

Adabas System Coordinator

Adabas System Coordinator Online Services

Version 8.2.2

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Adabas System Coordinator

This document applies to Adabas System Coordinator Version 8.2.2.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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1 Adabas System Coordinator Online Services

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

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

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

Online Services Main Menu

▶ To invoke Adabas System Coordinator Online Services

- log on to SYSCOR and enter the command `MENU`.

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

| Run Mode | Description |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coordinator not installed | The Adabas link module does not contain the Coordinator stub. Local session information will not be available but all other functions will work. |
| Local (node 0) | The TP system in use is running in local (non-daemon) mode. By default, session information will be obtained locally. |
| Daemon (node <i>nnn</i>) | 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 <i>nnn</i>) | The TP system in use has been configured to send session activity statistics to the daemon Node ID displayed. By default, session information will be obtained from the daemon and can be viewed from any other TP system by setting the perspective to the daemon Node ID displayed. DTR is not possible for TP systems defined to run in pulsing mode. |
| Startup | The Adabas link module contains the Coordinator stub, however the database containing the Coordinator configuration file is not yet available. The Coordinator periodically retries access to the configuration file until it becomes available. |

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

The Main Menu screen will then appear:


```

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

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

Code..: _


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

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

```

The following options are available:

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

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

Navigation

You can access screens in two ways:

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

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

| Function | Object | Command |
|---------------------------|-----------------------------------------------|---------|
| System Settings | Menu | 0 |
| | LFILE 152 Maintenance | 0.1 |
| Maintenance | Menu | 1 |
| | Client Runtime Controls | 1.1 |
| | Daemon Groups | 1.2 |
| Current Activity Displays | Menu | 2 |
| | Display Adabas Client Jobs | 2.1 |
| | Network Discovery | 2.2 |
| | Display Daemons in a Daemon Group | 2.3 |
| Special Services | Menu | 3 |
| | Verify System Coordinator Client Installation | 3.1 |
| | Verify System Coordinator Server Installation | 3.2 |
| | Display Applied Fixes (Zaps) | 3.3 |

Using PF Keys

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

The following keys apply throughout the system:

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

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

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

Help Information

▶ To invoke Adabas System Coordinator help information

- Press PF1.

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

You can navigate by entering

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

If the help screen comprises multiple pages, you can enter

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

3 System Settings

- System Settings Menu 10
- Configuration File (LFILE 152) Maintenance 11
- SAF Security Settings 12

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

System Settings Menu

▶ To display the System Settings menu

- Select service 0 from the main menu.

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

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

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

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

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

Configuration File (LFILE 152) Maintenance

▶ To customize the use of LFILE 152

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

```

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

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

```

- 2 The LFILE 152 Maintenance window appears.
- 3 In the Original LFILE field, the database and file number are displayed for the configuration file that was allocated to LFILE 152 at the start of your current SYSCOR session.

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

- 4 These values were allocated to LFILE 152 using the static Natural parameter `NTLFILE ID=152, . .` or the dynamic Natural parameter `LFILE=(152, . .)`. For more information about specifying LFILE 152, see the installation instructions relevant to your operating system.
- 5 In the Current LFILE field, you can change the database and file number to access a different configuration file. Specify the new configuration file database and file number, if necessary.

- 6 Review the default settings.

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

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

SAF Security Settings

▶ **To customize SAF Security settings:**

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

```

17:12:02      ***** A D A B A S  SYSTEM COORDINATOR 8.2.2 *****      2011-04-13
                  - Main Menu -                                     C1MAINM1
Run-m +-----+
| 17:12:05          SAF Security Settings          2011-04-13      |
|                                                    U1SAFSM1      |
|                                                    |
| Protect SYSCOR with SAF Security: N (Y/N)        |
| System Coordinator Daemon Group : _____    |
|                                                    |
| Action if no daemon available (mark one):        |
|   Disallow all functions: _                      |
|   Allow read functions only: _                   |
|   Allow all functions: _                         |
|                                                    |
|                                                    |
| PF3 Exit          PF5 Update/Confirm            |
You c |
PF11, +-----+
Command ==> 0.2
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help          Exit                                     Prods Vers  ←
    
```

- 2 The SAF Security Settings screen appears.
- 3 By default, “Protect SYSCOR with SAF Security” appears as N. To activate SAF protection for SYSCOR:

- Set “Protect SYSCOR with SAF Security” to Y

- Specify the name of the System Coordinator group that contains the daemon configured for Adabas SAF Security. The group and daemon must already be defined (see the Adabas System Coordinator documentation section Maintain Daemon Groups).
 - Select the desired behavior when no daemon is available or the security service in the daemon is not available:
 - Disallow all functions:

SYSCOR cannot be used until the daemon security service is available
 - Allow read functions only:

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

SYSCOR can be used without restriction.
- 4 You must restrict who has update access to COR.SETTINGS. Anyone with update access can deactivate SAF security checking, or switch to a configuration file with no SAF security settings
 - 5 In an emergency (for example, wrong security definitions or the daemon is unexpectedly unavailable and you selected “Disallow all functions”), you can sign on to Natural as user DBA and set “Protect SYSCOR with SAF Security” to N until the emergency has passed. Security checking of SAF Security Settings is bypassed for user DBA. Obviously you should restrict access to user DBA.

4 Maintenance

- Maintenance Menu 16
- Maintain Client Runtime Controls 17
- Maintain Daemon Groups 41

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

Maintenance Menu

▶ **To display the Maintenance menu**

- Select service 1 from the main menu.



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

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

                Code      Service
                ----      -
                1         Client Runtime Controls
                2         Daemon Group Parameters
                .         Exit
                ----      -

Code.....: _

Command ==>

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

| From this menu, you can | Service | Cmd |
|--------------------------------------------------------|---------|-----|
| maintain client runtime controls | 1 | 1.1 |
| maintain daemon group parameter values | 2 | 1.2 |

Maintain Client Runtime Controls

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

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



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



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

- [List Runtime Controls](#)
- [Add a Runtime Control](#)
- [Maintain Runtime Controls](#)

List Runtime Controls

▶ To display a list of existing definitions

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

```

18:08:21      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2011-12-03
              - Client Runtime Controls (COR) -                          U11300M1
Run-mode: Pulsing (node 2650)                               Reposition to Type: _____
                                                         Name: _____

              Client Controls
C Type       Name       AFP  AVI  ATM  COR       Comments
_ CICS (DTR)  CICCLUST  Y    Y    Y    Y         Overrides,Info
_ Batch      CORP****  Y    Y    Y    Y
_            *DEFAULT  Y    Y    Y    Y
_            CORQ0100  Y    Y          Y
_            CORQ0200  Off  Y    Y    Y
_ COM-LETE   DAEFCODE  Y    Y    Y    Y
_ TSO        *DEFAULT  Y    Y    Y    Y

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

```

- 2 The list shows the service or job type, the name and for which products controls are defined. The Comments column shows whether overrides or site information are defined for this service/job.
- 3 The name identifies the service or job to which these controls apply. A service is a collection of jobs which form a single DTR cluster, for example CICSplex, CICS/MRO with Dynamic Transaction Routing, IMS TM or UTM. For jobs, the name may be a wildcard or you can specify a set of default controls for jobs of that type.
- 4 Taking the above example:
 - any batch job with a name beginning CORP will use the controls defined for CORP****
 - job CORQ0100 will use its own controls (but it will use the Adabas Transaction Manager controls defined for *DEFAULT, because there are none defined for CORQ0100)
 - job CORQ0200 will use its own controls and Adabas Fastpath is disabled for this job
 - any other batch job will use the controls defined for *DEFAULT
- 5 If you wish to display or modify controls or overrides for one of the other products, press PF11 until the required product appears in the screen title and message line:

```

18:10:27      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2011-12-03
              - Client Runtime Controls (AFP) -                          U11300M1
Run-mode: Pulsing (node 2650)                                Reposition to Type: _____
                                                         Name: _____

              Client Controls
C Type      Name      AFP  AVI  ATM  COR      Comments
_ CICS (DTR)  CICCLUST  Y    Y    Y    Y      Overrides,Info
_ Batch      CORP*****  Y    Y    Y    Y
_            *DEFAULT  Y    Y    Y    Y
_            CORQ0100  Y    Y          Y
_            CORQ0200  Off  Y    Y    Y
_ COM-LETE   DAEFCODE  Y    Y    Y    Y
_ TSO        *DEFAULT  Y    Y    Y    Y

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

```

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

Add a Runtime Control

▶ To add a new definition

- 1 Press PF10 from the Client Runtime Controls list.

The following window will appear:

```

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

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

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

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

```

2 Select a job type for the job from the list provided.

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



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

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

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



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

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


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

      Type: CICS (DTR)
      Name: _____

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

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

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

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

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

```
15:41:23 ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 (I001) ***** 2012-08-29
          - 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.....: _____

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

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

```

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

Latency - Daemon (Y/N)...: Y
          to disk.....: N
Activity pulse every.....: _____ commands or _____ seconds
Group name.....: DEMO82___ Daemon connection messages (Y/N): N  ←
Area.....: _____ System.....: _____  ←

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

```

6 Press PF5 again to add the control.

```

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

Latency - Daemon (Y/N)...: Y
          to disk.....: N
Activity pulse every.....: _____ commands or _____ seconds
Group name.....: DEMO82___ Daemon connection messages (Y/N): N ↵
Area.....: _____ System.....: _____ ↵

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

```

You can now:

- Modify the values and press PF5 to update them
- Press PF3 to return to the list
- Press PF12 to return to the main menu
- Press PF10 to define permissible API controls (these will only be honoured if you also set API runtime overrides to Y). Enter the names of up to 64 API controls, which must already be defined, and press PF5

```

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

The following API runtime overrides are allowed:

-----
-----
-----
-----
-----
-----
-----
-----

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

```

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

```

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

```

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

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

```

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

```

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

```

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

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

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

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

```

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

1. Size of in-memory trace buffer.
2. Trace collection; local trace file is only available for batch-type jobs and forward to the daemon trace file is only available for jobs defined to use a daemon
3. Adabas response code and sub-code that cause trace data to be written and whether or not generic errors trigger tracing
4. Whether or not to trigger a debug event on response code trace activation

```
18:25:48      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2011-12-03
              - Unified Trace Settings -                               UISCTRM1
                                                                 ←
Trace size (KB): 0_ (no tracing = 0; maximum = 32)
                                                                 ←
                                                                 ←
Trace collection (mark one)
                                                                 ←
No collection.....: X
                                                                 ←
In memory only.....: _
                                                                 ←
Local trace file.....:
                                                                 ←
Forward to the daemon trace file....: _
                                                                 ←
                                                                 ←
Dynamic options
                                                                 ←
Limited debug trace:
                                                                 ←
Response code trace activation....: 0__
                                                                 ←
Sub-code.....: 0____
                                                                 ←
Generic error response codes (Y/N): N
                                                                 ←
Debug event activation (Y/N).....: N
                                                                 ←
                                                                 ←
                                                                 ←
                                                                 ←
                                                                 ←
Command ==>
                                                                 ←
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help           Exit           Upd
                                                                 ←
```

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


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

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

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

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

8 Enter the jobname and press PF5:

```


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

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

This is a standard type of runtime.

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

```

- 9 A job name may contain one or more asterisks (*) to indicate a wild card. For example, the runtime control with the name CICS**PR will be found by any job with the value "CICS" in positions 1-4 and the value "PR" in positions 7-8, no matter what the characters are in positions 5-6. If an asterisk (*) is the last character in a job name, the remainder of positions in the name through the eighth are padded with asterisks. A single asterisk indicates that is the default definition for this job type.
 - 10 Controls are always matched on type. The order of search within type is
 1. Match on exact job name.
 2. Match on wild card definitions.
 3. Use the default for the job type, if one has been defined.
-  **Note:** The number of wild card job names defined for a job type has a direct effect on the number of Adabas commands needed to establish the runtime controls at initialization. This is particularly relevant to batch jobs that process relatively few Adabas commands.
- 11 Different control types have different settings and different default values. Make any required changes and press PF5 to add the definition. You can then define API overrides and additional options or return to the list, as described in 6.

```

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

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

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

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

```

Maintain Runtime Controls

▶ To maintain a job parameter

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

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

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

- [Modify Runtime Control](#)

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

Modify Runtime Control

▶ To modify a runtime control:

- 1 Select it from the list by marking column C with an “m”.

```

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

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

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

- 2 Make any necessary modifications.
- 3 Use PF9 to modify additional options.
- 4 Use PF10 to modify the list of permissible API overrides.
- 5 Press PF5 to confirm your changes or PF3 to exit.

List jobs in Runtime Control

▶ To list jobs in a runtime control:

- 1 Select it from the list by marking column C with a “j”.

```

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

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

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

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

```

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

Purge a Runtime Control

▶ To purge a runtime control

- 1 Select it from the list by marking column C with a “p”.

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

- 2 Mark which products’ runtime controls you wish to purge or All to purge the entire control.
- 3 Press PF5 to confirm

Rename a Runtime Control

▶ To rename a runtime control

- 1 Select it from the list by marking column C with a “r”.

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

- 2 Specify the new name, which must not already exist.
- 3 Press PF5 to confirm

Copy a Runtime Control

▶ To copy a runtime control

- 1 Select it from the list by marking column C with a “c”.

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

- 2 Mark which products' runtime controls you wish to copy.
- 3 Specify the job name to which these runtime controls will be copied, which must not already exist.
- 4 If you select All, you may also copy any defined overrides by entering Y against Copy Overrides.
- 5 Press PF5 to confirm

Maintain Site Information

 **To maintain site information**

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


```

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

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

Site Information
-----

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

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

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

```

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

Maintain Client Runtime Control Overrides

▶ To list runtime control overrides

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

```

18:45:25      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2011-12-03
              - Client Runtime Controls Override Summary (COR) -      U11380M1
Run-mode: Pulsing (node 2650)                      Reposition to Type: _____
Type: CICS (DTR)   Name: CICCLUST                      Name: _____

              Overrides
C Type          Name          AFP  AVI  ATM  COR          Comments
_ Transaction   N426                Y      Y

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

```

- 2 This screen lists the runtime control overrides that have been defined for each product.
- 3 To add a new override, press PF10, mark the type of override you want to add and provide a name:

```

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

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

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

and specify the override name: natp_____

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

```

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

```

18:47:13      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2011-12-03
              - Client Runtime Controls Override Summary (COR) -      U11380M1
Run-mode: Pulsing (node 2650)                      Reposition to Type: _____
Type: CICS (DTR)   Name: CICCLUST                      Name: _____

              Overrides
C Type      Name      AFP  AVI  ATM  COR      Comments
_ Transaction NATP
-           N426          Y      Y

```

Mark with Modify,Purge,Rename,Copy,Information

Command ==>

```

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

```

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

| | |
|---|------------------|
| m | modify |
| p | purge |
| r | rename |
| c | copy |
| i | site information |

- 6 These options are the same as the ones available for maintaining client runtime controls except that they maintain the override controls rather than the base level controls.
- 7 Use PF11 to select the product for which you want to define or modify an override.

Dynamic Client Runtime Configuration for Experts

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



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

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

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

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

Command ==> corenv

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

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

```

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

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

Command ==>

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

```

Maintain Daemon Groups

This section describes how to add/maintain daemon groups.

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

The daemon group defines the types of applications to be managed and the node numbers of the daemons that will manage those applications. One daemon must be active on each operating system image that hosts the application. Any application job can then be defined to this group using the Client Runtime Controls function of SYSCOR, SYSAVI, SYSAFP, or SYSATM Online Services.

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

- Maintain a Daemon Group Daemon Definition

Main Menu

▶ To invoke the daemon group maintenance menu

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

```

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

C Group Name   Type      SVC ID   Daemons
_  DEM082      Multi     254      2
_  TSTGROUP    Single    253      1

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

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

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

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

- 3 Use PF10 to add a new group definition

Adding a Daemon Group Definition

▶ To add a new daemon group definition

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

```

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

```

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

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

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

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

- 4 In the fields System Type, specify whether the group is to coordinate:

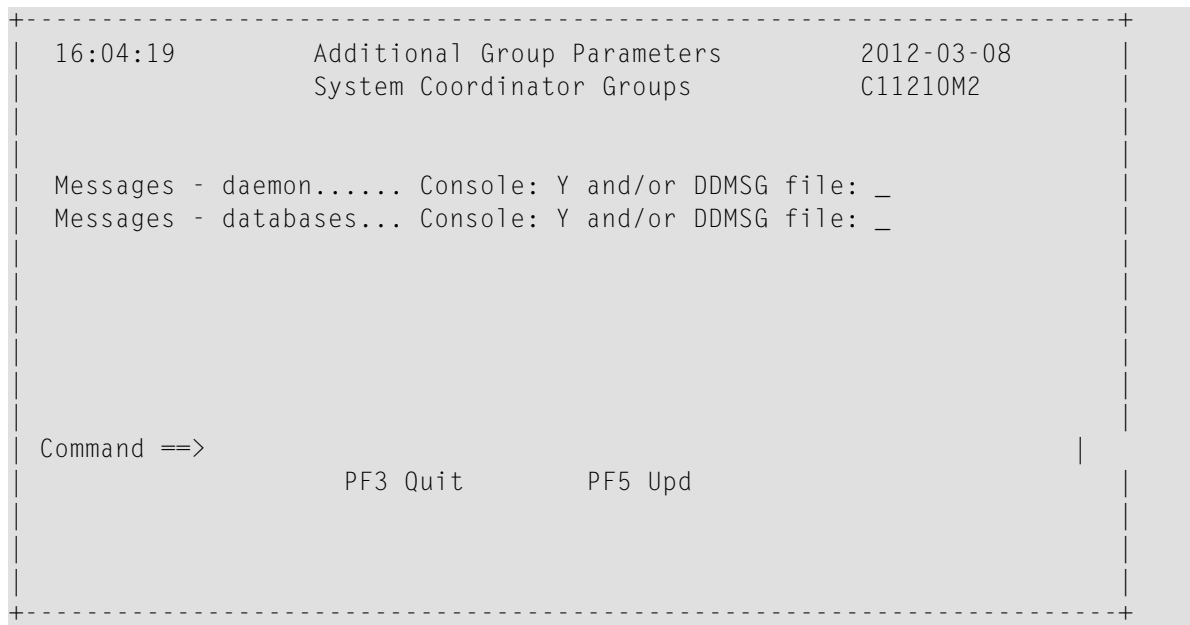
- A single system image.

- Multiple system images. This is used to support coordinator daemons running Adabas Fastpath buffers or Adabas Transaction Manager across multiple system images and also to support dynamic transaction routing across multiple system images.
 - Multiple system images using Entire Net-Work for communication between images. This is used to support coordinator daemons running Adabas Fastpath buffers or Adabas Transaction Manager across multiple system images and also to support dynamic transaction routing across multiple system images. You are recommended only to use Entire Net-Work if XCF is not available.
- 5 In the field Full crash recovery disk file, select whether or not latent sessions for client jobs managed by this daemon group are to be written to disk file. This feature allows client sessions to resume processing after a client job or daemon failure.
 - 6 If you are running under BS2000, specify the global common memory pool using the additional parameters that appear in the Add System Coordinator Group Member window.

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

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

- 7 Press PF5 to add the group definition.
- 8 Press PF9 to see more Daemon Group definition fields and the following screen will appear:



- 9 In the "Runtime messages – databases" fields select either one or both options for the destination of messages output by the Adabas System Coordinator component in the database and the other products that use its services.

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

- 10 The settings from the “More” screen can be confirmed by using PF10. The daemon group will not be created until PF5 is pressed on the first screen.
- 11 Press PF5 to confirm any changes made on this screen, or PF3 to return to the main group screen.

Maintaining a Daemon Group Definition

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

```

+-----+
| 10:55:35          Modify          2011-12-04 |
|          System Coordinator Group      C11230M1 |
|          Group Name: DEM082          SVC ID: 254__ |
|          System Type: _ Standard single-system image... |
|          (Mark one)  There is only one daemon in the group. |
|          X Standard multi-system images - XCF... |
|                   This enables multiple XCF group daemons. |
|          _ Standard multi-system images - Net-Work... |
|                   This enables multiple Net-Work group daemons. |
|          Group wide latency service: |
|          Full crash recovery disk file (Y/N): N |
|          Command ==> |
|          PF1 Help          PF3 Exit          PF5 Upd          PF9 More |
+-----+

```

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

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

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

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

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

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

```

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

```

and press PF5 to confirm.

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

```

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

```

Maintain a Daemon Group Daemon Definition

► To maintain a daemon group daemon definition

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

```

10:59:37      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2011-12-04
                - 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

```


From this screen, you can

- Use PF11 to select the product whose daemon parameters you wish to maintain.
- Purge a daemon by entering 'p' in the C column adjacent to the Daemon Job Name entry;
- change the daemon job name or node id by overtyping it and pressing PF5;
- add a new daemon entry by pressing either PF5 or PF10; or
- modify a daemon entry by entering 'm' in the C column adjacent to the entry to be modified.

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

For each daemon, specify the following:

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

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

3 Entering m against a daemon presents the product specific parameter modification screen.

Maintaining Adabas System Coordinator daemon parameters:

```

17:07:44      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2012-03-12
              - Adabas System Coordinator Daemon Parameters -      C11261M1
Run-mode: Pulsing (node 2650)
Group: WORKSHOP   Daemon: ICFDCOR5   SVC: 254   Node: 2650   System: Multi
Recovery
  Continuous Operation (Y/N).....: Y
Daemon latency/pulse services
  Shared memory area size (k).....: 1800_____   Minimum (k): 0_____
    Dataspace name (if used)..: #WRKSPI_
  Daemon memory area size (k).....: 0_____   Minimum (k): 0_____

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

```

Here you can modify latency/activity services:

- Whether to use shared memory, maximum and minimum sizes and whether to use a dataspace and unified trace settings for this daemon and (currently) the databases it knows about.
- Trace buffer size, whether to write to a trace file and whether to wraparound the trace file when it fills. Make any required changes and press PF5 to confirm them or PF3 to return to the daemon list.

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

| | |
|----------------------------------------|----|
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| ▪ Display Daemon information | 74 |

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

Current Activity Displays Menu

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

- Select service 2 from the main menu.

```

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

              Code      Service
              ----      -
              0      Change Perspective
              1      Adabas Client Activities
              2      Network Discovery
              3      Daemon Information
              .      Exit
              ----      -

Code...: _

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

| From this menu, you can | Service | Cmd |
|--------------------------------------------|---------|-----|
| change perspective | 0 | |
| Adabas client activities | 1 | 2.1 |
| network discovery | 3 | 2.2 |
| display daemon information | 4 | 2.3 |

All information requests will be directed to the current information source as displayed in the Perspective field at the top of the screen. By default this will be either your local client session when you are running in Local (non-daemon) mode or if you are running in pulsing or full daemon mode, monitoring requests will be directed to your coordinator daemon. Option 3 is only available

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

Change Perspective

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

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

- Select service 0.

```

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

```

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

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

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

When running in pulsing mode, the options are slightly different, with “Revert to Pulsing...” instead of “Revert to daemon...”:

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

Adabas Client Activities

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

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

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

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

```

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

              Code      Service
              ----      -
              1         Adabas clients within job
              2         Adabas clients across jobs
              .         Exit
              ----      -
Code...: _

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

```

| From this menu, you can | Service |
|--------------------------------------------------------|---------|
| List jobs managed by Adabas System Coordinator | 1 |
| List Adabas clients known by System Coordinator daemon | 2 |

List jobs managed by Adabas System Coordinator

```

17:16:40 ***** A D A B A S  SYSTEM COORDINATOR 8.2.2 (I001) ***** 2012-08-29
- 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: <ul style="list-style-type: none"> ■ 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) ***** 2012-08-29
                - System Coordinator Job Statistics -                U1JOS0M1
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 (currently only Snap is available) and press `Enter` to perform the task:

```

+-----+
| 17:31:58           Adabas Client Job Tasks           2012-10-25 |
| Job name: DAEFCI18 number: C46891                    |
|                                                        |
| Select one task:                                     |
| _ Snap                                               |
|                                                        |
|                                                        |
|                                                        |
|                                                        |
| PF3 - Exit      Enter - Perform task                 |
+-----+

```

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) ***** 2012-08-29
          - Adabas Client Service Jobs -                               C12140M1
Run-mode: Daemon (node 10005)                                Perspective: Daemon (node 10005)
Service : IMS82TST

```

| Job Name | Job Num. | Number 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

```

16:28:19      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2012-03-12
                - Adabas Client Login id Information -                  C12140M1
Run-mode: Pulsing (node 2650)                      Perspective: Daemon (node 2650)
Go to login id: _____      Number      Number      Total
C Login id      of sessions    of jobs     commands
_ UKSJU                5          3          33,556

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

```

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

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

| Field | Description |
|--------------------|-------------------------------------------------------|
| 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) ***** 2012-08-29
          - 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
Go to terminal: _____ Number
C   Session id   Login id   of commands Area   System   Status
_   TCM9         DA2FCI23  TEAM1     198                               running in Adabas
_   TCNO         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 |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Go to terminal | Reposition the list at the specified terminal id. Enter *MY to reposition the display at your own terminal identity (taken from the current *INIT-ID). This allows you to quickly get to display activities for your current session. |
| Session ID | The Session ID. In a TP system, a session is usually equivalent to a terminal or an asynchronous task (also known as background tasks). IDs comprised of special characters are normally generated by the system. |

| Field | Description |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 | <p>The current status of the session. This shows one of</p> <ul style="list-style-type: none"> ■ “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 <p>Press PF9 to toggle the status column around</p> <ul style="list-style-type: none"> ■ 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           2012-10-25 |
| 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.

- S: snap internal information to CORDUMP.
- Activate or deactivate client debug monitoring for a session.

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

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

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

Expand Adabas client sessions

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

```

17:39:38 ***** A D A B A S  SYSTEM COORDINATOR 8.2.2 (I001) ***** 2012-08-29
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 00000000000000000000000000000000C3C9C3E2E3C3D5F1

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

```

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

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

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

- T: perform tasks on this Adabas client session:

Current Activity Displays

```

+-----+
| 17:34:40      Adabas Client Session Tasks      2012-10-25 |
| Job name: DAEFCI18 Session ID: TCCN      DAEFCI18 |
| Adabas session id: CICSTCCN Hex:         |
| 000000000000000000000000000000000000000000C3C9C3E2E3C3C3D5 |
|                                               |
| 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 a session. Initially you are presented with System Coordinator’s controls:**

```

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

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

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

```

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.

- Trace: display the unified trace for this session:

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

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

Current Activity Displays

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

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

Mark for more information

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

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

Additional information shown when marking a trace entry:

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

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

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

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

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

You must confirm the purge request with PF5:

```
+-----+-----+
| 12:34:52                Purge Adabas Session                2011-04-14
|                                                                    C1213ZM1
| Session ID: CICSTC95
|   Hex: 00000000000000000000000000000000000000000000C3C9C3E2E3C3F9F5
|
|                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 *****      2011-12-04
              - System Coordinator Session Statistics -                U1STS0M1
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      U1TSK0M1 |
| 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 *****   2011-04-14
                                          - List Accessed Databases -   UITSK1M1

Session: CICSTC95 Fully qualified session (hexadecimal):
                000000000000000000000000000000000000000000C3C9C3E2E3C3F9F5
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 *****      2011-04-14
                - Network Discovery -                                C12200M1
Run-mode: Local plus (node 1660)                                Perspective: Daemon (node 1660)
  Coord  L Last Update                                         Status
C  Node  R (HH:MM.SS)   DBID  Nuc ID      Type          A S P F  Resp Subc
_  1660  L  11:57.13     655   6552   Ada Cluster(S)  A S P -
_                                     1660   1660   System Coord    A S - -
_                                     653    653    Adabas          A S P -
_  1650  R  11:56.31     655   6551   Ada Cluster(S)  A S P -
_                                     1650   1650   System Coord    A S - -
_                                     652    652    Adabas          A S P -
_                                     640    640    Adabas          A S P -


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

```

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

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

You can perform tasks against some node types 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          2012-10-25 |
| Current target: 2650 Type: System Coord |
|
| Select one task:
| _ Set your perspective to this daemon
| _ Trace activation control (ON/OFF): ____
| _ Trace display
| _ TM: ET data management
| _ TM: Set TM distribution transaction timeout
| _ TM: Stop inactive users (STOPI), dormant for _____ seconds
|
|
| PF3 - Exit      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 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 <i>ET Data Management</i> section in <i>Adabas Transaction Manager Online Services</i> documentation. |
| TM: Set TM distribution transaction timeout | For more information refer to the <i>How to dynamically change the TM distributed transaction timeout</i> section in <i>Adabas Transaction Manager Online Services</i> documentation. |
| TM: Stop inactive users (STOPI) | For more information refer to the <i>How to stop inactive Adabas sessions</i> section in <i>Adabas Transaction Manager Online Services</i> documentation. |

For Adabas nodes in the network:

```

17:37:48          Node Operations          2012-10-25
Current target: 17075 NucID 17075 Type: Adabas

Select one task:
_ Trace activation control (ON/OFF): ____
_ Trace display

                                     PF3 - Exit   Enter - Perform task
    
```

Mark the required task and press Enter.

| Field | Description |
|--------------------------|-----------------------------------|
| Trace activation control | Turn the Adabas trace on or off. |
| 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          2008-05-22 |
| Current perspective: Daemon (node 650)      C12PSM1 |
|
| Local: Shows session monitoring information for this |
|         job and active targets of the Adabas router |
|         in use by this job                          |
| Daemon: Shows session monitoring information for jobs |
|         managed by the System Coordinator daemon and |
|         active targets known to the daemon          |
|
| Revert to local (node 0).....: x             |
| Change to daemon node.....: _____ |
|
|                                     PF3 Exit   PF5 Set perspective |
+-----+
    
```

Select the required perspective and press PF5.

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

```

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

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

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

```

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

```

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

```

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

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

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

Display Daemon information

- ▶ To display the daemon information screen from the **Session Monitoring** menu
 - Select service 3 or enter the command 2.3 on a command line.

```

12:07:01 ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 (I001) ***** 2011-09-01
                    - Daemon Information -                               C12300M1
Run-mode: Local plus (node 1660)           Perspective: Daemon (node 1660)
                                         Start Time           <----Cluster Moves---->
Coordinator Name  Node  System  (HH:MM.SS)  Sessions      Total  Ave. Size
ICFDCOR4         1660 DA2F    12:19.47    0              0      0

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

```

The screen shows information about the daemon being used as perspective. This option is only available when using daemon perspective, because node information is kept in the daemon, not in the local client.

The following information is provided:

| Field | Description |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coordinator Name | The name of the coordinator daemon task. |
| Node | The Adabas Node ID of the coordinator daemon. |
| System | The operating system ID. |
| Start Time | The start time of the coordinator daemon. |
| Sessions | The number of client sessions currently managed by this coordinator daemon. |
| 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 | 78 |
| ▪ Runtime Information | 79 |
| ▪ Verify Adabas System Coordinator Client Installation | 80 |
| ▪ Verify Adabas System Coordinator Daemon Installation | 80 |
| ▪ Fix Display | 80 |

Special Services Menu

▶ **To display the Special Services menu**

- Select service 3 from the main menu.

The following menu will appear:

```

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

                Code      Service
                ----      -
                0      Runtime Information
                1      Verify System Coordinator Client
                2      Verify System Coordinator Daemon
                3      Fix Display
                .      Exit
                ----      -
Code..: _

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

| From this menu, you can | Service | Cmd |
|----------------------------------------------------------------------|---------|-----|
| display runtime information | 0 | n/a |
| verify Adabas System Coordinator client installation | 1 | 3.1 |
| verify Adabas System Coordinator daemon installation | 2 | 3.2 |
| access the fix display | 3 | 3.3 |

Runtime Information

▶ To display runtime information

- Select option 0 from Special Services menu.

```

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

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

Configuration File      Database      File      Router
      Primary:           640          190       254
      Alternate:

Response code.....: 0           Subcode: 0
Retry setting.....: 1000        Current: 0
SF148.....: Continue

Critical Products:
Active Products  :   ATM   AFP   AVI

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

```

The screen shows:

- Information about the current job and whether it is running in daemon mode
- The primary and alternate configuration files in use. If the configuration file has not yet been accessed successfully and SF148 is set to "Continue", PF11 is named Retry and can be used to force another attempt to access the configuration file (for example, after the database has been started).
- Which products are defined as critical for this client job
- Which products are currently active in this client job

Verify Adabas System Coordinator Client Installation

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

Verify Adabas System Coordinator Daemon Installation

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

Fix Display

▶ **To display the applied fixes**

- Select option 3 from Special Services menu.

```
08:36:03      ***** A D A B A S   SYSTEM COORDINATOR 8.2.2 *****      2010-04-23
              - Fix Display: COR 8.2.1 Patch: 0000 02/21/09 -      U1FIX0M1
              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.

