

# **TIBCO Spotfire<sup>®</sup> Professional**

## **Release Notes**

*Software Release 5.0.0*  
*November 2012*

two-second advantage<sup>™</sup>

 **TIBCO<sup>®</sup>**  
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# Preface

## Topics




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- [Typographical Conventions, page iii](#)
- [Connecting with TIBCO Resources, page iv](#)

## Typographical Conventions

The following typographical conventions are used in this manual.

### General Typographical Conventions

Convention	Use
<code>code font</code>	Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example:  Use <code>MyCommand</code> to start the foo process.
<b>bold code font</b>	Bold code font is used in the following ways: <ul style="list-style-type: none"> <li>• In procedures, to indicate what a user types. For example: Type <b>admin</b>.</li> <li>• In large code samples, to indicate the parts of the sample that is of particular interest.</li> <li>• In command syntax, to indicate the default parameter for a command. For example, if no parameter is specified, <code>MyCommand</code> is enabled: <code>MyCommand [ <b>enable</b>   disable]</code></li> </ul>
<i>italic font</i>	Italic font is used in the following ways: <ul style="list-style-type: none"> <li>• To indicate a document title. For example: See <i>Concepts</i>.</li> <li>• To introduce new terms. For example: A portal page may contain several portlets. <i>Portlets</i> are mini-applications that run in a portal.</li> <li>• To indicate a variable in a command or code syntax that you must replace. For example: <code>MyCommand PathName</code></li> </ul>
Key combinations	Key name separated by a plus sign indicate keys pressed simultaneously. For example: <code>Ctrl+C</code> .  Key names separated by a comma and space indicate keys pressed one after the other. For example: <code>Esc , Ctrl+Q</code> .
	The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances.
	The tip icon indicates an idea that could be useful, for example, a way to apply the information provided in the current section to achieve a specific result.
	The warning icon indicates the potential for a damaging situation, for example, data loss or corruption if certain steps are taken or not taken.

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## Connecting with TIBCO Resources

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### How to Join TIBCOmmunity

TIBCOmmunity is an online destination for TIBCO customers, partners, and resident experts, a place to share and access the collective experience of the TIBCO community. TIBCOmmunity offers forums, blogs, and access to a variety of resources. To register, go to <http://www.tibcommunity.com>.

### How to Access All TIBCO Documentation

After you join TIBCOmmunity, you can access the documentation for all supported product versions here:

<https://docs.tibco.com>

### How to Contact TIBCO Spotfire Support

For comments or problems with this manual or the software it addresses, please contact TIBCO Spotfire Support as follows.

- For an overview of TIBCO Support, and information about getting started with TIBCO Support, visit this site:

<http://www.tibco.com/services/support>

- If you already have a valid maintenance or support contract, visit this site:

<https://support.tibco.com>

Entry to this site requires a user name and password. If you do not have a user name, you can request one.

# Release Notes

Check the TIBCO Product Support web site at [https:// support.tibco.com](https://support.tibco.com) for product information that was not available at release time. Entry to this site requires a username and password. If you do not have a username, you can request one. You must have a valid maintenance or support contract to use this site.

See the [TIBCO Spotfire® System Requirements](#) web page for a detailed description of the system requirements for TIBCO Spotfire® 5.0.0.

## Topics

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- [New Features, see page 2](#)
- [Changes in Functionality, see page 4](#)
- [Deprecated and Removed Features, see page 5](#)
- [Migration and Compatibility, see page 6](#)
- [Closed Issues, see page 7](#)
- [Known Issues, see page 9](#)

## New Features

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This section lists features added since the last release of this product.

### Release 5.0.0

The following are new features in this release.

#### New In-Memory Data Engine

- TIBCO Spotfire® 5.0.0 now uses Spotfire's next generation in-memory data engine specifically targeted for Big Data analysis.

#### Support for In-Database Connectors

- Instead of always using the in-memory data engine, TIBCO Spotfire® 5.0.0 can now use an external system as an alternative data engine and, instead of bringing all data into memory, perform calculations and aggregations in the external system. That way TIBCO Spotfire 5.0.0 can handle data volumes too large to fit into primary memory.

#### Support for Teradata® as an In-Database Data Source

- TIBCO Spotfire® can now connect directly with Teradata® and have Teradata perform aggregations and calculations in-db.

Spotfire will also automatically recreate any dimensional model in Spotfire if such a model exists in the Teradata database. Note that the Teradata .NET Data Provider must be installed on the machine running the Teradata connector. Click [here](#) to download the driver.

#### Support for Oracle® as an In-Database Data Source

- TIBCO Spotfire® can now connect directly with Oracle® and have Oracle perform aggregations and calculations in-db.

Spotfire will also automatically recreate any dimensional model in Spotfire if such a model exists in the Oracle database. Note that the Oracle Data Provider for .NET4 must be installed on the machine running the Oracle connector. Click [here](#) to download the driver for 32-bit or 64-bit ODAC, respectively.

#### Support for Microsoft® SQL Server® as an In-Database Data Source

- TIBCO Spotfire® can now connect directly with Microsoft® SQL Server® and have Microsoft SQL Server perform aggregations and calculations in-db.

Spotfire will also automatically recreate any dimensional model in Spotfire if such a model exists in the SQL Server database.

#### Support for Microsoft® SQL Server® Analysis Services as an In-Database Data Source

- With TIBCO Spotfire® 5.0.0 it is now possible to connect directly to a Microsoft® SQL Server® Analysis Services OLAP cube and use the attribute hierarchies, user hierarchies and measures directly in Spotfire visualizations.



Spotfire will create native MDX queries to query Analysis Services.

Note that the ADOMD.NET driver must be installed on the machine running the Analysis Services connector. Click [here](#) to download the driver for Microsoft Analysis Services 2008 R2, and [here](#) to download the driver for Microsoft Analysis Services 2012. Search for ADOMD.NET and select the correct version for your system, i.e., 32-bit or 64-bit, respectively.

### Support for the TIBCO® ActiveSpaces Data Source

- TIBCO Spotfire® can now connect directly with TIBCO ActiveSpaces.

To configure the server to use ActiveSpaces:

1. The Administrator can install the SDN on the Spotfire Server. (This pushes the ActiveSpaces SPKs to the Spotfire client using the update mechanism.)
2. The Administrator enables the 'Load Data from ActiveSpaces' license for the appropriate users/ groups.

**Note:** To use Spotfire ActiveSpaces data source the TIBCO ActiveSpaces product must be installed on a client machine (see the System Requirements at <http://support.spotfire.com/sr.asp>).

### Drop Target Information Tooltips

- A descriptive text has been added to all visualization drop-targets.

### Support for Predictive Analytics

- With TIBCO Spotfire® 5.0.0, you can incorporate predictive models into your analysis using either regression modeling or classification modeling.
- TIBCO® Enterprise Runtime for R for Spotfire® is a new, R-compatible enterprise-grade analytic engine available to use with your data functions (in addition to S-PLUS and support for open-source R).

## **Changes in Functionality**

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This section lists changes in functionality since the last release of this product.

### **Release 5.0.0**

There are no changes in functionality in this release.

## Deprecated and Removed Features

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### Release 5.0.0

#### Deprecated Features

No features are deprecated in this release.

#### Removed Features

The following features are removed in this release:

##### Support for Files of Version 1.0 and 1.1

- There is no longer any support for 1.0 and 1.1 files.

##### Error Values from Imported or Calculated Data

- Error values from imported data or calculated data are not supported anymore. Error values are treated the same way as empty (NULL) values and will show up as empty cells in a table visualization.

##### Column Properties Calculated from Values

- Column properties that are being calculated from the values in the column are not available anymore. It is recommended that the corresponding values are being calculated using expressions instead:

Column Property	Corresponding Expression
DistinctValueCount	UniqueCount(...)
RowCount	Count()
ValidRowCount	Count(...)
InvalidRowCount	Count() - Count(...)
MinValue	Min(...)
MaxValue	Max(...)

## Migration and Compatibility

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This section explains how to migrate from a previous release to this release.

### Release 5.0.0

#### Installation

1. First install/ upgrade the TIBCO Spotfire® Server to version 5.0.0.
2. Install TIBCO Spotfire® Professional 5.0.0.  
**Note:** If the TIBCO Spotfire® 3.1.0 Professional or older is installed, it is recommended to uninstall it prior to installing the TIBCO Spotfire® Professional 5.0.0.
3. Finally, deploy the TIBCO Spotfire® 5.0.0 distribution on the TIBCO Spotfire® Server 5.0.0.

#### Upgrading from Previous Version without Installing

1. First install/ upgrade the TIBCO Spotfire® Server to version 5.0.0.
2. Deploy the TIBCO Spotfire® 5.0.0 distribution on the TIBCO Spotfire® Server 5.0.0.
3. Start the old version of TIBCO Spotfire® Professional, logon to the TIBCO Spotfire® Server 5.0.0 and accept the update.

#### Installation Notes

- If the .NET 4.0 framework is not installed, it will be downloaded and installed when launching the TIBCO Spotfire® Client installer.
- 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.

## Closed Issues

The table in this section lists issues that were closed in the named release.

Closed In Release	Key	Summary
5.0.0	TS-25306	The API method <code>LibraryLinks.TryGetWebPlayerUri()</code> always returns a null URI.
5.0.0	TS-25097	The RSS feed in the login dialog is not shown correctly on Windows 8 and when .NET Framework 4.5 is installed.
5.0.0	TS-23646	Add the ability to use Custom Expressions, like <code>[column] - [column2]</code> , on the X-axis of a continuous scale in a Bar Chart visualization.
5.0.0	TS-27112	Progress indicator when reading On-Demand table in cross table.
5.0.0	TS-26473	Cannot apply the gradient coloring on a Treemap.
5.0.0	TS-26119	"Limit data using expression" not working properly in Graphical Table.
5.0.0	TS-25977	Filter panel does not update correctly when you click from tab to tab in the analysis.
5.0.0	TS-25971	Filter settings not upheld for List box filter, when using bookmark and full set of values differ from last load.
5.0.0	TS-25779	Exception when opening an STDF-file containing a data table property with '=' in its value.
5.0.0	TS-25764	Register Data Functions fails when set to Type S-PLUS Function - "The given key was not present in the dictionary".
5.0.0	TS-25626	Editing Data Functions parameters makes Spotfire unexpectedly terminate.
5.0.0	TS-25355	Get 'plot configuration is not valid' when using Data Limiting Expression, Custom Expression, and <code>[Column Names]</code> for Color By.
5.0.0	TS-25342	Details-on-Demand for horizontal bar chart does not work with very small values.
5.0.0	TS-25243	"Limit data by expression" - property control change is not reflected in Table visualization.
5.0.0	TS-25195	Sorting columns by using the 'Show only top/ bottom' option in a cross table makes Spotfire unexpectedly terminate.
5.0.0	TS-25194	Sorting a cross table with grand totals by clicking on the column header is not working.
5.0.0	TS-25118	Spotfire unexpectedly terminates when right-clicking on the title bar in a Table visualization when all columns had been removed.
5.0.0	TS-25101	Map chart created with binary objects allows you to highlight areas outside of the filtered geometry.
5.0.0	TS-25091	Linked data converting issue from 3.3 to 4.5.
5.0.0	TS-25044	Error when importing Excel file: "Not a legal OleAut date."
5.0.0	TS-24915	Discrepancy between the description in the Help and the actual functionality for the "For each line" option in Line chart properties.
5.0.0	TS-24678	Export to PDF: The vertical alignment of the plots are different in 4.5 compared to 4.0. The vertical alignment is now set to top again.
5.0.0	TS-24471	Dynamic custom expression in tooltip becomes static when reopening custom expression for tooltip.

Closed In Release	Key	Summary
5.0.0	TS-24441	Change event not triggered on property control when the control only has one value after update of on-demand data table.
5.0.0	TS-24260	Spotfire unexpectedly terminates when TimeSpan Range Filter field is left blank.
5.0.0	TS-24250	Canceling "match columns" makes Spotfire unexpectedly terminate.
5.0.0	TS-26649	Not possible to use columns of type bit from Microsoft SQL Server.

## Known Issues

The table in this section lists known issues in this release.

Key	Summary/Workaround
TS-24612	<p><b>Summary</b> When setting a document property value from expression in a property control in the text area, it is not possible to select columns from any data table.</p> <p><b>Workaround</b> Change the default data table in Data Table Properties.</p>
TS-24593	<p><b>Summary</b> When using certain fonts in a cross table, the text can appear slightly misplaced when exporting to PDF.</p> <p><b>Workaround</b> Use standard fonts, for example Arial.</p>
TS-24486	<p><b>Summary</b> Transparent lines are not rendered correctly in Export to PDF when using Vector graphics mode.</p> <p><b>Workaround</b> Do not use transparent lines if you intend to export the analysis to PDF.</p>
TS-24452	<p><b>Summary</b> The value bars in a bullet graph get a white border when exported to PDF.</p> <p><b>Workaround</b> None.</p>
TS-24436	<p><b>Summary</b> When having multiple trellis panels, the Colors page in the Visualization Properties shows the colors for the first trellis panel. The other panels may have a different color configuration but that cannot be seen in the property page.</p> <p><b>Workaround</b> None.</p>
TS-24512	<p><b>Summary</b> When exporting a map chart to PDF using vector graphics, the map is not rendered correctly.</p> <p><b>Workaround</b> Use raster graphics when exporting a map to PDF.</p>
TS-24601	<p><b>Summary</b> Tiled markers in a scatter plot have a line drawn diagonally over them when exporting to PDF.</p> <p><b>Workaround</b> None.</p>
TS-24535	<p><b>Summary</b> Bars disappear (or become too thin to see) when exporting to PDF, if there are many bars in a bar chart.</p> <p><b>Workaround</b> Use raster graphics when exporting to PDF.</p>
TS-24479	<p><b>Summary</b> Exporting a heat map with many rows to PDF with vector graphics results in an empty visualization.</p> <p><b>Workaround</b> Use raster graphics when exporting to PDF.</p>
TS-24502	<p><b>Summary</b> When exporting a table visualization with columns rendered as links to PDF, the underline will become a strikethrough.</p> <p><b>Workaround</b> Use raster graphics when exporting to PDF.</p>
TS-24395	<p><b>Summary</b> Hebrew characters in visualizations and header or footer are not correctly rendered in exported PDF.</p> <p><b>Workaround</b> None.</p>
	<p><b>Summary</b> It is not possible to connect to a server from a machine in another NT domain by using Run As when launching Spotfire.</p> <p><b>Workaround</b> None.</p>
	<p><b>Summary</b> Hardware graphics acceleration may not work on older graphics cards or if the drivers are not up to date.</p>

Key	Summary/Workaround
	<p><b>Workaround</b> None.</p> <p><b>Summary</b> Certain graphics cards and drivers lead to crashes, slow response times, blank visualizations, or missing shapes when hardware acceleration is used. This is known to happen on Dell Dimension 9200 / NVidia 7900 Graphics driver: version 7.15.11.5824 but may happen on other system configurations as well.</p> <p><b>Workaround</b> Upgrading to the latest graphics driver may resolve these issues. If not, hardware acceleration can be turned off under Tools &gt; Options &gt; Application.</p>
	<p><b>Summary</b> The 3D Scatter Plot is not supported in a Citrix environment since the plot requires hardware acceleration.</p> <p><b>Workaround</b> None.</p>
	<p><b>Summary</b> Filtering in the Data Relationships results table will prevent re-calculating the Data Relationships.</p> <p><b>Workaround</b> Reset filters and Data Relationships can be re-calculated again.</p>
TS-2762	<p><b>Summary</b> Large fonts (120DPI) sometimes cause the lower half of screen and the rightmost part of the screen to be outside the physical screen.</p> <p><b>Workaround</b> None.</p>
TS-10200	<p><b>Summary</b> The automatic download mechanism will fail if a restricted user tries to install the application as an administrator by choosing "Run As Administrator".</p> <p><b>Workaround</b> None.</p>
TS-27041	<p><b>Summary</b> Filter tab in the Export to PDF dialog shows unique value instead of presentation value when using Microsoft SQL Server Analysis Services in-db data.</p> <p><b>Workaround</b> None.</p>
TS-26085	<p><b>Summary</b> A categorical custom expression on the ColorBy axis for Microsoft SQL Server Analysis Services in-db data results in a broken visualization.</p> <p><b>Workaround</b> Use a continuous ColorBy expression instead.</p>
TS-26428	<p><b>Summary</b> When using sets from Microsoft SQL Server Analysis Services in a cross table and enabling subtotal and grand total, a configuration error will be displayed in the visualization.</p> <p><b>Workaround</b> None.</p>
TS-26511	<p><b>Summary</b> Synonyms do not show up in the list of available tables and views when using an Oracle in-db connection.</p> <p><b>Workaround</b> None.</p>
TS-27152	<p><b>Summary</b> Not possible to instantiate Teradata .NET driver when opening data from database.</p> <p><b>Workaround</b> None.</p>
TS-26947	<p><b>Summary</b> When having duplicate attribute hierarchy values in a treemap, performing a drilldown using one of the duplicate values will always use the first of the duplicate values as defined by their unique name sort order.</p> <p><b>Workaround</b> Use a user hierarchy.</p>
TS-26413	<p><b>Summary</b> When having duplicate attribute hierarchy values in a cross table and perform a sort on one of the duplicate values, the cross table is always sorted according to the first duplicate value.</p>



Key	Summary/Workaround
	<b>Workaround</b> None.
TS-26929	<p><b>Summary</b> When having duplicate attribute hierarchy values and doing a Color by that attribute hierarchy, duplicate hierarchy values get the same color even though they represent different logical entities.</p> <p><b>Workaround</b> None.</p>
TS-26446	<p><b>Summary</b> When using a dynamic named set from Microsoft SQL Server Analysis Services and setting up a filtering operation that affects the result of the dynamic set, it will result in a broken visualization with the error message, “The data columns from the external connection do not match.”</p> <p><b>Workaround</b> None.</p>
TS-26139	<p><b>Summary</b> Labels for lines from data table may be missing when opening files created in a version older than 4.5.</p> <p><b>Workaround</b> Resave the file in 4.5 or open it in 5.0 and click in the labels again.</p>
TS-25069	<p><b>Summary</b> Colors are not the same when opening a file in TIBCO Spotfire 5.0 as in TIBCO Spotfire 4.5 for a visualization with categorical coloring by a binned column.</p> <p><b>Workaround</b> On the color axis, set a custom expression for the binning instead of the column name.</p>
TS-23916	<p><b>Summary</b> Missing table error messages in Data Relations.</p> <p><b>Workaround</b> None.</p>
TS-26048	<p><b>Summary</b> Loading more than 2 billion rows may lead to faulty behaviour (wrong number of rows in the status bar or possible crashes).</p> <p><b>Workaround</b> Reduce the number of rows in the data table.</p>
SNXT-3689	<p><b>Summary</b> Issues with Data Functions running the local TIBCO Enterprise Runtime for R engine: Running library(sjdbc) throws error when loading required package terrJava due to no JAVA_HOME environment variable set.</p> <p><b>Workaround</b> TIBCO Enterprise Runtime for R does not include its own version of the Java Runtime. The terrJava package (and any packages that depend on it, such as the sjdbc package), require a version of Java 1.6 or higher to be installed and available on the same machine, and the JAVA_HOME environment variable needs to be configured to the path to the Java installation.</p>
TS-26862	<p><b>Summary</b> The number of HTTP connections for the TIBCO Spotfire desktop client is limited to the max value used by the installed Internet Explorer, typically 4 connections. In some cases the performance is improved if more connections are allowed.</p> <p><b>Workaround</b> Open rexedit.exe and locate the key HKEY_CURRENT_USER\ Software\ Microsoft\ Internet Explorer\ Main\ FeatureControl\ FEATURE_MAXCONNECTIONSPER1_0SERVER. Add a new DWORD with the name Spotfire.Dxp.exe and set the value to 8 to get up to 8 connections.</p>
TS-24704	<p><b>Summary</b> Multiple non-aggregated expressions cannot be used on a continuous axis.</p> <p><b>Workaround</b> To get the same behaviour as in earlier versions, use an aggregation method, typically avg, in the axis expressions.</p>
TS-27136	<p><b>Summary</b> Users whose user names contain non-ascii characters might not be able to execute data functions or use predictive analytic tools against a local TIBCO Enterprise Runtime for R for Spotfire engine.</p>

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**Key****Summary/Workaround**

**Workaround** Set your **TMP** directory to a location other than that containing your user name.

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