

# **Spotfire® Application Release Notes**

*Software Release 14.6.0*

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# Spotfire Application Release Notes

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This document covers the release notes for version 14.6 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 14.6 of the Spotfire® application.

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

Key	Version	Summary
TSDC-7019	14.6.0	<p><b>Support for ODBC Driver for Apache Arrow Flight SQL in Dremio connector</b></p> <p>The connector for Dremio now supports using the ODBC Driver for Apache Arrow Flight SQL, to access data from Dremio versions 22.0 and later.</p>
SPOT-2283	14.6.0	<p><b>Vertica data connector improvements</b></p> <p>The data connector for Vertica has received an overhaul. You can now make use of a range of new features when you connect to your Vertica databases:</p> <p><i>Access data from Vertica in the web client</i></p> <p>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 Vertica databases when you author analyses in the web client.</p> <p><b>Note:</b> Some connection authoring capabilities, such as writing custom queries, are only available when you use the installed client. For details, see the documentation.</p> <p><i>Custom properties in connection data sources</i></p> <p>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.</p> <p><i>Identity provider authentication</i></p> <p>You can now use an identity provider for authentication in data connections to Vertica. With the Identity provider (OAuth2) authentication method, you can enable a convenient and secure login experience for accessing only the data you have permission to access. To learn more, see <a href="#">Single sign-on with an identity provider (OAuth2) for connectors</a>.</p>
SPOT-3864	14.6.0	<p><b>Horizontal box plot</b></p> <p>You can now choose to show box plots horizontally, for a more flexible way to visualize your data. This makes it easier to read long category labels and use screen space more efficiently. In many analytical workflows—such as when comparing yields across production lines, defect rates by machine, or, when analyzing process variations across products—labels can become difficult to read with a standard layout.</p> <p>You can switch between a vertical and horizontal orientation from the visualization properties, or using the context menu. When long category names are no longer truncated and all information remains visible, even in dense, data-rich environments, the visualizations provide more key context.</p> <p>This feature is available with the Spotfire Analytics and Spotfire Data Science licenses.</p>

Key	Version	Summary
SPOT-3916	14.6.0	<p><b>Add reference elements to your visualizations</b></p> <p>Reference elements are versatile, data-driven tools that enrich visualizations with added context. They include lines, bands, boxes, and markers that can place targets, control limits, and acceptance ranges directly within your visualizations. These elements are calculated from expressions, which can be based on data from the same table as the visualization or from a separate data table. Like the visualization, you can choose to split the reference elements by category, color, or apply trellising.</p> <p>You can use reference elements for a variety of needs, including:</p> <ul style="list-style-type: none"> <li>• Setting limits &amp; targets (lines): Add horizontal or vertical lines to your visualizations to show specification limits, control limits, or goals for each tool, production line, or segment.</li> <li>• Showing acceptable ranges (bands): Use colored bands to visualize the area between lower and upper bounds, which is useful for seeing "pass/fail" windows.</li> <li>• Highlighting intervals of interest (boxes): Use boxes to highlight specific time intervals, such as production shifts or maintenance periods, or to emphasize important value windows.</li> <li>• Showing benchmarks &amp; trends (markers): Place markers on your visualizations to represent medians, averages, or other key measures. You can also connect them with lines to show trends.</li> </ul> <p>This makes it easier to create metadata-driven dashboards. Now, you can use a "wide" table of your core measurements, like sensor readings, and connect it to "tall" tables that contain auxiliary information like rules or targets. This also scales to your specific context, automatically applying per plant, tool, line, lot, or customer segment. With clear labels and styling, the dashboards are presentation-ready for both data exploration and polished analytics applications.</p> <p>This feature is available with the Spotfire Data Science license.</p> <p>Read more in the <a href="#">Spotfire User Guide</a>.</p>
SPOT-3917	14.6.0	<p><b>Violin plot in box plot visualization</b></p> <p>If you have the Spotfire Data Science license, you can now turn a box plot into a violin plot by adding a kernel density estimate (KDE) around each box, and get a more nuanced view of your data.</p> <p>This functionality lets you show the probability density distribution (the shape) of data and helps you see whether data is skewed, multimodal, or exhibit unexpected patterns; critical insights that are often hidden when investigating quartiles or medians of a simple box plot only.</p> <p>Violin plots are particularly valuable for engineers and scientists working with complex or noisy data sets, such as those in manufacturing, life sciences, or with natural resources. For example, violins can enable process engineers to better understand the variation in yield or defect rates, help quality analysts detect distribution shifts in batch performance, and allow reservoir engineers to explore how performance data is distributed beyond basic summary statistics. These insights support faster troubleshooting, better decision-making, and more effective communication of findings.</p> <p>You add the <i>Violin</i> to an existing box plot (vertical or horizontal) from the visualization properties panel, where you can also change how the bandwidth is calculated, as well as update things like the color and transparency.</p>

Key	Version	Summary
SPOT-3924	14.6.0	<p><b>Change the orientation of scale labels in the box plot</b></p> <p>It is now possible to configure scale labels on the Category axis of the box plot. You can choose to show them horizontally or vertically, as well as to show or hide them.</p> <p>This makes it easier to read dense box plots when, for example, comparing yield across production lines, defect rates by tool, or process variability across products. The vertical orientation of the labels prevents long or numerous category labels from overlapping and optimizes screen estate.</p> <p>You can change the label configuration from the visualization properties or the contextual menu on the axis.</p>
SPOT-3927	14.6.0	<p><b>Statistics table for box plot with expression-based measures</b></p> <p>An enhanced version of the statistics table for the box plot is now available, giving you more flexibility when calculating statistical measures. It supports expression-based statistical measures, and lets you define and show custom calculations without the need to modify the underlying data table.</p> <p>The new statistics table opens up powerful new possibilities for engineers and scientists who need to track domain-specific metrics—such as yield rates, defect percentages, or process-specific thresholds—within the context of a familiar box plot.</p> <p>In addition to supporting custom expressions, the statistics table can now be shown or hidden on demand, giving you full control over the visual layout of your analysis.</p> <p>The new statistics table can be configured in the <i>Statistics table</i> card in the visualization properties panel.</p> <p><b>Important:</b> If you have configured a box plot using a previous version of the statistical measures settings, you must convert the measures to expressions to use them in the new <i>Statistics table</i> card. To learn more, see <a href="#">Adding measures to the statistics table</a>.</p>
SPOT-3956	14.6.0	<p><b>Continuous updates on the landing page</b></p> <p>The landing page, shown when you start Spotfire, now shows Spotfire related news, events, tips, and tricks. The content on the landing page will change over time to stay relevant. The continuously updated landing page will make it easier for you to keep up to date with new Spotfire capabilities, training material, webinars, and other related content.</p> <p><b>Note:</b> If you use cobranding on the landing page, no dynamic content will be shown.</p>
SPOT-3958	14.6.0	<p><b>Filtering in the Add-ons and Demos browsers</b></p> <p>When you browse for assets in the <i>Add-ons</i> or <i>Demos</i> browsers, you can now add filters to limit the number of assets shown in the browser. This makes it easier to find all assets related to, for example, energy, data preparation, yield optimization, etc.</p>

Key	Version	Summary
SPOT-3962	14.6.0	<p><b>Match data tables on (Column Names)</b></p> <p>A new option is available for column matching, making it easier to connect your data from different data tables in Spotfire. You can now effortlessly link "tall" tables—which store parameters, business rules, targets, or thresholds—with "wide" tables with many columns containing your measurements.</p> <p>Instead of manually reshaping your data or hard-coding column references, you can now match a column containing column names (for example, "Temperature" or "Pressure") with the corresponding columns in another table. This is especially useful in industries where thresholds and targets are managed independently of raw data.</p> <p>With this new option, you can:</p> <ul style="list-style-type: none"> <li>• Integrate data seamlessly: Connect metadata tables to measurement tables without manual data manipulation.</li> <li>• Drive analyses with metadata: Apply control limits, KPI targets, and other rules defined in separate tables directly to your sensor or production data.</li> <li>• Create dynamic visualizations: Use expressions like [Axis.Y.Column] to reference the column used in a visualization. This enables flexible comparisons and calculations, keeping your visualizations automatically aligned as business rules evolve.</li> </ul>
SPOT-4047	14.6.0	<p><b>Spotfire Data Science license now available with legacy licensing</b></p> <p>You can now assign the new Spotfire Data Science product license to users, even when your Spotfire environment is configured for the legacy product licenses. This means that, in addition to Spotfire Analyst, Spotfire Business Author, and Spotfire Consumer, you can also assign Spotfire Data Science licenses and make use of powerful data science features and functionality.</p> <p><b>Note:</b> To use the Spotfire Data Science license, you must have an active license agreement that includes the Spotfire Data Science license. Reach out to your Spotfire sales person to learn more.</p>
TS-80301	14.6.0	<p><b>Easier to select a Coordinate Reference System in built-in data functions</b></p> <p>The geographic built-in data functions now use the same Coordinate Reference System (CRS) selector as the map chart. Click <i>Select CRS</i> next to the <i>Value</i> input field to open a dialog where you can get more information in tooltips and choose the CRS to use directly.</p>
TS-81284	14.6.0	<p><b>Easier to use many built-in data functions</b></p> <p>Several of the input parameters for the built-in data functions are now easier to specify, using options in drop-down lists instead of simple text fields.</p>
TS-81652	14.6.0	<p><b>Geographical and complex data type support for Vertica connections</b></p> <p>In Vertica data connections, you can now access the following data types:</p> <ul style="list-style-type: none"> <li>• Geography</li> <li>• Geometry</li> <li>• Array</li> <li>• Row</li> <li>• Set</li> </ul>

Key	Version	Summary
TS-82027	14.6.0	<p><b>Visualization mods enhancements</b></p> <p>The following improvements are available for visualization mods:</p> <p><i>Improved error logging</i></p> <p>Visualization mod errors that are thrown in readable callbacks are now logged as errors, to make debugging easier.</p> <p><i>Optional axes</i></p> <p>Visualization mod developers can now declare an axis as "optional", which means that the axis will only be shown in the visualization properties panel when the axis is configured.</p>

# Changes in Functionality

The following are changes in functionality in version 14.6 of the Spotfire® application.

Key	Version	Summary
SPOT-3957	14.6.0	<p><b>Demos in a separate section</b></p> <p><i>Demos</i> are now accessed from their own section of the <i>Files and data</i> flyout instead of from the <i>Add-ons</i> browser.</p>
TS-81053	14.6.0	<p><b>CRS transformation for geometries version 2.0</b></p> <p>There is now a new version of the built-in data function <i>CRS transformation for geometries</i>, version 2.0. Note that any analyses using the previous version will still use that version until they are manually updated by an author.</p> <p>A new optional parameter has been introduced, <i>Columns to pass through</i>, which allows you to add columns to transfer to the output data table, without any modifications. By including an ID column or similar, it is easier to use the result from the data function in a map chart.</p> <p>This change also introduces a new public API version, <code>CrsTransformationForGeometries2</code>. The old API version has been deprecated.</p>
TS-81185	14.6.0	<p><b>Separate driver no longer required for opening .xlsb files</b></p> <p>You can now open Excel data files of the type <code>.xlsb</code> without needing to install the Microsoft ACE OLEDB driver (included in Microsoft Office and Microsoft Access Database Engine).</p>
TS-81638	14.6.0	<p><b>Geographic nearest neighbors version 2.0</b></p> <p>There is now a new version of the built-in data function <i>Geographic nearest neighbors</i>, version 2.0. Note that any analyses using the previous version will still use that version until they are manually updated by an author.</p> <p>The input parameters to provide have changed from:</p> <ul style="list-style-type: none"> <li>• X or latitude</li> <li>• Y or longitude</li> </ul> <p>to:</p> <ul style="list-style-type: none"> <li>• X or longitude</li> <li>• Y or latitude</li> </ul> <p>This change was made to use the same combination of expected inputs in all different places of Spotfire.</p> <p>This also introduces a new public API version, <code>GeographicNearestNeighbors2</code>. The old API version has been deprecated.</p>

Key	Version	Summary
TS-81639	14.6.0	<p><b>Geographic distance matrix version 2.0</b></p> <p>There is now a new version of the built-in data function <i>Geographic distance matrix</i>, version 2.0. Note that any analyses using the previous version will still use that version until they are manually updated by an author.</p> <p>The input parameters to provide have changed from:</p> <ul style="list-style-type: none"> <li>• X or latitude</li> <li>• Y or longitude</li> </ul> <p>to:</p> <ul style="list-style-type: none"> <li>• X or longitude</li> <li>• Y or latitude</li> </ul> <p>This change was made to use the same combination of expected inputs in all different places of Spotfire.</p> <p>This also introduces a new public API version, <code>GeographicDistanceMatrix2</code>. The old API version has been deprecated.</p>
TS-81641	14.6.0	<p><b>CRS transformation for coordinates version 2.0</b></p> <p>There is now a new version of the built-in data function <i>CRS transformation for coordinates</i>, version 2.0. Note that any analyses using the previous version will still use that version until they are manually updated by an author.</p> <p>The input parameters to provide have changed from:</p> <ul style="list-style-type: none"> <li>• X or latitude</li> <li>• Y or longitude</li> </ul> <p>to:</p> <ul style="list-style-type: none"> <li>• X or longitude</li> <li>• Y or latitude</li> </ul> <p>This change was made to use the same combination of expected inputs in all different places of Spotfire.</p> <p>The output columns have changed from:</p> <ul style="list-style-type: none"> <li>• First coordinate</li> <li>• Second coordinate</li> </ul> <p>to:</p> <ul style="list-style-type: none"> <li>• X or longitude</li> <li>• Y or latitude</li> </ul> <p>Similarly, this change was done to make it clearer which column you should use where, when applying the results from this calculation in a map chart.</p> <p>This change also introduces a new public API version, <code>CrsTransformationForCoordinates2</code>. The old API version has been deprecated.</p>
TS-82222	14.6.0	<p><b>Updated runtime requirement for TERR</b></p> <p>TERR 6.1.6 is built using <i>Intel oneAPI 2025.1</i>. Recent changes to the API has led to TERR now requiring the <i>Microsoft Visual C++ Redistributable</i> to be installed on the computer that uses the TERR Console, TERR Tools, or local execution of TERR data functions, to be able to run.</p>

Key	Version	Summary
TSDC-7844	14.6.0	<b>Expanded driver support for data connections to SingleStore</b> The data connector for MySQL now supports using the official SingleStore ODBC driver and version 8.0.26 MySQL Connector/ODBC driver for connections to SingleStore databases. Also, the connector now prioritizes the Unicode version of drivers over the ANSI version.

# 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	14.6.0	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	14.6.0	The command line switches <code>/username</code> and <code>/password</code> have been deprecated, because BASIC authentication has been deprecated on the server.  Deprecated since Spotfire 14.5.0.
TS-79184	14.6.0	The external actions functionality has been deprecated and will be removed in a future release.  Deprecated since Spotfire 14.5.0.
TS-80109	14.6.0	<ul style="list-style-type: none"> <li>The APIs <code>ColumnsOutputBuilder.AddNewColumnsWhenUpdating</code> and <code>RowsOutputBuilder.ReplaceRowsWhenUpdating</code> are deprecated and will be removed in a future release.</li> <li>The <i>Replace columns on update</i> and <i>Replace rows on update</i> check boxes, that depended on these APIs and were previously available in the <i>Edit Parameters</i> dialog, have now been removed in the case of creating new data functions. For old configurations that were using the deprecated behavior, the check box will be available until you switch to the new default behavior.</li> </ul> Deprecated since Spotfire 14.6.0.
TSAS-1161	14.6.0	The authentication methods, <i>Username and password</i> and <i>Windows authentication</i> , have been deprecated for the Automation Services Client Job Sender. Instead, <a href="#">OAuth2 API client</a> authentication should be used.  Deprecated since Spotfire 14.4.0.
TSDC-7744	14.6.0	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
TS-82130	14.6.0	Export to the legacy Excel file format (.xls) has been removed.
TSDC-7749	14.6.0	The data connector for Attivio has been removed.

Key	Version	Summary
TSDC-7750	14.6.0	The data connector for Apache HAWQ has been removed.
TSDC-7815	14.6.0	The data connector for Teradata Aster has been removed.
TSDC-7824	14.6.0	The data connector for TIBCO ComputeDB has been removed.

## Third Party Software Updates

The following third party software (TPS) components have been added, updated, or removed in version 14.6 of the Spotfire® application.

Key	Version	Summary
TS-81711	14.6.0	Apache Log4Net updated to 3.1.0
TS-81791	14.6.0	Bouncy Castle updated to 2.6.2
TS-81407	14.6.0	Chromium Embedded Framework updated to 139.0.23
TS-81679	14.6.0	DocumentFormat.OpenXml updated to 3.3.0
TS-81207	14.6.0	Google.Protobuf updated to 3.31.1
TS-81676	14.6.0	HtmlAgilityPack updated to 1.12.2
TS-81598	14.6.0	Magick.NET-Q16-AnyCPU updated to 14.8.1
TS-81678	14.6.0	Microsoft.Bcl.AsyncInterfaces updated to 9.0.8
TS-81187	14.6.0	Modified versions of the following software packages added: <ul style="list-style-type: none"> <li>ExcelDataReader version 3.8.0</li> <li>ExcelNumberFormat version 1.1.0</li> </ul>
TS-81210	14.6.0	System.Data.Odbc updated to 8.0.1
TS-81712	14.6.0	System.Drawing.Common updated to 8.0.19
TS-81208	14.6.0	System.Runtime.CompilerServices.Unsafe updated to 6.1.2
SPOT-3579	14.6.0	The third-party software component Syncfusion has been removed and is no longer used in the product. It was previously used for import and export of Excel files, and for export to PDF.
TS-81033	14.6.0	mono/SkiaSharp updated to 3.119.0
TS-81677	14.6.0	<ul style="list-style-type: none"> <li>Microsoft.AspNetCore.Authentication.Certificate updated to 8.0.19</li> <li>Microsoft.AspNetCore.JsonPatch updated to 8.0.19</li> <li>Microsoft.AspNetCore.Mvc.NewtonsoftJson updated to 8.0.19</li> </ul>

Key	Version	Summary
TS-81534	14.6.0	<ul style="list-style-type: none"> <li>• Python interpreter updated to 3.13.7 <ul style="list-style-type: none"> <li>– OpenSSL updated to 3.0.16</li> <li>– SQLite updated to 3.50.4</li> </ul> </li> <li>• Python packages: <ul style="list-style-type: none"> <li>– NumPy updated to 2.3.2</li> <li>– packaging updated 25.0</li> <li>– pandas updated to 2.3.2</li> <li>– pip updated to 25.2</li> <li>– setuptools updated to 80.9.0</li> <li>– spotfire (Package for Building Python Extensions to Spotfire) updated to 2.4.0</li> </ul> </li> <li>• Internal Python packages: <ul style="list-style-type: none"> <li>– certifi updated to 2025.8.3</li> <li>– geographiclib updated to 2.1</li> <li>– geopandas updated to 1.1.1</li> <li>– pyogrio updated to 0.11.1</li> <li>– pyproj updated to 3.7.2</li> <li>– scipy updated to 1.16.1</li> <li>– shapely updated to 2.1.1</li> <li>– statsmodels updated to 0.14.5</li> </ul> </li> </ul>

Key	Version	Summary
TSDC-7868	14.6.0	<ul style="list-style-type: none"> <li>• System.IO.Pipelines.dll version 9.0.8 added</li> <li>• Apache.Arrow.dll updated to 21.0.0</li> <li>• Azure.Core.dll updated to 1.47.2</li> <li>• Azure.Identity.dll updated to 1.15.0</li> <li>• Google.Api.CommonProtos.dll updated to 2.17.0</li> <li>• Google.Api.Gax.Grpc.dll updated to 4.11.0</li> <li>• Google.Api.Gax.Rest.dll updated to 4.11.0</li> <li>• Google.Api.Gax.dll updated to 4.11.0</li> <li>• Google.Apis.Auth.dll updated to 1.70.0</li> <li>• Google.Apis.Core.dll updated to 1.70.0</li> <li>• Google.Apis.dll updated to 1.70.0</li> <li>• Grpc.Auth.dll updated to 2.71.0</li> <li>• Grpc.Core.Api.dll updated to 2.71.0</li> <li>• Grpc.Net.Client.dll updated to 2.71.0</li> <li>• Grpc.Net.Common.dll updated to 2.71.0</li> <li>• Microsoft.AnalysisServices.AdomdClient.dll updated to 19.103.2.0</li> <li>• Microsoft.AnalysisServices.Runtime.Core.dll updated to 19.103.2.0</li> <li>• Microsoft.AnalysisServices.Runtime.Windows.dll updated to 19.103.2.0</li> <li>• Microsoft.AnalysisServices.SPClient.Interfaces.dll updated to 19.103.2.0</li> <li>• Microsoft.Bcl.AsyncInterfaces.dll updated to 9.0.8</li> <li>• Microsoft.Bcl.HashCode.dll updated to 3.1.11</li> <li>• Microsoft.Bcl.TimeProvider.dll updated to 9.0.8</li> <li>• Microsoft.Data.SqlClient.dll updated to 6.1.1</li> <li>• Microsoft.Extensions.DependencyInjection.Abstractions.dll updated to 9.0.8</li> <li>• Microsoft.Extensions.Logging.Abstractions.dll updated to 9.0.8</li> <li>• Microsoft.Identity.Client.Extensions.Msal.dll updated to 4.73.1</li> <li>• Microsoft.Identity.Client.NativeInterop.dll updated to 0.19.4</li> <li>• Microsoft.Identity.Client.dll updated to 4.76.0</li> <li>• Microsoft.IdentityModel.Abstractions.dll updated to 8.14.0</li> <li>• Microsoft.IdentityModel.JsonWebTokens.dll updated to 8.14.0</li> <li>• Microsoft.IdentityModel.Logging.dll updated to 8.14.0</li> <li>• Microsoft.IdentityModel.Protocols.OpenIdConnect.dll updated to 8.14.0</li> <li>• Microsoft.IdentityModel.Protocols.dll updated to 8.14.0</li> <li>• Microsoft.IdentityModel.Tokens.dll updated to 8.14.0</li> <li>• NodaTime.dll updated to 3.2.2</li> <li>• Oracle.ManagedDataAccess.dll updated to 23.9.1</li> <li>• System.ClientModel.dll updated to 1.6.0</li> <li>• System.Diagnostics.DiagnosticSource.dll updated to 9.0.8</li> <li>• System.DirectoryServices.Protocols.dll updated to 9.0.8</li> <li>• System.Formats.Asn1.dll updated to 9.0.8</li> <li>• System.IdentityModel.Tokens.Jwt.dll updated to 8.14.0</li> </ul>

Key	Version	Summary
		<ul style="list-style-type: none"><li>• System.Memory.Data.dll updated to 8.0.10</li><li>• System.Net.Http.WinHttpHandler.dll updated to 9.0.8</li><li>• System.Security.Cryptography.ProtectedData.dll updated to 9.0.8</li><li>• System.Text.Encodings.Web.dll updated to 9.0.8</li><li>• System.Text.Json.dll updated to 9.0.8</li><li>• System.Threading.Tasks.Extensions.dll updated to 4.6.3</li></ul>

## Closed Issues

The table lists closed issues in version 14.6 of the Spotfire® application.

Key	Version	Summary
TS-19853	14.6.0	The number of values allowed in a property control (a slider, drop-down list, or list box control) of a text area is limited to 1000 items, but there are cases when you want to use more values.
TS-76198	14.6.0	It is not possible to change the column categorization and formatting for multiple columns simultaneously in the expanded <i>Data in analysis</i> flyout; a functionality that used to be available in the now removed <i>Column Properties</i> dialog.
TS-80293	14.6.0	It takes a long time to open an analysis if it includes a large number of data connections stored in the library, because the data connections are synced with the library one-by-one.
TS-80656	14.6.0	Visualization mods sometimes become non-responsive after multiple marking operations in quick succession.
TS-80747	14.6.0	When you are editing the transformation for a replaced (specific) DateTime/Time value from the data canvas, the edit dialog does not take fractions of a second into consideration when formatting.
TS-80765	14.6.0	If you try to download data from the library and this fails because of network errors, the download should be retried and data should be downloaded in chunks instead.
TS-80766	14.6.0	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.
TS-80792	14.6.0	The application can leak memory when you apply bookmarks containing a marking that relies on serialized primary keys.
TS-80832	14.6.0	In the lists of supported coordinate reference systems for the map chart, EPSG:6933 is not included.
TS-80868	14.6.0	If you attempt to shut down or restart Windows, but then cancel the operation, export to PDF sometimes becomes unavailable.
TS-80907	14.6.0	When you provide invalid latitude and longitude input values together with the 'geodesic' distance metric in the built-in data function <i>Geographic distance metric</i> , a vague error message about non-convergence is presented. Instead, the values should be dropped.
TS-80954	14.6.0	When you open an analysis file that contains a reference to an Excel file with multiple sheets in a Spotfire client running on a Linux system, you get prompted to select sheet.
TS-80989	14.6.0	You cannot export an analysis to Excel when the Web Player service is configured to use Kerberos.
TS-81029	14.6.0	In the Spotfire web client, if you used an identity provider to log in to the Spotfire Server and you create a new data connection with the same identity provider for authentication, you might not be able to log in to the external data source.

Key	Version	Summary
TS-81037	14.6.0	Sometimes the application becomes unresponsive if you select multiple visualizations (Ctrl + click).
TS-81137	14.6.0	If you update the data type of a column from a data connection in the the <i>Select data</i> flyout (or the <i>Views in Connection</i> dialog), and the data type for the column is later updated in the data source, or as a result of a custom query update, the initial data type changes are not discarded as expected.
TS-81146	14.6.0	In some cases, when you drag an item and press Ctrl before dropping the item, the Ctrl key is ignored. As a result, the item is moved instead of copied when you drop the item.
TS-81165	14.6.0	Document Object Model (DOM) elements in custom visualizations receive multiple focus and blur events, even when already focused.
TS-81206	14.6.0	When you export an analysis to PDF and you select to export <i>Specific pages</i> without specifying which pages to export, hidden pages in the analysis might be included in the export.
TS-81249	14.6.0	If the Spotfire client is running on a Linux system, you sometimes cannot open .shx files and you get an 'Access Denied' error message.
TS-81257	14.6.0	It is not possible to edit a data connection if you have configured the connection data source with a custom property.
TS-81297	14.6.0	When you try to open a specific analysis containing independent markings in data tables, in combination with K-means clustering columns, you get an error.
TS-81334	14.6.0	In the <i>Administration Manager</i> dialog, on the <i>Groups</i> tab, the size and position of some user interface controls is incorrect when using a language other than English.
TS-81337	14.6.0	In the <i>Administration Manager</i> dialog, on the <i>Users</i> and <i>Import</i> tabs, some controls are incorrectly placed and do not react correctly when you resize the dialog.
TS-81340	14.6.0	When you try to open a specific analysis with a visualization containing a circular dependency through K-means clustering and marking, Spotfire either hangs or closes unexpectedly.
TS-81374	14.6.0	<p>It is not possible to configure visualizations with images from 'file://' URLs, so that they render on both Linux and Windows.</p> <p>To solve this issue, an administrator can now specify additional 'file://' locations for a user or group in the <i>Whitelist for Allowed URIs</i> application preference by separating the URLs with a vertical bar (pipe character), " ", ASCII code 124. For example, the preference could be specified as follows:</p> <pre>file://\server\winshare\images file:///mnt/winshare/images</pre> <p>This sets up the Linux path to the folder /mnt/winshare/images as an alternative location for the Windows path to the network drive \\server\winshare\images.</p>
TS-81410	14.6.0	If you try to export data to file from a table visualization which contains non-unique column names, Spotfire closes unexpectedly.

Key	Version	Summary
TS-81412	14.6.0	Even if you select <i>Count</i> as the <i>Preferred aggregation method</i> for a column, another aggregation method is sometimes incorrectly used as the default when you apply that column to an axis.
TS-81414	14.6.0	The input text in the search field of the hierarchy filter is cut off even if the width of the <i>Filters</i> panel is increased.
TS-81438	14.6.0	An error occurs when you try to add data from Microsoft Access files.
TS-81449	14.6.0	Some mod certificates are not verified as expected even though the mod is signed by Spotfire and published on the Spotfire Community site.
TS-81454	14.6.0	It is not possible to turn off revocation checks for certificates issued by other Spotfire Servers, only for third-party certificates.
TS-81456	14.6.0	If your environment is configured with Information Services running as a separate process, you cannot open the query log ( <code>sql.log</code> ) in Spotfire, because column names are interpreted as new rows.
TS-81550	14.6.0	Unicode text outputs from locally executed Python scripts get corrupted and cause errors.
TS-81589	14.6.0	In the web client, the <code>DisplayName</code> and <code>Description</code> of <code>TypeIdentifiers</code> are not localized based on the browser's preferred languages.
TS-81645	14.6.0	HTTP responses cannot be larger than 2GB when using the web client (Web Player service) on Linux. With this fix, you get improved performance and reduced memory usage when you download large responses over HTTP on Linux.
TS-81693	14.6.0	When using the installed Spotfire client, the <i>Formatting</i> option is not available in the context menu shown when right-clicking on a column in the <i>Data in analysis</i> flyout.
TS-81761	14.6.0	Some functionality that should be enabled for users with the <i>Business Author</i> license is not enabled because the functionality is controlled by license features that are included in the <i>Spotfire Advanced Analytics</i> group (technical name: <code>Spotfire.Dxp.Metrics</code> ).  The following license features are affected, and have been moved to the <i>Spotfire Business Author</i> group (technical name: <code>Spotfire.Dxp.WebAnalyzer</code> ): <i>Advanced aggregation methods</i> , <i>Custom expressions</i> , <i>Execute data functions, f(x) flyout</i> , and <i>Pin data function</i> .
TS-81762	14.6.0	You can no longer control if a group should have authoring capabilities in the web client by setting the license feature <i>Spotfire Business Author</i> ( <code>webAuthor</code> ) in the <i>Spotfire Business Author</i> ( <code>Spotfire.Dxp.WebAnalyzer</code> ) license group.
TS-81770	14.6.0	The documentation about information link filters contains a whitespace in the example screenshot, which can be misleading because whitespaces are not allowed in that context.
TS-81781	14.6.0	When using the built-in data function <i>Geographic nearest neighbors</i> and setting a distance buffer size less than or equal to zero, all distances should be returned.
TS-81827	14.6.0	Sometimes, non-latin characters are not shown within a visualization, for example, in labels.

Key	Version	Summary
TS-81828	14.6.0	When adding a description for Column elements in an information link, the description does not show up in the column properties.
TS-81924	14.6.0	When correctly configuring a previously invalid combination chart, Spotfire might close unexpectedly.
TS-81927	14.6.0	Python data functions fail to run if your user name contains accented characters.
TS-81969	14.6.0	The <code>Date created</code> , <code>Date accessed</code> and <code>Last modified</code> times shown for items in the library are incorrect when the server is configured in the UTC time zone.
TSAS-1183	14.6.0	When developing IronPython scripts in the <i>Automation Services job builder</i> using the <i>Execute Script</i> task, print statements from the script are not shown in the execution report.
TSDC-6877	14.6.0	In the custom query editor for the Vertica connector, the syntax highlighting is incorrect.
TSDC-7778	14.6.0	When you create a data connection in the <i>Google BigQuery Connection</i> dialog, an error sometimes occurs if you switch between the <i>General</i> tab and the <i>Private Endpoints</i> tab repeatedly.
TSDC-7781	14.6.0	<p>In some environments, such as when using Kerberos, Spotfire user delegation for the Cloudera Impala connector must be allowed <i>only</i> for the Spotfire web client, but not for the installed client.</p> <p>This has been fixed by adding a new preference, <code>AllowAnalystDelegation</code>, under <i>Connectors &gt; Impala</i> in the Administration Manager Preferences. This preference determines whether delegation as the current Spotfire user should be allowed in the installed client. Set the preference to <code>False</code> to prevent delegation in the installed client.</p>
TSDC-7783	14.6.0	When you access data with the data connector for Google BigQuery, you cannot select data from a data table for which there is a casing mismatch in the table name as defined in the partition and the schema.
TSDC-7813	14.6.0	It is not possible to open analysis files with Oracle data connections that were saved in Spotfire version 5.5 or earlier.
TSDC-7869	14.6.0	If you try to create a custom query with a number of data types, using the MySQL connector and the official SingleStore ODBC driver, the connection fails to generate output columns.
TSDC-7873	14.6.0	When loading data from a new Redshift or PostgreSQL connection, the default connection and command timeout from the driver is used, rather than the timeout specified in the <i>Views in Connection</i> dialog.
TSDC-7875	14.6.0	<p>When you are loading data from Cloudera Impala using either import with prompting, or on-demand loading with prompting or defined inputs, a backslash character in the selected prompt value will be escaped twice.</p> <p><b>Note:</b> If you encounter syntax errors after this fix, you need to update your custom queries to be compatible with Impala.</p>

# Known Issues

The following are known issues in version 14.6 of the Spotfire® application.

Key	Version	Summary
TS-62137	14.6.0	<p><b>Package installation precedence rules</b></p> <p>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.</p>
TS-66946	14.6.0	<p><b>Scheduled updates cache not available for Web Player service on Linux</b></p> <p>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.</p>
TS-67656	14.6.0	<p><b>"Unable to write data" error message</b></p> <p>Error message "Unable to write data to the transport connection: An established connection was aborted by the software in your host machine."</p> <p>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.</p> <p>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.</p> <p>If users see this error message, the administrator can consider creating a custom configuration that increases the limits for both of the following properties:</p> <ul style="list-style-type: none"> <li><code>spring.servlet.multipart.max-file-size</code>: The total file size for upload cannot exceed the value for this setting.</li> <li><code>spring.servlet.multipart.max-request-size</code>: The total request size for a multipart file upload cannot exceed the value for this setting.</li> </ul> <p><b>Note:</b> 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.</p> <p>Error from Remote Service: Internal Server Error (500) - java.lang.OutOfMemoryError: Java heap space</p>
TS-68596	14.6.0	<p><b>Operating system affects how fonts are rendered</b></p> <p>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.</p>

Key	Version	Summary
TS-69770	14.6.0	<p><b>Empty String columns in exported SBDF causes an error</b></p> <p>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:</p> <pre>spotfire.sbdfe.SBDFError: cannot determine type for column 'EmptyString' ; all values are missing</pre> <p>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 <code>None</code>, NumPy's <code>nan</code>, or Panda's <code>NA</code> or <code>NaT</code> values).</p> <p><b>Workaround:</b></p> <p>To resolve this issue, edit your data function to use the helper function <code>set_spotfire_types</code>.</p> <p><b>Example</b></p> <pre>import pandas as pd import spotfire df = pd.DataFrame(inp) spotfire.set_spotfire_types(df, {'EmptyString': 'String'})</pre>
TS-81883	14.6.0	<p><b>Exception when running script on Linux</b></p> <p>If you use the web client with the Web Player service running on Linux, and you trigger a script containing code that creates a new <code>ScriptDefinition</code>, a <code>PlatformNotSupportedException</code> error will be shown.</p>
TSDC-7552	14.6.0	<p><b>Intermittent issues opening Oracle data connections</b></p> <p>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.</p> <p><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:</p> <ul style="list-style-type: none"> <li>• The property <code>ValidateConnection</code> ensures that a connection is valid before opening it, at the cost of decreased performance.</li> <li>• The properties for pooling, <code>MinPoolSize</code>, <code>MaxPoolSize</code>, and <code>IncrPoolSize</code> you can control how the Oracle connection pool is managed.</li> </ul>

# Installation

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The following are instructions on how to install version 14.6 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\_sfire-app\_<version>\_enterprise\_single\_user\_win.zip
- SPOT\_sfire-app\_<version>\_enterprise\_shared\_computer\_win.zip
- SPOT\_sfire-app\_<version>\_analytics\_win.zip
- SPOT\_sfire-app\_<version>\_datascience\_win.zip
- SPOT\_sfire-app\_<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 Spotfire Enterprise 14.6

1. First install/upgrade the Spotfire Server to version 14.6.
2. Deploy the Spotfire 14.6 distribution on the Spotfire Server 14.6.
3. Finally, install the Spotfire application 14.6 on all client computers using one of the enterprise installers.

## 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 14.6 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 14.6.
2. Deploy the Spotfire 14.6 distribution on the Spotfire Server 14.6.
3. Start the old version of the installed Spotfire application, log on to the Spotfire Server 14.6 and accept the update.

## Compatibility Versions

You can use Spotfire 14.6 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 14.6 are updated to versions 14.5 and 14.0 LTS. This means that .dxd analysis files that you create and save in Spotfire 14.6 can be opened in versions 14.5 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
14.6 LTS	14.5, 14.0 LTS
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
12.0 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

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

## 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, see 'All Spotfire products' at the end of the page, find your product and click the 'Release notes and previous versions' link of the product. On the product page, choose your version from the top right selector.

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

## 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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