software AG

Adabas System Coordinator

Adabas System Coordinator Online Services

Version 8.2.2

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ADABAS & NATURAL

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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 *****      2016-12-03
                         -  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 sys-
> tems 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 *****      2016-04-13
                     -  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 *****       2016-04-13
                      -  System Settings  -                             C10000M1
 Run-m +-----------------------------------------------------------------+
       |  17:08:36            LFILE 152 Maintenance          2016-04-13  |
       |                                                     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 *****     2016-04-13
                         -  Main Menu  -                            C1MAINM1
 Run-m +-------------------------------------------------------------------+
       |  17:12:05             SAF Security Settings        2016-04-13  |
       |                                                   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 *****      2016-12-03
                        -  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 behavior of these products in a given job. You can adjust this behavior 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 *****      2016-12-03
                     -  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 *****      2016-12-03
                   -  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 *****      2016-12-03
                   -  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 *****      2016-12-03
                  -  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:

```
 15:41:23 ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 (I001) *****  2016-08-29
                  -  System Coordinator Runtime Controls  -         U11310M5
 Run-mode: Pulsing (node 2660)
 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...............: _____   Daemon connection messages (Y/N): N
   Area.....................: _____   System...................: _____
                                          Review.: N   Client Monitor.: N


 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 *****      2016-03-13
                 - 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__   Daemon connection messages (Y/N): N
   Area.....................: _____    System....................: _____
                                         Review.: N   Client Monitor.: N


 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 *****    2016-03-13
                - 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__   Daemon connection messages (Y/N): N
  Area.....................: _____    System...................: _____
                                         Review.: N   Client Monitor.: N


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

7 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 *****      2016-12-03
                - 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        2016-12-03    |
|                  -  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 inform-

ational 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         2016-07-21  !
!                          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 .

- Use unified trace settings to define trace requirements for this client job. For more information, please refer to Using the Unified Trace.

8   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 *****      2016-12-03
                   -  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
```

9   Enter the jobname and press PF5:

```
18:35:06     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2016-12-03
                   -  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
```

10 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.

11 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 initialization. This is particularly relevant to batch jobs that process relatively few Adabas commands.

12 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 *****      2016-03-13
                  -  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...............: _____   Daemon connection messages (Y/N): N
   Area.....................: _____    System....................: _____
                                         Review.: N   Client Monitor.: N


 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

A client job's base client runtime controls are actioned during job initialization, and any override controls are then applied accordingly.

If a change to the base client runtime controls is subsequently made then the client job will need to be restarted to action the change.

If a change to an override runtime control is made then the Adabas System Coordinator will dynamically detect the change. There may be a delay between the change being made and the session actioning these changes. Please refer to **Dynamic Client Runtime Configuration for Experts** for more information.

≫ **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 *****     2016-03-12
               -  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...............: _____    Daemon connection messages (Y/N): N
   Area.....................: _____    System...................: _____
                                          Review.: N   Client Monitor.: N


 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 *****        2016-03-08
                  -  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     2016-07-21 !
!         Runtime Control U11340M1   !
!                                    !
!      Type: Batch                   !
!      Name: CORQO200                !
!                                    !
!      _   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    2016-07-21 !
!         Runtime Control U11350M1   !
!                                    !
!                                    !
!        Type: Batch                 !
!                                    !
!        Name: CORQO200              !
!                                    !
!    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      2016-07-21 !
!          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 *****      2016-07-21
                - 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 *****     2016-12-03
            -  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 *****     2016-07-21
            -  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 *****      2016-12-03
           -  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

There are several ways to dynamically modify the client runtime controls for one or more sessions:

- **CORENV**
- **Dynamic Overrides**
- **ADABAS Client Session Task: Controls**

📄 **Notes:**

1. By using the PF11 method of selecting different products, this means of modifying runtime controls also applies to other products as well as Adabas System Coordinator.

2. Some dynamic changes may take some time to take effect depending upon the product/control in question.

CORENV

In order to make a dynamic change to the client runtime controls that will only affect the current session, enter CORENV and use PF11 to select the required product as in the following example.

```
18:49:59     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2016-12-03
                          -  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
```

The current Adabas System Coordinator runtime controls in effect for your session are displayed:

```
 16:09:27              ***** CURRENT SESSION CONTROLS *****              2016-03-12
                   -  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   Daemon connection messages (Y/N): N
   Area.....................: _____    System...................: _____
                                         Review.: N   Client Monitor.: N


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

Use PF11 to select the required product and modify the controls as required.

Dynamic Overrides

In order to make a dynamic change to the client runtime controls that will affect all current sessions and all future sessions, either create or modify a client runtime control override. Please refer to *Maintain Client Runtime Control Overrides* for more information.

When a client runtime control override is created it will inherit the base client runtime controls for the job, but some fields are modifiable. Any modifications to a client runtime control override will be dynamically picked up, after a short time delay, by the Adabas System Coordinator.

ADABAS Client Session Task: Controls

Please refer to *Expand Adabas client sessions* for information on how to use the task "Controls" to modify the client runtime controls for a selected session.

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 Member 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 *****     2016-12-04
                        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                     2016-12-04    |
|                     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         2016-03-08     |
|                      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                  2016-12-04  |
|                    System Coordinator Group         C11230M1    |
|                                                                 |
|           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      2016-03-08   |
|                    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      2016-03-08    |
|                     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            2016-09-01   |
|        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            2016-09-01  |
|         System Coordinator Group   C11250M1        |
|                                                    |
|            Group Name: TESTMULT                     |
|                                                    |
|              New Name: _____                     |
|                                                    |
|          PF5 to Confirm Rename                      |
|                                                    |
|                                                    |
|    Command ==>                                      |
|       PF1 Help     PF3 Exit    PF5 Upd              |
|                                                    |
+----------------------------------------------------+
```

Maintain a Daemon Group Member Definition

≫ To maintain a daemon group member definition

1   On the System Coordinator Daemon 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 *****      2016-12-04
                         -  Daemon Parameters (COR)  -            C11260M1
 Run-mode: Pulsing (node 2650)
Group Name: WORKSHOP                              Operating System: Multi      ↵

    SVC ID: 254
                    Daemon
     C          Job Name           Node ID
     _          ICFDCOR5           2650_          <== Top of List
     _          ICFDCOR6           2660_          <== 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   Prods Menu
```

2   From this screen, you can

- Use PF11 to select the product whose daemon group member parameters you wish to maintain.

- Purge a daemon group member by entering "p" in the C column adjacent to the Daemon Job Name entry;

- change the daemon group member job name or node id by overtyping it and pressing PF5;

- add a new daemon group member entry by pressing either PF5 or PF10; or

- modify a daemon group member entry by entering m in the C column adjacent to the entry to be modified.

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

For each daemon group member, specify the following:

- Daemon Job Name: The name of the job or started task that will run the Adabas System Coordinator daemon group member (SYSCO).

- Node ID: The Adabas Node ID (target) used to identify the daemon group member to the network.

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

4   Entering m against a daemon group member presents the product specific parameter modification screen.

Maintaining Adabas System Coordinator daemon parameters:

```
16:48:45 ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 (I008) *****  2016-07-22
              -  Adabas System Coordinator Daemon Parameters   -       C11261M1
 Run-mode: Pulsing (node 17004)
 Group: WORKSHOP   Daemon: ICFDCOR5   SVC: 254   Node: 2650     System: Multi
   Recovery
     Continuous Operation (Y/N).......: N
   Daemon latency/pulse services
     Shared memory area size (k)......: 2000____    Minimum (k): 0_____
           Dataspace name (if used)..: _____



   Unified trace settings
     Trace collection (Y/N)...........: N
     Local trace memory (k)...........: 0___ (0=none minimum=32 maximum=1024)
     Use trace file (Y/N).............: Y
     Wraparound trace file when full..: Y
   Debug settings
     CORDUMP for transient situations.: N  Number of outputs: 0____


 Command ==>



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

Please refer to Daemon Group Member Parameters for information on the available parameters.

Maintaining Adabas Transaction Manager daemon parameters:

For more information refer to the *How to maintain TM controls* section in *Adabas Transaction Manager Online Services* documentation.

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 *****      2016-03-06
                  -  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         2016-05-22          |
|  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        2016-05-22            |
|  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        2016-12-04 |
|  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 *****      2016-03-06
                 -  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

```
17:16:40 ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 (I001) *****  2016-08-29
                    - Adabas Client Job Information  -          C12100M1
 Run-mode: Pulsing (node 2660)                 Perspective: Daemon (node 2660)
                                       Number      Current
 C  Service    Job Name  Job Num.    of commands   Sessions   Area     System
 _   None      DA2FCI23  C34504          34,678        3














 Mark with any character to expand or D(isplay),T(asks),J(obs)
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 ■ J: list the jobs which comprise a clustered application service ■ Any other non-blank character lists session information.
Service	The service name for a clustered application.
Job Name/Job Num	The job name and job number.
Number of commands	The number of Adabas commands issued by the job.
Current Sessions	The number of user sessions active in the job.
Area/System	The site-dependent settings for this job.

Display Job Information

Selecting Display results in the following screen being displayed:

```
17:19:24 ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 (I001) *****  2016-08-29
                 -  System Coordinator Job Statistics  -          U1JOSOM1
 Run-mode: Pulsing (node 2660)                 Perspective: Daemon (node 2660)
 Job Name: DA2FCI23


      No. of commands:                                   34,703
      Thread peak information:
          Session size:                                    80K
          Workarea size:                                   76K
          Total:                                          199K
     Consolidated thread information
          Current number of threads                          3
          Maximum number of threads                         12
          Current memory usage (all threads)              158K
          Maximum memory usage (all threads)            1,174K
      Area:
      System:








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

This screen displays:

■ the total number of Adabas commands seen by System Coordinator in this job

■ peak thread size information for session-related memory, temporary workarea and total thread size

■ current and maximum number of threads and memory usage across threads

■ the site-dependent area/system settings for the job.

Pressing PF10 lists the job's sessions (see **Display Session Information**).

Tasks

This function gives a task selection window. Mark the selected task and press Enter to perform the task:

```
+-------------------------------------------------------------------+
|  17:31:58          Adabas Client Job Tasks          2016-10-25  |
|  Job name: DAEFCI18 number: C46891                              |
|                                                                 |
|  Select one task:                                               |
|  _ Snap                                                         |
|                                                                 |
|                                                                 |
|                                                                 |
|                                                                 |
|                                                                 |
|                                                                 |
|                                                                 |
|                                                                 |
|                                                                 |
|                                                                 |
|             PF3 - Exit     Enter - Perform task                 |
|                                                                 |
+-------------------------------------------------------------------+
```

Snap:

Output will be written to `CORDUMP`. Currently this is the only task available. This task should normally only be used under guidance from Software AG Customer support.

> **Note:** A Snap request issued in daemon perspective will only be actioned following (any) client activity in the selected job and then only if that job is using daemon latency (refer to Latency Controls for information on job latency options).

Jobs

This function is only available for clustered application services and lists the jobs which are currently active in that clustered application.

```
17:10:03 ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 (I001) *****  2016-08-29
                      -  Adabas Client Service Jobs  -            C12140M1
 Run-mode: Daemon (node 10005)                 Perspective: Daemon (node 10005)
 Service : IMS82TST                 Number
    Job Name     Job Num.       of commands     Area          System
    DAEFCI18     C34751              93,653
    DAEFCI23     C34749              56,475




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

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

```
08:25:25 ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 (I008) *****  2016-10-23
                  -  Adabas Client Logon id Information  -          C12102M1
Run-mode: Daemon (node 2650)                  Perspective: Daemon (node 2650)


C  Login id                  Number        Number        Total
   *_____                of sessions    of jobs       commands
_  UKSJU                        3             1            2,225

















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                                            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
C	Enter any non-blank character to list session information for this login id (see **Display Session Information**.)
Login id	The login id. Use the selection field to 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.
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:

```
17:23:36 ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 (I001) *****  2016-08-29
                   -  Display Session Information  -           C12130M1
Run-mode: Pulsing (node 2660)               Perspective: Daemon (node 2660)
Service: None     Job: DA2FCI23 C34504    ID: CI23     Commands:        34,711
Sessions: 3          Session size: 80K     Work size: 76K    Total: 199K
C      Session id    Login id      Number
    *_____                      of commands Area    System         Status       ↵

_   TCM9    DA2FCI23 TEAM1              198                    running in Adabas
_   TCN0    DA2FCI23 TEAM2            4,972                          at rest
_   TCN1    DA2FCI23 TEAM3           23,489                          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                          JobID              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
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. Use the selection field to reposition the display. In local perspective: Show only the terminal identity specified. 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. In daemon perspective:

Field	Description
	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. **Note:** To reposition to a CICS asynchronous task, enter the five-digit task number with leading zeros.
Login ID	The login id of the session.
Number of commands	The number of Adabas commands issued by the session.
Area/System	The site-dependent settings for this session.
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 around : ■ the session status. ■ the job in which the session is active. ■ the transaction code used by the session. ■ the time since the session was last active.

Mark a session with one of the commands shown:

■ T: perform tasks against the session

```
+------------------------------------------------------------------+
|  17:33:03          Client Session Tasks          2016-10-25  |
|  Job name: DAEFCI18 Session ID: TCCN    DAEFCI18             |
|                                                              |
|  Select one task:                                            |
|  _ Snap                                                      |
|  _ Switch debug on/off                                       |
|  _ Purge                                                     |
|                                                              |
|                                                              |
|                                                              |
|                                                              |
|                                                              |
|                                                              |
|             PF3 - Exit    Enter - Perform task              |
|                                                              |
+------------------------------------------------------------------+
```

Select the required task and press Enter to perform it.

■ Snap

Output will be written to CORDUMP. This task should normally only be used under guidance from Software AG Customer support.

> **Note:** A Snap request issued in daemon perspective will only be actioned following activity by the selected client and then only if the client's job is using daemon latency (refer to Latency Controls for information on job latency options).

■ Switch debug on/off

Activate or deactivate client debug monitoring for a session.

■ Purge

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      2016-10-09  |
|                                 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:

```
17:39:38 ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 (I001) *****  2016-08-29
 Job Name: DA2FCI23   - Display Session Information  -           C12136M1
 Run-mode: Pulsing (node 2660)             Perspective: Daemon (node 2660)
 Session ID: TCN1    DA2FCI23 Hex: E3C3D5F100000000C4C1F2C6C3C9F2F3


                    Status: at rest
 Terminal name...............: TCN1      Network name................: DAEETCN1
 Login id....................: TEAM3     Task number.................: 280
 Activity pulses to WORKSHOP : 3367      Transaction code............: PRAD
 Latency writes..............: 120       Reads.......................: 119
 Thread information...Session: 7K        Workspace...................: 14K
 Area........................:           System......................:
 ADAMODE sessions:
 C  Adabas Session Identity            Hex
 _  CICSTCN1   00000000000000000000000000000000000000000C3C9C3E2E3C3D5F1




 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 pulses	When "Run-mode: Pulsing" is active, this shows the number of times this session has transmitted information to the daemon.
Transaction code	The transaction code in use by this session.
Latency writes/reads	The number of message pairs executed by this session.
Thread information Session/Workspace	The current sizes of this session's session and work areas.
Area/System	The site-dependent settings for this session.

Field	Description
ADAMODE sessions	The Adabas sessions that are active and visible in the current Perspective.

> **Notes:**

1. If the client runtime controls are set to use "Latency - Local = Y" then there will no Adabas sessions visible for that job when using "Perspective: Daemon".

2. If the client runtime controls are set to use "Latency - Daemon =Y" then there will be no Adabas sessions visible for that job when using "Perspective: Local".

To change Perspective, please refer to **Change Perspective** for more information.

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 session:

```
+----------------------------------------------------------------+
|  17:34:40       Adabas Client Session Tasks      2016-10-25    |
|  Job name: DAEFCI18 Session ID: TCCN    DAEFCI18               |
|  Adabas session id: CICSTCCN Hex:                             |
|  00000000000000000000000000000000000000C3C9C3E2E3C3C3D5        |
|                                                                |
|  Select one task:                                             |
|  _ Controls                                                   |
|  _ Trace                                                      |
|  _ Purge                                                      |
|                                                                |
|                                                                |
|                                                                |
|                                                                |
|                                                                |
|            PF3 - Exit    Enter - Perform task                 |
|                                                                |
+----------------------------------------------------------------+
```

Select the required task and press Enter to perform it.

■ Controls: display or modify client runtime controls for an Adabas session.

Controls can only be displayed when using:

■ "Perspective: Local", or

■ "Perpective: Daemon" and the session being viewed has had its client runtime controls dynamically modified.

If the Controls can be displayed then initially you are presented with System Coordinator's controls:

```
 12:00:15              ***** CURRENT SESSION CONTROLS *****              2016-12-04
                   -  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.....:
   Latency - Daemon (Y/N)...: N
            to disk........: N
   Activity pulse every.....: 1000    commands or 10    seconds
   Group name...............: WORKSHOP   Daemon connection messages (Y/N): N
   Area.....................: _____    System...................: _____
                                          Review.: N   Client Monitor.: N



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

Otherwise you are presented with a screen that will indicate where to find the runtime controls that are currently being used by the session.

To display or modify controls for another product, press PF11 until the required product appears (refer to the appropriate product's documentation for descriptions regarding their client runtime controls).

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.

Controls may only be modified if "Latency – Local = Y" and "Perspective: Local" are used.

▪ Trace: display the unified trace for this Adabas session:

Trace information can only be displayed when using:

▪ "Perspective: Local", or

▪ "Perspective: Daemon" and the runtime controls of the job whose session is being viewed has "Latency – Daemon = Y".

```
+------------------------------------------------------+
|  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 *****      2016-12-04
                           -  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 *****     2016-12-04
                            -  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              2016-04-14 |
|                                                              C1213ZM1    |
| Session ID: CICSTC95                                                     |
|        Hex: 00000000000000000000000000000000000000C3C9C3E2E3C3F9F5       |
|                                                                         |
|                                                                         |
|                         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                           |
|                                                                         |
+-------------------------------------------------------------------------+
```

Marking an Adabas session identity with any other non-blank character displays information about this Adabas client:

```
12:11:59     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2016-12-04
                - 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               |
|                                 |
+---------------------------------+
```

■ List Accessed Databases

```
12:25:01     ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****     2016-04-14
                    - List Accessed Databases -                    U1TSK1M1

 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                                            Menu
```

■ TM: Stop Adabas UQEs

> **Note:** Selectable only when Adabas Transaction Manager is active.

For more information refer to the *How to stop Adabas sessions* section in *Adabas Transaction Manager Online Services* documentation.

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 (refer to the *Activity display for client sessions* section in the appropriate product's documentation for descriptions regarding their session statistics).

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 *****        2016-04-14
                          - 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 by marking them with a "T" and a window will indicate the operations available.

> **Note:** Some tasks are only selectable when the appropriate product is installed. For example, tasks beginning with "TM:" are only available with Adabas Transaction Manager.

For Coordinator daemon nodes in the network:

```
+------------------------------------------------------------------+
|  17:36:02              Node Operations             2016-10-25   |
|  Current target: 2650  Type: System Coord                       |
|                                                                  |
|  Select one task:                                               |
|  _ Set your perspective to this daemon                          |
|  _ Trace Control                                                |
|  _ 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    Enter - Perform task                 |
|                                                                  |
+------------------------------------------------------------------+
```

Mark the required task and press Enter.

Field	Description
Set your perspective to this daemon	Display the network from the perspective of this daemon.
Trace Control	Display/Modify unified trace settings. For more information refer to Using the Unified Trace.
Trace activation control	Turn the daemon trace on or off.
Trace display	Display the daemon trace content.
TM: ET data management	For more information refer to the *ET Data Management* section in *Adabas Transaction Manager Online Services* documentation.
TM: Set TM distribution transaction timeout	For more information refer to the *How to dynamically change the TM distributed transaction timeout* section in *Adabas Transaction Manager Online Services* documentation.
TM: Stop inactive users (STOPI)	For more information refer to the *How to stop inactive Adabas sessions* section in *Adabas Transaction Manager Online Services* documentation.

For Adabas nodes in the network:

```
+------------------------------------------------------------------+
|  17:37:48                Node Operations               2016-10-25  |
|  Current target: 17075 NucID 17075 Type: Adabas                  |
|                                                                  |
|  Select one task:                                                |
|  _ Trace Control                                                 |
|  _ Trace display                                                 |
|                                                                  |
|                                                                  |
|                                                                  |
|                                                                  |
|                                                                  |
|                                                                  |
|                                                                  |
|                                                                  |
|                                                                  |
|                PF3 - Exit    Enter - Perform task                |
|                                                                  |
|                                                                  |
+------------------------------------------------------------------+
```

Mark the required task and press Enter.

Field	Description
Trace Control	Display/Modify unified trace settings. For more information refer to Using the Unified Trace.
Trace display	Display the Adabas trace content.

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

```
+---------------------------------------------------+
|  11:56:09         Change Perspective      2016-05-22  |
|  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) *****  2016-05-22
                       -  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           2016-04-14  |
|  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 *****        2016-04-14
                       -  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) *****  2016-09-01
                        -  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.
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 *****      2016-04-14
                       -  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 *****      2016-04-14
                       -  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 *****      2016-04-23
              - 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.