

TIBCO Spotfire® Analyst Release Notes

Software Release 10.0

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TIBCO Documentation and Support Services

How to Access TIBCO Documentation

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

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

Product-Specific Documentation

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

- TIBCO Spotfire® User's Guide
- TIBCO Spotfire® Administration Manager User's Guide
- TIBCO Spotfire® License Agreement

Release Version Support

Some release versions of TIBCO Spotfire products are designated as long-term support (LTS) versions. LTS versions are typically supported for up to 36 months from release. Defect corrections will typically be delivered in a new release version and as hotfixes or service packs to one or more LTS versions. See also https://docs.tibco.com/pub/spotfire/general/LTS/spotfire_LTS_releases.htm.

How to Contact TIBCO Support

You can contact TIBCO Support in the following ways:

- For an overview of TIBCO Support, visit <http://www.tibco.com/services/support>.
- For accessing the Support Knowledge Base and getting personalized content about products you are interested in, visit the TIBCO Support portal at <https://support.tibco.com>.
- For creating a Support case, you must have a valid maintenance or support contract with TIBCO. You also need a user name and password to log in to <https://support.tibco.com>. If you do not have a user name, you can request one by clicking Register on the website.

System Requirements for Spotfire Products

For information about the system requirements for Spotfire products, visit <http://spotfi.re/sr>.

How to Join TIBCO Community

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

For quick access to TIBCO Spotfire content, see <https://community.tibco.com/products/spotfire>.

New Features

The following new features have been added to version 10.0 of TIBCO Spotfire® Analyst.

For details about new Spotfire features, see [What's New in TIBCO Spotfire](#) in the TIBCO Community.

Spotfire streaming visual analytics

Spotfire can now visualize data from more than 80 streaming data sources, such as Kafka, MQTT, Salesforce Streaming, WITS, OsiPi and many Capital Market Exchanges, and of course other TIBCO Technologies such as FTL and EMS. This makes it possible to see data just as it gets created, and allows you to respond quicker to issues.

To access your streaming data, you use the new connector for TIBCO Spotfire® Data Streams.

New Spotfire user experience

The Spotfire user interface has been redesigned, and is now visually cleaner and keeps the functionality grouped more logically.

- **Files and data**

Clicking + on the new authoring bar now shows you all different ways you can add data to your analysis, such as data from data connections, files, information links, and data function definition files.

The Files and data flyout is the place to go to when adding data either as new data tables, as new columns or new rows, and you will get recommendations on the best way to add your data. See "New summary view when adding data" below for more information.

You can use the search field at the top of the flyout in all views.

Already existing data connections in the library are easily found, both together with the appropriate connector or when using search.

- **Data in analysis**

The Data in analysis flyout is a new take on the data panel that lets you view columns from all your data tables, and see recommendations based on selected data.

You can still view column details for the selected column by switching the expanded view to "Details on selected column".

- **Visualization types**

The Visualization types flyout lets you select a visualization type and drag it to the desired position on the visualization canvas.

New summary view when adding data

As part of the new approach to adding data in Spotfire 10.0, there is a comprehensive new summary view where you can inspect and modify the way data will be added and represented, before hitting the go button.

This view includes data recommendations on how to best add your data. For example, you might get suggestions on how you can merge different inputs into a single data table by adding data as rows, rather than as a new data table.

In the summary view, you can easily change the load method from external to imported data and vice versa (in applicable cases). This feature is now also available for business authors.

Search for visualizations

Spotfire 10.0 has a powerful search feature that lets you search both for columns and values in your data, to be able to show either recommended visualizations, or Spotfire features. This makes it even easier to visualize and analyze your data the way you want to.

Type, for example, "Sales per Region and Year" and Spotfire responds with recommending the corresponding visualizations, if those columns are present. You can choose to click or drag a visualization from the search interface to the visualization canvas.

It is also possible to search for values in your data. For example, if you are looking for the sales of a specific sales rep, you can just type the sales rep's name and Spotfire will help you mark it.

AI-powered visualization recommendations

Spotfire now provides visualization recommendations powered by machine learning, that help you find relationships in the data. If you select a column in the Data in analysis flyout, Spotfire now shows recommended visualizations including other columns that seem likely to have a relationship to the selected column. This makes it easier and faster to analyze your data.

Recommended table links

There is a new recommendation feature that helps you create relations between data tables, thereby enabling brush-linking (where marking in one data table is propagated as marked items in other, related, data tables).

Add username and/or timestamp in headers or footers of prepared PDF reports

The prepared PDF reports can now be configured to display the current user and/or the current time in the header or footer.

Configurable preferred aggregation method in Spotfire visualizations

You can now specify a preferred aggregation method for columns containing numerical values.

Spotfire will use the preferred aggregation method instead of 'Sum' when a default aggregation method is needed in a visualization. This is useful, for example, when working with data that does not make sense to sum up, such as Temperature, Age, etc.

For individual columns, the preferred aggregation method is configured from the Data in analysis flyout in Spotfire Business Author or Spotfire Analyst.

The default preferred method can be configured per user from Tools > Options, or per user group by an administrator in Administration manager.

New data canvas displays the data pipeline

The source view is now located in the data canvas, and has been moved to a more prominent and easily accessible part of the user interface. It has a new visual design and support for fast switching between the available data tables.

CRS UI updates

Business Author users can now configure the coordinate reference system (CRS) and projection of a map chart and its associated layers. The updates also improves the user experience for Analyst users with a nicer and faster UI.

Geocoding coverage updates

The following data has been updated:

- Over 160,000 new cities are available worldwide.
- New administrative areas are supported for US that include:
 - Area Code
 - Borough
 - CBSA
 - Congressional District
 - School District

Apache Drill connector

A new connector for accessing data from Apache Drill is available. The connector uses DSNs to configure the settings for the connection data source, but is not dependent on the DSN once the connection data source been created.

In this version, the Apache Drill connector supports the following authentication types:

- Plain (Username and password)
- No authentication

Dremio connector

A new connector for accessing data from Dremio is available. The connector uses DSNs to configure the settings for the connection data source, but is not dependent on the DSN once the connection data source has been created.

In this version, the Dremio connector supports the following authentication types:

- Plain (Username and password)
- Username
- No authentication

Driver installation help

There is now easily accessible help for finding and installing drivers for all connectors in Spotfire.

Active Directory integrated authentication for Microsoft SQL Server

You can now use the authentication method 'Active Directory - Integrated' in Microsoft SQL Server data connections. This can be useful if you want to access data from, for example, Microsoft Azure SQL Database.

TIBCO Community

TIBCO Community can now easily be accessed from the Help menu in Spotfire.

Changes in Functionality

The following are important changes in functionality in version 10.0 of TIBCO Spotfire® Analyst.

New menu structure

The menu structure has been reworked to include a more logical grouping of items.

Document properties are now found under the File menu.

All data-related features, including properties dialogs and entries for inserting calculated columns, hierarchies, predicted columns, etc., are found under the new Data menu.

Visualization and layout features are found under the new Visualizations menu.

New access point for File > Open and File > Add Data Tables

Whether you want to open a local file or library item, add new data tables, or connect to an external data source, you should go to the + (Files and data) flyout on the authoring bar, the new home for all data access.

New access point for File > Replace Data Table

Replacement of data tables (as well as data sources) is now done solely from the Data canvas, found by clicking the icon on the lower part of the authoring bar.

New access point for Insert > Rows and Insert > Columns

All data is now added from the + (Files and data) flyout on the authoring bar.

The new summary view in the add data workflow allows you to select whether to add data as a new data table, as new rows, or as new columns.

You can still add columns and rows between nodes in the source view, now located in the Data canvas.

New access point for Insert > Data Function

All data is now added from the + (Files and data) flyout, and data functions that return data are now opened as any other files (local files or from the library).

The Paste Special option is no longer available

When pasting data, you will always come to the new summary view where you can specify that the new data should be added either as a new data table, as new rows, or as new columns.

New access points for Recommended visualizations

The Recommended visualizations now show up in the Data in analysis flyout, when selecting columns in the flyout, rather than as a separate dialog. Recommendations are also shown when using the Find tool to search for answers.

Changes in web client authoring settings

The 'Allow authoring in web clients' check box has been removed from the Document Properties - Library tab. It is now always possible to edit an analysis using web clients.

Deprecated and Removed Features

The following features are deprecated or removed as of version 10.0 of TIBCO Spotfire® Analyst.

Affected component	Description
jQueryUI	<p>Please note that the jQueryUI JavaScript library will not be distributed with future releases of TIBCO Spotfire®. Your use of this third party library, whether in this release, past releases, or future releases of TIBCO Spotfire, is entirely at your own discretion, as such use of the jQueryUI JavaScript library is not supported or warranted by TIBCO. Please see Best Practices for Writing Custom JavaScript Code in Text Areas for additional information on using JavaScript code with Spotfire® products.</p>
Citrix XenApp	<p>Support for the operating system Windows Server 2008 R2 has been removed.</p>
Export to PowerPoint	<p>The functionality for exporting to PowerPoint as editable objects is deprecated.</p>
SAP BW Connector (ODBO)	<p>Support for using the ODBO interface and drivers (SAP BW OLE DB for OLAP provider) with the Spotfire Connector for SAP BW has been deprecated. In a future release of TIBCO Spotfire®, the SAP BW connector will only support using the more efficient BAPI interface and drivers.</p> <p>In version 7.11 LTS of TIBCO Spotfire®, support for the more efficient BAPI interface was introduced in the Spotfire Connector for SAP BW. During an interim period, the SAP BW Connector includes support for using either the BAPI interface, or the previous solution, the ODBO interface for connecting to SAP BW in Spotfire.</p> <p>To migrate and start using BAPI, install the BAPI drivers (SAP NetWeaver RFC SDK) on your computers that run Spotfire clients:</p> <p>Installing the BAPI drivers for the Spotfire Connector for SAP BW</p>

Installation

The following are instructions on how to install version 10.0 of TIBCO Spotfire® Analyst.

The TIBCO Spotfire® Analyst client is delivered as two different installers. The installer labelled "single_user" is the default one. Use this if you do not know which version to select. The installer labelled "single_user" installs the product for the logged in user only. The other users on the same machine will not be able to use the client. The installer labelled "shared_computer" installs the product for all users on the machine. This installer requires administrative privileges on the machine.

Installation of Release 10.0

1. First install/upgrade the TIBCO Spotfire® Server to version 10.0.
2. Deploy the TIBCO Spotfire® 10.0 distribution on the TIBCO Spotfire® Server 10.0.
3. Finally, install TIBCO Spotfire® Analyst 10.0 on all client computers.

Installation Notes

- If the .NET 4.5 framework is not installed, it will be downloaded and installed when launching the "shared_computer" TIBCO Spotfire® Analyst client installer. The "single_user" installer will not download the .NET framework, because it does not have system changing privileges. However, it will complain if the .NET framework is missing.
- If the product localization is defined as a user group preference, a client restart is required after the initial login to the server for the changes to be fully applied. Note that clients are not informed that such a restart is required. It is also important that the appropriate localization packages are deployed to the TIBCO Spotfire® Server prior to setting the user group preference.

Note that the correct Language pack and the matching server preference must be set on the very first server that the user connects to. Changing the settings on the Server will not have any effect. If the localization group preference does not have any effect, it can be enforced on clients using **Tools > Options**.

Migration and Compatibility

The following are instructions on how to migrate from a previous release to version 10.0 of TIBCO Spotfire® Analyst.

Upgrading from Previous Version without Installing

1. First install/upgrade the TIBCO Spotfire® Server to version 10.0.
2. Deploy the TIBCO Spotfire® 10.0 distribution on the TIBCO Spotfire® Server 10.0.
3. Start the old version of TIBCO Spotfire® Analyst, log on to the TIBCO Spotfire® Server 10.0 and accept the update.

Compatibility Versions

You can use TIBCO Spotfire 10.0 to open .dxp analysis files that were created and saved in any older version of Spotfire that is still in support.

The compatibility versions of TIBCO Spotfire 10.0 are updated to versions 7.14 and 7.11 LTS. This means that .dxp analysis files that you create and save in Spotfire 10.0 can be opened in versions 7.14 and 7.11 LTS of Spotfire.



When you use an older version of Spotfire to open an analysis file that was created in a newer version of Spotfire, features from the newer version might not be available, and the analysis might look and behave differently compared to the version in which it was created.

Spotfire version	Can open version									
	10.0	7.14	7.13	7.12	7.11	7.10	7.9	7.8	7.7	7.6
10.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7.14	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7.13		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7.12			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7.11	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7.10				Yes	Yes	Yes	Yes	Yes	Yes	Yes
7.9					Yes	Yes	Yes	Yes	Yes	Yes
7.8						Yes	Yes	Yes	Yes	Yes
7.7							Yes	Yes	Yes	Yes
7.6								Yes	Yes	Yes

Closed Issues

The table lists important closed issues in version 10.0 of TIBCO Spotfire® Analyst.

Key	Summary
TS-48063	Manual min/max range was not set if the 'Show zoom slider' option was selected.
TS-49943	PDF export did not take custom visualization area size into account.
TS-50081	Performance when working with the client was noticeably worse after turning on the Tags panel.
TS-52738	Bookmarks did not work as expected when a list box filter for on-demand data was applied.
TS-54791	A different font was used for Japanese text when Spotfire Analyst was started in English language.
TS-55306	<code>setBusy</code> was not working correctly when creating custom visualization extensions.
TS-55400	Inconsistent behavior of Shift + Click and Drag control in a line chart.
TS-55564	It was sometimes not possible to open a DXP file containing Pivot transformations.
TS-55669	Spotfire would sometimes close unexpectedly due to a column mismatch in data relations.
TS-55681	A visualization would not always update after a refresh was done by a Python script.
TS-56208	<code>DataMarkingSelection.SetSelection()</code> performance in 7.12 and subsequent versions was significantly slower compared to earlier versions.
TS-56243	A list box filter with the setting 'Show check boxes' was not working as expected with empty values.
TS-56712	Custom theme created in earlier version did not work in later version.
TS-56737	'Maximize Visualization' did not exist in the toolbar of a custom visualization.
TS-56841	Spotfire closed unexpectedly when using the Windows culture/format 'English (World)'.
TS-56842	In some cases a data function would add multiple columns, even though the option 'Replace columns on update' was enabled.
TS-57015	Spotfire closed unexpectedly when loading document with a custom extension. Issues were due to illegal object to be deserialized.

Key	Summary
TS-57170	Spotfire closed unexpectedly when editing color point. System.NullReferenceException: Object reference not set to an instance of an object.
TS-57217	A prepared report intermittently did not show Y-axis scale labels in a line chart when exported to PDF.
TS-57345	A bar chart visualization could sometimes not be rendered and an error message, 'The expression is too complex', was displayed.
TSDC-4760	With the latest version of the Oracle MySQL driver, it was not possible to use data connections to Oracle MySQL that were not configured with SSL.
TSS-23471	Users who were a member of the group 'Library Administrator' were not granted permission to create library folders from the Information Designer.

Known Issues

The table lists important known issues in version 10.0 of TIBCO Spotfire® Analyst.

Key	Summary
TSDC-5092	When connector query logging is enabled, the queries that are logged for the Apache Drill and Dremio connectors in the QueryLog log file cannot be executed in Apache Drill or Dremio clients.
TS-53053	No access keys available in the menu bar and authoring bar.
TS-57584	No custom header for white-labeling the Spotfire clients (co-branding) available.