TIBCO Spotfire® Analyst Release Notes

Software Release 11.4 LTS (11.4.0)

Contents

New Features

The following new features have been added in version 11.4 of TIBCO Spotfire® Analyst.

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

Key	Version	Summary
SPOT-499	11.4.0	**Parallel data loading and computing** Data is now loaded and computed in parallel when opening an analysis file. This can shorten the data loading time when you use data from multiple data sources. You will also get all (non-error) prompts up front, which means that data loading can continue until completed, without interruptions for prompts. Using the installed client, it is possible to switch off the parallel data loading entirely under **Tools > Options > Document > Data loading**, or, for a single analysis, through **File > Document properties > Compatibility Settings**. An administrator can also control the preferences for a group in **Administration Manager > Preferences > Application > DataImportPreferences**.
SPOT-1440	11.4.0	**Single-tenant authentication support for SharePoint Online Lists** The TIBCO Spotfire Connector for SharePoint Online Lists now supports single-tenant authentication.
TS-65517	11.4.0	**Improved feature rendering in map charts** Spotfire uses geometry simplification techniques to facilitate the rendering of detailed features on spatial maps, still preserving essential shapes. However, for rectangle features that are typically represented by 4 or 5 points, the simplification might cause rendering inconsistencies. In such cases you can specify the number of points below which geometry simplification will not be used for features with less than 6 points.
SPOT-1445	11.4.0	**Databricks SQL Analytics support** The TIBCO Spotfire connector for Apache Spark SQL now supports Databricks SQL Analytics. You can now perform self-service visual data discovery on data lake data using live pushdown querying in Databricks clusters which have SQL Analytics enabled.
TS-66349	11.4.0	**Custom repository setting for Python packages** The Spotfire administrator can now set a custom Python package repository for use with **Python Tools**. To specify a custom repository for data function authors, from the Spotfire Administration Manager Preferences dialog, set **DataFunctions > DataFunctionPreferences > PythonPackageRepositoryIndexURL.**
TS-66059	11.4.0	**Improved user action logging** Changing page through an IronPython script is now logged in the user action log.
SPOT-374	11.4.0	**Trellising multiple layers in a map chart** The trellising of a map chart can now comprise more than one layer of data. This makes it possible to compare multiple measures or categories of data within a single geographical or diagrammatic map.
SPOT-1455	11.4.0	**Improved performance for visualization mods** The performance of visualization mods has been significantly improved. The transfer of data (rows and hierarchies) is now at least 100% faster for large data views and on par with the performance of native visualizations.

Key	Version	Summary
SPOT-1351	11.4.0	**Automatic proxy detection** Python Tools Package Management now attempts to detect system proxy settings automatically and uses them if they are available when searching for, or installing, Python packages. Additional custom configuration options have been added to the Administration Manager.
SPOT-1191	11.4.0	**Added options for library items in the Files and data flyout** It is now possible to rename and delete items in the Spotfire library directly from the Files and data flyout. You can also copy links to library items to share them with others. To access the new options, right-click a library item in the Spotfire library section of the Files and data flyout.

Changes in Functionality

The following are important changes in functionality in version 11.4 of TIBCO Spotfire® Analyst.

Key	Version	Summary
TSDC-6660	11.4.0	For the TIBCO Data Virtualization connector the property enableFlood is activated for requests from Spotfire, which could make communication with TIBCO Data Virtualization unstable.
TSDC-6526	11.4.0	**Improved import performance for the PostgreSQL connector** The `UseDeclareFetch` option is now enabled in the TIBCO Spotfire PostgreSQL connector to improve import performance.
TSDC-6525	11.4.0	**Disabled caching improves import performance** In the TIBCO Spotfire MySQL connector, the `NO_CACHE`, `FORWARD_CURSOR` and `PREFETCH` options are now used to improve import performance.
TSDC-6516	11.4.0	**Performance changes for importing data with Amazon Redshift connections** To improve performance when you import data from Amazon Redshift, the option `SingleRowMode` is now enabled by default. You can override this by adding the `SingleRowMode` option in the **Additional settings** table and setting the value to `0`.
TS-66631	11.4.0	**Automatic signaling of render complete** A visualization mod automatically signals render complete when an error overlay is shown.
TS-66560	11.4.0	**New location for SetupLauncher when installing Spotfire** SetupLauncher, the program that performs the installation of a new version of Spotfire Analyst, is now downloaded from the deployment area to a folder in the user's AppData folder instead of a Temp folder. The locally installed version of the program has been removed from the Modules folder.
TS-66555	11.4.0	**Increased max length of string mod properties** The maximum allowed length for mod properties of string type is now 100KB instead of 2KB.
TS-66550	11.4.0	**Updated Python interpreter** The Python interpreter included with Spotfire has been updated to version 3.8.10.
TS-66507	11.4.0	**The Spotfire package available for download on PYPI** The Spotfire package is now a package available on PYPI and can be downloaded by using the standard pip command. This change makes creating packages for distribution simpler. If you are using your own Python interpreter, you can simply install the 'spotfire' package using pip instead of extracting the wheel from the distribution and installing it.

Key	Version	Summary
TS-66505	11.4.0	**The spotfire Python module moved from the Core module to the Python Interpreter module** The `spotfire` Python module for Analyst support of Python data functions has moved from the `Core` module to the `Python Interpreter` module. If the Spotfire Server administrator has deployed a custom Python interpreter package to the Spotfire Server, then attempts to run data functions fail with errors about the `spotfire` module (and mention using `pip install`). This failure with errors will continue until the Spotfire Server administrator deploys to the Spotfire Server a new custom Python interpreter package that is built with version 1.3.0 (or later) of the `spotfire` Python package.
TS-65168	11.4.0	**Save login information in Cloud Analyst** The 'Save my login information' option is now available for people connecting using TIBCO Cloud Spotfire Analyst.
SPOT-1283	11.4.0	**Unified experience for saving to, and browsing in, the library** The same UI and style in the Files and data flyout is now used when saving an analysis in the Spotfire library as when browsing the library. This unified experience is available in the installed client as well as the web client.

Deprecated and Removed Features

Deprecated features

The table lists features that are deprecated and will be removed in a future release of TIBCO Spotfire®
Analyst.

Key	Version	Summary
TS-66424	11.4.0	The jQuery 1.12.4 and jQuery UI 1.9.2 JavaScript libraries will not be distributed with future releases of TIBCO Spotfire®. Your use of these third party libraries, whether in this release, past releases, or future releases of TIBCO Spotfire, is at your own discretion, and 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. Deprecated since Spotfire 11.4.0.
TS-63679	11.4.0	The API to create requests to the server APIs , `WebRequestFactory.CreateSpotfireWebRequest()`, has been deprecated in this release. All requests to the server should be made using the standard APIs `WebRequest.CreateHttp` or `WebRequest.CreateDefault` instead. Authentication and authorization to the server APIs is done using OAuth2 and registered API client credentials. See the following documentation for more information. Spotfire Server SOAP APIs Spotfire Server REST APIs Web Services API Reference Library REST API Deprecated since Spotfire 10.10.0.

Removed features

No features have been removed in this release of TIBCO Spotfire® Analyst.

Closed Issues

The table lists important closed issues in version 11.4 of TIBCO Spotfire® Analyst.

Key	Version	Summary
TSS-28534	11.4.0	The property `InformationLinkTimeoutMinutes`, which you can use in the Information Designer to set a timeout for individual information links, is not documented.
TSDC-6649	11.4.0	Authenticating a SharePoint Online connection using the client information from preferences fails in the installed client with an error message stating that the client is public.
TSDC-6623	11.4.0	Google Analytics is mentioned in the documentation about using a credentials profile with Google data, but usage of credential profiles is not yet supported in the TIBCO Spotfire Google Analytics connector.
TSDC-6583	11.4.0	For the TIBCO Spotfire connectors for Drill, Dremio, and Snowflake, connections are not closed properly. This results in an accumulation of open connection handles. For example, in the case of Snowflake connections, when logging is enabled, the driver sometimes does not release log file handles until the connection is closed. This causes the process to eventually run into the limit of allowed number of open file handles.
TSDC-6575	11.4.0	In the documentation there is not enough information about admin consent issues in Microsoft Azure when connecting to SharePoint Online.
TSDC-6566	11.4.0	When using the Google BigQuery connector to import data, the import sometimes consumes a lot of memory, which might lead to performance issues.
TS-66784	11.4.0	It is not possible to reload an embedded data table when it is based on an on-demand source and has added rows from a different data source.
TS-66734	11.4.0	Sometimes it is not possible to zoom in or out in the map chart using the + and - buttons that are available in the visualization, even though it should be possible.
TS-66729	11.4.0	Preference values that are specified in a cobranding package are not used the first time a different user than the previous user logs in.
TS-66723	11.4.0	If an error occurs while signing in to SharePoint Online using the TIBCO Spotfire SharePoint Online connector, the real error is hidden by a more general error.
TS-66649	11.4.0	For some Microsoft Excel cells that use array formulas, empty values are incorrectly imported.
TS-66531	11.4.0	After installing TIBCO Spotfire version 10.9 or higher on a computer where another version is already installed, it is not possible to uninstall any of the versions. With this fix, uninstalling TIBCO Spotfire no longer leaves unwanted files on disk, when multiple versions have been installed on the same computer.
TS-66522	11.4.0	Loading information links might cause issues when running several TIBCO Spotfire Server instances (clustered TSS).
TS-66462	11.4.0	Right-clicking top scale labels in a heat map results in errors in some situations.

Key	Version	Summary
TS-66343	11.4.0	In some cases it is possible to replace individual values from the UNIQUE values overview in the column details in the Data in analysis flyout even though it should not be possible.
TS-66342	11.4.0	Memory usage increases when running a specific script that applies a large number of markings in an analysis with wide data and a tabular visualization.
TS-66338	11.4.0	In a scatter plot, the Spotfire client sometimes closes unexpectedly when switching between post-aggregating expressions on an aggregated axis using Time as the data type.
TS-66320	11.4.0	A certain script, which applies a large number of markings in an analysis with wide data, runs much slower in version 10.x and 11.x of Spotfire compared to version 7.x.
TS-66247	11.4.0	Sometimes, usage.log files that contain cluster identifiers are not parsed correctly.
TS-66244	11.4.0	Map charts sometimes stop updating when panning is done on a page with iframes on it, for example JSViz or visualization mods.
TS-66219	11.4.0	Spotfire closes unexpectedly when all values are deleted from a drop-down list with fixed values during editing of a text area.
TS-66186	11.4.0	When exporting a trellised scatter plot, only the image labels for the first trellis panel are exported when the display option 'Image from URL' is used.
TS-66143	11.4.0	Frozen columns originating from data functions disappear when opening the analysis.
TS-66105	11.4.0	The location search field and button are pushed behind the other navigation controls in some trellised map charts.
TS-65984	11.4.0	If you use Spotfire Service for Python to run Python data functions, and you use Spotfire Statistics Services to run TERR data functions, then the client (either Spotfire Analyst or Spotfire Business Author) can mistakenly try to run the TERR data functions in a nonexistent TERR service, rather than Spotfire Statistics Services, causing the data function to wait indefinitely.
TS-65973	11.4.0	File URIs do not work in the "Image from URL" renderer.
TS-65953	11.4.0	When exporting a prepared report to PDF, headers and footers are sometimes rendered incorrectly.
TS-65520	11.4.0	Failure to persist author trust to the server is not reflected in the mods trust dialogs.
TS-48313	11.4.0	The documentation about use of prepocessor expressions (for example, when using document properties inserted as text) is not clear enough. See Properties in Expressions and related topics.
TS-38646	11.4.0	The documentation about marking in visualizations contains too little detail about the behavior when using Ctrl+A.

Known Issues

There are no important known issues to report in version 11.4 of TIBCO Spotfire® Analyst.

Installation

The following are instructions on how to install version 11.4 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 11.4

1. First install/upgrade the TIBCO Spotfire® Server to version 11.4.

2. Deploy the TIBCO Spotfire® 11.4 distribution on the TIBCO Spotfire® Server 11.4.

3. Finally, install TIBCO Spotfire® Analyst 11.4 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 11.4 of TIBCO Spotfire® Analyst.

Upgrading from Previous Version without Installing

1. First install/upgrade the TIBCO Spotfire® Server to version 11.4.

2. Deploy the TIBCO Spotfire® 11.4 distribution on the TIBCO Spotfire® Server 11.4.

3. Start the old version of TIBCO Spotfire® Analyst, log on to the TIBCO Spotfire® Server 11.4 and accept the update.

With Spotfire 10.3, a trust mechanism for data functions was introduced. Also, the trust stamp was changed to be calculated with SHA-512. Therefore, when updating from an older version to 10.3 or later, the trust stamps in all Spotfire analysis files in the library that include IronPython scripts, JavaScripts, data connection custom queries or data functions must be updated. New server CLI commands called "find-analysis-scripts" and "trust" can be used to find and update or automatically trust old scripts and data functions in your library. For more information, see the TIBCO Community article: https://community.tibco.com/wiki/script-and-data-function-trust-spotfire-103-and-later.

Compatibility Versions

You can use TIBCO Spotfire 11.4 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 11.4 are updated to versions 11.3 and 10.10 LTS. This means that .dxp analysis files that you create and save in Spotfire 11.4 can be opened in versions 11.3 and 10.10 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
11.4 LTS	11.3, 10.10 LTS
11.3	11.2, 10.10 LTS
11.2	11.1, 10.10 LTS
11.1	11.0, 10.10 LTS
11.0	10.10 LTS, 10.3 LTS
10.10 LTS	10.9, 10.3 LTS
10.9	10.8, 10.3 LTS
10.3 LTS	10.2, 7.11 LTS
7.11 LTS	7.11 LTS

File compatibility example

For example, when you create a `.dxp` analysis file in Spotfire 11.3, the file is saved with compatibility versions for 11.2 and 10.10 LTS. You can open the `.dxp` file in any older Spotfire version that either *is* one of those versions, or has 11.2 or 10.10 as compatibility versions.

That means you can open the `.dxp` analysis file that you saved in Spotfire 11.3 in the following older versions: 11.2, 11.1, 11.0 and 10.10 LTS.

Newer and older versions of Spotfire Analyst client can be used to connect to the current version of Spotfire Server in order to upgrade or downgrade the client packages. However, it is recommended to always run the same version of client and server in production environments. See System Requirements.

TIBCO Documentation and Support Services

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

How to Access TIBCO Documentation

Documentation for 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.

TIBCO Spotfire Documentation

The documentation for all Spotfire products is available on the TIBCO 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 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

Get an overview of TIBCO Support. You can contact TIBCO Support in the following ways:

• 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. For a free registration, go to https://community.tibco.com.

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

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