



TIBCO Data Virtualization®

Release Notes

*Version 8.3.1
Jan 2022*



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Update Instructions

Applying the Service Pack to TDV Server

Important bug fixes and additional functionality are added to TDV with each service pack.

Service packs 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 apply a service pack

1. Optionally, perform a full TDV backup. For details about backup export, see the *TDV Administration Guide*.
2. If installing on Windows, be sure to use Run as Administrator.
3. Stop the TDV Server process only.. You do not need to stop the TDV repository, TDV cache or TDV Business Directory repository processes for a service pack.
`composite.bat/sh monitor stop`
4. **If you are updating from 8.3** (For example, from 8.3 GA or 8.3 HF installation to 8.3.1), then jump to step 5.

If you are upgrading from an earlier TDV release (For example, from 8.2 GA or 8.2 HF installation to 8.3.1), then you will need to first upgrade to TDV 8.3. To do this, follow these steps:

- a. Stop all the TDV processes when upgrading from an earlier TDV release:

```
composite.bat/sh monitor stop (bd.bat/sh monitor stop)
composite.bat/sh repo stop (bd.bat/sh repo stop)
composite.bat/sh cache stop
```

- b. Apply the TDV 8.3.0 GA patch to your pre-8.3 installation and run the script given below, to then upgrade your products.

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
```

- c. Enter the repo and cache passwords when prompted.

| Product | Directory | Script |
|------------|-----------|----------------------------|
| TDV Server | bin | cis_upgrade_patch.<sh bat> |

5. Copy the TDV 8.3.1 service pack zip file (TDV Server) to <TDV_install_dir>.

6. Unzip the file.

7. 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.

8. Restart the TDV Server processes.

If you are updating from 8.3, and need to rollback the service pack that you just applied, refer to [To Rollback a Service Pack for TDV Server](#).

If you are upgrading from an earlier TDV release and need to downgrade the service pack that you just applied, refer to [To Downgrade a Service Pack for TDV Server](#).

Applying the Service Pack to Active Cluster

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 update 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 to node1.
8. Start up node 1, but do not 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. Apply the service pack to node 2.
12. Join node 1 and node 2 to the cluster.
13. Enable cache refreshes on both of the nodes.
14. Verify the cluster status.

To Rollback a Service Pack for TDV Server

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. Run the rollback script located in

```
<TDV_Install_Dir>/install/rollback_TIB_tdv_<product version>.<service  
pack number>_all.<bat|sh>
```

4. Navigate to <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.

5. 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.

To Downgrade a Service Pack for TDV Server

1. If downgrading on Windows, any open windows to the repository or jdk folder must be closed.
2. If your TDV products are running, stop them, including all processes and databases used as repositories or caches.

3. Stop the Monitor Daemon:

`composite.<bat|sh> monitor stop`

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

4. Follow these steps below only if you are downgrading the TDV Server:

- a. Start server process without monitor daemon:

`composite_server.bat/sh run)`

- b. Run the following command:

`server_util.bat/sh -server <id> -port <port> -user <uid> -password <password> -rollbackRepository -toVersion <version to downgrade to>`

Example: `bin/server_util.sh -server localhost -port 9400 -user admin -password admin1 -rollbackRepository -toVersion 8.3.0`

- c. Check the repository version after rollback:

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

##Replace the port number (9408) to your Repository port number, if needed.

- d. Navigate to `<install_dir>/install` dir and run the following command

`<install_dir>/install/rollback_TIB_tdv_<product>_<version>_all.<bat|sh>`

e. Stop repository and cache (windows only).

f. Run the command

```
cis_<product>_<version>_downgrade_patch.bat (CIS - windows) / cis_<product>_<version>_downgrade_patch.sh (CIS - UNIX)
```

5. Navigate to <install_dir> and reapply the last service pack or hotfix. After downgrade it is necessary to apply the downgraded version of service pack/hotfix before starting the server.
6. Restart the services.
7. Import backup CAR files as needed.
8. Optionally, redefine all your VCS roots and connections.

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.</p> |

Known Issues

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

| Key | Summary |
|-----------|--|
| CIS-68205 | Using the -set flag of the package_import utility, you can change the service principal name of the data source during import. The attribute “spn” lets you do this. In the Administration Guide Chapter “TDV Command Line Utilities”, Page 337, this attribute is not included in the description of the -set flag. |
| CIS-72953 | Occasionally a query might be in a “READY” state for a very long time when it is served by the MPP engine. In that case, you should try to cancel the request from TDV to the MPP Engine using the request panel in TDV Manager. |
| CIS-89633 | When pushed to ComputeDB data source, queries with aggregate function references in a HAVING clause may fail when a DISTINCT is also used. |
| CIS-90011 | While loading a table using the ComputeDB datasource, note that every column must be assigned a value. Provide an explicit "NULL" value when a column is empty. |
| CIS-90072 | The cursor position in some of the editors in TDV Studio may not be aligned properly. In that case, Go to “Settings->Display->Scale and layout->Advanced scaling settings” in your Windows machine and change the “Custom scaling” to 100%. |
| CIS-90254 | For a SQL Server data source, if the user has a named instance defined, it has to be appended to the host: <host>\<named instance> |
| CIS-90636 | Complex predicates are not supported when using the function get_json_object with no push option in a Tibco Streaming data source, . |

(Continued)

| Key | Summary |
|-----------|--|
| | Only a single index or a “*” pattern is supported. |
| CIS-90776 | When running TDV with a Docker container, Docker will manage the TDV Server process lifecycle, therefore the TDV Monitor Daemon will not be running inside the TDV container. |
| CIS-91021 | In order to introspect an empty schema, you must check the option “Detect New Resources During Re-Introspection” in the Data Source Introspection dialogue box. |
| CIS-91024 | For DST based adapters, in order to pass down ad-hoc JDBC properties to the underlying driver, you need to append the properties string to the connection url. For example: <pre>jdbc:streaming@http://dv-docker-5:10080/?client-info=dvstudio</pre> |
| CIS-91196 | Any parameter value for ComputedB functions that is larger than MAX_INT is going to have an overflow issue and return wrong results. |
| CIS-91417 | When running TDV within a docker instance, cs_csmonitor_server.log displays errors. This is because the monitor server is attempting to connect to a monitor daemon which does not exist in a docker environment. It is safe to ignore this error message. |
| CIS-91469 | When upgrading a Studio-only Install, follow these steps to update the properties files: <ol style="list-style-type: none"> 1. Open the studio.properties file suffixed with the highest version number from the TDV_INSTALL/conf/studio directory. 2. Copy the contents of the parameters version and server version 3. Open the un-versioned studio.properties file in the TDV_INSTALL/conf/studio directory and replace the contents of the above parameters with the new content copied from the versioned studio.properties file. 4. Open the studio bat file suffixed with the highest version number |

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| Key | Summary |
|-----------|---|
| | <p>from the TDV_INSTALL/bin directory.</p> <ol style="list-style-type: none"> Copy the contents of the parameters VM_ARGS, and the content of the “for loop” that is below the VM_args Open the un-versioned studio.bat file in the TDV_INSTALL/bin directory and replace the contents of the above parameters with the new content copied from the versioned studio.bat file. Remove the second set of VM_ARGS declaration after for loop. |
| CIS-91541 | <p>There has been some changes in the Installation process in TDV 8.3:</p> <ol style="list-style-type: none"> Users will no longer be required to enter the Unique Id and Password. The Unique Id and Password is no longer required in the Silent Installation. |
| CIS-91595 | While accessing the Swagger REST API doc endpoints with a stand alone session, if you encounter issues, clear the cookies and try again. |
| CIS-91600 | Studio's “Cursor Fetch Limit” overrides Tibco Streaming adapter’s row limit when executing Tibco Streaming tables directly in Studio. |
| CIS-91815 | <p>When downgrading TDV Server 8.3 to a lower version on windows, there are some errors seen in the server log file (for adapters Amazon DynamoDB and Oracle Eloqua). Follow these steps to Undeploy and Re-deploy the adapters:</p> <ol style="list-style-type: none"> After the downgrade, start the server and undeploy the following adapters manually: <pre>TDV_INSTALL_DIR>bin\server_util.bat -server localhost -port 9400 -user admin -password admin1 -domain composite -undeploy -name DynamoDB -version 1 -verbose Listening for transport dt_socket at address: 8005 Success</pre> <pre>TDV_INSTALL_DIR>bin\server_util.bat -server localhost -port 9400 -user admin -password admin1 -domain composite -undeploy -name Eloqua -version 1 -verbose Listening for</pre> |

(Continued)

| Key | Summary |
|-----------|--|
| | <pre>transport dt_socket at address: 8005 Success</pre> <p>2. Copy dynamodb.jar and eloqua.jar from tdv_install_dir/packages/archived_ds_adapters to tdv_install_dir/packages/autodeploy_ds_adapters and restart the server.</p> |
| 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 | Use of a column aliases in WITH clause parameters will result in an unknown column exception in the Redshift adapter. |
| CIS-91985 | <p>When the default font is set to a monospaced typeface, query result data values with “_” will not be displayed. To display the underscore character, change the default font to sans serif or a different typeface.</p> <p>Note: This occurs only in a Windows environment</p> |
| CIS-92003 | <p>When downgrading from TDV version 8.3 to a lower version, certain adapters need to be manually un-deployed. Execute these commands to manually un-deploy the 8.3 adapters, before performing the downgrade/rollback steps:</p> <p>Windows :</p> <pre>TDV_INSTALL_DIR>bin\server_util.bat -server localhost - port 9400 -user admin -password admin1 -domain composite -undeploy -name Splunk -version 1 -verbose Listening for transport dt_socket at address: 8005 Success</pre> <pre>TDV_INSTALL_DIR>bin\server_util.bat -server localhost - port 9400 -user admin -password admin1 -domain composite -undeploy -name MarkLogic -version 1 -verbose Listening for transport dt_socket at address: 8005 Success</pre> <pre>TDV_INSTALL_DIR>bin\server_util.bat -server localhost - port 9400 -user admin -password admin1 -domain composite -undeploy -name TibcoStreaming -version 1 -verbose</pre> |

(Continued)

| Key | Summary |
|-----------|---|
| | <pre>Listening for transport dt_socket at address: 8005 CRLF expected at end of chunk TDV_INSTALL_DIR>bin\server_util.bat -server localhost - port 9400 -user admin -password admin1 -domain composite -undeploy -name CosmosDB -version 1 -verbose Listening for transport dt_socket at address: 8005 Success</pre> <p>Linux/AIX:</p> <pre>bash-4.2\$ bin/server_util.sh -server localhost -port 8400 -user admin -password admin1 -domain composite - undeploy -name Splunk -version 1 Listening for transport dt_socket at address: 8005 Success bash-4.2\$ bin/server_util.sh -server localhost -port 8400 -user admin -password admin1 -domain composite - undeploy -name CosmosDB -version 1 Listening for transport dt_socket at address: 8005 Success bash-4.2\$ bin/server_util.sh -server localhost -port 8400 -user admin -password admin1 -domain composite - undeploy -name MarkLogic -version 1 Listening for transport dt_socket at address: 8005 Success bash-4.2\$ bin/server_util.sh -server localhost -port 8400 -user admin -password admin1-domain composite - undeploy -name TibcoStreaming -version 1 Listening for transport dt_socket at address: 8005 Success</pre> |
| CIS-92099 | <p>When undeploying Amazon DynamoDB and Oracle Eloqua adapters manually, old adapter names must be used. Use the command to undeploy:</p> <p>Windows:</p> <pre>server_util.bat -server localhost -port 9400 -user admin -password admin1 -domain composite -undeploy -name DynamoDB -version 1 -verbose</pre> |

(Continued)

| Key | Summary |
|---------------------|--|
| | <pre>server_util.bat -server localhost -port 9400 -user admin -password admin1 -domain composite -undeploy -name Eloqua -version 1 -verbose</pre> <p>Linux/AIX:</p> <pre>bin\server_util.sh -server localhost -port 9400 -user admin -password admin1 -domain composite -undeploy -name DynamoDB -version 1 -verbose</pre> <pre>bin\server_util.sh -server localhost -port 9400 -user admin -password admin1 -domain composite -undeploy -name Eloqua -version 1 -verbose</pre> |
| CIS-92186 | Cannot run driverConfig with -installDriver and -configDsn at the same time. Must run two separate times for each option. |
| CIS-92261/CIS-91624 | When downgrading to an older version of TDV, any adapter created using newer versions of adapters may be visible, but will not be functional. This can also sometimes apply to adapter types that are visible in the datasource creation dialog. This is an issue in Linux/AIX platforms only. |
| CIS-92386 | When a car file is imported with VCS connection and roots, you need to detach and reattach the VCS roots before performing any VCS operation on it. |
| CIS-92396 | <p>TDV Server and TDV Business Directory installations on the Windows platform may experience a failure during installation, related to the vcredist.exe software. The VC++ redistributable software from Microsoft is required by the TDV Server on the windows platform. As a result, if you run into this issue, follow these steps to fix it before attempting another TDV Server installation.</p> <ol style="list-style-type: none"> 1. Stop your TDV Server or TDV Business Directory installation. 2. Make sure there are no “vcredist” processes running in “Task Manager”. 3. Make sure your system has no software updates going on for VC++ |

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| Key | Summary |
|-----------|--|
| | <p>Redistributable packages. If there are, then let it complete and possibly reboot your instance to make sure it is done.</p> <p>4. Download “Microsoft Visual C++ 2013 Redistributable (x64) - 12.0.40660” from https://support.microsoft.com/en-us/help/3179560/update-for-visual-c-2013-and-visual-c-redistributable-package.</p> <p>5. Open a cmd.exe with “Run As Administrator” privilege.</p> <p>6. Run the following command:</p> <pre>vcredist_x64.exe /install /passive /norestart</pre> <p>7. On Windows, open “Add & Remove Programs”. Then search for “Microsoft Visual C++”. You should now see a 2013 entry.</p> <p>8. Rerun the TDV Server or TDV Business Directory installation.</p> |
| CIS-92402 | The alternateSecurityCredentials property map that is used to pass down the OAuthAccessTokenProperty will not be processed accurately using the PowerBI data connector. |
| CIS-92451 | When a car file is imported into Studio with VCS roots and connections, the existing resources in Studio that were not imported may show in TDV as checked-in. In this case, user will have to detach and reattach using CIS as baseline to push resources to repository or Pull from remote repository to overwrite resources in studio. |
| CIS-92503 | When a full backup car file, containing Ldap domain users is imported with the ignoreEncryption option, the Ldap domain and the users will not be imported. |
| CIS-92593 | When a VCS connection is created and then deleted, you may notice that creating another connection and saving it with the same name may cause the connection to revert back to the previous vcs user credentials. This is a known issue. The workaround is to create a VCS connection with a different name. |

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| Key | Summary |
|-----------|--|
| CIS-92617 | <p>The pre-installed version of TDV Server on the AWS marketplace is available on the following Operating systems:</p> <ul style="list-style-type: none"> • Windows Server 2019 Version 1809 (OS Build 17763/1098) • Red Hat Enterprise Linux Server release 7.8 (Maipo) 3.10.0-1127.13.1.el7.x86_64 <p>Note: The RHEL version for AWS and Azure is incorrect in the Installation Guide.</p> |
| CIS-92632 | <p>If you require the published Web Service to support SAML security policy for the TDV 8.3 Server then the following manual changes will be required.</p> <p>Not using the TDV Monitor Daemon (i.e. <code>composite_server.sh</code> or <code>composite_server.bat</code>):</p> <p>This affects the TDV 8.3 Server (installer) and TDV 8.3 Server (patch upgrade from pre 8.3 installer)</p> <p><u>Linux/AIX</u></p> <ol style="list-style-type: none"> 1. In the JAVA_OPTS definition add an entry to the two files: <pre>#1 <TDV_INSTALL_DIR>/bin/composite_server.sh</pre> <pre>#2 <TDV_INSTALL_DIR>/bin/composite_server.sh-080300001.cfgt</pre> <p>FIND: -Dzookeeper.admin.enableServer=false</p> <p>CHANGE TO: -Dzookeeper.admin.enableServer=false</p> <pre>-Dcom.sun.org.apache.xml.internal.security.resource.config=resource/config.xml</pre> 2. Restart the TDV Server with <code>composite_server.sh</code> <p><u>Windows</u></p> <ol style="list-style-type: none"> 1. In the JAVA_OPTS definition add an entry to the two files: <pre>#1 <TDV_INSTALL_DIR>\bin\composite_server.bat</pre> |

(Continued)

| Key | Summary |
|-----------|--|
| | <p>#2 <TDV_INSTALL_DIR>\bin\composite_server.bat-080300001.cfgt</p> <p>FIND: -Dzookeeper.admin.enableServer=false</p> <p>CHANGE TO: -Dzookeeper.admin.enableServer=false</p> <p>-Dcom.sun.org.apache.xml.internal.security.resource.config=resource/config.xml</p> <p>2. Restart the TDV Server to regenerate composite_server.bat</p> <p>Using TDV Monitor Daemon (i.e. composite.sh/composite.bat or windows service)</p> <p>This affects 8.3 patch upgrades of pre 8.3 Server installers. 8.3 installer is not affected.</p> <p><u>Linux/AIX/Windows:</u></p> <p>1. Restart the TDV Server using the TDV Monitor Daemon or Windows Service</p> |
| CIS-92637 | If a domain was added when a node is down, restarting the node does not sync domains from other nodes of the Cluster. When this happens, removing the node from cluster and rejoining the cluster will sync all domains in the joining node. |
| CIS-92650 | The ability to manually change the server encryption key has been removed. A random encryption key is still automatically generated during server installation. |

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. |

(Continued)

| 8.3 Fixed Issue | Summary |
|------------------------|--|
| CIS-88842 | Documentation fix to indicate write access requirement at the directory level when running command line utilities. |
| CIS-88992 | New System events added for User Login and Table Create. |
| CIS-89124 | Fix for ADO.Net driver compatibility issues with Net Core application. |
| 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 |

(Continued)

| 8.3 Fixed Issue | Summary |
|-----------------|--|
| | datasource using Kerberos passthrough. |
| CIS-89887 | Fix for unexpected shutdown of Excel when the option “Return Data to Microsoft Excel” is selected. |
| CIS-89897 | Fix to the Amazon Redshift adapter to push WITH clause down to the datasource. |
| CIS-89903 | Update to the request status to indicate Closure message from the server. |
| CIS-89946 | Fix for successful import of web services from TDV versions 7.x to 8.x |
| CIS-89998 | Fix for integer column introspection for SharePoint 2013 driver. |
| CIS-90030 | Fix to the designProcedureByExample API to execute successfully against procedures without OUT parameters. |
| 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. |

(Continued)

| 8.3 Fixed Issue | Summary |
|------------------------|---|
| CIS-90188 | Fix for incorrect alias in the FETCH node SQL. |
| CIS-90193 | Fix for duplicate alias names. |
| CIS-90226 | Fix to not import the any of the connection information (including the httpLocation) of a datasource, if the information was not included when exporting it through Studio or the pkg_export command line utility. |
| CIS-90288 | Fix for the cachekey overflow calculation resulting in negative cachekey values. |
| CIS-90362 | Fix for the Snowflake adapter SQL parser. |
| CIS-90575 | There is a new server config option “Require Grant Privilege” to control whether or not the GRANT privilege is required in order to copy/export sensitive information, such as passwords. Note that the default value for this option is FALSE. |
| CIS-90580 | Fix for encrypting passwords with length greater than 15 characters. |
| CIS-90610 | Fix to the MPP Query Engine Null pointer exception when querying against kerberised DB2 datasources. |
| CIS-90634 | Fix for the ClassCastException after TDV upgrade from 7.0.6 to 8.2. |
| CIS-90846 | Fix to update SVN repository appropriately when checking in a deleted folder. |
| 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 |

(Continued)

| 8.3 Fixed Issue | Summary |
|-----------------|---|
| | using a csv data source. |
| CIS-91258 | Fix to Power BI to retain null value when loading data from TDV. |
| CIS-91384 | Fix for the Google BigQuery Adapter timeout issues. |
| CIS-91391 | Fix for connection to Sharepoint Excel services when REST API is disabled. |
| CIS-91426 | Fix for blank cells resulting in wrong column datatype introspected in the POI data source. |
| CIS-91508 | Fix for the calculation of execution times. |
| CIS-91596 | Fix for connectivity error between TDV and JMS. |
| CIS-91650 | Fix for the display of RBS icon on a resource to a user with read privilege.. |
| CIS-91692 | Fix for generating access token when using Microsoft Graph API. |
| CIS-91746 | Fix for the Elasticsearch adapter - error during query execution. |
| CIS-91758 | Fix to the Sharepoint ExcelServices adapter for the error “index 1 out of bounds for length 1”. |
| CIS-91796 | Fix for queries with HAVING clause to be pushed down successfully to Teradata datasource. |
| CIS-91799 | Fix to the ODBC Driver causing garbled Japanese characters while connecting to TDV. |
| CIS-91842 | Fix for exporting individual published operation. |
| CIS-91845 | Fix to the updateResourcePrivileges API to restrict altering privileges of system resources. |

(Continued)

| 8.3 Fixed Issue | Summary |
|-----------------|--|
| CIS-91852 | Fix for the deadlock issue when running a published view containing 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. |
| CIS-93167 | Fix for issues related to queries using GROUP BY on top of JOINS. In particular, these issues have been addressed: 1. Query compilation errors of the form: java.lang.IllegalStateException: Could not find position for selectable max(DWL_COMPANY.COMPANY_DESC). 2. Query compilation errors of the form: java.lang.IllegalStateException: This method is not supported for a value of type DECIMAL. 3. Wrong results returned by COUNT(column) aggregates |
| CIS-92695 | Fix for "Unknown Exception:NULL" error when a view is opened in TDV Studio while another view containing a UNION is already open. |
| CIS-92966 | Fix for missing TDV JDBC client drivers and files under apps/jdbc. |
| CIS-93084 | Fix to address an exception that may occur and block the internal TDV garbage collection job if a node is part of a cluster and the cluster does not start before the garbage collection job is started. |
| CIS-93269 | Fix for displaying Japanese characters. Some Japanese characters cannot be displayed with the Shift-JIS character set. The CP932 character set, which is an extended variant of Shift-JIS, was added to File-type data sources in TDV. To take advantage of this character set, the data source must be set with the |

(Continued)

| 8.3 Fixed Issue | Summary |
|--|---|
| | CP932 character set and the files must be removed, re-added, and introspected. |
| CIS-92988 | Fix for NullPointerException errors encountered during compilation of queries using GROUP BY clauses on top of UNIONS that project aggregate functions with function parameters. |
| CIS-93093 | Fix for errors encountered when certain reserved words from Studio were used in a procedure without enclosing them in quotes. The following words will no longer be reserved words in Studio: HOST, PORT, TRANSACTIONS, CLUSTER, STORED, SUPPORTING, AVRO, JSON, ORC, BUCKETS, RCFILE, SEQUENCEFILE, PARQUET. |
| CIS-93272 | Fix for "java.lang.UnsatisfiedLinkError" exception when using the JdbcSample.bat script with the "-encrypt" option. |
| CIS-93300 | Fix for issues with WSDL datasources when migrating from an earlier version of TDV to TDV 8.x. |
| CIS-93326 | Fix to include TDV resource paths (url) in the XMLQuery function in addition to the file paths that were allowed earlier. |
| CIS-93336 | Fix to update policy allocation in TDV Web manager when relocating resources having Column Based Security using the pkg_import utility. |
| CIS-93370 | Fix to allow the '\$' character in the LDAP domain user names. |
| CIS-93586 | Query optimizer improvements to perform cardinality estimation on query operators and query columns when statistics on the underlying query tables are available, thereby facilitating choice of suitable algorithms for the implementation of runtime operators. |
| CIS-93896, CIS-93517, CIS-93556, | Connection to TDV 8.3 ODBC driver failure when using unixODBC driver manager has been fixed. Note that TDV ODBC driver cannot be used directly and must be used with driver manager in the dbLink configuration. To fix |

(Continued)

| 8.3 Fixed Issue | Summary |
|---|---|
| CIS-93563, CIS-93181, CIS-93835, CIS-93229 | <p>these issues, unixODBC Driver Manager is now supported on Linux platforms: The following configuration is needed for using TDV ODBC driver with unixODBC Driver Manager:</p> <p>Environment variable TDV_ODBC_UODBC should be set to TRUE for the applications that use TDV ODBC Driver</p> <p>Example: set TDV_ODBC_UODBC=TRUE</p> |
| CIS-93899, CIS-93846, CIS-93864, CIS-93907 | <p>Connection to TDV 8.3 ODBC driver failure when using DataDirect driver manager has been fixed. To fix these issues, DataDirect Driver Manager(v8.0) is now supported on Linux platforms. There is no extra configuration needed for using TDV ODBC driver with DataDirect Driver Manager.</p> |
| CIS-71664 | <p>Flash is being de-supported by all major browsers. The Web Monitor is being deprecated due to this. 3 graphs (Memory, I/O, and Storage) in Web Manager are affected by this. To see those graphs, use Manager within Studio.</p> |
| CIS-91707 | <p>There were incorrect references to policy paths in a Row Based Security policy group in Web Manager when the policy location was changed. The policy group holds the references to the policies, but the references were not updated when the policy location changed. This issue has been fixed.</p> |
| CIS-91799 | <p>Japanese characters not displayed correctly when connecting to TDV using the TDV 8.2 ODBC driver. This has been fixed. A new driver option 'treatCharAsUnicode'(to be used in ODBC.INI) is added. The default value is 'false'. Some applications need this to be set to 'True' for ASCII to be treated as unicode characters.</p> <p>Note: This works in Visual Studio 2012 32 or 64bit, and in MS Excel 2016 32 or 64bit. It DOES NOT work in lower versions of Excel than 2016 and when using MS QUERY for ODBC.</p> |
| CIS-93146 | <p>When an ODBC DSN is created with a user whose password exceeds 15 characters, testing the connection gave a "security decryption error". This affected the TDV 8.3.0 ODBC driver only. This issue has been fixed.</p> |

(Continued)

| 8.3 Fixed Issue | Summary |
|-------------------------|---|
| CIS-93263 | TDV 8.3 ODBC Driver failed to pull DV published data in Visual Studio 2012. The following error message was encountered - "ERROR [IM002][Microsoft][ODBC Driver Manager] Data source name not found and no default driver specified". This has been fixed. |
| CIS-93375, CIS-93527 | Execution plans were de-optimized when using TDV 8.3 ODBC driver to connect. To fix this, the properties "Ignore Trailing Spaces" and "Case Sensitive" have been changed from checkbox to a dropdown with 3 possible values[<EMPTY>, false, true] in the Windows' DSN Editor UI. |
| CIS-93529 | When using MSAccess to connect to TDV using ODBC driver, the following error was encountered - "ODBC Call Fail - Byte buffer is empty (#1000)" . This issue has been fixed. |
| CIS-93700 | When connecting to the TDV server through TDV ODBC 8.2 driver using the LDAP user, the connection fails if the LDAP user password contains a special character like 'ß'. This has been fixed. |
| CIS-93829 | Timestamp fields appeared in MS Access as "Short Text" instead of "Date/Time". This occurred in the 8.3 ODBC driver. This has been fixed. |
| CIS-93945 | When migrating Microsoft Excel (non-ODBC) as a single datasource or part of a full server backup, if 'createCachingTables' option is checked and the source path is not present on the destination server being imported to, the import will fail with an error like "The file root path "C:\..." is an invalid path or does not exist in the data source "/shared/..." [excel_poi-1900023]. This issue has been fixed. |
| CIS-93963 | When using MS Access, after selecting the DSN created with the TDV 8.3.0 ODBC driver and the underlying table, opening the table displayed the error: "error.DIAG [IM002] [Microsoft][ODBC Driver Manager] Data source name not found and no default driver specified (0)". This has been fixed. |
| CIS-93997 | When querying a table that has a column with NULL data, Access application would shut down. This has been fixed. |

(Continued)

| 8.3 Fixed Issue | Summary |
|-------------------------|--|
| CIS-94051 | When a node is removed from the cluster it can no longer use the cached data managed by the cluster. Instead, it needs to load its own cached data. If cache refreshes have been disabled on that node, then it will not be able to serve queries that rely on cached resources (e.g. views, tables). A NullPointerException that occurred when this issue was encountered is now fixed. The server will now throw an exception indicating that cache refresh has been disabled. |
| CIS-94054 | In some cases, TDV would send an SQL query that contained duplicate predicates to a database. This issue has been fixed. |
| CIS-94580 | In some situations, you may get an exception when using MAX/MIN/SUM (literal) aggregates. The exception may be similar to this: "The integer value 1,121 cannot be cast because it is outside the required range of 0 to 0". This issue has been fixed. |
| CIS-94221 | Setting the statistics gathering option for a specific column may not work correctly if the column names share the same prefix. This issue has been fixed. |
| CIS-94109 | Aliases with non alphanumeric characters or length longer than 30 can sometimes be mangled. This issue has been fixed. |
| CIS-94105 | In Studio, a scroll up/down button is not available for the list of functions that are displayed when you right click on the columns in the Grid tab of the Views and hover over a Function that has a long list such as Date. This issue has been fixed. |
| CIS-93899, CIS-93864 | Connection to TDV 8.3 ODBC driver failure when using DataDirect driver manager has been fixed. To fix the above issues, DataDirect Driver Manager (v8.0) is now supported on Linux platforms. There is no extra configuration needed for using TDV ODBC driver with DataDirect Driver Manager. |
| CIS-93742 | The NullPointerException received while making update statements in KPI metrics_resources_usage table has been fixed. |

(Continued)

| 8.3 Fixed Issue | Summary |
|-----------------|---|
| CIS-92732 | <p>Thai language supported fonts do not display correctly in Studio. This issue has been fixed. Follow these steps to add the selected fonts to the Studio properties:</p> <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 > Edit > Editors > Font 3. Restart Studio. |
| CIS-92692 | <p>Extra null elements in the HTTP/JSON response from a published REST web service in TDV has been removed.</p> |
| CIS-72933 | <p>A fix has been added to display a descriptive database error from the underlying TDV drivers to the end user.</p> |
| CIS-89814 | <p>Running <code>"/bin/repo_util -dropSchema"</code> removed all the packaged adapters and deleted them from the <code>/packages</code> directory in Studio's resource tree. This fix will redeploy the adapters upon startup of the TDV server.</p> |
| CIS-92592 | <p>Sometimes users encounter an exception similar to this in the <code>cs_server.log</code>: <code>"could not write block 7619973 of temporary file: No space left on device [repository-2900112]"</code>. To fix this, a new configuration option has been added - Administration > Configuration > Server > Configuration > Debug > Metadata > Garbage Batch Size.</p> <p>The default value is to 0 (no change from current functionality). When set to a value greater than 0, the server will perform garbage collection on the metadata table <code>"security_privileges"</code> in batches of size no greater than the specified size.</p> |
| CIS-92783 | <p>Error encountered while transforming SOAP data into relational data has been fixed.</p> |
| CIS-92967 | <p>Custom data types in Microsoft SQL Server can now be recognized across different schemas.</p> |

(Continued)

| 8.3 Fixed Issue | Summary |
|-----------------|--|
| CIS-93496 | Issues encountered while generating aliases in SQL Server query has been fixed. |
| CIS-93690 | A fix has been added to allow the UPSERT function to update the records in Salesforce via TDV. |
| CIS-93818 | Some comparison operations on date columns would throw a NullPointerException. This has been fixed. |
| CIS-93994 | Groups with same name but from a different domain could not be added in WLM rule. This has been fixed. |
| CIS-94127 | XML-HTTP data source now supports HTTPS over HTTP proxy. |
| CIS-94188 | A fix has been added to restrict the ability to change the owner of system resources. |
| CIS-94216 | When FORMAT_DATE was sent to some data sources, the following exception was being thrown - "Cause: class com.compositesw.cdms.services.parser.BinaryFunction cannot be cast to class com.compositesw.cdms.services.parser.Literal (com.compositesw.cdms.services.parser.BinaryFunction)". This has been fixed. |
| CIS-94220 | Support has been added for introspection of stored procedures and multiple databases for MySQL. |
| CIS-94240 | When a REST data source operation was executed, the response payload was not streaming and could cause an OutOfMemoryError. This has been fixed. |
| CIS-94310 | When "OFFSET 0" was specified in a query, it was preventing FETCH to be pushed to the data source to limit rows. This has been fixed. |
| CIS-94412 | Issue in Concurrency for handling statements in the ODBC driver has been fixed. |

(Continued)

| 8.3 Fixed Issue | Summary |
|---------------------------------------|--|
| CIS-94506 | When a NVARCHAR was CAST to a VARCHAR, the CAST was being removed, which could de-optimize the execution plan. This has been fixed. |
| CIS-94507 | Using certain special characters in PIVOT column names was causing incorrect alias names to be generated in an execution plan. This has been fixed. |
| CIS-94634, CIS-95074, CIS-94800 | Some issues were encountered in the ODBC API Call SQLGetData(). It has been fixed. |
| CIS-94804 | When an LDAP user definition contains a backslash (\), it would be escaped twice (\\) in the search string and the user could not be found. This has been fixed. |
| CIS-95010 | In the ODBC Driver Configuration, the value set for the Enable Flood flag was not saved. The UI has been fixed for this. |
| CIS-95031 | Issues in exception handling while executing SQL Script procedures has been fixed. |
| CIS-95059, CIS-95275 | While executing queries with a nested SELECT query containing a UNION with an ORDER BY clause containing a function, a NullPointerException may have been encountered. This has been fixed. |
| CIS-95092 | An invalid table reference was generated in the SQL sent to a data source when a NULL branch was eliminated, resulting in the exception: Unable to retrieve result from data source "...". during query execution. Failed query: "...". Cause: ERROR: relation "..." does not exist. This has been fixed. |
| CIS-95094 | Pagination in Netezza is now supported using Netezza's LIMIT and OFFSET clauses. |

(Continued)

| 8.3 Fixed Issue | Summary |
|-----------------|--|
| CIS-95142 | When an ODBC DSN was created with a user whose password contains special characters (;,.,*), testing the connection prompts "Invalid login attempt" error. This has been fixed. |
| CIS-95173 | When using "Design By Example" for a Stored Procedure to get its definition, if a parameter was manually removed and the Stored Procedure was re-introspected, a second duplicate parameter was being added. This has been fixed. |
| CIS-95334 | When attempting to limit the number of rows returned from a Composite data source table, and the request included an ORDER BY clause, the following error was encountered - Datasource is not capable of handling the function ROW_NUMBER. This has been fixed. |
| CIS-95396 | When using the "+" operator on DATE types, the following exception was being thrown when the query was executed: "Cause: java.lang.IllegalStateException: Unable to find position for column". This has been fixed. |
| CIS-95405 | TDV Server now allows the use of SPLIT/SPLIT_PART string functions against TDV MySql and Postgres data sources. Tableau clients using the TDV ODBC driver can use those functions via the Custom SQL interface. |
| CIS-89286 | When saving a resource in Studio that had an annotation, new lines and tabs were being removed. This has been fixed. |
| CIS-92100 | When using a client to view results from TDV, the query may hang if "fetch size" is set. To avoid this issue, two new Studio configurations are available. Studio > Administration > Configuration > Server > Client Drivers > Communications > Write Timeout Window - Set this value to 0 to avoid the client timeout. Studio > Administration > Configuration > Server > Client Drivers > Performance > Flood Optimization - Set this value to False to disable the Flood protocol, which can cause clients to disconnect. |

(Continued)

| 8.3 Fixed Issue | Summary |
|-----------------|---|
| CIS-93348 | Explain plans from JDBC clients or Scratchpad in Studio showed execution times as 0. This has been fixed. |
| CIS-93530 | ODBC TDV clients could sporadically receive "Connection reset by peer" messages. This has been fixed. |
| CIS-95143 | Added MySQL to the list of data sources that query hints can be pushed to if enabled. To enable, set this configuration to True: Studio > Administration > Configuration > Data Sources > Oracle Sources > Push Oracle/Vertica/MySQL query hints. |
| CIS-95275 | While executing queries, when you have a nested SELECT query containing a UNION with an ORDER BY clause containing a function, you may encounter a Null Pointer Exception. This has been fixed. |
| CIS-95413 | If the published web service contains "/" in the data, the JSON data from REST converts it to "\". A new Studio setting has been added to configure this functionality - Studio > Administration > Configuration > Server > Web Services Interface > REST > Escape Forward Slash. In JSON String, set this configuration to False to avoid escaping a forward slash. |
| CIS-95532 | Cache target table DDL would truncate column names greater than 28 characters. This restriction has been removed. |
| CIS-95619 | TDV does not (or is slow to) throw an error to a JDBC client when a query is terminated from the database side. This has been fixed. Note that the new TDV JDBC driver must be used for this fix. It is available after applying the hotfix in the "<TDV_install>/apps/jdbc/lib" directory. |
| CIS-95629 | Composite DDL using Composite DDL "CREATE TABLE AS SELECT... (CTAS)" for Snowflake would create CHAR(N) columns as VARCHAR(1). This has been fixed. Note that for 8.3 hotfixes (HF8 or above), you will need to request a |

(Continued)

| 8.3 Fixed Issue | Summary |
|-----------------|--|
| | <p>Snowflake adapter fix for this issue since it is not part of the standard TDV Server hotfix.</p> <p>The 8.4 adapter distribution (e.g. TDV_adapters_080400_HF-002_all.zip) contains the updated adapter.</p> |
| CIS-95649 | <p>ODBC Windows driver closes the connection when returning CLOB values that exceed 16000 characters. This has been fixed.</p> |
| CIS-95650 | <p>An error "Invalid expression: unexpected token" is encountered in input parameter settings in view when created on Japanese Windows machine. This has been fixed.</p> |
| CIS-95706 | <p>When getting a count of records returned in a view that contains UNION, you may get an error similar to "Remove ambiguous column names or provide appropriate aliases". This has been fixed.</p> |
| CIS-95788 | <p>When displaying the Lineage tree for some tables, TDV Studio throws an error message "Unknown Exception" or "Member 'subtype' is null". This has been fixed.</p> |
| CIS-95789 | <p>When using RTRIM in a predicate, you may receive a NullPointerException. This has been fixed.</p> |
| CIS-95926 | <p>When using ISNULL in Composite DDL "CREATE TABLE AS SELECT... (CTAS)" statement for a DECIMAL column, a NullPointerException was thrown. This has been fixed.</p> |
| CIS-95930 | <p>If TDV has been upgraded from a prior version, the Published REST Web Service panel would show the base installed version instead of the current version. This has been fixed.</p> |
| CIS-95932 | <p>When using the DATE functions in Composite DDL "CREATE TABLE AS SELECT... (CTAS)" statements, the SQL executed through TDV fails with an error message</p> <pre>com.compositesw.cdms.services.parser.ParserException: Invalid</pre> |

(Continued)

| 8.3 Fixed Issue | Summary |
|-----------------|---|
| | column name 'DD'. This has been fixed. |
| CIS-95940 | The use of SWAP_ORDER and SEMI-JOIN query hints (under certain scenarios) causes the execution plan to throw a NullPointerException. This has been fixed. |
| CIS-95956 | When using functions like LEFT and RIGHT in a Composite DDL "CREATE TABLE AS SELECT... (CTAS)" statement, the column size was being set to LONG VARCHAR. The original column size from the SELECT statement will now be used. |
| CIS-88317 | After re-introspection, data in TDV not in sync with any RFC changes made in the SAP database. To fix this, a button "Clear Metadata Cache" has been added. Use this to clear the cache and then re-introspect the data source to apply the RFC changes. |
| CIS-92998 | Changing the owner of the hidden folder '/deployment' recursively using Admin API 'changeResourceOwner' failed with the below error: "-10006" is not a known resource subtype". This has been fixed. |
| CIS-93950 | When the TDV Server is restarted and Studio is open, after re-authenticating, the panels on the Manager tab would not refresh but would show old data. Closing and reopening Studio would resolve this issue. This has been fixed, and re-authentication will now cause the panels to refresh their data. |
| CIS-94510 | Fixed the TDV Studio view builder issue with joins |
| CIS-94763 | Automatic synchronization of user groups at login can now be tuned by a new UI option "Auto", while creating an LDAP Domain. |
| CIS-95826 | Continuous logging was observed in cs_server.log for "QuorumPeer" in some situations when the server was in a cluster that had Parallelization enabled. This has been fixed. |
| CIS-96012 | TDV passthrough queries to Snowflake using DISTINCT and TOP fail with a |

(Continued)

| 8.3 Fixed Issue | Summary |
|-----------------|---|
| | <p>Snowflake SQL syntax exception. After applying this hotfix this issue can be resolved by doing one of the following:</p> <ol style="list-style-type: none"> 1. Insert the following YAML fragment under the clause_support section in the text definition of the Snowflake adapter within Studio limit.clause: display_name: LIMIT native_expression: LIMIT 2. Deploy the CData Snowflake adapter that includes this change. |
| CIS-96015 | When using the ADO.NET driver in Spotfire to connect to TDV, connection to TDV is broken when canceling an in-progress operation, and Spotfire must be restarted to re-connect. This has been fixed. |
| CIS-96042 | The "-relocate" flag in pkg_import.sh is not mapping paths when the paths are inside CREATE INDEX statements. This has been fixed. |
| CIS-96099 | When executing a TDV REST Web Service using the POST method which takes an XML input in the body, only the first element of the result will be returned. This has been fixed. |
| CIS-96120 | INTERVAL capabilities has been added for Apache Hive 2.1 Datasource. |
| CIS-96124 | Explain plans from JDBC clients or Scratchpad in Studio showed execution times as 0. This has been fixed. |
| CIS-96183 | Queries that involved GROUP BY operators over JOINS and made use of the NVL function - or other NULL converting functions - could lead to wrong results if during execution pre-aggregation was applied before the join. |
| CIS-96190 | The SYS_CACHE table would retain the Periodic schedule of the Refresh Mode when the mode was changed to Manual or Exactly Once. This has been fixed. |
| CIS-96242 | When a cached view contains a scalar subquery, the results are not as expected. This issue has been fixed. |
| CIS-96287 | In Studio Configuration, changing the "Data Directory (On Server Restart)" |

(Continued)

| 8.3 Fixed Issue | Summary |
|-----------------|---|
| | <p>location would throw this error message if the directory existed.</p> <p>"The value <new directory> of attribute '/server/config/files/dataDirectoryOnServerRestart' is not allowed."</p> <p>After the fix, an error will be thrown only if the chosen directory is a file. It will work for an existing directory (empty or otherwise) without any issue. In case the specified directory doesn't already exist, it will create one. The error message has now been updated, and the Description for the configuration also mentions this rule.</p> |
| CIS-96292 | Semi Join issues fixed. |
| CIS-96331 | You may receive a NullPointerException if you try to import a Full Server Backup on the command line using backup_import.bat/sh if the FSB contains many millions of security privileges. The import will then fail. This has been fixed. |
| CIS-96467 | TDV Server startup could be very slow if there are many millions of security privileges to load at startup. This has been fixed. |
| CIS-96558 | DATEADD function implementation has been modified to remove the mandatory requirement to include quotes for the first parameter. |
| CIS-96599 | Fixed issues in reintrospection of cache tables after they were created. |
| CIS-96621 | While refreshing cache, the start time displayed was incorrect. This issue has been fixed. |
| CIS-96641 | Issues in retrieving results from a DB2 z/OS datasource has been fixed. |
| CIS-96670 | The UPDATE statement now allows a table alias. |
| CIS-96674 | Fixed NullPointerException in SAP BW and SAP BW BEx adapters. |

(Continued)

| 8.3 Fixed Issue | Summary |
|-----------------|---|
| CIS-96683 | Allow isolation level "None" for the Composite data source. |
| CIS-96695 | Fixed to improve Studio login delay when user is part of the Ldap domain group. |
| CIS-96729 | Fixed issue when DELETE statement contains a IN subquery that contains a DATE predicate. |
| CIS-96746 | <p>Introspection of resources for Microsoft Excel (Non-ODBC) datasource failed with following error:</p> <pre>Failed to introspectable children of '~\$ICE_Data_Sources.xlsx' org.apache.poi.openxml4j.exceptions.NotOfficeXmlFileException: No valid entries or contents found, this is not a valid OOXML (Office Open XML) file</pre> <p>This has been fixed.</p> |
| CIS-96841 | Fixed a NullPointerException encountered when executing a query with ABS function. |
| CIS-96922 | Enhancement to make a configuration to expose the SNMP receive package size setting. |
| CIS-96923 | Duplicate predicates were not pushed to subquery. This issue has been fixed. |
| CIS-96955 | <p>Introduced a new *boolean* server configuration in Server > Configuration > Debugging > Metadata > Report Legacy Procedure Types</p> <p>By default, "false" is set to this config. When "false", the server will indicate if procedure returns result or not.</p> <p>'1' indicates procedure does not return result. '2' indicates procedure returns result.</p> <p>When "true", the legacy procedure type "1" will be set so procedure_type will be set as '1'.</p> <p>If this value is changed, published procedures must be re-published or re-imported with Overwrite, to see the changes reflected in ALL_PROCEDURES.procedure_type column.</p> |

(Continued)

| 8.3 Fixed Issue | Summary |
|-----------------|--|
| CIS-96960 | <p>When attempting to retrieve the data from MS Excel 2016 using TDV ODBC driver, the following error was encountered:</p> <p>Error: [BOT]Found error "Attempted to read or write protected memory"</p> <p>This issue was fixed.</p> |

TDV and Business Directory 8.2 Fixed Issues

This section lists the issues fixed in the TDV release 8.2.

| 8.2 Fixed Issue | Summary |
|-----------------|---|
| CIS-63791 | Fix for the access control rules for JDBC/ODBC/ADO.Net EXPLAIN statements to rely on the READ privilege or the principal right of the resource. |
| CIS-67132 | OData compliance with XML 1.1 |
| CIS-72972 | Fix for Mongo DB adapter intermittently throwing a data retrieval exception. Some performance issues are also addressed. |
| CIS-73172 | Fix for improved system message for the server operation performServerAction. |
| CIS-73487 | Fix for LDap domain for OpenLDap failure due to missing attributes. |
| CIS-73593 | Fix for max() over(PARTITION BY **) function for Impala datasource to be pushed down to db for execution. |
| CIS-73636 | Fix for API operations failure after enabling the Hook option in the server configuration. |
| CIS-73723 | Fix for Union operator for Impala and Hive datasources to be pushed down to db for execution. |
| CIS-73789 | Fix for ISNULL function mapping in the YAML file. |
| CIS-73871 | Fix for memory issues when committing large number of files under a folder with TFS. |
| CIS-73954 | Fix in RBS group policy code generation to specify appropriate length for temporary VARCHAR variable. |

(Continued)

| 8.2 Fixed Issue | Summary |
|-----------------|--|
| CIS-73983 | Fix for v8.x ODBC driver based DSN - clients connected to this driver will crash or issue a warning while running INSERTs/DELETes and the application halts. |
| CIS-74104 | Fixed typo in the MPP Engine Configuration parameter "Logging Level" description. |
| CIS-74109 | Fix for Get Data Load performance to preview and load data for a single table using Power BI connector. |
| CIS-74112 | Fix for Get Data Preview Load to work as expected when an unlinked published table that exists in the published database is not selected for preview. |
| CIS-74189 | Fix for Any -> Any transform, XML document not showing child node value. |
| CIS-74207 | Fix for Odata source connection issue when data format is set to JSON. |
| CIS-74272 | Documentation updated with a valid example of the Connection checkout procedure. |
| CIS-74907 | Fix for Business Directory connection to TDV server site that has Non-SSL Enabled set to False. |
| CIS-86096 | Fix for the permanent display of Find-Replace toolbar in studio code editor. |
| CIS-86151 | Fixed the ability to add annotations to published resources when locking is enabled. |
| CIS-86333 | Fix for suppressing the Lock Resource dialog. |
| CIS-86353 | Fix for the return code of the auto start scripts on linux machines. |
| CIS-86565 | Documentation updated to clarify the path/location of the scripts to be run to verify the service files configuration. |

(Continued)

| 8.2 Fixed Issue | Summary |
|-----------------|--|
| CIS-86621 | Fix for improving the query plan efficiency. |
| CIS-87617 | Fix for ODATA adapter problem when connecting to Sharepoint: When using ODATA adapter to connect to Sharepoint, using NTLM authentication, the connection will fail due to NTLM authentication not performed properly. |
| CIS-87779 | Fix for SparkSQL Driver introspection issue of getting only partial tables into TDV. |
| CIS-87893 | Fix for slow response from ODBC client in TDV 8.1 |
| CIS-87942 | Fix for the Power BI connector queries that have sub-selects using tables with schema or catalogue that are not defined. |
| CIS-88001 | Fix for nested columns support in couchbase adapter. |
| CIS-88073 | Fix for broken lineage in cluster environment. |

TDV and Business Directory 8.1 Fixed Issues

This section lists the issues fixed in the TDV release 8.1.

| 8.1 Fixed Issue | Summary |
|-----------------|--|
| BD-4921 | Fix for issues encountered when connecting to a TDV 8.0 site in Business Directory 8.0 |
| CIS-45831 | Fix to propagate the alias renaming to the dependent views. |
| CIS-55469 | Fix to create a new username with mixed case letters |
| CIS-65248 | Documentation fix to include the tip on using ORDER BY clause on a cached data. |
| CIS-69010 | Fix to export excel files and sheets with a relative path. |
| CIS-69925 | Support for DECIMAL data types in Impala 2.0+ adapters |
| CIS-70118 | Fix to include the data type change in a view to reflect in the dependent views when change is made in the Grid panel of a view. |
| CIS-70831 | Fix to retain the CHAR data type when selecting from a physical table. |
| CIS-71005 | Fix to close the studio "Web Service" type session if studio is closed using "close" button (without logout) |
| CIS-71104 | Fix to the server login function to use a nonce and referrer check during the login process. |
| CIS-71429 | Fix for the REST data source errors when upgrading from 7.0.6 to 7.0.7. |
| CIS-71661 | Fix for setting keystore/truststore passwords in 7.0.6.00.02 after upgrading from 7.0.4. |

(Continued)

| 8.1 Fixed Issue | Summary |
|------------------------|---|
| CIS-71942 | Fix for the Host header attack mitigation |
| CIS-72267 | Fix for the issues encountered when importing CAR file from 7.0.6.00.01 to 7.0.8.00.01 |
| CIS-72465 | Fix for increase in the input character limits for the functions Print(), Log (), LogError(). |
| CIS-72669 | Fix for the authentication issues of a REST data source with OAuth2.0. |
| CIS-72690 | Fix for the Power BI connector to display the full schemas under a catalog in the navigator tree after connecting to a TDV instance |
| CIS-72709 | Performance improvements for TDV JDBC driver |
| CIS-72783 | Fix to close the Cursor when WITH clause is used twice within the WITH definition. |
| CIS-72792 | Fix for the Power BI Errors when previewing or trying to load a table in navigator page. |
| CIS-72793 | Fix for Power BI performance issue while expanding catalog. |
| CIS-72908 | Power BI connector improvements to better identify DSN and associated credentials. |
| CIS-72926 | Fix for the Null pointer exception when using REST adapter. |
| CIS-72927 | Fix to retrieve Hive/Spark tables having partition Column. |
| CIS-72947 | Fix for the Invalid SQL pushed to Oracle when WITH used with semi-join. |
| CIS-72971 | Fix for connection issues with SAP Hana data source. |
| CIS-72987 | Fix for the Power BI connector data load errors when using filters. |

(Continued)

| 8.1 Fixed Issue | Summary |
|------------------------|---|
| CIS-73014 | Some general fixes to the JDBC-ODBC Bridge Adapter. |
| CIS-73153 | Documentation fix for FORCE_DISK option with UNION ALL operator. |
| CIS-73160 | Fix for 32-bit ODBC Driver to work with 32-bit Excelsheet |
| CIS-73230 | Fix for setting the keyStore/trustStore passwords in 7.0.6.00.02 after upgrading from 7.0.4 |
| CIS-73272 | Fix for some ODBC Critical Failures on clients running against TDV 8.0 |
| CIS-73280 | Fix for the full server back up of 7.0.x to restore in 8.0 server. |
| CIS-73298 | Fix for PowerBI RequestTimeout error. |
| CIS-73302 | Fix to include SWAP_ORDER Hint in TDV 8 Code Generation. |
| CIS-73513 | Fix for the OLE DB or ODBC error when loading data through the Power BI Connector. |
| CIS-73530 | Fix to the query engine to push valid SQL to SAP Hana when case sensitivity is set to true. |
| CIS-73661 | Fix to the Power BI connector performance when streaming result set. |

TDV and Business Directory 8.0 Fixed Issues

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

| 8.0 Fixed Issue | Summary |
|-----------------|--|
| BD-4774 | Fix for LDAP password annotation for Business Directory to work as expected. |
| BD-4775 | Fix for HTTP 500 and HTTP 404 errors encountered while adding site. |
| BD-4785 | Fix for configuring LDAP in BD successfully. |
| BD-4810 | Fix to retain Customer Property in BD after site refresh. |
| BD-4899 | Fix in Business Directory to include extraneous databases |
| CIS-47403 | Fix for pushing SUBSTR function when acting against a NVARCHAR column. |
| CIS-52434 | Support for MAX(~date) in Impala. |
| CIS-52533 | Security vulnerabilities fix in Manager related to stored Cross Site scripting (XSS). |
| CIS-52534 | TDV Manager - Support for Retrieval Of Current Password. |
| CIS-56786 | Fix for left outer join on VARCHAR and NVARCHAR issues to generate correct results in SQL Server 2012. |
| CIS-58091 | Fix in Studio Installer to not expect a port number. |
| CIS-58595 | Fix for mapping of ISNULL() function to NVL for Oracle |
| CIS-62035 | Fix for Hard-Coded Cryptographic Secrets. |

(Continued)

| 8.0 Fixed Issue | Summary |
|------------------------|---|
| CIS-62046 | Fix for Deployment Manager to not send in-line SQL requests to databases. |
| CIS-64264 | Fix for errors encountered while creating WSDL datasource. |
| CIS-64923 | Fix to the VCS GIT adapter to set accept and set user.email. |
| CIS-65210 | Fix to the Documentation to include RHEL 6.7 is a supported OS. |
| CIS-65414 | Fix to be able successfully insert India rupee currency symbol value from CIS. |
| CIS-65722 | Documentation improvement on DM Resource Mapping not sufficient |
| CIS-65847 | Fix to the SELECT count(*) query on a review to return correct results for SAP HANA. |
| CIS-66077 | Fix for the REST Web service Operation URL failure in TDV 7.0.5 |
| CIS-66141 | Fix for the TDV TOP command syntax. |
| CIS-66185 | Fix for web security issues in web manager for Annotation field when adding a connector. |
| CIS-66246 | Documentation improvement to include the purpose of the 'maxmemory' field in the metrics_requests table |
| CIS-66373 | Fix to successfully execute queries including a table with row-based security defined. |
| CIS-66401 | Documentation update to include example for creating/defining SAP Hana multidimensional/calculation/graphical view in CIS |
| CIS-66481 | Fix for missing Capabilities with base adapters in TDV 7.0.5 |
| CIS-66633 | Fix to include instruction to restart application when updating the |

(Continued)

| 8.0 Fixed Issue | Summary |
|-----------------|--|
| | ADO.NET Driver. |
| CIS-66704 | Fix for semi-join partitioning issues when a change in maxSqlLength is made. |
| CIS-66738 | Fix for Kerberos support across different browsers. |
| CIS-66911 | Fix for "Disable HTTP" configuration option causing display issues in Studio/VCS. |
| CIS-67076 | Fix for the display of the Config option "Cleartext Enabled" in the UI. |
| CIS-67092 | Fix for correlated subquery aliasing issue in Oracle 11g. |
| CIS-67250 | Fix for publishing of XML transformation as JSON to return appropriate results. |
| CIS-67260 | Fix for JDBC update for jackcess jar version (2.1.8 or greater). |
| CIS-67577 | Documentation fix for correction of TZCONVERTOR function. |
| CIS-67697 | Documentation update to include syntax for CREATE/DROP/ALTER in our reference guide for the DDL interface. |
| CIS-67763 | Fix for start/stop repo service to send out SNMP traps. |
| CIS-67864 | Fix for removal of BD system tables under "CIS System Table". |
| CIS-67948 | Fix for all config settings to be saved in the Configuration panel without having to individually save each setting. |
| CIS-68200 | Fix for REST Adapter Design by Example to give appropriate results when XML contains namespaces. |
| CIS-68209 | Fix for nested declared (virtual columns) to return appropriate results. |

(Continued)

| 8.0 Fixed Issue | Summary |
|-----------------|---|
| CIS-68768 | Fix for handling case sensitive data source name in DatabaseMetadata.getCatalogs(), getSchemas(), getTables(). |
| CIS-68831 | Documentation fix to indicate file cache is advisable for demo purposes or lightweight caching of a few hundred rows. |
| CIS-68922 | Fix for issues pertaining to executing queries from Google BigQuery. |
| CIS-69407 | Fix for including Oracle Date columns to be introspected as Date rather than Timestamp. |
| CIS-69515 | Fix for Published Database Tree to include child objects without a need to refresh. |
| CIS-69632 | Fix for APPROX_COUNT_DISTINCT to be a recognized function for Google BigQuery. |
| CIS-69721 | Fix for queries with REWRITE_IN_SUBQUERIES_AS_JOINS to push successfully to underlying data source. |
| CIS-70543 | Fix for SQL Server 2016 with kerberos authentication to be a dataship target. |
| CIS-71005 | Fix to close the “Web Service” type session if studio is closed using the “close” button (without logout). |
| CIS-71264 | Documentation updates for SNMP V3. |
| CIS-71361 | Documentation updates for Licensing Information. |
| CIS-71411 | Fix for CASE Statement issues with a row_number function. |
| CIS-71508 | Fix for security vulnerabilities on port 9403 - JDBC SSL, ODBC SSL, and ADO.NET SSL. |
| CIS-71635 | Fix for query failures using MS SQL Server 2008 |

(Continued)

| 8.0 Fixed Issue | Summary |
|-----------------|--|
| CIS-71638 | Fix for “DM” privilege at group level. |
| CIS-71741 | Fix for utilizing the setDataSourceCredentials(), if a client logs in to TDV as 'admin'. |
| CIS-71805 | Fix for ADO.net driver with NTLM authentication in Spotfire. |
| CIS-72163 | Fix for REST data sources errors with request payload. |
| CIS-72430 | Fix for query with an alias to work as expected against Excel Services 2010 adapter. |

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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.

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