



TIBCO® Data Virtualization

MySQL Adapter Guide

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TDV MySQL Adapter

Introduction

This section explains the various connection and configuration options of the datasource MySQL as well as the capabilities:

[Obtain and Install the Driver for MySQL](#)

[Using the MySQL SingleStore Adapter](#)

[Datasource Configuration](#)

[MySQL Caching Limitations](#)

[Data Type Mappings](#)

[MySQL Function Support](#)

[References](#)

Obtain and Install the Driver for MySQL

Obtain and install the JDBC driver for MySQL

Query the web for “MySQL driver”. Pick one of the reputable web sites, for example:

<https://dev.mysql.com/downloads/connector/j/>

1. Find the MySQL JDBC driver distributed as a TAR or zip file for the version of MySQL that you need. If you need an older version of the JDBC driver, you can download it from:

<https://downloads.mysql.com/archives/c-j/>

2. After extracting the JDBC driver (mysql-connector-java-<ver>-bin.jar) from the tar or zip file.
3. Copy it to the appropriate TDV installation directory:

```
<TDV_install_dir>\conf\adapters\system\mysql_<ver>
```

4. Add the Connector/J location to your Java CLASSPATH.
5. Restart the TDV Server.

Refer to the Installation guide for more details about the supported versions.

Using the MySQL SingleStore Adapter

MySQL Adapter can be used to connect to a SingleStore database. To obtain and install the driver refer to [Obtain and Install the Driver for MySQL](#). SingleStore datasource can be used both as a data source and an in-memory cache for operational and analytic workloads.

To create a SingleStore datasource using the MySQL adapter, choose SingleStore-MySQL from the New Physical Datasource Window. Refer to the section [Datasource Configuration](#) for details about configuring the datasource.

Datasource Configuration

This section explains the connection properties that are defined while setting up a datasource.

Basic Tab

The following table and the sections below lists and explains the connection properties that are in the Basic Tab of the New Data Source Window.

Datasource Name	The name of the Datasource.
Host	Name of the host machine or the host machine's IP address.
Port	Port number for the data source to connect with the host.

	The Port number for MySQL is 3306. Default is 3306 or the base port setting plus eight, depending on the MySQL instance.
Database Name	Name or alias of the underlying data source. TDV Server uses this name to find and connect to the data source.
Login/User, Password	User name and password required to access the data source.
Pass-through Login	Flag to indicate whether pass-through login is enabled or not.
Transaction Isolation	The degree to which transactions are isolated from data modifications made by other transactions.

Datasource Name

The name of the data source.

Data Type

string

Default Value

""

Host

Name of the host machine or the host machine's IP address.

Data Type

string

Default Value

""

Port

The Port number

Data Type

string

Default Value

""

Database Name

Name or alias of the underlying data source. TDV Server uses this name to find and connect to the data source.

Data Type

string

Default Value

""

Login/User, Password

User name and password required to access the data source.

Data Type

string

Default Value

“”

Remarks

When the data source is used as a target for cache tables or data ship, the user must also have permission to create tables, execute DDL, and perform other required tasks. Refer to the individual data source descriptions for details.

Transaction Isolation

The degree to which transactions are isolated from data modifications made by other transactions.

Data Type

string

Default Value

NONE

Remarks

Valid values are:

- Read Uncommitted—Dirty reads, nonrepeatable reads, and phantom reads can occur.
- Read Committed—Nonrepeatable reads and phantom reads can occur.
- Repeatable Read—Only phantom reads can occur.
- Serializable—Dirty reads, nonrepeatable reads, and phantom reads are prevented.
- None

Pass-through Login

Flag to indicate whether pass-through login is enabled or not.

Data Type

string

Default Value

""

Remarks

Disabled (default)—This allows automated provisioning of a connection pool. Open connection threads can be used by authorized users after the validation query verifies connection status. If pass-through login is disabled, the Save Password check box is not available.

Enabled—A new connection to the data source uses the credentials supplied by the client when data is requested from that data source for the first time. Subsequent requests by the same user reuse the existing connection. When another user attempts to connect to a data source, a new connection is created.

See “Managing Security for TDV Resources” in the TDV Administration Guide for details.

Advanced Tab

Connection URL Pattern	A template for generating a URL to connect to the physical data source.
Connection URL String	The URL string generated from the connection URL pattern with the connection information you provide.
JDBC Connection Properties	Lets you specify property-value pairs to pass to the JDBC data source
Connection Pool Maximum Size	Maximum number of connections (both active and idle) allowed for the data source. When the maximum is reached, new requests must wait until a connection is available.

Connection Pool Minimum Size	Minimum number of connections in the pool even when the pool is inactive.
Connection Pool Idle Timeout	Number of seconds that a connection can remain idle without being dropped from the pool when there are more than the minimum number of connections.
Maximum Connection Lifetime	The number of minutes that a connection that was returned to the pool persists if there are more open connections than the minimum pool size.
Connection Validation Query	A data-source-specific query that the TDV query engine sends to see if the data source connection is valid. This query is executed every time a connection is checked out from the pool. Enter a query that returns quickly.
Execution Timeout	The number of seconds an execution query on the data source can run before being canceled.
Execute SELECTs Independently	Lets a SELECT statement be executed using a new connection from the connection pool, and committed immediately after completion. INSERT, UPDATE, and DELETE statements are executed using the same connection as part of the transaction.
Connection Checkout Procedure	A procedure that returns a valid SQL statement that can be used to initialize the connection.
Supports Star Schema	Check only if this data source supports very large predicates and very large cardinalities for star schema semijoins.
Max Source Side Cardinality for Semi Join	See the documentation for semijoins and the TDV Administration Guide for more information.
Min Target to Source Ratio for Semi Join	Sets the minimum target-to-source ratio of cardinality for semijoins. Refer to the TDV Administration Guide for more information.

Max Source Side of Semi Join To Use OR Syntax	See the documentation for semijoins and the TDV Administration Guide for more information.
Enable Native Data Loading	Lets the data source use its proprietary functionality to optimize performance.
Collation Sensitive	TDV does not use the SORT MERGE join algorithm if any data source involved in the join is marked Collation Sensitive.
Concurrent Request Limit	Works with the Massively Parallel Processing engine configuration parameters to control the amount of parallelization for the queries for a particular data source.
Streaming Results Mode	If selected (default), streams the result set row by row from MySQL to TDV. If not selected, MySQL does not send results to TDV until all results are gathered. For details, see the README.txt file in MySQL JDBC adapter's docs directory.
Show All Databases	Check this option to list all databases accessible using these credentials during introspection.

Connection URL Pattern

A template for generating a URL to connect to the physical data source.

Data Type

string

Default Value

jdbc:<DATA SOURCE>//<HOST>:<PORT>/<DATABASE_NAME>

Remarks

TDV does not validate modifications at the time of configuration. The data source adapter might not validate changes.

Connection URL String

The URL string generated from the connection URL pattern with the connection information you provide.

Data Type

string

Default Value

“”

Remarks

This string is used by the JDBC adapter to connect to the physical data source. This field cannot be edited. For details, see the section “Connecting through JDBC Adapters” in the *TDV Administration Guide*.

JDBC Connection Properties

Lets you specify property-value pairs to pass to the JDBC data source.

Data Type

string

Default Value

“”

Remarks

Click to add custom connection properties for any JDBC data source. Commonly used properties are populated with default values. Use the Add Argument button to specify other properties and values.

TDV does not validate property names. Some data source adapters ignore invalid property names or values; others return an error.

The driver properties specify connection timeout settings required by specific drivers. To avoid leaving connections open indefinitely, specify properties explicitly for your data source.

Connection Pool Maximum Size

Maximum number of connections (both active and idle) allowed for the data source. When the maximum is reached, new requests must wait until a connection is available.

Data Type

Numeric

Default Value

100

Remarks

If the maximum number of connections is in use when a request comes in (even with pass-through authentication), the new request is blocked and queued until a connection is available or the Connection Pool Idle Timeout is reached.

If no connection was made available within the specified timeout, a check is made for an available connection by the same user. If none is available, the least recently used connection for another user is dropped and a new connection is opened.

Studio reuses pooled connections if they continue to be valid after changes (such as connection name), but JDBC requests are forced to use new connections if any part of the data source connection configuration has changed.

Connection Pool Minimum Size

Minimum number of connections in the pool even when the pool is inactive.

Data Type

Numeric

Default Value

0

Remarks

When a connection has been idle, a validation query is used to verify whether an open connection is still valid just prior to submission of a request. If the connection is invalid, the connection is discarded and another is used.

Connection Pool Idle Timeout

Number of seconds that a connection can remain idle without being dropped from the pool when there are more than the minimum number of connections.

Data Type

Numeric

Default Value

30

Maximum Connection Lifetime

The number of minutes that a connection that was returned to the pool persists if there are more open connections than the minimum pool size.

Data Type

Numeric

Default Value

30

Remarks

The duration is calculated from connection creation. Default value is 60 minutes. Set a smaller value if the pool is likely to run out of connections. Be sure to add a validation query. Set a larger value if you want the connections to be held for a longer period. Set a value of 0 to keep connections alive indefinitely.

Connection Validation Query

A data-source-specific query that the TDV query engine sends to see if the data source connection is valid. This query is executed every time a connection is checked out from the pool. Enter a query that returns quickly.

Data Type

string

Default Value

""

Remarks

If this query returns a non-error result, the data source connection is considered valid. If this query fails, the connection is discarded and a new connection is checked out from the available pool.

No one SELECT statement works with all data sources. To verify that TDV is running and that it can connect to the data source, devise a query against a published table from that data source.

Enable Native Data Loading

Lets the data source use its proprietary functionality to optimize performance.

Data Type

Bool

Default Value

True

Remarks

See the User Guide, Chapter About Data Source Native Load Performance Options” for more details,.

Collation Sensitive

TDV does not use the SORT MERGE join algorithm if any data source involved in the join is marked Collation Sensitive.

Data Type

Bool

Default Value

False

Remarks

None

Concurrent Request Limit

Works with the Massively Parallel Processing engine configuration parameters to control the amount of parallelization for the queries for a particular data source.

Data Type

Numeric

Default Value

0

Remarks

None

Streaming Results Mode

If selected (default), streams the result set row by row from MySQL to TDV. If not selected, MySQL does not send results to TDV until all results are gathered. For details, see the README.txt file in MySQL JDBC adapter's docs directory.

Data Type

Bool

Default Value

True

Remark

None

Execution Timeout

The number of seconds an execution query on the data source can run before being canceled.

Data Type

Numeric

Default Value

0

Remarks

None

Execute SELECTs Independently

Lets a SELECT statement be executed using a new connection from the connection pool, and committed immediately after completion. INSERT and UPDATE statements are executed using the same connection as part of the transaction.

Data Type

Bool

Default Value

True

Remarks

None

Connection Checkout Procedure

A procedure that returns a valid SQL statement that can be used to initialize the connection.

Data Type

string

Default Value

""

Remarks

The signature of the initialization procedure should be:

```
(IN ds_name VARCHAR, OUT sqlText VARCHAR)
```

Give the full path to the procedure in the Connection Check-out Procedure box.

Max Source Side Cardinality for Semi Join

See the documentation for semijoins and the TDV Administration Guide for more information.

Data Type

Numeric

Default Value

""

Remarks

None

Max Source Side of Semi Join To Use OR Syntax

See the documentation for semijoins and the TDV Administration Guide for more information.

Data Type

Numeric

Default Value

2147483647

Remarks

None

Min Target to Source Ratio for Semi Join

Sets a minimum ratio to trigger use of semi join optimization.

Data Type

Numeric

Default Value

""

Remarks

None

Supports Star Schema

Check only if this data source supports very large predicates and very large cardinalities for star schema semijoins.

Data Type

Bool

Default Value

False

Remarks

Refer to the section Star Schema Semijoin in the User Guide, for more information.

Show All Databases

Check this option to list all databases accessible using these credentials during introspection.

Data Type

Bool

Default Value

False

Remarks

None

Data Type Mappings

MySQL to TDV Data Types

The following table shows the mapping from MySQL data types to TDV data types.

Numeric scale (s) has a range of 0 through 30, but it cannot exceed precision (p). Precision has a range of: 1 through 264 (MySQL 5.0.2 and earlier); 1 through 64 (MySQL 5.0.3 to 5.0.5); or 1 through 65 (MySQL 5.0.6 and later).

MySQL Data Type	TDV Data Type	Notes
BIGINT	BIGINT NUMERIC(20, 0)	
BINARY	BINARY	
BIT	BIT	
BIT(1)	BOOLEAN	MySQL 5.0 override.
BLOB	VARBINARY	

MySQL Data Type	TDV Data Type	Notes
BOOL	BOOLEAN	
CHAR	CHAR	
DATE	DATE	
DATETIME	TIMESTAMP	
DEC	DECIMAL	
DECIMAL	DECIMAL	
DOUBLE	DOUBLE	
DOUBLE PRECISION	DOUBLE	
DOUBLE UNSIGNED	DOUBLE	
ENUM	VARCHAR	
FIXED	DECIMAL	
FLOAT	DOUBLE	
FLOAT UNSIGNED	DOUBLE	
INT	INTEGER	Unsigned INT or unsigned INTEGER.
INTEGER	INTEGER	
LOBLOB	BLOB	
LONGTEXT	CLOB	
MEDIUMBLOB	BLOB	

MySQL Data Type	TDV Data Type	Notes
MEDIUMINT	INTEGER	
MEDIUMTEXT	CLOB	
NUMERIC	DECIMAL	
REAL	DOUBLE	
SET	VARCHAR	
SMALLINT	SMALLINT	
TEXT	VARCHAR	
TIME	TIME	
TIMESTAMP	TIMESTAMP	
TINYBLOB	VARBINARY	
TINYINT	TINYINT	
TINYTEXT	VARCHAR	
VARBINARY	VARBINARY	
VARCHAR	VARCHAR	
YEAR	SMALLINT	

MySQL Cache Mapping

This section discusses the data type mappings and restrictions for caches stored on MySQL.

- MySQL removes trailing spaces from strings stored in a VARCHAR column and trailing 0x20 bytes from a VARBINARY column.
- MySQL truncates millisecond data from TIME, DATETIME, and TIMESTAMP columns.

- MySQL changes any NULL stored in a TIMESTAMP column into the current date. Use DATETIME to preserve NULL values.
- TDV creates tables using the UTF8 character set to handle international characters properly. You can create the tables using other character sets based on your performance and character set needs.
- Small variations in the least significant digits may be encountered when storing FLOAT and DOUBLE values due to the way the driver handles and database stores such data.

The following table shows the mapping from TDV data types to native types.

Data Type	Preferred Native Type	Other Allowed Native Types
BIGINT	BIGINT	DECIMAL(19+, 0), larger INTEGER types, VARCHAR(20+)
BINARY(n)	BLOB; LONGBLOB [if n > 255]	TINYBLOB, BLOB, MEDIUMBLOB, LONGBLOB
BIT	BIT	DECIMAL(1+, 0), larger INTEGER types
BLOB	LONGBLOB	
BOOLEAN	BIT	BIT, BOOL
CHAR(n)	CHAR(n); LONGTEXT [if n > 255]	CHAR(n+), TINYTEXT, TEXT, MEDIUMTEXT, LONGTEXT
CLOB	CLOB	
DATE	DATE	VARCHAR(10+)
DECIMAL(p,s)	DECIMAL(p,s); TEXT [if p > 30]	DECIMAL(p+,s+), VARCHAR (p+3+), TINYTEXT, MEDIUMTEXT, LONGTEXT, INTEGER types with enough resolution

Data Type	Preferred Native Type	Other Allowed Native Types
DOUBLE	DOUBLE	VARCHAR(24+)
FLOAT	FLOAT	VARCHAR(24+)
INTEGER	INTEGER	DECIMAL(10+, 0), larger INTEGER types, VARCHAR(20+)
NUMERIC(p,s)	NUMERIC(p,s); TEXT [if p > 30]	DECIMAL(p+,s+), VARCHAR (p+3+), TINYTEXT, MEDIUMTEXT ,LONGTEXT, INTEGER types with enough resolution
SMALLINT	SMALLINT	DECIMAL(5+, 0), larger INTEGER types, VARCHAR(20+)
TIME	TIME	VARCHAR(15+)
TIMESTAMP	DATETIME	TIMESTAMP
TINYINT	TINYINT	DECIMAL(3+, 0), larger INTEGER types, VARCHAR(20+)
VARBINARY(n)	BLOB; LONGBLOB [if n > 255]	TINYBLOB, BLOB, MEDIUMBLOB, LONGBLOB
VARCHAR(n)	VARCHAR(n); LONGTEXT [if n > 255]	VARCHAR(n+), TINYTEXT, TEXT, MEDIUMTEXT, LONGTEXT
XML	LONGTEXT	VARCHAR(*), TINYINT, TEXT, MEDIUMTEXT [Truncates data if column too small]

MySQL Function Support

TDV supports the following types of functions for MySQL:

- [MySQL Aggregate Function Support](#)

- [MySQL Analytic Function Support](#)
- [MySQL Analytic Aggregate Function Support](#)
- [MySQL Character Function Support](#)
- [MySQL Conditional Function Support](#)
- [MySQL Conversion Function Support](#)
- [MySQL Date Function Support](#)
- [MySQL Numeric Function Support](#)
- [MySQL Time Function Support](#)
- [MySQL XML Function Support](#)

Note: If MySQL returns data instead of an error message when, for example, “xk” is CAST as an INTEGER, set SQL_MODE to TRADITIONAL in the MySQL database. This makes function results the same for push and no-push.

MySQL Aggregate Function Support

TDV supports the aggregate functions listed in the table below for MySQL.

MySQL Aggregate Function	Notes
AVG	DISTINCT and STRING are not supported.
COUNT	DISTINCT not supported.
MAX	DISTINCT not supported.
MIN	DISTINCT not supported.
SUM	DISTINCT not supported.

MySQL Analytic Aggregate Function Support

TDV supports the analytic aggregate functions listed in the table below for MySQL.

MySQL Analytic Aggregate Function	Notes
STDDEV	MySQL 3.0 only.
STDDEV_SAMP	MySQL 5.0.3 only.
VAR_SAMP	MySQL 5.0.3 only.
VARIANCE_POP	MySQL 4.1 and 5.0 only.

MySQL Analytic Function Support

TDV supports the analytic function listed in the table below for MySQL 3.0.

MySQL Analytic Function	Notes
STDDEV_POP	

MySQL Caching Limitations

MySQL sets names to lowercase if it is running on Windows, even if you enclose the mixed case string in double quotes. When using MySQL tables as cache targets, either use the TDV browse option to choose the table, or make sure that you assign lowercase names to tables.

The TDV native load option cannot load binary data.

When using MySQL as a cache target, note the data type limitations, by data source, listed in the following table. Also when MySQL 5.5 is the cache target, time and time stamp data types lose precision for milliseconds and other fractional seconds.

Cache Data Source	Data Types Not Supported	Cache Target
DB2 9.5	BLOB	MySQL 5.5

Cache Data Source	Data Types Not Supported	Cache Target
Oracle 11g	BLOB LONGRAW	MySQL 5.5
Sybase 15	BINARY, IMAGE, VARBINARY, or TIMESTAMP	MySQL 5.5
SQL Server 2008	BINARY, IMAGE, VARBINARY, or TIMESTAMP	MySQL 5.5
SQL Server 2012	IMAGE	MySQL 5.1

TDV Native Loading Option MySQL Limitation

The TDV native load option cannot load binary data.

MySQL Character Function Support

TDV supports the character functions listed in the table below for MySQL.

MySQL Character Function	Notes
CONCAT	
LENGTH	
LOWER	
POSITION	Case-sensitive in MySQL 3.23. In MySQL 4.0 and later, case-sensitive only if the arguments are binary strings.
REPLACE	

MySQL Character Function	Notes
RTRIM	
SPACE	
SUBSTRING	
TRIM	
UPPER	

MySQL Conditional Function Support

TDV supports the conditional functions listed in the table below for MySQL.

MySQL Conditional Function	Notes
COALESCE	
DECODE	Mapped to CASE.

MySQL Conversion Function Support

TDV supports the conversion functions listed in the table below for MySQL. Conversion functions map data types differently depending on the MySQL version.

MySQL Conversion Function	Notes
CAST	<ul style="list-style-type: none"> Supported only for MySQL 4.0.2 or higher. If a JConnector version prior to 5.1.28 is used, fractional seconds returned from CAST STRING to TIMESTAMP are erroneously offset three decimal places

MySQL Conversion Function	Notes
	<p>to the right.</p> <ul style="list-style-type: none"> • Casting as a whole number converts NULL values to zero, so whole numbers cannot be pushed safely. • When casting a NULL value for a TIMESTAMP column as VARCHAR, MySQL might return either NULL or '0000-00-00 00:00:00' (depending on the default-value setting for the column in the data source). TDV server (no push) always returns NULL. • Depending on MySQL server-side settings (TRADITIONAL vs. STRICT), can return data and warnings or no data and error when casting incompatible data types.
FORMAT_DATE	Supported only for MySQL 4.1.1 or higher.
PARSE_DATE	Supported only for MySQL 4.1.1 or higher.
PARSE_TIME	Supported only for MySQL 4.1.1 or higher.
PARSE_TIMESTAMP	Supported only for MySQL 4.1.1 or higher.
TO_CHAR	Supported only for MySQL 4.0.2 or higher.
TO_DATE	Supported only for MySQL 4.0.2 or higher. Variant mappings for different versions.
TO_NUMBER	Supported only for MySQL 4.0.2 or higher.
TO_TIMESTAMP	Supported only for MySQL 4.0.2 or higher.

MySQL Date Function Support

TDV supports the date functions listed in the table below for MySQL.

MySQL Date Function	Notes
CURRENT_DATE	
CURRENT_TIME	
CURRENT_TIMESTAMP	
DATEADD	DATEADD(type, interval, date)
DATE_ADD	DATE_ADD(date,INTERVAL expr type)
DATEDIFF	DATEDIFF (enddate, startdate)
DAY	
MONTH	
UTC_TO_TIMESTAMP	
YEAR	

MySQL Numeric Function Support

TDV supports the numeric functions listed in the table below for MySQL.

MySQL Numeric Function	Notes
ABS	
ACOS	
ASIN	
ATAN	
CEILING	

MySQL Numeric Function	Notes
COS	
COT	
DEGREES	
EXP	
FLOOR	
LOG	MySQL 5.5 returns natural log (base e) of a number. TDV server default is base 10.
POWER	
RADIANS	
RANDOM	
ROUND	
SIN	
SQRT	
TAN	

MySQL Specific Properties

This section describes the connection properties that are specific to the MySQL data source.

Port	Port number for the data source to connect with the host.
------	---

The Port number for MySQL is 3306.

Default is 3306 or the base port setting plus eight, depending on the MySQL instance.

Streaming Results Mode

If selected (default), streams the result set row by row from MySQL to TDV. If not selected, MySQL does not send results to TDV until all results are gathered. For details, see the README.txt file in MySQL JDBC adapter's docs directory.

MySQL Time Function Support

TDV supports the time function listed in the table below for MySQL versions 4.1 and 5.0.

MySQL Time Function	Notes
EXTRACT	

MySQL XML Function Support

Delete this text and replace it with your own content.

TDV supports the XML functions listed in the table below for MySQL datasource.

MySQL XML Function	Notes
EXTRACTVALUE	
XML_EXTRACT	

References

Refer to the following Guides for further details about the capabilities of the data source:

Capabilities	Section
Query Engine	User Guide, Chapter <i>TDV Query Engine Optimizations</i>
Data ship	User Guide, Chapter <i>Data Ship Performance Optimization</i>
Caching	User Guide, Chapter <i>TDV Caching</i>
Performance Optimization	User Guide, Chapter <i>Performance Tuning</i>
TDV Massively Parallel Processing Engine	User Guide, Chapter <i>Configuring the TDV MPP Engine</i>
Kerberos	Administration Guide Chapter <i>Configuring Kerberos</i>

TIBCO Product Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCO Support, and join the TIBCO Community.

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the [TIBCO Product Documentation](#) website, mainly in HTML and PDF formats.

The [TIBCO Product Documentation](#) website is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

The following documentation for this product is available on the [TIBCO® Data Virtualization](#) page.

- **Users**
 - TDV Getting Started Guide
 - TDV User Guide
 - TDV Web UI User Guide
 - TDV Client Interfaces Guide
 - TDV Tutorial Guide
 - TDV Northbay Example
- **Administration**
 - TDV Installation and Upgrade Guide
 - TDV Administration Guide
 - TDV Active Cluster Guide
 - TDV Security Features Guide
- **Data Sources**

TDV Adapter Guides

TDV Data Source Toolkit Guide (Formerly Extensibility Guide)

- **References**

TDV Reference Guide

TDV Application Programming Interface Guide

- **Other**

TDV Business Directory Guide

TDV Discovery Guide

- *TIBCO TDV and Business Directory Release Notes* Read the release notes for a list of new and changed features. This document also contains lists of known issues and closed issues for this release.

How to Contact TIBCO Support

Get an overview of [TIBCO Support](#). You can contact TIBCO Support in the following ways:

- For accessing the Support Knowledge Base and getting personalized content about products you are interested in, visit the [TIBCO Support](#) website.
- For creating a Support case, you must have a valid maintenance or support contract with TIBCO. You also need a user name and password to log in to [TIBCO Support](#) website. If you do not have a user name, you can request one by clicking **Register** on the website.

Release Version Support

TDV 8.5 is designated as a Long Term Support (LTS) version. Some release versions of TIBCO® Data Virtualization products are selected to be long-term support (LTS) versions. Defect corrections will typically be delivered in a new release version and as hotfixes or service packs to one or more LTS versions. See also

https://docs.tibco.com/pub/tdv/general/LTS/tdv_LTS_releases.htm.

How to Join TIBCO Community

TIBCO Community is the official channel for TIBCO customers, partners, and employee subject matter experts to share and access their collective experience. TIBCO Community offers access to Q&A forums, product wikis, and best practices. It also offers access to extensions, adapters, solution accelerators, and tools that extend and enable customers to gain full value from TIBCO products. In addition, users can submit and vote on feature requests from within the [TIBCO Ideas Portal](#). For a free registration, visit [TIBCO Community](#).

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