

Adabas Transaction Manager

Adabas Transaction Manager Version 7.5.1 Release Notes

Version 7.5.1

September 2009

Adabas Transaction Manager

This document applies to Adabas Transaction Manager Version 7.5.1 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 Version 7.5.1 Release Notes

This document describes the changes and enhancements provided with Adabas Transaction Manager version 7.5.1.

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2 Prerequisites and Installation

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This section provides information regarding version 7.5.1 prerequisites and installation changes.

Prerequisites

The prerequisites for Adabas Transaction Manager version 7.5.1 are described fully in the ATM Installation documentation, sections Prerequisites and Before You Install.

Installation-Related Information

This section contains installation-related information for Version 7.5.1.

For complete installation information and procedures, refer to section Adabas Transaction Manager Installation.

Installation Package

The installation tape contains the following datasets in the sequence shown on the Report of Tape Creation that accompanies the installation tape:

Dataset	Description
ATM vrs .JOBS	Installation jobs, utility jobs
ATM vrs .LOAD	Executable modules
ATM vrs .SYS5	ADALOD input for the ATM PRR file
ATM vrs .SYS6	ADALOD input for the ATM STJ file
ATM vrs .SYS7	ADALOD input for the user proxy log (UPL) file
ATM vrs .SYS8	ADALOD input for the ET data file
ATM vrs .INPL	Online Services application
ATM vrs .ERRN	Online Services messages
ATM vrs .SYSC	ADALOD input for the Adabas System Coordinator file (only required for installation under z/OS)
ADA743.LX06	Adabas load library update (see notes below.)

— where vrs is the version, revision, and system maintenance level of the product. Use the comments in the jobs when modifying them to conform to site requirements.



Note: In addition to the Adabas Transaction Manager installation tape, you will need load library update L005, or higher, for the Adabas System Coordinator.



Note: Load library update LX06 for Adabas version 7.4.3 is needed for certain components. Please refer to the ATM installation documentation for details of how the LX06 library should be used.

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New Features

- Distributed Transaction Support for Adabas Parallel Services and Adabas Cluster Services 8
- Enhanced Online Statistical Reporting 8
- Enhanced Statistical Reporting to Console and DDPRINT 9
- Identification of Open Migrated Transactions using Online Services 10
- No External Recovery Database 10

This section describes the new features provided by Version 7.5.1.

Distributed Transaction Support for Adabas Parallel Services and Adabas Cluster Services

ATM version 7.5 fully supports use of the parameter `DTP=RM` with Adabas Parallel Services and Adabas Cluster Services.

Enhanced Online Statistical Reporting

Adabas Transaction Manager version 7.5 introduces new statistical displays in the Online Services application. The new displays show an ATM daemon's counts of transactions with various outcomes, and transaction timings. See *ATM Online Services, Display Daemon Statistics*.

Here are two examples:

```

10:32:47  ***** A D A B A S TRANSACTION MANAGER 7.5.1 *****           2004-03-05
          - Current Statistics -                                           T12710M1

TM Node: 7064

          Transactions  Commits      Tran      Nonact      Heur-      Client
          -----      -
          only          235         227         2
Extrn.          1311         1307
          -----      -
Total          1546         1534         2           0           0
          -----      -
Open           0
HWM            19
          -----      -
          -----      -
          -----      -
          -----      -
          -----      -
          -----      -
          -----      -

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

```
10:33:22   ***** A D A B A S TRANSACTION MANAGER 7.5.1 *****   2004-03-05
              - Transaction Times -                               T12720M1
```

```
TM Node: 7064
```

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
300	0	0	0
600	1	0	1
9999999	0	0	0
-----	-----	-----	-----
Total:	1551	1534	17
-----	-----	-----	-----

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

Enhanced Statistical Reporting to Console and DDPRINT

The extended statistical information is written to the DDPRINT dataset on termination of the daemon. It can also be displayed on the console and written to DDPRINT at any time during daemon execution by means of the TM DSTAT operator command.

Here is an example:

```
ADAI29 Oper cmd: TM DSTAT
ATM110 04 Session statistics:
ATM115 04 No. of transactions processed:      000000000531
ATM115 04 No. of transactions committed:     000000000527
ATM115 04 No. of ATM-only transactions processed: 000000000515
ATM115 04 No. of ATM-only transactions committed: 000000000513
ATM115 04 No. of external transactions processed: 000000000016
ATM115 04 No. of external transactions committed: 000000000014
ATM115 04 No. of transactions timed out (TMGTT): 000000000002
```

```
ATM115 04 No. of transactions timed out (TMGTNA): 000000000000
ATM115 04 No. of heuristically terminated trans.: 000000000000
ATM115 04 No. of open client sessions:          000000000001
ATM115 04 No. of open transactions:           000000000000
ATM116 04 Tran times: Millisecs  Tran count  Committed  Backed out
ATM117 04                0000000500 0000000497 0000000497 0000000000
ATM117 04                0000001000 0000000032 0000000030 0000000002
ATM117 04                0000002000 0000000000 0000000000 0000000000
ATM117 04                0000005000 0000000000 0000000000 0000000000
ATM117 04                0000010000 0000000000 0000000000 0000000000
ATM117 04                0000300000 0000000000 0000000000 0000000000
ATM117 04                0000600000 0000000002 0000000000 0000000002
ATM117 04                9999999999 0000000000 0000000000 0000000000
ATM113 04 High-water marks : Max      HWM      Hits      First hit
ATM114 04 TMABA           :          00000005 0000000003 04/05 13:11
ATM114 04 TMDRQ           : 00000010 00000000
ATM114 04 TMRQ2           :          00000001 0000000001 04/05 13:02
ATM114 04 TMDYNTCIDS      : 0010000 00000000
ATM114 04 TMGUQ           :          00000033 0000000002 04/05 13:10
ATM114 04 TMGTQ           :          00000003 0000000003 04/05 13:11
ATM114 04 TM nodes       : 0000191 00000001 0000000001 04/05 13:02
ATM114 04 TMTARGETSG      : 0000191 00000003 0000000007 04/05 13:03
ATM114 04 TMTARGETST      : 0000191 00000002 0000000424 04/05 13:03
ATM114 04 TMs/tran       : 0000191 00000001 0000000001 04/05 13:03
```

Identification of Open Migrated Transactions using Online Services

A new Online Services feature can be used to identify in-flight transactions that have been migrated within a cluster through dynamic transaction routing (DTR).

For more information, see Online Services, Transaction Manager Database Functions.

No External Recovery Database

The database files in which an ATM daemon stores vital recovery information must now reside in the ATM daemon's own database. There is no longer any need for a separate database to contain these files. This makes installation and administration easier.

4 Performance

Performance of Adabas Transaction Manager version 7.5 is considerably better than that of previous versions. Performance tests have shown that version 7.5 uses significantly less CPU than versions 1.2 and 7.4 in most cases. Depending on the type of transaction and the configuration of RM databases and ATM daemons, the CPU consumption of the version 7.5 daemon can be less than half that of the version 1.2 daemon and recovery database, and less than 75% of the figure for version 7.4.

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This section describes the operational changes and enhancements provided by Version 7.5.1.

Required System Coordinator Daemon

With ATM 7.5, an ATM daemon requires the presence of an Adabas System Coordinator (SYSCO) daemon executing locally under the same Adabas router. The System Coordinator enables multi-systems compatibility, including dynamic transaction routing and Sysplex support, with truly dynamic configuration capabilities. This allows Adabas Transaction Manager to be used very flexibly, across system images, whether Sysplex facilities are used or not. See also section [TM-NODES Parameter Now Redundant](#).

For more information, see ATM Daemons and Adabas System Coordinator Groups.

Embedded Recovery Database

The Adabas Transaction Manager daemon uses database files to store vital recovery information about incomplete transactions, and for other purposes. These files must now reside in the ATM daemon's own database. There is no longer any need for a separate database to contain these files.

For more information see section Restart and Recovery.

DTP=ET Parameter Replaced by DTP=RM

The DTP=ET parameter setting provided with ATM version 7.4.2 is made redundant because of the full support for Adabas Cluster Services and Adabas Parallel Services. Where the parameter DTP=ET has been used, it should be changed to DTP=RM. For more information, see [Distributed Transaction Support](#).

Notification that RM Services are Active

Whenever a Resource Manager signs on to an ATM daemon for distributed transaction processing, an ATM124 message, "Signed on for DTP with ATM node nnnnn", is issued, regardless of the order in which the different components were activated. This message is a positive confirmation that the database is enabled as a resource manager.

TMNODES Parameter Now Redundant

With Adabas Transaction Manager version 7.5, control over transactions that cross system boundaries is determined by the scope of the System Coordinator group with which the application and ATM daemon are associated. A network of peer ATM daemons is determined by the scope of the associated System Coordinator group; therefore, the `TMNODES` parameter setting provided with earlier versions of ATM is now redundant.

For more information, see [ATM Daemons and Adabas System Coordinator Groups](#).

Default LGRECNO Value Changed

The default value of the `LGRECNO` job parameter is now 0. This minimizes default memory requirements.

Required Datasets

For a complete overview of the datasets required by ATM, see the section [Required Datasets](#).

6 Online Documentation

The Adabas Transaction Manager version 7.5 documentation is provided in HTML format for electronic distribution. The documentation has been structured for optimal online access including extensive use of hyperlinks to related topics. In addition, full text search and indexing features are available. All documents are also available as PDF files for selective printing at a user site.

The documentation for ATM version 7.5 contains new sections describing how to configure your systems to use Adabas Transaction Manager in environments that support dynamic transaction routing.

The Online Documentation Main Menu provides an overview of the ATM documentation.

7 Upgrading from Earlier ATM Versions

For information about upgrading from an earlier ATM version, see the ATM Installation documentation, section Upgrading from Earlier ATM Versions .

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Support End Dates for Previous ATM Versions

Software AG supports previous Adabas Transaction Manager releases and SMs as follows:

Release	Release Date	Support End Date
Adabas Transaction Manager Version 1.2.2	August 2001	May 2005
Adabas Transaction Manager Version 7.4.2	July 2003	September 2006
Adabas Transaction Manager Version 7.5.1	April 2005	---

