characteristics and it is therefore important to select the correct type.

 **Note:** Select the job type "CICS" if CICS/MRO is to be used without dynamic transaction routing or for other CICS environments. Select the job type "CICS Cluster" if CICS/MRO is to be used with dynamic transaction routing.

If you mark the selection "None of the above", another selection window will appear with additional job types. If you need to use any of these, contact Software AG for advice.

- 4 After selecting a job type, press ENTER. In the following example, the job type "CICS Cluster" was selected which results in the following screen being displayed:

```

16:14:13      ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****      2002-09-09
                - Add Job Parameters -                                C11110M3

Runmode: Local                                     Session: Local

Job Type: CICS Cluster
Job Name.....: CICSP*_
                (D = Default for Job Type)
Estimated Client Sessions.....: 1000
Fixed Memory Pool Size (k).....: 256
Managed by Daemon.....: Y (Y/N)
  Daemon Group Name.....: PRODGRP
  Clustered Application Service Name.....: CICSPROD
  Daemon manages Terminal Sessions only..: X
  or manages All Sessions.....: _

Adabas Activity - Maximum Idle Times
  for Terminal Sessions.....: 3600      S (S/M/H/D)
  give response 9: Y (Y/N) up to: 0      seconds later
  for Background Sessions.....: _____

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

```

The initial parameter values set up for the new job are copied from those specified in the \*DEFAULT entry for the selected job type. If no default entry exists for the job type, then product default values are used.

- 5 In the field Job Name, enter the name of the job.

A job name may contain one or more asterisks (\*) to indicate a wild card. For example, the job parameter with the name CICS\*\*PR will be found by any job with the value "CICS" in positions 1-4 and the value "PR" in positions 7-8, no matter what the characters are in positions 5-6. If an asterisk (\*) is the last character in a job name, the remainder of positions in the name through the eighth are padded with asterisks.

Job parameters are always matched on type. The order of search within type is

1. Match on exact job name.
2. Match on wild card definitions.
3. Use the default for the job type, if one has been defined.

Note that the number of wild card job names defined for a job type has a direct effect on the number of Adabas commands needed to establish the job parameters at initialization. This is particularly relevant to batch jobs that process relatively few Adabas commands.

6 Enter/modify any of the following settings for the job:

Parameter	Description
Estimated Client Sessions	This parameter is used to determine initial memory pool size and frequency of user timeout checking. Note that the user memory pool takes the name of the defined Clustered Applications Service Name.
Fixed Memory Pool Size	Fixed pools are created dynamically and extended by the supported optional products. Specify the initial size of fixed pools here. For batch jobs the minimum pool size is 32K. For all other job types it is 256K.  <b>Note:</b> Pool sizes can be reviewed by using the <a href="#">Session Monitoring</a> function. These parameters may need to be adjusted if pools frequently expand into secondary extents.
Managed by Daemon Daemon Group Name Clustered Application Service Name: Daemon Managed Sessions	Specify "Y" if this job is a clustered application which will be managed by a coordinator daemon  If "Y" is specified in the field Managed by Daemon, the following fields must also be completed:  <ul style="list-style-type: none"> <li>■ Daemon Group Name and Clustered Application Service Name. Specify the group and service name of the clustered application service that is to manage the job. These are required if you are defining a parameter for a job that is using dynamic transaction routing. You must specify the same group and service name for all jobs that are part of the same clustered application. The group that you specify must have been previously defined.</li> <li>■ Daemon Managed Sessions. Specify which sessions are to be managed by the Adabas System Coordinator group. This is required only for clustered applications. If non-terminal ("background") sessions do not participate in dynamic transaction routing it is not necessary for them to be managed by the coordinator group. Since, in some installations non-terminal sessions may be very frequent, it will be more efficient to exclude them.</li> </ul>

Parameter	Description
Maximum Idle Times	<p>Specify a time limit, after which sessions are eligible for timeout termination if no activity has occurred. Sessions that are timed out will receive response code 9, subcode 79 if they are re-activated.</p> <p>If desired, the return of response code 9 can be limited to an elapsed time period, or it can be suppressed altogether:</p> <ul style="list-style-type: none"> <li>■ To limit the time period for return of response 9, specify "Y" in the "give response 9 (Y/N) field, and a non-zero value in the "Up to ..... seconds later" field. If a timed-out terminal re-activates, response 9 will only be returned if the re-activation occurs within the specified time period after the timeout. If this time period has elapsed the re-activation will be treated as a new session.</li> <li>■ To suppress the response 9 completely, specify "N" in the "give response 9 (Y/N)" field.</li> </ul>

- 7 When you have entered all job parameter settings, press PF5 to save them. If required, additional optional command retry and debug settings can be entered by pressing PF10. The following screen will be displayed:

```

16:38:31                               Job Parameters                               2002-09-09
                                         - Additional -                               U1SCJAM1

                                         Code   Service
                                         ----   -
                                         1     Command Retry
                                         2     Debug Settings
                                         .     Exit
                                         ----   -

Code.....: _

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

```

### Command Retry

```

12:04:32                               Additional Parameters                2002-09-09
                                       Retry Settings                       U1SCJEM1

You may define automatic Adabas call retries for nominated
response codes (and optionally, subcodes).
For more details please press PF1.

Response  Subcode  Retries  Delay (Unit)  Dbid  Fnr  Console
   55      _____  20      15   sec    199  _____  -
_____  _____  _____  _____  _____  _____  _____  -
_____  _____  _____  _____  _____  _____  _____  -
_____  _____  _____  _____  _____  _____  _____  -

                                       PF1 Help   PF3 Exit   PF5 Upd
    
```

You can use this screen to define an automatic retry of Adabas commands that complete with a specified response and subcode. The command will be retried a specified number of times, until a zero response code is received. The calling application will received only the successful response.

Up to five response codes can be specified for a job. You can limit the number of retries to be attempted. You can also restrict the retry attempts to a specific data base and file number. You can specify a time delay between retries.

Enter "Y" in the Console Message column to get an operator message when a retry is attempted (the message is issued once only for each command retry).

In the above example, command retry is to be performed for response code 55, with a limit of 20 retrys, with a delay of 15 seconds between each retry, and retrys are only to be attempted for database 199.

### Command Debug Settings

```

17:02:13                               Additional Parameters                2002-09-09
                                       Debug Settings                       U1SCJBM1

Set debug event for
  Adabas Response Code : ____
  Or mark for any non-0: _
                        Sub-code: ____
  Restrict to dbid: ____
    
```



```

file number: _____

Debug event action:
    Snap off: X
    Snap user memory: _
    Snap all users memory: _
    Mark One

PF1 Help    PF3 Exit    PF5 Upd

```

This feature can be used to assist in diagnosing problems with Adabas commands by generating a memory snap dump.

In the field Set Debug Event, enter values to indicate whether the dump is to be taken for a specific Adabas response code or for all non-zero response codes, whether the dump is to be restricted to a specific subcode, database and/or file number.

In the field Debug Event Action, select whether memory is to be dumped for a single user or for all users.



**Caution:** The Snap All Users Memory option will create a large amount of output and therefore should only be used at the request of Software AG support.

## Maintain a Job Parameter

### ▶ To maintain a job parameter

- Select it by entering one of the following options in column C on the Maintain Job Parameters screen:

d	display
m	modify
p	purge
r	rename
c	copy

Display and modify will provide screens in which you can make modifications to the job parameters. See section Parameters for information on each parameter. For purge, rename, and copy, you are prompted to confirm the action to be taken.

## Maintain Daemon Groups

This section describes how to add/maintain daemon groups.

Adabas System Coordinator daemon groups are used to manage clustered (multiregion or IBM Sysplex) applications.

The daemon group defines the types of applications to be managed and the Node IDs of the daemons (group members) that will manage those applications. One daemon must be active on each operating system image that hosts the application. Any application job can then be defined to this group using the Job Parameters function of SYSCOR, SYSAVI, SYSAFP, or SYSATM Online Services.

- [Main Menu](#)
- [Adding a Daemon Group Definition](#)
- [Maintaining a Daemon Group Definition](#)
- [Defining SYSCO Files](#)

### Main Menu

#### ▶ To invoke the daemon group maintenance menu

- Select service 2 from the Maintenance menu or enter the command 1.2 on a command line.

```
09:20:09 ***** A D A B A S SYSTEM COORDINATOR 7.4.2 (I002) ***** 2004-03-08
          - System Coordinator Groups -                               C11200M1

Job Type:_____

C Group Name   Type      SVC ID   Cluster Facility
_  PRODGRP     Sysplex   234     PRODCLS       0
_  TESTADD     Standard  111     Add           0

Mark with D(isplay),M(odify),P(urge),R(ename),E(xpand),F(iles)

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

The following information is provided on the System Coordinator Groups screen for each group:

Field	Description
C	The following options are available: D: display group definition M: modify group definition P: purge group definition E: expand group definition F: work with group file definitions  Use PF10 to add a new group definition.

## Adding a Daemon Group Definition

### ▶ to add a new daemon group definition

- 1 Press PF10 on the System Coordinator Group menu. The following screen will appear:

```

17:22:22                ***** Add *****                2002-09-09
                        - System Coordinator Group Member -    C11210M1

Job Type: _____

Group Name: _____          SVC ID: _____

System Type: _ Standard (Single-system images)
              (Mark one) _ Standard (Multi-system images)
                       _ Sysplex (IBM Parallel Sysplex)

Cluster Facility Name: _____
Automatic Pool Recovery: Y

Command ==>
                PF1 Help    PF3 Exit    PF5 Add

```

- 2 In the field Group Name, enter the name for the group.

The group name is used to control communication between Adabas System Coordinator daemon peers in an operating system cluster. For example, the daemons communicate using an XCF group with this name in an IBM parallel sysplex. This name must be specified in the job definition for Adabas options such as Adabas Fastpath or Adabas Vista.

- 3 In the field SVC ID, define the router (SVC) number that is used for communicating with the group (not applicable to BS2000 or z/VM systems).

This must be the same in all parts of a cluster.

- 4 In the fields System Type, specify whether the group is to coordinate:
  - A single system image.
  - Multiple system images without dynamic transaction routing. This is used to support coordinator daemons running Adabas Fastpath buffers across multiple system images. It does not support dynamic transaction routing across a Parallel Sysplex.
  - Multiple system images with dynamic transaction routing, using an IBM Parallel Sysplex.

If you select system type "sysplex", you must provide the name of the cluster facility used to record the global client list. In an IBM Parallel Sysplex, this is the name of the cache structure in the coupling facility as defined in the installation process.

- 5 In the field Automatic Pool Recovery, select whether or not automatic pool recovery is to be activated. This feature is recommended in that it ensures that, should a Adabas System Coordinator daemon fail for any reason, existing client session will continue to operate. When the daemon is restarted, it will recover the user pools from the failing daemon.
- 6 If you are running under BS2000, specify the global common memory pool using the additional parameters that appear in the Add System Coordinator Group Member window.

Specify a name, virtual start address, and size for the pool.

The pool you specify is used for allocation of all shared user memory for clustered applications defined to this System Coordinator group.

### Maintaining a Daemon Group Definition

▶ to maintain a daemon group member definition

- 1 On the System Coordinator Group menu, enter 'e' in the C column adjacent to an entry in the Group Name column. The following screen will appear:

```

11:19:05          ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****          2002-09-09
                  - System Coordinator Group Members -                          C11260M1

Job Type:_____

Group Name: PRODGRP          Cluster Facility Name: PRODCLS
SVC ID: 234                  Operating System      : Sysplex

Purge(P)   Member Job Name      Node ID
    
```

```

          SYSC033          33
          SYSC034          34
          SYSC035          35

No records found for selection

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

```

From this screen, you can

- purge a member by entering 'p' in the Purge column adjacent to the Member Job Name entry;
  - update the member entry by pressing PF5; or
  - add a new member entry by pressing either PF5 or PF10.
- 2 If you are adding a new group, you must add at least one member.

For each member, specify the following:

- Member Job Name: The name of the job or started task that will run the Adabas System Coordinator daemon (SYSCO).
- Node ID: The Adabas Node ID (target) used to identify the daemon to the network.

## Defining SYSCO Files

A System Coordinator group provides a central file-store facility that can be used by Adabas options such as the Adabas Transaction Manager. If an Adabas option requires a SYSCO file to be defined, its documentation will give details of the requirement.

A SYSCO file is a logical collection of records which are stored in an Adabas file. The file can be defined on any Adabas database. A database that contains a system file for job parameters will probably be a suitable location for your SYSCO file, since high availability is likely to be a requirement. A single database file can contain just one SYSCO file.

### ▶ to add a new SYSCO file definition for a daemon group

- 1 To create a database file for use as a SYSCO file, run a standard ADALOD job, using input from the distribution tape. Sample job CORI050F can be edited according to site requirements, and used for this purpose.

- 2 On the System Coordinator Group menu, once you have defined your System Coordinator group, enter 'f' in the C column adjacent to the appropriate entry in the Group Name column. The following screen will appear:

```
10:02:10 ***** A D A B A S SYSTEM COORDINATOR 7.4.2 (I002) ***** 2004-03-08
          - System Coordinator File Definitions - C11270M1

Runmode: Local Session: Local

Group Name: CORGROUP

C  File Name  DB ID  Fnr  Description

Mark with D(isplay),M(odify),P(urge)
No records found for selection

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

- 3 Press PF10 to add a SYSCO file definition for this group. The following window will appear:

```
10:05:23 Add File Definition 2004-03-08
          C11270M2

Group Name: CORGROUP

File Name: _____ DB ID: _____ File Number: _____ SVC:

Description:

Press PF5 to confirm

Command ==>
          PF1 Help      PF3 Exit      PF5 Add
```

- 4 Enter values for the following parameters for the SYSCO file:

Parameter	Description
File Name	The logical name of the SYSCO file. This name identifies the ownership and purpose of the SYSCO file. Therefore it must exactly match the name given in the documentation of the Adabas option that requires this file.
DB ID	The ID of the database that contains the SYSCO file.
File Number	The number of the SYSCO file.
SVC	The number of the Adabas SVC that is used by the database which contains the SYSCO file. This parameter is only needed for z/OS and VSE systems.
Description	Free-format text describing the SYSCO file.

- 5 When you have entered the parameter settings, press PF5 to save them.
- 6 The SYSCO file is now ready for use. You might need to restart any software component that will rely on the newly defined file.

► to maintain a SYSCO file definition

- 1 On the System Coordinator Group menu, enter 'f' in the C column adjacent to an entry in the Group Name column. The following screen will appear:

```

10:22:02      ***** A D A B A S SYSTEM COORDINATOR 7.4.2 (I002) *****
2004-03-08
                - System Coordinator File Definitions -                      C11270M1

Runmode: Local                               Session: Local

Group Name: CORGROUP

C   File Name  DB ID   Fnr    Description
_   ATMMTR     135    175    ATM MIGRATED TRANSACTION RECOR <== End of List

Mark with D(isplay),M(odify),P(urge)

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

```

From this screen, you can

- display a file definition by entering 'd' in the C column adjacent to the File Name entry;
- modify a file definition by entering 'm' in the C column adjacent to the File Name entry;

- purge a file definition by entering 'p' in the C column adjacent to the File Name entry;
  - add a new file definition by pressing PF10.
- 2 If you choose to display or modify a file definition, you will see a window of the same format as when you first defined the file. If you are modifying the definition, you must press PF5 after making your changes, to save them.



# 5 Session Monitoring

---

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The Session Monitoring function can be used to obtain information and statistics on all applications being managed by the Adabas System Coordinator.

## Session Monitoring Menu

▶ **To display the Session Monitoring menu**

- Select service 2 from the main menu.

```

17:57:50      ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****      2002-09-09
              - Session Monitoring -                                C12000M1

Runmode: Local                                     Session: Local

              Code      Service
              ----      -
              0      Change Information Source
              1      Daemon Group Members
              2      Adabas Client Jobs
              3      Memory Pool Statistics
              4      General Statistics
              5      Network Display
              .      Exit
              ----      -
Code .. _

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

From this menu, you can	Service	Cmd
<a href="#">change the information source to be used</a>	0	2.0
<a href="#">display daemon group members</a>	1	2.1
<a href="#">display active jobs</a>	2	2.2
<a href="#">display memory pool statistics</a>	3	2.3
<a href="#">display general statistics</a>	4	2.4
<a href="#">display network information</a>	5	2.5

All session monitoring requests will be directed to the current information source as displayed in the Session field at the top of the screen. By default this will be either your local client session when you are running in Local (non-daemon) mode. If you are running in daemon mode, monitoring requests will be directed to your coordinator daemon.

## Change Information Source

This option can be used to route monitoring requests to any active coordinator daemon (see screen below).

### ▶ To access the Change Information Source screen from the Session Monitoring menu

- Select service 0 or enter the command 0.1 on a command line.

```
18:17:06          Change Current Information Source          2002-09-09
                                                         C12000M2

You may change the Daemon being used for monitoring
  (as shown by the Session field).

Enter the required Daemon node id: 0

Or 0 to return to your default
Or press PF3 to leave it unchanged

Command ==>
                PF3 Exit
```

## Display Daemon Group Members

▶ To display the daemon group members screen from the Session Monitoring menu

- Select service 1 or enter the command 2.1 on a command line.

```

11:50:41          ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****          2002-09-09
                  - Display Daemon Group Members -                               C12100M1

Coordinator Name      Node      System      Start Time      <-----Cluster Moves----->
                   (HH:MM:SS)      Users      Total      Ave.Size
SYSC033              33      ABCD      11:40.36      3      0      0
SYSC034              34      EFGH      11:40.46      0      0      0

End of List

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

The screen shows the daemons that are active in the coordinator group. A coordinator daemon node must be specified for this option because node information is kept in the daemon, not in the local client.

The following information is provided:

Field	Description
Coordinator Name	The name and job number of the coordinator daemon task.
Node	The Adabas Node ID of the coordinator daemon.
System	The operating system ID.
Start Time	The start time of the coordinator daemon.
Users	The number of users currently managed by this coordinator daemon.
Cluster Moves	The number of client sessions that have been routed dynamically to this system, and the average session message size per move. This field is only relevant for clustered applications in a multisystem environment.

## Display Active Jobs

### ▶ To display the Active Jobs screen from the Session Monitoring menu

- Select service 2 or enter the command 2.2 on a command line.

```

18:25:36          ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****          2002-09-09
                  - Display Active Jobs -                                     C12200M1

Runmode: Local                                           Session: Daemon / 36

                                Start Time           Maximum
C Service   Job Name   Job Num.   Appl.ID   (HH:MM.SS) Users Concurrent
_ C1CSP00L  C1CSP001   C12218    C1CSAP1   11:40:36   23         1
_ C1CSP00L  C1CSP002   C12219    C1CSAP2   11:42:45   23         1

Mark with D(etail),S(nap),M(emory Pools),U(sers)
End of List

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

```

This screen shows the TP monitors and other tasks that are currently active and managed by Adabas System Coordinator. The following fields are displayed:

Field	Description
C	This field can be used to display additional information: <ul style="list-style-type: none"> <li>■ M: display memory pools</li> <li>■ U: display user information</li> </ul>
Service	The clustered application service name (if any) used by this job.
Job ... Appl. ID	The job name, job number, and Application ID
Start Time	The start time of the job.
Users	The number of user sessions active in the job.
Maximum Concurrent	The number of concurrent threads active. This is a measure of the highest level of concurrent Adabas command throughput..

### Display Memory Pools

Selecting Memory Pool Statistics results in the following screen being displayed:

```

12:06:17          ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****          2002-09-09
                  - Display Memory Pool Information -                          C12400M1

C Node  Job Name  Pool Name  Extents  Pool      Free      Free
         36  CICSP001  F7408320   0        256      251.5    32
         36  CICSP002  F7408320   0        256      251.5    32
         36  CICSP001  PRIVATE    0        256      209.6    10
         36  CICSP002  PRIVATE    0        256      209.6    10
         36  CICSP001  PRODCICS   0         50       47.1     1
         36  CICSP001  PRODCICS   0         50       47.1     1
         36  CICSP001  PRODCICS   0         50       47.1     1

Mark with D(etail), S(nap)
End of List

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

This screen shows the memory pools that are used by jobs. The following information is provided:

Field	Description
Pool Name	The PRIVATE pool is allocated in the job's private memory.  Shared memory pools are always managed by a coordinator daemon.  Fixed pools are named <i>Fvrnnnnn</i> where <i>vr</i> is the product version and revision level and <i>nnnnn</i> is the pool element size.
Extents	The number of extents. Performance may be improved by tuning job parameters to eliminate extents.
Free Memory	The amount of free memory available in all extents in the pool.
Free Elements	The number of free elements in the pool.
Type	Pool type.  O: The job created and owns the pool P: The job has joined a pool that was created by a previous job

## Display User Information

See next section [Display User Information](#).

## Display User Information

Selecting Display User Information results in the following screen being displayed:

```

12:06:17          ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****          2002-09-09
                  - Display User Information -                               C12230M1

Runmode          : Local                               Session: Daemon / 36
Select Users:    _____

                Dormant   Memory(k)  Adabas   Quick
                (HHH:MM.SS) Allocated   Ccmds   Locates Typ
C Service Job Name User ID  Txn
_ CICSPool CICSP001 CICSTC01 N315   0:00.09   0.3     009     003   S
_          CICSTC04 N315   0:00.01   2.0     308     255   S
_          CICSTC03 N315   0:00.33   0.3     367     315   S
_          CICSTC04 N315   0:00.01  19.6    4097    1211  S
_          CICSTC05 *timeout 3:14.18   0.3     57      41   S
_          CICSTC06 N315   0:00.09   0.3     57      41   S

Mark with D(etail),S(nap),P(urge)
Top of List

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help      Exit  Refr SortN          SortT SortU SortO Menu

```

This screen shows the users that are active in a job managed by the Adabas System Coordinator. The following information is provided:

Field	Description
User ID	The User ID (last 8 characters only). IDs comprised of special characters are normally generated by the system.
Txn	The current or last Transaction ID executed (TP systems only). The value '*timeout' indicates that the inactivity threshold has been reached for this client session.
Dormant	The amount of time since the last user activity.
Memory	The amount of memory allocated by the user.
Adabas Ccmds	The number of Adabas commands executed for this user.

Field	Description
Quick Locate	The number of times the coordinator optimized command processing because two or more commands for the same user were executed consecutively.
Type	Indicates whether or not the user is managed by an Adabas System Coordinator daemon. A value of 'S' indicates that the user is managed by a Adabas System Coordinator daemon.

PF keys can be used to sort the user list in various sequences:

Key	Description
PF5 (SortN)	The list is sorted by User ID.
PF9 (SortT)	The list is sorted in descending time since the user was last active.
PF10 (SortU)	The list is sorted in descending order of the number of Adabas calls issued.
PF11 (SortO)	The list is sorted in descending order of user search optimization. This shows the number of times for each user that an index search was avoided.

## Display General Statistics

▶ To display the **General (Cache) Statistics** screen from the **Session Monitoring** menu

- Select service 4 or enter the command 4.1 on a command line.

```

11:50:41      ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****      2002-09-09
                - Display Cache Statistics - Summary -                      C12500M1

Node ID: 36

Detail                               Detail
Page                                 Page

 1 CSCSREADHITC.....: 2          4 CSCSXINMINVALC.....: 0
 . CSCSRMDIRHITC.....: 2          . CSCSXICMINVALC.....: 0
 . CSCSCASTPITCC.....: 2          5 CSCSCASTOUTC.....: 0
 . CSCSREFSIGMISSC.....: 2          . CSCSREFSIGMISSC.....: 0
 . CSCSTMCFULLCLC.....: 2          . CSCSTMCFULLC.....: 0
 2 CSCSDIRENTRYC.....: 2          . CSCSDIRENTRYC.....: 0
 . CSCSWRITCB1C.....: 2          6 CSCSDATAREAELEC.....: 0

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



This screen displays the IBM sysplex coupling facility cache memory statistics. The definition of each statistical value is provided on a series of detailed screens, together with a repetition of the value.

Use PF11 to display a series of detail screens. Use PF10 to return to the last screen. You can then use the same PF keys to proceed forward or backward to the desired screen.

Cache statistics are valid only if the coordinator group is defined as type "Sysplex".

## Display Network Information

### ▶ To display the Network screen from the Session Monitoring menu

- Select service 5 or enter the command 5.1 on a command line.

```

11:50:41      ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****      2002-09-09
                - Network Display -                                     C12600M1

Coordinator Node in view: 36                      Local Coordinator: 36
Coord L Last Update Status

Node R (HH:MM.SS)  Upds  DBID  Nuc ID  Type                A S P F Resp
 36 L 11:40:47      2    37    37    System Coord        A S - -
                    180   1801   Ada Cluster(L)      A S P -
                    180   1802   Ada Cluster(L)      A S P -
                    36    36    System Coord        A S - -
                    199   199   Adabas              A - p -
                    151   151   Unidentified        A - - F 245
                    37    37    System Coord        A S - -
 37 R 11:40:47      1    180   1801   Ada Cluster(L)      A S P -
                    180   1802   Ada Cluster(L)      A S P -
                    36    36    System Coord        A S - -

End of List

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

```

Each Adabas System Coordinator daemon maintains a list of targets that are or were at one time active. This information is communicated to all daemons in the cluster.

This screen displays the network information of each daemon.



# 6 Special Services

---

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## Special Services Menu

▶ **To display the Special Services menu**

- Select service 3 from the main menu.

The following menu will appear:

```

12:30:46      ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****      2002-09-09
                - Special Services -                                C13000M1

                Code      Service
                ----      -
                1      Verify System Coordinator Client
                2      Verify System Coordinator Daemon
                3      Fix Display
                4      Timeout Settings for Current Job
                .      Exit
                ----      -
                Code .. _

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

From this menu, you can	Service	Cmd
<b>verify Adabas System Coordinator client installation</b>	1	3.1
<b>verify Adabas System Coordinator daemon installation</b>	2	3.2
<b>display fixes (zaps) which have been applied</b>	3	3.3
<b>display/modify timeout settings</b>	4	3.4

## Verify Adabas System Coordinator Client Installation

This function can be used to verify the successful installation of an Adabas System Coordinator client.

## Verify Adabas System Coordinator Daemon Installation

This function can be used to verify the successful installation of an Adabas System Coordinator daemon.

## Display Fix Information

### ▶ To display the ZAP Information

- Select option 3 from Special Services menu.

```

12:38:25      ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****      2002-09-09
                - Display Zap IDs (CORIDnnn) -                          C13400M1

Version: 7.4.2 Eyecatcher: COR Last Assembly Date: 09/03/02

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

Zap Number detail: ____ Node/Database ID: ____

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF9--PF10--PF11--PF12
                Exit                                CInt Dbid Sysco Allz Menu

```

Initially the screen will show all zaps applied to the Adabas System Coordinator kernel (CORKRN) and the Clustered Application Service kernel (CASKRN) in the client environment.

Use PF9 to display zaps applied to the coordinator database component, and PF10 to display zaps applied to the coordinator daemon component (SYSCO). For both of these you must also enter the DBID of the required target in the Node/Database ID field.

Note that PF9 and PF10 display just the zaps applied to the selected component (ADAPOP, Coordinator, etc). The Adabas System Coordinator kernel (CORKRN) is used in all environments (client, daemon, database). Use PF11 to include CORKRN zaps from the selected environment in the display.

## Timeout Settings

---

▶ To display timeout settings

- Select option 4 from Special Services menu.

```
12:38:25      ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****      2002-09-09
              - Modify Current Job Inactivity Timeout Settings -      C13700M1

Inactivity Timeout Limit - Terminal Users...: 3600_____ S (S/M/H/D)
Inactivity Timeout Limit - Background Users: _____

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

You can use this screen to change dynamically the timeout settings for the current job. This function can only be used when you are running SYSCOR in the system for which you want to change timeout settings.

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