

Spotfire® Application Release Notes

Software Release 14.5.0

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Spotfire Application Release Notes

This document covers the release notes for version 14.5 of all Spotfire end-user applications.

This includes the installed Spotfire client, previously known as Spotfire Analyst, as well as the web client.



Depending on your purchased license and the license features enabled by your Spotfire administrator, you might see information related to functionality that is not applicable to you in this document.

See the [Spotfire License Information](#) page and the [License feature reference](#) page in the *Spotfire® Server and Environment - Installation and Administration* guide for details about licensing.

New Features

The following new features have been added in version 14.5 of the Spotfire® application.

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

Key	Version	Summary
SPOT-3753	14.5.0	Access add-ons on the Spotfire Community site from within Spotfire The <i>Add-ons</i> browser is a new view in the <i>Files and data</i> flyout, where you can browse for visualizations, actions, and demo analyses available on the Spotfire Community site, and open them directly in Spotfire. Add-ons labeled <i>Data science</i> in the browser are supported by Spotfire and can only be downloaded and configured by users with the <i>Spotfire Data Science</i> license. Data science add-ons include industry-specific visualizations and actions for energy and manufacturing, as well as cross-industry capabilities such as time series and missing data analysis. To add or save add-ons and demos from the community via the <i>Add-ons</i> browser, you must have a Spotfire Community account.
TS-77297	14.5.0	More visualization types available for authoring in the web client It is now possible to add and configure box plot, heat map, and summary table visualizations in the Spotfire web client. Previously, they could only be authored in the installed Spotfire client.
TS-80523	14.5.0	Easier to configure a more even routing distribution of web client users over service instances A new setting has been added to the <code>Spotfire.Dxp.Worker.Host</code> configuration, <code>Health_SimulateRoundRobin</code>. When this setting is enabled, the strained limits are tweaked so that the service instance will always be Strained or Exhausted, which will result in a more even routing distribution, similar to round-robin. This can be useful when multiple copies of the same analysis are opened at the same time.
TSDC-7654	14.5.0	Timeout preferences for TIBCO Data Virtualization data connections You can now control the command and connection timeouts for TIBCO Data Virtualization data connections. To set the timeouts, use the new preferences <code>CommandTimeout</code> and <code>ConnectionTimeout</code> under <code>Connectors > TIBCO Data Virtualization</code>.
TSDC-7695	14.5.0	New SSL settings for Cloudera Impala data connections Two new data source properties, <i>Allow self-signed certificate</i> and <i>Allow common name host name mismatch</i>, have been added for the Cloudera Impala data connector.

Key	Version	Summary
SPOT-1798	14.5.0	Snowflake data connector improvements The data connector for Snowflake has received an overhaul. You can now make use of a range of new features when you connect to your Snowflake warehouses: <i>Create and edit Snowflake connections directly in Spotfire</i> You can now create and edit data connections to Snowflake entirely in Spotfire. It is no longer required that you first configure a DSN for the data source on your computer. The connector has a new and improved user interface, with built-in controls for a range of connection settings, as well as support for custom data source properties for controlling other settings in the driver software. <i>Access data from Snowflake in the web client</i> You can now create new data connections in the web client. You can also edit existing connections. This makes it easier to use data from your Snowflake warehouses when you author analyses in the web client. Note: Some connection authoring capabilities, such as configuring prompts, and writing custom queries, are only available when you use the installed client. For details, see the documentation. <i>Custom properties in connection data sources</i> When you create a data connection, you can now configure settings in the driver software that the data connector does not have built-in properties for. Custom properties can be useful for tweaking the connection performance, changing the behavior of a connection, or accessing certain data. <i>Identity provider authentication</i> You can now use an identity provider for authentication in data connections to Snowflake. With the Identity provider (OAuth2) authentication method, you can enable a convenient and secure log-in experience for accessing only the data you have permission to access. To learn more, see Single sign-on with an identity provider (OAuth2) for connectors.
SPOT-1853	14.5.0	One user guide for Spotfire The help content from the installed Spotfire application (previously known as Spotfire Analyst) and the Spotfire web application has now been merged to a single user guide where you can find the help you need regardless of the client you use. Also, the previously separate user guides for the Spotfire Administration Manager and the Spotfire Qualification tools, as well as the <i>Working with Cubes in Spotfire</i> guide have now been included in the new Spotfire User Guide. The help is now always opened in your web browser, but you can download the content from the Spotfire documentation site and configure it for offline use. You can also open or download the user guide as a PDF.
SPOT-2201	14.5.0	Multiple Y-axis scales in the box plot Box plots now support multiple Y-axis scales when the visualization is trellised. Each trellis panel can now scale independently and is adapted automatically to the data. To enable this setting, select <i>One scale for each trellis panel</i> in the Y-axis properties. Using this setting can make it easier to compare distributions across different categories, even if the data analyzed varies significantly in scale.

Key	Version	Summary
SPOT-2224	14.5.0	Add custom marker shapes to create and share shape collections You can now upload and use your own marker shapes in the scatter plot and the marker layer of a map chart. This allows you to use industry-specific symbols, such as oil-and-gas or semiconductor symbols, improving the clarity and branding of your analyses. Create shape collections by uploading images in different formats, including JPG, PNG, and SVG, and share them within teams for reuse across analyses. Adjust the anchor position of added marker shapes for optimal placement in visualizations. You can now also change the anchor position for the Spotfire default shapes. Like the Spotfire default shapes, you can combine the added shapes with other properties and let the data determine the shape, size, and color of the markers in your visualization.
SPOT-2246	14.5.0	Authentication with an identity provider (OAuth2) for WMS layers It is now possible to use an identity provider (OAuth2) to log in to a web map services (WMS) server when adding map data to a map chart. This gives you secure access to WMS servers and you can seamlessly browse and add authenticated sublayers to your map charts. Under <i>Visualizations > Manage external logins</i>, you can see all identity providers used to log in to a WMS server and whose map data is used in visualizations.
SPOT-2251	14.5.0	Cloudera Impala data connector improvements The data connector for Cloudera Impala has received an overhaul. You can now make use of a range of new features when you connect to your Cloudera Impala databases: <i>Access data from Cloudera Impala in the web client</i> You can now create new data connections in the web client. You can also edit existing connections. This makes it easier to use data from your Cloudera Impala databases when you author analyses in the web client. Note: Some connection authoring capabilities, such as configuring prompts, and writing custom queries, are only available when you use the installed client. For details, see the documentation. <i>Modernized look</i> The data connector for Cloudera Impala has a new and improved user interface for connecting to your databases. <i>Custom properties in connection data sources</i> When you create a data connection, you can now configure settings in the driver software that the data connector does not have built-in properties for. Custom properties can be useful for tweaking the connection performance, changing the behavior of a connection, or accessing certain data.

Key	Version	Summary
SPOT-2270	14.5.0	Oracle data connector improvements The data connector for Oracle has received an overhaul. You can now make use of a wide range of new features when you connect to your Oracle databases: <i>Access data from Oracle in the web client</i> You can now create new data connections in the web client. You can also edit existing connections. This makes it easier to use Oracle data when you author analyses in the web client. Note: Some connection authoring capabilities, such as configuring prompts, and writing custom queries, are only available when you use the installed client. For details, see the documentation. <i>Modernized look</i> The Oracle data connector has a new and improved user interface for connecting to your Oracle databases across all Spotfire clients. <i>Custom properties in connection data sources</i> When you create a data connection, you can now configure settings in the driver software that the data connector does not have built-in properties for. Custom properties can be useful for tweaking the connection performance, changing the behavior of a connection, or accessing certain data. For example, you can configure pooling settings with the <code>Min Pool Size</code> and <code>Pooling</code> custom properties. <i>Identity provider authentication</i> You can now use an identity provider for authentication in data connections to Oracle. With the Identity provider (OAuth2) authentication method, you can enable a convenient and secure log-in experience for accessing only the data you have permission to access. To learn more, see Single sign-on with an identity provider (OAuth2) for connectors.
SPOT-2836	14.5.0	Optional prompts in data connections You can now configure prompts in data connections to be optional or required. Optional prompts can be skipped without any user input, which gives you greater flexibility when you use prompts in data connections. By default, new prompts are required, just like before.
SPOT-2837	14.5.0	Improved multiple selection prompts in data connections When you open a data connection with a prompt of the type multiple selection, you can now choose to either load the list of values to select from, or type the list of values manually. Entering the values manually can be helpful for scenarios where loading all available values is not optimal for performance, or if you want to select a long list of different values in the prompt. As an author, you can configure multiple selection prompts to automatically load all values, or you can let the user choose if they want to enter values manually or load the list of values to select from.

Key	Version	Summary
SPOT-3432	14.5.0	New license feature for Information Designer There is a new license feature, <i>Element Administration</i>, that gives users the right to create and edit elements in Information Designer. Elements, such as columns, procedures, and filters, are the building blocks for information links. With the addition of this license feature, you can create separate groups for users with full permissions to create data sources and information link elements, and users who should only be able to create information link elements.
SPOT-3484	14.5.0	Updated driver support for Oracle Essbase connector The data connector for Oracle Essbase now supports version 21.x of the Essbase Client for Windows.
SPOT-3535	14.5.0	New supported Citrix version Citrix Virtual Apps and Desktops 2203 LTSR is now supported for the installed Spotfire client.
SPOT-3632	14.5.0	New Oracle functions and data types The data connector for Oracle now supports using the following Oracle functions for in-database data tables: • CONCAT • LASTDAY • NEXTDAY • MONTHS_BETWEEN • ADD_MONTHS Additionally, the connector now supports the Oracle data type XMLType. In Spotfire, such columns get the Spotfire data type String.
SPOT-3633	14.5.0	Oracle data connector driver included You can now use the connector for Oracle without having to install the Oracle driver yourself. The required driver now comes included with Spotfire.
SPOT-3666	14.5.0	New Spotfire products and licensing Spotfire 14.5 (and 14.0.8) introduces support for the new Spotfire license model. For more information about the difference between the legacy license model and the new license model see Spotfire licenses and license features in the <i>Spotfire® Server and Environment - Installation and Administration</i> documentation. The license model to use is determined by your current contract. For a new installation of Spotfire Server 14.5 or 14.0.8 and later, the default is that the new license model is used. Customers that have contracts with the legacy license model must change the product license version manually using the server CLI command <code>set-config-prop</code>.
SPOT-3676	14.5.0	Support for private endpoints in Google BigQuery data connections With the Google BigQuery connector, you can now access data hosted in private Google Cloud environments. You can configure the private endpoint settings in individual data connections, or you can configure default values to be used for all users in a group (using preferences under <i>Connectors > Google BigQuery</i> in Administration Manager).

Key	Version	Summary
SPOT-3699	14.5.0	Support for Parquet files Spotfire can now read data from Parquet files, as well as write data to Parquet files. The current implementation primarily supports reading from and writing to Parquet files in local storage. Parquet data types are mapped to supported data types in Spotfire.
SPOT-3720	14.5.0	Prompt groups in data connection prompts You can now use prompt groups when you define prompting for a data connection. Prompts in different groups are independent of each other. That is, your selection in a prompt in one prompt group does not limit the selections available for prompts in a different group.

Key	Version	Summary
SPOT-3739	14.5.0	Action mods enhancements Significant updates in the action mods framework and API are now available, unlocking more diverse and complex use cases: <i>Run data functions</i> It is now possible to add and configure a data function instance (including built-in data functions) from an action in an action mod. This means that, from the same action, visualizations can be automatically created to show the outputs from a data function, and that additional operations can be added before or after the data function call. <i>Create, configure, and access visualization mods</i> The API now allows creating, configuring, and accessing visualization mods in the same way as native visualizations. <i>Icons for individual actions</i> Each action in an action mod now has a separate icon, which makes it easier to identify the actions in the <i>Actions</i> flyout as well as on action triggers, such as floating buttons and title bar buttons, in visualizations. <i>Search for individual actions</i> The search feature in the <i>Actions</i> flyout now also includes individual actions within an action mod. <i>Embedded resources in action mods</i> An action mod can now include embedded resources, such as image files or data files, that can be used by the script code and added to the analysis via the API. <i>Data column, data view, and enum inputs</i> The range of input types for actions has been extended with more options in the manifest. Running an action with a data column input parameter will expose the user with a searchable point-and-click user interface to select a data column, or a list of data columns from a specified data table. With enum inputs, the user can make a selection from a drop-down list with options defined by the mod developer. <i>Optional parameters</i> Input parameters can now be declared as optional, which makes action configuration more flexible and efficient. <i>Add images to text areas and map charts</i> Images can now be embedded as resources in an action mod and, through the API, be added to text areas or as image layers in map charts. <i>Add data as binary columns</i> An action mod can now add binary data columns to an analysis, either from files embedded as mod resources or generated from script code.

Key	Version	Summary
SPOT-3837	14.5.0	Pin and search for custom data sources The experience of working with custom data source extensions, which you develop with the SDK in the Spotfire Developer package, is improved: - You can now find custom data sources deployed in your environment when you search in the <i>Files and data</i> flyout. - As an administrator, you can pin custom data sources to the <i>Files and data</i> flyout with the new preference Custom data source locations. You can pin a custom data source directly on the top level of the flyout, or create a folder on the top level to group data sources. By default, custom data sources are available in the <i>Other</i> category.
SPOT-3899	14.5.0	Built-in data functions provided with Spotfire Data Science Nine new data functions covering time series, geoanalytics, and missing data analysis are now included with the Spotfire Data Science license, both in the installed client and in the web client. They can be added to your analysis from the <i>f(x)</i> flyout: - Time series resampling: Returns a resampled version of the provided data table or columns containing time series data. - Time series smoothing: Returns a smoothed version of the provided numerical measurement column, where variations in the data (peaks) have been cut. You can choose from Friedman's supersmoother, LOESS (Locally Estimated Scatterplot Smoothing), or a simple exponential smoothing. - Dynamic time warping: Applies dynamic time warping (DTW) which can be used to compare a set of sequences to a reference sequence, and find similarities between patterns even if the sequence lengths are different. - Missing data summary: Provides a summary of all missing (invalid) values from the input data in the form of three output data tables; 'Missing data (MD) – Summary of input data', 'Missing data (MD) – Row summary', and 'Missing data (MD) – Column summary'. - Geographic distance matrix: Calculates a geographical (spatial) distance matrix within a set of point coordinates, or between two sets of point coordinates. - Geographic nearest neighbors: Calculates nearest neighbors for a given set of points either within the set or with respect to a second set of points. - CRS transformation for coordinates: Projects coordinates from two input coordinate columns to new columns based on a different coordinate reference system (CRS). - CRS transformation for geometries: Projects an input geometry column to coordinate columns based on a different coordinate reference system (CRS). - Geographic area of polygons: Calculates the surface areas for all rows in an input geometry column. Note: To run the built-in data functions in the web client, an administrator must also have installed the Spotfire Service for Python in your environment. Because some of the calculations can take some time to finish, the administrator might also need to adjust the engine timeout settings for the service.
TS-54790	14.5.0	More secure download of packages Checksums are now verified when packages are downloaded.
TS-68444	14.5.0	Localized versions of the Spotfire User Guide available in the web browser You can now read the translated version of the Spotfire User Guide, covering both installed clients and web clients, directly in your web browser.

Key	Version	Summary
TS-70214	14.5.0	Edit calculation settings from the data canvas (installed client only) Using the installed client, you can now edit calculation settings from the data canvas. Select a data source based on a calculated source (for example, a data table from a Data Relationships calculation) in the graphical view of the data canvas, and then, from the step group list, edit the settings in the same way that you edit transformations or on-demand settings.
TS-77892	14.5.0	Opening links to analyses in editing mode You can now append "&author=true" to an analysis URL to open the analysis directly in editing mode.
TS-78149	14.5.0	Use tokens from an external Authorization Server with the Spotfire JavaScript API Clients using the Spotfire JavaScript API to embed Spotfire can now provide a completely seamless authentication experience through the use of tokens issued by an external Authorization Server. Note that the Spotfire Server must be properly configured to use the Token Exchange grant.
TS-78616	14.5.0	Better support for retries of data downloads Analysis and data downloads from the server, can now be retried and Information Services data downloads can now be partially retried. Note: This improvement also requires that you update the Spotfire Server to version 14.5.0 or later.

Key	Version	Summary
TS-79169	14.5.0	Visualization mods enhancements A number of improvements are available for visualization mods, including the following: <i>Defined axis expressions</i> Visualization mods can now be defined with fixed axis expressions using heuristics specified in the mod manifest. This allows mod developers to ensure that a specific expression, such as <code>Count ()</code>, is always used on a designated axis. <i>Non-aggregating axis expressions</i> It is now possible to specify that the initial expression on a continuous axis should be non-aggregating. <i>Undo/redo</i> Visualization mods now support undo/redo for all configuration changes, which provides a more intuitive experience, consistent with native visualizations. <i>Browse and save .mod files in web client</i> You can now browse for, and save, local .mod files also when using the Spotfire web client. <i>Styling follows the visual theme</i> The StylingInfo object in the visualization mods API has been extended with more information describing the visual theme used in Spotfire. As a result, zoom sliders and trellis panel headers now follow the current visual theme. <i>Streaming data updates</i> The DataView object in the visualization mods API has been extended with an <code>isStreamingUpdate</code> property. This allows the mod to more efficiently adapt to updates caused by streaming data.
TS-79393	14.5.0	New menu option to collapse data table filter groups If you have multiple data tables in an analysis, you can now easily collapse all the data table filter groups by right-clicking in the <i>Filters</i> panel and selecting <i>Collapse all data tables</i> from the menu.
TS-79806	14.5.0	Switch off revocation checks It is now possible to switch off revocation checks when verifying certificates.

Key	Version	Summary
TS-80849	14.5.0	More properties added to the new visualization properties panel New configuration and appearance settings are available in the visualization properties panel. You can now, for example, add error bars to the bar chart, line chart, and scatter plot, add totals to the cross table, add comparison circles to the box plot, configure the size of markers, and sort visualizations by different measures. In the KPI chart, more settings are available, such as the option to start each KPI on a new row and to sort the tiles by best or worst. In the map chart, you can now configure the map type, zoom behavior, and more appearance settings. This release also includes several improvements to the interaction design, such as undo/redo, formatting, and heuristics to automatically set up visualization axes. The new visualization properties panel is available in the web client and the installed Spotfire client. Not all visualization properties and functionalities are available yet. The existing properties dialogs can be used side-by-side with this new experience, and they are still the default for configuring visualizations.
TSDC-7476	14.5.0	Identity provider authentication (OAuth2) in Oracle data connections You can now use an identity provider for authentication when you create data connections with the connector for Oracle. With this new authentication method, you can use the Oracle integration with Microsoft Entra ID (formerly Azure AD) as the identity provider in Oracle data connections.
TSDC-7522	14.5.0	Vertica connector support on Linux Web Player services You can now use the data connector for Vertica in the web client when the Web Player service is running on a Linux computer. Note: For use on Linux computers, the Vertica driver must be packaged and deployed as a .spk package. See the driver installation instructions.
TSDC-7678	14.5.0	Use system trust store setting for Apache Spark SQL data connections A new data source property, <i>Use system trust store</i>, is available for the Apache Spark SQL connector. With this property, you can configure data connections to use the trusted certificates in the system trust store on the computer running Spotfire to verify the server identity when you use SSL.
TSDC-7679	14.5.0	Spotfire username as delegated user in Cloudera Impala data connections A new data source property, <i>Use Spotfire username as delegated user</i>, is available for data connections to Cloudera Impala. With this property, you can configure a data connection so that the username of the logged in Spotfire user is used as the delegated user (DelegationUID) in the Cloudera Impala system.
TS-23004	14.5.0	Improved horizontal scrolling in tabular visualizations You can now scroll horizontally in tabular visualizations by pressing Shift while rotating the mouse wheel.

Changes in Functionality

The following are changes in functionality in version 14.5 of the Spotfire® application.

Key	Version	Summary
SPOT-1486	14.5.0	Help now opens in a web browser When you open the help in Spotfire (with a Help button or by pressing F1), the user guide now opens in a web browser and it is no longer bundled inside the application.
SPOT-3225	14.5.0	Skia is now the only supported graphics backend for Web Player on Linux The <code>System.Drawing.Common</code> library is only supported on Windows for .NET 8 and onwards. Skia is now the only supported graphics backend when running Spotfire on Linux.
SPOT-3479	14.5.0	Updated system requirements for Python data functions Python versions 3.7 and 3.8 are no longer supported.
SPOT-3640	14.5.0	Some documentation has moved to the Spotfire application page on the docs site Documentation for the following components, and the following specific manuals, are now packaged and published only as part of the Spotfire application (instead of Spotfire Server). See also <i>New names for the Spotfire applications, new zip files and installers</i>. • Automation Services – User Guide • Qualification (see also <i>One user guide for Spotfire</i>) • Cobranding • Release notes for Spotfire Developer • Python data functions in Spotfire • Deploying and using a Spotfire language pack
SPOT-3709	14.5.0	Communication improvements for Spotfire client requests to the server The communication has been improved between the Spotfire Server and the clients, to make the Spotfire products more stable on unreliable networks.

Key	Version	Summary
SPOT-3866	14.5.0	New names for the Spotfire applications, new zip files and installers The specific product names for the Spotfire applications for Windows and for web clients have been retired. - The Windows application, formerly called <i>Spotfire Analyst</i>, is now referred to as the <i>Spotfire application for Windows</i> (or the installed client). - The web application that you use in your web browser, formerly referred to as <i>Spotfire Business Author and Consumer</i>, is now called the <i>Spotfire application for web</i> (or the web client). Updates to release notes: - The release notes for the installed Spotfire applications and web applications are now presented in a single release notes document called <i>Spotfire Application Release Notes</i>. The following installation package .zip files have new names: - SPOT_sfired-analyst_<version>_shared_computer_win.zip is now called SPOT_sfired-app_<version>_enterprise_shared_computer_win.zip. - SPOT_sfired-analyst_<version>_single_user_win.zip is now called SPOT_sfired-app_<version>_enterprise_single_user_win.zip. The following installation package .zip files have been added: - SPOT_sfired-app_<version>_analytics_win.zip is targeted for users that have bought an Analytics license and do not have a Spotfire Server to connect to. - SPOT_sfired-app_<version>_datascience_win.zip is targeted for users that have bought a Data Science license and do not have a Spotfire Server to connect to.
SPOT-3923	14.5.0	Statistica data functions now require the Spotfire Data Science license To add or configure Statistica data functions to an analysis, the <i>Spotfire Data Science</i> license (and the <i>Add and configure Statistica data functions</i> license feature) is now required.
TS-63046	14.5.0	Order of visualization mod legend items The legend of a visualization mod now shows the color axis legend item as the first item in the list of axis legend items.
TS-63632	14.5.0	Default settings for visualization mods Some default visualization settings specified in <i>Tools > Options</i> are now applied when adding a visualization mod just like in a native visualization. This includes using specific fonts in the description and legend, and whether to show the title and description.
TS-72871	14.5.0	Changed query tags in Amazon Redshift, Apache Spark and Snowflake connections The data connectors for Amazon Redshift, Apache Spark, and Snowflake are updated with changed query tags. The new tags attached to queries to the database are: Amazon Redshift /* Spotfire -v \<VersionNumber> */ Apache Spark Spotfire/<VersionNumber> Snowflake Spotfire_Connector

Key	Version	Summary
TS-78269	14.5.0	New way to switch to offline help To switch to a locally hosted version of the user guide in on-premises environments, you can now use the preference <code>Application > Documentation > ClientDocumentationUrl</code> in Administration Manager. The provided URL works for both the web client and the installed client. This replaces the previous method for switching to offline help for the web client, which involved making changes to the Web Player service configuration. For more information, see Switching to offline client help.
TS-79070	14.5.0	Reduced idle timeout between HTTP Client and Spotfire Server To avoid network errors, the idle timeout between the HTTP Client and Spotfire Server has been reduced. The default value for <code>ConnectionIdleTimeoutSeconds</code> in the configuration file has changed from 50s to 25s.
TS-79549	14.5.0	Information link job timeout changed The job timeout for information links is reduced to 28 seconds (from 30 seconds) to avoid a congestion-related timeout exception.
TS-79602	14.5.0	Sample analysis files removed from Spotfire installation package The sample analysis files are no longer part of the Spotfire installation package. To find sample analyses, go to Demos on the Spotfire Community site.
TS-79633	14.5.0	Changes in the Files and data flyout The <i>Recommended</i> view in the <i>Files and data</i> flyout has been replaced by the new view named <i>Recent</i> where you can find the items you have used most recently. If you have any custom sample files, they will now be shown in a separate view named <i>Samples</i>.

Key	Version	Summary
TS-80725	14.5.0	NumPy package changes might lead to overflow errors unless data functions are updated This version of Spotfire includes an update of the NumPy Python package to version 2.2.4. This change might lead to an <code>OverflowError</code> when doing arithmetic operations with Python scalars in existing Python data functions in certain cases. Starting in NumPy version 2.0.0, operations involving NumPy arrays and Python scalars now follow stricter and more predictable promotion rules, as described in NEP 50 – Promotion rules for Python scalars. This means that inputs that previously were casted to a scalar value in Python will no longer be so automatically. As a Python data function author, you must check and adjust your Python data functions to be compatible with NumPy 2.2.4. For example, imagine that you had a Python data function script with a construction like the following: <pre>out=input + 2147483648</pre> When running this script with a column input of the type 'Integer', you will now get an error, because the number 2147483648 is out of range for an integer: <pre>Traceback (most recent call last): File "<stdin>", line 1, in <module> OverflowError: Python integer 2147483648 out of bounds for int32</pre> One way to handle this is to modify the data function as follows: <pre>out = input.astype("Int64") + 2147483648;</pre>
TSDC-7382	14.5.0	Changed default value for Min Pool Size in Oracle data connections In earlier versions of Spotfire, when you accessed data with the connector for Oracle, a static default value was used for the <code>Min Pool Size</code> connection property <code>Min Pool Size=5</code>. Thanks to the addition of custom data source properties for the Oracle connector, you can now configure the property <code>Min Pool Size</code> in Oracle data connections. If you do not specify a value for the property, the Oracle ODP.NET driver default value is used (currently <code>Min Pool Size=1</code>). The driver default is also used when you open a data connection saved in an earlier version - that is, the previous Spotfire default value is not used.
TSDC-7605	14.5.0	Default length when converting values to string in Oracle connections In Oracle data connections, when you use the <code>CAST</code> function to convert a value to a string, Spotfire now uses a default character length of 50 for the string value. For example, <code>CAST([Int] AS String(50))</code>. In earlier Spotfire versions, an external error could occur when you converted values to strings because the character length was not specified.

Deprecated and Removed Features

Deprecated features

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

Key	Version	Summary
TS-75213	14.5.0	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 <i>Allow IronPython 2.0 scripts to execute</i> . Deprecated since Spotfire 14.1.0.
TS-77285	14.5.0	The command line switches /username and /password have been deprecated, because BASIC authentication has been deprecated on the server. Deprecated since Spotfire 14.5.0.
TS-78507	14.5.0	Export to the legacy Excel file format (.xls) is deprecated and will be removed in a future version. Deprecated since Spotfire 14.5.0.
TS-79184	14.5.0	The external actions functionality has been deprecated and will be removed in a future release. Deprecated since Spotfire 14.5.0.
TSAS-1161	14.5.0	The authentication methods, <i>Username and password</i> and <i>Windows authentication</i> , have been deprecated for the Automation Services Client Job Sender. Instead, OAuth2 API client authentication should be used. Deprecated since Spotfire 14.4.0.
TSDC-7740	14.5.0	The data connector for Attivio is deprecated and will be removed in a future release. Deprecated since Spotfire 14.0.7 and 14.5.0.
TSDC-7741	14.5.0	The data connector for Teradata Aster is deprecated and will be removed in a future release. Deprecated since Spotfire 14.0.7 and 14.5.0.
TSDC-7742	14.5.0	The data connector for TIBCO ComputeDB is deprecated and will be removed in a future release. Deprecated since Spotfire 14.0.7 and 14.5.0.
TSDC-7743	14.5.0	The data connector for Apache HAWQ is deprecated and will be removed in a future release. Deprecated since Spotfire 14.0.7 and 14.5.0.
TSDC-7744	14.5.0	The data connector for TIBCO Cloud™ LiveApps is deprecated and will be removed in a future release. Deprecated since Spotfire 14.0.7 and 14.5.0.

Removed features

The following features have been removed in this version of the Spotfire® application.

Key	Version	Summary
SPOT-3530	14.5.0	Microsoft Office 2013 is no longer supported.
SPOT-3531	14.5.0	The following Citrix versions are no longer supported for the installed Spotfire client: • Citrix XenApp 7.15 • Citrix XenApp 7.6 • Citrix Virtual Apps and Desktops 7 2109
SPOT-3935	14.5.0	The Sharing Routines feature is now officially removed. Sharing Routines has been deprecated since Spotfire 5.5 and hidden from the user interface (the Data Table Properties dialog), unless explicitly enabled through a preference. It has now been retired as part of our ongoing effort to modernize Spotfire and enhance its performance and usability. What does this mean? • Analyses that previously relied on Sharing Routines will now automatically load fresh data, instead of reusing cached data. • To achieve similar results as before, use scheduled updates or information link caching instead, which are supported and designed to provide more reliable and modern data-sharing solutions.
TS-77319	14.5.0	The <i>Column properties</i> dialog in the installed Spotfire client has been removed. With the option to edit data table and column property values from the data canvas, the old Forms-based dialog is no longer needed. You can do everything except freezing columns from either the <i>Data canvas</i> or from the <i>Data in analysis</i> flyout. The freeze columns functionality is still available via the API.
TSDC-7470	14.5.0	The data connector <i>Google Analytics (Universal Analytics)</i>, which was used for accessing legacy Google Analytics data, is removed. The reason is that Google's legacy Universal Analytics service no longer exists.

Third Party Software Updates

The following third party software (TPS) components have been added or updated in version 14.5 of the Spotfire® application.

Key	Version	Summary
TS-80492	14.5.0	Apache Log4Net updated to 3.0.4
TS-80025	14.5.0	Bouncy Castle updated to 2.5.1
TS-80493	14.5.0	Chromium Embedded Framework (when running on Windows) updated to 135.0.17
TS-80219	14.5.0	ClearScript updated to 7.5.0
TS-79918	14.5.0	DocumentFormat.OpenXml updated to 3.2.0
TS-80494	14.5.0	HtmlAgilityPack updated to 1.12.0
TS-79963	14.5.0	IronLanguages/Dynamic Language Runtime updated to 1.3.5
TS-79913	14.5.0	IronPython updated to 3.4.2
TS-79914	14.5.0	IronPython.StdLib updated to 3.4.2
TS-80495	14.5.0	Magick.NET-Q16-AnyCPU updated to 14.6.0
TSDC-7613	14.5.0	Microsoft.AnalysisServices.AdomdClient version 19.87.2 added
TS-78099	14.5.0	Spotfire Enterprise Runtime for R (a/k/a TERR) updated to version 6.1.5
TS-79698	14.5.0	Syncfusion ASP.NET Core Excel Library updated to 28.2.4
TS-79957	14.5.0	System.Runtime.CompilerServices.Unsafe updated to 6.1.0
TS-79060	14.5.0	System.Security.Cryptography.xml updated to 8.0.2
TSDC-7447	14.5.0	TIBCO Data Virtualization ADO.NET Driver updated to 8.8.2
TS-75855	14.5.0	mono/SkiaSharp updated to 3.116.0
TS-78244	14.5.0	mono/libgdiplus removed
TS-80497	14.5.0	preact updated to 10.25.4
TS-80498	14.5.0	preact/signals updated to 2.0.3
TS-79922	14.5.0	system.configuration.configurationmanager updated to 8.0.1

Key	Version	Summary
TS-79026	14.5.0	system.diagnostics.performancecounter updated to 8.0.1
TS-80499	14.5.0	system.drawing.common updated to 8.0.14
TS-78130	14.5.0	underscore js updated to 1.13.7

Key	Version	Summary
TSDC-7530	14.5.0	• Azure.Core version 1.44.1 added • Google.LongRunning version 3.3.0 added • Microsoft.Bcl.TimeProvider version 9.0.3 added • Microsoft.Extensions.DependencyInjection.Abstractions version 9.0.3 added • Microsoft.Extensions.Logging.Abstractions version 9.0.3 added • Microsoft.Identity.Client.NativeInterop version 0.17.2 added • Microsoft.IdentityModel.Logging version 8.6.1 added • Microsoft.IdentityModel.JsonWebTokens version 8.6.1 added • Oracle.ManagedDataAccess version 23.7.0 added • Oracle.ManagedDataAccess.Core version 23.7.0 added • System.Formats.Asn1 version 9.0.3 added • System.Net.Http.WinHttpHandler version 9.0.3 added • Apache.Arrow updated to 18.1.0 • Azure.Identity updated to 1.13.2 • Google.Analytics.Admin.V1Beta updated to 1.0.0-beta09 • Google.Analytics.Data.V1Beta updated to 2.0.0-beta09 • Google.Api.CommonProtos updated to 2.16.0 • Google.Api.Gax.Grpc updated to 4.10.0 • Google.Api.Gax.Rest updated to 4.10.0 • Google.Api.Gax updated to 4.10.0 • Google.Apis.Auth updated to 1.69.0 • Google.Apis.Oauth2.v2 updated to 1.68.0.1869 • Google.Cloud.BigQuery.Storage.V1 updated to 3.17.0 • Google.Cloud.BigQuery.V2 updated to 3.11.0 • Grpc.Core.Api updated to 2.70.0 • IdentityModel.OidcClient updated to 6.0.0 • Microsoft.Data.SqlClient updated to 6.0.1 • Microsoft.Identity.Client updated to 4.69.1 • Microsoft.IdentityModel.Abstractions updated to 8.6.1 • Microsoft.IdentityModel.Protocols.OpenIdConnect updated to 8.6.1 • NodaTime updated to 3.2.1 • System.Data.Odbc updated to 8.0.0 • System.Diagnostics.DiagnosticSource updated to 9.0.3 • System.DirectoryServices.Protocols updated to 9.0.3 • System.IdentityModel.Tokens.Jwt updated to 8.6.1 • System.Resources.Extensions updated to 8.0.0 • System.Text.Encodings.Web updated to 9.0.3 • Teradata.Client.Provider updated to 20.0.3

Key	Version	Summary
TS-80496	14.5.0	• Microsoft.AspNetCore.Authentication.Certificate updated to 8.0.14 • Microsoft.AspNetCore.JsonPatch updated to 8.0.14 • Microsoft.AspNetCore.Mvc.NewtonsoftJson updated to 8.0.14
TS-78048	14.5.0	• Python interpreter updated to 3.12.9 • Python packages: – NumPy updated to 2.2.4 – packaging version 24.2 added – pandas updated to 2.2.3 – pip updated to 25.0.1 – python-dateutil updated to 2.9.0.post0 – pytz updated to 2025.2 – setuptools updated to 78.1.0 – six updated to 1.17.0 – spotfire (Package for Building Python Extensions to Spotfire) updated to 2.3.0 – tzdata updated to 2025.2 – wheel updated to 0.45.1
TS-78239	14.5.0	• System.CodeDom updated to 8.0.0 • System.Collections.immutable updated to 8.0.0 • system.io.packaging updated to 8.0.0 • system.management updated to 8.0.0 • System.Security.Cryptography.pkcs updated to 8.0.0 • System.Security.Cryptography.ProtectedData updated to 8.0.0 • System.Security.Permissions updated to 8.0.0 • system.windows.extensions updated to 8.0.0
TS-80744	14.5.0	• certifi version 2025.1.31 added • dtaidistance version 2.3.13 added • geographiclib version 2.0 added • geopandas version 1.0.1 added • geopy version 2.4.1 added • patsy version 1.0.1 added • pyogrio version 0.10.0 added • pyproj version 3.7.1 added • scipy version 1.15.2 added • shapely version 2.0.7 added • statsmodels version 0.14.4 added • supersmooother version 0.4 added

Closed Issues

The table lists closed issues in version 14.5 of the Spotfire® application.

Key	Version	Summary
TS-3833	14.5.0	If properties are not previously registered but show up when loading data, they are created with a valid value for the data type, for example, the number '0' for integers. However, the expected default value should be null, to be able to separate absence of a value from a valid value. The preference <code>UseNullAsDefaultValueForNewProperties</code> (under <code>DataImportPreferences</code>) has been added to support this scenario. By default, the old behavior is kept.
TS-43962	14.5.0	In the <i>Pivot Data</i> dialog, if you try to apply the row count function <code>Count()</code> (which does not take a column as an argument) on a column, this causes an error and closes the dialog.
TS-53887	14.5.0	In the Spotfire web client, when you open an information link with a prompt for a datetime column with input type range, the default high value for a given date is DD-MM-YYYY 12:00:00 AM instead of DD-MM-YYYY 11:59:59 PM.
TS-60121	14.5.0	Clicking the <i>Minimize</i> button of an annotation opens the annotation in input mode instead of minimizing it.
TS-65670	14.5.0	Depending on the load/creation order of the data tables, it is sometimes impossible to open an analysis file when you have done K-means clustering on a data table which is defined with relations and also filter propagation from it but not to it.
TS-70254	14.5.0	You cannot export an analysis to PowerPoint when the Web Player service is configured to use Kerberos.
TS-72247	14.5.0	When clicking cancel on an analysis which is currently being loaded using scheduled updates, the loading is not cancelled.
TS-72965	14.5.0	When you use Spotfire in a web browser on iOS or Mac, the connection confirmation when you create a connection to Microsoft SQL Server or Apache Spark SQL has incorrect styling.
TS-74023	14.5.0	Spotfire incorrectly names certain fonts, in particular variable fonts on Windows, causing some fonts to be entirely unavailable or confusingly named.
TS-74032	14.5.0	When moving between different connectors in the <i>Connect to</i> list of the <i>Files and data</i> flyout, the <i>New connection</i> button sometimes jumps around.
TS-75555	14.5.0	ESRI (shape file) polygons with multiple outer rings are incorrectly imported as WKB Polygons instead of WKB MultiPolygons.
TS-75961	14.5.0	When you search in the <i>Files and data</i> flyout, it sometimes takes a long time for the search to finish if many of the most recently used files are located in remote file systems.
TS-76504	14.5.0	The documentation about the data table property <i>Prompt for new settings before loading</i> is incorrect.

Key	Version	Summary
TS-76938	14.5.0	When you create or edit a connection with the connectors for Microsoft SQL Server or Apache Spark SQL, pressing the <i>Escape</i> key does not close the <i>Connection</i> flyout.
TS-77017	14.5.0	In the <i>Select columns</i> dialog, the <i>Number of bins</i> input field does not handle invalid values, which sometimes causes Spotfire to close unexpectedly.
TS-77256	14.5.0	The <i>AutoBinNumeric</i> function can generate too few bins when the column formatting does not include enough decimal digits.
TS-77371	14.5.0	When you are looking at the details on a selected category column in the expanded <i>Data in analysis</i> flyout, the <i>Least common</i> values are sorted in a descending order instead of the expected ascending order.
TS-77376	14.5.0	If scrolling has occurred in a visualization mod, tooltips are not shown in their correct positions.
TS-77386	14.5.0	There is no documentation explaining that when a source data table used by a "linked copy to data table in analysis" (a/k/a data table data source) is removed, the previously linked data table becomes embedded.
TS-77398	14.5.0	Marking sometimes does not work as expected if filtering is performed while (Row number) is used on a splitting axis.
TS-77411	14.5.0	The export of map charts with WMS layers never finishes.
TS-77463	14.5.0	The favorites counter for library items is visible even if you do not have the <i>View favorite counter</i> license feature switched on.
TS-77521	14.5.0	When you edit a Microsoft SQL Server connection data source, Spotfire sometimes attempts to fetch the list of databases even if you have entered the database name manually.
TS-77539	14.5.0	In certain scenarios, for example, when a Spotfire Server instance is restarted while a Web Player service continues to run, the websocket connection between the Web Player and the Spotfire Server is not re-established when the Spotfire Server instance is running again.
TS-77617	14.5.0	Spotfire is sometimes not responsive when you try to highlight or mark vertical (north-south) well sticks in a map chart.
TS-77628	14.5.0	<i>Export data to file</i> does not work for the <i>Details-on-Demand</i> panel if Spotfire runs in another language than English.
TS-77629	14.5.0	If an item filter is used without <i>Include (None) as option</i> selected, there are missing items in the filter result.
TS-77670	14.5.0	When the <i>RefreshOnDemandData</i> callback is invoked from an IronPython script, and the callback parameter is a function that generates an exception, Spotfire closes unexpectedly.
TS-77784	14.5.0	Using very long and complex expressions can sometimes make Spotfire close unexpectedly.

Key	Version	Summary
TS-77835	14.5.0	It is not possible to perform a K-means clustering or a Line similarity calculation based on a line chart that uses a hierarchy on an axis.
TS-77861	14.5.0	In the Connect to Microsoft SQL Server or Connect to Apache Spark SQL dialogs, if you repeatedly click <i>Add property</i> , the control might stop working.
TS-77871	14.5.0	Sometimes, when you specify a custom expression on an axis in a box plot, the box plot never finishes rendering, and Spotfire shows an exception.
TS-77890	14.5.0	The hex color code cannot be edited when the color palette is opened from the styling options popover in the table visualization.
TS-78051	14.5.0	Some analyses with filter propagation and K-means clustering, and/or line similarity calculations, cannot be opened.
TS-78120	14.5.0	A minimized annotation is sometimes placed outside the visualization it was added to, if the annotation width exceeds the visualization width.
TS-78156	14.5.0	When you try to rename a column with a column name of maximum length, 1000 characters, to a new name with the same 1000 characters plus at least one more character, the name is appended with ' (2)' instead of being cut at max length.
TS-78223	14.5.0	Some states in India are not shown correctly according to their current administrative status.
TS-78255	14.5.0	In the <i>Register Data Function</i> dialog, the <i>Save as</i> , <i>Export</i> , and <i>Run</i> buttons are sometimes not enabled after changing the <i>Type</i> .
TS-78309	14.5.0	Sometimes an analysis takes a long time to open in the Spotfire web client, even though it has been configured to pre-load data with scheduled updates.
TS-78320	14.5.0	GeoJSON properties specifying datetime according to ISO 8601 are incorrectly parsed as string type in Spotfire.
TS-78350	14.5.0	When the Web Player service runs on Linux, and you run scheduled updates with an analysis containing information links, Spotfire sometimes closes unexpectedly.
TS-78357	14.5.0	Reference counters in the document cache are not thread safe. In rare cases of errors or canceled actions, documents can stay longer than needed in the cache, alternatively be removed before they should, which might lead to longer waiting time for end users.
TS-78460	14.5.0	The current selection in the list of data functions is lost when editing a data function script from the <i>Data Function Properties</i> dialog.
TS-78482	14.5.0	Sometimes an entry is removed from the document cache even if it is in the process of being loaded by scheduled updates.
TS-78533	14.5.0	You cannot open an information link that has been marked as a favorite if it contains a pivot condition or a stored procedure.
TS-78564	14.5.0	Data uploads to the Spotfire Server cannot be partially retried. Note: This fix also requires that you update the Spotfire Server to version 14.5.0 or later.

Key	Version	Summary
TS-78582	14.5.0	When you use a Spotfire web client over HTTP, and you create a SQL Server or Apache Spark SQL data connection and an error occurs, the <i>Copy error message</i> button is available, even if copy to clipboard actions are not possible when you use HTTP.
TS-78632	14.5.0	No error is shown if you try to open the <i>Custom expression</i> dialog from the visualization axes in the installed client without having the proper license.
TS-78691	14.5.0	Sometimes when you attempt to open a .dxp file, the installed Spotfire client shows the error message "ERR_UNSAFE_PORT" instead of rendering the pages in the analysis.
TS-78697	14.5.0	When you access an information link using either on-demand or prompting and you provide more than 1000 input values, some special characters (* ? ; \) are not handled correctly. • ? and * characters in input from on-demand or single/multiple selection prompts are incorrectly interpreted as wildcards. • ; and \ characters in input from on-demand or any prompt type result in errors or missing data.
TS-78746	14.5.0	Retry of some server calls does not work correctly and can sometimes lead to display of incorrect error messages. Also, for a few of the calls, this can cause the application to hang in an indefinite retry loop.
TS-78762	14.5.0	If you attempt to open the <i>Recommended</i> section of the <i>Files and data</i> flyout when your network connection is lost, an internal error message is sometimes shown instead of a user-friendly message with information about being offline.
TS-78793	14.5.0	In the parallel coordinate plot, the <i>Columns</i> page in the <i>Visualization properties</i> dialog is sometimes not updated correctly when you switch on or off aggregation.
TS-78798	14.5.0	When you are running the installed Spotfire client without a server, manually added Modules are not automatically loaded unless the file <code>ProbedModulesCache.xml</code> is removed before launching the application.
TS-78832	14.5.0	In the Spotfire web client, the <i>Color</i> section is missing from the <i>Properties</i> pop-over in cross tables.
TS-78881	14.5.0	The scheduled update rule activity status is not set to 'Cancelled' if a second rule is triggered while another one is still in progress, and the description is not set to 'An update is already in progress.' as expected.
TS-78899	14.5.0	The installed Spotfire application closes unexpectedly when reference lines are added to an axis using the DatePart expression.
TS-78902	14.5.0	Closing a UI element such as a menu, popover, or flyout by clicking outside it does not work if the area where you click contains an embedded iframe. This can for example occur if the landing page is cobranded.
TS-78917	14.5.0	If you use the <i>Set from property</i> feature on the color axis of a line chart, the initial expression is sometimes unusable.
TS-79017	14.5.0	Setting <code>Desktop_Preference_PerformHtmlSanitation</code> to <code>false</code> in the <code>Spotfire.Dxp.Main.dll.config</code> file, to switch off HTML sanitation when running Spotfire without a server, does not have any effect.

Key	Version	Summary
TS-79075	14.5.0	Fonts specified with Korean names are not shown correctly in visualizations.
TS-79110	14.5.0	When you select an existing data connection in your analysis to replace a data table or data source, or to add rows or columns to a data table, it is possible to edit the data connection in the <i>Views in Connection</i> dialog. This causes errors when you save and reopen the analysis.
TS-79171	14.5.0	Sometimes, clicking in a custom element in a custom visualization does not have any effect.
TS-79211	14.5.0	If you do not have the license feature <i>Open file</i> and you attempt to open the Spotfire web application without an open analysis file, or if you close an open analysis, an error will be shown.
TS-79220	14.5.0	When you select data for a data connection in the <i>Select data from</i> dialog, you can click the <i>Continue</i> button while the selected tables are still loading, which leads to all data tables not being included in the data connection.
TS-79251	14.5.0	Data tables specified to be refreshed with prompts do not show the prompts when triggered using an IronPython script.
TS-79257	14.5.0	It is not possible to use a mounted shared Windows folder for linked data in analyses viewed in web clients when the Web Player instance is running on Linux. To solve this issue, an administrator can now add one or more aliases to provide both a Windows and a Linux path to shared files in the <code>AllowedFilePath</code> setting of the <code>spotfire.dxp.worker.host.dll.config</code> file. Separate the different paths with a vertical bar (pipe character), " ", ASCII code 124: <pre><string>\\server\winshare\datafiles /mnt/winshare/datafiles</string></pre>
TS-79271	14.5.0	When you are adding a <i>Pivot</i> transformation to an analysis using the installed Spotfire application, and you manually adjust the size of the <i>Pivot Data</i> dialog after having added a lot of columns in the <i>Row identifiers</i> field, the '+' symbol (Add columns) disappears from the field.
TS-79272	14.5.0	The globe icon on the status bar can sometimes show progress for tasks that have already been completed.
TS-79285	14.5.0	You cannot open an analysis with parallel data loading under certain conditions. This can happen if the analysis has a data table with an on-demand data source, followed by a pivot transformation, and the analysis has been saved with the <code>AllowSavingOnDemandData</code> preference set to false.
TS-79289	14.5.0	When you export a cross table visualization to Excel, horizontal scrolling settings are ignored, causing some of the first columns to be hidden if the vertical axis expression results in more than 10 columns.
TS-79340	14.5.0	When you search in the <i>Files and data</i> flyout, the search results cannot be sorted.
TS-79414	14.5.0	Closing an analysis causes a memory leak until the user session ends.

Key	Version	Summary
TS-79424	14.5.0	When you edit a Microsoft SQL Server data connection in the Spotfire web client, the data type and prompt type settings of previously defined prompts are not updated if the database schema has changed.
TS-79433	14.5.0	When you export data or images from a visualization mod, the resulting export is sometimes empty.
TS-79441	14.5.0	When you use the <code>BinByEvenIntervals</code> function on currency data, values are sometimes placed in the wrong bins.
TS-79446	14.5.0	When you export an analysis to PDF as a prepared report, visualization mod icons are not shown in the <i>Contents</i> list.
TS-79465	14.5.0	If you search in the <i>Actions</i> flyout, individual actions in an action mod are not shown in the results.
TS-79506	14.5.0	Sometimes Spotfire closes unexpectedly when virtual columns are used in the analysis.
TS-79552	14.5.0	When you edit a SQL Server data connection in the Spotfire web client, the database schema is automatically reloaded, which can cause performance issues.
TS-79559	14.5.0	Analysis files that include an IronPython script with a Page or a Visualization parameter can sometimes not be opened in version 14.4 or later.
TS-79564	14.5.0	It is not possible to access data from Microsoft Excel files that contain empty <code>VmlDrawingParts</code> .
TS-79566	14.5.0	Sometimes, a <code>NullReferenceException</code> error is shown when you attempt to open the Spotfire web client.
TS-79597	14.5.0	When some specific fonts are used, for example Aptos, labels are not shown in map chart feature layers.
TS-79627	14.5.0	Failing IronPython scripts that are executed in transaction do not roll back the operation, which might cause the analysis to end up in an inconsistent state.
TS-79660	14.5.0	The data table memory usage estimate in the data canvas does not take data sharing into account, so it is often an over-estimation of the actual usage.
TS-79662	14.5.0	Some fonts, for example Lucida Calligraphy, are not consistently applied to all elements in the analysis.
TS-79721	14.5.0	In the Spotfire User Guide, the example credentials profile for the Microsoft SharePoint Online connector does not match the format of the credentials profile that you can generate in Spotfire.
TS-79752	14.5.0	When the Web Player service is run in a Linux container, the memory usage that determines whether data must be paged to disk is counted incorrectly.
TS-79779	14.5.0	If you run multiple instances of Spotfire via Windows Server Remote Desktop Services and attempt to close one instance, Spotfire sometimes shuts down with an error instead of closing as expected.

Key	Version	Summary
TS-79795	14.5.0	Under rare circumstances, the installed Spotfire client closes unexpectedly during startup when attempting to load Skia fonts.
TS-79803	14.5.0	In the Spotfire web client, when you open an information link with a prompt for a datetime column with input type range, the date input field shows the date without a time after you select a date.
TS-79827	14.5.0	Sometimes, it is not possible to access data from a custom file data source using the web client. This is applicable to Web Player services running on either Linux or Windows.
TS-79857	14.5.0	If you attempt to export a graphical table containing empty currency values to Microsoft Excel, Spotfire closes unexpectedly.
TS-79897	14.5.0	You cannot add a color rule to a color axis with a categorical custom expression.
TS-79936	14.5.0	The <i>Export as editable image</i> option does not work in the deprecated <i>Export to Microsoft PowerPoint – 7.11 version</i> .
TS-80033	14.5.0	Tools that have been implemented using the CustomExportTool are not listed as an option when selecting <i>Customize toolbar</i> .
TS-80057	14.5.0	Analyses containing calculations from missing custom extensions try to use parallel data loading instead of the expected serial data loading, which can prevent the analyses from opening in Spotfire.
TS-80090	14.5.0	Context menus for filters in a text area do not work when using a different filtering scheme than the active one.
TS-80161	14.5.0	Reading data in Python while running a Python data function is slow.
TS-80221	14.5.0	Visualizations sometimes show stale content when you switch between pages in an analysis.
TS-80237	14.5.0	It is possible to start an upgrade of the Spotfire application while another instance of the application is running, which makes Spotfire close unexpectedly.
TS-80254	14.5.0	It is possible to register a custom data source that does not have a unique <code>TypeIdentifier</code> name. With this fix, if you have custom data sources that have the same <code>TypeIdentifier</code> name, those sources are skipped.
TS-80285	14.5.0	Under rare circumstances, when you attempt to close Spotfire, the application shuts down with an error instead of closing the regular way.
TS-80316	14.5.0	If you have an analysis with one external data table and one imported data table, and the external data table is the active one, the <i>Data relationships</i> tool does not work as expected. There are no columns shown in the fields and the data table drop-down list is not available so you can switch data table to the imported one.
TS-80441	14.5.0	When you use the web client to cast an expression to a string (either using <code>Cast</code> directly or with the <code>String</code> function), the system's default formatting is used instead of your own default formatting.

Key	Version	Summary
TS-80447	14.5.0	When replacing a data table, and all columns do not match automatically, the Match Columns dialog is shown. In that dialog, it is not possible to adjust the 'Current Data' and 'New Data' fields, which can make it hard to see the full column names and, hence, hard to know if you match the correct columns.
TS-80458	14.5.0	If you embed a PDF in an iframe in a text area, a square with no content is shown.
TS-80501	14.5.0	Spotfire becomes unresponsive if you add a new data table and the analysis contains a data table with columns whose names contain different characters but are considered identical in the current culture.
TS-80579	14.5.0	When you import information links into Spotfire it takes longer time in 14.4 compared to 14.0. To fix this performance issue, latency has been reduced when calling the server.
TS-80807	14.5.0	When running the Spotfire application without a server, and multiple Spotfire processes are trying to access the serverless configuration file at the same time, Spotfire closes unexpectedly.
TSAS-1169	14.5.0	The loop properties for the Automation Services task ForEach should not be allowed to be used outside the ForEach loop.
TSAS-1172	14.5.0	Executing an Automation Services job previously saved in the library, while having unsaved changes in the Automation Services Job Builder, runs the job from the library instead of the modified job from the editor.
TSAS-1176	14.5.0	If allowedFilePaths/allowAll is configured as false in the configuration of Automation Services, and the allowed file path includes the trailing backslash, that folder cannot be exported to using Automation Services.
TSAS-1178	14.5.0	The performance counter # active jobs can sometimes show invalid values.
TSAS-1179	14.5.0	Automation Services has a memory leak in the object Framework.ApplicationModel.AnalysisView.
TSDC-5139	14.5.0	When you create a connection to Google Analytics, pressing the Escape key does not close the connection dialog
TSDC-7323	14.5.0	When you access large amounts of data with the connector for MySQL, and you use a version of the ODBC driver later than 8.0, Spotfire sometimes stops unexpectedly.
TSDC-7405	14.5.0	In the Spotfire web client, when you open a data connection with username-only authentication and press Enter to log in, the website refreshes instead of submitting the credentials.
TSDC-7448	14.5.0	When you embed a Spotfire analysis in an iframe, authentication does not work for Microsoft SharePoint data connections.
TSDC-7450	14.5.0	When you embed a Spotfire analysis in an iframe, authentication does not work for Google Analytics (GA4) data connections.
TSDC-7451	14.5.0	When you embed a Spotfire analysis in an iframe, authentication does not work for Salesforce data connections.

Key	Version	Summary
TSDC-7452	14.5.0	When you embed a Spotfire analysis in an iframe, authentication does not work for Google BigQuery data connections.
TSDC-7506	14.5.0	When you open an analysis containing an OData data connection with <i>Windows Authentication</i> , you do not get a prompt to enter credentials and therefore cannot load the data.
TSDC-7513	14.5.0	If you add line breaks in the description of a prompt in a data connection, the description does not display correctly in the prompt dialog.
TSDC-7547	14.5.0	When you open an analysis, which was saved in an earlier version of Spotfire, containing a Apache Spark SQL data connection, the <i>Use SSL</i> option is sometimes not correctly handled in the new version of Spotfire.
TSDC-7655	14.5.0	When you access data with the connector for Snowflake, parameterized custom queries do not work with the Snowflake ODBC driver version 3.4.1 or later.
TSDC-7669	14.5.0	For Snowflake data connections, the setting <i>Enable cascading filters for in-database data tables from this connection</i> is not available.
TSDK-714	14.5.0	The Spotfire Package Builder cannot be opened and can sometimes cause the application to close unexpectedly, when running a German version of the installed Spotfire client.

Known Issues

The following are known issues in version 14.5 of the Spotfire® application.

Key	Version	Summary
TS-62137	14.5.0	Package installation precedence rules Python packages that are installed by the Administrator (through an SPK) take precedence over packages installed using the <i>Python tools</i> from the <i>Tools</i> menu in the installed Spotfire client. If someone attempts to update a package previously installed by an SPK, then the package update is installed, but the update is ignored.
TS-66946	14.5.0	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	14.5.0	"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 <i>Installation and Administration</i> 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: • <code>spring.servlet.multipart.max-file-size</code>: The total file size for upload cannot exceed the value for this setting. • <code>spring.servlet.multipart.max-request-size</code>: 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	14.5.0	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.

Key	Version	Summary
TS-69770	14.5.0	Empty String columns in exported SBDF causes an error If you export an SBDF from Python (for example, as outputs for a data function), and your output contains an empty column, then you can encounter the following error: <pre>spotfire.sddf.SBDFError: cannot determine type for column 'EmptyString' ; all values are missing</pre> This error occurs because the Spotfire data function environment cannot determine the proper Spotfire type to export the data as if all values in the column are missing (in other words, Python's None, NumPy's nan, or Panda's NA or NaT values). Workaround: To resolve this issue, edit your data function to use the helper function <code>set_spotfire_types</code>. Example <pre>import pandas as pd import spotfire df = pd.DataFrame(inp) spotfire.set_spotfire_types(df, {'EmptyString': 'String'})</pre>
TSDC-7552	14.5.0	Intermittent issues opening Oracle data connections Data connections to Oracle databases sometimes fail to open, reporting the following error message: "ORA-03135: connection lost contact". This likely happens because of a stale connection. <i>Possible mitigation</i> If you encounter this issue frequently, you can try to modify the settings in your data connection for your specific situation by configuring custom data source properties. For example: • The property <code>ValidateConnection</code> ensures that a connection is valid before opening it, at the cost of decreased performance. • The properties for pooling, <code>MinPoolSize</code>, <code>MaxPoolSize</code>, and <code>IncrPoolSize</code> you can control how the Oracle connection pool is managed.

Installation

The following are instructions on how to install version 14.5 of the Spotfire® application for Windows.

Selecting the correct installation package

The Spotfire application for Windows is delivered as a number of installation packages that serve different use cases:

- SPOT_sfiredapp_<version>_enterprise_single_user_win.zip
- SPOT_sfiredapp_<version>_enterprise_shared_computer_win.zip
- SPOT_sfiredapp_<version>_analytics_win.zip
- SPOT_sfiredapp_<version>_datascience_win.zip
- SPOT_sfiredapp_<version>_portable_win.zip

Enterprise (Environments with a Spotfire Server)

In an environment with a Spotfire Server, use one of the installer packages labeled enterprise. The enterprise installers require that you connect to your server after the installation, to get updates and configurations based on the logged in user.

- The `single_user` installer installs the application for the logged in Windows user only, and other users on the same computer will not be able to use it.
- The `shared_computer` installer installs the application for all users on the computer. This installer requires administrative privileges on the machine.

Single-seat Analytics and Data Science users

In an environment without your own Spotfire Server, use the packages labeled analytics or datascience.

Select the installer corresponding to your product license to get the correct functionality.



The analytics and datascience installers cannot be used to install Spotfire for use by multiple users on a shared computer.

Portable

The package labeled portable is a lightweight self-contained installation that facilitates testing new versions of Spotfire on a computer without having to uninstall previous installations. If you use the portable package, you must connect to a Spotfire Server to download the full client software package.

Installation of Release 14.5

1. First install/upgrade the Spotfire Server to version 14.5.
2. Deploy the Spotfire 14.5 distribution on the Spotfire Server 14.5.
3. Finally, install the Spotfire application 14.5 on all client computers.



There are separate instructions available for installing the Spotfire application without a server on the [documentation site](#).

Installation Notes

- If the .NET 4.8 framework is not installed, it will be downloaded and installed when launching the "shared_computer" Spotfire application 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 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 14.5 of the installed Spotfire® application.

Upgrading from a Previous Version without Installing



Upgrading from versions earlier than 14.0.7 and 14.5.0

When you upgrade to this version of Spotfire from a version before 14.0.7 or 14.5.0, you must upgrade the Spotfire Server to version 14.0.8 or 14.5.0 or later *before* you deploy and upgrade the clients. Before you upgrade, see [Upgrading to 14.0.8 or 14.5.0: New license management](#).

1. First install/upgrade the Spotfire Server to version 14.5.
2. Deploy the Spotfire 14.5 distribution on the Spotfire Server 14.5.
3. Start the old version of the installed Spotfire application, log on to the Spotfire Server 14.5 and accept the update.

Compatibility Versions

You can use Spotfire 14.5 to open .dxd analysis files that were created and saved in any older version of Spotfire that is still in support.

The compatibility versions of Spotfire 14.5 are updated to versions 14.4 and 14.0 LTS. This means that .dxd analysis files that you create and save in Spotfire 14.5 can be opened in versions 14.4 and 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
14.5	14.4, 14.0 LTS
14.4	14.3, 14.0 LTS
14.3	14.2, 14.0 LTS
14.2	14.1, 14.0 LTS
14.1	14.0 LTS, 12.5
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 14.5, the file is saved with compatibility versions for 14.4 and 14.0 LTS. You can open the .dxp file in any older Spotfire version that either *is* one of those versions, or has 14.4 or 14.0 LTS as compatibility versions.

That means you can open the .dxp analysis file that you saved in Spotfire 14.5 in the following older versions: 14.4, 14.3, 14.2, 14.1, and 14.0 LTS.

Newer and older versions of the installed Spotfire application 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](#).

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>.

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