software AG

Adabas System Coordinator

Adabas System Coordinator Online Services

Version 8.2.2

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Adabas System Coordinator

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1 Adabas System Coordinator Online Services

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**
- **Current Activity Displays**
- **Special Services**

2 Using Adabas System Coordinator Online Services

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 (node 0)	The TP system in use is running in local (non-daemon) mode. By default, session information will be obtained locally.
Daemon (node *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. Dynamic transaction routing (DTR) is possible for clustered applications in TP systems defined to run in daemon mode.
Pulsing (node *nnn*)	The TP system in use has been configured to send session activity statistics to the daemon Node ID displayed. By default, session information will be obtained from the daemon and can be viewed from any other TP system by setting the perspective to the daemon Node ID displayed. DTR is not possible for TP systems defined to run in pulsing mode.
Startup	The Adabas link module contains the Coordinator stub, however the database containing the Coordinator configuration file is not yet available. The Coordinator periodically retries access to the configuration file until it becomes available.

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:

```
  17:31:56     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2011-12-03
                           -  Main Menu  -                          C1MAINM1
Run-mode: Pulsing (node 2650)


                Code     Service
                ----     ------------------------
                 0       System Settings
                 1       Maintenance
                 2       Current Activity Displays
                 3       Special Services
                 4       About System Coordinator
                 .       Exit
                ----     ------------------------
        Code..: _




You can easily switch around the tools for Fastpath, Vista etc by use of
PF11, 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                                            Prods Vers
```

The following options are available:

Option	Description
System Settings	Maintain configuration file setting.
Maintenance	Define and maintain definitions and parameters.
Current Activity Displays	Display information about the current session and other sessions in this TP system or, when using a daemon, other sessions anywhere in the entire enterprise.
Special Services	Provide installation and applied fix information for the Adabas System Coordinator components, and define timeout settings.
About Adabas System Coordinator	Display product information.

> **Note:** From the Adabas System Coordinator main menu, you may switch to the online systems of Adabas Fastpath, Adabas Vista, Adabas SAF Security or Adabas Transaction Manager by pressing PF11. PF11 cycles in the sequence System Coordinator to Transaction Manager to Fastpath to Vista to SAF Security. You may also switch from any screen with a command line by entering the appropriate three-character code (for example, AVI for Adabas Vista) as a command. You may only switch to the same version of another online system.

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 Client Runtime Controls 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
	Client Runtime Controls	1.1
	Daemon Groups	1.2
Current Activity Displays	Menu	2
	Display Adabas Client Jobs	2.1
	Network Discovery	2.2
	Display Daemons in a Daemon Group	2.3
Special Services	Menu	3
	Verify System Coordinator Client Installation	3.1
	Verify System Coordinator Server Installation	3.2
	Display Applied Fixes (Zaps)	3.3

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

This function is used to maintain Adabas System Coordinator system settings.

System Settings Menu

▶ **To display the System Settings menu**

■ Select service 0 from the main menu.

```
17:06:12     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2011-04-13
                      -  System Settings  -                        C10000M1
Run-mode: Local (node 0)

                 Code    Service
                 ----    --------------------
                 1       LFILE 152 Maintenance
                 2       SAF Security Settings
                 .       Exit
                 ----    --------------------
          Code..: _




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

Select option 1 to view or modify the current configuration file.

Select option 2 to view or modify the SAF Security settings for SYSCOR when using this configuration file.

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.

```
17:06:12      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2011-04-13
                        -  System Settings  -                         C10000M1
Run-m +-------------------------------------------------------------------+
      | 17:08:36              LFILE 152 Maintenance            2011-04-13  |
      |                                                       U1LFILM2      |
      |                                                                     |
      | Current Settings for LFILE 152:                                     |
      |                                                                     |
      | Original LFILE = ( 152 , 640   ,   190   )                          |
      |  Current LFILE = ( 152 , 640__ ,   190__ )                          |
      |                   (effective only for this Natural session)         |
      |                                                                     |
      | Default pop-up settings:                                            |
      | Do you want to see this window again ?                              |
      |                         - for the current SYSCOR session... N       |
      |                         - for future SYSCOR sessions....... N       |
      |                                                                     |
      |             PF3 Exit      PF5 Update/Confirm                        |
      |                                                                     |
      +-------------------------------------------------------------------+

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

2   The LFILE 152 Maintenance window appears.

3   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.

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.

4   These values were allocated to LFILE 152 using the static Natural parameter NTLFILE 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.

5   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.

6   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.

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

SAF Security Settings

▶ **To customize SAF Security settings:**

1   Select service 2 from System Settings menu or enter the command 0.2 on a command line.

```
 17:12:02     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2011-04-13
                        -  Main Menu  -                            C1MAINM1
 Run-m +-------------------------------------------------------------------+
       |  17:12:05            SAF Security Settings           2011-04-13  |
       |                                                        U1SAFSM1   |
       |                                                                   |
       |  Protect SYSCOR with SAF Security: N (Y/N)                        |
       |  System Coordinator Daemon Group : _____                       |
       |                                                                   |
       |  Action if no daemon available (mark one):                        |
       |          Disallow all functions: _                                |
       |        Allow read functions only: _                               |
       |             Allow all functions: _                                |
       |                                                                   |
       |                                                                   |
       |                                                                   |
       |                                                                   |
       |                    PF3 Exit      PF5 Update/Confirm               |
 You c |                                                                   |
 PF11, +-------------------------------------------------------------------+

 Command ==> 0.2
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help       Exit                                          Prods Vers  ↵
```

2   The SAF Security Settings screen appears.

3   By default, "Protect SYSCOR with SAF Security" appears as N. To activate SAF protection
     for SYSCOR:

     ▪ Set "Protect SYSCOR with SAF Security" to Y

■ Specify the name of the System Coordinator group that contains the daemon configured for Adabas SAF Security. The group and daemon must already be defined (see the Adabas System Coordinator documentation section Maintain Daemon Groups).

■ Select the desired behavior when no daemon is available or the security service in the daemon is not available:

  ■ Disallow all functions:

    SYSCOR cannot be used until the daemon security service is available

  ■ Allow read functions only:

    SYSCOR activity displays can be used, but functions that require update access, such as server restart, are not allowed.

  ■ Allow all functions:

    SYSCOR can be used without restriction.

4 You must restrict who has update access to COR.SETTINGS. Anyone with update access can deactivate SAF security checking, or switch to a configuration file with no SAF security settings

5 In an emergency (for example, wrong security definitions or the daemon is unexpectedly unavailable and you selected "Disallow all functions"), you can sign on to Natural as user DBA and set "Protect SYSCOR with SAF Security" to N until the emergency has passed. Security checking of SAF Security Settings is bypassed for user DBA. Obviously you should restrict access to user DBA.

4   Maintenance

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.

```
17:36:58     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2011-12-03
                     -  Maintenance  -                              C11000M1
Run-mode: Pulsing (node 2650)


               Code    Service
               ----    -----------------------
                1      Client Runtime Controls
                2      Daemon Group Parameters
                .      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
maintain client runtime controls	1	1.1
maintain daemon group parameter values	2	1.2

Maintain Client Runtime Controls

This function is used to define/maintain runtime controls for jobs that use Adabas System Coordinator services and any of the client-based products that depend on Adabas System Coordinator: Adabas Fastpath, Adabas Transaction Manager and Adabas Vista.

Runtime controls determine the operational behaviour of these products in a given job. You can adjust this behaviour on a case-by-case basis by specifying overrides to tailor operation for a particular transaction code (TP systems), stepname (batch jobs) or login id. You can also define a special type of API runtime control, for completely dynamic reconfiguration.

> **Note:** See section Parameters for a complete description of all runtime controls.

> **Note:** Runtime controls are shared between all installed optional products, and can be defined by any of the administration applications (SYSCOR, SYSAVI, SYSAFP, SYSATM). You can administer the runtime controls of any product from any application.

- List Runtime Controls
- Add a Runtime Control
- Maintain Runtime Controls

List Runtime Controls

▶ **To display a list of existing definitions**

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

```
 18:08:21     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2011-12-03
                      -  Client Runtime Controls (COR)  -          U11300M1
 Run-mode: Pulsing (node 2650)                       Reposition to Type: _____
                                                                   Name: _____
                              Client Controls
 C Type          Name        AFP  AVI  ATM  COR         Comments
 _ CICS (DTR)    CICCLUST     Y    Y    Y    Y           Overrides,Info
 _ Batch         CORP****     Y    Y    Y    Y
 _               *DEFAULT     Y    Y    Y    Y
 _               CORQ0100     Y    Y         Y
 _               CORQ0200    Off   Y    Y    Y
 _ COM-PLETE     DAEFCODE     Y    Y    Y    Y
 _ TSO           *DEFAULT     Y    Y    Y    Y




 Mark with Jobs,Modify,Purge,Rename,Copy,Overrides,Information,History
 End of List
  Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help         Exit  Refr                                Add    Prods Menu
```

2   The list shows the service or job type, the name and for which products controls are defined. The Comments column shows whether overrides or site information are defined for this service/job.

3   The name identifies the service or job to which these controls apply. A service is a collection of jobs which form a single DTR cluster, for example CICSPlex, CICS/MRO with Dynamic Transaction Routing, IMS TM or UTM. For jobs, the name may be a wildcard or you can specify a set of default controls for jobs of that type.

4   Taking the above example:

■ any batch job with a name beginning CORP will use the controls defined for CORP****

■ job CORQ0100 will use its own controls (but it will use the Adabas Transaction Manager controls defined for *DEFAULT, because there are none defined for CORQ0100)

■ job CORQ0200 will use its own controls and Adabas Fastpath is disabled for this job

■ any other batch job will use the controls defined for *DEFAULT

5   If you wish to display or modify controls or overrides for one of the other products, press PF11 until the required product appears in the screen title and message line:

```
18:10:27     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****    2011-12-03
                    -  Client Runtime Controls (AFP)  -          U11300M1
Run-mode: Pulsing (node 2650)                    Reposition to Type: _____
                                                            Name: _____
                              Client Controls
C Type           Name         AFP  AVI  ATM  COR          Comments
_ CICS (DTR)     CICCLUST      Y    Y    Y    Y            Overrides,Info
_ Batch          CORP****      Y    Y    Y    Y
_                *DEFAULT      Y    Y    Y    Y
_                CORQ0100      Y    Y         Y
_                CORQ0200     Off   Y    Y    Y
_ COM-PLETE      DAEFCODE      Y    Y    Y    Y
_ TSO            *DEFAULT      Y    Y    Y    Y




 Mark with Jobs,Modify,Purge,Rename,Copy,Overrides,Information,History
Now maintaining Adabas Fastpath runtime controls
 Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help        Exit  Refr                                Add   Prods Menu
```

6   If there is more than a screen of definitions, use PF7 and PF8 to scroll up and down, m and PF7
     and m and PF8 to go to the top or bottom of the list, or use the Reposition field to position
     anywhere within the list.

Add a Runtime Control

▶ To add a new definition

1   Press PF10 from the Client Runtime Controls list.

     The following window will appear:

```
18:16:44      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2011-12-03
                     -  Add Client Runtime Control  -              U11310M1
 Run-mode: Pulsing (node 2650)


 Select (mark one) :
                             _ Batch
                             _ COM-PLETE
                             _ CICS (DTR - Dynamic transaction routing)
                             _ CICS (Standard)
                             _ IMS (DTR)
                             _ UTM (DTR)
                             _ TSO
                             _ CMS
                             _ TIAM
                             _ more choices for type or

                             _ API controlled - type 1
                             _ API controlled - type 2




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

2   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 (Standard)" if CICS/MRO is to be used without dynamic
> transaction routing or for other CICS environments. Select the job type "CICS (DTR –
> Dynamic Transaction Routing)" if CICS/MRO is to be used with dynamic transaction
> routing.

If you mark the selection "more choices for type", another selection window will appear with
additional job types. If you need to use any of these, contact Software AG for advice.

If you mark either of the API controlled types, you can define a set of runtime controls which
can be activated dynamically by API. You must enable API overrides for any job where you
want to use this API definition and name it in the job's list of permissible APIs.

> **Note:** Dynamically activated API runtime controls are not yet available.

3   After selecting a job type, press Enter. In the following example, the job type "CICS (DTR –
Dynamic Transaction Routing)" was selected which results in the following screen being
displayed:

```
18:17:29      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2011-12-03
                      -  Add Client Runtime Control  -              U11310M4
Run-mode: Pulsing (node 2650)


         Type: CICS (DTR)
         Name: _____



This is a complex type of runtime which is capable of running in basic mode
and in DTR mode.

You must define a System Coordinator group (and its daemons) with PRODUCT=DTR
AND the daemon(s) in that group must be executing in order to achieve DTR
capability, otherwise it is ignored.

The name specified above is a unique name for the runtime controls for the
DTR service (it is not a jobname). You must also use the 'Expand' line
command to enter the list of all jobs in the service.




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

4   Enter the service name (which may not contain * wildcards, in this example CICSPROD was
     entered) and press PF5 to continue:

```
    10:49:46     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2012-03-13
                   -  System Coordinator Runtime Controls  -         U11310M5
    Run-mode: Pulsing (node 2650)
    Type: CICS (DTR)   Name: CICSPROD
      Operation: Normal autodetect: X Enable without products: _ Disable all: _
      API runtime overrides....: N (Y/N)    Threadsafe operation...: Y (Y/N)
      Use additional exits.....: N (Y/N)
      Maximum idle time (sec)..: 3600_____ Non-terminal idle time.: _____
      Generate RSP009/79 (Y/N).: Y (until 0_____ seconds elapse)
      Messages - Local.........: Console Y and/or DDMSG file _
           Or - Daemon routing: _
      Latency - Local (Y/N)....: N

      Latency - Daemon (Y/N)...: Y
               to disk........: N
      Activity pulse every.....: _____ commands or _____ seconds
      Group name...............: _____




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

5   The screen is pre-filled with default values for this control type. Please refer to the Parameters
     section for a description of each parameter. DTR jobs require a System Coordinator Group
     name. Enter that now or press PF5 which will set the group name, if only one group is defined,
     or give you a list of defined groups to choose from, if more than one group is defined.

```
 10:50:27    ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2012-03-13
                - System Coordinator Runtime Controls  -         U11310M5
Run-mode: Pulsing (node 2650)
Type: CICS (DTR)   Name: CICSPROD
  Operation: Normal autodetect: X Enable without products: _ Disable all: _
  API runtime overrides....: N (Y/N)    Threadsafe operation...: Y (Y/N)
  Use additional exits.....: N (Y/N)
  Maximum idle time (sec)..: 3600_____ Non-terminal idle time.: _____
  Generate RSP009/79 (Y/N).: Y (until 0_____ seconds elapse)
  Messages - Local.........: Console Y and/or DDMSG file _
       Or - Daemon routing: _
  Latency - Local (Y/N)....: N

  Latency - Daemon (Y/N)...: Y
          to disk........: N
  Activity pulse every.....: _____ commands or _____ seconds
  Group name...............: DEMO82__



Fields Modified - Use PF5 to Update or PF3 to Exit
 Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help        Exit        Add                                 Menu   ↵
```

6   Press PF5 again to add the control.

```
   10:51:20     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2012-03-13
                  -  System Coordinator Runtime Controls  -          U11310M5
 Run-mode: Pulsing (node 2650)
 Type: CICS (DTR)   Name: CICSPROD
   Operation: Normal autodetect: X Enable without products: _ Disable all: _
   API runtime overrides....: N (Y/N)    Threadsafe operation...: Y (Y/N)
   Use additional exits.....: N (Y/N)
   Maximum idle time (sec)..: 3600_____ Non-terminal idle time.: _____
   Generate RSP009/79 (Y/N).: Y (until 0_____ seconds elapse)
   Messages - Local.........: Console Y and/or DDMSG file _
        Or - Daemon routing: _
   Latency - Local (Y/N)....: N

   Latency - Daemon (Y/N)...: Y
           to disk........: N
   Activity pulse every.....: _____ commands or _____ seconds
   Group name...............: DEMO82__




 Parameter ADDED
  Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help       Exit      Upd                      More  API        Menu  ←
```

You can now:

- Modify the values and press PF5 to update them

- Press PF3 to return to the list

- Press PF12 to return to the main menu

- Press PF10 to define permissible API controls (these will only be honoured if you also set API runtime overrides to Y). Enter the names of up to 64 API controls, which must already be defined, and press PF5

```
18:21:32     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2011-12-03
                 -  System Coordinator Runtime Controls  -          U11310M6
Run-mode: Pulsing (node 2650)
Type: CICS (DTR)
Name: CICSPROD


The following API runtime overrides are allowed:


_____  _____  _____  _____  _____  _____  _____  _____
_____  _____  _____  _____  _____  _____  _____  _____
_____  _____  _____  _____  _____  _____  _____  _____
_____  _____  _____  _____  _____  _____  _____  _____
_____  _____  _____  _____  _____  _____  _____  _____
_____  _____  _____  _____  _____  _____  _____  _____
_____  _____  _____  _____  _____  _____  _____  _____
_____  _____  _____  _____  _____  _____  _____  _____
_____  _____  _____  _____  _____  _____  _____  _____




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

■ Press PF9 to define additional options and select option 1 to define command retry require-
  ments, option 2 to define debug settings or option 3 to define unified trace settings:

```
+------------------------------------------------------------+
|  18:23:28          Runtime Controls         2011-12-03     |
|                    -  Additional  -         U1SCJAM1       |
|                                                            |
|               Code     Service                             |
|               ----     --------------------                |
|                1       Command Retry                       |
|                2       Debug Settings                      |
|                3       Unified Trace Settings              |
|                .       Exit                                |
|               ----     --------------------                |
|       Code....: _                                          |
|                                                            |
|   Command ==>                                              |
|         PF1 Help    PF3 Exit    PF12 Menu                  |
|                                                            |
|                                                            |
+------------------------------------------------------------+
```

■ For command retry, you can define automatic retry of Adabas commands that complete
  with particular response codes and subcodes. Specify the number of retry attempts and

interval. You can also restrict the retry to particular databases or files and request an informational operator message on the first retry attempt. As soon as response 0 is received, control returns to the application. Press PF5 to save the retry settings.

```
+----------------------------------------------------------------------+
! 10:51:44            Additional Runtime Controls        2006-07-21  !
!                          Retry Settings                 U1SCJEM1    !
!                                                          Console    !
! Response  Subcode   Retries   Delay (Unit)    Dbid    Fnr  Message  !
!  148__     _____      60___    5____   SEC    _____  _____     _    !
!  255__     _____      30___    1____   SEC    _____  _____     _    !
!  48___     _____      5____    60___   SEC    153__  _____     Y    !
!  _____     _____      _____    _____   ___    _____  _____     _    !
!  _____     _____      _____    _____   ___    _____  _____     _    !
!  _____     _____      _____    _____   ___    _____  _____     _    !
!  _____     _____      _____    _____   ___    _____  _____     _    !
!  _____     _____      _____    _____   ___    _____  _____     _    !
!  _____     _____      _____    _____   ___    _____  _____     _    !
!  _____     _____      _____    _____   ___    _____  _____     _    !
!  _____     _____      _____    _____   ___    _____  _____     _    !
!  _____     _____      _____    _____   ___    _____  _____     _    !
!  _____     _____      _____    _____   ___    _____  _____     _    !
!  _____     _____      _____    _____   ___    _____  _____     _    !
!  _____     _____      _____    _____   ___    _____  _____     _    !
! Use Before/After exits: N (Y/N)    Use additional exits: N (Y/N)   !
!          PF1 Help        PF3 Exit       PF5 Upd                    !
!                                                                    !
+----------------------------------------------------------------------+
```

■ Use debug settings to produce diagnostic snaps for unexpected Adabas response codes. For more information, please refer to Using the Client Event Debug Monitor .

```
17:49:17      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2010-12-15
                   -  Debug Event Monitor Controls  -              U1SCJBM1

 Debug all sessions (Y/N) .......: Y     Maximum debug reports ......: _____
      Response code: ___ Sub-code : _____ or mark for generic monitor : _
      Optionally for database ....: _____ and file number .............: _____
    Additional debug monitor (Y/N), use only as directed by Software AG:
      System Coordinator .........: N    Adabas Transaction Manager .: N
      Adabas Fastpath ............: N    Adabas Vista ...............: N

    Report content in order of output amount, mark one:
      None .......................: X     Client session only ...........: _
      All sessions for the client : _     All sessions for the job ......: _
      All memory for the job .....: _
    Additional report content (Y/N):
      CIB ...............: Y   CAB ..............: Y   ID table .........: Y
      Registers on entry : Y   TP areas .........: Y   Stack ............: Y




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

- Use unified trace settings to define trace requirements for this client job:

  1. Size of in-memory trace buffer.

  2. Trace collection; local trace file is only available for batch-type jobs and forward to the daemon trace file is only available for jobs defined to use a daemon

  3. Adabas response code and sub-code that cause trace data to be written and whether or not generic errors trigger tracing

  4. Whether or not to trigger a debug event on response code trace activation

```
  18:25:48     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2011-12-03
                     -  Unified Trace Settings  -                      U1SCTRM1
                                                                            ↵

  Trace size (KB): 0_ (no tracing = 0; maximum = 32)                        ↵


                                                                            ↵

  Trace collection (mark one)                                               ↵

    No collection.......................: X                                 ↵

    In memory only......................: _                                 ↵

    Local trace file....................:                                   ↵

    Forward to the daemon trace file....: _                                 ↵


                                                                            ↵

  Dynamic options                                                           ↵

    Limited debug trace:                                                    ↵

      Response code trace activation....: 0__                               ↵

      Sub-code..........................: 0____                             ↵

      Generic error response codes (Y/N): N                                 ↵

      Debug event activation (Y/N)......: N                                 ↵


                                                                            ↵


                                                                            ↵


                                                                            ↵


                                                                            ↵

  Command ==>                                                               ↵

 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help        Exit        Upd                                         ↵
```

7   Here is an example of adding controls for a batch job. Press PF10 from the list, mark Batch and press Enter to continue:

```
18:33:14     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2011-12-03
                  -  Add Client Runtime Control  -              U11310M1
Run-mode: Pulsing (node 2650)

Select (mark one) :
                          x Batch
                          _ COM-PLETE
                          _ CICS (DTR - Dynamic transaction routing)
                          _ CICS (Standard)
                          _ IMS (DTR)
                          _ UTM (DTR)
                          _ TSO
                          _ CMS
                          _ TIAM
                          _ more choices for type or

                          _ API controlled - type 1
                          _ API controlled - type 2




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

8   Enter the jobname and press PF5:

```
18:35:06      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2011-12-03
                    -  Add Client Runtime Control  -              U11310M3
Run-mode: Pulsing (node 2650)

        Type: Batch
        Name: natbat__ (* for default controls for this type)


This is a standard type of runtime.













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

9   A job name may contain one or more asterisks (*) to indicate a wild card. For example, the
     runtime control 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. A single asterisk indicates that is the default
     definition for this job type.

10   Controls 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:** 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 runtime controls at initializ-
          ation. This is particularly relevant to batch jobs that process relatively few Adabas
          commands.

11   Different control types have different settings and different default values. Make any required
     changes and press PF5 to add the definition. You can then define API overrides and additional
     options or return to the list, as described in 6.

```
 10:52:32     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2012-03-13
                  -  System Coordinator Runtime Controls  -          U11310M5
 Run-mode: Pulsing (node 2650)
 Type: Batch          Name: NATBAT__
   Operation: Normal autodetect: X Enable without products: _ Disable all: _
   API runtime overrides....: N (Y/N)
   Use additional exits.....: N (Y/N)
   Maximum idle time (sec)..: _____

   Messages - Local.........: Console Y and/or DDMSG file _
        Or - Daemon routing: _
   Latency - Local (Y/N)....: Y

   Latency - Daemon (Y/N)...: N
            to disk........: N
   Activity pulse every.....: _____ commands or _____ seconds
   Group name...............: _____




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

Maintain Runtime Controls

▶ **To maintain a job parameter**

■ Select it by entering one of the following options in column C on the Client Runtime Controls list:

j	list jobs
m	modify
p	purge
r	rename
c	copy
o	overrides
i	site information

Modify provides 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.

- ■ Modify Runtime Control
- ■ List jobs in Runtime Control
- ■ Purge a Runtime Control
- ■ Rename a Runtime Control
- ■ Copy a Runtime Control
- ■ Maintain Site Information
- ■ Maintain Client Runtime Control Overrides
- ■ Dynamic Client Runtime Configuration for Experts

Modify Runtime Control

▶ **To modify a runtime control:**

1   Select it from the list by marking column C with an "m".

```
 16:03:05     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2012-03-12
               -  System Coordinator Runtime Controls  -          U11310M5
 Run-mode: Pulsing (node 2650)
 Type: COM-PLETE    Name: DAEFCODE
   Operation: Normal autodetect: X Enable without products: _ Disable all: _
   API runtime overrides....: N (Y/N)
   Use additional exits.....: N (Y/N)
   Maximum idle time (sec)..: 3600_____ Non-terminal idle time.: _____
   Generate RSP009/79 (Y/N).: Y (until 0_____ seconds elapse)
   Messages - Local.........: Console _ and/or DDMSG file _
         Or - Daemon routing: _
   Latency - Local (Y/N)....: Y

   Latency - Daemon (Y/N)...: N
          to disk........: N
   Activity pulse every.....: _____ commands or _____ seconds
   Group name...............: _____




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

2   Make any necessary modifications.

3   Use PF9 to modify additional options.

4   Use PF10 to modify the list of permissible API overrides.

5   Press PF5 to confirm your changes or PF3 to exit.

List jobs in Runtime Control

▶ **To list jobs in a runtime control:**

1   Select it from the list by marking column C with a "j".

```
15:25:27      ***** A D A B A S   FASTPATH SERVICES 8.2.2 *****      2012-03-08
                   -  Client Runtime Service Members  -            U11390M1

      Job type: IMS (DTR)
  Service name: BLA01
               C Name                                     Comments
               _ IMSJOB1

 Mark with Purge,Rename,History
Top of List
 Command ==>

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

2   List jobs is only relevant for DTR definitions. It allows you to define which jobs comprise that
     DTR service. Use PF10 to add a job. You can subsequently purge or rename it by marking it
     with P or R. All jobs defined for a DTR service will use the runtime controls specified on that
     service.

Purge a Runtime Control

▶ **To purge a runtime control**

1   Select it from the list by marking column C with a "p".

```
+-----------------------------------+
!  11:41:08     Purge     2006-07-21 !
!         Runtime Control U11340M1   !
!                                    !
!      Type: Batch                   !
!      Name: CORQ0200                !
!                                    !
!      _    All                      !
!      _    Transaction Mgr.         !
!      _    Fastpath                 !
!      _    Vista                    !
!                                    !
!    Mark Product(s) to purge or All !
!    (Overrides will also be purged) !
!  Command ==>                       !
!   PF1 Help   PF3 Exit   PF5 Purge  !
!                                    !
+-----------------------------------+
```

2   Mark which products' runtime controls you wish to purge or All to purge the entire control.

3   Press PF5 to confirm

Rename a Runtime Control

▶ **To rename a runtime control**

1   Select it from the list by marking column C with a "r".

```
+---------------------------------+
!  11:43:19    Rename    2006-07-21 !
!         Runtime Control U11350M1  !
!                                   !
!                                   !
!        Type: Batch                !
!                                   !
!        Name: CORQ0200             !
!                                   !
!    New Name: _____             !
!                                   !
!      Press PF5 to confirm rename  !
!                                   !
!                                   !
!  Command ==>                      !
!   PF1 Help   PF3 Exit   PF5 Rename !
!                                   !
+---------------------------------+
```

2   Specify the new name, which must not already exist.

3   Press PF5 to confirm

Copy a Runtime Control

▶ **To copy a runtime control**

1   Select it from the list by marking column C with a "c".

```
+----------------------------------+
! 11:44:20      Copy      2006-07-21 !
!         Runtime Control U11360M1   !
!                                    !
!      Type: Batch                   !
!      Name: CORP****                !
!                                    !
!      _    All                      !
!      _    Transaction Mgr.         !
!      _    Fastpath                 !
!      _    Vista                    !
!                                    !
!    Mark Product(s) to copy or All  !
!                                    !
!    Copy to ......: _____        !
!    Copy Overrides: N (Y/N - All)   !
!  Command ==>                       !
!   PF1 Help   PF3 Exit   PF5 Copy   !
!                                    !
+----------------------------------+
```

2 Mark which products' runtime controls you wish to copy.

3 Specify the job name to which these runtime controls will be copied, which must not already exist.

4 If you select All, you may also copy any defined overrides by entering Y against Copy Overrides.

5 Press PF5 to confirm

Maintain Site Information

▶ **To maintain site information**

1 Select it from the list by marking column C with a "i".

```
11:45:28      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2006-07-21
                 -  Client Runtime Controls Site Information  -      U11370M1


         Run-mode: Local
         Type: CICS (DTR)
         Name: CICCLUST


         Site Information
         ----------------


         DYPR=FNAT=(60099,205) PROFILE=CICSPROD_____
         _____
         _____
         _____


   You may define up to 256 bytes of alphanumeric data (site information), which
  is stored with this runtime control definition and may be retrieved at runtime
  using the documented API.




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

2   Modify the site information as required and press PF5 to save your changes, or press PF9 to purge the site information.

Maintain Client Runtime Control Overrides

▶ **To list runtime control overrides**

1   Select it from the Runtime Control maintenance list by marking column C with an 'o'.

```
18:45:25     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2011-12-03
          -  Client Runtime Controls Override Summary (COR)  -    U11380M1
Run-mode: Pulsing (node 2650)                      Reposition to Type: _____
Type: CICS (DTR)   Name: CICCLUST                            Name: _____
                           Overrides
C Type          Name        AFP  AVI  ATM  COR         Comments
_ Transaction  N426              Y         Y



















 Mark with Modify,Purge,Rename,Copy,Information
End of List
 Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help       Exit  Refr                                Add   Prods Menu   ↵


   ↵
```

2   This screen lists the runtime control overrides that have been defined for each product.

3   To add a new override, press PF10, mark the type of override you want to add and provide a name:

```
11:50:36      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****       2006-07-21
                - Add Client Runtime Control Override  -          U11381M1

Run-mode: Local
Type: CICS (DTR)    Name: CICCLUST

Select the override type ....: _ Login id
(mark one)                     x Transaction


 and specify the override name: natp____



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

4   Press PF5 to add an empty override, which you can then modify as required:

```
18:47:13     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2011-12-03
          - Client Runtime Controls Override Summary (COR)  -    U11380M1
Run-mode: Pulsing (node 2650)                    Reposition to Type: _____
Type: CICS (DTR)    Name: CICCLUST                           Name: _____
                         Overrides
C Type          Name        AFP  AVI  ATM  COR         Comments
_ Transaction   NATP                                   *Added (empty)
_               N426             Y         Y












 Mark with Modify,Purge,Rename,Copy,Information

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

5   Enter one of the following options in the C column to select an entry:

m	modify
p	purge
r	rename
c	copy
i	site information

6   These options are the same as the ones available for maintaining client runtime controls except that they maintain the override controls rather than the base level controls.

7   Use PF11 to select the product for which you want to define or modify an override.

Dynamic Client Runtime Configuration for Experts

You can dynamically change some runtime controls for your current session. To do this, enter CORENV and use PF11 to select the required product as in the following example.

> **Note:** Some dynamic changes may take some time to take effect depending upon the product/setting in question.

```
18:49:59     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2011-12-03
                          -  Main Menu  -                            C1MAINM1
Run-mode: Pulsing (node 2650)


                  Code    Service
                  ----    ------------------------
                   0      System Settings
                   1      Maintenance
                   2      Current Activity Displays
                   3      Special Services
                   4      About System Coordinator
                   .      Exit
                  ----    ------------------------
          Code..: _




 You can easily switch around the tools for Fastpath, Vista etc by use of
 PF11, or use the codes COR, AFP, AVI, AAF, ATM as commands - anytime.

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

Which shows you the current System Coordinator runtime controls in effect for your session.

```
 16:09:27              ***** CURRENT SESSION CONTROLS *****            2012-03-12
                    -  System Coordinator Session Controls  -          CORENVM1


   API runtime overrides....: N          Threadsafe operation...: Y
   Use additional exits.....: N
   Maximum idle time (sec)..: 3600       Non-terminal idle time.:
   Generate RSP009/79 (Y/N).: Y (until 0           seconds elapse)
   Cleanup at start.........: N (Y/N)
   Messages - Local.........: Console Y and/or DDMSG file _
        Or - Daemon routing: _
   Latency - Local (Y/N)....: Y
            TSQ prefix.....: WORK
   Latency - Daemon (Y/N)...: N
            to disk........: N
   Activity pulse every.....: 100     commands or 30    seconds
   Group name...............: WORKSHOP




 Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help        Exit        Upd  Reset               More        Prods       ↵
```

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 numbers of the daemons 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 Client Runtime Controls function of SYSCOR, SYSAVI, SYSAFP, or SYSATM Online Services.

- Main Menu
- Adding a Daemon Group Definition
- Maintaining a Daemon Group Definition

■ Maintain a Daemon Group Daemon Definition

Main Menu

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

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

```
 09:25:46      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2011-12-04
                           System Coordinator Groups                    C11200M1
 Run-mode: Pulsing (node 2650)


 C Group Name    Type      SVC ID     Daemons
 _  DEMO82      Multi        254         2
 _  TSTGROUP    Single       253         1














 Mark with M(odify),P(urge),R(ename),L(ist)

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

2   Enter one of the following options in the C column:

m	Modify group definition
p	Purge group definition
r	Rename group definition
l	List daemons in group

3   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:

```
+----------------------------------------------------------------------+
|  09:27:38                      Add                     2011-12-04    |
|                    System Coordinator Group             C11210M1     |
|                                                                      |
|            Group Name: _____        SVC ID: _____                 |
|                                                                      |
|    System Type: _   Standard single-system image...                 |
|     (Mark one)      There is only one daemon in the group.           |
|                 _   Standard multi-system images - XCF...            |
|                     This enables multiple XCF group daemons.         |
|                 _   Standard multi-system images - Net-Work...       |
|                     This enables multiple Net-Work group daemons.    |
|                                                                      |
|    Group-wide latency service:                                       |
|      Full crash recovery disk file (Y/N): N                          |
|                                                                      |
|                                                                      |
|                                                                      |
|                                                                      |
|                                                                      |
|   Command ==>                                                        |
|        PF1 Help        PF3 Exit        PF5 Add       PF9 More        |
|                                                                      |
+----------------------------------------------------------------------+
```

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. This is used to support coordinator daemons running Adabas Fastpath buffers or Adabas Transaction Manager across multiple system images and also to support dynamic transaction routing across multiple system images.

- Multiple system images using Entire Net-Work for communication between images. This is used to support coordinator daemons running Adabas Fastpath buffers or Adabas Transaction Manager across multiple system images and also to support dynamic transaction routing across multiple system images. You are recommended only to use Entire Net-Work if XCF is not available.

5   In the field Full crash recovery disk file, select whether or not latent sessions for client jobs managed by this daemon group are to be written to disk file. This feature allows client sessions to resume processing after a client job or daemon failure.

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.

7   Press PF5 to add the group definition.

8   Press PF9 to see more Daemon Group definition fields and the following screen will appear:

```
+---------------------------------------------------------------------+
|  16:04:19          Additional Group Parameters        2012-03-08    |
|                    System Coordinator Groups          C11210M2       |
|                                                                     |
|                                                                     |
|  Messages - daemon...... Console: Y and/or DDMSG file: _            |
|  Messages - databases... Console: Y and/or DDMSG file: _            |
|                                                                     |
|                                                                     |
|                                                                     |
|                                                                     |
|                                                                     |
|                                                                     |
|  Command ==>                                                        |
|                    PF3 Quit          PF5 Upd                        |
|                                                                     |
|                                                                     |
|                                                                     |
+---------------------------------------------------------------------+
```
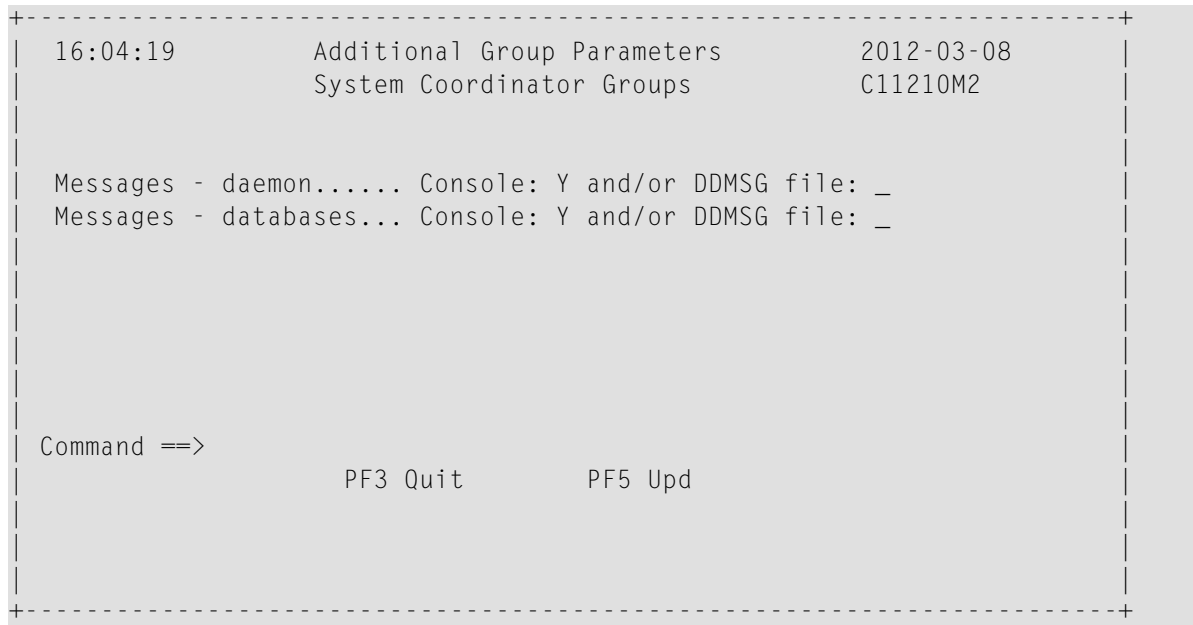
9   In the "Runtime messages – databases" fields select either one or both options for the destination of messages output by the Adabas System Coordinator component in the database and the other products that use its services.

Messages, by default, are written to the console. Messages issued by databases that are within the same daemon group may either be directed instead (or in addition) to a file (DDMSG) by selecting the Local file option. The DDMSG output must be introduced to the databases execution control script and the file must be correctly in place for the messages to appear. In some operating systems it will automatically appear to list output.

10 The settings from the "More" screen can be confirmed by using PF10. The daemon group will not be created until PF5 is pressed on the first screen.

11 Press PF5 to confirm any changes made on this screen, or PF3 to return to the main group screen.

Maintaining a Daemon Group Definition

After adding the group, you can change any of its attributes, by entering 'm' against it:

```
+------------------------------------------------------------------+
|  10:55:35                  Modify                   2011-12-04   |
|                   System Coordinator Group          C1123OM1     |
|                                                                  |
|           Group Name: DEMO82        SVC ID: 254__                |
|                                                                  |
|    System Type: _   Standard single-system image...             |
|     (Mark one)      There is only one daemon in the group.       |
|                X    Standard multi-system images - XCF...        |
|                     This enables multiple XCF group daemons.     |
|                _    Standard multi-system images - Net-Work...   |
|                     This enables multiple Net-Work group daemons.|
|                                                                  |
|    Group wide latency service:                                   |
|      Full crash recovery disk file (Y/N): N                      |
|                                                                  |
|                                                                  |
|                                                                  |
|                                                                  |
|                                                                  |
|   Command ==>                                                    |
|      PF1 Help          PF3 Exit       PF5 Upd        PF9 More     |
|                                                                  |
+------------------------------------------------------------------+
```

Make any changes required and press PF5 to confirm them. Press PF9 to see further parameters:

```
+-------------------------------------------------------------------+
|  16:10:00           Additional Group Parameters        2012-03-08 |
|                     System Coordinator Groups          C11210M2   |
|                                                                   |
|                                                                   |
|  Messages - daemon...... Console: Y and/or DDMSG file: _          |
|  Messages - databases... Console: Y and/or DDMSG file: _          |
|                                                                   |
|                                                                   |
|                                                                   |
|                                                                   |
|                                                                   |
|                                                                   |
|  Command ==>                                                      |
|                    PF3 Quit        PF5 Upd                        |
|                                                                   |
|                                                                   |
|                                                                   |
+-------------------------------------------------------------------+
```

Make any changes required then enter PF5 to confirm these changes or PF3 to return to the first screen.

```
+-------------------------------------------------------------------+
|  16:10:00           Additional Group Parameters        2012-03-08 |
|                     System Coordinator Groups          C11210M2   |
|                                                                   |
|                                                                   |
|  Messages - daemon...... Console: Y and/or DDMSG file: _          |
|  Messages - databases... Console: Y and/or DDMSG file: _          |
|                                                                   |
|                                                                   |
|                                                                   |
|                                                                   |
|                                                                   |
|  Command ==>                                                      |
|                    PF3 Quit        PF5 Upd                        |
|                                                                   |
|                                                                   |
|                                                                   |
+-------------------------------------------------------------------+
```

You can also purge or rename the group. You must use purge and rename with care as you may invalidate other definitions (client runtime controls and Adabas Fastpath buffer definitions) that refer to the group being purged or renamed.

To purge, enter 'p' against the group to be purged:

```
+----------------------------------------------------+
|  11:25:01           Purge              2011-09-01  |
|          System Coordinator Group   C11240M1       |
|                                                    |
|               Group Name: TESTMULT                 |
|                                                    |
|                  SVC ID: 253                       |
|                                                    |
|               PF5 to Confirm Purge                 |
|                                                    |
|                                                    |
|  Command ==>                                       |
|       PF1 Help     PF3 Exit     PF5 Purge          |
|                                                    |
+----------------------------------------------------+
```

and press PF5 to confirm.

To rename, enter 'r' against the group to be renamed:

```
+----------------------------------------------------+
|  11:25:31           Rename             2011-09-01  |
|          System Coordinator Group   C11250M1       |
|                                                    |
|               Group Name: TESTMULT                 |
|                                                    |
|                 New Name: _____                 |
|                                                    |
|               PF5 to Confirm Rename                |
|                                                    |
|                                                    |
|  Command ==>                                       |
|       PF1 Help     PF3 Exit     PF5 Upd            |
|                                                    |
+----------------------------------------------------+
```

Maintain a Daemon Group Daemon Definition

▶ **To maintain a daemon group daemon definition**

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

```
 10:59:37      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2011-12-04
                  - System Coordinator Group Daemons  -            C11260M1
 Run-mode: Pulsing (node 2650)
Group Name: DEMO82                              Operating System: Multi
   SVC ID: 254
                    Daemon
        C          Job Name        Node ID
        _          ICFDCOR3        1650_            <== Top of List
        _          ICFDCOR4        1660_            <== End of List
                   _____        _____
                   _____        _____
                   _____        _____
                   _____        _____
                   _____        _____
                   _____        _____
                   _____        _____
                   _____        _____
                   _____        _____
                   _____        _____
 Mark with M(odify),P(urge)

 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 daemon by entering 'p' in the C column adjacent to the Daemon Job Name entry;

■ change the daemon job name or node id by overtyping it and pressing PF5;

■ add a new daemon entry by pressing either PF5 or PF10; or

■ modify a daemon entry by entering 'm' in the C column adjacent to the entry to be modified.

2   If you are adding a new group, you must add at least one daemon.

    For each daemon, specify the following:

■ Daemon 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.

   　　　Note: You may not define Node ID 255, because 255 is reserved for use by Natural.

3   Entering m against a daemon presents this modification screen:

```
17:07:44      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2012-03-12
              -  Adabas System Coordinator Daemon Parameters   -      C11261M1
 Run-mode: Pulsing (node 17004)
 Group: RPEGRP1    Daemon: AFP17004   SVC: 254   Node: 17004   System: Multi
   Recovery
     Continuous Operation (Y/N).......: Y
   Daemon latency/pulse services
     Shared memory area size (k)......: 1800____     Minimum (k): 0_____
            Dataspace name (if used)..: #WRKSP1_
     Daemon memory area size (k)......: 0_____     Minimum (k): 0_____


   Unified trace settings
     Trace size (k)...................: 32    (no tracing = 0; maximum = 32)
     Use trace file (Y/N)...........: N   Wraparound file when full (Y/N).: N
     Note:   Activation must be performed manually in daemon/database 'tasks'.
     Note:   This same configuration is shared by any databases too.




 Command ==>



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

Here you can modify latency/activity services:

- Whether to use shared memory, maximum and minimum sizes and whether to use a dataspace and unified trace settings for this daemon and (currently) the databases it knows about.

- Trace buffer size, whether to write to a trace file and whether to wraparound the trace file when it fills. Make any required changes and press PF5 to confirm them or PF3 to return to the daemon list.

5 Current Activity Displays

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

Current Activity Displays Menu

▶ **To display the Current Activity Displays menu**

■   Select service 2 from the main menu.

```
 11:24:13      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2012-03-06
                   -  Current Activity Displays  -                      C12000M1
 Run-mode: Pulsing (node 2650)                    Perspective: Daemon (node 2650)


                  Code     Service
                  ----     ------------------------
                   0       Change Perspective
                   1       Adabas Client Activities
                   2       Network Discovery
                   3       Daemon Information
                   .       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
change perspective	0	
Adabas client activities	1	2.1
network discovery	3	2.2
display daemon information	4	2.3

All information requests will be directed to the current information source as displayed in the Perspective 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 or if you are running in pulsing or full daemon mode, monitoring requests will be directed to your coordinator daemon. Option 3 is only available

if you are currently using daemon perspective, as in the example screen above. Bear in mind that the information displayed in pulsing mode may not be as current as the same information displayed in local mode. In pulsing mode, you see a snapshot of the information as it was last transmitted to the daemon. The frequency of transmission depends on the client runtime "Refresh activity statistics" controls.

Change Perspective

This option can be used to route monitoring requests to any active coordinator daemon or to your local client session (see screen below).

▶ **To access the Change Perspective screen from the Current Activity Displays menu**

■ Select service 0.

```
+--------------------------------------------------------------------+
|  11:12:59        Change Perspective         2008-05-22             |
|  Current perspective: Daemon (node 650)     C12PSPM1               |
|                                                                    |
|  Local:  Shows current activity displays information for this      |
|          job and active targets of the Adabas router              |
|          in use by this job                                        |
|  Daemon: Shows current activity displays information for jobs      |
|          managed by the System Coordinator daemon and             |
|          active targets known to the daemon                       |
|                                                                    |
|  Revert to local (node 0)......: _                                 |
|  Change to daemon node.........: _____                            |
|                                                                    |
|                                                                    |
|          PF3 Exit    PF5 Set perspective                          |
|                                                                    |
+--------------------------------------------------------------------+
```

Change perspective by marking "Revert to local" or entering a daemon node and pressing PF5. For jobs defined to run in daemon mode other options are available:

```
+------------------------------------------------------------------+
| 11:17:04          Change Perspective         2008-05-22          |
| Current perspective: Daemon (node 660)       C12PSPM1            |
|                                                                  |
| Local:  Shows current activity displays information for this    |
|         job and active targets of the Adabas router             |
|         in use by this job                                       |
| Daemon: Shows current activity displays information for jobs     |
|         managed by the System Coordinator daemon and            |
|         active targets known to the daemon                       |
|                                                                  |
| Revert to daemon (node 650)...: _                               |
| Change to daemon node.........: _____                           |
| Change to local (node 0)......: _                               |
|                                                                  |
|         PF3 Exit    PF5 Set perspective                         |
|                                                                  |
+------------------------------------------------------------------+
```

Mark "Revert to daemon…" and press PF5 to revert to the job's default daemon (after changing perspective to another daemon) or mark "Change to local…" and press PF5 to switch to local perspective.

When running in pulsing mode, the options are slightly different, with "Revert to Pulsing…" instead of "Revert to daemon…":

```
+------------------------------------------------------------+
| 11:21:57         Change Perspective        2011-12-04 |
| Current perspective: Daemon (node 2660)      C12PSPM1  |
|                                                        |
| Local:  Shows current activity displays for this      |
|         job and active targets of the Adabas router   |
|         in use by this job                             |
| Daemon: Shows current activity displays for jobs       |
|         managed by the System Coordinator daemon and   |
|         active targets known to the daemon             |
|                                                        |
| Revert to Pulsing (node 2650)....: _                  |
| Change to daemon node............: _____              |
| Change to local (node 0).........: _                  |
|                                                        |
|         PF3 Exit    PF5 Set perspective               |
|                                                        |
+------------------------------------------------------------+
```

Adabas Client Activities

- List jobs managed by Adabas System Coordinator
- List Adabas clients known by System Coordinator daemon

▶ **To display the Adabas Client Activities screen from the Current Activity Displays menu**

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

You can now choose between listing activities for Adabas clients in a single job, or across all jobs.

```
11:24:13      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2012-03-06
                   -  Current Activity Displays  -                     C12100M0
Run-mode: Local plus (node 1660)             Perspective: Daemon (node 1660)


                 Code    Service
                 ----    --------------------------
                  1      Adabas clients within job
                  2      Adabas clients across jobs
                  .      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
List jobs managed by Adabas System Coordinator	1
List Adabas clients known by System Coordinator daemon	2

List jobs managed by Adabas System Coordinator

```
 11:22:52      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2011-12-04
                   -  Adabas Client Job Information  -           C12100M1
 Run-mode: Pulsing (node 2650)                 Perspective: Daemon (node 2650)
                              Start Time      Number     Current   Maximum
 C  Service    Job Name  Job Num. (HH:MM:SS)  of commands  Sessions  Sessions
 _  None       DAEFCI18  C56042   23:26.18         33,556        4         4




















 Mark with any character to expand or D(isplay),T(asks)
 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. Local perspective shows the job that you are executing in, daemon perspective shows all jobs managed by that daemon. The following fields are displayed:

Field	Description
C	This field can be used to display additional information: ■ D: display job information ■ T: perform tasks on the job ■ Any other non-blank character lists session information.
Service	The clustered application service name (if any) used by this job.
Job Name/Job Num	The job name and job number.
Number of commands	The number of Adabas commands issued by the job.
Start Time	The start time of the job.
Current Sessions	The number of user sessions active in the job.
Maximum Sessions	The maximum number of sessions active since the job started.

Display Job Information

Selecting Display results in the following screen being displayed:

```
11:26:54      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2011-12-04
                      -  Display Job Details  -                      C12110M1
Run-mode: Pulsing (node 2650)                  Perspective: Daemon (node 2650)
Job Name: DAEFCI18    Job Number: C56042


      No. of commands:                                   32,733
      Thread peak information:
          Session size:                                     80K
          Workarea size:                                    76K
          Total:                                           199K

















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

This screen shows the total number of Adabas commands seen by System Coordinator in this job
and peak thread size information for session-related memory, temporary workarea and total thread
size. Pressing PF10 lists the job's sessions (see **Display Session Information**).

Tasks

This function gives a task selection window. Mark the selected task (currently only Snap is available)
and press PF5 to perform the task:

```
+--------------------------------------------------------------+
| 11:28:26          Adabas Client Job Tasks          2011-12-04 |
| Job name: DAEFCI18 number: C56042                            |
|                                                              |
| Select one task:                                            |
| _ Snap                                                      |
|                                                              |
|                                                              |
|                                                              |
|                                                              |
|                                                              |
|                                                              |
|                                                              |
|                                                              |
|                                                              |
|              PF3 Exit    PF5 Perform task                    |
|                                                              |
+--------------------------------------------------------------+
```

Expand

Any other non-blank character lists the job's sessions (see **Display Session Information**).

PF11 on the Adabas Client Job Information screen allows you to cycle through information for other installed products, in the sequence System Coordinator, Transaction Manager, Fastpath, Vista, refer to the documentation for those products for more information.

List Adabas clients known by System Coordinator daemon

```
 16:28:19     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2012-03-12
                 - Adabas Client Login id Information  -          C12140M1
 Run-mode: Pulsing (node 2650)              Perspective: Daemon (node 2650)
 Go to login id: _____      Number       Number      Total
 C  Login id               of sessions    of jobs     commands
 _  UKSJU                        5           3      33,556
```
```
 Mark with any character to expand
 End of List
  Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit  Refr                             MyGo        Menu      ↵
```

This screen shows the login ids (across all jobs) that are currently active and managed by Adabas System Coordinator. It is only available in daemon perspective. The following fields are displayed:

Field	Description
Go to login id	Reposition the list at the specified login id. Enter *MY to reposition the display at your own logon identity (taken from the current *INIT-USER). This allows you to quickly get to display activities for your current session.
C	Enter any non-blank character to list session information for this login id (see **Display Session Information**.)
Login id	The login id.
Number of sessions	The number of active sessions for this login id, across all jobs.
Number of jobs	The number of jobs in which this login id is active.
Number of commands	The number of Adabas commands issued by the login id.

Display Session Information

Expanding a job or login id results in the following screen being displayed:

```
11:36:31      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2011-12-04
                     - Display Session Information  -            C12130M1
Run-mode: Pulsing (node 2650)                 Perspective: Daemon (node 2650)
Service: None     Job: DAEFCI18 C56042   ID: CI18     Commands:        33,397
Sessions: 4         Session size: 80K     Work size: 76K    Total: 199K
Go to terminal: _____        Dormant       Number
C     Session id      Login id (HHH:MM.SS)  of commands          Status
_    TA20    DAEFCI18  TEAM2       0:18.45           252         at rest
_    TA21    DAEFCI18  TEAM3       0:00.08           898         at rest
_    TA26    DAEFCI18  UKSJU       0:00.01           753    running in Adabas
_    TA29    DAEFCI18  TEAM1       0:17.31        20,297         at rest




 Mark with any character to expand or T(asks)
End of List
 Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help          Exit  Refr                          Jobs  MyGo        Menu        ↵
```

This screen shows summary information about the job (when expanding a job) and the client sessions that are active for a job or login id managed by the Adabas System Coordinator. The following information is provided:

Field	Description
Go to terminal	Reposition the list at the specified terminal id. Enter *MY to reposition the display at your own terminal identity (taken from the current *INIT-ID). This allows you to quickly get to display activities for your current session.
Session ID	The Session ID. In a TP system, a session is usually equivalent to a terminal or an asynchronous task (also known as background tasks). IDs comprised of special characters are normally generated by the system.
Login ID	The login id of the session.
Dormant	The amount of time since the last user activity.
Number of commands	The number of Adabas commands issued by the session.

Field	Description
Status	The current status of the session. This shows one of ■ "at rest" for sessions that are currently dormant ■ "running" for sessions that are active but not currently in Adabas ■ "running in Adabas" for sessions that are active and in Adabas Press PF9 to toggle the status column between the session status and the job in which the session is active.

Mark a session with one of the commands shown:

■ T: perform tasks against the session

```
+--------------------------------------------------------------+
|  11:47:03            Client Session Tasks        2011-12-04  |
|  Job name: DAEFCI18 Session ID: TA21     DAEFCI18           |
|                                                              |
|  Select one task:                                            |
|  _ Snap                                                      |
|  _ Switch debug on/off                                       |
|  _ Purge                                                     |
|                                                              |
|                                                              |
|                                                              |
|                                                              |
|                                                              |
|                                                              |
|                PF3 Exit    PF5 Perform task                  |
|                                                              |
+--------------------------------------------------------------+
```

Select the required task and press PF5 to perform it.

■ S: snap internal information to CORDUMP.

■ Activate or deactivate client debug monitoring for a session.

■ Purge this session. Be careful not to purge a session that is still in use as this may have unpredictable results. You must confirm the purge request with PF5:

```
+------------------------------------------------+
|  16:01:32      Purge Session      2006-10-09   |
|                                   C12233M1     |
|                                                |
|             Session ID: UKSJU  4               |
|                                                |
|             PF5 to Confirm Purge               |
|                                                |
|  WARNING:                                      |
|  Purging a session can cause catastrophic      |
|  unpredictable results including failure of    |
|  the whole service. You must be absolutely     |
|  sure the session is gone completely and is    |
|  not going to reactivate.                      |
|                                                |
|                                                |
|  Command ==>                                   |
|       PF1 Help    PF3 Exit    PF5 Purge        |
|                                                |
+------------------------------------------------+
```

■ Any other non-blank character to expand Adabas client sessions, see the next section.

Expand Adabas client sessions

Selecting Expand from Display Session Information results in the following screen being displayed:

```
11:50:48     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2011-12-04
Job Name: DAEFCI18    -  Display Session Information  -            C12136M1
Run-mode: Pulsing (node 2650)                  Perspective: Daemon (node 2650)
Session ID: TA29    DAEFCI18 Hex: E3C1F2F900000000C4C1C5C6C3C9F1F8


                       Status:
Terminal name...............: TA29       Network name................: DAEETA29
Login id....................: TEAM1      Task number.................: 3711
Activity pulses to WORKSHOP : 2946       Transaction code............: PRAD
Latency writes..............: 10         Reads.......................: 9
Thread information...Session: 96         Workspace...................: 16K


ADAMODE sessions:
C  Adabas Session Identity            Hex
_   CICSTA29   00000000000000000000000000000000000000000C3C9C3E2E3C1F2F9




 Mark with any character to expand or T(asks)
Top of List
 Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit  Refr                                      Menu      ↵
```

This screen shows information about the session and lists the Adabas client sessions that are active for it. The following information is provided:

Field	Description
Terminal name	The terminal name (for terminal sessions).
Network name	The network name (for terminal sessions).
Login ID	The login id in use by this session.
Task number	The task number (for CICS sessions).
Activity refreshes	For pulsing mode, shows the number of times this session has transmitted information to the daemon and in which group the daemon is running.
Transaction code	The transaction code in use by this session.
Latency writes/reads	The number of message pairs executed by this session.
Current thread information	The current sizes of this session's session and work areas.

This screen shows the Adabas client sessions that are active. Mark a session with one of the commands shown:

- T: perform tasks on this Adabas client session:

```
+---------------------------------------------------------------+
| 11:57:49      Adabas Client Session Tasks      2011-12-04    |
| Job name: DAEFCI18 Session ID: TA29    DAEFCI18              |
| Adabas session id: CICSTA29 Hex:                             |
| 000000000000000000000000000000000000000000C3C9C3E2E3C1F2F9   |
|                                                               |
| Select one task:                                              |
| _ Controls                                                    |
| _ Trace                                                       |
| _ Purge                                                       |
|                                                               |
|                                                               |
|                                                               |
|                                                               |
|                                                               |
|            PF3 Exit    PF5 Perform task                       |
|                                                               |
+---------------------------------------------------------------+
```

Select the required task and press PF5 to perform it.

■ Controls: display or modify client runtime controls for a session. Initially you are presented
with System Coordinator's controls:

```
 12:00:15              ***** CURRENT SESSION CONTROLS *****            2011-12-04
                    -  System Coordinator Session Controls  -          CORENVM1


  API runtime overrides....:              Threadsafe operation...: Y
  Use additional exits.....: N
  Maximum idle time (sec)..: 3600       Non-terminal idle time.:
  Generate RSP009/79 (Y/N).: Y (until 0           seconds elapse)
  Cleanup at start.........: N (Y/N)
  Runtime messages.........: Y Default _ Local (DDMSG) file _ Daemon (DDMSG)
  Activity pulse every.....: 43      commands or 9     seconds
    Display (mark one).....:   Daemon shared memory
                               Daemon memory
    Latency (mark one).....: X Local and TSQ prefix: WORK
                              _ Group latency disk file
                              _ Daemon shared memory
                              _ Daemon memory
  Group name...............: WORKSHOP (required if group/daemon services used)



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

Modify them as required and press PF5 to update the session's controls. To modify controls for
another product, press PF11 until the required product appears:

```
 12:03:15            ***** CURRENT SESSION CONTROLS *****              2011-12-04
              -  Adabas Transaction Manager Session Controls  -       SETATMM1


                              Last modified 2011-11-08 at 10:39:03 by TEAM1
        ATM ON/OFF ...... ON_          Added 2011-11-03 at 08:33:21 by UKMCM
        System coordinator group name ........... WORKSHOP
        Maximum number of open databases ........ 4
        Number of log record entries ............ 0____
        Continuous operation mode ............... FORCE   (Yes/No/Force)
        Coordinate Adabas outside the group ..... YES     (Yes/RM/No)
        Application controls ET data ............ NO_     (Yes/No)
        Generate OP commands .................... NO_     (Yes/No)
        Use extended hold processing ............ NO_     (Yes/No)
        Disable Adabas dynamic transaction model  NO_     (Yes/No)
        Open distributed transaction support..... NO_     (Yes/No)
            Transaction control by other vendors NO_      (Yes/No)
                            by ET .......... YES     (Yes/No)
                            by BT .......... YES     (Yes/No)
                            by CL .......... YES     (Yes/No)



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

You can then modify the controls (those which are modifiable on runtime control overrides – see
Maintain Client Runtime Control Overrides) for this client session only and press PF5 to update
them. Press PF6 to revert to the pre-defined runtime controls for all products.

■ Trace: display the unified trace for this session:

```
+-------------------------------------------------------+
|  12:05:17                                U1UTROMX     |
|                                                       |
|  Select one of the following options for the trace    |
|  date/time display:                                   |
|                                                       |
|    X    Your local time                               |
|    _    The Time-Of-Day clock in the trace record     |
|    _    Adjust the time by                            |
|         Plus/minus...: _ (+/-)                        |
|         Hours:minutes: 00:00                          |
|                                                       |
|                   PF3 Exit                            |
|                                                       |
+-------------------------------------------------------+
```

Select how you want the date and time to be displayed and press ENTER:

```
 12:06:15      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2011-12-04
                         -  Trace Entries  -                           U1UTROM1

 Node ID: LOCAL Session ID: CICSTA29 Hex: C3C9C3E2E3C1F2F9 Job: DAEFCI18
 Terminal name....................: TA29        Login id......: TEAM1
 C   Date      Time      CMD    Identity  Database/File    ISN    RSP/Sub-code
 _ 11-12-04 11:45:11.0   RC    03200201      640     0  00000000  0     0
 _ 11-12-04 11:45:11.0   S1    00000000      640     8  00000000  0     0
 _ 11-12-04 11:45:11.0   S1    31950101      640   195  00000006  0     0
 _ 11-12-04 11:45:11.0   V1    00000000      640     0  00000000  0     0
 _ 11-12-04 11:45:11.0   V1    00000000      640     0  00000000  0     0
 _ 11-12-04 11:45:11.0   S1    00000000      640     8  00000000  0     0
 _ 11-12-04 11:45:11.0   L3    24750201      640     8  00041917  0     0
 _ 11-12-04 11:45:11.0   RC    24750201      640     0  00000000  0     0
 _ 11-12-04 11:45:11.0   L3    24750201      640     8  00041917  0     0
 _ 11-12-04 11:45:11.0   L3    24750201      640     8  0003BC52  0     0
 _ 11-12-04 11:45:11.0   RC    24750201      640     0  00000000  0     0
 _ 11-12-04 11:45:11.0   S1    00000000      640     8  00000000  0     0

 Mark for more information


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

Mark a trace entry for more information or use PF11 to toggle the display between original and target database id and file number.

Additional information shown when marking a trace entry:

```
 12:08:06     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****    2011-12-04
                          -  Trace Entries  -                       U1UTR1M1

Node ID: 2650  Session ID: CICSTA29 Hex: C3C9C3E2E3C1F2F9 Job: DAEFCI18
Terminal name....................: TA29        Login id......: TEAM1
Product <----------------- Trace events description ----------------->
  COR    Command start
         DADA entry
         DADA entry
         DSVC router call
         DADA exit
  AVI    Command start - client-side
         No cursor or transaction activity
         Database rule locator
         Database details locator
         Target rule locator
         File details locator
         Process normal command
         New cursor detected
         Router/Adabas processing


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

PF11 cycles round product-specific trace information for each active product.

■ P: purge this Adabas client session. Be careful not to purge a session that is still in use as this may have unpredictable results.

You must confirm the purge request with PF5:

```
+---------------------------------------------------------------------------+
|  12:34:52                 Purge Adabas Session              2011-04-14  |
|                                                            C1213ZM1     |
|  Session ID: CICSTC95                                                    |
|       Hex: 00000000000000000000000000000000000000000C3C9C3E2E3C3F9F5    |
|                                                                          |
|                          PF5 to Confirm Purge                           |
|                                                                          |
|  WARNING:                                                                |
|  Purging a session can cause catastrophic unpredictable results          |
|  including failure of the whole service. You must be absolutely sure     |
|  the session is gone completely and is not going to reactivate.          |
|                                                                          |
|                                                                          |
|                          PF3 Exit    PF5 Purge                          |
|                                                                          |
+---------------------------------------------------------------------------+
```

■ Any other non-blank character displays information about this Adabas client session.

```
 12:11:59     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2011-12-04
               - System Coordinator Session Statistics  -        U1STSOM1
Node ID: 2650  Session ID: CICSTA29 Hex: C3C9C3E2E3C1F2F9 Job Name: DAEFCI18
Terminal name: TA29            Network name: DAEETA29     Login id: TEAM1


      No. of commands:                              20,562

















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

Use PF10 to perform tasks on this Adabas client session:

```
+----------------------------------+
|  12:23:37     Tasks      U1TSKOM1 |
|                                  |
|  Select the task you wish to     |
|  perform for this session:       |
|                                  |
|    _   List Accessed Databases   |
|    _   TM: Stop Adabas UQEs      |
|                                  |
|                                  |
|                                  |
|                                  |
|          PF3 Exit                |
|                                  |
+----------------------------------+
```

You can list the databases that have been accessed:

```
 12:25:01      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****       2011-04-14
                       - List Accessed Databases -                       U1TSK1M1


 Session: CICSTC95 Fully qualified session (hexadecimal):
                   000000000000000000000000000000000000000C3C9C3E2E3C3F9F5
 Number of databases currently being accessed:
      Database Comment
         135
         640
















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

TM: Stop Adabas UQEs can only be selected when Adabas Transaction Manager is active.

For more information refer to the Adabas System Coordinator online administration section in Adabas Transaction Manager's Online Services documentation.

```
 12:27:50      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2011-04-14
                        - Stop Adabas UQEs -                            U1TSK1M1
 Using daemon node: 0     (optional, if 0 the runtime daemon node is used)
 Session: CICSTC95 Fully qualified session (hexadecimal):
                 00000000000000000000000000000000000000C3C9C3E2E3C3F9F5
 Number of databases currently being accessed:
        Database Comment
          135
          640

















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

Press PF5 to action the stop.

PF11 on the Adabas client session list allows you to cycle through information for other installed products, in the sequence System Coordinator, Transaction Manager, Fastpath, Vista.

```
 12:15:52     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2011-12-04
                 -  Transaction Manager Session Statistics  -       U1STSOM4
 Node ID: LOCAL Session ID: CICSTA29 Hex: C3C9C3E2E3C1F2F9 Job Name: DAEFCI18
 Terminal name: TA29          Network name: DAEETA29      Login id: TEAM1
 --Transaction activities summary ----------Done----------------Undone--------
 Adabas DTP:         Single-phase:            0 (0%)                   0 (0%)
                            Full:             0 (0%)                   0 (0%)
          Continuous operation:               0 (0%)                   0 (0%)
                       Sub-total:             0 (0%)                   0 (0%)
 Adabas open DTP:  Single-phase:              0 (0%)                   0 (0%)
                            Full:             0 (0%)                   0 (0%)
          Continuous operation:               0 (0%)                   0 (0%)
                       Sub-total:             0 (0%)                   0 (0%)
 Combined total:                              0 (100%)                 0 (100%)
 --Other --------------------------------------------------------------------
         Transaction time expiry:            0
            Heuristic completions:           0
  Recovery file reads and writes:            0                        0
 Duration (secs) average and peak:           0.00                     0.00
         RM and non-RM used count:           1                        1


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

Some products offer more information via PF9 (only when the perspective is local):

```
 12:33:41     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2011-04-14
                     -  Session Details  -                       U1TMAOM1
 Job Name: DA2FCI23      Co-ordinator: ATM               Client Type: 00 - DTP
 Terminal ID: TC95     E3C3F9F500000000      Net Name: DAEETC95 C4C1C5C5E3C3F9F5
 Client ID:           0000000000000000      Status:   F00000000000  GT
 CommID: 000CA10E 20980001 40404040 40404040 00FC7700 C3C9C3E2 E3C3F9F5
   XID: C1C4C101 00000050 00000000 00000000 00000000 00000000 00000000 00000000
        00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
        00000000 00000000 00000000 00000000 00000000 00000000 00000000 C2D80000
        00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
 Adabas calls: 6804                               ASA: 00000000 GTQE: 00000000
 Last Function Call: 22  - WRAP CMD               Transaction model: MESSAGE
  DBNo.  L/R  DTP    ETID       Status     |       Pending Response Codes
  640     R    N           8060 ET         |         Resp.   Subcode
  135     R                8062 ET         |
                                           |
                                           |
                                           |
                                           |
                                           |
                                           |


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

Network Discovery

▶ **To use the Network Discovery function from the Session Monitoring menu**

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

```
 12:42:00     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2011-04-14
                         -  Network Discovery  -                     C12200M1
 Run-mode: Local plus (node 1660)          Perspective: Daemon (node 1660)
   Coord  L Last Update                                 Status
 C  Node  R (HH:MM.SS)    DBID   Nuc ID      Type       A S P F   Resp Subc
 _  1660  L  11:57.13      655    6552    Ada Cluster(S)  A S P -
 _                        1660    1660    System Coord    A S - -
 _                         653     653    Adabas          A S P -
 _  1650  R  11:56.31      655    6551    Ada Cluster(S)  A S P -
 _                        1650    1650    System Coord    A S - -
 _                         652     652    Adabas          A S P -
 _                         640     640    Adabas          A S P -




 Mark with T(asks)
 End of List
  Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Peek  Exit  Refr  Persp                             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.

When the perspective is daemon, this screen displays the network from that daemon's perspective.

You can perform tasks against some node types. For a daemon, you can for example set it to be your current perspective or switch daemon tracing on/off or display daemon trace information etc.

Tasks with *TM*: in the description can only be selected when Adabas Transaction Manager is installed and are described in the Adabas System Coordinator online administration section in Adabas Transaction Manager's Online Services documentation.

```
+---------------------------------------------------------------------+
|                                                                     |
|  11:13:21               Node Operations              2012-03-13     |
|  Current target: 2650  Type: System Coord                           |
|                                                                     |
|  Select one task:                                                   |
|  _ Set your perspective to this daemon                              |
|  _ Trace activation control (ON/OFF): ___                           |
|  _ Trace display                                                    |
|  _ TM: ET data management                                           |
|  _ TM: Set TM distribution transaction timeout                      |
|  _ TM: Stop inactive users (STOPI), dormant for _____  seconds   |
|                                                                     |
|                                                                     |
|                                                                     |
|                                                                     |
|                                                                     |
|                 PF3 Exit    PF5 Perform task                        |
|                                                                     |
+---------------------------------------------------------------------+
```

Mark the required task and press PF5.

For an Adabas nucleus, you can switch tracing on or off or display its trace information:

```
+---------------------------------------------------------------------+
|                                                                     |
|  12:24:35               Node Operations              2011-12-04     |
|  Current target: 17076 NucID 17076 Type: Adabas                     |
|                                                                     |
|  Select one task:                                                   |
|  _ Trace activation control (ON/OFF): ___                           |
|  _ Trace display                                                    |
|                                                                     |
|                                                                     |
|                                                                     |
|                                                                     |
|                                                                     |
|                                                                     |
|                                                                     |
|                                                                     |
|                 PF3 Exit    PF5 Perform task                        |
|                                                                     |
+---------------------------------------------------------------------+
```

Mark the required task and press PF5.

2   You can change the perspective to another daemon or local by pressing PF5:

```
+--------------------------------------------------------------+
|  11:56:09          Change Perspective          2008-05-22  |
|  Current perspective: Daemon (node 650)      C12PSPM1      |
|                                                              |
|  Local:  Shows session monitoring information for this      |
|          job and active targets of the Adabas router        |
|          in use by this job                                 |
|  Daemon: Shows session monitoring information for jobs       |
|          managed by the System Coordinator daemon and        |
|          active targets known to the daemon                 |
|                                                              |
|  Revert to local (node 0)......: x                          |
|  Change to daemon node.........: _____                      |
|                                                              |
|                                                              |
|          PF3 Exit    PF5 Set perspective                    |
|                                                              |
+--------------------------------------------------------------+
```

Select the required perspective and press PF5.

3   Local perspective shows the targets active on the Adabas router that your client session is connected to:

```
11:58:10 ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 (I003) *****  2008-05-22
                       -  Network Discovery  -                      C12300M1
 Run-mode: Local (node 0)                      Perspective: Local (node 0)

 Coord  L Last Update                                   Status
  Node  R (HH:MM.SS)    DBID    Nuc ID      Type        A S P F   Resp Subc
                        61001   61001    Entire Network  A - - -
                        60099   60099    Adabas          A - P -
                          180     180    Unidentified    A - - F
                          640     640    Adabas          A S P -
                          652     652    Adabas          A S P -
                          650     650    System Coord    A S - -
                          651     651    ATM             A S P -
                          655    6551    Ada Cluster(S)  A S P -
                        12000   12000    System Coord    A S - -
                        12002   12002    ATM             A S P -
                        12004   12004    Adabas          A S P -
                        12006   12601    Ada Cluster(S)  A S P -


 End of List
  Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Peek  Exit  Refr  Persp                            Prods Menu
```

4   On systems where the Adabas router uses an SVC, you can use PF2 to "peek" at targets active on another SVC:

```
+-----------------------------------------------------------+
|  12:44:58            Change Router              2011-04-14  |
|  Current perspective: Peeking at SVC 252     C12200M3      |
|                                                           |
|  You can peek into another Adabas router in the local     |
|  computer by entering the SVC number BUT...               |
|  WARNING: If you specify an incorrect SVC, there will     |
|  be unpredictable results such as outage of the whole     |
|  TP service and or transaction failures, loops etc.       |
|                         SVC: 252                          |
|                                                           |
|                                                           |
|                PF3 Exit     PF5 Set peek                  |
|                                                           |
+-----------------------------------------------------------+
```

Enter the required SVC number and press PF5. Take note of the warning and be careful to specify a valid Adabas SVC number.

```
 12:45:27     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2011-04-14
                      -  Network Discovery  -                        C12200M1
 Run-mode: Local plus (node 1660)             Perspective: Peeking at SVC 252
    Coord   L Last Update                               Status
 C   Node  R (HH:MM.SS)     DBID    Nuc ID      Type      A S P F   Resp Subc
 _                         61002    61002   Entire Network  A - - -
 _                           180      180   Unidentified    A - - F
 _                         12001    12001   Unidentified    A - - F
 _                         12003    12003   Unidentified    A - - F
 _                         12005    12005   Unidentified    A - - F
 _                         12006    12602   Unidentified    A - - F




 Mark with T(asks)
 Top of List
 Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Peek  Exit  Refr  Persp              Fwd              Prods Menu
```

Display Daemon information

▶ **To display the daemon information screen from the Session Monitoring menu**

■ Select service 3 or enter the command 2.3 on a command line.

```
12:07:01 ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 (I001) *****  2011-09-01
                        -  Daemon Information  -                 C12300M1
Run-mode: Local plus (node 1660)             Perspective: Daemon (node 1660)
                                Start Time            <----Cluster Moves--->
Coordinator Name  Node  System   (HH:MM.SS)   Sessions      Total   Ave. Size
ICFDCOR4          1660  DA2F      12:19.47          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 information about the daemon being used as perspective. This option is only available when using daemon perspective, because node information is kept in the daemon, not in the local client.

The following information is provided:

Field	Description
Coordinator Name	The name 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.
Sessions	The number of client sessions currently managed by this coordinator daemon.

Field	Description
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.

6 Special Services

Special Services Menu

▶ **To display the Special Services menu**

■   Select service 3 from the main menu.

The following menu will appear:

```
13:15:28     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2011-04-14
                     -  Special Services  -                         C13000M1
Run-mode: Local plus (node 1660)


             Code    Service
             ----    -------------------------------
              0      Runtime Information
              1      Verify System Coordinator Client
              2      Verify System Coordinator Daemon
              3      Fix 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
display runtime information	0	n/a
verify Adabas System Coordinator client installation	1	3.1
verify Adabas System Coordinator daemon installation	2	3.2
access the fix display	3	3.3

Runtime Information

▶ **To display runtime information**

■   Select option 0 from Special Services menu.

```
13:16:55     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2011-04-14
                        -  Runtime  Information  -               C13002M1
Run-mode: Local plus (node 1660)

Job Name  : DA2FCI23   Job Number  : C43489     Job Type: CICS
Group Name: n/a        Service Name: n/a

Configuration File     Database      File         Router
         Primary:          640       190          254
         Alternate:
                        Response code.....: 0        Subcode: 0
                        Retry setting.....: 1000     Current: 0
                        SF148.............: Continue
Critical Products:
Active Products  :     ATM   AFP   AVI




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

The screen shows:

■ Information about the current job and whether it is running in daemon mode

■ The primary and alternate configuration files in use. If the configuration file has not yet been accessed successfully and SF148 is set to "Continue", PF11 is named Retry and can be used to force another attempt to access the configuration file (for example, after the database has been started).

■ Which products are defined as critical for this client job

■ Which products are currently active in this client job

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.

Fix Display

▶ **To display the applied fixes**

■   Select option 3 from Special Services menu.

```
08:36:03      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2010-04-23
               -  Fix Display: COR 8.2.1 Patch: 0000 02/21/09  -      U1FIXOM1
                 Local client job running this current session

  C  Patch Reference Type Description
  _  0000  MI821001  EXE  For example only                                   ↵










     Mark with any character for detail


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

Initially the screen will list all fixes applied to the Adabas System Coordinator kernel in the local client environment.

You can select other display perspectives (e.g. Coordinator daemon or Adabas database) by using PF4. You can also directly list the applied fixes for Adabas Fastpath, Adabas Vista, and Adabas Transaction Manager by using PF11 to first select the appropriate product.