



TIBCO Data Virtualization®

Release Notes

Version 8.4.1
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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 8.4** (For example, from 8.4 GA or 8.4 HF installation to 8.4.1), then jump to step 5.

If you are upgrading from an earlier TDV release (For example, from 8.3 GA or 8.3 HF installation to 8.4.1), then you will need to first upgrade to TDV 8.4. 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 8.4.0 GA patch to your pre-8.4 installation and run the script given below, to then upgrade your products.

Note: When running on a Liinux/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 8.4.1 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 8.4, 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 8.4.0`

- 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-72953	Occasionally a query might be in a “READY” state for a very long time when it is served by the MPP engine. In that case, you should try to cancel the request from TDV to the MPP Engine using the request panel in TDV Manager.
CIS-86825	<p>On certain OS platforms, when un-attaching the last root directory, then attaching it again, you may encounter an exception - “commitOnRepoWithoutHEADCurrentlyNotSupported” Follow this workaround, in case of such an issue:</p> <ol style="list-style-type: none">1. Try to delete all files under {{data/vcs/vcsinstances/{vcsconnection}/localworkspace}}, including hidden files. If localworkspace directory is empty, you can try attaching again; if you are unable to delete all files, try 2nd option below.2. Go to vcs connection manager. Copy the existing vcs connection into a new one, and try to attach root to the new vcs connection.
CIS-88504	<p>After applying a “studio-only” patch, logging into TDV Studio with the encrypt option checked during login, will throw an exception. The workaround is:</p> <ol style="list-style-type: none">1. Open the studio bat file suffixed with the highest version number from the TDV_INSTALL/bin directory.2. Copy the contents of the parameters VM_ARGS, JAVA_OPTS and CLASSPATH.3. Open the un-versioned studio.bat file in the TDV_INSTALL/bin directory and replace the contents of the above parameters with the new content copied from the versioned studio.bat file.
CIS-89633	When pushed to ComputeDB data source, queries with aggregate

(Continued)

Key	Summary
	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, . Only a single index or a “*” pattern is supported.
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: jdbc:streaming@http://dv-docker-5:10080/?client-info=dvstudio
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-91469	When upgrading a Studio-only Install, follow these steps to update the properties files: 1. Open the studio.properties file suffixed with the highest version number from the TDV_INSTALL/conf/studio directory.

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Key	Summary
	<p>2. Copy the contents of the parameters version and server version</p> <p>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.</p> <p>4. Open the studio bat file suffixed with the highest version number from the TDV_INSTALL/bin directory.</p> <p>5. Copy the contents of the parameters VM_ARGS, and the content of the “for loop” that is below the VM_args</p> <p>6. Open the un-versioned studio.bat file in the TDV_INSTALL/bin directory and replace the contents of the above parameters with the new content copied from the versioned studio.bat file.</p> <p>7. Remove the second set of VM_ARGS declaration after for loop.</p>
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-91624	You may notice errors in the log related to "cis_ds_oracle_type2" during downgrade from 8.3 to 8.2 or 8.1 on linux and AIX.
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> <p>1. After the downgrade, start the server and undeploy the following adapters manually:</p> <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>

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Key	Summary
	<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 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	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. Note: This occurs only in a Windows environment
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</pre>

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Key	Summary
	<p>Success</p> <pre>TDV_INSTALL_DIR>bin\server_util.bat -server localhost -port 9400 -user admin -password admin1 -domain composite -undeploy -name TibcoStreaming -version 1 - verbose Listening for transport dt_socket at address: 8005 CRLF expected at end of chunk TDV_INSTALL_DIR>bin\server_util.bat -server localhost -port 9400 -user admin -password admin1 -domain composite -undeploy -name CosmosDB -version 1 -verbose Listening for transport dt_socket at address: 8005 Success</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-92186	Cannot run driverConfig with -installDriver and -configDsn at the same time. Must run two separate times for each option.

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Key	Summary
CIS-92261/C IS-91624	When downgrading to an older version of TDV, any adapter created using newer versions of adapters may be visible, but will not be functional. This can also sometimes apply to adapter types that are visible in the datasource creation dialog. This is an issue in Linux/AIX platforms only.
CIS-92386	When a car file is imported with VCS connection and roots, you need to detach and reattach the VCS roots before performing any VCS operation on it.
CIS-92451	When a car file is imported into Studio with VCS roots and connections, the existing resources in Studio that were not imported may show in TDV as checked-in. In this case, user will have to detach and reattach using CIS as baseline to push resources to repository or Pull from remote repository to overwrite resources in studio.
CIS-92593	When a VCS connection is created and then deleted, you may notice that creating another connection and saving it with the same name may cause the connection to revert back to the previous vcs user credentials. This is a known issue. The workaround is to create a VCS connection with a different name.
CIS-92637	If a domain was added when a node is down, restarting the node does not sync domains from other nodes of the Cluster. When this happens, removing the node from cluster and rejoining the cluster will sync all domains in the joining node.
CIS-92933	When you set the Studio configuration option "Cursor Fetch Limit" to over 4197 rows, there is a de-serialization error in Studio while saving the results to a .csv file.
CIS-93260	At TDV Server startup, you may see an error such as "Cannot register URI http://www.w3.org/2007/05/xmlsig-more#ripemd160-rsa-MGF1 to class" in the server log. The error does not impact TDV functionality so it may be safely ignored.

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Key	Summary
CIS-93339	TDV does not support Bitbucket variant of Git Version Control System.
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-94217	You may notice performance issues when a column mask rule of rule type 'partial-string mask' or 'custom function' is configured for a child entity in an OData call.
CIS-94222	You may encounter issues while using ODBC driver connection with TDV datasource which is using pass-thru authentication.
CIS-94240	When a REST data source operation is executed, the response payload is not streaming and may cause Out of Memory.
CIS-94274	There may be query optimization issues on data sources that do not support derived tables (for example, Informix.
CIS-94510	Setting the "Include Rows " option on the JOIN properties corrupts the join condition, if multiple joins are specified
CIS-94728	The Format Query button in the TDV Studio's SQL Script window does not format the query as expected and deletes the SQL definition.
CIS-94960	TDV Web Manager relied on Adobe Flash-based libraries for rendering graphs for I/O, Memory, and Storage Logs. With the removal of support for Adobe Flash across all browsers, this feature is no longer usable within Web Manager. To workaround this, the graphs are available in Studio's Manager.
CIS-95293	Altering a data view/script with empty definition does not unset the sql/script attribute.

(Continued)

Key	Summary
	<ul style="list-style-type: none"> • To unset the sql of an empty dataview, use "--". • To unset the script definition, use the following as the script definition: <pre>PROCEDURE script1() BEGIN END</pre>

TDV Web UI 8.4 Known Issues

Key	Summary
CIS-72726	Use of “?” and “&” characters within a user name is not supported in TDV Web UI.
CIS-92979	In TDV Web UI, you will not be able to delete a node when it is selected in the canvas. To delete the node, click on the canvas outside the node, hover the mouse over the node that you wish to delete and then click on the delete icon that appears on the node in the top right corner.
CIS-93537	When the data types of the columns do not exactly match, you will not be able to assign them in the Union/Intersect/Except operators.
CIS-94210	A user with ascii characters in the user name, cannot copy/rename a flow.
CIS-94413	If a flow is impacted for some reason (for example, due to an invalid filter operator) then such flows do not sometimes show the impact message.
CIS-94928	When you are previewing data for flow in the Data Catalog screen, you may notice that the horizontal scroll bar does not scroll as expected to show all the columns. The workaround is to use arrow keys instead.

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Key	Summary
CIS-95001	TDV Web UI does not re-introspect the datasets used in the flow. Hence, if the dataset changes in TDV Studio (for example, an index is added), then you will have to remove the dataset in the Flow Editor and add it back.
CIS-95053	A published flow can be copied to your private folder. However, this does not automatically copy the published flow to your private publish folder. In order to copy the flow to your publish folder, click on the Publish node and click the “Fix it” button that appears in the configuration window below the canvas.
CIS-95122	In TDV Web UI, when you search for a specific dataset in the “Select a Dataset” window in the Flow Editor, that search string propagates to the Directory Browser when you use the back arrow that is displayed before the flow name in the Flow Editor.
CIS-95159	You may notice errors in the server log file, when you try to rename a published flow in TDV Web UI. It is safe to ignore these errors.
CIS-95172	When there is a published resource that links to a resource owned by another user and if that other resource is deleted, the link will be broken. When that happens, the user cannot delete the published link in the Web UI. They will need to use Studio to do that.
CIS-95215	In TDV Web UI, when you clear all the nodes of a published flow (including the publish node) using the Clear button from the Operations palette, the empty flow still shows up in the Publish folder of the Data Catalog. The workaround is to add a Dataset node and a Publish node and then manually remove the nodes instead of using the Clear button.
CIS-95219	In TDV Web UI, the Data Catalog page displays the Endpoints for published resources, when you select the resource. However, when you move the selection from a published resource to any other resource (a folder, database, non-published datasource, etc), the previous End points continues to display, even though the currently selected resource does not have any End points.

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Key	Summary
CIS-95230	Within the Filter operator, the IN clause requires manually adding parentheses surrounding the set of values. Without the parentheses, you will encounter an “Internal Server Error”.
CIS-95330	Once you add a Publish node to the flow, a link to the flow is created in your “Published” folder. If you use the “Change History” option and choose an earlier state of the flow (before attaching the publish node), the flow will not automatically be removed from the “Published” folder. The workaround is that you will have to edit the flow, add the Publish node and then remove it manually, without using the “Change History” option.

TDV and Business Directory 8.4 Fixed Issues

The table below lists the issues fixed in TDV 8.4.

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	<p>Fix for Thai language supported fonts not displaying correctly in Studio. Follow these steps to add the selected fonts to the Studio properties:</p> <ol style="list-style-type: none"> 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

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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.

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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>

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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.
CIS-89286	In TDV Studio, newlines, tabs, and special characters were removed from the text in the Info > Annotation panel. This has been fixed
CIS-93530	ODBC TDV clients could sporadically receive "Connection reset by peer" messages. This has been fixed.
CIS-94220	Added support for introspection of stored procedures and multiple databases for MySQL.
CIS-94949	MySQL data sources can now introspect tables from multiple schemas

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8.4 Fixed Issue	Summary
	when "Show All Databases" is checked in the data source Advanced tab.
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-95059	While executing queries with a nested SELECT query containing a UNION with an ORDER BY clause containing a function, a NullPointerException could be encountered. This has been fixed.
CIS-95074	Some issues were encountered in the ODBC API Call SQLGetData(). It 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-95143	<p>MySQL data source has been added to the list of data sources that query hints can be pushed to, if enabled.</p> <p>To enable, set this configuration to True:</p> <p>Studio > Administration > Configuration > Data Sources > Oracle Sources > Push Oracle/Vertica/MySQL query hints.</p> <p>Note: This setting controls whether to push Oracle/Vertica/MySQL query hints to Oracle/Vertica/MySQL data sources. Query hints occur immediately after the SELECT keyword, and must begin with --+ or /*+. Regular comments will be dropped. TDV will not validate the query hints, and Oracle/Vertica/MySQL ignores invalid query hints. TDV does not guarantee that the query hint will be pushed, as plan optimizations may cause the hint to be dropped.</p>
CIS-95173	When using Design By Example for a Stored Procedure to get its definition, if a parameter was manually removed and the Stored

(Continued)

8.4 Fixed Issue	Summary
	Procedure was re-introspected, a second duplicate parameter was being added. This has been fixed.
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-95280	Snowflake adapter now supports TEMP table.
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-95374	CREATE TEMP TABLE statements now use temporary tables when supported by selected data sources whose adapter is in the /packages directory. Check if a datasource is supported by looking for the value "jdbcds.ddl_create_temp_table_start" in the adapter's YAML file. You may also need to set the option "commitOnFetchDone" to false, if it isn't already.
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-95442	TDV 8.4 server did not start upon installation on a non English Windows installation (Japanese, Italian, etc). This has been fixed.
CIS-95480	JDBC Prepared Statement did not return the desired result when there

(Continued)

8.4 Fixed Issue	Summary
	are multiple columns in the WHERE-IN clause. This has been fixed.
CIS-95532	Cache target table DDL truncates column names greater than 28 characters. This has been fixed.
CIS-95533	Added DV build and runtime scripts to enhance DV Docker Container build and run usage. Added runtime configuration for DV Docker Containers to support the following: 1) runtime configuration for server max memory (aka Java heap) - "TDV_MAX_MEMORY" 2) runtime configuration for base DV port - "TDV_BASE_PORT"
CIS-95565	Fixed the issue with TDV WebUI login using Azure AD account name format (e.g. <user>@<domain>).
CIS-95573	When importing a CAR file into an 8.4 installation, the following error may be thrown: <code>An internal error has occurred. Cause: String index out of range: 1148.</code> This has been fixed.
CIS-95625	When configuring UNION on the Model tab, the column information (meta data) for the added view is not loaded on the Grid tab. This is a known issue. To workaround this issue, follow these steps: 1. Add the first table/view in the model before adding the UNION. 2. Switch to the Grid tab and pull down the column information once. 3. The column information will be available in the resource grid views after adding other resources, and there will be no exceptions thrown.
CIS-95649	ODBC Windows driver closes the connection when returning CLOB values that exceed 16000 characters. This has been fixed.
CIS-95650	An error "Invalid expression: unexpected token" was encountered in input parameter settings in view when created on Japanese Windows machine. This has been fixed.
CIS-95659	Added \$filter support for Primary Keys using the 'other' connection

(Continued)

8.4 Fixed Issue	Summary
	property "SupportsGetOnPKFilter=false".
CIS-95750	TDV WebUI login via “https and 9402 port” is now supported. Note that in Chrome, you need to provide a certificate when you run TDV with SSL.
CIS-92592	<p>A new configuration is available in Studio > Administration > Configuration > Server > Configuration > Debug > Metadata > Garbage Batch Size.</p> <p>The configuration defaults 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 "security_privileges" in batches of size no greater than the specified size. This can be used if you encounter an exception similar to this in the cs_server.log:</p> <pre>could not write block 7619973 of temporary file: No space left on device [repository-2900112].</pre>
CIS-93348, CIS-96124	Explain plans from JDBC clients or Scratchpad in Studio showed execution times as 0. 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-95619	TDV does not (or is slow to) throw an error to a JDBC client when a query is terminated from the request source side. This has been fixed. Note that the new TDV JDBC driver must be used for this fix. After applying the hotfix, it is available in the "<TDV_install>/apps/jdbc/lib" directory.
CIS-95629	<p>Composite DDL using CREATE TABLE AS SELECT... (CTAS) statements for Snowflake using the Snowflake adapter would create CHAR(N) columns as VARCHAR(1). This has been fixed.</p> <p>Note that for 8.3 hotfixes (HF8 or above), one will need to request a</p>

(Continued)

8.4 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-003_all.zip) contains the updated adapter.</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-95826	<p>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.</p>
CIS-95926	<p>When using ISNULL in a "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 <code>com.compositesw.cdms.services.parser.ParserException: Invalid column name 'DD' .</code> This has been fixed.</p>
CIS-95940	<p>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.</p>
CIS-95956	<p>When using functions like LEFT and RIGHT in a Composite DDL "CREATE TABLE AS SELECT... (CTAS)" statement, the column size was</p>

(Continued)

8.4 Fixed Issue	Summary
	being set to LONG VARCHAR. The original column size from the SELECT statement will now be used.
CIS-96012	<p>TDV passthrough queries to Snowflake using DISTINCT and TOP failed with a 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. <p>Note that for 8.3 hotfixes (HF8 or above), one will need to request a 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-003_all.zip) contains the updated adapter.</p>
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-96102	TDV Studio 8.4 does not allow renaming schema for the published databases. 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. This has been fixed.

(Continued)

8.4 Fixed Issue	Summary
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-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.

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.

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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.

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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

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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>

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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.

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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.

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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>

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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.

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

TDV and Business Directory 8.0 Fixed Issues

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

8.0 Fixed 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.

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

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

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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.

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

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