Spotfire® Business Author and Spotfire® Consumer Release Notes

Software Release 14.2.0

Contents

New Features

The following new features have been added in version 14.2 of Spotfire® Consumer and/or Business Author.

For details about new Spotfire features, see What's New in Spotfire in the Community.

Key	Version	Summary
SPOT-3065	14.2.0	**Manage data table relations from data canvas** In the Spotfire data canvas, the new *Relations* overview provides a visual graph that vividly illustrates how data tables relate to each other. This new interface simplifies the configuration of data table relations and extends this capability to web authors. The improved error identification makes troubleshooting much easier. In Spotfire, data table relations shine when working with more than one data table in the analysis. Relations make it possible to carry over marking and filtering between data tables, and foster the creation of details visualizations, empowering users to drill down from one visualization to uncover specifics about selected data in another visualization.
SPOT-3299	14.2.0	**More metadata shown for TIBCO Data Virtualization external library items** When you use a TIBCO Data Virtualization (TDV) instance as an external library, you can now see metadata information from TDV about the 'Owner' and the available columns for each table.
TS-72792	14.2.0	**Identity provider authentication in Microsoft SQL Server connections** You can now use an identity provider for authentication in data connections to Microsoft SQL Server. With the *Identity provider (OAuth2)* authentication method, you can enable a convenient log-in experience for connecting to your databases. To learn more, see Single sign-on with an identity provider (OAuth2) for connectors.
TS-74949	14.2.0	**Microsoft SQL Server Analysis Services driver now included in Spotfire** The driver that is required to use the Microsoft SQL Server Analysis Services (SSAS) connector is now included with the Spotfire installation. This means you no longer have to install a separate driver on your computer to access data from SSAS. Note that the SSAS connector is not available when you run a Spotfire Web Player on Linux, because there is no Linux-compatible driver.
TS-75813	14.2.0	**Keyboard shortcuts added in the web client** A number of keyboard shortcuts previously only available in the installed client now work in the web client as well. For example, you can now use keyboard shortcuts to mark all filtered rows (Ctrl+A), filter out marked rows (Ctrl+Shift+M), reset all filters (Ctrl+R), delete all marked rows (Delete), and duplicate the active page (Ctrl+D).

Changes in Functionality

The following are changes in functionality in version 14.2 of Spotfire® Consumer and/or Business Author.

Key	Version	Summary
TS-75650	14.2.0	**Headers remain visible in the filter panel when scrolling** When scrolling in the filter panel, table and group headers now remain visible.

Deprecated and Removed Features

Deprecated features

The table lists features that are deprecated and will be removed in a future release of Spotfire®
Consumer and/or Business Author.

Key	Version	Summary
TS-75213	14.2.0	IronPython 2.0 is deprecated and will be removed in a future version. The possibility to run existing IronPython 2.0 scripts has been switched off by default, but can be switched on by an administrator using the new preference *Allow IronPython 2.0 scripts to execute*. Deprecated since Spotfire 14.1.0.

Removed features

No features have been removed in this release of Spotfire® Consumer and/or Business Author.

Third Party Software Updates

The following third party software (TPS) components have been added or updated in version 14.2 of Spotfire® Consumer and/or Business Author.

Key	Version	Summary
TS-74091	14.2.0	ClearScript version 7.4.4 added
TS-75953	14.2.0	HtmlAgilityPack updated to 1.11.57
TS-75941	14.2.0	Magick.NET-Q16-AnyCPU updated to 13.5.0
TSDC-7326	14.2.0	TIBCO Data Virtualization ADO.NET Driver updated to 8.8.0
TS-75942	14.2.0	mono/SkiaSharp updated to 2.88.7
TS-75972	14.2.0	preact updated to 10.19.3
TS-75940	14.2.0	- Microsoft.AspNetCore.Authentication.Certificate updated to 6.0.26 - Microsoft.AspNetCore.JsonPatch updated to 6.0.26 - Microsoft.AspNetCore.Mvc.NewtonsoftJson updated to 6.0.26

Closed Issues

The table lists closed issues in version 14.2 of Spotfire® Consumer and/or Business Author.

Key	Version	Summary
TS-75133	14.2.0	Custom panels cannot be toggled on and off from the View menu.
TS-75201	14.2.0	The graphics in the map chart zoom overlay are not rendered correctly in some web browsers.
TS-75278	14.2.0	When adding a visualization mod in development to the page, it disappears from the visualization flyout.
TS-75386	14.2.0	When using on-demand data tables, internal structures can sometimes be rebuilt unnecessarily, which leads to information link metadata being fetched more often than needed.
TS-75477	14.2.0	Double-clicking the inner range of a range filter does not filter to that range.
TS-75544	14.2.0	The Image from URL Renderer obtains cached image results that do not align with the list of allowed URLs for the current user group.
TS-75552	14.2.0	Switching between pages in an analysis while data is being fetched can sometimes cause visualization mods to leak memory.
TS-75602	14.2.0	A script attached to a document property can trigger itself infinitely by updating the property. The maximum number of times a script can trigger itself is now limited to 20.
TS-75734	14.2.0	Attempting to copy a visualization or page sometimes causes Spotfire to close unexpectedly.
TS-75763	14.2.0	Renaming a data table column, then loading empty data, and finally loading the actual data again can sometimes make the renaming disappear.
TS-75783	14.2.0	If sending an `OpenedLifeCycleEvent`, a `CanceledLifeCycleEvent`, or a `ClosedLifeCycleEvent` fails, the server can respond in a way that assumes the opening is in progress indefinitely.
TS-76011	14.2.0	If you accidentally click instead of drawing a rectangle when attempting to zoom in a visualization, Spotfire closes unexpectedly.
TS-76041	14.2.0	Relation expressions specifying an aggregation and nothing else give the wrong result when propagating marking and filtering.
TS-76152	14.2.0	When setting indexed properties from IronPython using a `CategoryKey`, Spotfire closes unexpectedly with a `StackOverflowException`.
TS-76183	14.2.0	When a relation uses an external data table, and the other data table in that relation is configured to *Exclude filtered out values* from the external table, and also, the column being filtered in the external table is the column used in the relation expression, then the propagated filtering is wrong.

Key	Version	Summary
TS-76188	14.2.0	You cannot open an analysis containing a data connection with saved credentials, if you change the authentication method in the data source to a method that does not support saved credentials.
TS-76267	14.2.0	It is not possible to load on-demand data from an information link if the ID of a column used to filter by has been changed, but the original name of the column still remains.
TSDC-7349	14.2.0	When you access data from MongoDB Connector for BI with the connector for MySQL, data that contains Japanese characters is not imported correctly.

Known Issues

The following are known issues in version 14.2 of Spotfire® Consumer and/or Business Author.

Key	Version	Summary
TS-66946	14.2.0	**Scheduled updates cache not available for Web Player service on Linux** The scheduled updates cache is not available when running a Web Player service on Linux. This means that if a Linux node running scheduled updates is restarted, scheduled updates will need to load the data from the sources again, rather than reading data from the cache on disk.
TS-67656	14.2.0	**"Unable to write data" error message** Error message `"Unable to write data to the transport connection: An established connection was aborted by the software in your host machine."` If you see this error, then the data being uploaded to the service is too large. When a Spotfire data function is run, it sends the relevant data from Spotfire to the service for processing. The service has a file size upload limit, the default of which is 100 MB. When a data function is run with data that exceeds this limit, the service returns the error. An administrator can change this upload limit if needed by creating a custom configuration. For more information, see the topic "File size upload limit" in the service *Installation and Administration* guide. If users see this error message, the administrator can consider creating a custom configuration that increases the limits for both of the following properties: • `spring.servlet.multipart.max-file-size`: The total file size for upload cannot exceed the value for this setting. • `spring.servlet.multipart.max-request-size`: The total request size for a multipart file upload cannot exceed the value for this setting. **Note:** At a certain point, the Java Heap size fails to handle very large files. The threshold for this behavior is dependent on the amount of RAM the service node has. When the Java Heap Size is exceeded, the following error message is displayed. `Error from Remote Service: Internal Server Error (500) - java.lang. OutOfMemoryError: Java heap space`
TS-68596	14.2.0	**Operating system affects how fonts are rendered** Fonts might be rendered differently depending on the operating system of the Spotfire client used when creating or using an analysis. For example, a Web Player service running on Linux might render font ligatures (where certain combinations of letters, e. g., "fi", are joined to form a single glyph), whereas a Web Player on Windows will not render ligatures.
TSAS-1123	14.2.0	**Encrypting services' configuration files not supported on Linux** You cannot encrypt configuration files for Automation Services and Web Player Services on Linux. **Workaround**: None
TSDC-6982	14.2.0	**The default MariaDB ODBC driver does not work on Debian 11** On Debian 11, the default MariaDB ODBC driver (available through `apt-get install odbc-mariadb`) does not work with the Spotfire connector for MySQL. **Workaround:** Install the driver from mariadb.com or from the Sid feed of Debian.

Migration and Compatibility

The following are instructions on how to migrate from a previous release to version 14.2 of Spotfire®
Consumer and/or Business Author.

Migrating from a Previous Release

Follow the instructions in the Spotfire® Server and Environment – Installation and Administration
Manual to upgrade and configure the Spotfire environment for users of Spotfire Consumer and/or
Business Author.

Compatibility Versions

You can use Spotfire 14.2 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 Spotfire 14.2 are updated to versions 14.1 and 14.0 LTS. This means
that .dxp analysis files that you create and save in Spotfire 14.2 can be opened in older versions of
Spotfire that have the compatibility version for versions 14.1 or 14.0 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.

Version	Compatibility versions
14.2	14.1, 14.0 LTS
14.1	14.0 LTS, 12.0 LTS
14.0 LTS	12.5, 12.0 LTS
12.5	12.4, 12.0 LTS
12.4	12.3, 12.0 LTS
12.3	12.2, 12.0 LTS
12.2	12.1, 12.0 LTS
12.1	12.0 LTS, 11.4 LTS
12.0 LTS	11.8, 11.4 LTS
11.4 LTS	11.3, 10.10 LTS
10.10 LTS	10.9, 10.3 LTS

File compatibility example

For example, when you create a .dxp analysis file in Spotfire 14.2, the file is saved with
compatibility versions for 14.1 and 14.0 LTS. You can open the .dxp file in any older Spotfire
version that either *is* one of those versions, or has 14.1 or 14.0 LTS as compatibility versions.

That means you can open the .dxp analysis file that you saved in Spotfire 14.2 in the following
older versions: 14.1, 14.0, and 12.0 LTS.

Spotfire Documentation and Support Services

For information about the Spotfire® products, you can read the documentation, contact Spotfire Support, and join the Spotfire Community.

How to Access Spotfire Documentation

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

The website is updated frequently and is more current than any other documentation included with the product.

Spotfire Documentation

The documentation for all Spotfire products is available on the Spotfire Documentation page. This page takes you directly to the latest version of each document.

To see documents for a specific Spotfire product or version, click the link of the product under 'Other versions', and on the product page, choose your version from the top right selector.

Release Version Support

Some release versions of 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://spotfi.re/lts.

How to Contact Support for Spotfire Products

You can contact the Support team in the following ways:

- For accessing the Support Knowledge Base and getting personalized content about products you are interested in, visit the support portal at https://spotfi.re/support.

- For creating a Support case, you must have a valid maintenance or support contract with Cloud Software Group, Inc. You also need a user name and password to log in to https://spotfi.re/support. 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 https://spotfi.re/sr.

How to join the Spotfire Community

The Spotfire Community is the official channel for Spotfire customers, partners, and employee subject matter experts to share and access their collective experience. The 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 Spotfire products. In addition, users can submit and vote on feature requests from within the Ideas Portal. For a free registration, go to https://spotfi.re/community.

Legal and Third-Party Notices

Addendum to Legal and Third-Party Notices

```
                        Apache License
                  Version 2.0, January 2004
                http://www.apache.org/licenses/

    TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

    1. Definitions.

       "License" shall mean the terms and conditions for use, reproduction,
       and distribution as defined by Sections 1 through 9 of this document.

       "Licensor" shall mean the copyright owner or entity authorized by
       the copyright owner that is granting the License.

       "Legal Entity" shall mean the union of the acting entity and all
       other entities that control, are controlled by, or are under common
       control with that entity. For the purposes of this definition,
       "control" means (i) the power, direct or indirect, to cause the
       direction or management of such entity, whether by contract or
       otherwise, or (ii) ownership of fifty percent (50%) or more of the
       outstanding shares, or (iii) beneficial ownership of such entity.

       "You" (or "Your") shall mean an individual or Legal Entity
       exercising permissions granted by this License.

       "Source" form shall mean the preferred form for making modifications,
       including but not limited to software source code, documentation
       source, and configuration files.

       "Object" form shall mean any form resulting from mechanical
       transformation or translation of a Source form, including but
       not limited to compiled object code, generated documentation,
       and conversions to other media types.

       "Work" shall mean the work of authorship, whether in Source or
       Object form, made available under the License, as indicated by a
       copyright notice that is included in or attached to the work
       (an example is provided in the Appendix below).

       "Derivative Works" shall mean any work, whether in Source or Object
       form, that is based on (or derived from) the Work and for which the
       editorial revisions, annotations, elaborations, or other modifications
       represent, as a whole, an original work of authorship. For the
purposes
       of this License, Derivative Works shall not include works that remain
       separable from, or merely link (or bind by name) to the interfaces of,
       the Work and Derivative Works thereof.

       "Contribution" shall mean any work of authorship, including
       the original version of the Work and any modifications or additions
       to that Work or Derivative Works thereof, that is intentionally
       submitted to Licensor for inclusion in the Work by the copyright owner
       or by an individual or Legal Entity authorized to submit on behalf of
       the copyright owner. For the purposes of this definition, "submitted"
       means any form of electronic, verbal, or written communication sent
       to the Licensor or its representatives, including but not limited to
       communication on electronic mailing lists, source code control
systems,
       and issue tracking systems that are managed by, or on behalf of, the
       Licensor for the purpose of discussing and improving the Work, but
       excluding communication that is conspicuously marked or otherwise
       designated in writing by the copyright owner as "Not a Contribution."
```

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

  (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

  (b) You must cause any modified files to carry prominent notices stating that You changed the files; and

  (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

  (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

  You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS