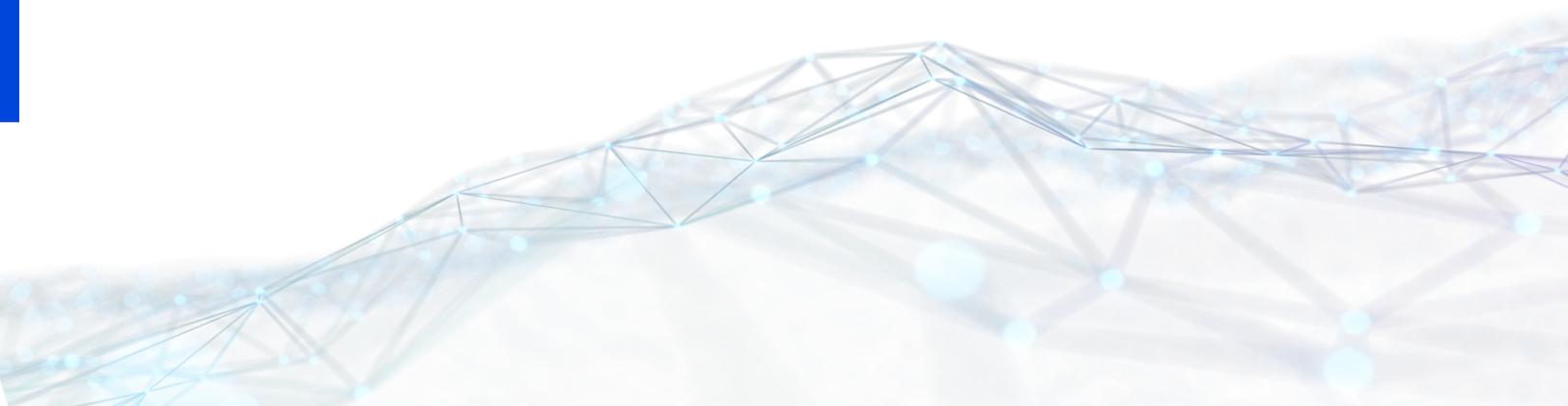




TIBCO® Data Virtualization

Release Notes

Version 8.7 | October 2023



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New in 8.7

The TIBCO® Data Virtualization (TDV) 8.7 release has three distribution types. One is for on-premises installations that utilize our platform specific installer binaries or patch archives. The second is for container and Kubernetes runtime environments that use our container distribution (i.e. Docker files and Helm charts). The container distribution can be used in private and public cloud environments (for example, Azure). The third is our AWS Marketplace offering for those that don't want to manage nor host a TDV installation. For more information on the products and components included in TDV, refer to the TDV Installation and Upgrade Guide. For more information on the products and components in Business Directory, refer to the TDV Business Directory Guide.

TDV 8.7 is a Mainstream Release. For information about the TDV LTS Support refer to [TIBCO Data Virtualization Long-Term Support \(LTS\) Releases](#).

TDV 8.7 includes features and enhancements in the following areas.

Data Source Improvements

- TDV REST adapter can now be introspected based on specifications provided in the OpenAPI metadata.
- Support has been added for Google Cloud Storage adapter as a new Cloud File System Adapter.
- Postgres adapter versions 12, 13 and 14 are now certified as supported by TDV.
- Native query support is added for Google Big Query Adapter
- EXTRACTVALUE & XML_EXTRACT functions are now supported for MySQL data source.
- DB2 tables of TYPE NICKNAME can now be introspected.
- DST based adapters now support variable pattern function matching in YAML files.
- Packages and Stored Procedures inside packages will now be included in the introspection of Oracle Data Source.
- Oracle adapter capabilities has been extended to support extra column size that is

required to support special characters.

- WITH clause is now pushed down to MySQL data source.
- You need to modify the capabilities file (apps/dlm/cis_ds_mysql/conf/mysql_5_5.mysql.capabilities) to include the following: `jdbcds.column_aliasing_in_with_clause: true`
- Also modify the file `apps/dlm/cis_ds_mysql/conf/mysql_5_5_config_defs.xml` and change the `defaultValue` to "true". This will Push down the WITH clause to the underlying data source MySQL.
- You can now create S3 data sources and connect to it using the Temporary Authentication method (Access Key ID + Secret Access Key + Session Token). All existing S3 data sources will be defaulted to the Federated Credentials/Assumed Role Name Credentials.
- Postgres adapter v10 and later now supports DATE_PART function.
- TDV Email Adapter v22 has been included to fix Japanese language specific issues.
- TO_CHAR function support has been added to the SQL Server datasource.
- An optional field Named Instance has been added when creating a SQL Server datasource. You must specify either a Named instance or port when connecting to the Data source.
- SYSDATE function support has been added to the Oracle data source.

Driver Improvements

- TDV drivers JDBC/ODBC/ADO.Net now supports OAuth Token (headless flow). A new configuration parameter `delegateOauth2flowToServer` has been added.
- This is a flag used to indicate whether the oauth2 ROPC flow delegation is used for JDBC/ODBC/ADO.net driver. set this to True to delegate OAUTH2 ROPC flow to TDV server from JDBC/ODBC/ADO.net driver and invoke a call to the oauth IDP and get token from it. set this to false to indicate not to delegate OAUTH2 ROPC flow to TDV server from JDBC/ODBC/ADO.net driver
- A new optional property has been added in Connection String of the JDBC/ODBC?ADO.Net drivers that will enable TCP-KeepAlive for the connection.. In the DSN Editor UI(ODBC) this property is located under 'connection' tab

Property Name: EnableKeepAlive
Property Type: Boolean
Default Value: false

- ADO.Net logger performance has been improved.

TDV Server Improvements

- Multiple Workload Management Rules can be defined for User Requests. A rule action is triggered when the user request satisfies a rule. All rules except the EXCEPTION can be invoked many times within the life cycle of request. The EXCEPTION rule however, terminates the request by throwing an exception that has been defined.
- To reduce the traffic in KPI Metrics, you now have the ability to filter internal and server sessions.

Web UI Enhancements

- Web UI Expression editor's visual design is now updated. It now includes IntelliSense, syntax coloring, parameter information and error information, among other features.
- Web UI Expression editor now has template support for CASE statements.
- When creating flows in the TDV Web UI, you can now select multiple datasets from the dialog and add all datasets to the flow.
- From the Web UI catalog search results, you will now be able to browse the entire parent resource. This path forward search feature will help you find similar datasets that may better match your search criteria than the ones listed in the result list.
- The Change History view of the Dataset and Dataset details will be Read-Only. You can review the Change History and restore the specific revision that you want to restore. Note the the Change History list will be valid only for the active session.

Query Engine Improvements

- TDV's DECIMAL data type now supports arbitrary values. Datasources Oracle,

Postgres, Teradata, Greenplum (fork of Postgres) support this arbitrary NUMERIC datatype.

- Support has been added for the DDL statement CREATE OR REPLACE TABLE DDL
- Support has been added for pre-aggregation over UNION ALL when the aggregate function is a composite function.
- Support has been added to the function TO_NCHAR.
- Numeric Division is now supported when performing integer divisions. To enable/disable this, use the configuration option `/server/sql/language/numericDivision`.
- New SELECT option has been included NO_DATA_CACHE_IMMEDIATE. This disables caching for immediate views only. It does not affect sub views.

OAuth Enhancements

- TDV drivers JDBC/ODBC/ADO.Net now supports OAuth Token (headless flow). A new configuration parameter `delegateOauth2flowToServer` has been added.
- This is a flag used to indicate whether the oauth2 ROPC flow delegation is used for JDBC/ODBC/ADO.net driver. set this to True to delegate OAUTH2 ROPC flow to TDV server from JDBC/ODBC/ADO.net driver and invoke a call to the oauth IDP and get token from it. set this to false to indicate not to delegate OAUTH2 ROPC flow to TDV server from JDBC/ODBC/ADO.net driver
- TDV now supports the field Scope when creating an OAuth domain. Microsoft Azure requires to have "application ID URI" in front of the scope values (ie. prefix `api://...`). This will enable TDV to receive a valid access token that has a valid issuer value.

Studio Enhancements

- TDV Studio Editor has been replaced. Some of the notable features are:
 - Occurrence bar is added to the right edge of the editor which shows the current matches in the Find/Replace context
 - Bookmarks are added. These bookmarks are not retained when the content is

reloaded. They are useful in the current editing session only.

- Context menu is added for the most commonly used editor commands (You can activate the context menu by Right mouse click).
 - Line numbers can be turned on and off from the user preference. Line number color can be customized as well.
 - You can set options such as Auto-complete, Line number, Line wrap, Auto-Capitalization, Syntax Coloring, Fonts etc. from the Editor Preferences window. Access the Editor Preferences by choosing Edit->Options from the TDV Studio menu and choosing the Editor tab.
 - The Find/Replace interface looks slightly different from the old editor, but most of the functions are retained.
 - Status bar now includes the read-only indicator, line-wrap toggle, and the line and character count tool-tip over the cursor location indicator. The PC/UNIX/Mac line ending option has been removed.
 - User preferences and keyboard shortcut quick help have been updated accordingly
 - Syntax Highlighting has been retained from the previous editor and most of the functions are the same. Currently XQuery editor comments are not highlighted.
 - Manual code folding is removed, but auto XML code folding is added.
 - Resource paths will not be auto-completed in the editor. Drag and drop the resources to your editor pane to display the entire path of the resources.
 - A list of new keyboard shortcuts are available by accessing the menu item Help -> Editor Quick Help.
- The visual presentation of the information displayed in the Execution Query Plan in TDV Studio has been improved for better readability.

Installing TDV, Studio, BD and Drivers

Refer to the Installation Guide, section *Installing TDV, Studio, and Drivers* for instructions on using the installer to install TDV 8.7 Server, Studio and Drivers. Refer to the Business Directory Guide, section *Install Business Directory* for instructions on Installing Business Directory.

Note: Make sure your Windows OS has all the necessary updates installed, so that TDV installation can run smoothly. TDV installer and patch are packaged with VC++ redistributables which are needed for the postgres and svn connections to run smoothly.

- TDV installs vcredist 2015-2019 that is required for postgres. If user already has 2015-2019 or 2015-2022 TDV bypasses installation of vcredist and uses what is in the users machine to initialize postgres.
- TDV installer also installs Microsoft Visual VC++ version 2013. This is required for svn connections to be successful. When using a patch, this version of VC++ (2013) needs to be manually installed. Execute the file vcredist_x64.exe which can be found in the directory <TDV_install_dir>\bin. For more details about applying Service Pack refer to the next section [Upgrade Instructions_8_7.htm](#)

Upgrade Instructions

Upgrading TDV Server, Studio and Business Directory to Mainstream Release

Important bug fixes and additional functionality are added to TDV with each Mainstream Release.

Mainstream Releases typically involve careful ordering of procedural steps to make sure appropriate scripts are generated and available, and backup files saved.

Notes:

- Customers using advanced data source adapters that require OAuth authentication, need to first run TDV as a stand-alone server (no Monitor Daemon), set up OAuth once, and then run TDV with the Monitor Daemon.
- Sometimes when running Manager after a service pack install an error message pops up (Unable to finish loading...). You can safely ignore this message, close, and reopen Manager.

To Upgrade to a Mainstream Release

1. Optionally, perform a full TDV and Business Directory backup. For details about backup export, see the *TDV Administration Guide* or the *Business Directory Guide*.
2. If installing on Windows, be sure to use Run as Administrator.
3. For Windows, make sure to close any open windows to the repository/jdk folder.
4. Stop all TDV processes, instances, and databases.
5. Download the following TDV 8.7.0 zip files from [TIBCO edelivery](#) to the TDV installation directories:
 - TIB_tdv_server_8.7.0_all.zip (download the server zip file to your server

installation folder.)

- TIB_tdv_bd_8.7.0_all.zip (download the BD server zip file to your BD server installation folder.)
- TIB_tdv_studio_8.7.0_all.zip (download the studio zip file to your studio installation folder.)

6. Unzip the files.

When asked whether to replace the existing files, reply Yes.

If you are not asked whether to replace files, the service pack is being extracted to some directory other than <TDV_INSTALL_DIR>. The service pack must be extracted to the appropriate installation directory, and must overwrite files in that directory.

7. Run the following scripts to upgrade your product.

Note: When running on a Linux/AIX environment, you will have to grant execute permission on the upgrade scripts. Run the following command to do this:

```
chmod 755 *.sh
```

8. Enter the repo and cache passwords when prompted.

Product	Directory	Script
TDV Studio	bin	studio_upgrade_patch.bat
TDV Server	bin	cis_upgrade_patch.<sh bat>
TDV Business Directory	bin	bd_upgrade_patch.<sh bat>

Note: On the windows platform only, if you are upgrading from a pre-8.6 TDV Server installation to TDV Server 8.6 or higher

- You need to upgrade your TDV Studio to the same version you upgraded your TDV Server with.
- You may encounter an error in the upgrade script when installing the VC_reldist.exe. When this happens follow these manual steps:
 - i) Open a cmd.exe with "Run as Administrator".
 - ii) cd <TDV_INSTALL_DIR>.

iii) Run the following command to delete the repository directory:

```
rd /S /Q repository
```

iv) Run the following command to copy the upgrade repository directory to the appropriate location in the <TDV_INSTALL_DIR>:

```
copy install/<VERSION>/repository repository
```

v) Run the following command to manually execute the VC_reldist.exe file:

```
.\bin\VC_redist.x64.exe
```

vi) Fix any permissions issues or any issues that you might encounter while running step v).

vii) Rerun the upgrade script (cis_upgrade_patch.bat)

```
.\bin\cis_upgrade_patch.bat
```

9. (Optional) For svn connection to be successful, Microsoft Visual VC++ version 2013 is required. When using a TDV patch upgrade, this version of VC++ needs to be manually installed. Execute the file vcredist_x64.exe which can be found in the directory <TDV_install_dir>\bin.

10. (Optional) Follow this step only if you are using the default self signed TDV Server/Studio/Business Directory certificate files and you have upgraded from a TDV 8.3, TDV 8.4 TDV 8.5, TDV 8.6 installation.

Note : TDV installers provide default self signed certificates for SSL. We do not recommend using these for production TDV installations.

Now that you have upgraded your TDV Server/Business Directory/Studio to 8.7.0, the following steps will guide you on how to update your TDV self signed certs since you are using them.

1. Stop your TDV Server/Business Directory/Studio processes.

Note: you do not need to stop the Postgresql repository (TDV Server/Business Directory) nor cache (TDV Server only) processes.

2. Backup your existing TDV certificates

- TDV Server - backup files under <TDV_INSTALL_DIR>/conf/server/security/*.jks (cis_server_keystore.jks and cis_server_truststore.jks)
- TDV Business Directory - backup files under <TDV_INSTALL_DIR>/conf/server/security/*.jks (cis_server_keystore.jks and cis_server_truststore.jks)

- TDV Studio - backup files under `<TDV_INSTALL_DIR>/conf/studio/security/*.jks` (`cis_studio_keystore.jks` and `cis_studio_truststore.jks`)

3. Replace your TDV certificate files with ones from the latest TDV Server/Business Directory/Studio patch.

- TDV Server - copy `<TDV_INSTALL_DIR>/conf/server/security/installcerts/cis_server_keystore.jks` to `<TDV_INSTALL_DIR>/conf/server/security/cis_server_keystore.jks`
- TDV Business Server - copy `<TDV_INSTALL_DIR>/conf/server/security/installcerts/cis_server_keystore.jks` to `<TDV_INSTALL_DIR>/conf/server/security/cis_server_keystore.jks`
- TDV Studio - copy `<TDV_INSTALL_DIR>/conf/studio/security/installcerts/cis_studio_keystore.jks` to `<TDV_INSTALL_DIR>/conf/studio/security/cis_studio_keystore.jks`

4. Restart TDV Server/Business Directory/Studio processes.

To rollback the Mainstream Release that you just applied, refer to [Rollback](#).

Upgrading the Active Cluster to from 8.6 to 8.7

When updating Active Cluster, it is critical that clusterid remain unchanged. Changing it can adversely affect cached data.

These instructions are guidelines developed from testing with a two node Active Cluster environment.

To upgrade with scheduled system downtime

1. Determine and note the clusterid, so that it can remain unchanged.
2. Make sure that the cluster is in sync. That is, make sure both nodes are in the cluster and are functional.
3. Disable any cache refreshes on both of the nodes.
4. Configure the load balancer to stop sending traffic to node 1. Shutting down node 1 would cause in-flight requests to fail.
5. Remove node 1 from the cluster.
6. If your TDV products are running, stop them, including all processes and databases

used as repositories or caches.

7. Apply the service pack or hot fix to node1.
8. Start up node 1, and re-join the cluster.
9. Configure the load balancer to send traffic to node 1 instead of node 2.
10. Remove node 2 from the cluster.
11. If your TDV products are running, stop them including all processes and databases used as repositories or caches.
12. Apply the service pack or hot fix to node 2.
13. Startup node 2 and rejoin cluster.
14. Enable cache refreshes on both of the nodes.
15. Verify the cluster status.

Rollback

1. If working on Windows, any open windows to the repository or jdk folder must be closed.

2. Make sure that the TDV Server is stopped.

```
composite.<bat|sh> monitor stop
```

Note: To check if the Monitor daemon has stopped completely, check for the “Bye” message in cs_server.log.

3. Start the TDV Server back up without the monitor, by running the following command:

```
composite_server.<bat|sh> run
```

4. You will be unable to downgrade your TDV version directly to an 8.3.x, 8.4.x or 8.5.x version . You have to downgrade the TDV repository first to the corresponding 8.x release and then apply the upgrade patches accordingly.

To downgrade your TDV repository version to 8.3.x run the following command:

```
$ bin/server_util.bat/sh -server localhost -port 9400 -user xyz_admin -password <TDV ADMIN PASSWORD> -rollbackRepository -toVersion 8.3.0
```

To downgrade your TDV repository version to 8.4.x run the following command:

```
$ bin/server_util.bat/sh -server localhost -port 9400 -user xyz_admin -
password <TDV ADMIN PASSWORD> -rollbackRepository -toVersion 8.4.0
```

To downgrade your TDV repository version to 8.5.x run the following command:

```
$ bin/server_util.bat/sh -server localhost -port 9400 -user xyz_admin -
password <TDV ADMIN PASSWORD> -rollbackRepository -toVersion 8.5.0
```

To downgrade your TDV repository version to 8.6.x run the following command:

```
$ bin/server_util.bat/sh -server localhost -port 9400 -user xyz_admin -
password <TDV ADMIN PASSWORD> -rollbackRepository -toVersion 8.6.0
```

Refer to the section [Verifying your Repository Version](#) to verify your repository version that you have downgraded to.

5. Run the rollback script located in:

TDV Server:

```
<TDV_INSTALL_DIR>/install/rollback_TIB_tdv_server_<product
version>.<service pack number>_all.<bat|sh>
```

TDV Studio:

```
<TDV_INSTALL_DIR>/install/rollback_TIB_tdv_studio_<product
version>.<service pack number>_all.bat
```

Business Directory:

```
<TDV_INSTALL_DIR>/bd/install/rollback_TIB_tdv_bd_<product
version>.<service pack number>_all.<bat|sh>
```

6. Run the downgrade script located in:

TDV Server:

```
<TDV_INSTALL_DIR>/bin/cis_downgrade_patch.sh\bat
```

TDV Studio:

```
<TDV_INSTALL_DIR>/bin/studio_downgrade_patch.bat)
```

Business Directory:

```
<TDV_INSTALL_DIR>/bin/bd_downgrade_patch.sh\bat
```

7. Navigate to <TDV_INSTALL_DIR> and reapply the last service pack. After rollback it is necessary to apply the previous version of service pack before starting the server.
8. (Optional) Only follow this step if you updated the default self signed TDV Server/Studio/Business Directory certificate files for your previous 8.X upgrade.
Replace your existing TDV certificates with your previous backup of them.

- TDV Server - copy your backup jks files to <TDV_INSTALL_DIR>/conf/server/security/ (For example, cis_server_keystore.jks and cis_server_truststore.jks)
- TDV Business Directory - copy your backup jks files to <TDV_INSTALL_DIR>/conf/server/security/ (For example, cis_server_keystore.jks and cis_server_truststore.jks)
- TDV Studio - copy your backup jks files to <TDV_INSTALL_DIR>/conf/studio/security/ (For example, cis_studio_keystore.jks and cis_studio_truststore.jks)

9. Start the Monitor Daemon.

For TDV: `composite.<bat|sh> monitor start`

For BD: `bd.<bat|sh> monitor start`

In the server.log, verify that the version is the target version you intended.

Verifying your Repository Version

TDV 8.7 has a new repository version. Whenever you downgrade to a different repository version, it is recommended that you verify that the repository version matches to the TDV version that you have downgraded to. To do this verification, run the following command:

```
./repository/bin/psql -Uroot -hlocalhost -p9408 -d cisrepo -c
"select * from cisrepo.metadata_version"
```

The following table lists the TDV/BD versions and the corresponding repository versions.

Release Version	TDV Server	BD
8.3	32	30
8.4	33	30
8.5	34	30
8.6	34	30
8.7	35	30

TDV and Business Directory 8.7 Fixed Issues

The following issues are fixed in this Service Pack of TIBCO® Data Virtualization.

Key	Summary
CIS-54055	DB2 tables of TYPE NICKNAME can now be introspected.
CIS-72734	After a drop & re-create of a TDV repository schema, the admin password does not get reset to the most recent password. This has been fixed.
CIS-73006	TDV's DECIMAL data type now supports arbitrary values. Datasources Oracle, Postgres, Teradata, Greenplum (fork of Postgres) support this arbitrary NUMERIC datatype.
CIS-87717	Unable to create Oracle EBS datasource during the Oracle EBS adapter. This has been fixed.
CIS-91810	Fixed the Oracle EBS datasource introspection issues.
CIS-93995	Support has been added for TO_NCHAR function
CIS-95475	The "re-introspect previously introspected resources" checkbox was checked and disabled for Greenplum datasource and therefore indexes created were lost. This option will now be in the active state for the Greenplum data source.
CIS-96008	When setting up a data source using the "Composite" adapter, Pass-through works only with the domain entered in the data source when it was first created. In all other domains it fails with an error "Unable to connect to pass-through credential data source". This has been fixed.
CIS-96599	Fixed issues in re-introspection of cache tables after they were created.
CIS-96669	Fixed XML/SQL encoding and decoding issue when importing a car file from a version control repository (VCS) into TDV server.

(Continued)

Key	Summary
CIS-96849	Keystore attached to soap datasource got corrupted intermittently. This has been fixed.
CIS-98139	When connecting to a SOAP data source, use the alias specified in the Advanced > Certificates section if it exists to allow SSL connections.
CIS-98286	REST datasource now supports content type "application/x-www-form-urlencoded" and grant_type "password".
CIS-98308	When connecting to Google contacts adapter, an "Invalid Table" exception was displayed. This has been fixed.
CIS-98744	When a GIT PUSH was executed, the GIT LOG displayed that it was ahead of origin by 1 commit, causing unexpected behavior. This has been fixed.
CIS-98751	When creating a CJP datasource , the URL generated by clicking on Browse and choosing a path containing space characters must be edited to change all "%20" characters to " " (space characters) before creating the datasource.
CIS-98912	NLS datatype mismatch encountered when the view had an attached RBS policy. This has been fixed.
CIS-99036	TDV Oracle adapter will now handle special character column size scenarios.
CIS-99146	Support for Connection KeepAlive functionality has been included to the JDBC driver.
CIS-99342	VCS can not be enabled in TDV 8.5 or higher if there has been an in-place upgrade of just the TDV Sever from TDV 8.x to TDV 8.5.0. On the windows platform only, if you are upgrading from a pre-8.5 TDV Server installation to TDV Server 8.5 or higher, you need to upgrade your TDV Studio to the same version you upgraded your TDV Server with.
CIS-99810	CREATE table failed on Amazon Redshift data source due to Double precision column type. This has been fixed.

(Continued)

Key	Summary
CIS-100037	Performance improvements have been done to the Query Engine Parser configuration.
CIS-100158	TDV SAP adapter now assumes non-deterministic ordering of RFC_READ_TABLE data. This fixes inconsistencies in the query execution result set.
CIS-100170	Fixed run_tdv_container.sh issue where the wrong network was used to start the container. Now we start the tdv container with the tdv-bridge network and then connect to the tdv-bridge-internal. If you override the network name, then accordingly we will use that first then connect to {new network name} - internal.
CIS-100609	Using a CosmosDB TDV adapter, flattening of a sub array within the JSON provided, was not working as expected. This has been fixed in the new CosmosDB adapter.
CIS-100669	Active Directory adapter has been updated to version 21.0.8133.0.
CIS-100674	When API call cbsGetPolicy was run, it returned an error "value may not be null". This has been fixed.
CIS-100675	There was a Memory leak noticed in TDV Studio when moving the columns up and down in the Grid tab of a view. This has been fixed.
CIS-100703	Nodes drop off the cluster as a result of inefficiencies with LEFT PARENTHESIS causing an infinite loop in PreparedParser. This has been fixed.
CIS-100731	EXTRACTVALUE and XML_EXTRACT functions are now supported for MySQL data source.
CIS-100736	Studio's sql editor's "Save To File" option saved incorrect results in the file. This has been fixed.
CIS-100779	When loading an Informix data source into TDV, in which tables contained an INT8 data type column, TDV remapped this data type to LONG. This has been fixed.

(Continued)

Key	Summary
CIS-100797/CIS-101947	JDBC ODBC bridge adapter throws an exception " column label not found"" when connecting to/Introspecting PostgreSQL datasource. This has been fixed.
CIS-100808	Fixed hanging issue in queries containing deeply nested WITH clauses.
CIS-100811	Fixed issue where cancelling of a query request can take abnormally long.
CIS-100812	Deployment Manager threw an exception when DEBUG was enabled and user.dir is not set. This has been fixed.
CIS-100817	When running a request to Google Spread Sheets, you may encounter the exception "User Rate Limit Exceeded. Rate of requests for user exceed configured project quota.". This has been fixed in GoogleSheets adapter version v21.0.8137.0 and later.
CIS-100864	After creating an LDAP domain of type Other, the Edit Domain panel showed "Active Directory". This has been fixed.
CIS-100886	WITH clause is not being pushed down to MySQL in TDV. This has been fixed. You need to modify the capabilities file (apps/dlm/cis_ds_mysql/conf/mysql_5_5.mysql.capabilities) to include the following: jdbcds.column_aliasing_in_with_clause: true Also modify the file apps/dlm/cis_ds_mysql/conf/mysql_5_5_config_defs.xml and change the defaultValue to "true". This will Push down the WITH clause to the underlying data source MySQL.
CIS-100999	Division between two integers resulted in an INTEGER. This has been fixed. The following configuration setting has been added. Administration -> Configurator -> Server -> SQL Engine -> SQL Language -> Numeric Division. Default value is False.
CIS-101029	Fixed use case involving non standard identifiers belonging to a WITH clause. Identifiers normally follow the following regular expression a-zA-Z0-9_#\$
CIS-101031	The configuration file wrapper.conf is no longer available in TDV. The size of the monitor.out file is now controlled by the log4j.properties file that is

(Continued)

Key	Summary
	available in the locations: <TDV_Install_Dir>/conf/monitor/ and <TDV_Install_Dir>/bd/conf/monitor/
CIS-101094	When a Principal Bundle is deployed, the "all" group was not replicated to the Target. This caused users to lose privileges on resources located under "/services". This issue has been fixed.
CIS-101095	"Client Warning" option has been disabled for the "Request Lifetime Limit" rule in Workload Management as it is not relevant.
CIS-101170	When executing queries with nested WITH clauses, the following error was encountered: The request has been closed. No operations can be performed using it".
CIS-101201	Cassandra adapter has been updated to version 21.0.8160.
CIS-101227	When using the DATE_TRUNC function in TDV against Oracle, it failed with the below error: Cause: ORA-01821: date format not recognized
CIS-101229	Web Manager unable to change the language to japanese even if the browser and localisation is set to Japan. This has been fixed.
CIS-101237	Exporting a Full Server Backup failed with an decryption error: This has been fixed.
CIS-101244	Amazon Redshift adapter has been updated to version 21.0.8180.
CIS-101317	Executing queries with WITH clause failed intermittently with cursor closed error.
CIS-101323	Fixed the driver link in the Informix Adapter Guide.
CIS-101352	Fixed VCS issue with commit folder names having umlaut characters.
CIS-101440	The AWS GovCloud endpoints were not listed in the 'End Point Region' field of

(Continued)

Key	Summary
	the data source. This has been fixed.
CIS-101456	<p>TDV installs vcredist 2015-2019 that is required for postgres, if user already has it installed, it uses it to initialize postgres. An error occurs if user has 2015-2022 vcrdist installed and TDV tries to install 2015-2019. This has been fixed. TDV now checks if user has 2015-2019 or 2015-2022 and bypasses installation of vcredist and uses what is in the users machine to initialize postgres.</p> <p>When applying a patch, you must make sure that vcredist 2015-2022 is uninstalled before applying patch, otherwise there will be an error.</p>
CIS-101486	"Client ID" field is missing for Azure domain in TDV 8.6. This has been fixed.
CIS-101546	Upgrading from TDV 8.3 to 8.5.0 failed with CREATE INDEX error "string too long". This has been fixed.
CIS-101674	Password could not be updated for an existing Azure Domain. This has been fixed.
CIS-101750	ADO.Net logger performance has been improved.
CIS-101799	Introspecting for resources using Snowflake adapter skipped the Stored Procedures. This has been fixed/
CIS-101816	TDV now supports PostgreSQL Adapter versions 12, 13 and 14.
CIS-101827	<p>An error was encountered connecting to Salesforce.com adapter in 8.6 - Cause: org/apache/axis/AxisFault</p> <p>This has been fixed.</p>
CIS-101858	DOC Update: The list of Supported Add-on adapters in the Installation guide has been updated to not list the Active Cluster.
CIS-101879	Unable to introspect SOAP data source using the default REST TDV connector. This has been fixed.

(Continued)

Key	Summary
CIS-101900	TDV Postgres Adapter version 10 and up now supports DATE_PART() function.
CIS-101928	Adapter properties gets printed in the log file as SET statements. This has been fixed. These unnecessary properties will not be displayed anymore in the log file if not explicitly set by the user in the adapter -> advanced tab -> "JDBC connection properties".
CIS-102127/CIS-102262	Composite group User cannot 'Load Data' in Business Directory. This has been fixed.
CIS-102267	TDV REST Adapter now supports introspection of OpenAPI documentation.
CIS-102343	When a Double-Byte character (for example, a Japanese character) is contained in a table column name, it was replaced by an underscore while creating the cache table in the DDL script. This has been fixed to allow such characters.
CIS-102388	401 Unauthorized error encountered when accessing an Azure Domain in the Web Manager on the Row-Based Security page when the user name contains '@' character. This has been fixed.
CIS-102421	When connecting to TDV ADO.NET driver 8.6.1 with NTLM authentication, it failed with an exception "Session is invalid". This has been fixed.
CIS-102441	When trying to get an Access Token using the Refresh Token using TDV REST adapter, it failed with the below error: OAuth flow failed, no parameter "access_token" found in response. This has been fixed.
CIS-102458/CIS-102580	Memory utilization issue observed with CacheFramework ASAssets utilities. This has been fixed.
CIS-102471	Fixed an internal defect that prevents using cache in Vertica data source.
CIS-102478	Email Adapter v22 has been included to fix Japanese language specific issues.

(Continued)

Key	Summary
CIS-102482	After setting the memory limit on the workload management to a certain number the first time (Example: 25%), even after updating the percentage to a different number (Example: 70%) on the workload management page, the query is still being limited at the previous set percentage (Example: 25%). This is because the previous value is still cached and is limiting the query execution. This issue has been fixed.
CIS-102488/CIS-102659	Updated docker and docker_k8s images to use updated Eclipse Temurin JDK distribution.
CIS-102520	When introspecting a file-based data source using .xls files, new files were not detected when they were added to the same directory as the original one. This has been fixed.
CIS-102558	After publishing a web REST API using the POST method, the binding location is set as "Query" in the TDV generated swagger content, even though the input variables have been bound to "ENTITY". This is now fixed.
CIS-102600	When TDV Studio language is set to Japanese, the arguments displayed in the CAST function dialog was incorrect. This has been fixed.
CIS-102619	TDV now supports Google Cloud Storage Adapter as a Cloud File System Adapter.
CIS-102620	<p>The existing customers could experience OAuth login issue on some TDV apps (Studio, Manager, WebUI) with an unknown error. The TDV server would have returned 413 code response for the login attempt. If that's the case, we should increase the header size in order to read the larger tokens used by an IDP like Azure. These options can be found in the Server configuration:</p> <p>Server > Web Services > Communications > HTTP > Header Buffer Size (On Server Restart)</p> <p>Server > Web Services > Communications > HTTPS > Header Buffer Size (On Server Restart)</p> <p>Once this is changed, restart the server.</p>

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Key	Summary
CIS-102635	Message body was garbled when an email containing Japanese strings in the subject and message body gets sent from a TDV trigger. This has been fixed.
CIS-102654	New select option NO_DATA_CACHE_IMMEDIATE has been added to disable caching for immediate views only. It does not affect sub views.
CIS-102675	TDV now supports the field Scope when creating an OAuth domain. Microsoft Azure requires to have "application ID URI" in front of the scope values (ie. prefix api://...). This will enable TDV to receive a valid access token that has a valid issuer value.
CIS-102686	Using a SAP data source, executing the SELECT statement on a table failed when using IS NOT NULL in a WHERE clause. This has been fixed.
CIS-102689	DOC Update: Erroneous date handling content has been updated for the SAP Adapter.
CIS-102732	TDV now supports Splunk adapter version 22.0.8327.0.
CIS-102735	In certain circumstances, the logs may be flooded with these error messages. This has been fixed. ERROR [DBChannel-37] 2022-10-24 11:02:38.702 -0500 IsNumberFunction - java.lang.Exception: null at com.compositesw.cdms.function.conditional.IsNumericFunction.compute (IsNumericFunction.java:31) [csserver-080502002.jar:?].
CIS-102743/CIS-103319	Setting 'Write Timeout Window' to zero can cause a deadlock when using SSL. This has been fixed.
CIS-102807	DOC Update: Connection properties section in MS Access Adapter guide was fixed.
CIS-102816	A hardcoded error message "support@compositesw.com" in MemberCache has been updated.
CIS-102841	Updated TDV ODBC windows/linux drivers to use openssl 3.0.7 for CVE-2022-

(Continued)

Key	Summary
	3786 and CVE-2022-3602.
CIS-102884	TDV SQL Server now supports the convert function TO_CHAR.
CIS-102888	TDV drivers JDBC/ODBC/ADO.Net now supports OAuth Token (headless flow). A new configuration parameter delegateOauth2flowToServer has been added.
CIS-102934	Multiple Workload Management Rules can be defined for User Requests. A rule action is triggered when the user request satisfies a rule. All rules except the EXCEPTION can be invoked many times within the life cycle of request. The EXCEPTION rule however, terminates the request by throwing an exception that has been defined.
CIS-102954	When re-introspecting multiple datasources at same time (using pkg_import.sh or schedule to re-introspect), incorrect capabilities file usage resulted in some columns to be defined as OTHER. This has been fixed.
CIS-102998	Nested procedures with PATH usage gave a null point error. This has been fixed.
CIS-103001	TDV now allows pushing UNION ALL with TEXT and NTEXT data type in MSSQL data source.
CIS-103025	When running SAP ABAP queries, the columns are returned with NULL values even though there are valid values. This has been fixed.
CIS-103211	Support has been added for new SELECT option *NO_DATA_CACHE_IMMEDIATE". Setting this option disables caching for immediate views only. It does not affect sub views.
CIS-103233	Third-party applications accessing a TDV web service receive an error "No 'Access-Control-Allow-Origin' header is present on the requested resource. This has been fixed.
CIS-103321/CIS-	MERGE INTO statement in SQL Server DB always defaults to bucket 0 in a multicache table.

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Key	Summary
103310/CIS-103803	
CIS-103423	TDV Studio when switching from a multi-display environment to a single display environment may not appear on the single monitor environment's screen. Studio may remain in off-screen coordinates. Workaround is to move the TDV Studio onto the main screen/monitor by hovering over the TDV Studio running icon on the Windows taskbar. Right click on the TDV Studio snapshot image to bring up a context-menu and select "Move". Then either hold down the right mouse and drag the mouse pointer (while holding down the right mouse button) until TDV Studio is on the main screen or tap the left, right ,up, down arrow keys until TDV Studio is on the main screen.
CIS-103452	For Encrypted data source properties consistency, it is recommended that you retype the secrets that appear String type to be EncryptedString, and save the data source properties.
CIS-103453	Executing a LISTAGG function in a query with PARTITION BY clause failed. This has been fixed.
CIS-103500	The visual presentation of the information displayed in the Execution Query Plan in TDV Studio has been improved for better readability.
CIS-103567	Web UI Expression editor now has template support for CASE statements.
CIS-103801	SQL Server table introspection failed if it contained custom data types. This has been fixed.
CIS-103803	New SELECT option NO_DATA_CACHE_IMMEDIATE has been included. This disables caching for immediate views only. It does not affect sub views.
CIS-103818	<p>TDV HSQLDB 2.2 adapter + hsqldb 2.2.9 driver jar : works for HSQLDB 2.2 up to 2.4 (not including 2.4) TDV HSQLDB 2.2 adapter + hsqldb 2.7.1 driver jar : works for HSQLDB 2.4 up to 2.7.1</p> <p>TDV 8.5+ releases currently provide hsqldb 2.2.9 driver with our HSQLDB 2.2 adapter.</p>

(Continued)

Key	Summary
	<p>Please use the hsqldb 2.7.1 (Java 11+) or higher driver jar if you want to connect to HSQLDB 2.4 or higher. Example:</p> <ol style="list-style-type: none"> 1. Download for hsqldb 2.7.1 driver : https://sourceforge.net/projects/hsqldb/files/hsqldb/hsqldb_2_7/hsqldb-2.7.1.zip/download 2. Extract: hsqldb/lib/hsqldb.jar from zip file. <p>Note: TDV requires the driver to work with Java 11 or higher (i.e. do not use hsqldb-jdk8.jar).</p> <ol style="list-style-type: none"> 3. Stop TDV Server. 4. Replace <TDV_INSTALL_DIR>/apps/dlm/cis_ds_hsqldb/lib/hsqldb-2.2.9.jar with jar from step 2. 5. Restart TDV Server.
CIS-103852	XML serialization of TDV-collected min and max character values may result in invalid XML comments. It prevents nodes from joining a cluster that has collected such stats as stats propagation fails. This has been fixed.
CIS-103890	DOC Update: Clarified the documentation support for Apache Impala 2.x as cache target.
CIS-104103	When connecting to Cloudera Impala 2.7 adapter and execute queries, unnecessary SET statements are displayed in the log. This has been fixed.
CIS-104160	<p>The cs.monitor.out file can grow unbounded until the TDV server and monitor are restarted. Certain LDAP login failures can cause the file to grow very large and fill up the drive. To avoid this issue, statements similar to this have been removed from the cs.monitor.out file.</p> <pre>DEBUG: org.springframework.ldap.pool.validation.DefaultDirContextValidator - DirContext 'javax.naming.ldap.InitialLdapContext@7cb31f1f' passed validation. javax.naming.AuthenticationException:</pre>

(Continued)

Key	Summary
	[LDAP: error code 49 - Invalid Credentials]
CIS-104175	<p>When logging into Web Manager to an OAuth2 (Auth0) domain, you may encounter an error "Authentication Error: PKIX path building failed: sun.security.provider.certpath.SunCertPathBuilderException: unable to find valid certification path to requested target"</p> <p>This happens when it cannot find right certificate from the truststore and Java's built-in one. To resolve this follow these steps:</p> <ol style="list-style-type: none"> 1. Generate the certificates bases on the "domain name" in Auth0. (You can locate this in Auth0 application setting) 2. Run this "openssl s_client -showcerts -connect <domain name:443>" 3. Copy the section of each cert and name them as ie A1.crt.....A4.crt (There should be 4 cert files) 4. Run keytool -importcert -keystore cis_server_truststore.jks -file A1.crt -alias "A1A" (you will need to run this 4 times since you have 4 files) Please note, you will be prompt for password use "changeit" and confirm the change 5. Restart the server and Login to Manager.
CIS-104182	Silent Install of TDV ADO .Net Data Provider v 22.0.8370 does not install the driver. This has been fixed.
CIS-104195	TDV ADO.Net driver login failed when the password contained semicolon in it. This has been fixed.
CIS-104220	Using a TDV REST adapter, an error is encountered while sending POST Request with a body parameter.
CIS-104415	INTERVAL capabilities has been corrected for Apache Hive 2 Datasource.
CIS-104444	Using a DROP TABLE statement in MS SQL Server cache_status/cache_tracking

(Continued)

Key	Summary
	tables threw an exception. This has been fixed.
CIS-104493	Error was encountered while configuring LDAP in TDV for Multi-byte character OU. This has been fixed.
CIS-104497/CIS-105358	DOC Update: OAuth2 documentation has been improved to include more details and examples.
CIS-104554	Support has been added for arbitrary NUMERIC type in data sources Oracle, Postgres, Greenplum, Teradata and Composite.
CIS-104584	Column annotations in TDV Tables were not carried when used in Views. This has been fixed.
CIS-104658	In TDV Azure Domain, External groups retrieval was limited to 100 records. This has been fixed and pagination is now provided.
CIS-104714	TDV ADO.Net Data provider has been upgraded.
CIS-104747	TDV Procedures to Snowflake failed with error "Cause: Bind variable '1' not set". This has been fixed and a new version of Snowflake adapter is now included.
CIS-104750	SQL Server Introspection failed with an error "com.microsoft.sqlserver.jdbc.SQLServerException: Catalog view 'fn_listextendedproperty' is not supported in this version.". This has been fixed.
CIS-104770	The upgrade process does not delete apps/dlm/cis_ds_distributed/endorsed/slf4j-log4j12-1.7.25.jar file, and causing the introspection of local storage file to fail. This file has been moved to archive and the issue is now fixed.
CIS-104793	A particular user that has no READ privileges on data sources can select data due to insufficient checks on the metadata type. Now it's fixed.

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Key	Summary
CIS-104802	Unable to save Encrypt option in ODBC DSN editor. This has been fixed.
CIS-104957	Support has been dropped for CentOS 6 in TDV Server and TDV Business Directory. Drop support for CentOS 6 in TDV Server and TDV Business Directory.
CIS-105046	CFS adapters (Amazon S3, Azure Data Lake, Local File Storage and Google Cloud Storage) do not support INSERT statements with partial column lists.
CIS-105073	For svn connection to be successful, Microsoft Visual VC++ version 2013 is required. TDV installer now installs this version of VC++. When using a TDV patch upgrade, it needs to be manually installed. Execute the file vcredist_x64.exe which can be found in the directory <TDV_install_dir>\bin.
CIS-105088	DOC Update: Documentation has been improved to include information about how to configure Github for TDV using Personal Access Tokens.
CIS-105141	When the site name in the Deployment Manager is set to any Japanese character then we see "String contains non ISO-8859-1 code point" error while testing the connection.
CIS-105207	Fixed privilege issue with custom functions
CIS-105273	Fixed function EXTRACTWEEK that was failing when week was 53
CIS-105304	Filter by users option did not work as expected from the Group Management page in the Web Manager as it worked in User Management page. This has been fixed.
CIS-105342	When a XQUERY is cancelled, child procedures were not receiving the cancel call. This has been fixed.
CIS-105391	JSON_TABLE function was not working as expected in a query using a JDBC client tool. This has been fixed.
CIS-105422	Upgraded OpenSSL 1.1.1q (AIX) and 3.0.5 (Windows+Linux) in TDV ODBC

(Continued)

Key	Summary
	drivers to 3.0.8 (Windows/Linux/AIX).
CIS-105428	The display of the options "Expiration Schedule" and "Fault Toleration Policy" overlapped in TDV Studio. This has been fixed.
CIS-105490	Domain name on the login screen of TDV Studio changed to another value automatically. This has been fixed.
CIS-105499	DOC Update: wrapper.conf file will no longer be used by TDV. Documentation is now updated to remove and replace references of this file.

Known Issues

The following issues exist in this release of TIBCO® Data Virtualization.

Key	Summary
CIS-86554	The TDV Server embeds Apache Drill to assist with the runtime for the MPP Engine. The Apache Drill console uses an older version of jQuery which has known security vulnerabilities. The Apache Drill console is not required for normal operation of TDV or its MPP capability. This console can safely be disabled by blocking access to it via OS configuration (for on-premise installations), Docker Container/Pod configuration, or Kubernetes Helm Chart. See Disabling the Drill Console for further instructions.
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-91894	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.
CIS-91913	An exception such as "Unable to retrieve result from data source '/users/composite/admin/ds_redshift' during query execution." is encountered when executing a query in Redshift data source containing WITH clause.
CIS-92186	Cannot run driverConfig with -installDriver and -configDsn at the same time. Must run two separate times for each option.
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, the user will have to detach and reattach using CIS as baseline to push resources to repository or Pull from remote repository to

(Continued)

Key	Summary
	overwrite resources in studio.
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	You might see an exception like "Cannot register URI http://www.w3.org/2007/05/xmlsig-more#ripemd160-rsa-MGF1 to class" in the server log. Its safe to ignore this message.
CIS-93339	TDV does not support Bitbucket variant of Git Version Control System.
CIS-93537	In TDV Web UI, 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-93868	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.
CIS-94210	In TDV Web UI, a user with ASCII characters in the user name, cannot copy/rename a flow.
CIS-94274	There are intermittent query optimization issues on data sources that do not support derived tables (for example, Informix).
CIS-94413	In TDV Web UI, 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-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-94768	Discrepancies are seen in node statuses in a cluster after adding/removing a node when "Copy Repository Database For Cluster Join" is set to TRUE

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Key	Summary
CIS-94928	In TDV Web UI, the horizontal scroll-bar is not working as intended in the Data Preview pane of the Data Catalog screen.
CIS-95001	TDV Web UI does not support reintrospection of datasets for possible newly created indexes. To workaround this issue, remove the dataset and add it back in the Flow editor.
CIS-95230	In TDV Web UI, an invalid IN query with a missing parenthesis is generated by the Expression Editor. To workaround this, manually add the parenthesis and fix the query.
CIS-95293	<p>When the user wants to remove the SQL or Script, a NULL cannot be specified at this time to unset it. "--" can be set as a workaround, when SQL is to be unset. To unset the SCRIPT definition, use</p> <pre data-bbox="430 913 698 997">PROCEDURE script1() BEGIN END</pre> <p>as the value for "script" parameter, where "script1" is the name of the procedure that is being altered.</p>
CIS-95540	When Pulling in the csjdbc.jar file's dependency via maven to build a project, an error is encountered as a parent POM dependency is not available in the build.
CIS-95625	<p>When configuring UNION on the Model tab, the column information(meta data) for the added view is not loaded on the Grid tab. The Grid does not show any columns that are available. To workaround this issue, put the first table/view in the model before adding the UNION and then switch to the Grid tab and pull down the column information.</p> <p>This only needs to be performed once while creating the view. The column information will be available in the resource grid views after adding other resources, and there will be no exceptions thrown.</p>

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Key	Summary
CIS-96087	If TDV has been upgraded from a prior version, the Published REST Web Service panel will show the base installed version instead of the current version.
CIS-96447	The default value for enableFlood is False in TDV Server as well as the clients drivers. Set it to True manually if you want to enable the functionality.
CIS-96701	PostgreSQL adapter cannot identify that a cursor/record type is being returned as the executed function's result. As a result, it cannot return a table as one of the output parameters.
CIS-96737	SSL handshake between the Excel client (version 2016 and 2019) and TDV which uses a self signed certificate for secure end points (i.e. https) displays a connection error message: "couldn't establish the trust relationship for the SSL/TSL secure channel".
CIS-96745	Testing connection for an Azure Data Lake datasource with an incorrect url causes TDV Studio to hang.
CIS-97012	For any site being added in Deployment Manager, if any changes are made and saved, then those changes disappear when user navigates to a different target site and back to the original site. This issue happens only with the 'Containers' tab for any data source under 'Resource Mappings'. To workaround this and see the change made, simply refresh the browser/click on the refresh icon in the DM.
CIS-97272	Creating a single table cache in Singlestore with BLOB value(s), throws an "Invalid Datatype formatter" error.
CIS-97273	Refreshing the cache data after creating single table cache in Singlestore having CLOB value(s), results in an "incompatible type" error.
CIS-97608	Privileges changed for data source resources when new tables were added

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Key	Summary
	using multi-table caching. This causes the permissions on the cache database to be revoked.
CIS-97946	Cloud File System adapters are currently not supported on Windows OS.
CIS-97999	An exception "Internal error has occurred" is encountered when deleting records on published view with WHERE-IN clause.
CIS-98016	Execution of CTAS statements for a Cloud File System data source will throw an error in the Windows environment.
CIS-98163	<p>For any site being added in Deployment Manager, if any changes are made and saved, then those changes disappear when user navigates to a different target site and back to the original site. This issue happens only with the 'Containers' tab for any data source under 'Resource Mappings'.</p> <p>To workaround this and see the change made, simply refresh the browser/click on the refresh icon in the DM.</p>
CIS-98364	<p>TDV Web UI loads data in the Data Grid control a 100 rows at a time. This data stays in the grid until the buffer is full.</p> <p>However, if there are more rows of data beyond the buffer, all rows will not be exported. You may scroll until all rows are displayed and then try to export to csv file. This limitation will be address in a future enhancement in TDV Web UI.</p>
CIS-98442	If an adapter has QueryPassthrough=true enabled in the Other field, then only packaged queries will work for that data source.
CIS-98668	When the number zero is entered as the Minimum/Maximum value in the statistics gathering table, "0" is not displayed.
CIS-98707	The Manual Cardinality Override settings value can only accept 2147483647 as the maximum. This may sometime need to be greater than this value depending on the data volume and currently this value cannot be changed.

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Key	Summary
CIS-99480	An exception will be thrown when invoking the hasClaim procedure for a claim with two forward slashes in the url.
CIS-99641	TDV Procedure calls are slower under load when metrics is enabled.
CIS-99672	<p>When using Deployment Manager, Migrate Resources Operation to deploy artifacts containing a cache to another site, choosing the option "Caches for Existing Objects: Re-Create Cache Tables" may throw the following exception:</p>
	<pre>MESSAGE TYPE RuntimeError MESSAGE Cannot create target table(s) '/shared/examples/ds_orders/tutorial/ViewSales_cache' for resource : '/shared/examples/ViewSales'. Detail Message: Unable to execute "CREATE TABLE "tutorial"."ViewSales_cache" ("cachekey" integer NOT NULL, "ProductID" numeric(32, 0), "ProductName" varchar(32768), "CategoryID" numeric(32, 0), "CategoryName" varchar(32768), "ProductDescription" varchar(32768), "SerialNumber" varchar(32768), "UnitPrice" numeric(32, 6), "ReorderLevel" numeric(32, 0), "LeadTime" varchar(32768), "Status" varchar(50), "Discount" numeric(12, 2))" in data source "/shared/examples/ds_orders". SQL State = 42P07 SQL Error Code = 0 [data-3911071] - Cause: ERROR: relation "ViewSales_cache" already exists</pre>
CIS-99695	<p>When editing a flow that was created in Web UI from TDV Studio using the "Edit in Web UI option", you will be transferred to the Web UI login page and you need to login to the tool and then select the flow to edit.</p>
CIS-100571	<p>Launching Web Manager from Studio as okta user intermittently throws "Parse input argument error". Logout and log in again to workaround this issue.</p>

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Key	Summary
CIS-100732	Removing claim in Web Manager intermittently throws error - Service failure: ServerError: An internal error occurred while processing the request. Cause: null [9901201].
CIS-100753	When updating the URL or classpath of an existing CJP datasource with paths containing spaces or "/" after file:, an error is thrown.
CIS-100754	In Web Manager, removing the user sometimes does not remove it from UI, unless page is refreshed.
CIS-100826	Invalid OAuth domain configuration may throw an authentication error when logging into TDV applications.
CIS-100830	OAuth domain containing an "&" in the domain name throws an exception when used to login to TDV applications.
CIS-100846	If an invalid token url is provided for an oauth domain then a new web manager tab needs to be opened for subsequent web manager logins.
CIS-100863	Leading or trailing whitespace for issueValue or Client Id causes Studio NPE during login.
CIS-100866	When setting up an OAuth domain with a token created with the Auth0 IDP, any leading or trailing whitespaces in the fields "Audience url", "Authorization url", "Token url", "Client Id", "Issuer Value" should be deleted. If there are any leading or trailing whitespaces, TDV applications will throw an exception.
CIS-100874	TDV's OData V4 implementation does not currently support having spaces in published tables or procedures names.
CIS-100980	Leading and trailing spaces are not removed from domain names and can you can therefore create 2 domain names that look similar; one with leading/trailing spaces and one without.
CIS-101351	While transforming data using UNION, the UNION output prevents the CASE

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Key	Summary
	to give an integer result.
CIS-101378	When explicit privileges are given to a group "testgroup" in source site on a view (testgroup does not exist in target), the export plan that contains resource bundle and principal bundle and principal mappings from source to target does not export the explicit privileges to target.
CIS-101520	Currently, you can only choose from a pre-populated list of Endpoint Region for accessing AWS S3 buckets.
CIS-101652	In PaaS environments, the WebUI displays endpoints with hostname as computer name and accessing such an endpoint will fail to work. If hostname in the endpoint URL is manually changed to machine name, then it will work.
CIS-102734	When using <code>/services/webservices/system/admin/user/operations/createGroup</code> to add a new group to Active Directory, the new group takes upto 30 minutes to be added.
CIS-103395	Inconsistencies are seen in the model panel when using the PUT method on the View that was created and edited in SQL tab.
CIS-103438	The 'group' column in KPI metrics is not populated.
CIS-103532	<p>If you have used a patch to upgrade to TDV 8.7, then, when duplicate or additional cpusets are mounted on linux environments we may see the error during server startup and TDV manager/studio login.</p> <pre data-bbox="431 1465 1268 1535">Duplicate cpuset controllers detected. Picking /sys/fs/cgroup/cpuset, skipping /cgroup/cpuset.</pre> <p>This is related to the JDK issue that has been fixed in version 11.0.18 which will be shipped with future TDV releases. To workaround this issue, given below are 2 options.</p> <p><u>Option 1</u> : Re-install TDV server and pause just before the last step and edit</p>

(Continued)

Key	Summary
	<p>conf/server/server.properties with "-XX:-UseContainerSupport" in vm options and bin/encryption_util.sh to add "-XX:-UseContainerSupport" to JAVA_OPTS and continue install.</p> <p>This will update all user passwords correctly in the security_members table.</p> <p>Option 2 : : Re-install TDV server and pause just before the last step and update JDK to 11.0.18 or higher when install is paused.</p> <p>#Pause install here :</p> <pre>Installing 0% _____ 50% _____ 100% ##### Starting server configuration and initialization process. Press [Enter] to continue: Before pressing Enter, do these steps below: 1. On another terminal, change directory to <TDV_INSTALL_DIR> and rename the jdk directory to jdk_old. Then install a new version of jdk (11.0.18) under <TDV INSTALL DIR>/jdk. No need to add the JVM option. 2. Proceed with installation of TDV Server. 3. For sanity, please check the contents of security_members table. On Unix Systems, the LD_LIBRARY_PATH must be set before the psql commands can be executed. Execute the commands below: cd <install_dir>/repository; export LD_LIBRARY_PATH=<install_dir>/repository/lib; ./repository/bin/psql -Uroot -hlocalhost -p9408 -d cisrepo -c "select * from cisrepo.security_members"</pre>
CIS-103871	If there were any custom functions created by the user in their TDV

(Continued)

Key	Summary
	environment, those custom functions might get unchecked after performing an in-place upgrade.
CIS-104694/CIS-104994	Google Cloud Storage databases with file names containing spaces cannot be introspected.
CIS-104712	When user edits the sql tab, the model is being destroyed. All the layout changes are deleted. Thus when doing the operation "Generate Model", the sql tab generates the tables/link from scratch.
CIS-104737	LISTAGG() aggregate function is not being pushed down to the datasource level while using DB2.
CIS-104841	The KPI module is expected to track only new user sessions that are created after the module has been enabled.
CIS-104843	Principal filters apply only to new sessions or requests that are received after the filter has been enabled.
CIS-104882	When there are multiple errors in the Monitor, the server will throw exception once it encountered the first error, and will not continue to save the rest.
CIS-105026	When creating an Azure domain in the TDV Web Manager, the Edit External Groups button does not display all groups available in Azure.
CIS-105043	Google Cloud Storage databases with Folder names containing spaces cannot be introspected.
CIS-105046	CFS adapters (Amazon S3, Azure Data Lake, Local File Storage and Google Cloud Storage) do not support INSERT statements with partial column lists.
CIS-105193	For Encrypted data source properties consistency, we would recommend customers to retype the secrets appear String type to be EncryptedString, and save the data source properties.

(Continued)

Key	Summary
CIS-105247	Web UI will not display a table when the table name matches it's schema name. Workaround is to either change the table name or corresponding schema name in order for the the table to show in Web UI.
CIS-105443	When changing the language to English in a French or Japanese machine, Studio UI cannot display its UI in English when the server and studio are both in French or Japanese machines. It remains in French or Japanese as the language in the operation system. You can workaround the issue by modifying the Studio.bat script and adding these parameters - Duser.language=en -Duser.region=US. You can then relaunch Studio.
CIS-105728	The Download Help link on the Online Help will display a "Page Not Found" error. You can use the link in the docsite (https://docs.tibco.com/products/tibco-data-virtualization) if you need to download the TDV help files.

Disabling the Drill Console

TDV Server (on-premises):

On operating system hosting TDV Server (Windows/Linux/AIX), change the firewall to not expose $(TDV_BASE_PORT - 100) + 3$.

Example: TDV Server installation on Linux using default $TDV_BASE_PORT=9400$.

Change firewalld or iptables to not allow inbound requests to port 9303.

TDV Server (docker) :

Modify TDV container/pod to not expose port $(TDV_BASE_PORT - 100) + 3$.

Example: Change the TDV Docker run_tdv_container.sh script to only allow external access to 9300-9302,9304-9306 using the content below.

Assumption: default $TDV_BASE_PORT=9400$. All previous ports will continue to be open except $(TDV_BASE_PORT - 100) + 3$.

Old content	New content
<pre>local H_DRILL_PORT_1=\$((H_DRILL_ BASE_PORT + 1)); local C_DRILL_PORT_ 1=\$((C_DRILL_BASE_PORT + 1))</pre>	<pre>local H_DRILL_PORT_2=\$((H_ DRILL_BASE_PORT + 2)); local C_ DRILL_PORT_2=\$((C_DRILL_BASE_ PORT + 2))</pre>
	<p><i>Add this new line</i></p>
	<pre>local H_DRILL_PORT_4=\$((H_ DRILL_BASE_PORT + 4)); local C_ DRILL_PORT_4=\$((C_DRILL_BASE_ PORT + 4))</pre>
<pre>CONTAINER_PORTS="-p \${H_BASE_PORT}- \${H_PORT_3}:\${C_BASE_PORT}-\${C_PORT_ 3} -p \$H_PORT_5:\$C_PORT_5 -p \$H_ PORT_9:\$C_PORT_9 -p \${H_DRILL_BASE_ PORT}-\${H_DRILL_PORT_2}:\${C_DRILL_ BASE_PORT}-\${C_DRILL_PORT_2} -p \${H_ DRILL_PORT_4}:\${C_DRILL_PORT_6}"</pre>	<pre>CONTAINER_PORTS="-p \${H_BASE_PORT}- \${H_PORT_3}:\${C_BASE_PORT}-\${C_PORT_ 3} -p \$H_PORT_5:\$C_PORT_5 -p \$H_ PORT_9:\$C_PORT_9 -p \${H_DRILL_BASE_ PORT}-\${H_DRILL_PORT_6}:\${C_DRILL_ BASE_PORT}-\${C_DRILL_PORT_6}"</pre>

Note: If you are not running the *run_tdv_container.sh* script that is provided with TDV, then you must manually exclude port 9303 when running the container using the **docker run** command. For example:

```
docker run -itd -v <volume>:<location> type=volume,source=tdv-
vol,target=/opt/TIBCO --cpus=2.000 -env [TDV_ADMIN_PASSWORD=<PASSWORD>]
[TDV_ADMIN_PASSWORD_FILE=<FILE with tdv admin password>] -m=8g -p
9300:9300 -p 9301:9301 -p 9302:9302 -p9304:9304 -p9305:9305 -p 9306:9306
-p 9400:9400 -p 9401:9401 -p 9402:9402 -p 9403:9403 --hostname=localhost
--name tdv myrepo/tdv:8.4 Dockerfile.tdv.repo
```

TDV Server Kubernetes:

Modify TDV helmchart to not expose port $(TDV_BASE_PORT - 100) + 3$.

Example: The content of the TDV helmchart should be changed to only allow external access to 9300-9302,9304-9306 as described in the table below.

Assumption: default TDV_BASE_PORT=9400. All previous ports will continue to be open except $(TDV_BASE_PORT - 100) + 3$.

tdv.yaml	tdv-svc.yaml
Remove the following content from the file <i>tdv/templates/tdv.yaml</i>	Remove the following content from the file <i>tdv/templates/tdv-svc.yaml</i>
<pre>- name: "p9303" containerPort: 9303</pre>	<pre>- port: 9303 name: "p9303" - port: 9303 nodePort: 31303 name: "p9303" - port: 9303 name: "p9303"</pre>

TDV and Business Directory 8.6.1 Fixed Issues

The following issues are fixed in this Service Pack of TIBCO® Data Virtualization.

Key	Summary
CIS-91768	Upgraded OpenSSL 1.1.1 in TDV ODBC to 3.0.5 (Windows+Linux) and 1.1.1q (AIX).
CIS-91784	Unable to connect to a database in TDV that has space in its name. This has been fixed.
CIS-95482	Flows with emoji in the flow name in TDV Web UI, encountered an error when loading data in Tibco Spotfire. This has been fixed.
CIS-100003	ADO.NET Encoder has been modified to use the ZigZag setting for data transfers.
CIS-100372	Upgraded postgresql JDBC driver to 42.2.26 for CVE-2022-31197.
CIS-100382	When using NTLM authentication, unable to connect to ADO .Net driver. This has been fixed.
CIS-100549	Improvement to error message generated in ODBC driver when an invalid hostname is used.
CIS-100551	When using OAuth2 authentication, unable to connect to ADO .Net driver. This has been fixed.
CIS-101546	Upgrading from TDV 8.3 to TDV 8.5 failed with an error "CREATE INDEX error "string too long"". This has been fixed.
CIS-101625	When upgrading directly to TDV 8.6 from prior 8.x versions, errors were

(Continued)

Key	Summary
	encountered which needed the users to upgrade to TDV 8.5.4 first before upgrading to 8.6. This has been fixed. Users can now upgrade to TDV 8.6.1 directly from prior 8.x versions of TDV.
CIS-101809	In a Local File System data source, creating 2 tables with the same file name in different schemas throws an exception similar to "[Code: 1906510, SQL State:] An exception occurred when executing the following query: "CREATE TABLE fileSchema."test1.parquet" (col1 VARCHAR, col2 INTEGER, col3 VARCHAR)". Cause: Table default.test1_46_parquet already exists. You need to drop it first. [Log ID: fd2945c2-ca22-4b80-b698-1be8376dfa95] [jdbc-1906510]". This has been fixed.
CIS-101811	When using a Local File System data source, "DROP TABLE" DDL statement did not remove the file. This has been fixed.
CIS-101827	An error was encountered connecting to Salesforce.com adapter in 8.6 - Cause: org/apache/axis/AxisFault This has been fixed.
CIS-102330	Upgraded Apache Commons Text to 1.10 for CVE-2022-42889.

TDV and Business Directory 8.6 Fixed Issues

The following issues are fixed in the 8.6 release of TIBCO® Data Virtualization.

Key	Summary
CIS-65694	DATE_ADD function is now supported by MySQL Datasource.
CIS-73453	TDV now supports as an extension for Visual Studio 2019 version.
CIS-86554	jQuery has been updated to version 3.6.0 for TDV Web Manager
CIS-88747	Red Hat Enterprise Linux 8 is now supported by TDV.
CIS-90496	Fixed the debug log to display appropriate messages about Apache Drill introspection.
CIS-91321	Fixed the CLOB type column to be CAST as varchar in MySQL datasource.
CIS-92029	Due to a yaml file specification change, a data type mismatch occurred for the existing data in repository when doing a full server backup. This has been fixed.
CIS-92349	NumberFormatException was thrown for published XQuery that has "xs:boolean" data type in REST/JSON response. This is fixed.
CIS-93190	TDV would cast a cell that contained the characters "m", "d", "y", "h", or "s" as a Date or Time data type. This has been fixed. These cells will now retain their original Excel data type.
CIS-	Fixed the Composite datasource connection URL string to display the domain in

(Continued)

Key	Summary
93515	use.
CIS-95146	Fixed the maximum SQL length alias issue across all data sources that caused unexpected results while pushing the query to the underlying data source.
CIS-96226	GROUP BY is now supported in ODATA via system query option \$apply. The \$apply option supports the transformations: Aggregate, Group by, Compute and Filter.
CIS-96350	Server driven pagination is now supported A client can pass the header "odata.maxpagesize" to specify the max page size Also, the server has a new configuration to set a maxpagesize default.
CIS-96671	Added new optional property usable in Connection String Property Name: EnableKeepAlive Property Type: Boolean Default Value: false In DSN Editor UI(ODBC) this property is located under 'connection' tab When set to true, the driver enables TCP-KeepAlive for the connection.
CIS-96849	Fix to the Keystore attached to SOAP datasource which got corrupted intermittently.
CIS-96850	Fixed issue with accessing network files for TDV file data sources.
CIS-96924	TDV failed to execute the DELETE statement with EXISTS operator for Vertica DB. This has been fixed.
CIS-97403	Cache prepared statement plans are now supported in OData. Prepared statements will be used when an ODATA url contains a key predicate.
CIS-97412	Fixed the errors encountered when introspecting the password protected access file.
CIS-97425	After configuring SSL in TDV, the customer is unable to establish a secure connection to the Web Manager. "Select a Certificate" warning pops up each time.

(Continued)

Key	Summary
	To control this, a new configuration setting has been added - Studio > Administration > Configuration > Server > Communications > Want Client Authentication. If true, Server will send client certificate request for SSL authentication. Default is true. The TDV server must be restarted to take effect. You can set this configuration to false to avoid the popup "Select a Certificate" in Web Manager. Note that if you have mutual authentication configured in any of your published web services, setting this configuration to false will disable it.
CIS-97450	Snowflake adapter now supports optional Role name field.
CIS-97755	In Studio, the Client Secret was not obfuscated in the OAuth 2.0 tab for REST, SOAP, and WSDL data sources. This has been fixed.
CIS-97913	Oracle Synonyms with DB Link were not introspecting for Data Source. This has been fixed.
CIS-97991	Support has been added for \$count with \$filter in the Odata call.
CIS-97994	Fixed Null pointer exception when executing Any to Any transformation.
CIS-98010	The updateResources API now supports subtype NONE for type DATA_SOURCE.
CIS-98062	Fixed raw literal value processing issue for SAP data source.
CIS-98111	It will be possible to use the 'Pass-through login' credentials (if you need to do so) while using Teradata's 'Enable Fast Load/Fast Export for large table' option when the source and target datasources are different. This makes sure that the insertion operation also occurs with the provided user credentials (pass-through) and not using the default DS credentials when using this specific set of configurations.
CIS-	More concise error message provided for invalid date format.

(Continued)

Key	Summary
98320	
CIS-98324	ODBC Windows driver closes the connection when returning CLOB values that exceed 16000 characters. This has been fixed.
CIS-98411	Introspection for CFS data sources (Amazon S3, Azure Data Lake and Local File Storage) could skip tables whose name contained special characters. This has been fixed.
CIS-98437	MongoDB data source was not failing over to other nodes in replica set. This has been fixed in MongoDB version 21.0.7947 and up. Please get new adapter from TDV 8.4 or above TDV_adapter_<version>_all.zip hotfix.
CIS-98439	Resolved duplicate records being inserted into Snowflake tables in Snowflake adapter 21.0.7963. Please get new adapter from 8.4 or above TDV_adapter_<version>_all.zip hotfix.
CIS-98455	An 'OAuthGrantType' property has been added to the Salesforce adapter that allows you to set it to 'PASSWORD'.
CIS-98456	Support has been added for OAuth via a SharePoint app. This is made available via the 'SharePointOAuth' AuthScheme. You will also need to set OAuthGrantType to 'Client'. Required Connection Properties: AuthScheme=SharePointOAuth InitiateOAuth=GETANDREFRESH OAuthGrantType=CLIENT OAuthClientId OAuthClientSecret
CIS-98459	Calling a procedure through the TDV ADO .Net Data provider failed. This has been fixed.
CIS-98463	Snowflake JDBC driver has been updated to version 3.13.5 in Snowflake adapter 21.0.7963.0.

(Continued)

Key	Summary
CIS-98499	An issue causing contention and progressive slowness when many quick requests are sent to TDV has been fixed.
CIS-98508	Updated sharepoint adapter to version 21.0.7985.0.
CIS-98510	After a deployment using Deployment Manager, the keystore in the Advanced panel on the SOAP data source at the source side would disappear. This has been fixed.
CIS-98537	SPLIT_PART function did not work with '.' or '?' in some earlier versions of TDV. This has been fixed.
CIS-98539	When defining a Column-Based Security with a "Partial String Mask" rule, the suffix value got replaced with "XXX-," after saving. This is fixed.
CIS-98543	TDV Power BI driver has been updated to version 21.0.7942.0
CIS-98576	Column Description in SQL Server is not set as Annotation in TDV. This is fixed.
CIS-98592	Using the Redshift adapter under "packages", queries returning large amounts of data may cause memory in TDV to run high and CPU usage to increase. Using settings in the "Other" category in the adapter panel can restrict memory and CPU usage if needed. Below are the recommended settings, but these may be altered depending on your situation. MaxConnectionBuffers=50;FlushSessionBuffersPool=True;CancelPendingStatement=True Actions
CIS-98709	Fixed the inconsistent behavior of procedures created and published with OData V4.
CIS-98716	ADO.Net Data Provider version has been updated to 7997.

(Continued)

Key	Summary
CIS-98734	backup_export procedure failed with an xception "Given final block not properly padded. Such issues can arise if a bad key is used during decryption.". This has been fixed.
CIS-98741	GIT resources disappeared from the repository after republishing. Thi is fixed.
CIS-98742	Fixed NPE during logging to log file.
CIS-98772	Fixed issue when using PIVOT or UNPIVOT inside a sql script
CIS-98776	Users without READ privileges on published table were able to retrieve data from that table. This has been fixed.
CIS-98779	Google BigQuery requests would intermittently return the error "HTTP/2.0 404 Not Found". This has been fixed.
CIS-98787	hasClaim/getClaim procedures return an error when a non existing claim is passed. This specifically happens when the JSON is nested. This has been fixed.
CIS-98830	While refreshing the cache the following error was encountered: "The multi-part identifier "aggrExpr3109.c3117" could not be bound". This has been fixed.
CIS-98836	Fixed alias and position errors caused by SELECT over JOIN and function arguments in aggregate functions.
CIS-98846	Fixed query engine optimization issues.
CIS-98847	Fixed memory leak when running queries.
CIS-98869	LDAPS users were getting dropped when "Auto-synchronization" feature is enabled due to a case-sensitive mismatch issue. This has been fixed.

(Continued)

Key	Summary
CIS-98912	Fixed "NLS data type mismatch" issues encountered in RBS policy.
CIS-98932, CIS-98787	Issues with using the built-in procedures hasClaim and getClaim in a nested JSON has been fixed.
CIS-98948	Updated TDV to use log4j 2.17.1.
CIS-99020	Accessing Swagger link for "Published REST Web Service" failed with the error: Fetch error Server Error http://localhost:9490/rest/webservice.json. This has been fixed.
CIS-99024	Fixed issue related to sso Token exchange process. This affects windows driver only.
CIS-99040	Attempting to add a new domain in TDV web manager throws "ServerError: Cannot create domain "LdapLocal".external domain information is invalid. [security-1900204]" error. This has been fixed.
CIS-99042	TO_DATE and PARSE_DATE functions with format option is not throwing an error when an invalid date is provided as an input. Instead it returns an invalid date such as '2021-02-31'. This has been fixed.
CIS-99056	When querying data in Microsoft Excel, the following exception was thrown. "Unable to execute native SQL fetch to create Dataset because it is not able to create java.sql.Statement object. [data-2913120] Cause: Could not find a valid license for using JDBC-ODBC Bridge 2018 on this system." This has been fixed in the JDBCODBC adapter version 21.0.8037.0 and above. This has been fixed.
CIS-99062	Cached views were not being applied with PIVOT and UNPIVOT operators. You may see this error. "Unable to load data source with id "0" from repository. [datasrc-2940000]" This issue has been fixed.

(Continued)

Key	Summary
CIS-99105	Fixed Null Pointer Exception in PushableFunctionSplitter when creating execution plan.
CIS-99130	Scalar subquery not initialized in UPDATE statement if target table is a composite view . This has been fixed.
CIS-99142	VARCHAR datatypes were not getting properly interpreted in TDV. VARCHAR(16) should be interpreted as VARCHAR with 16 characters. This has been fixed.
CIS-99164	Fixed the java.lang.ClassCastException error encountered when creating an execution plan.
CIS-99165	Fixed the Null Pointer Exception encountered when executing query with UnionPreggregator.
CIS-99194	Fixed issues encountered while generating DEBUG logging for the advanced adapters after enabling the DEBUG property in log4j2 file.
CIS-99209	Encryption failures were encountered on the joined node after the sync. This has been fixed to properly communicate between nodes.
CIS-99210	The quotes separating the schema name from the index name are missing when a table is created with an index for an Oracle data source when setting up multi-table caching. This has been fixed.
CIS-99213	Fixed MongoDB adapter to include options "x509" authentication type in the Auth Scheme drop-down list.
CIS-99252	TDV installation folder contained two versions of the ODBC driver installation files. This has been fixed and the duplicate has been removed.
CIS-99262	AGGREGATE Functions were not being pushed down to MySQL when two functions were used in the same SELECT query. This has been fixed.
CIS-99263	If TDV 8.5 ODBC Driver is used to connect to a TDV Server using python as the end client, the client ends the connection with a segmentation fault. This has been

(Continued)

Key	Summary
	fixed.
CIS-99332	Fixed the error "Unknown where node type" encountered in Oracle DB when the "WHERE EXISTS" clause in the DELETE statement is from a view.
CIS-99376	Functions with large input counts can block if the capability file does not support the function. This has been fixed.
CIS-99392	Fixed the missing alias in Fetch node when using \$expand in OData V4.
CIS-99396	The sql projection aliases is now limited to 256 characters for sql projections that do not have a valid alias.
CIS-99403	The TDV ODBC Client throws "Unable to query text" when "Max Text Column Size" parameter is set. This has been fixed.
CIS-99404	A new Snowflake adapter is provided to address the "JWT token invalid" error received when authenticating the adapter.
CIS-99406	Fixed Role Based Access Control (RBAC) violation in TDV Server for CBS policies.
CIS-99429	When the execution plan is generated for a query that contains a function, you may get an error similar to "ERROR: missing FROM-clause entry for table "tExpr6451"". This has been fixed.
CIS-99481	Fixed the Query Engine optimization issue.
CIS-99490	Columns that returned 0 in the earlier TDV versions were returning NULL in TDV 8.5. This has been fixed.
CIS-99542	Fixed TDV windows only installer (uninstaller.exe) issues CVE-2021-22037 and CVE-2021-22038.

(Continued)

Key	Summary
CIS-99554	The users were dropped while enabling "Auto-Sync" in LDAP domain. This has been fixed.
CIS-99588	Using a UNIQUEIDENTIFIER in INSERT or UPDATE in Microsoft SQL Server is now supported. This restriction has been removed when using TDV's Data Ship functionality.
CIS-99640	Fixed GoogleBigQuery adapter timestamp parsing error.
CIS-99655	Documentation update: Instructions to build docker image for Azure Kubernetes environment has been improved for clarity.
CIS-99694	Cannot update the password for the existing LDAP domain if the password contains special characters.
CIS-99772	An "Invalid Login attempt" error encountered while changing the login name for the LDAP domain when the password of the user is different. This has been fixed.
CIS-99773	If the TDV WebUI Data Catalog consists of an incorrect flow created by one user, then the All Flows section of the Web UI gives a blank screen when used by a different user. This issue has been fixed.
CIS-99775	Documentation update (Administration Guide): The requirements to use VCS with TDV has been updated for accuracy.
CIS-99803	Alias resolution for a query was resulting in the error "missing FROM-clause entry for table". This has been fixed.
CIS-99810	CREATE table failed on Amazon Redshift data source due to Double precision column type. This has been fixed.
CIS-99827	REST API POST operation with multi-form data input failed. This has been fixed.
CIS-	ClassCastException occurred when trying to take a full server backup. This has been

(Continued)

Key	Summary
99840	fixed.
CIS-99841	Query against SAP fails with the error "An error has occurred while parsing a dynamic entry" when the query contains a WHERE clause using characters. This has been fixed.
CIS-99871	Functions FIRST and LAST were not working as expected. This has been fixed.
CIS-99993	Column and View data are unavailable using authentication type OAuth when using Dynamics CRM adapter. This has been fixed.
CIS-100034	In a query involving two different SQL servers, a SEMI JOIN caused duplicate rows in the result set. This has been fixed.
CIS-100035	Doc Update: correction to the directory that must be used for placement of the Oracle OCI adapter jars for XML support.
CIS-100053	Odata URL not working as expected when using "ne null & eq null" as a filter option. This has been fixed.
CIS-100097	Doc Update: Support for MS SQL Server 2016 added to the Adapter Guide.
CIS-100152	Doc Update - Kerberos support removed from PostgreSQL Adapter Guide.
CIS-100217	Function FIRST VALUE IGNORE NULLS returned incorrect results. This has been fixed.
CIS-100306	Fixed the error encountered while connecting from Spotfire to TDV using Load balancer Fully Qualified Domain Name.
CIS-100332	Using the client drivers (JDBC, ODBC and ADO.Net, queries with concurrent calls to server gets hung. This has been fixed.

(Continued)

Key	Summary
CIS-100510	Fixed the exception thrown when using ODBC driver with SQL Server "Linked Services".
CIS-100610	Importing a car file failed to re-analyze dependencies and hook the links again, because of a few exceptions encountered in the ImpactApi. This has been fixed.
CIS-100703	Fixed the infinite loop issues in PreparedParser that was caused due to inefficiencies with LEFT parenthesis.
CIS-100819	Doc Update: Package Import Utility usage instructions have been updated in the Admin Guide.
CIS-100872	Doc Update: Clarified the usage of the CREATE TABLE AS SELECT statement in the Reference Guide.
CIS-100877	Doc Update: Deployment Manager Guide has been updated with the correct curl command in the syntax section.

TDV and Business Directory 8.5.4 Fixed Issues

The following issues are fixed in this Service Pack of TIBCO® Data Virtualization.

Key	Summary
CIS-91768	Upgrade TDV ODBC Drivers (Windows/Linux) to use OpenSSL 3.0.5 Upgrade TDV ODBC Driver (AIX) to use OpenSSL 1.1.1q
CIS-91810	Fixed the Oracle EBS datasource introspection issues.
CIS-92349	NumberFormatException was thrown for published XQuery that has "xs:boolean" data type in REST/JSON response. This is fixed.
CIS-95146	Fixed the maximum SQL length alias issue across all data sources that caused unexpected results while pushing the query to the underlying data source.
CIS-96671	Added new optional property usable in Connection String Property Name: EnableKeepAlive Property Type: Boolean Default Value: false In DSN Editor UI(ODBC) this property is located under 'connection' tab. When set to true, the driver enables TCP-KeepAlive for the connection.
CIS-96849	Fix to the Keystore attached to SOAP datasource which got corrupted intermittently.
CIS-97750	A new setting is added to the Snowflake properties YAML which allows literal-only comparisons.

(Continued)

Key	Summary
CIS-97755	In Studio, the Client Secret was not obfuscated in the OAuth 2.0 tab for REST, SOAP, and WSDL data sources. This has been fixed.
CIS-97913	Oracle Synonyms w/DB Link were not introspecting for Data Source. This has been fixed.
CIS-97937	Snowflake adapter has been updated to include new capability for CurrentDate() support.
CIS-97991	Support has been added for \$count with \$filter in the Odata call.
CIS-97994	Fixed Null pointer exception when executing Any to Any transformation.
CIS-98139	When connecting to a SOAP data source, use the alias specified in the Advanced > Certificates section if it exists to allow SSL connections.
CIS-98411	Introspection for CFS data sources (Amazon S3, Azure Data Lake and Local File Storage) could skip tables whose name contained special characters. This has been fixed.
CIS-98455	An 'OAuthGrantType' property has been added to the Salesforce adapter that allows you to set it to 'PASSWORD'.
CIS-98456	Support has been added for OAuth via a SharePoint app. This is made available via the 'SharePointOAuth' AuthScheme. You will also need to set OAuthGrantType to 'Client'. Required Connection Properties: AuthScheme=SharePointOAuth InitiateOAuth=GETANDREFRESH OAuthGrantType=CLIENT OAuthClientId OAuthClientSecret
CIS-98459	Calling a procedure through the TDV ADO .Net Data provider failed. This has been fixed.

(Continued)

Key	Summary
CIS-98499	An issue causing contention and progressive slowness when many quick requests are sent to TDV has been fixed.
CIS-98508	Updated sharepoint adapter to version 21.0.7985.0.
CIS-98539	When defining a Column-Based Security with a "Partial String Mask" rule, the suffix value got replaced with "XXX-', " after saving. This is fixed.
CIS-98543	TDV Power BI driver has been updated to version 21.0.7942.0
CIS-98576	Column Description in SQL Server is not set as Annotation in TDV. This is fixed.
CIS-98592	Using the Redshift adapter under "packages", queries returning large amounts of data may cause memory in TDV to run high and CPU usage to increase. Using settings in the "Other" category in the adapter panel can restrict memory and CPU usage if needed. Below are the recommended settings, but these may be altered depending on your situation. MaxConnectionBuffers=50;FlushSessionBuffersPool=True;CancelPendingStatement=True Actions
CIS-98709	Fixed the inconsistent behavior of procedures created and published with OData V4.
CIS-98716	ADO.Net Data Provider version has been updated to 7997.
CIS-98734	backup_export procedure failed with an xception "Given final block not properly padded. Such issues can arise if a bad key is used during decryption.". This has been fixed.
CIS-98741	GIT resources disappeared from the repository after republishing. Thi is fixed.
CIS-98776	Users without READ privileges on published table were able to retrieve data from that table. This has been fixed.
CIS-98787	hasClaim/getClaim procedures return an error when a non existing claim is passed. This specifically happens when the JSON is nested. This has been fixed.

(Continued)

Key	Summary
CIS-98830	While refreshing the cache the following error was encountered: "The multi-part identifier "aggrExpr3109.c3117" could not be bound". This has been fixed.
CIS-98836	Fixed alias and position errors caused by SELECT over JOIN and function arguments in aggregate functions.
CIS-98912	Fixed "NLS data type mismatch" issues encountered in RBS policy.
CIS-98932, CIS-98787	Issues with using the built-in procedures hasClaim and getClaim in a nested JSON has been fixed.
CIS-98948	Updated TDV to use log4j 2.17.1.
CIS-99036	TDV Oracle adapter has been modified to handle special character column size scenarios.
CIS-99040	Attempting to add a new domain in TDV web manager throws "ServerError: Cannot create domain "LdapLocal".external domain information is invalid. [security-1900204]" error. This has been fixed.
CIS-99042	TO_DATE and PARSE_DATE functions with format option is not throwing an error when an invalid date is provided as an input. Instead it returns an invalid date such as '2021-02-31'. This has been fixed.
CIS-99056	When querying data in Microsoft Excel, the following exception was thrown. "Unable to execute native SQL fetch to create Dataset because it is not able to create java.sql.Statement object. [data-2913120] Cause: Could not find a valid license for using JDBC-ODBC Bridge 2018 on this system." This has been fixed in the JDBCODBC adapter version 21.0.8037.0 and above.
CIS-99062	Cached views were not being applied with PIVOT and UNPIVOT operators. You may see this error. "Unable to load data source with id "0" from repository. [datasrc-2940000]" This issue has been fixed.
CIS-99105	Fixed Null Pointer Exception in PushableFunctionSplitter when creating execution plan.

(Continued)

Key	Summary
CIS-99209	Fixed encryption error in fast cluster join.
CIS-99130	Scalar subquery not initialized in UPDATE statement if target table is a composite view . This has been fixed.
CIS-99142	VARCHAR datatypes were not getting properly interpreted in TDV. VARCHAR(16) should be interpreted as VARCHAR with 16 characters. This has been fixed.
CIS-99164	Fixed the java.lang.ClassCastException error encountered when creating an execution plan.
CIS-99165	Fixed the Null Pointer Exception encountered when executing query with UnionPreggregator.
CIS-99194	Fixed issues encountered while generating DEBUG logging for the advanced adapters after enabling the DEBUG property in log4j2 file.
CIS-99209	Encryption failures were encountered on the joined node after the sync. This has been fixed to properly communicate between nodes.
CIS99210	The quotes separating the schema name from the index name are missing when a table is created with an index for an Oracle data source when setting up multi-table caching. This has been fixed.
CIS-99213	Fixed MongoDB adapter to include options "x509" authentication type in the Auth Scheme drop-down list.
CIS-99262	AGGREGATE Functions were not being pushed down to MySQL when two functions were used in the same SELECT query. This has been fixed.
CIS-99263	If TDV 8.5 ODBC Driver is used to connect to a TDV Server using python as the end client, the client ends the connection with a segmentation fault. This has been fixed.
CIS-99332	Fixed the error "Unknown where node type" encountered in Oracle DB when the "WHERE EXISTS" clause in the DELETE statement is from a view.

(Continued)

Key	Summary
CIS-99342	VCS can not be enabled in TDV 8.5 or higher if there has been an in-place upgrade of just the TDV Sever from TDV 8.x to TDV 8.5.0. On the windows platform only, if you are upgrading from a pre-8.5 TDV Server installation to TDV Server 8.5 or higher, you need to upgrade your TDV Studio to the same version you upgraded your TDV Server with.
CIS-99376	Functions with large input counts can block if the capability file does not support the function. This has been fixed.
CIS-99392	Fixed the missing alias in Fetch node when using \$expand in OData V4.
CIS-99396	Limit for sql projection aliases has been set to 256 characters for the sql projections that do not have a valid alias.
CIS-99403	The TDV ODBC Client throws "Unable to query text" when "Max Text Column Size" parameter is set. This has been fixed.
CIS-99404	A new Snowflake adapter is provided to address the "JWT token invalid" error received when authenticating the adapter.
CIS-99406	Fixed Role Based Access Control (RBAC) violation in TDV Server for CBS policies.
CIS-99429	When the execution plan is generated for a query that contains a function, you may get an error similar to "ERROR: missing FROM-clause entry for table "tExpr6451"". This has been fixed.
CIS-99481	Fixed the Query Engine optimization issue.
CIS-99490	Columns that returned 0 in the earlier TDV versions were returning NULL in TDV 8.5. This has been fixed.
CIS-99554	The users were dropped while enabling "Auto-Sync" in LDAP domain. This has been fixed.
CIS-99588	Using a UNIQUEIDENTIFIER in INSERT or UPDATE in Microsoft SQL Server is now supported. This restriction has been removed when using TDV's Data Ship

(Continued)

Key	Summary
	functionality.
CIS-99640	Fixed GoogleBigQuery adapter timestamp parsing error.
CIS-99694	Cannot update the password for the existing LDAP domain if the password contains special characters.
CIS-99772	An "Invalid Login attempt" error encountered while changing the login name for the LDAP domain when the password of the user is different. This has been fixed.
CIS-99773	If the TDV WebUI Data Catalog consists of an incorrect flow created by one user, then the All Flows section of the Web UI gives a blank screen when used by a different user. This issue has been fixed.
CIS-99803	Alias resolution for a query was resulting in the error "missing FROM-clause entry for table". This has been fixed.
CIS-99810	CREATE table failed on Amazon Redshift data source due to Double precision column type. This has been fixed.
CIS-99840	ClassCastException occurred when trying to take a full server backup. This has been fixed.
CIS-99841	Query against SAP fails with the error "An error has occurred while parsing a dynamic entry" when the query contains a WHERE clause using characters. This has been fixed.
CIS-99871	Functions FIRST and LAST were not working as expected. This has been fixed.
CIS-99993	Column and View data are unavailable using authentication type OAuth when using Dynamics CRM adapter. This has been fixed.
CIS-100034	In a query involving two different SQL servers, a SEMI JOIN caused duplicate rows in the result set. This has been fixed.
CIS-	Function FIRST VALUE IGNORE NULLS returned incorrect results. This has been

(Continued)

Key	Summary
100217	fixed.
CIS-100268	The \$filter condition with null values in a OData query failed. This has been fixed.
CIS-100332	Using the client drivers (JDBC, ODBC and ADO.Net, queries with concurrent calls to server gets hung. This has been fixed.
CIS-100510	Fixed the exception thrown when using ODBC driver with SQL Server "Linked Services".
CIS-100593	Upgrade TDV Server, BD and Studio to use Java 11.0.15. Windows - java version "11.0.15" 2022-04-19 LTS Linux - java version "11.0.15" 2022-04-19 LTS AIX - openjdk version "11.0.15" 2022-04-19
CIS-100609	Update CosmosDB driver to 21.0.8180.0.
CIS-100610	Importing a car file failed to re-analyze dependencies and hook the links again, because of a few exceptions encountered in the ImpactApi. This has been fixed.
CIS-100669	Active Directory adapter has been updated to version 21.0.8133.0.
CIS-100674	API call cbsGetPolicy failed with an error "value may not null". This has been fixed.
CIS-100703	Fixed the infinite loop issues in PreparedParser that was caused due to inefficiencies with LEFT parenthesis.
CIS-100720	Prevented storing any Cross-Site Scripting created while adding rule into the policy of Row-Based-Security in Web Manager.

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Key	Summary
CIS-100736	Studio's sql editor's "Save To File" option saved incorrect results in the file. This has been fixed.
CIS-100808	Query containing WITH clause failed with error "The request has been closed. No operations can be performed using it".
CIS-100811	Fixed issue where cancelling of a query request can take abnormally long.
CIS-100812	When user.dir is not set and DEBUG is enabled, Deployment Manager throws an exception.
CIS-100817	When running a request to Google Spread Sheets, you may encounter the exception "User Rate Limit Exceeded. Rate of requests for user exceed configured project quota.". This has been fixed in GoogleSheets adapter version v21.0.8137.0 and later.
CIS-100886	WITH clause was not pushed down in MySQL datasource. This has been fixed.
CIS-100999	The Divide operator in TDV did not return the fractional part of the result and returned only the integer part. For Oracle, Hive data sources, this was contrary to the native behavior. This has been fixed.
CIS-101029	Fixed use case involving non standard identifiers belonging to a WITH clause. Identifiers normally follow the following regular expression: a-zA-Z0-9_ \$ #
CIS-101094	In Deployment Manager, when a Principal Bundle is deployed, the "all" group is not replicated to the Target. This causes users to lose privileges on resources located under "/services". This has been fixed.
CIS-101157	The value of Write Timeout Window server configuration setting does not get updated on the node that was joined. This has been fixed.
CIS-	Queries that ran successfully in a previous release of TDV failed with an error

(Continued)

Key	Summary
101170	"The request has been closed. No operations can be performed using it". This has been fixed.
CIS-101201	Cassandra adapter has been updated to version 21.0.8160.
CIS-101227	When using the DATE_TRUNC function in TDV against Oracle, a "Failed query" error was encountered. This has been fixed.
CIS-101229	Web Manager unable to change the language to japanese even if the browser and localisation is set to Japan. This has been fixed.
CIS-101237	Exporting a Full Server Backup failed with an decryption error: This has been fixed.
CIS-101244	Amazon Redshift adapter has been updated to version 21.0.8180.
CIS-101352	Fixed VCS issue with commit folder names having umlaut characters.
CIS-101440	The AWS govcloud end points were not listed in the Amazon S3 adapter endpoints list.
CIS-101546	Upgrading from TDV 8.3 to 8.5.0 failed with CREATE INDEX error "string too long". This has been fixed.

TDV and Business Directory 8.5.3 Fixed Issues

The following issues are fixed in this Service Pack of TIBCO® Data Virtualization.

Key	Summary
CIS-99406	Fixed Role Based Access Control (RBAC) violation in TDV Server for CBS policies.
CIS-99542	Fixed TDV windows only installer (uninstaller.exe) issues CVE-2021-22037 and CVE-2021-22038.
CIS-100985	<p>FastJson was removed from the TDV distribution in 8.5.3. It was a required component in older versions of TIBCO Streaming adapter, but was removed in the newest version.</p> <p>Note: The FastJson library has a known vulnerability CVE-2022-25845, which is fairly severe, but neither TDV nor the Streaming adapter has been vulnerable due to the use of "safe mode" when handling the FastJson library.</p>

TDV and Business Directory 8.5.2 Fixed Issues

The following issues are fixed in this Service Pack of TIBCO® Data Virtualization.

Key	Summary
CIS-98948	Updated TDV to use log4j 2.17.1.
CIS-99023	Removed slf4j-log4j12 dependency for ComputeDB and TibcoStreaming adapters
CIS-99059	Fixed missing log4j class issue in TDV adapter (cis_ds_distributed).
CIS-99162	Updated logback software to logback 1.2.10.
CIS-99238	Added tdv namespace label to tdv.yaml configmap.

TDV and Business Directory 8.5.1 Fixed Issues

The following issues are fixed in this Service Pack of TIBCO® Data Virtualization.

Key	Summary
CIS-98476	<p>A new server configuration is added. Set the following configuration value to True if you want to run Custom Java Procedures:</p> <p>Administration -> Configuration -> Data Sources -> CJP -> Enable the ability to run Custom Java Procedures</p> <p>By default this is set to False. This is a change in behavior from the earlier versions of TDV server. If you set this to True, make sure you fully trust the JAR files used for Custom Java Procedures.</p> <p>Note: The Custom Java Procedure JAR file must exist within the directory specified in the Custom Jar Import Directory server configuration (Administration -> Configuration -> Server -> Configuration -> Files -> Custom Jar Import Directory) and must have a .jar extension in the file name. Because of this, it is important to note that once a customer upgrades to 8.3.1, 8.4.1, or 8.5.1, it will be impossible for Custom Java Procedure data sources to have their URLs pointing to a location other than within the Custom Jar Import Directory.</p>
CIS-98743	<p>To mitigate CVE-2021-44228 ("Log4Shell" zero-day exploit), all bundled log4j2 jar dependencies have been upgraded to log4j 2.17.</p>

TDV and Business Directory 8.5 Fixed Issues

The following issues are fixed in the 8.5 release of TIBCO® Data Virtualization.

Key	Summary
CIS-66502	TDV now supports Oauth2 for published web services (REST, OData) and drivers (JDBC, ODBC and ADO.Net).
CIS-90344	Couchbase adapter now supports query-passthrough option.
CIS-91652	Fix to the Studio UI to improve readability when large data is appended in OAuth tab of the data source.
CIS-92723	<p>The internal PostgreSQL database has been upgraded to PostgreSQL 12.8.</p> <p>On-premises (installers): TDV 8.5 Server and Business Directory now use PostgreSQL 12.8.</p> <p>Docker and Kubernetes: TDV 8.5 Server now uses Postgresql 12.8. Future 12.X updates will automatically be updated for this distribution when the TDV images are rebuilt.</p>
CIS-94227	<p>Fix for the following issue encountered while connecting through the ODBC driver, which prevents users from executing queries using DBLINK:</p> <p><code>ORA-28562: Heterogeneous Services data truncation error</code></p>
CIS-94498	Ability to control the max size of the log files (cs_monitor.log and cs_monitor.out) has been added to the composite.sh/bat files in the linux/windows environments.
CIS-94530	Support for Binary Literals have been added to TDV 8.5.
CIS-94531	Fix for not saving the empty PASSWORD_STRING in the new Data

(Continued)

Key	Summary
	Source window with asterisks.
CIS-94570	Documentation update for the isBlocking parameter set in executeProcudure, executeNativeSql, executeSql, executeSqlScript and executePreparedSql APIs.
CIS-94763	TDV now allows customers to disable group synchronization during the login. A built-in procedure is available that can be invoked to manually sync the groups in the Web Manager or create a trigger to sync the groups.
CIS-95268	Fix to remove Spike Triggers from the list of system event triggers.
CIS-95437	Fix to make HTTP/S Jetty settings (Max/Min Threads, Accept Queue, Max Idle Time) configurable and clean up unused settings
CIS-95846	Fix to the monitor service process which failed to start on non-English Windows Operating Systems in TDV Business Directory version 8.4.
CIS-95913	Documentation update to clarify the MPP Engine functionality in a cluster environment.
CIS-96184/CIS-95834	TDV now supports Table Column Aliases (SQL-92).
CIS-96550	Fix for annotation details to not be truncated when using the ODBC driver.
CIS-96558	Fix to the functions DATEADD, DATEDIFF and DATEPART to remove mandatory quotes requirement for the first parameter.
CIS-96670	Fix for issues encountered while executing UPDATE statements on a Vertica data source with Table alias specified.
CIS-96695	Fix to improve Studio login delay when user is part of the Ldap domain group.

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Key	Summary
CIS-96742/CIS-97539	Fix for an intermittent ADO.NET connection failure.
CIS-96915	Fix for retaining the double quotes around the datasource path in the opt file.
CIS-96955	Fix to address a change in the published procedure type with an OUT parameter in TDV 8.3 which created functions instead of procedures in Cognos client.
CIS-97178	Fix for the permission issues seen in the shell script files when applying hotfix.
CIS-97269	Documentation fix with updated links to retrieve the driver for Oracle adapter.
CIS-97544	Fix to the site refresh operation in Business Directory.
CIS-97577	Fix for loading special characters from UTF-8 file when using Informatica data source.
CIS-97624	Fix to not default the ClientSystemUserID to "SYSTEM".
CIS-97663	Fix for performance issues while using nested loops.
CIS-98157	Fix to support ISNUMERIC() function like the SQL Server implementation
CIS-98290	Fix for a data corruption issue when a correlated scalar subquery is within a CASE expression.

TDV and Business Directory 8.4 Fixed Issues

The table below lists the issues fixed in TDV 8.4 release.

8.4 Fixed Issue	Summary
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.
CIS-92732	Fix for Thai language supported fonts not displaying correctly in Studio. Follow these steps to add the selected fonts to the Studio properties: <ol style="list-style-type: none"> 1. Set the font to Tahoma or a Thai-language supported font in Studio > Edit > Options > Default Font 2. Set the font to Tahoma or a Thai-language supported font in Studio >

(Continued)

8.4 Fixed Issue	Summary
	Edit > Editors > Font 3. Restart Studio.
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.

(Continued)

8.4 Fixed Issue	Summary
CIS-93431	Fix for the error message "unknown operator: \$query" while fetching data from Azure CosmosDB 3.6 using MongoDB adapter in TDV.
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>

(Continued)

8.4 Fixed Issue	Summary
	This issue has been fixed.
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.
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 8.3 Fixed Issues

This section lists the issues fixed in TDV 8.3 release.

8.3 Fixed Issue	Summary
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.
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,

(Continued)

8.3 Fixed Issue	Summary
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. Note: 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.

(Continued)

8.3 Fixed Issue	Summary
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.
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

(Continued)

8.3 Fixed Issue	Summary
	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.
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.

(Continued)

8.3 Fixed Issue	Summary
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.
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.

(Continued)

8.3 Fixed Issue	Summary
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

(Continued)

8.3 Fixed Issue	Summary
	REST calls and Oracle queries in UNIONS
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.

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TIBCO(R) Data Virtualization AWS Infrastructure License Restrictions

Following are the TDV offerings in the AWS Marketplace:

- TIBCO Data Virtualization for Windows (Hourly)
- TIBCO Data Virtualization for Windows (BYOL)
- TIBCO Data Virtualization for Red Hat Linux (BYOL)
- TIBCO Data Virtualization for Red Hat Linux (Hourly)

TIBCO Software provides 24x7, award-winning support services along with uninterrupted access to TIBCO Data Virtualization updates. This requires purchase of a support contract or a software subscription that includes support. Please refer to your maintenance terms for further details. <https://www.tibco.com/resources/terms-and-policies/tibco-maintenance-terms>

AWS Infrastructure

AWS Support is a one-on-one support channel that is staffed 24x7x365 with experienced support engineers. AWS Support offers four support plans: Basic, Developer, Business, and Enterprise. The Basic plan is free of charge and offers support for account and billing questions and service limit increases. The other plans offer an unlimited number of technical support cases with pay-by-the-month pricing and no long term contracts, providing the level of support that meets your needs. [Learn more](#)

Refund Policy

Refunds are not provided, but you can cancel at any time by terminating your instance and canceling the subscription on the Marketplace Portal.

TIBCO Documentation and Support Services

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

How to Access TIBCO Documentation

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

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

Product-Specific Documentation

Documentation for TIBCO® Data Virtualization is available on the [TIBCO® Data Virtualization Product Documentation](#) page.

The following documents for this product can be found in the TIBCO Documentation site:

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.

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 [TIBCO Data Virtualization Long-Term Support \(LTS\) Releases](#).

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