



TIBCO Spotfire® Server Release Notes

Software Release 10.10 LTS (10.10.0)

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TIBCO Documentation and Support Services

How to Access TIBCO Documentation

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

The TIBCO Product Documentation website is updated frequently and is more current than any other documentation included with the product. To access the latest documentation, visit <https://docs.tibco.com>.

TIBCO Spotfire Documentation

Documentation for Spotfire Server and related products is available on the [Spotfire Server Product Documentation page](#).

The following documents relevant for this product can be found on the Spotfire Server Documentation site:

- *TIBCO Spotfire® Server and Environment - Quick Start*
- *TIBCO Spotfire® Server and Environment - Installation and Administration*
- *TIBCO Spotfire® Server and Environment Security*
- *TIBCO Spotfire® Server Release Notes*
- *TIBCO Spotfire® Business Author and TIBCO Spotfire® Consumer Release Notes*
- *TIBCO Spotfire® Business Author and Consumer User's Guide*
- *TIBCO Spotfire® Cobranding*
- *TIBCO Spotfire® Qualification Installation and Configuration Manual*
- *TIBCO Spotfire® Qualification User's Guide*
- *Deploying and Using a TIBCO Spotfire® Language Pack*
- *TIBCO Spotfire® Automation Services User's Guide*
- *TIBCO Drivers® - Connecting to an ODBC Data Source Using Spotfire® Analyst*
- *TIBCO Spotfire® Automation Services API Reference*
- *TIBCO Spotfire® Automation Services REST API Reference*
- *TIBCO Spotfire® Server Information Services API Reference*
- *TIBCO Spotfire® Server Library REST API Reference*
- *TIBCO Spotfire® Server Platform API Reference*
- *TIBCO Spotfire® Server Web Services API Reference*
- *TIBCO Spotfire® Server License Agreement*

Release Version Support

Some release versions of TIBCO Spotfire products are designated as long-term support (LTS) versions. LTS versions are typically supported for up to 36 months from release. Defect corrections will typically be delivered in a new release version and as hotfixes or service packs to one or more LTS versions. See also https://docs.tibco.com/pub/spotfire/general/LTS/spotfire_LTS_releases.htm.

How to Contact TIBCO Support

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- For an overview of TIBCO Support, visit <http://www.tibco.com/services/support>.
- For accessing the Support Knowledge Base and getting personalized content about products you are interested in, visit the TIBCO Support portal at <https://support.tibco.com>.
- For creating a Support case, you must have a valid maintenance or support contract with TIBCO. You also need a user name and password to log in to <https://support.tibco.com>. If you do not have a user name, you can request one by clicking Register on the website.

System Requirements for Spotfire Products

For information about the system requirements for Spotfire products, visit <http://spotfi.re/sr>.

How to join TIBCO Community

TIBCO Community is the official channel for TIBCO customers, partners, and employee subject matter experts to share and access their collective experience. TIBCO Community offers access to Q&A forums, product wikis, and best practices. It also offers access to extensions, adapters, solution accelerators, and tools that extend and enable customers to gain full value from TIBCO products. In addition, users can submit and vote on feature requests from within the [TIBCO Ideas Portal](#). For a free registration, go to <https://community.tibco.com>.

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

TIBCO Spotfire Server Release Notes

The release notes for this product version are provided to inform you of new features, known issues, and issues from previous releases that have been closed.

These release notes are for TIBCO Spotfire® Server version 10.10. They cover Microsoft Windows and Linux installations.

These release notes also cover the Right to Use (RTU) products TIBCO Spotfire® Automation Services and TIBCO Spotfire® Qualification.

Spotfire® Server is a Tomcat web application that runs on Windows and Linux operating systems. It is the administrative center of any TIBCO Spotfire® implementation. In addition to providing the tools for configuring and administering the Spotfire® environment, Spotfire Server facilitates the services that make it possible for users to access, blend, and visualize their data, creating analyses that provide actionable insight.

New Features

The following new features have been added to version 10.10 of TIBCO Spotfire® Server.

Python data functions can now be used in web clients and with Automation Services

In addition to the previous support for local Python data functions in Spotfire Analyst, it is now possible to use Python data functions in web clients (such as Spotfire Consumer and Spotfire Business Author) and in Automation Services jobs with the new service on the Spotfire Server. The TIBCO Spotfire® Service for Python makes it easier to scale the usage of Python data functions to large user bases.

Amazon Aurora for PostgreSQL is supported as Spotfire database

[Amazon Aurora with PostgreSQL compatibility](#) is supported as the configuration database for the Spotfire Server.

Amazon Aurora is a fully-managed relational database that is compatible with PostgreSQL.

Amazon RDS for PostgreSQL is supported as Spotfire database

[Amazon RDS for PostgreSQL](#) is supported as the configuration database for the Spotfire Server.

Amazon RDS for PostgreSQL is a fully managed relational database for PostgreSQL in AWS.

Amazon RDS supports [PostgreSQL major version 11](#).

Azure SQL PostgreSQL is supported as Spotfire database

[Azure Database for PostgreSQL](#) is supported as the configuration database for the Spotfire Server.

Azure Database for PostgreSQL is a fully-managed relational database for PostgreSQL in Azure.

Azure Database for PostgreSQL supports different [PostgreSQL versions](#).

Google Cloud SQL for PostgreSQL is supported as Spotfire database

[Google Cloud SQL for PostgreSQL](#) is supported as the configuration database for the Spotfire Server.

Google Cloud SQL is a fully-managed relational database for PostgreSQL in Google Cloud.

Google Cloud SQL supports different [PostgreSQL versions](#).

Added support for SQL Server databases on Linux

[Microsoft SQL Server 2019](#) and [Microsoft SQL Server 2017](#) for Linux are now supported as the configuration database for the Spotfire Server. This is in addition to existing support for the same versions on Microsoft Windows.

- Microsoft SQL Server 2019 (15.x) is the latest public release of SQL Server. For more information see [SQL Server 2019 Release Notes](#).

- Microsoft SQL Server 2017 is the previous public release of SQL Server. For more information see [SQL Server 2017 Release Notes](#).

Information link property setting

In Information Services, use the new property setting `InformationLinkTimeoutMinutes` to configure a timeout for individual information links.

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

Changes in Functionality

This topic contains the changes in functionality for Spotfire Server version 10.10.0.

The Spotfire Server and node manager now use Java 11 instead of Java 8

Java 11 is the latest long-term support (LTS) version.



Additional drivers or existing Java software customizations might need to be verified and upgraded.

The [Oracle Java SE](#) distribution is included in the Spotfire Server and Node Manager packages.

For a complete list of changes, see the [OpenJDK JDK11 Feature List](#) (Java 11 reference implementation) and the [Oracle JDK 11 Release Notes](#) (the Oracle OpenJDK specific distribution).



Due to the update from Java 8 to Java 11, to update the node manager to version 10.10, you must install it on each computer, and then run the node manager upgrade tool.

Changes to the upgrade

If you execute the Upgrade Tool without specifying an older server installation to upgrade, then after the upgrade, the new installation must be bootstrapped. (Previously the Upgrade Tool would do that.)

If you try to update a node with version lower than 10.10.0 from Nodes & Services, and if the Spotfire Server version is greater than or equal to 10.10.0, then an update error message is displayed, explaining why the update is not possible, and the update is not executed.

Additional Ignite port required for Spotfire Server clustering

As of Spotfire Server 10.9, Apache Ignite runs as a stand-alone process by default, instead of embedded in the Spotfire Server process. This configuration requires opening an extra TCP communication port (by default, 5703) in the Spotfire Server host, in addition to the previously-required two ports (by default, 5701 and 5702) for cluster communication.

Updated web help

The web help outputs of the *TIBCO Spotfire® Server and Environment - Installation and Administration* guide and the *TIBCO® Spotfire Server and Environment - Quick Start* guide have been modernized with an updated look and feel and improved search capabilities. However, the new way of producing the help has the implication that any external links pointing to specific help pages in the latest documentation (that included a GUID in the html path) will no longer work.

To work around this problem, keep the browser path, but replace the .html file name with `index.html`, and then search for the topic title.

Microsoft Internet Explorer 11 no longer supported

Microsoft Internet Explorer 11 is no longer a supported browser for accessing the Admin UI apps (Users & Groups, Scheduling & Routing, Nodes & Services, Deployments & Packages, Monitoring & Diagnostics, Automation Services, Server Tools). You can still use this browser to view the Library app and the Analytics app for account details.

Change to recommended directory for SAP/Sybase jConnect JDBC driver

As of this release of Spotfire, you must place the JDBC driver for SAP/Sybase jConnect (`jconn4-jdbc.jar`) in a directory other than the otherwise recommended directory for JDBC drivers (`<installation directory>/tomcat/custom-ext`).

Instead you can place the driver in for example:

```
<installation directory>/tomcat/lib
```



The reason for this is the change to Java 11 and a conflict with Oracle JDBC drivers, that occurs if you try to connect to Oracle with Information Services. The conflict happens because of a known issue in the jConnect driver, see *SAP Note 2827462*.

Deprecated and Removed Features

The following has been deprecated in this release. There are no removed features in this release.

API deprecated

The API to create requests to the server APIs, `WebRequestFactory.CreateSpotfireWebRequest()`, has been deprecated in this release. All requests to the server should be made using the standard APIs `WebRequest.CreateHttp` or `WebRequest.CreateDefault` instead.

Authentication and authorization to the server APIs is done using OAuth2 and registered API client credentials. See the following documentation for more information.

- https://docs.tibco.com/pub/spotfire_server/10.10.0/doc/html/TIB_sfire_server_tsas_admin_help/server/topics/spotfire_server_soap_apis.html
- https://docs.tibco.com/pub/spotfire_server/10.10.0/doc/html/TIB_sfire_server_tsas_admin_help/server/topics/spotfire_server_rest_apis.html
- https://docs.tibco.com/pub/spotfire_server/10.10.0/doc/api/TIB_sfire_server_WebServices_API_Reference/index.html
- https://docs.tibco.com/pub/spotfire_server/10.10.0/doc/api/TIB_sfire_server_REST_API_Reference/library.html

Migration and Compatibility

Spotfire Server version 10.10 contains detailed instructions for migrating from a previous release.

Spotfire Server

See "Upgrading Spotfire" in the [Spotfire Server and Environment - Installation and Administration help](#).



As of Spotfire Server version 10.3.0, server hotfixes can be applied only on the specific service pack version that they were created for. Example: If you currently have version 10.3.1, you can apply server hotfixes only for the 10.3.1 version, such as 10.3.1 HF-001, 10.3.1 HF-002, and so on. If you want a hotfix of a different service pack level, such as 10.3.2 HF-001, you must first make sure to upgrade to that service pack (10.3.2) before applying the hotfix.

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

Spotfire Automation Services

For instructions on how to upgrade to version 10.10 Spotfire Automation Services, see "Updating Services" in the *Spotfire Server and Environment - Installation and Administration help*.



There were major architectural changes introduced in version 7.5.0. If you are upgrading from a version earlier than 7.5.0, refer to the *Spotfire Automation Services 7.5.0 Release Notes* for more information.

Spotfire Qualification

Version 10.10 of Spotfire Qualification should be installed for compatibility with version 10.10 of TIBCO Spotfire.

For instructions on how to upgrade to version 10.10 of Spotfire Qualification, see the [Spotfire Qualification - Installation Guide](#).

Third Party Software Updates

The following third party software (TPS) components have been added or updated for Spotfire Server version 10.10.


10.10.0, June 2020

TPS	New Version
Apache CXF Core	3.3.6
Apache HttpComponents Client	4.5.12
Apache HttpComponents Core	4.4.13
Apache Ignite	2.8.0
Apache Log4j	2.13.2
Apache Tomcat	9.0.35
Bouncy Castle	1.65
JOSE+JWT	8.2.1
Jackson Core	2.10.3
Jetty	9.4.27.v20200227
Microsoft JDBC Driver for SQL Server	8.2.2.
Oracle Java JRE	8u251
PostgreSQL JDBC Driver	42.2.12
Spring Framework	5.2.5
jQuery	3.5.0

Closed Issues

The following table lists closed issues in version 10.10 of Spotfire Server.

Key	Summary
TSAS-923	In the documentation for Automation Services, the information about the Set credentials for external connection job did not explain that it is mandatory to provide username and password.

Key	Summary
TSS-25466	In the documentation, the <code>list-users</code> option [<code>--list-extended-information</code>] was missing its square brackets. Additionally, the Command line reference topic did not explain the meaning of curly brackets. These omissions have been corrected.
TSS-25824	In the documentation, the default value for <code>purge-history-older-than</code> was incorrectly identified as 7. It has been corrected to reflect the default 3.
TSS-26528	The URL used for load balancers for Spotfire Server health check now return HTTP code 503, along with the text <code>STOPPING</code> , if the Spotfire Server is unable to connect to the server database (after it has successfully connected and started). If database connections are later successful, then the HTTP code 200 is returned along with the text <code>RUNNING</code> , as before.
TSS-26591	The retry mechanism for Scheduled Updates did not always work in accordance with the retry configuration. This issue has been fixed.
TSS-26817	A new topic called 'Terminating TLS in a load balancer or reverse proxy' was added to the <i>TIBCO Spotfire® Server and Environment - Installation and Administration</i> manual.
TSS-26863	In the documentation, the data connection logs were misidentified as <code>data_con_pro</code> and <code>data_con_wp</code> . The correct log names are <code>data_connector_pro</code> and <code>data_connector_wp</code> . This error has been corrected.
TSS-26876	The <code>com.spotfire.server.api.Guid</code> class was missing from the API documentation. This omission has been fixed.
TSS-26884	In some cases, validation of a data source succeeded even when connection failed. This issue has been fixed.
TSS-26890	It is now possible to run <code>upgradetool.sh/bat</code> from any working directory.
TSS-26892	<p>An issue prevented the Node Manager JVM from being updated from Nodes & Services. This issue has been fixed.</p>  <p>Due to the update from Java 8 to Java 11, to update the node manager to version 10.10, you must install it on each computer, and then run the node manager upgrade tool.</p>
TSS-26912	The top header for the server administration page was not hidden when a modal dialog was opened. This caused the header to overlap the modal dialog and prevented closure of the modal dialog, when the screen resolution was low, because the close button was obscured by the page header.
TSS-26922	The <code>getPermissions()</code> method of the public API <code>LibraryService</code> web service would previously return an inverted value for the <code>inherited</code> field. This issue has been fixed.
TSS-26928	Spotfire Server now has higher maximum throughput in clustered environments, due to less locking and traffic between servers.
TSS-26935	The Browse Library modal dialog did not use all of the available space, resulting in not displaying the Library contents properly.
TSS-26960	The topic "Configuring HTTPS" in the manual <i>TIBCO® Spotfire Server Installation and Configuration</i> has been updated to show the correct TLS version.
TSS-26996	When using Spotfire Server 10.7 and later, users accessing the Spotfire Server using the Spotfire Analyst and logging in using username and password authentication (towards the Spotfire database) did not get the option to change their passwords. This issue has been fixed.
TSS-27005	When running Apache Ignite as a standalone process (the default since TIBCO Spotfire Server 10.9), some TCP communication-related configuration properties are not applied, potentially leading to instability and lower performance. This issue has been fixed.

Key	Summary
TSS-27011	The remote configuration tool did not contain the native libraries necessary for authentication.
TSS-27019	In the Monitoring & Diagnostics app, Server Diagnostics tab, the Allocated memory value displayed an incorrect value on the thousands separator, which was interpreted as a decimal separator.
TSS-27021	For PostgreSQL, if the server database was in a schema other than public, then the database consistency verification failed, prohibiting the server to start.
TSS-27058	The topic "Setting action logging to write to a file from the configuration tool" in the <i>TIBCO Spotfire® Server Installation and Administration</i> guide contained incorrect steps.
TSS-27070	When PostgreSQL was used for a Spotfire Server database, some operations involving deployments and library items created orphaned Large Objects in the database. (Orphaned Large Objects can be detected and managed with the PostgreSQL <code>vacuumlo</code> shell command.)
TSS-27103	In the Config tool, the Edit Bootstrap panel did not parse PostgreSQL connection URLs properly if the URLs contained connection properties.
TSS-27105	Some modal dialog boxes did not correctly display their contents in Internet Explorer 11. Additionally, occasionally, the text in a drop-down list box would be displayed at the bottom of the drop-down list box instead of in the middle of the box.
TSS-27142	When unknown or invalid keys existed in the configured AWS S3 external library storage, the CLI command <code>check-external-library</code> would exit prematurely.
TSS-27152	If you were running Spotfire 10.7 or later, and if authentication was configured for username and password, and if your password contained non-ASCII characters, then you could not log in using the Spotfire Analyst.

Known Issues

The following table lists known issues in version 10.10 of Spotfire Server.

Key	Summary
TS-58033	<p>In the following situation, Spotfire users cannot view certain analysis files in the web client:</p> <ul style="list-style-type: none"> • The user is authenticated using Kerberos with delegation. • The user wants to view an analysis that accesses a TERR node. <p>Workaround: Give Read permission for the private key of the Web Player Node certificate to users.</p> <p>Procedure:</p> <ol style="list-style-type: none"> 1. On the computer running the Web Player node manager, open a command window as an administrator. 2. Enter <code>mmc</code>. 3. In the Console dialog that opens, click File > Add/Remove Snap-ins. 4. In the Add or Remove Snap-ins dialog, select Certificates and click Add. 5. In the Certificates snap-in dialog, select Computer account and click Next. 6. In the Select Computer dialog, click Finish. 7. In the Add or Remove Snap-ins dialog, click OK. 8. In the Console Root window, click Certificates (Local Computer) to view the certificate stores for the computer. 9. Go to Certificates (Local Computer)\Personal\Certificates, and then right-click the certificate that was issued by "TIBCO Spotfire Signing CA". 10. Select All Tasks > Manage Private Keys. 11. In the Permissions dialog, under Group or user names, select a group that contains all Spotfire users that need to run analyses using the TERR service. 12. Under Permissions for Name, select the Allow check box in the Read row, and then click OK. 13. In the Spotfire administration interface or in the Windows Services dialog, restart the Web Player node.
TS-62137	<p>Python packages that are installed by the Administrator (through an SPK) take precedence over packages installed using the Python Tools from the Spotfire Analyst Tools menu. If users attempt to update a package previously installed by an SPK, then the package update is installed, but the update is ignored.</p>
TSS-21408	<p>In Spotfire environments with an Oracle database, Spotfire occasionally uses more cursors than are available. This can occur in a variety of situations, but in all cases the following error appears in the server log: <code>ORA-01000 maximum open cursors exceeded</code>, and the server stops functioning.</p> <p>Workaround: If this occurs, try setting the <code>OPEN_CURSORS</code> property in Oracle to at least 500, and then restart the server.</p>
TSS-23602	<p>In the Automation Services area of the administration interface, if an Automation Services job is in the <code>IN_PROGRESS</code> state, and all of the servers in the cluster stop running or are restarted, the job will remain in the <code>IN_PROGRESS</code> state in the Activity view even after the servers are back online.</p> <p>Workaround: Clear the job activity from the Activity view by right-clicking the activity and then clicking Clear selected activity.</p>
TSS-26972	<p>Updating the node manager from Nodes & Services from a 10.9 or earlier release to a 10.10 release is not supported due to the update from Java 8 to Java 11.</p> <p>To update the node manager to version 10.10, you must install it on each computer, and then run the node manager upgrade tool.</p>

Key	Summary
none	<p>If your Spotfire implementation uses Web authentication through OpenID Connect or custom web authentication, Spotfire Package Builder cannot be used to deploy extensions to the server.</p> <p>Workaround: Deploy the extension package by using the Deployments & Packages area of Spotfire Server.</p>