



# **TIBCO® Data Virtualization and Business Directory**

## **Release Notes**

*Version 8.4*

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# Preface

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Documentation for this and other TIBCO products is available on the TIBCO Documentation site. This site is updated more frequently than any documentation that might be included with the product. To ensure that you are accessing the latest available help topics, please visit:

- <https://docs.tibco.com>

## Product-Specific Documentation

The following documents form the TIBCO® Data Virtualization(TDV) documentation set:

- **Users**
  - TDV Getting Started Guide
  - TDV 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 Access TIBCO Documentation

Documentation for TIBCO products is available on the TIBCO Product Documentation website mainly in the HTML and PDF formats.

The TIBCO Product Documentation website is updated frequently and is more current than any other documentation included with the product. To access the latest documentation, visit <https://docs.tibco.com>.

Documentation for TIBCO Data Virtualization is available on <https://docs.tibco.com/products/tibco-data-virtualization-server>.

## How to Contact TIBCO Support

You can contact TIBCO Support in the following ways:

- For an overview of TIBCO Support, visit <https://www.tibco.com/services/support>.
- For accessing the Support Knowledge Base and getting personalized content about products you are interested in, visit the TIBCO Support portal at <https://support.tibco.com>.
- 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 <https://support.tibco.com>. If you do not have a user name, you can request one by clicking **Register** on the website.

## 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, go to <https://community.tibco.com>.



## **TIBCO Spotfire® Advanced Data Services License Restrictions**

If you are licensing TIBCO® Data Virtualization as TIBCO Spotfire® Advanced Data Services, you can publish views from all supported data sources to TIBCO Spotfire® via JDBC, ODBC and ADO.NET except the following which are sold as separate license add-ons

- Oracle E-Business Suite
- Salesforce.com
- SAP Business Warehouse
- SAP ERP
- Siebel eBusiness Applications

Use of the business directory or clustering requires a full license to TIBCO Data Virtualization. A full TIBCO Data Virtualization license is also required for publishing views as web services or to clients that are not Spotfire® clients.

## **TIBCO Jaspersoft® Advanced Data Services License Restrictions**

If you are licensing TIBCO® Data Virtualization as TIBCO Jaspersoft® Advanced Data Services, you can publish views from all supported data sources to TIBCO Jaspersoft® via JDBC, ODBC and ADO.NET.

Use of the business directory or clustering requires a full license to TIBCO Data Virtualization. A full TIBCO Data Virtualization license is also required for publishing views as web services or to clients that are not Jaspersoft®.

## **TIBCO(R) Data Virtualization for TIBCO Cloud Metadata - Metadata Harvesting Limited Edition License Restrictions**

If you are licensing TIBCO® Data Virtualization as TIBCO(R) Data Virtualization for TIBCO Cloud Metadata - Metadata Harvesting Limited Edition, you can (re)introspect all supported data sources to retrieve metadata and provide them to TIBCO Cloud™ Metadata via Web services.

A full TIBCO Data Virtualization license is required for use of the business directory, clustering or provisioning data as well as publishing views as web services or publishing to any destination other than TIBCO Cloud™ Metadata.

If you want to upgrade from TIBCO(R) Data Virtualization for TIBCO Cloud Metadata - Metadata Harvesting Limited Edition to a full TIBCO(R) Data Virtualization license, you need to license TIBCO Data Virtualization for TIBCO Cloud Metadata - Upgrade to TIBCO(R) Data Virtualization.



## New in 8.4

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The TIBCO® Data Virtualization (TDV) 8.4 release is being distributed as an installable product. For information on the products and components included in TDV, see the *TDV Installation and Upgrade Guide*. For information on the products and components included in Business Directory, see the *Business Directory Guide*.

### New Features

TDV 8.4 includes features and enhancements in the following areas.

### New Adapters

#### Cloud File System Adapter

TDV now supports a generic file system adapter to support different cloud-based distributed/non-distributed file system based data sources. This adapter can be configured to connect to different network mounted or local file systems, and introspect different formatted data. The supported network mounted or local file systems may be distributed or non-distributed.

Currently TDV 8.4 includes supporting the following file systems and formats:

#### File systems:

- Amazon S3
- Azure Data Lake Storage
- Local File Storage

#### File formats:

- Parquet
- Delimited file format

### New Web Interface

The TIBCO Data Virtualization Web UI is a Self-Service data provisioning web user interface that enables you to create and publish your own views that can then be consumed in your 3rd party downstream apps.

Using the easy to use web interface, the data engineers, TDV developers and business analysts can easily search for available datasets in the Data Catalog.

Self-Service users can then create datasets, perform complex SQL queries to manipulate data, export and publish the result set. The complex data processing workflows created are reliable, repeatable and secure. The easy to use graphical interface's drag and drop feature lets you do all these with limited or no knowledge of SQL.

## Data Sources Improvements

### Support for DDL clauses in Vertica and Teradata

The following DDL clauses will now be supported in Vertica:

- BROADCAST
- PARTITION BY
- CLUSTER BY
- ORDER BY

The following DDL clause will be supported in Teradata:

- [UNIQUE | NO] PRIMARY INDEX

### Upgrade Liveview client to the latest Data Streams client

TDV 8.4 supports the new version of Liveview called as the Data Streams.

## APIs

### Support DSL through JDBC/ODBC/ADO.Net

The DSL API can now be executed through JDBC/ODBC/ADO.NET protocols.

### New examples in the Deployment Manager API Swagger documentation

New examples have been added to the Deployment Manager executeDDL API Swagger documentation.

## Client Protocols and Driver Improvements

### Support for unixODBC Driver Manager and DataDirect Driver Manager

unixODBC Driver Manager and DataDirect Driver Manager are now supported on Linux platforms.

## Server Infrastructure

### SSL Mutual Authentication

A new server configuration called "Enable SSL Mutual Authentication Login" has been added to enable the SSL Mutual Authentication. This setting helps the users access the TDV Server resources without a password and with just the user name and domain name.

### VCS improvement

A new VCS option "Include TDV Privileges configuration data when fetching from remote VCS" has been added. Selecting this option mimics the original behavior, which required the user to have the MODIFY\_ALL\_USERS right. Not selecting this option will allow the user to import changes from VCS without privilege information and resources will be owned by the user performing the import.

### Encryption of passwords used within the option file

The newly added option file password helps users secure and encrypt the sensitive information found in the option file. Users will need to provide this password to run their command line utilities such as pkg\_import, pkg\_export, backup\_import and backup\_export.

### Column Based Security (CBS) Rule

Users will be able to create CBS rules on a group containing users from two different domains (for example, Composite and LDAP).

### Column Based Security (CBS) Policy Assignments

CBS Policy assignments have been enhanced to include Boolean and BIT data types.

### **Custom Server Settings for External Tools**

New server configuration options (for server and cluster) have been added that can be tuned to use with external tools (for example PDTool). See the Configuration Panel.

### **Temp Directory Improvement**

Drill Temp directory now shares TDV Temp directory.

## **Deprecations**

Flash is being de-supported by all major browsers. The Web Monitor is being deprecated due to this. 3 graphs (Memory, I/O, and Storage) in Web Manager are affected by this. To see those graphs, use Manager within Studio.

## 8.4 Fixed and Known Issues

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This section contains:

- [TDV and Business Directory 8.4 Fixed Issues, page 15](#)
- [TDV and Business Directory 8.4 Known Issues, page 18](#)
- [TDV Web UI 8.4 Known Issues, page 25](#)

### TDV and Business Directory 8.4 Fixed Issues

The table below lists the issues fixed in TDV 8.4.

8.4 Fixed Issues	Description
CIS-72933	Fix to display a descriptive database error from the underlying TDV drivers to the end user.
CIS-88735	Fix to enable SSL Mutual authentication login.
CIS-90204	Support For DDL clauses for Vertica and Teradata
CIS-91980	Drill temp directory now shares TDV temp directory.
CIS-92135	Fix to enable creation of Column Based Security rules on a group containing users from two different domains (for example, Composite and LDAP).
CIS-92354	Documentation update for the "FORCE_ESTIMATION" option in Reference Guide > TDV Query Engine Options
CIS-92402	Fix for the alternateSecurityCredentials property map that is used to pass down the OAuthAccessTokenProperty to be processed accurately using the PowerBI data connector.
CIS-92597	Documentation update to the pkg_import command line utility specification about partially introspecting a view from a CAR file.

8.4 Fixed Issues	Description
CIS-92732	<p>Fix for Thai language supported fonts not displaying correctly in Studio. Follow these steps to add the selected fonts to the Studio properties:</p> <ol style="list-style-type: none"> <li>1. Set the font to Tahoma or a Thai-language supported font in Studio &gt; Edit &gt; Options &gt; Default Font</li> <li>2. Set the font to Tahoma or a Thai-language supported font in Studio &gt; Edit &gt; Editors &gt; Font</li> <li>3. Restart Studio.</li> </ol>
CIS-92783	Fix for the error encountered while running SOAP Transformation into Relational Data
CIS-92903	TDV pkg_import.sh when using options file throwing the error "Cannot set an attribute "path" on resource"
CIS-92905	Support for Boolean and BIT data types in CBS Policy assignments.
CIS-92959	Fix for Power BI driver failure for user with password that contains special characters
CIS-92992	Fix for the Odata \$expand function failure.
CIS-93006	Fix for issues encountered while importing external tables from Amazon Redshift into TDV.
CIS-93087	Fix for issues encountered when trying to make an OData call with one master entity to 2 child entities having the same column names.
CIS-93088	Fix for issues encountered in response data when we using \$expand=* for the entities that have 2 foreign keys.
CIS-93089	Fix for the Odata \$expand function incorrect behavior.
CIS-93098	Fix for error encountered when executing plan using Curl from Deployment Manager.
CIS-93173	Fix for issues encountered while rendering a multi-level expand containing a 1-to-many relationship.
CIS-93199	Fix for issues encountered with the OData expand functionality while using filters on nested/expanded entities, which causes invalid results.
CIS-93431	Fix for the error message "unknown operator: \$query" while fetching data from Azure CosmosDB 3.6 using MongoDB adapter in TDV.



8.4 Fixed Issues	Description
CIS-93439	Documentation update for the missing content of the Advanced Tab field columns.
CIS-93496	Fix for issues encountered while generating alias in SQL Server query.
CIS-93556	Fix for issues encountered while connecting to TDV 8.3 ODBC using the unixODBC driver manager.
CIS-93893	Fix for issues encountered when importing CAR files containing columns with NULL/no names.
CIS-94103	Fix for issues seen in GoogleBigQuery Adapter returning NULL records with certain WHERE clauses or with force_parallel option when data is large.
CIS-94187	Fix for issues seen when using TDV SQL Reserved Keywords as column names in views published via OData.
CIS-94202	Implemented performance settings for certain frequently updated repository tables such as security_privileges and metadata_attributes tables.
CIS-94310	Power BI related performance improvements for a TDV published resource.
CIS-94508	Fix for the XML parser decrypting character code as character (_x003a_ to ":") in table name using updateSqlTable API
CIS-94580	<p>In some situations, you may get an exception when using MAX/MIN/SUM(literal) aggregates. The exception may be similar to this:</p> <p>"The integer value 1,121 cannot be cast because it is outside the required range of 0 to 0"</p> <p>This issue has been fixed.</p>
CIS-94588	In an XSLT Transformation, if the schema of the source contains a "choice" element, the XSL code for the XSLT resource may be incorrect, resulting in empty or missing elements in the result set. This has been fixed.
CIS-94765	Doc update: Transaction Isolation appears be incorrectly described as a proxy-based firewall setting
CIS-95031	Fix for exception handling while executing SQL Script procedures.
CIS-95095	Doc update: Column-Level restrictions set in TDV has the same behavior when a resource is accessed through a client interface, whether the selected resource is a table or a view.

8.4 Fixed Issues	Description
CIS-95442	In TDV Server version 8.4, the monitor service process failed to start on non-English Windows Operating Systems. This has been fixed.
CIS-95846	In TDV Business Directory version 8.4, the monitor service process failed to start on non-English Windows Operating Systems. This has been fixed.
CIS-95899	The server_values.xml has incorrect path and causes the Business Directory 8.4 installation to fail. This has been fixed.

## TDV and Business Directory 8.4 Known Issues

Following are the known issues in this release:

8.4 Known Issues	Description
CIS-72953	Occasionally a query might be in a “READY” state for a very long time when it is served by the MPP engine. In that case, you should try to cancel the request from TDV to the MPP Engine using the request panel in TDV Manager.
CIS-86825	<p>On certain OS platforms, when un-attaching the last root directory, then attaching it again, you may encounter an exception - “commitOnRepoWithoutHEADCurrentlyNotSupported”</p> <p>Follow this workaround, in case of such an issue:</p> <ol style="list-style-type: none"> <li>1. Try to delete all files under <code>{{data/vcs/vcsinstances/{vcsconnection}/localworkspace}}</code>, including hidden files. If localworkspace directory is empty, you can try attaching again; if you are unable to delete all files, try 2nd option below.</li> <li>2. Go to vcs connection manager. Copy the existing vcs connection into a new one, and try to attach root to the new vcs connection.</li> </ol>

8.4 Known Issues	Description
CIS-88504	<p>After applying a “studio-only” patch, logging into TDV Studio with the encrypt option checked during login, will throw an exception.</p> <p>The workaround is:</p> <ol style="list-style-type: none"> <li>1. Open the studio bat file suffixed with the highest version number from the TDV_INSTALL/bin directory.</li> <li>2. Copy the contents of the parameters VM_ARGS, JAVA_OPTS and CLASSPATH.</li> <li>3. Open the un-versioned studio.bat file in the TDV_INSTALL/bin directory and replace the contents of the above parameters with the new content copied from the versioned studio.bat file.</li> </ol>
CIS-89633	<p>When pushed to ComputeDB data source, queries with aggregate function references in a HAVING clause may fail when a DISTINCT is also used.</p>
CIS-90011	<p>While loading a table using the ComputeDB datasource, note that every column must be assigned a value. Provide an explicit "NULL" value when a column is empty.</p>
CIS-90072	<p>The cursor position in some of the editors in TDV Studio may not be aligned properly. In that case, Go to “Settings-&gt;Display-&gt;Scale and layout-&gt;Advanced scaling settings” in your Windows machine and change the “Custom scaling” to 100%.</p>
CIS-90254	<p>For a SQL Server data source, if the user has a named instance defined, it has to be appended to the host:</p> <p>&lt;host&gt;\&lt;named instance&gt;</p>
CIS-90636	<p>Complex predicates are not supported when using the function get_json_object with no push option in a Tibco Streaming data source, . Only a single index or a “*” pattern is supported.</p>
CIS-91024	<p>For DST based adapters, in order to pass down ad-hoc JDBC properties to the underlying driver, you need to append the properties string to the connection url. For example:</p> <pre>jdbc:streaming@http://dv-docker-5:10080/?client-info=dvstudio</pre>
CIS-91196	<p>Any parameter value for ComputeDB functions that is larger than MAX_INT is going to have an overflow issue and return wrong results.</p>

8.4 Known Issues	Description
CIS-91469	<p>When upgrading a Studio-only Install, follow these steps to update the properties files:</p> <ol style="list-style-type: none"> <li>1. Open the studio.properties file suffixed with the highest version number from the TDV_INSTALL/conf/studio directory.</li> <li>2. Copy the contents of the parameters version and server version</li> <li>3. Open the un-versioned studio.properties file in the TDV_INSTALL/conf/studio directory and replace the contents of the above parameters with the new content copied from the versioned studio.properties file.</li> <li>4. Open the studio bat file suffixed with the highest version number from the TDV_INSTALL/bin directory.</li> <li>5. Copy the contents of the parameters VM_ARGS, and the content of the “for loop” that is below the VM_args</li> <li>6. Open the un-versioned studio.bat file in the TDV_INSTALL/bin directory and replace the contents of the above parameters with the new content copied from the versioned studio.bat file.</li> <li>7. Remove the second set of VM_ARGS declaration after for loop.</li> </ol>
CIS-91595	<p>While accessing the Swagger REST API doc endpoints with a stand alone session, if you encounter issues, clear the cookies and try again.</p>
CIS-91624	<p>You may notice errors in the log related to "cis_ds_oracle_type2" during downgrade from 8.3 to 8.2 or 8.1 on linux and AIX.</p>

8.4 Known Issues	Description
CIS-91815	<p>When downgrading TDV Server 8.3 to a lower version on windows, there are some errors seen in the server log file (for adapters Amazon DynamoDB and Oracle Eloqua). Follow these steps to Undeploy and Re-deploy the adapters:</p> <ol style="list-style-type: none"> <li>1. After the downgrade, start the server and undeploy the following adapters manually:  <pre>TDV_INSTALL_DIR&gt;bin\server_util.bat -server localhost -port 9400 -user admin -password admin1 -domain composite -undeploy -name DynamoDB -version 1 -verbose Listening for transport dt_socket at address: 8005 Success</pre> <pre>TDV_INSTALL_DIR&gt;bin\server_util.bat -server localhost -port 9400 -user admin -password admin1 -domain composite -undeploy -name Eloqua -version 1 -verbose Listening for transport dt_socket at address: 8005 Success</pre> </li> <li>2. Copy dynamodb.jar and eloqua.jar from <code>tdv_install_dir/packages/archived_ds_adapters</code> to <code>tdv_install_dir/packages/autodeploy_ds_adapters</code> and restart the server.</li> </ol>
CIS-91894	<p>TDV queries run in the MPP engine and involving COUNT aggregates on top of joins that return no results, might return no rows instead of a single row with the value 0.</p>
CIS-91913	<p>Use of a column aliases in WITH clause parameters will result in an unknown column exception in the Redshift adapter.</p>
CIS-91985	<p>When the default font is set to a monospaced typeface, query result data values with “_” will not be displayed. To display the underscore character, change the default font to sans serif or a different typeface.</p> <p><b>Note:</b> This occurs only in a Windows environment</p>

## 8.4 Known Issues

### Description

CIS-92003

When downgrading from TDV version 8.3 to a lower version, certain adapters need to be manually un-deployed. Execute these commands to manually un-deploy the 8.3 adapters, before performing the downgrade/rollback steps:

**Windows:**

```
TDV_INSTALL_DIR>bin\server_util.bat -server localhost -port 9400 -user
admin -password admin1 -domain composite -undeploy -name Splunk -version 1
-verbose
Listening for transport dt_socket at address: 8005
Success
```

```
TDV_INSTALL_DIR>bin\server_util.bat -server localhost -port 9400 -user
admin -password admin1 -domain composite -undeploy -name MarkLogic -version
1 -verbose
Listening for transport dt_socket at address: 8005
Success
```

```
TDV_INSTALL_DIR>bin\server_util.bat -server localhost -port 9400 -user
admin -password admin1 -domain composite -undeploy -name TibcoStreaming
-version 1 -verbose
Listening for transport dt_socket at address: 8005
CRLF expected at end of chunk
```

```
TDV_INSTALL_DIR>bin\server_util.bat -server localhost -port 9400 -user
admin -password admin1 -domain composite -undeploy -name CosmosDB -version
1 -verbose
Listening for transport dt_socket at address: 8005
Success
```

**Linux/AIX:**

```
bash-4.2$ bin/server_util.sh -server localhost -port 8400 -user admin
-password admin1 -domain composite -undeploy -name Splunk -version 1
Listening for transport dt_socket at address: 8005
Success
```

```
bash-4.2$ bin/server_util.sh -server localhost -port 8400 -user admin
-password admin1 -domain composite -undeploy -name CosmosDB -version 1
Listening for transport dt_socket at address: 8005
Success
```

```
bash-4.2$ bin/server_util.sh -server localhost -port 8400 -user admin
-password admin1 -domain composite -undeploy -name MarkLogic -version 1
Listening for transport dt_socket at address: 8005
Success
```

```
bash-4.2$ bin/server_util.sh -server localhost -port 8400 -user admin
-password admin1 -domain composite -undeploy -name TibcoStreaming -version 1
Listening for transport dt_socket at address: 8005
Success
```

8.4 Known Issues	Description
CIS-92186	Cannot run driverConfig with -installDriver and -configDsn at the same time. Must run two separately for each option.
CIS-92261/CIS-91624	When downgrading to an older version of TDV, any adapter created using newer versions of adapters may be visible, but will not be functional. This can also sometimes apply to adapter types that are visible in the datasource creation dialog. This is an issue in Linux/AIX platforms only.
CIS-92386	When a car file is imported with VCS connection and roots, you need to detach and reattach the VCS roots before performing any VCS operation on it.
CIS-92451	When a car file is imported into Studio with VCS roots and connections, the existing resources in Studio that were not imported may show in TDV as checked-in. In this case, user will have to detach and reattach using CIS as baseline to push resources to repository or Pull from remote repository to overwrite resources in studio.
CIS-92593	When a VCS connection is created and then deleted, you may notice that creating another connection and saving it with the same name may cause the connection to revert back to the previous vcs user credentials. This is a known issue. The workaround is to create a VCS connection with a different name.
CIS-92637	If a domain was added when a node is down, restarting the node does not sync domains from other nodes of the Cluster. When this happens, removing the node from cluster and rejoining the cluster will sync all domains in the joining node.
CIS-92933	When you set the Studio configuration option "Cursor Fetch Limit" to over 4197 rows, there is a de-serialization error in Studio while saving the results to a .csv file
CIS-93260	At TDV Server startup, you may see an error such as "Cannot register URI http://www.w3.org/2007/05/xmldsig-more#ripemd160-rsa-MGF1 to class" in the server log. The error does not impact TDV functionality so it may be safely ignored.
CIS-93339	TDV does not support Bitbucket variant of Git Version Control System.
CIS-93868/CIS-93950	After a memory setting change, contents in the Manager's Server Overview tab in TDV Studio does not get updated after restarting TDV Server.  The workaround is to restart Studio or "Switch User" instead of re-authenticating.

8.4 Known Issues	Description
CIS-94217	You may notice performance issues when a column mask rule of rule type 'partial-string mask' or 'custom function' is configured for a child entity in an OData call.
CIS-94220	Introspection of stored procedures not supported in MYSQL Datasource adapter.
CIS-94222	You may encounter issues while using ODBC driver connection with TDV datasource which is using pass-thru authentication.
CIS-94240	When a REST data source operation is executed, the response payload is not streaming and may cause Out of Memory.
CIS-94274	There may be query optimization issues on data sources that do not support derived tables (for example, Informix).
CIS-94510	Setting the "Include Rows " option on the JOIN properties corrupts the join condition, if multiple joins are specified
CIS-94728	The Format Query button in the TDV Studio's SQL Script window does not format the query as expected and deletes the SQL definition.
CIS-94960	<p>TDV Web Manager relied on Adobe Flash-based libraries for rendering graphs for I/O, Memory, and Storage Logs. With the removal of support for Adobe Flash across all browsers, this feature is no longer usable within Web Manager.</p> <p>To workaround this, the graphs are available in Studio's Manager.</p>
CIS-95059	While executing queries, when you have a nested SELECT query containing a UNION with an ORDER BY clause containing a function, you may encounter a Null Pointer Exception.
CIS-95293	<p>Altering a data view /script with empty definition does not unset the sql/script attribute.</p> <ul style="list-style-type: none"> <li>• To unset the sql of an empty dataview, use "--".</li> <li>• To unset the script definition, use the following as the script definition: <pre>PROCEDURE script1() BEGIN END</pre> </li> </ul>



## TDV Web UI 8.4 Known Issues

Following are the known issues in this release of TDV Web UI

8.4 Known Issues	Description
CIS-72726	Use of “?” and “&” characters within a user name is not supported in TDV Web UI.
CIS-92979	In TDV Web UI, you will not be able to delete a node when it is selected in the canvas. To delete the node, click on the canvas outside the node, hover the mouse over the node that you wish to delete and then click on the delete icon that appears on the node in the top right corner.
CIS-93537	When the data types of the columns do not exactly match, you will not be able to assign them in the Union/Intersect/Except operators.
CIS-94210	A user with ascii characters in the user name, cannot copy/rename a flow.
CIS-94413	If a flow is impacted for some reason (for example, due to an invalid filter operator) then such flows do not sometimes show the impact message.
CIS-94928	When you are previewing data for flow in the Data Catalog screen, you may notice that the horizontal scroll bar does not scroll as expected to show all the columns. The workaround is to use arrow keys instead.
CIS-95001	TDV Web UI does not re-introspect the datasets used in the flow. Hence, if the dataset changes in TDV Studio (for example, an index is added), then you will have to remove the dataset in the Flow Editor and add it back.
CIS-95053	A published flow can be copied to your private folder. However, this does not automatically copy the published flow to your private publish folder. In order to copy the flow to your publish folder, click on the Publish node and click the “Fix it” button that appears in the configuration window below the canvas.
CIS-95122	In TDV Web UI, when you search for a specific dataset in the “Select a Dataset” window in the Flow Editor, that search string propagates to the Directory Browser when you use the back arrow that is displayed before the flow name in the Flow Editor.
CIS-95159	You may notice errors in the server log file, when you try to rename a published flow in TDV Web UI. It is safe to ignore these errors.

8.4 Known Issues	Description
CIS-95172	When there is a published resource that links to a resource owned by another user and if that other resource is deleted, the link will be broken. When that happens, the user cannot delete the published link in the Web UI. They will need to use Studio to do that.
CIS-95215	In TDV Web UI, when you clear all the nodes of a published flow (including the publish node) using the Clear button from the Operations palette, the empty flow still shows up in the Publish folder of the Data Catalog. The workaround is to add a Dataset node and a Publish node and then manually remove the nodes instead of using the Clear button.
CIS-95219	In TDV Web UI, the Data Catalog page displays the Endpoints for published resources, when you select the resource. However, when you move the selection from a published resource to any other resource (a folder, database, non-published datasource, etc), the previous End points continues to display, even though the currently selected resource does not have any End points.
CIS-95230	Within the Filter operator, the IN clause requires manually adding parentheses surrounding the set of values. Without the parentheses, you will encounter an "Internal Server Error".
CIS-95330	Once you add a Publish node to the flow, a link to the flow is created in your "Published" folder. If you use the "Change History" option and choose an earlier state of the flow (before attaching the publish node), the flow will not automatically be removed from the "Published" folder. The workaround is that you will have to edit the flow, add the Publish node and then remove it manually, without using the "Change History" option.

## Issues Closed in Earlier Releases

This section contains:

- [TDV and Business Directory 8.3 Fixed Issues, page 27](#)
- [TDV and Business Directory 8.2 Fixed Issues, page 32](#)
- [TDV and Business Directory 8.1 Fixed Issues, page 34](#)
- [TDV and Business Directory 8.0 Fixed Issues, page 36](#)

### TDV and Business Directory 8.3 Fixed Issues

This section lists the issues fixed in this release

8.3 Fixed Issues	Description
CIS-46619	Support for REGEXP_* functions for Oracle adapter.
CIS-48053	Support for MarkLogic as datasource is added. Note: Caching and Dataship not supported.
CIS-53745	Support for CAST the function for a TIMESTAMP field for the DB2 datasource.
CIS-57425	Fix to push functions with HASH join.
CIS-57788	Support added for all event types for System Event triggers.
CIS-59316	Support added for TOP function to be a push down function.
CIS-62068	Support for Open API/Swagger is added for published web services.
CIS-66048	Support for query hints is added for Vertica.
CIS-72472	Support for TLS V1.2 is added in the TDV ADO.Net Driver.
CIS-73051	Fix to preserve the ORDER BY clause in the sub queries.
CIS-73552	Support for ability to set FETCH_SIZE in the supported versions of Oracle thin and OCI drivers.
CIS-86414	Fix for the Microsoft DynamicsCRM adapter connection issues.

8.3 Fixed Issues	Description
CIS-87414	Fix for the result signature of two procedures having same element names and different types to not be overwritten when TDV is restarted,
CIS-87875	Documentation enhancement to provide description for fields in the Events log file.
CIS-87891	Fix for using column based security when HTTP configuration is disabled in TDV.
CIS-87937	Support for CHARINDEX function for SQL Server 2012.
CIS-88094	Fix for the additional NULL rows inserted during XSLT transformations. <b>Note:</b> Customers should re-save the XSLT transformations to see this fix in effect.
CIS-88105	Support for Big5 character set for Microsoft Excel data source.
CIS-88132	Support for HASHMD4 function to the SQL Server capabilities.
CIS-88141	Fix for the Session Null error on some procedures/views after re-introspecting a data source.
CIS-88214	Fix for the REST data source to successfully access an https url when TDV uses proxy.
CIS-88214	Fix for errors seen in REST datasources accessing an https url while TDV uses a proxy.
CIS-88618	Fix for CBS rule type functions to be pushed down by MPP Engine.
CIS-88719	Fix for pushing the CASE statement with or without JOIN between data sources.
CIS-88724	Fix for incorrect display of data in a VARCHAR field of Excel sheet.
CIS-88777	Fix for date field formatting for excel non-ODBC data source.
CIS-88842	Documentation fix to indicate write access requirement at the directory level when running command line utilities.
CIS-88992	New System events added for User Login and Table Create.
CIS-89124	Fix for ADO.Net driver compatibility issues with Net Core application.

8.3 Fixed Issues	Description
CIS-89285	Fix for some performance improvements when using many decimal and time stamp values.
CIS-89286	Fix for allowing special characters when Exporting/Importing a car file.
CIS-89437	Fix for CPU utilization for an Oracle cancel thread.
CIS-89453	Documentation fix for the environmental variable "CIS_SERVER_VM_ARGS".
CIS-89454	Query engine fixes with respect to the Impala data source.
CIS-89508	Fix for Case sensitivity and ignore trailing spaces setting incompatibility when upgrading from 7.0.7 to 8.x
CIS-89536	Fix to attach TDV folders successfully to VCS.
CIS-89590	Fix for "Single Select" option which is disabled when upgrading from 7.0.6 to 8.2.
CIS-89660	Addition to Google BigQuery capabilities to push a CAST that contains a CASE statement,.
CIS-89675	Fix for the Google Bigquery adapter's Join query causing errors.
CIS-89813	Fix for performance issues encountered while running TDV SQL queries using JDBC driver with encrypt option.
CIS-89853	Fix for the encryption/decryption error encountered when connecting to a datasource using Kerberos passthrough.
CIS-89887	Fix for unexpected shutdown of Excel when the option "Return Data to Microsoft Excel" is selected.
CIS-89897	Fix to the Amazon Redshift adapter to push WITH clause down to the datasource.
CIS-89903	Update to the request status to indicate Closure message from the server.
CIS-89946	Fix for successful import of web services from TDV versions 7.x to 8.x
CIS-89998	Fix for integer column introspection for SharePoint 2013 driver.
CIS-90030	Fix to the designProcedureByExample API to execute successfully against procedures without OUT parameters.

8.3 Fixed Issues	Description
CIS-90077	Fix for the PowerBI error “KRB_Error Response. Error Code: 0x34 (KRB_ERR_REP_TOO_BIG). Too much data”.
CIS-90081	Fix for incorrect handling of virtual columns when using the DISABLE_SELECT_REWRITER option in a query.
CIS-90088	Fix for successful execution of code with special characters on a node in cluster.
CIS-90115	Snowflake adapter fix for retrieving data from a TIMESTAMP field.
CIS-90122	Fix for passing mandatory parameters to SAP OData service.
CIS-90135	Fix for memory issues when using binary CONCAT operator.
CIS-90144	Fix for mixed case column names in a Cache DDL.
CIS-90166	Fix for connection failure message from the ODBC DriverConfig.
CIS-90188	Fix for incorrect alias in the FETCH node SQL.
CIS-90193	Fix for duplicate alias names.
CIS-90226	Fix to not import the any of the connection information (including the httpLocation) of a datasource, if the information was not included when exporting it through Studio or the pkg_export command line utility.
CIS-90288	Fix for the cachekey overflow calculation resulting in negative cachekey values.
CIS-90362	Fix for the Snowflake adapter SQL parser.
CIS-90575	There is a new server config option “Require Grant Privilege” to control whether or not the GRANT privilege is required in order to copy/export sensitive information, such as passwords. Note that the default value for this option is FALSE.
CIS-90580	Fix for encrypting passwords with length greater than 15 characters.
CIS-90610	Fix to the MPP Query Engine Null pointer exception when querying against kerberised DB2 datasources.
CIS-90634	Fix for the ClassCastException after TDV upgrade from 7.0.6 to 8.2.
CIS-90846	Fix to update SVN repository appropriately when checking in a deleted folder.

8.3 Fixed Issues	Description
CIS-90935	Fix to the ODBC driver to load reports in Visual Studio/Microsoft Reporting Server.
CIS-90959	Fix for the “cursor closed error” for queries using WITH clause.
CIS-90980	Fix for the Amazon Redshift adapter for the TOP keyword support.
CIS-91040	Fix to the Power BI string and timestamp filters when loading data from TDV using a csv data source.
CIS-91258	Fix to Power BI to retain null value when loading data from TDV.
CIS-91384	Fix for the Google BigQuery Adapter timeout issues.
CIS-91391	Fix for connection to Sharepoint Excel services when REST API is disabled.
CIS-91426	Fix for blank cells resulting in wrong column datatype introspected in the POI data source.
CIS-91508	Fix for the calculation of execution times.
CIS-91596	Fix for connectivity error between TDV and JMS.
CIS-91650	Fix for the display of RBS icon on a resource to a user with read privilege..
CIS-91692	Fix for generating access token when using Microsoft Graph API.
CIS-91746	Fix for the Elasticsearch adapter - error during query execution.
CIS-91758	Fix to the Sharepoint ExcelServices adapter for the error “index 1 out of bounds for length 1”.
CIS-91796	Fix for queries with HAVING clause to be pushed down successfully to Teradata datasource.
CIS-91799	Fix to the ODBC Driver causing garbled Japanese characters while connecting to TDV.
CIS-91842	Fix for exporting individual published operation.
CIS-91845	Fix to the updateResourcePrivileges API to restrict altering privileges of system resources.
CIS-91852	Fix for the deadlock issue when running a published view containing REST calls and Oracle queries in UNIONs

8.3 Fixed Issues	Description
CIS-91852	Fix for the intermittent deadlock issue when running a published view using a ODBC client.
CIS-91853	Fix for cleaning up the security privileges table by Repository GC and auto vacuum.
CIS-91890	Fix for exporting individual published operation is not available in TDV 8.2
CIS-92257	Fix for failure in execution of a query with a CASE statement with aggregate function.

## TDV and Business Directory 8.2 Fixed Issues

This section lists the issues fixed in the TDV release 8.2

8.2 Fixed Issues	Description
CIS-63791	Fix for the access control rules for JDBC/ODBC/ADO.Net EXPLAIN statements to rely on the READ privilege or the principal right of the resource.
CIS-67132	OData compliance with XML 1.1
CIS-72972	Fix for Mongo DB adapter intermittently throwing a data retrieval exception. Some performance issues are also addressed.
CIS-73172	Fix for improved system message for the server operation performServerAction.
CIS-73487	Fix for LDap domain for OpenLDap failure due to missing attributes.
CIS-73593	Fix for max() over(PARTITION BY **) function for Impala datasource to be pushed down to db for execution.
CIS-73636	Fix for API operations failure after enabling the Hook option in the server configuration.
CIS-73723	Fix for Union operator for Impala and Hive datasources to be pushed down to db for execution.
CIS-73789	Fix for ISNULL function mapping in the YAML file.



8.2 Fixed Issues	Description
CIS-73871	Fix for memory issues when committing large number of files under a folder with TFS.
CIS-73954	Fix in RBS group policy code generation to specify appropriate length for temporary VARCHAR variable.
CIS-73983	Fix for v8.x ODBC driver based DSN - clients connected to this driver will crash or issue a warning while running INSERTs/DELETEs and the application halts.
CIS-74104	Fixed typo in the MPP Engine Configuration parameter "Logging Level" description.
CIS-74109	Fix for Get Data Load performance to preview and load data for a single table using Power BI connector.
CIS-74112	Fix for Get Data Preview Load to work as expected when an unlinked published table that exists in the published database is not selected for preview.
CIS-74189	Fix for Any -> Any transform, XML document not showing child node value.
CIS-74207	Fix for Odata source connection issue when data format is set to JSON.
CIS-74272	Documentation updated with a valid example of the Connection checkout procedure.
CIS-74907	Fix for Business Directory connection to TDV server site that has Non-SSL Enabled set to False.
CIS-86096	Fix for the permanent display of Find-Replace toolbar in studio code editor.
CIS-86151	Fixed the ability to add annotations to published resources when locking is enabled.
CIS-86333	Fix for suppressing the Lock Resource dialog.
CIS-86353	Fix for the return code of the auto start scripts on linux machines.
CIS-86565	Documentation updated to clarify the path/location of the scripts to be run to verify the service files configuration.
CIS-86621	Fix for improving the query plan efficiency.
CIS-87617	Fix for ODATA adapter problem when connecting to Sharepoint: When using ODATA adapter to connect to Sharepoint, using NTLM authentication, the connection will fail due to NTLM authentication not performed properly.

8.2 Fixed Issues	Description
CIS-87779	Fix for SparkSQL Driver introspection issue of getting only partial tables into TDV.
CIS-87893	Fix for slow response from ODBC client in TDV 8.1
CIS-87942	Fix for the Power BI connector queries that have sub-selects using tables with schema or catalogue that are not defined.
CIS-88001	Fix for nested columns support in couchbase adapter.
CIS-88073	Fix for broken lineage in cluster environment.

## TDV and Business Directory 8.1 Fixed Issues

This section lists the issues fixed in the TDV release 8.1

8.1 Fixed Issues	Description
BD-4921	Fix for issues encountered when connecting to a TDV 8.0 site in Business Directory 8.0
CIS-45831	Fix to propagate the alias renaming to the dependent views.
CIS-55469	Fix to create a new username with mixed case letters
CIS-65248	Documentation fix to include the tip on using ORDER BY clause on a cached data.
CIS-69010	Fix to export excel files and sheets with a relative path.
CIS-69925	Support for DECIMAL data types in Impala 2.0+ adapters
CIS-70118	Fix to include the data type change in a view to reflect in the dependent views when change is made in the Grid panel of a view.
CIS-70831	Fix to retain the CHAR data type when selecting from a physical table.
CIS-71005	Fix to close the studio "Web Service" type session if studio is closed using "close" button (without logout)

8.1 Fixed Issues	Description
CIS-71104	Fix to the server login function to use a nonce and referrer check during the login process.
CIS-71429	Fix for the REST data source errors when upgrading from 7.0.6 to 7.0.7.
CIS-71661	Fix for setting keystore/truststore passwords in 7.0.6.00.02 after upgrading from 7.0.4.
CIS-71942	Fix for the Host header attack mitigation
CIS-72267	Fix for the issues encountered when importing CAR file from 7.0.6.00.01 to 7.0.8.00.01
CIS-72465	Fix for increase in the input character limits for the functions Print(), Log(), LogError().
CIS-72669	Fix for the authentication issues of a REST data source with OAuth2.0.
CIS-72690	Fix for the Power BI connector to display the full schemas under a catalog in the navigator tree after connecting to a TDV instance
CIS-72709	Performance improvements for TDV JDBC driver
CIS-72783	Fix to close the Cursor when WITH clause is used twice within the WITH definition.
CIS-72792	Fix for the Power BI Errors when previewing or trying to load a table in navigator page.
CIS-72793	Fix for Power BI performance issue while expanding catalog.
CIS-72908	Power BI connector improvements to better identify DSN and associated credentials.
CIS-72926	Fix for the Null pointer exception when using REST adapter.
CIS-72927	Fix to retrieve Hive/Spark tables having partition Column.
CIS-72947	Fix for the Invalid SQL pushed to Oracle when WITH used with semi-join.
CIS-72971	Fix for connection issues with SAP Hana data source.
CIS-72987	Fix for the Power BI connector data load errors when using filters.
CIS-73014	Some general fixes to the JDBC-ODBC Bridge Adapter.

8.1 Fixed Issues	Description
CIS-73153	Documentation fix for FORCE_DISK option with UNION ALL operator.
CIS-73160	Fix for 32-bit ODBC Driver to work with 32-bit Excel sheet
CIS-73230	Fix for setting the keyStore/trustStore passwords in 7.0.6.00.02 after upgrading from 7.0.4
CIS-73272	Fix for some ODBC Critical Failures on clients running against TDV 8.0
CIS-73280	Fix for the full server back up of 7.0.x to restore in 8.0 server.
CIS-73298	Fix for PowerBI RequestTimeout error.
CIS-73302	Fix to include SWAP_ORDER Hint in TDV 8 Code Generation.
CIS-73513	Fix for the OLE DB or ODBC error when loading data through the Power BI Connector.
CIS-73530	Fix to the query engine to push valid SQL to SAP Hana when case sensitivity is set to true.
CIS-73661	Fix to the Power BI connector performance when streaming result set.

## TDV and Business Directory 8.0 Fixed Issues

This section lists the issues fixed in the TDV release 8.0.

8.0 Fixed Issues	Description
BD-4774	Fix for LDAP password annotation for Business Directory to work as expected.
BD-4775	Fix for HTTP 500 and HTTP 404 errors encountered while adding site.
BD-4785	Fix for configuring LDAP in BD successfully.
BD-4810	Fix to retain Customer Property in BD after site refresh.
BD-4899	Fix in Business Directory to include extraneous databases
CIS-47403	Fix for pushing SUBSTR function when acting against a NVARCHAR column.

8.0 Fixed Issues	Description
CIS-52434	Support for MAX(~date) in Impala.
CIS-52533	Security vulnerabilities fix in Manager related to stored Cross Site scripting (XSS).
CIS-52534	TDV Manager - Support for Retrieval Of Current Password.
CIS-56786	Fix for left outer join on VARCHAR and NVARCHAR issues to generate correct results in SQL Server 2012.
CIS-58091	Fix in Studio Installer to not expect a port number.
CIS-58595	Fix for mapping of ISNULL() function to NVL for Oracle
CIS-62035	Fix for Hard-Coded Cryptographic Secrets.
CIS-62046	Fix for Deployment Manager to not send in-line SQL requests to databases.
CIS-64264	Fix for errors encountered while creating WSDL datasource.
CIS-64923	Fix to the VCS GIT adapter to set accept and set user.email.
CIS-65210	Fix to the Documentation to include RHEL 6.7 is a supported OS.
CIS-65414	Fix to be able successfully insert India rupee currency symbol value from CIS.
CIS-65722	Documentation improvement on DM Resource Mapping not sufficient
CIS-65847	Fix to the SELECT count(*) query on a review to return correct results for SAP HANA.
CIS-66077	Fix for the REST Web service Operation URL failure in TDV 7.0.5
CIS-66141	Fix for the TDV TOP command syntax.
CIS-66185	Fix for web security issues in web manager for Annotation field when adding a connector.
CIS-66246	Documentation improvement to include the purpose of the 'maxmemory' field in the metrics_requests table
CIS-66373	Fix to successfully execute queries including a table with row-based security defined.
CIS-66401	Documentation update to include example for creating/defining SAP Hana multidimensional/calculation/graphical view in CIS

8.0 Fixed Issues	Description
CIS-66481	Fix for missing Capabilities with base adapters in TDV 7.0.5
CIS-66633	Fix to include instruction to restart application when updating the ADO.NET Driver.
CIS-66704	Fix for semi-join partitioning issues when a change in maxSqlLength is made.
CIS-66738	Fix for Kerberos support across different browsers.
CIS-66911	Fix for "Disable HTTP" configuration option causing display issues in Studio/VCS.
CIS-67076	Fix for the display of the Config option "Cleartext Enabled" in the UI.
CIS-67092	Fix for correlated subquery aliasing issue in Oracle 11g.
CIS-67250	Fix for publishing of XML transformation as JSON to return appropriate results.
CIS-67260	Fix for JDBC update for jackcess jar version (2.1.8 or greater).
CIS-67577	Documentation fix for correction of TZCONVERTOR function.
CIS-67697	Documentation update to include syntax for CREATE/DROP/ALTER in our reference guide for the DDL interface.
CIS-67763	Fix for start/stop repo service to send out SNMP traps.
CIS-67864	Fix for removal of BD system tables under "CIS System Table".
CIS-67948	Fix for all config settings to be saved in the Configuration panel without having to individually save each setting.
CIS-68200	Fix for REST Adapter Design by Example to give appropriate results when XML contains namespaces.
CIS-68209	Fix for nested declared (virtual columns) to return appropriate results.
CIS-68768	Fix for handling case sensitive data source name in DatabaseMetadata.getCatalogs(), getSchemas(), getTables().
CIS-68831	Documentation fix to indicate file cache is advisable for demo purposes or lightweight caching of a few hundred rows.
CIS-68922	Fix for issues pertaining to executing queries from Google BigQuery.

8.0 Fixed Issues	Description
CIS-69407	Fix for including Oracle Date columns to be introspected as Date rather than Timestamp.
CIS-69515	Fix for Published Database Tree to include child objects without a need to refresh.
CIS-69632	Fix for APPROX_COUNT_DISTINCT to be a recognized function for Google BigQuery.
CIS-69721	Fix for queries with REWRITE_IN_SUBQUERIES_AS_JOINS to push successfully to underlying data source.
CIS-70543	Fix for SQL Server 2016 with kerberos authentication to be a dataship target.
CIS-71005	Fix to close the “Web Service” type session if studio is closed using the “close” button (without logout).
CIS-71264	Documentation updates for SNMP V3.
CIS-71361	Documentation updates for Licensing Information.
CIS-71411	Fix for CASE Statement issues with a row_number function.
CIS-71508	Fix for security vulnerabilities on port 9403 - JDBC SSL, ODBC SSL, and ADO.NET SSL.
CIS-71635	Fix for query failures using MS SQL Server 2008
CIS-71638	Fix for “DM” privilege at group level.
CIS-71741	Fix for utilizing the setDataSourceCredentials(), if a client logs in to TDV as 'admin'.
CIS-71805	Fix for ADO.net driver with NTLM authentication in Spotfire.
CIS-72163	Fix for REST data sources errors with request payload.
CIS-72430	Fix for query with an alias to work as expected against Excel Services 2010 adapter.

