

ADABAS SQL Server 1.4.3

Release Notes for MVS and VSE

Manual Order Number: ESQ143-008IBM

This document applies to Adabas SQL Version 1.4.3 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.

Readers' comments are welcomed. Comments may be addressed to the Documentation Department at the address on the back cover or to the following e-mail address:

Documentation@softwareag.com

© July 1999, Software AG

All rights reserved

Printed in the Federal Republic of Germany

Software AG and/or all Software AG products are either trademarks or registered trademarks of Software AG. Other products and company names mentioned herein may be the trademarks of their respective owners.

TABLE OF CONTENTS

ADABAS SQL SERVER VERSION 1.4.3 RELEASE NOTES

FOR MVS AND VSE	1
Prerequisites (MVS)	1
Prerequisites (VSE)	1
Support for Adabas SQL Server Versions	2
Hint when using Dynamic SQL and Adabas SQL Server Data Type DECIMAL ..	2
Corrections of Known Faults	3
Changes made for Adabas SQL Server Version 1.4.3 Patchlevel 1	3
Status of User Documentation	7
Manuals Issued with Version 1.4.3	7
Manuals Issued with Version 1.4.2 and Delivered with Version 1.4.3	8
Release Notes Issued with Version 1.4.2 (not Delivered with Version 1.4.3)	8

ADABAS SQL SERVER VERSION 1.4.3 RELEASE NOTES FOR MVS AND VSE

Prerequisites (MVS)

This release of Adabas SQL Server is intended for the IBM MVS/ESA operating system.

The following Software AG Products are required to run Adabas SQL Server:

- Adabas Version 6.2 or higher
- Entire Net-Work Version 5.4
- Entire Service Manager Version 1.1.3
- Natural Version 2.2.8++

Please check the *Adabas SQL Server Installation & Operation Manual*, section: **Installation Steps**, Step A1, for the required ZAP Numbers.

Prerequisites (VSE)

This release of Adabas SQL Server is intended for the IBM VSE operating system.

The following Software AG Products are required to run Adabas SQL Server:

- Adabas Version 6.2 or higher
- Entire Net-Work Version 5.4
- Entire Service Manager Version 1.1.3
- Natural Version 2.2.8++

Please check the *Adabas SQL Server Installation & Operation Manual*, section: **Installation Steps**, Step A1, for the required ZAP Numbers.

Support for Adabas SQL Server Versions

Product	Released	End of Support
Adabas SQL Server Version 1.4.2	November 1997	December 1999
Adabas SQL Server Version 1.4.3	July 1999	Current version

Hint when using Dynamic SQL and Adabas SQL Server Data Type DECIMAL

In the *Adabas SQL Server Programmer's Guide*, Page 96, it states that the SQLLEN encodes the precision and scale for columns of type DECIMAL by using the first byte to represent the precision and the second byte to represent the scale. This is meant to be taken literally; by converting the SQLLEN field into a 2 byte array, it is then possible to get the precision and scale without worrying about the Endian of your machine. The following macro for the programming language C may be used on all platforms without modification:

```
#define SQLDA_GET_DECIMAL_PREC_SCALE(sqllen,sql_precision,sql_scale) \  
    sql_precision = (int)(((char *)&sqlen)[0]); \  
    sql_scale     = (int)(((char *)&sqlen)[1]);
```

Corrections of Known Faults

The list below provides all problems and error corrections currently known, and even though it was set up with greatest diligence it cannot be complete. The list, therefore, does not give any guarantee regarding functionality either of the error corrections or the software involved or regarding the completeness of the problems and corrections stated.

Changes made for Adabas SQL Server Version 1.4.3 Patchlevel 1

Problems 151119 and 161970:

When a query contains a join condition based on a superdescriptor, the descriptor will never be used before the join condition is applied. The effect of this is that a constant restriction based on this superdescriptor will be performed many times instead of the required once.

Problem 159836:

The utility ESQGTD treated leading 0s (zeros) to mean that the Adabas database number and/or file number were in octal – they are now all treated as being in decimal.

Problem 165824:

ESQ does not support CICS clients across multiple CICS Tasks. In Advanced Interactive (SYSESQ), the NATURAL parameter PSEUDO=OFF is required.

Problem 167963:

Starting Advanced Interactive (SYSESQ) under NATURAL V2.3 results in a NAT0933, GDA Timestamp conflict. Apply the NATURAL correction NA31071, also use the NATURAL parameters DELETE=OFF and PSEUDO=OFF.

Problem 168528:

Joins across views (two or more) that had extra brackets in the view definition could cause the SQL server to hang.

Problem 170657:

The Entire Service Manager (ESG) server gets an S0C4 at startup when the VOPRM module cannot be loaded. Error message text “VOPRM not found. Terminating abnormally U1201” is now issued in ALL environments where VOPRM is required but not available.

Adabas SQL Server Version 1.4.3

Problem 171301:

SQL statements of 16Kb or larger result in an ESQ8652 error message. ESQBIF issues requests with buffer lengths of 8Kb, 16Kb, 32Kb and 64Kb. The ESG/ESQ Server can only handle requests up to 32,000 bytes. Requests larger than 16Kb are processed using the 32Kb buffer which exceeds the length limits set by the Entire Service Manager Server. Process DDL statements larger than 16Kb in LINKED-IN mode.

Problem 171516:

Transaction logic in DB2 Mode under CICS was not being handled correctly. The User identification logic for the (implicit) CONNECT has now been changed to correct this error.

Problem 171660:

Generating a superdescriptor with a parent field of either NATURAL DATE or NATURAL TIME resulted in an Adabas error. This was caused by the to-value of the superdescriptor not being set.

Problem 171780:

Execution of the ESQI transaction with option -D hangs the terminal under CICS. This has been corrected by echoing the messages issued with WTO also to the User Console.

Problem 171823:

Adabas SQL Server applications executing in DB2 mode under CICS receive an ESQ8631 error message, due to the user identification associated with the generated DISCONNECT statement not being known.

Problem 172188:

Adabas SQL Server applications executing in DB2 mode under CICS terminate abnormally with the CICS Abend Code ASP7. Should a non-zero SQL code be returned during COMMIT or ROLLBACK processing, the CICS Syncpoint Manager attempts to rollback the transaction and terminates the task with ASP7. To assist in diagnosing the problem, the following error message is written to the Operator Console:

```
VOT001E, SQLCODE=-nnnn during <sql_cmd>
```

```
VOT001E, SYSID/TRANSID: ssss/tttt UserID: uuuuuuuu
```


Problem 172478:

The external sort DFSORT under VSE is now supported. This requires the following changes:

- Modify the 'SIZE' operand of the 'EXEC' JCL statement in ALL ESQ jobs that call an EXTERNAL sort (i.e. Adabas Service Manager Server, Jobs executing in LINKED-IN mode):
from: // EXEC program,SIZE=AUTO
to: // EXEC program,SIZE=(AUTO,128K)
- Set the SORTTYP parameter in the VOPRM Macro call to "D":
VOPRM SORTTYP=D, SORT-Type: DFSORT +
..... additional parameter settings

Problem 174146:

The client side error handler under the CICS environment failed to clean up all resources of Adabas SQL Server and CSCI when certain fatal errors occurred.

Problem 174426:

On the mainframe platforms, Adabas SQL Server returns the wrong number of records when constants that are used in the WHERE-clause must be converted to PACKED.

Problem 176253:

A primary key constraint with one of its columns of type NATURAL DATE received an ESQ8811 error.

Problem 176790:

ESQ8118 and ESQ8010 errors were generated by the runtime engine when a FETCH into a structure with an indicator array was used. This was caused by ESQLNK generating invalid communications buffers.

Problems 179939 and 182304:

Not all resources were released during the handling of timeout events. Subsequent execution of the client application, could, result in the SQL response code ESQ8123 – “meta-program exclusive lock error”.

Problems 179942 and 180273:

User-exit 1 in ESQLNK handled differently for an explicit CONNECT statement than for an implicit CONNECT. The implicit CONNECT should be and is now be handled in exactly the same way.

Adabas SQL Server Version 1.4.3

Problem 179943:

The COBOL precompiler failed to generate the host variable name that was in error when generating a ESQ2260 error. This error occurs when a host variable is not found or can not be recognized.

Problem 180225:

ESQGTD overran output buffer when generating a cluster where some of the Predict names were 31 character or longer. This was specifically a problem of generating the Foreign Key clause within the cluster.

Problem 181373:

On the mainframe platforms, the last character of alphanumeric columns could be lost when using the ORDER BY-clause and the last character is a linefeed (x'15').

Problem 182377:

A client / server timeout situation on the mainframe was treated like a CSCI error, which resulted in the abnormal termination of the client's server thread during the next access.

Problem 182415:

Cancellation of a user thread (ESG) within ADABAS SQL Server during the external sort processing led to a program exception.

Problem 182622:

The conversion of binary and integer field values was not allowed. The comparison of binary and integer values, for example in search criteria, resulted in the SQL response code ESQ4308.

Status of User Documentation

- Some manuals have been newly written or updated to reflect the Version 1.4.3 functionality
- Some manuals for Version 1.4.2 are still valid and are delivered with Version 1.4.3
- Release Notes for Version 1.4.2 may still be of interest — they are not delivered with Version 1.4.3

Manuals Issued with Version 1.4.3

Adabas SQL Server Reference Manual (Order No. ESQ143-030ALL):

Two changes to the CONNECT Statement:

- The length of the Password specifier is now up to 32 characters
- Limitations have changed

Adabas SQL Server Messages and Codes Manual (Order No. ESQ143-060ALL):

- Eight new Abend Codes for Mainframe Platforms
- Nine new Adabas SQL Server Error Messages

Adabas SQL Server Programmer's Guide (Order No. ESQ143-020ALL):

- Minor changes to the section **Compiler Options** of Chapter 1
- New Chapter 13

Adabas SQL Server Installation and Operations Manual (MVS) (Order No. ESQ143-010IBM):

- Minor updates throughout

Adabas SQL Server Installation and Operations Manual (VSE) (Order No. ESQ143-010VSE):

- Minor updates throughout

Adabas SQL Server 1.4.3 Release Notes for MVS and VSE (Order No. ESQ143-008IBM):

- Completely new

Adabas SQL Server 1.4.3 Release Notes for UNIX and OpenVMS (Order No. ESQ143-008UNX):

- Completely new

Manuals Issued with Version 1.4.2 and Delivered with Version 1.4.3

**Adabas SQL Server Installation and Operations Manual for OpenVMS
(Order No. ESQ142-010VMS)**

**Adabas SQL Server Installation and Operations Manual for UNIX
(Order No. ESQ142-010UNIX)**

**Adabas SQL Server Installation and Operations Manual for Windows NT
(Order No. ESQ142-010WNT)**

Release Notes Issued with Version 1.4.2 (not Delivered with Version 1.4.3)

Adabas SQL Server 1.4.2 Release Notes for MVS (Order No. ESQ142-008IBM)

Adabas SQL Server 1.4.2 Release Notes for VSE (Order No. ESQ142-008VSE)

Adabas SQL Server Release Notes Version 1.4.2 for OpenVMS (Order No. ESQ142-008VMS)

Adabas SQL Server 1.4.2 Release Notes for UNIX (Order No. ESQ142-008UNIX)

Notes

Adabas SQL Server Version 1.4.3 Release Notes for MVS and VSE

Adabas SQL Server Version 1.4.3 Release Notes for MVS and VSE