

# Transbase<sup>®</sup>ODBC Driver Version 1.0

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# Chapter 1

## Installation of MS-Windows ODBC Driver for Transbase

This chapter describes how the user or system administrator brings the ODBC Driver for Transbase into operation.

In the first section, the system requirements are described, in the following sections the installation and administration procedure is given.

### 1.1 System Requirements

#### 1.1.1 Hardware-Requirements

The following hardware requirements are necessary to run the ODBC Driver for Transbase.

- An IBM-PC-compatible AT Personal Computer (PC AT) with at least a Intel 80386 Microprocessor.
- A minimum of 4 MB usable RAM for the TCP/IP Version. For the linked in Version of Transbase a minimum of 8 MB usable RAM is recommended.

#### 1.1.2 Software-Requirements

The following software requirements are necessary to run the ODBC Driver for Transbase.

- MS-DOS Version 3.3 or later.
- MS-Windows Version 3.1 or later.

- Transbase Version 4.1.6 or later.
- If the TCP/IP Version of Transbase is used then additionally an appropriate Network Configuration is needed.
- At least one ODBC Application such as Microsoft ACCESS Version 1.1 or later.

## 1.2 Installation Procedure

The Transbase ODBC Driver normally is delivered on diskettes with special installation program SETUP.EXE. This setup program must be invoked from Windows, e.g. from the program manager using the File eXecute command from the File menu.

## 1.3 Administration Procedure

During this setup the ODBC-Administration tool will be invoked. This tool manages the entries in the file ODBC.INI in the windows directory. Before an ODBC Database may be accessed through an ODBC-Applikation this ODBC-Database must have an entry in the file ODBC.INI. This entry may be modified with the ODBC Administration tool which automatically will be installed during the Transbase-ODBC-Setup.

To make ODBC Applications work properly the so called TRANSBASE directory should be included into the systems PATH variable. This is not done automatically by the installation routine.

Furthermore the configuration file "tbwin.ini" must be made visible to any ODBC application which uses the TRANSBASE ODBC driver. This can be done by creating a copy of "tbwin.ini" in the applications home directory or by moving "tbwin.ini" to your windows directory. The latter alternative is recommended. Normally "tbwin.ini" can be found in the TRANSBASE directory or in the windows directory. You will find more information on this issue in the "Transbase System Guide".

## Chapter 2

# Technical Notes to Transbase ODBC

### 2.1 API-Conformance-Levels

The current version of Transbase ODBC supports all functions of the following ODBC-API-Conformance-Levels:

- ODBC-API-Level Core
  - SQLAllocEnv
  - SQLAllocConnect
  - SQLConnect
  - SQLAllocStmt
  - SQLPrepare
  - SQLSetParam
  - SQLGetCursorName
  - SQLSetCursorName
  - SQLExecute
  - SQLExecDirect
  - SQLRowCount
  - SQLNumResultCols
  - SQLDescribeCol
  - SQLColAttributes
  - SQLBindCol
  - SQLFetch

- SQLError
- SQLFreeStmt
- SQLCancel
- SQLTransact
- SQLDisconnect
- SQLFreeConnect
- SQLFreeEnv
- ODBC-API-Level 1
  - SQLDriverConnect
  - SQLGetInfo
  - SQLGetFunctions
  - SQLGetTypeInfo
  - SQLSetConnectOption
  - SQLGetConnectOption
  - SQLSetStmtOption
  - SQLGetStmtOption
  - SQLParamData
  - SQLPutData
  - SQLGetData
  - SQLColumns
  - SQLSpecialColumns
  - SQLStatistics
  - SQLTables

## 2.2 SQL-Conformance-Levels

The current version of Transbase ODBC supports the following ODBC-SQL-Conformance Levels and Datatypes.

Minimum-ODBC-SQL-Conformance-Level
CHAR

Core-ODBC-SQL-Conformance-Level
VARCHAR
DECIMAL
NUMERIC
SMALLINT
INTEGER
REAL
FLOAT
DOUBLE

Additionally the following datatypes from Extended ODBC-SQL-Conformance-Level will be supported:

Extended ODBC-SQL-Conformance-Level	
TINYINT	
DATE	(datetime[YY:DD])
TIME	(datetime[HH:MS])
TIMESTAMP	(datetime[YY:MS])

**Note:** The range of the Transbase types for the ODBC types DATE, TIME and TIMESTAMP must match exactly.

## 2.3 Configuring the Transbase ODBC Driver

To configure the Transbase ODBC-Driver for some ODBC Applications like MS-ACCESS entries in the section TBODBC in the file TBWIN.INI have to be done.

The following entries are evaluated by the ODBC driver:

`CONSISTENCY_RW=<cons_value>`

The consistency level for connections which may update the database will be set to the specified `cons_value`.

The consistency level for read only connections will be set to the specified `cons_value`.

The allowed values for `cons_value` are 1, 2 and 3 and correspond to the values `CONS_1`, `CONS_2` and `CONS_3` which are described in the System and Installation Guide.

If none of the `CONSISTENCY` values are configured in the TBWIN Section, then for all connections Consistency Level 3 will be assumed.

## Chapter 3

# Using MS-ACCESS with Transbase ODBC

For MS-ACCESS (Version 1.1) the following lines have to be set in the TBWIN section:

```
CONSISTENCY_RW=3  
CONSISTENC_RO=1
```

Because of some errors in the MS-ACCESS database engine the following features are not available in conjunction with the Transbase ODBC driver:

- Exporting a Table to Transbase
- Numeric, Doubles, Floats, Dates, Times and Timestamps in the primary key or a unique index.
- empty strings are not handled correctly because MS-ACCESS treats empty strings as NULL.
- Imported Tables are updatable if there exist at least one unique index.
- The Bundled (Linked-In) Version of Transbase ODBC will not work in conjunction with MS-ACCESS because MS-ACCESS needs at least two connections on the same database.

In later versions of MS-ACCESS and Transbase some of the above restrictions may be dropped.

## Chapter 4

# Using JAM/DBi ODBC with Transbase ODBC

For JAM/DBi ODBC only the following line has to be added in the TBWIN Section:

JAM=ON

No restrictions or deviations from the ODBC functionality are currently known.