

Advantage™ Database Server ODBC Driver

KEY FEATURES

- Provides client/server access to the Advantage Database Server RDBMS
- Fully scalable from local to peer-to-peer to client/server environments with no code changes necessary
- Royalty-free distribution for local and peer-to-peer environments using the Advantage Local Server
- Supports SQL commands with both the Advantage Database Server and Advantage Local Server
- ODBC Version 3 compliant driver with Level 2 API conformance
- Includes full server-based transaction processing to eliminate database corruption, drastically minimizing support costs
- provides complete referential integrity support including primary/foreign key definition and cascaded updates and deletes
- includes database security functionality and encryption support
- Low maintenance—no DBA required

The Advantage ODBC Driver is an ODBC Version 3 compliant driver that provides a native connection to the Advantage Database Server and Advantage Local Server. The driver provides full support for the Minimum ODBC SQL grammar specification, as well as most functions included in the Core and Extended grammar specifications. The Advantage ODBC Driver installs in minutes and provides access to Advantage databases from virtually any Windows or Linux environment. When used in combination with the Advantage Database Server, ODBC users can have the stability, performance, and reduced network traffic benefits of client/server architecture.

FULL SCALABILITY—WRITE ONCE, DEPLOY ANYWHERE

Advantage applications can be deployed in stand-alone, peer-to-peer, client/server, and Internet environments with one set of source code. Advantage does not require a different ODBC driver or different set of code for different deployment environments. The Advantage ODBC Driver will automatically determine if the Advantage Database Server is available directly or via the Advantage Internet Server, or whether the Advantage Local Server should be used. You only need to write one application with one version of code for local, peer-to-peer, client/server, or Internet database access.

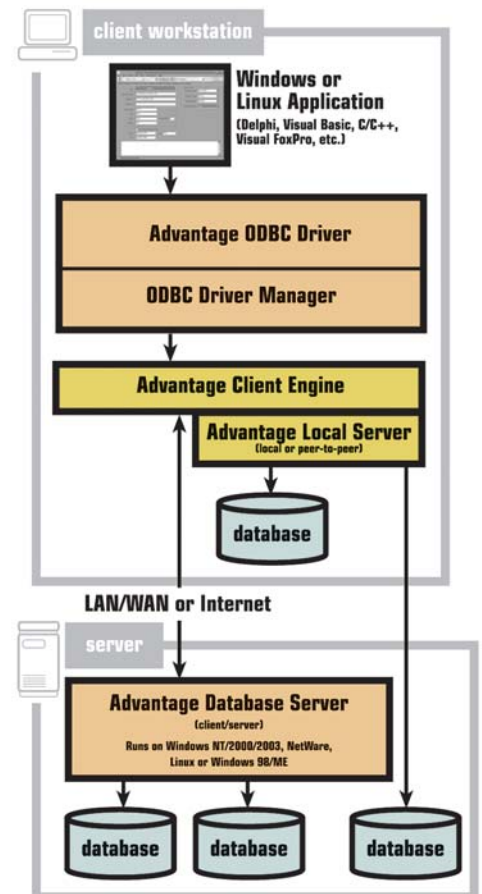
PERFORMANCE

The Advantage ODBC Driver does not suffer from the same performance problems typical of ODBC drivers. The Advantage ODBC Driver is an ultra-thin client that passes SQL statements on to the Advantage SQL engine in the Advantage Database Server and Advantage Local Server.

SPECIFICATIONS

Conformance

The Advantage ODBC Driver is a fully functional ODBC Version 3 driver with Level 2 API conformance. The Advantage SQL engine has SQL support that consists of most of the ANSI SQL-92 standard with ODBC extensions as well as SQL scripting.



Server operating systems (via the Advantage Database Server)

- Novell NetWare 5.x or greater (IP, IPX)
- Microsoft Windows x86 (IP, IPX)
- Microsoft Windows x86_64 (IP)
- Linux x86, x86_64 (IP)

Client operating systems

- Microsoft Windows
- Linux

Supported file formats

- Advantage proprietary database (ADT tables, ADI index files, ADM memo files)
- FoxPro-compatible (DBF tables, CDX index files, FPT memo files)
- CA-Clipper compatible (DBF tables, NTX index files, DBT memo files)
- Visual FoxPro-compatible (DBF tables, CDX index files, FPT memo files)

Database maximums

- Maximum ADT table size
 - Windows NT/2000/XP/2003 with NTFS — 16 exabytes (18,446,744,073,709,551,616 bytes)
 - Windows NT/2000/XP/2003 with FAT32 — 4 gigabytes (4,294,967,296 bytes)
 - NetWare 5 or greater with NSS file systems — 16 exabytes (18,446,744,073,709,551,616 bytes)
 - NetWare 5 or greater with traditional file systems — 4 gigabytes (4,294,967,296 bytes)
 - NetWare 4 — 4 gigabytes (4,294,967,296 bytes)
 - Linux pre-2.1.2 — 11 glibc and pre-2.4 kernel — 2 gigabytes (2,147,483,648 bytes)
 - Linux glibc 2.1.2 — 11+ with kernel 2.4+ — 8 exabytes (9,223,372,036,854,775,807 bytes)
- Maximum DBF table size — 4 gigabytes (4,294,967,296 bytes)
 - (depending upon operating system and file system)
- Maximum number of records — 2.2 billion
- Maximum record length — 65,530 bytes
- Maximum field name length — 128 characters for ADT tables, 10 characters for DBF tables
 - (dictionary-bound Visual FoxPro tables can have names up to 128 characters)
- Maximum number of columns per table — ~3,500 for ADT tables, 2,035 for DBF tables

DATA TYPES SUPPORTED

Advantage ADT data type

AutoIncrement
Binary
Character
CCharacter
CurDouble
Date
Double
Image
Integer
Logical
Memo
Money
Numeric
Raw
ShortInteger
Time
TimeStamp
VarBinary
VarChar

ODBC data type

SQL_INTEGER
SQL_LONGVARIABLE
SQL_CHAR
SQL_CHAR
SQL_DOUBLE
SQL_DATE
SQL_DOUBLE
SQL_LONGVARIABLE
SQL_INTEGER
SQL_BIT
SQL_LONGVARCHAR
SQL_NUMERIC
SQL_DECIMAL
SQL_CHAR
SQL_SMALLINT
SQL_TIME
SQL_TIMESTAMP
SQL_VARBINARY
SQL_VARCHAR

DBF data type

AutoIncrement
Binary
Char
Date
Double
Image
Integer
Logical
Memo
Money
Numeric
ShortDate
TimeStamp
VarBinary
VarChar

ODBC data type

SQL_INTEGER
SQL_LONGVARIABLE
SQL_CHAR
SQL_DATE
SQL_DOUBLE
SQL_LONGVARIABLE
SQL_INTEGER
SQL_BIT
SQL_LONGVARCHAR
SQL_NUMERIC
SQL_DECIMAL
SQL_DATE
SQL_TIMESTAMP
SQL_VARBINARY
SQL_VARCHAR

DRIVER BOUNDARIES

Description

Number of rows returned
Number of connections
Number of statements
Table qualifier (path)
Number of joined tables

Driver boundary

2.1 billion
Limited by memory
Limited by memory per connection
Limited by operating system
Limited by memory

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