

Adabas Transaction Manager

Adabas Transaction Manager Online Services

Version 8.1.2

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Adabas Transaction Manager

This document applies to Adabas Transaction Manager Version 8.1.2 and to all subsequent releases.

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

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1 Adabas Transaction Manager Online Services

This section describes the use of the ATM Online Services.

 Using ATM Online Services	Online Services general use and navigation.
 System Settings	This function can be used to modify the settings for the configuration file where ATM's client runtime control settings are stored.
 Client Runtime Controls	This function can be used to add/maintain client runtime controls.
 Transaction Manager Information	<p>This function can be used to perform the following actions:</p> <ul style="list-style-type: none">■ Display Statistics<ul style="list-style-type: none">■ Display Current Statistics■ Display Transaction Times■ Display High-Water Marks■ Display Transactions<ul style="list-style-type: none">■ Display Detailed Information for Active Transactions■ Display Error Information■ Terminate Transactions■ Display Pending ET Data■ Display Pending Response Codes■ Display Known Databases■ Display Partner Transaction Managers■ Perform Recovery File Functions<ul style="list-style-type: none">■ Browse Recovery Records■ Browse Suspect Transaction Journal■ Browse Migrated Transaction Records■ Browse Pending Error Records

		<ul style="list-style-type: none">■ Display Zap Information
	Local Sessions	<p>This function can be used to display information from the ATM proxy:</p> <ul style="list-style-type: none">■ Display Local Sessions■ Display Zap Information

2 Using Adabas Transaction Manager Online Services

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- Help Information 6

Online Services Main Menu

ATM Online Services is available from a Natural application installed in library SYSATM and accessed from the AOS main menu. The application must be executed from a Natural session that has been configured to use ATM. Refer to section Installation for details.

▶ to invoke Adabas Transaction Manager Online Services

- select Adabas Transaction Manager from the AOS main menu,

Or:

log on to SYSATM and enter the command `MENU`.

The Main Menu screen will then appear:

```
09:52:35      ***** A D A B A S      TRANSACTION MANAGER 8.1.2 *****      2006-04-13
                                     - Main Menu -                                     T1MAINM1

Manager: 20531                                                    Terminal: TCG3

      Code   Service
      ----   -
      0      System Settings
      1      Client Runtime Controls
      2      Transaction Manager Information
      3      Local Sessions
      4      About Adabas Transaction Manager
      .      Exit
      ----   -

Code ..: _

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

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

Whenever the `MENU` command is executed, the transaction manager proxy tries to locate its local transaction manager (TM):

- If one is found, its node ID (Database ID) is displayed: for example: `Manager: 20531`.

- If the local manager is not executing, you may specify a manager's node ID later.

When the Manager ID is displayed, it may be followed by the text "(Host TC Active)" indicating that ATM's interface to the host system transaction coordinator is active in this node. On a z/OS system, this means that the ATM RRMS interface is active.

The following options are available:

Option	Description
System Settings	Maintain configuration file setting.
Client Runtime Controls	Add and maintain client runtime control definitions.
Transaction Manager Information	Display Transaction Manager information.
Local Sessions	Display local session information from ATM's client proxy.
About Adabas Transaction Manager	Display product information.

By default, the latest installed version of Online Services is executed. If you wish to use an earlier version, use PF12 to display a list of the available versions and then select the version to be used.

You can switch from the SYSATM application to SYSCOR, SYSAFP, SYSAVI or SYSAAF by pressing PF6, PF7, PF8 or PF9, respectively. You can achieve the same from most screens by entering COR, AFP, AVI or AAF, respectively, on the command line.

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 or Subfunction	Command
System Settings	Menu	0
	LFILE 152 Maintenance	0.1
Runtime Control Maintenance	Menu	1
Transaction Manager Information	Menu	2
	Statistics	2.1
	Active Transactions	2.2
	Pending Response Codes	2.3

Function	Object or Subfunction	Command
	Known Databases	2.4
	Partner Transaction Managers	2.5
	Recovery File Functions	2.6
	Zap Information	2.7
Local Sessions	Menu	3
	Local Sessions	3.1
	Zap Information	3.2

Using PF Keys

The following PF keys are available on one or more of the screens:

PF Key	Label	Description
PF1	Help	Invoke help information for the current screen.
PF2	Oper	Issue the operator command typed in the command line.
PF3	Exit	Return to the previous screen.
PF4	Refr	Refresh the information on the screen.
PF5	Stop	Stop transaction request. See section Stop Transaction .
PF7	Top	Return to the first screen of a list display.
PF8	Fwd	Scroll forward through a list display.
PF9	HstTC / TC	Invoke the Host TC Token Display or Client TC Display.
PF10	ErrI	Display error information. See section Display Error Information .
PF11	Net / TID	Toggle between net name and Terminal ID. See section Local Sessions .
PF11	Flip	Toggle between different list formats. See section Active Transactions .
PF12	Menu	Return to the main menu.

Help Information

To invoke 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 - 7	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 10

This function is used to maintain the system configuration file. This file contains the definitions of ATM's client runtime controls.

System Settings Menu

▶ **To display the System Settings menu**

- Select service System Settings (option 0) from the main menu. The following menu will appear:

```

15:22:49      ***** A D A B A S TRANSACTION MANAGER 8.1.2 *****      2006-04-19
              - System Settings -                                     T10000M1

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

Code...: _

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

From this menu, you can	Code	Command
customize the use of the configuration file (LFILE 152)	1	0.1

Configuration File (LFILE 152) Maintenance

▶ **To customize the use of LFILE 152**

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

The LFILE 152 Maintenance window will appear:

```

15:22:59          LFILE 152 Maintenance          2006-04-19
                                                U1LFILM2

Current Settings for LFILE 152:

Original LFILE = ( 152 , 199   , 20   )
Current LFILE  = ( 152 , 199__ , 20__ )
                (effective only for this Natural session)

Default pop-up settings:
Do you want to see this window again?
- for the current SYSATM session... Y
- for future SYSATM sessions..... Y

                PF3 Exit          PF5 Update/Confirm

```

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 SYSATM session.

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

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

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

- 3 Review the default settings.

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

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


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


- 4 Use PF5 to confirm all changes you have entered.

4 Client Runtime Controls

- List Client Runtime Controls 14
- Add Client Runtime Controls 15

This service is used to define/maintain client runtime controls for jobs that are to use Adabas Transaction Manager.

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

 **Note:** Client runtime controls are shared between all installed optional products, and can be defined by any Online Services application (SYSCOR, SYSAVI, SYSAFP, SYSATM).

List Client Runtime Controls

▶ **To display a list of jobs with runtime control definitions**

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

```

08:29:12      ***** A D A B A S  TRANSACTION MANAGER 8.1.2 *****      2006-04-13
              - Client Runtime Controls -                               U11300M1
                                                    Reposition to Type: _____
                                                    Name: _____

                          Client Controls
C Type          Name          AFP   AVI   ATM   COR          Comments
_ Batch         UKAQBDUS                Y     Y          Overrides,Info
_               UKAQBMM0                Y     Y
_               UKAQB85A                Y     Y          Overrides,Info
_               UKPDNAT                 Y     Y          Overrides,Info
_               UKPDSER                 Y     Y          Overrides,Info
_               UKPDV75                 Y     Y
_               UKPDV75A                Y     Y
_               UKPDV75B                Y     Y
_               UKPDWLS                  Y          Overrides,Info
_ CICS          *DEFAULT                 Y     Y          Overrides,Info
_ IMS (DTR)     *DEFAULT                 Y     Y
_ TSO           *DEFAULT                 Off   Y          Overrides,Info

Mark with Display,Expand,Modify,Purge,Rename,Copy,Overrides,Information

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

Press PF11 to view the Adabas add-on products for which runtime controls are currently defined, and then press PF11 again in order to modify the controls related to that product.

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

Add Client Runtime Controls

A set of runtime controls includes the name of the Adabas System Coordinator group in which the job will execute. You must define the group before you create any runtime controls that include the name of the group. Refer to the *Adabas System Coordinator* documentation for details of groups, and how to define them.

▶ To add a new set of runtime controls

- 1 Once you have defined your System Coordinator group, or groups, navigate to ATM's Runtime Controls screen, and press PF10.

The following menu will appear:

```

08:33:18      ***** A D A B A S   TRANSACTION MANAGER 8.1.2 *****      2006-04-13
                - Add Client Runtime Control -                               U11310M1

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

                _ API controlled

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

```

- 2 Select the required job type and press Enter. A new screen will prompt you to enter the name of the job for which you want to define runtime controls. You can use wild-card notation to represent a collection of jobs, and you can define a default set of runtime controls for the

chosen type of job. For further details, refer to the documentation for the Adabas System Coordinator.

- When you have entered the job name, press PF5. You will be prompted to enter some information for the Adabas System Coordinator. Refer to the *Adabas System Coordinator* documentation for details. When you have done this, press PF5. You will see the following screen, which allows you to specify the ATM runtime controls for the current job.



```

08:58:52      ***** A D A B A S  TRANSACTION MANAGER 8.1.2 *****      2006-04-13
              - Adabas Transaction Manager Runtime Controls -      U1133TM1
Job Type: Batch
Name: TESTJOB2          Last modified 2006-04-13 at 08:58:52 by UKPD
                        Added 2006-04-13 at 08:58:52 by UKPD

ATM ON/OFF ... ON_
System coordinator group name .....
Maximum number of open databases ..... 4____
Number of log record entries ..... 0____
Transaction control ..... LOCAL_ (Local/Global)
Emergency serial ET commands ..... FORCE (Yes/No/Force)
Allow serial remote RM co-ordination.. YES (Yes/No)
Generate OP commands ..... NO_ (Yes/No)
Transaction model ..... MESSAGE (Message/Dynamic)
External syncpoint on BT command ..... YES (Yes/No)
External syncpoint on CL command ..... YES (Yes/No)
External syncpoint on ET command ..... YES (Yes/No)
Use client-side transaction manager .. NO_ (Yes/No)
Use host system transaction manager .. NO_ (Yes/No)
Use extended hold processing ..... NO_ (Yes/No)

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

For specific information on each of these controls, see section ATM Client Runtime Controls.

-  **Note:** The initial controls for the new job are copied from those specified in the *DEFAULT entry for the selected job type. If no default entry exists for the job type, then product default values are displayed.
-  **Note:** Each job or TP system that uses Adabas Transaction Manager must be associated with an Adabas System Coordinator group, the name of which must be specified in the above screen. If you have not yet defined the group in which your job will execute, quit this operation, and use the Adabas System Coordinator Online Services application to define the group. Refer to the *Adabas System Coordinator* documentation for details.

- 4 Change any of the displayed values as required, then use PF5 to save the updated parameter settings.

5 Transaction Manager Information

- Transaction Manager Information Menu 20
- Select Different Transaction Manager 21
- Statistics 21
- Active Transactions 25
- Pending Response Codes 35
- Display Known Databases 38
- Display Partner Transaction Managers 39
- Recovery File Functions 41
- Zap Information 46

This function can be used to obtain information from an executing Adabas Transaction Manager.

Transaction Manager Information Menu

► To display the Transaction Manager Information menu

- Select option 2 from the Online Services main menu. The following menu will appear:

```

09:16:10      ***** A D A B A S   TRANSACTION MANAGER 8.1.2 *****      2006-04-13
              - Transaction Manager Information -                          T12000M1

Manager: 20531                                          Terminal: TCR9

      Code   Service
      ----   -
      0   Select a different Transaction Manager
      1   Statistics
      2   Active Transactions
      3   More Pending Response Codes
      4   Known Databases
      5   Partner Transaction Managers
      6   Recovery File Functions
      7   Zap Information
      .   Exit
      ----   -

Code ..: _

New Manager Node: _____

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

From this menu, you can	Code	Command
select a different transaction manager	0	
display statistics	1	2.1
display active transactions	2	2.2
display pending response codes	3	2.3
display known databases	4	2.4
display partner transaction managers	5	2.5
invoke recovery file functions	6	2.6
display zap information	7	2.7

The ID of the transaction manager you are currently working with is displayed on this screen and on most screens in this part of the application. For example,

Manager: 20531.

You can use PF2 to issue ATM operator commands to the transaction manager with which you are working. If you omit the command prefix TM, SYSATM supplies it for you. For example, if you enter the command NOLOG, it will be changed to TM NOLOG. The text you enter on the command line is not validated before the command is issued, except to check whether the command will terminate the transaction manager. If you enter the command TM HALT or TM END (or simply HALT or END), a window appears asking you to confirm your intention to close down the transaction manager. See section Operator Commands for a complete description of all operator commands.

Select Different Transaction Manager

If your system contains more than one operating system image and Entire Net-Work is being used to connect them, you may wish to work with a transaction manager that is executing in a different operating system image. In this case, select option 0 and enter the ID of the transaction manager in the field New Manager Node.



Note: Running more than one ID table in the same system with Entire Net-Work providing the connection between users of each ID table is equivalent to executing across different operating system images.

Statistics

This option provides access to current statistics maintained by the transaction manager, and allows the administrator to reset statistical counts to zero.

Selecting option 1, Statistics, from the Transaction Manager Information menu displays the following menu:

```

09:23:02      ***** A D A B A S   TRANSACTION MANAGER 8.1.2 *****      2006-04-13
                - Transaction Manager Statistics -                          T12100M1

Manager: 20531

                Code   Service
                ----   -
                1     Current Statistics
                2     Transaction Times
                3     High-water Marks

```

```

      .      Exit
      ----  -----
Code ..: _

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

- [Current Statistics](#)
- [Transaction Times](#)
- [High-Water Marks](#)

Current Statistics

This function displays statistical information about transactions managed by the current transaction manager. The display has the following format.

```

09:24:35      ***** A D A B A S      TRANSACTION MANAGER 8.1.2 *****      2006-04-13
              - Current Statistics -                                     T12110M1
Manager: 20531

              Transactions      Commits      Tran      Heur-
              -----      -----      -
              timeout      istic
              -----      -----      -----
ATM-
only              237              233              2
Extrn.              1315              1311
-----
Total              1552              1544              2
-----
Open              6
HWM              25
-----

Command ==>
    
```

```

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

```

The following information is provided:

Field	Description
Transactions	<p>The number of transactions, or branches, processed by this manager appears on the line that begins "Total". This figure is broken down on the preceding lines into transactions that were controlled only by ATM ("ATM-only"), and transactions that were controlled by an external transaction coordinator, such as the CICS syncpoint manager or RRMS ("Extrn.").</p> <p>"Open" indicates the number of transactions, or branches, that are currently open and that involve this transaction manager.</p> <p>"HWM" indicates the high-water mark for transactions; that is, the highest number of transactions, or branches, that have been in progress at the same time, involving this transaction manager.</p>
Commits	This column indicates how many of the transactions, or branches, that this manager has processed were committed. The total is broken down into those that were controlled solely by ATM, and those that were controlled by an external transaction coordinator.
Tran timeout	This column indicates how many of the transactions, or branches, that this manager has processed were backed out because the global transaction time limit was exceeded. The total is broken down into those that were controlled solely by ATM, and those that were controlled by an external transaction coordinator.
Heuristic	This column indicates how many of the transactions, or branches, that this ATM has processed, have experienced some degree of heuristic termination, either by ATM or by a database. The total is broken down into those that were controlled solely by ATM, and those that were controlled by an external transaction coordinator.

Transaction Times

This function displays timing statistics for transactions (or branches) controlled by the transaction manager. The display has the following format.

```

09:31:27      ***** A D A B A S   TRANSACTION MANAGER 8.1.2 *****      2006-04-13
              - Transaction Times -                                T12120M1
Manager: 20531

```

Upper bound (secs.)	Tran count	Committed	Backed out
-----	-----	-----	-----
0.50	1432	1422	10
1.00	112	108	4
2.00	4	4	0
5.00	0	0	0
10.00	2	0	2

Databases	191	3	4	04/13 08:14
DBs per tran	191	2	487	04/13 08:11
TMs per tran	191	2	331	04/13 08:13
Pending rsp		2	1	04/13 09:15

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

Most entries in the list on this screen do not relate directly to any parameter, but are included for information. The following is a brief summary of the items listed

Item	Description
Buffer areas	Adabas buffer areas.
TMDRQ	Deferred request queue (ADARUN parameter).
Request Q	Internal request queue.
Client IDs	Count of dynamic Client IDs.
Transactions	Active transactions.
TM nodes	Number of remote ATM managers.
Databases	Number of databases.
DBs per tran	Number of databases in a single transaction.
TMs per tran	Number of remote ATM managers involved in a single transaction.
Pending rsp	Response codes waiting to be returned to client sessions.

Active Transactions

Option 2 provides information about all active transactions that involve the current transaction manager.

- [Screen Format Used For Listing Transactions](#)
- [Display Detail Information for a Transaction](#)
- [Display Error Information](#)
- [Stop Transaction](#)

■ Display Pending ET Data

Screen Format Used For Listing Transactions

By default, active transactions are listed in the following format:

```

10:17:20      ***** A D A B A S   TRANSACTION MANAGER 8.1.2 *****      2006-04-13
                                   - Transactions -                               T12200M2

Manager: 20531                                           Terminal: TCU5

      <-----Client ID----->
C CL   Char           Hex           Jobname   Status   MMDD HH:MM MMDD HH:MM DBs TM
L TM?q  ? E3D41B9800000001  DAEFCI18  GT OPEN  0413 10:17 0413 10:17  2  1
L TM?q  ? E3D41B98000000012  DAEFCI18  GT OPEN  0413 10:17 0413 10:17  1

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

By pressing PF11, you can view the list in an alternative format, which correlates the transaction owner's Communication ID with the Client ID:

```

10:22:50      ***** A D A B A S   TRANSACTION MANAGER 8.1.2 *****      2006-04-13
                                   - Transactions -                               T12200M1

Manager: 20531                                           Terminal: TCU5

C L/R <-----Communication ID-----> Client ID

      L  000F7100 20640000 B902BE37 DE383581 00000001 C3C9C3E2 C5F0F0F1 TM ?q  ?
      L  000F7100 20640000 B902C0D2 914965A2 00000001 C3C9C3E2 C5F0F0F2 TM ?q  ?

Command ==>
    
```


Display Detail Information for a Transaction

Detail information for a transaction can be obtained by marking the C column in the Transaction screen and pressing Enter.

The following screen will appear:

```

07:17:35      ***** A D A B A S      TRANSACTION MANAGER 8.1.2 *****      2006-04-19
              - Transaction Details -                               T12210M1

Manager: 20531                                                    Terminal: TCP0
Clnt Type: 84 - LOCAL      Client ID: TM?q ? E3D41B9800000012      Jobname: QTT81013
Status: 8000000000 - GT OPEN      Co-ordinator: THIS ATM          PRR ISN: 00000000
CommID: 000FA10E 20860000 40404040 40404040 00F64400 E3F8F1F0 F1F34040
      XID: C1C4C101 00000050 00000002 5033000F A10E2086 00004040 40404040 404000F6
           4400E3F8 F1F0F1F3 4040E3F8 F1F0F1F3 4040D8E3 E3F8F1F0 F1F3BEAD 3BBC0734
           EC800000 00000000 00000000 00000000 00000000 00000000 00000000 C2D80000
           00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
      Start: 04/19 07:17.32      Tx Timeout: 07:19.38
           Pending Response: 000                                Sub Code: 0000
<-----CHANGED DATABASES-----> | <---PARTICIPATING ATMs-->
DBNo. TM Node      Status      Resp/subcode | TM Node      Status      Err
20532           0021 CHANGED      0      0 | 20535      0020 BRANCH
20536 20535 0021 CHANGED      0      0 |
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help           Exit Refr                               Top           Flip Menu
    
```

The following information is provided:

Field	Description
Clnt Type	The type of client session in hexadecimal format followed by an indication of whether the client is local to or remote from the transaction manager.
Client ID	The Client ID in character and then in hexadecimal format.
Jobname	The name of the job under which the transaction is, or was executing
Status	The transaction's status codes in hexadecimal followed by an indication of the most important element of the codes in character format. Possible character indicators are: <ul style="list-style-type: none"> ■ GT: no transaction is in progress for this client

Field	Description
	<ul style="list-style-type: none"> ■ GT OPEN: the transaction has begun ■ IN PREP: the transaction is in the prepare phase ■ PREPARED: the transaction has completed the prepare phase ■ IN CMIT: the transaction is in the commit phase ■ IN BKOUT: the transaction is being backed out ■ BKD OUT: the transaction was backed out ■ MIXED: the transaction completed with mixed committed and backed out status ■ BR OPEN: the transaction is a branch of a transaction owned by another ATM manager
Coordinator	<p>The transaction coordinator that has control of the global transaction. Possible values are:</p> <ul style="list-style-type: none"> ■ THIS ATM: the ATM transaction manager indicated in the Manager field (top left of screen) ■ OTHER ATM: the ATM manager <i>nnnnn</i> has control ■ CLIENT TC: the client's client-side transaction coordinator has control ■ HOST TC: the host system transaction coordinator has control
PRR ISN	The ISN of the recovery record for the transaction. The ISN is located in the ATM recovery record (PRR) file. This field will normally contain zeros until the transaction reaches prepared status.
UAB	This field contains internal information which might be useful to Software AG's support staff in problem resolution.
GTQE	This field contains internal information which might be useful to Software AG's support staff in problem resolution.
CommID	The transaction owner's 28-byte Adabas Communication ID.
XID	The Transaction ID of the transaction.
Start	The start time of the transaction. The date has the format MM/DD.
Tx Timeout	The time at which the transaction will reach the global transaction time limit.
Last Act	The time at which the ATM daemon was last asked to perform some action on behalf of the transaction's owner. The date has the format MM/DD.
Pending Response and Sub Code	The response code and subcode that the manager will return to the transaction owner when the opportunity arises. These fields normally contain zeros.

The remainder of the screen displays

- a list of databases changed by the transaction
- a list of remote ATM managers that are responsible for remote branches of the transaction

If one or both of the lists is too long to fit on the display, "More" appears at the foot of the screen. Use PF8 to scroll down the list and PF7 to return to the top of the list.

Changed Databases

Field	Description
DBNo.	Database ID of the changed database.
Manager	The Node ID of the remote ATM manager executing in the same system image as the database. If the database is executing in the same system as the current manager, this field contains blanks.
Status	The status of the database with respect to the current transaction, followed by a summary value. Possible summary values are: <ul style="list-style-type: none"> ■ CHANGED: the transaction updated this database ■ IN PREP: the database was asked to prepare the transaction ■ PREPARED: the database prepared the transaction ■ IN CMIT: the database was asked to commit the transaction ■ COMMITTD: the database committed the transaction ■ IN BKOUT: the database was asked to back out the transaction ■ BKD OUT: the database backed out the transaction ■ HEURIST: a heuristic decision was taken ■ PND FRG : "forget" pending
Rsp and Sub	Any response code and subcode that the database returned to the manager for the transaction.

Participating ATMs

Field	Description
Manager	The Node ID of the ATM manager participating in the current transaction.
Status	The status of the ATM manager with respect to the current transaction, followed by a summary value. Possible summary values are: <ul style="list-style-type: none"> ■ BRANCH: a transaction branch was created ■ IN PREP: the manager was asked to prepare the transaction branch ■ PREPARED: the manager prepared the transaction branch ■ IN CMIT: the manager was asked to commit the transaction branch ■ COMMITTD: the manager committed the transaction branch ■ IN BKOUT: the manager was asked to back out the transaction branch ■ BKD OUT: the manager backed out the transaction branch ■ HEURIST: a heuristic decision was taken

Field	Description
Err	Enter a non-blank character and press Enter to display details of any errors recorded in a manager's feedback block. See Display Error Information .

Host TC Token Display

If the transaction is under the control of the host system transaction coordinator (HOST TC), PF9 at the foot of the screen is labelled "HstTC". Pressing PF9 invokes the Host TC Token Display window showing the identifiers used by the host transaction coordinator for the transaction.

Display Error Information

ATM records the details of errors in a feedback block in the transaction's global transaction queue entry (GTQE).

If the error occurs while processing a request from an ATM client proxy or remote ATM manager, the feedback block is returned to the component that issued the request; otherwise, it remains intact in the GTQE.

To display the feedback block for a transaction, press PF10 on the Transaction Details screen.

To display the feedback block of a remote ATM manager participating in a transaction, type a non-blank character next to the ATM manager entry in the Participating ATMs list and press Enter.

The error information is displayed in a window with the following layout:

```

07:29:20      ***** A D A B A S   TRANSACTION MANAGER 8.1.2 *****      2006-04-19
                - Transaction Details -                                T12210M1
Manager: 20531 +-----Error Information-----+ erminal: TCP0
Clnt Type: 84 - | 07:29:22 Error Information 2006-04-19 | Jobname: QTT81013
Status: 8000000 | | TIERRIM1 | PRR ISN: 00000000
CommID: 000FA10 | | | F1F34040
  XID: C1C4C10 | ERROR CODES - Primary: 00204 | 40404040 404000F6
    4400E3F | Secondary: 00204 | F1F3BEAD 3E5BBCD9
    4D00000 | Queueing: 00000 | 00000000 C2D80000
    0000000 | Database No.: 20532 | 00000000 00000000
  Start: 04/19 | Command Code: ET |
Last Act: 04/19 | Response/Sub-Code: 022 / 0021 |
| | | 00
<-----CHA | AUTO-BACKOUT - Return Code: 00000 | ING ATMs-->
DBNo. TM Node | Database No.: | us Err
20532 | Command Code: |
| Response/Sub-Code: 000 / 0000 |
| | |
| PF3 Exit |
+-----+

```

Transaction Manager Information

```

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

The following information is provided.

Field	Description
ERROR CODES	<p>Describes one or more errors that occurred during processing of the transaction.</p> <p>The meaning of the error code in the fields Primary and Secondary can be found in the section Messages and Codes.</p> <p>In the example, an ET command was issued to database 20532 on behalf of the transaction, and a response code 22 (subcode 21) was returned. This response and subcode were returned to the client in the supplied Adabas control block.</p>
AUTOBACKOUT	<p>If an error caused ATM to attempt an autobackout, this field provides details of any error that occurred during the autobackout process.</p> <p>The meaning of the error code in the Return Code field can be found in the section Messages and Codes.</p>
Err	Enter a non-blank character and press Enter to display details of any errors recorded in an ATM feedback block.

Stop Transaction

This function can be used if it becomes necessary to terminate a transaction by manual intervention. For example, a client session has abended without completing a transaction and it is necessary to free its resources.

To invoke this function, press PF5 on the Transaction Details screen.

The following window will appear:

```

07:17:35      ***** A D A B A S  TRANSACTION MANAGER 8.1.2 *****      2006-04-19
                - Transaction Details -                                T12210M1
Manager: 20531                                           Terminal: TCP0
Clnt Type: 84 - +-----Stop Transaction Options-----+   ame: QTT81013
Status: 8000000 | 07:26:34 - Stop Transaction - 2006-04-19 | ISN: 00000000
CommID: 000FA10 |                               T1STOPM1 | 4040
  XID: C1C4C10 |                               | 4040 404000F6
    4400E3F | WARNING: Transaction integrity could be lost | BEAD 3BBC0734
    EC80000 |   Select one of the following functions:   | 0000 C2D80000
    0000000 |     _ Stop a transaction                   | 0000 00000000
      Start: 04/19 |     _ Stop all trans in same service     |
Last Act: 04/19 |     _ Stop all transactions              |
  
```


```

<-----CHA |      Select additional options as required: |      ATMs-->
DBNo. TM Node |      _ No rsp 9 for client |      Err
20532         |      _ Transfer to STJ    |
              |      PF1 Help    PF3 Exit    PF5 Confirm |
              |-----+-----+-----+
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help      Exit Refr Stop ET Top ErrI

```

Mark one of the following functions:

Function	Description
Stop a transaction	Terminate the transaction for which detail information is being displayed.
Stop all trans in the same service	<p>Terminate the transaction for which detail information is being displayed and all other incomplete transactions belonging to clients in the same address space.</p> <p>This option can be used, for example, to terminate all transactions belonging to clients in a given CICS region.</p> <p>When this option is invoked, a console message is issued so that the event can be audited.</p>
Stop all transactions	<p>Terminate all incomplete transactions.</p> <p>When this option is invoked, a console message is issued so that the event can be audited.</p>

 **Caution:** If you terminate a transaction branch or a part of a transaction that is controlled by an external transaction coordinator, only the local branch or local part of the transaction is affected. This could compromise the integrity of the global transaction as a whole.

By default, ATM attempts to complete (back out or commit) any incomplete transaction within the specified scope of the “Stop” request, according to its current status. By default, if a transaction is backed out, a pending response code 9 will be retained, either in the manager’s transaction queue or in the pending response code list. ATM will not, by default, attempt to complete a transaction or branch that is controlled by another ATM manager or by an external transaction coordinator if this transaction or branch has reached the prepared state, unless ATM is certain of the intended outcome.

You can optionally increase the severity of the action to be applied to the selected incomplete transactions by marking one of the following options:

Function	Description
No rsp 9 for client	If this option is selected, no pending response code will be set for the owner of a transaction which is resolved, even if it was backed out. The transaction will disappear from the manager's list.
Transfer to STJ	<p>This option causes the same processing as the "No rsp 9" option.</p> <p>Further, termination is attempted for any selected transaction or branch that is controlled by another ATM manager or an external transaction coordinator.</p> <p>Additionally, any of the selected transactions or branches that then remain (because they could not be resolved) are copied to the suspect transaction journal (STJ) and removed from the transaction list, without regard to the status of the transaction. Messages are written to the console giving details of the operation.</p> <p>Caution: When this option is used, global transaction integrity is likely to be lost. This option is provided for emergency use only.</p>

Display Pending ET Data

Pressing PF6 from the Transaction Details screen will display any pending ET data if the transaction is partially through the commit process.

The ET data is displayed in hexadecimal and character format:

```

08:08:56      ***** A D A B A S   TRANSACTION MANAGER 8.1.2 *****      2006-04-18
                - ET Data Display -                                T1ETDTM1
TM Node: 20531
  Offset      <----- Memory Contents ----->      <--Characters-->
00000000      C9E2D640 00010266 00000000 00000000      ISN ???
00000010      40404040 40404040 40404040 40404040
00000020      40404040 40404040 40404040 40404040
00000030      40404040 40404040 40404040 40404040
00000040      40404040 40404040 40404040 40404040
00000050      40404040 40404040 40404040 40404040
00000060      40404040 40404040 40404040 40404040
00000070      40404040 40404040 40404040 40404040
00000080      40404040 40404040 40404040 40404040
00000090      40404040 40404040 40404040 40404040
000000A0      40404040 40404040 40404040 40404040
000000B0      40404040 40404040 40404040 40404040
000000C0      40404040 40404040 40404040 40404040
000000D0      40404040 40404040 40404040 40404040
000000E0      40404040 40404040 40404040 40404040
000000F0      40404040 40404040 40404040 40404040
    
```

```

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

```

Pending Response Codes

- [Display Pending Response Codes](#)
- [Display Pending Response Code Details](#)
- [Delete Pending Response Code](#)

Display Pending Response Codes

Selecting option 3, Pending Response Codes, from the Transaction Manager Information menu will display a list of client sessions for which the manager has pending response codes. Such a pending response code will be set, for example, when a transaction is timed out by the manager. The list looks like this:

```

07:42:39      ***** A D A B A S   TRANSACTION MANAGER 8.1.2 *****      2006-04-19
                                     - Pending Response Codes -                               T12300M1
Manager: 20531                                                                    Terminal: TCP0

      ID              (Hex)           Jobname   Rsp-   Sub-      Time
      ID              (Hex)           Jobname   code   code   MMDD HH:MM   DBs
TM?q  ?  E3D41B9800000007  DAEFCI18   9     86   0419 07:40    1
TM?q  ?  E3D41B9800000011  QTT81013   9     86   0419 07:39    1

```

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

The following information is provided:

Function	Description
C	Enter a non-blank character and press Enter to obtain more detailed information about a particular pending response code. See Display Pending Response Code Details .
ID	The Client ID of the client session for which the pending response code is set. The ID is shown both in character and hexadecimal formats.
Jobname	The name of the job under which the client session is or was executing.
Response code	The pending response code.
Sub-code	The pending response code's subcode.
Time	The time at which the pending response code was set. The date has the format MM/DD.
DBs	The number of databases that took part in the transaction which caused the pending response code to be set.

Display Pending Response Code Details

More detailed information about a pending response code can be obtained by marking the C column in the Pending Response Codes screen.

The following screen will appear:

```
07:53:46      ***** A D A B A S   TRANSACTION MANAGER 8.1.2 *****      2006-04-19
                - Pending Response Codes -                                T12310M1
Manager: 20531                                     Terminal: TCP0

CommID:  000FA10E 20860000 40404040 40404040 00F64400 C3C9C3E2 E3C3E3F4

                <-----DATABASES----->
ID:          CICSTCT4          DBNo. TM Node   Status      Resp/subcode
Job name:    QTT81013          20532         0401 BKD OUT  0          0
Response code: 9
Sub-code:    86
                MM/DD HH:MM.SS
Time:        04/19 07:39.00
ISN:         2

Command ==>
```


Display Known Databases

Selecting option 4, Display Known Databases, from the Transaction Manager Information menu will display a list of all databases in the network that are known to this ATM. The list includes all databases that are enabled for two-phase commit processing; that is,

- all local databases that are running with `ADARUN DTP=RM`, and
- all remote databases that are running with `ADARUN LOCAL=NO` and have been identified to the transaction manager by remote ATMs.

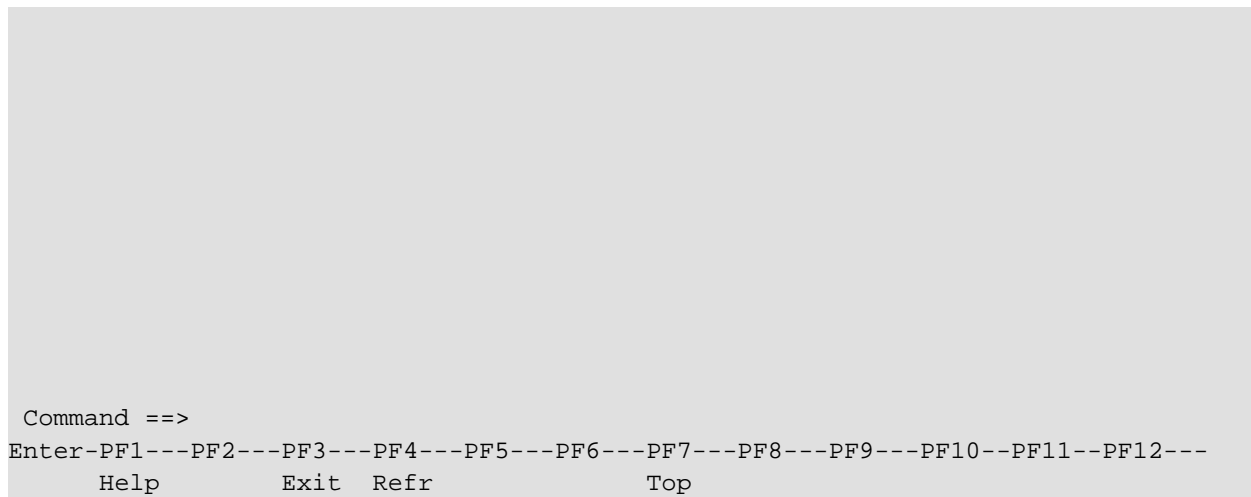
Other databases may appear in the list, depending on the way they are used. The display has the following format:

```
08:13:38      ***** A D A B A S      TRANSACTION MANAGER 8.1.2 *****      2006-04-18
                - Display Known Databases -                                T12400M1
Manager: 20531

          C      DB No.      TM Node      DTP      Usage      Date/Time
          -      -      -      -      -      -
          -      131      20531      N      -      MM/DD HH:MM.SS
          -      20532      20531      Y      2      04/18 08:04.41
          -      20536      20535      Y      1      04/18 08:05.46

Mark with L(ist) or Q(uiesce)

Command ==>
```

The following information is provided.

Field	Description
ATM Session	The ATM Session field above the table on this display indicates the number of the current session of the ATM identified by the Manager field above it. Session numbers begin with 1 when the transaction manager is first started and increase by 1 each time it is restarted.
COR Group	This field above the table of partner ATMs displays the name of the Adabas System Coordinator group with which the local transaction manager and its partner ATMs are associated.
TM Node	The ID of the remote ATM.
Jobname	The name of the transaction manager job.
Status	The latest known status code for the remote transaction manager, together with a summary interpretation. Possible values are: <ul style="list-style-type: none"> ■ ACTIVE: the transaction manager is active ■ TM DOWN: the transaction manager is not available ■ DB RSTRT: a database that is local to this ATM has restarted; restart processing is required for any work involving this database ■ PND RSTT: the local ATM must perform restart processing for work involving this remote ATM
Session	The number of the current session of the partner ATM manager. Session numbers begin with 1 when an ATM manager is first started and increase by 1 each time it is restarted.
Date/Time	The time at which the remote ATM manager was started.
Host TC	Indicates whether the remote ATM is interfacing to its local host transaction coordinator. Only RRMS under z/OS is currently supported as a local host transaction coordinator for an ATM manager.

Recovery File Functions

This option can be used to list and display recovery records, to browse the suspect transaction journal, to list and display migrated transaction records, and to list and display pending error records.

Selecting option 6, Recovery File Functions, from the Transaction Manager Information menu displays the following menu:

```

08:24:28      ***** A D A B A S      TRANSACTION MANAGER 8.1.2 *****      2006-04-18
                - Recovery File Functions -                                T12600M1

Manager: 20531

                Code   Service
                ----   -
                1     List Recovery Records
                2     Browse Suspect Transaction Journal
                3     List Migrated Transaction Records
                4     List Pending Error Records
                .     Exit
                ----   -

Code: _

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

```

- [Displaying Recovery Records and Suspect Transactions](#)
- [List Migrated Transaction Records](#)

- List Pending Error Records

Displaying Recovery Records and Suspect Transactions

Select code 1 or 2 to list recovery records or browse the suspect transaction journal (STJ). The order in which records are displayed is not significant.

For both options, the resulting list has the following layout; only the subheading differs:

```

08:26:51      ***** A D A B A S      TRANSACTION MANAGER 8.1.2 *****      2006-04-18
                - Suspect Transactions -                                T12610M1
Manager: 20531                                     Terminal: TCEQ

C L/R  <-----Communication ID----->  Client ID
_  L   000F7100 20640000 40404040 40404040 00F1E100 B8E5C585 C647B560 TM?q  ?
_  L   000F7100 20640000 40404040 40404040 00F71380 B8E71F47 3206D801 TM?q
_  L   000F7100 20640001 40404040 40404040 00F24880 E4D2D7C4 404040F2 TM?q  ?
_  L   000F7100 20640000 40404040 40404040 00F11B80 B8EFAAF9 6445FE42 TM?q

Mark with D(isplay) or P(urge)


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

The following information is provided

Item	Description
L/R	Indicates whether the transaction’s owner is (or was) local to (L) or remote from (R) the transaction manager; that is, whether or not the client is (or was) executing in the same operating system instance.
Communication ID	The transaction owner’s Communication ID in hexadecimal format.
Client ID	The transaction owner’s Client ID in character format.

For a more detailed display of an item, type D in the C column next to the item and press Enter. The resulting display has the same layout as the Transaction Details screen.

To delete a record from the STJ or the recovery record file, type P (for “purge”) in the C column next to the selected item and press Enter. You are prompted to confirm that the record should be deleted.

-  **Caution:** The purge function is provided for housekeeping of the STJ file. If you use it to delete a record from the recovery record file, you could compromise the integrity of the related global transaction, and results are unpredictable. Therefore, for audit purposes, a console message is issued when a recovery record is deleted.

List Migrated Transaction Records

To list migrated transaction records, enter code 3. If a client executes in an environment in which dynamic transaction routing can take place, and the client's session is migrated from one system image to another while the client has a global transaction in progress, a migrated transaction record (MTR) is created. An MTR is deleted when the transaction finally terminates. MTRs are stored, not in the ATM's recovery database, but in a central file store that is provided for the Adabas System Coordinator daemons in the associated COR group.

```

08:30:35      ***** A D A B A S   TRANSACTION MANAGER 8.1.2 *****      2006-04-18
                - Migrated Transactions -                                T12630M1
Manager: 20531                                           Terminal: TCEQ
C      <-----Communication ID----->      TM Node
_      000F7100 20640000 40404040 40404040 00F71380 B8E71F47 3206D801 20535

Mark with D(isplay) or P(urge)

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

```

The following information is provided.

Field	Description
C	<p>Command input field. The following options are provided:</p> <ul style="list-style-type: none"> ■ D: display the selected record <p>The resulting display is described below.</p> <ul style="list-style-type: none"> ■ P: purge the record <p>This function is provided for housekeeping by the administrator in exceptional cases. Normally, records are deleted automatically when the associated transaction completes.</p> <p>Caution: If you purge a record, it is possible that ATM will be unable to resolve the associated transaction with integrity.</p>

Transaction Manager Information

Field	Description
Communication ID	The client's 28-byte Adabas Communication ID.
TM Node	The Node ID of the transaction manager that is currently local to the client who owns the transaction.

The Display function produces a display with the following format:

```

08:33:14      ***** A D A B A S   TRANSACTION MANAGER 8.1.2 *****      2006-04-18
                - Migrated Transactions -                                T12631M1
Manager: 20531                                          Terminal: TCEQ

CommID: 000F7100 20640000 40404040 40404040 00F71380 B8E71F47 3206D801
  XID: C1C4C101 00000050 00000002 5033000F 71002064 00004040 40404040 404000F7
      1380B8E7 1F473206 D801D7C4 F0F34040 4040C4C1 C5C6C3C9 F1F8B902 C6B15FFB
      76610000 00000000 00000000 00000000 00000000 00000000 00000000 C2D80000
      00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

CICS URID: 000000000000000000      Appl ID:                TRUE:

RRS URID: 0000000000000000000000000000000000000000000000000000000000000000

Owning ATM: 20535

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

Field	Description
CommID	The 28-byte Adabas Communication ID of the client who owns the transaction.
XID	The ID of the transaction.
CICS URID	If the transaction is controlled by the CICS syncpoint manager, the CICS URID might be displayed.
Appl ID	If the transaction is controlled by the CICS syncpoint manager, the CICS appl ID might be displayed.
TRUE	If the transaction is controlled by the CICS syncpoint manager, the name of the CICS Task Related User Exit might be displayed.
RRS URID	If the transaction is controlled by RRMS, the RRS URID might be displayed.
Owning ATM	The Node ID of the transaction manager that is currently local to the client who owns the transaction.

List Pending Error Records

To list pending error records, enter code 4. If a transaction fails in such a way that the ATM manager sets a pending response code, a pending error record might also be stored, so that the pending response code will survive a component failure, or restart of the transaction manager. Pending error records are listed like this:

```

07:41:53      ***** A D A B A S      TRANSACTION MANAGER 8.1.2 *****      2006-04-19
              - Pending Error Records -                               T12640M1

Manager: 20531                                                    Terminal: TCP0

      C      ID      (Hex)      Jobname      Rsp- Sub-      Time
      _      TM?q    ?    E3D41B9800000007    DAEFCI18    9    86    0419 07:40    1
      _      TM?q    ?    E3D41B9800000011    QTT81013    9    86    0419 07:39    1

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

```

The fields in this screen are as described in the section [Display Pending Response Codes](#).

For a more detailed display of an item, type D in the C column next to the item and press `Enter`. The resulting display has the same layout as the Pending Response Code Details screen

To delete a pending error record, type P (for “purge”) in the C column next to the selected item and press `Enter`. You are prompted to confirm that the record should be deleted



Note: If you delete a pending error record using this function, the transaction manager retains details of the pending response code in memory. If the owner of the transaction tries to do further transactional work during the current execution session of the transaction manager, the pending response code will be given. If you want to remove the pending response code from the transaction manager’s memory as well as from the recovery file, use the “delete” function of the Pending Response Details display.

Zap Information

This function can be used to determine the zaps that have been applied to the ATM kernel module that is being used by the transaction manager with which you are working.

This function is invoked by selecting option 7, Zap Information, on the Transaction Manager Information menu. The following screen will appear:

```
18:19:28      ***** A D A B A S      TRANSACTION MANAGER 8.1.2 *****      2006-12-11
              - Display Applied Zaps -                                T1ZAPDM1
Version: ATM 8.1.2  Assembly Date: 12/28/06 Job Name: LOCAL      Manager: 651

---  ---  ---  ---  005  ---  007  ---  ---  ---  ---  ---  ---  ---  ---
---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---
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---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---  ---

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

The number displayed represents the last 3 digits of the actual zap number with leading zeros suppressed. In the example, zap AT811005 appears as 5 and zap AT811007 appears as 7.

6 Local Sessions

- Local Sessions Menu 48
- Local Sessions 49
- Zap Information 54

The Local Sessions option provides information from the ATM client proxy component in the Adabas link module that your ATM Online Services session is currently using. For example, if your session is executing in a CICS region, information is provided about client sessions in that CICS system which are using the same Adabas link module and the ATM client proxy.

If your ATM Online Services session is running in a job which has been defined with the System Coordinator parameter *Managed by daemon*, you will be able to monitor client sessions in all jobs that are managed by the same System Coordinator daemon. Refer to the Adabas System Coordinator documentation for further information.

Local Sessions Menu

▶ **To display the Local Sessions menu**

- Select service 3 from the Online Services main menu.

The following menu will appear:

```
07:57:12      ***** A D A B A S      TRANSACTION MANAGER 8.1.2 *****      2006-04-19
                - Local Sessions -                                T13000M1

Job Name: DAEFCI18

                Code      Service
                ----      -
                1      Local Sessions
                2      Zap 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	Code	Command
list local sessions	1	3.1
display zap information	2	3.2

Local Sessions

This function produces a list of all client sessions using the TM proxy that your session is using

```
08:02:02      ***** A D A B A S      TRANSACTION MANAGER 8.1.2 *****      2006-04-19
              - Local Sessions -                               T13100M1

Job Name: DAEFCI18
  <-----Terminal ID----->  <-----Client ID----->      T
  C Char           Hex           Char           Hex           Typ C           Status
  _ TCII          E3C3C9C900000000    TM?q      ? E3D41B9800000007 DTP A 802000 GT
  _ TCR9          E3C3D9F900000000                0000000000000000 NTR  804000 GT
  _ TCR9          E3C3D9F900000000    TM?q      ? E3D41B9800000013 DTP A 002000 TRN OPEN
  _ TC45          E3C3F4F500000000                0000000000000000 NTR  804000 GT
  _ TC45          E3C3F4F500000000    TM?q      ? E3D41B9800000001 DTP A 802000 GT
  _ TC92          E3C3F9F200000000                0000000000000000 NTR  804000 GT
  _ TC92          E3C3F9F200000000    TM?q      ? E3D41B9800000008 DTP A 802000 GT

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

The following information is provided:

Field	Description
C	Enter a non-blank character and press Enter to obtain more detailed information about a particular session.
Terminal ID	The environment-dependent identifier of the client session in character and hexadecimal format. For example, the identifier for a CICS session is usually the session's CICS terminal ID. Use PF11 to toggle between Terminal ID and Net Name.

Field	Description
Net Name	A second environment-dependent identifier for the client session. For example, the identifier for a CICS session is usually the session's VTAM LUName. Use PF11 to toggle between Terminal ID and Net Name.
Client ID	The Client ID for each client session, in character and hexadecimal format.
Typ	The client session type. Possible values are: <ul style="list-style-type: none"> ■ DTP: a normal DTP-mode session ■ SER: a session that is operating in serial ET/BT mode ■ NTR: a session for which the TM proxy does not invoke transparent transaction processing
TC	The transaction coordinator that has control of the session's global transactions. Possible values are: <ul style="list-style-type: none"> ■ A: the local ATM has control ■ C: the local client-side transaction coordinator has control ■ H: the host system transaction coordinator has control
Status	The session's current status values together with a summary interpretation, as known by the TM proxy. Possible values are: <ul style="list-style-type: none"> ■ CLT SYNC: syncpoint requested by client-side transaction coordinator ■ FORCE BT: forced backout in progress ■ GT: global transaction status ■ IN BKOUT: an attempt to back out has not yet completed ■ IN CMIT: an attempt to commit has not yet completed ■ IN ET/BT: prepare/commit/backout in progress ■ SESS ERR: the client is not in session with ATM ■ TM DOWN: TM unavailable ■ TRN OPEN: transaction in progress ■ UNKNOWN: transaction status not known ■ XH ET: in extended hold (ET) status ■ XH BT: in extended hold (BT) status

Display Session Details

Field	Description
	<ul style="list-style-type: none"> ■ NTR: a session for which the TM proxy does not invoke transparent transaction processing
Terminal ID	Environment-specific identifier of the client session in character and hexadecimal format.
Net-Name	Environment-specific identifier of the client session.
Client ID	The Client ID in character and hexadecimal format.
Status	<p>The session's status code in hexadecimal followed by a summary interpretation in character format.</p> <p>Possible values are:</p> <ul style="list-style-type: none"> ■ CLT SYNC: syncpoint requested by client-side transaction coordinator ■ FORCE BT: forced backout in progress ■ GT: global transaction status ■ IN BKOUT: an attempt to back out has not yet completed ■ IN CMIT: an attempt to commit has not yet completed ■ IN ET/BT: prepare/commit/backout in progress ■ SESS ERR: the client is not in session with ATM ■ TM DOWN: TM unavailable ■ TRN OPEN: transaction in progress ■ UNKNOWN: transaction status not known ■ XH ET: in extended hold (ET) status ■ XH BT: in extended hold (BT) status
CommID	The session's 28-byte Adabas Communication ID.
XID	The Transaction ID of the current transaction. This field contains binary zeros if the session has no transaction is progress.
Adabas Calls	The number of Adabas calls issued by the session.
Transactions	The number of transactions executed by the session.
UAB	This field contains internal information which might be useful to Software AG's support staff in problem resolution.
GTQE	This field contains internal information which might be useful to Software AG's support staff in problem resolution.
Last Function Call	The type of the most recent internal call sent by the TM proxy to the transaction manager for the session. Included for diagnostic purposes.
Transaction Model	The transaction model that is currently in use for the session.

The remainder of the screen displays:

- a list of databases with which the client is in session; and

- a list of up to five pairs of pending Adabas response codes and subcodes in reverse chronological order.

If the list of databases is too long to fit on the display, “More” appears at the foot of the screen. Use PF7 to return to the top of the list and PF8 to scroll down the list.

List of Databases

Field	Description
DBNo.	Database ID.
L/R	Indicates whether the database is local to or remote from the client; that is, whether or not the database is executing in the same operating system instance.
DTP	Indicates whether distributed transaction processing is enabled for the database; that is, whether it is running with the runtime parameter ADARUN DTP=RM.
ETID	If the database session has an ETID, it is shown here; otherwise the field is blank.
Status	<p>A summary of the current status of the database with respect to the current client session. Possible summary values are:</p> <ul style="list-style-type: none"> ■ ET: the client has no pending updates on this database ■ CHANGED: the client has uncommitted updates on this database ■ XH: the database is in extended hold status ■ BT RQD: backout must be performed on this database

Client TC Display

If the session has an open transaction under the control of the local environment’s client-side transaction coordinator (CLIENT SIDE TC), PF9 at the foot of the screen is labeled “TC”. Pressing PF9 invokes the Client TC Display window showing the identifier used by the client-side transaction coordinator for the transaction.

Error Information

Press PF10 to display the contents of the feedback block returned by the local ATM when the TM proxy last sent a command to it on behalf of the session.

The format of the resulting pop-up window is the same as described in section [Display Error Information](#).

Zap Information

This function can be used to determine the zaps that have been applied to the ATM kernel module that is executing in the Adabas link module that your session is currently using.

This function is invoked by selecting option 2, Display Zap Information, on the Local Sessions menu.

The resulting screen output has the same format as that described for displaying zaps for an ATM manager.

Use PF9 to produce a similar display that shows which zaps have been applied to the Adabas System Coordinator kernel (CORKRN) that is being used by your current session.