

TIBCO Spotfire® Server Release Notes

Software Release 10.0

Important Information

SOME TIBCO SOFTWARE EMBEDS OR BUNDLES OTHER TIBCO SOFTWARE. USE OF SUCH EMBEDDED OR BUNDLED TIBCO SOFTWARE IS SOLELY TO ENABLE THE FUNCTIONALITY (OR PROVIDE LIMITED ADD-ON FUNCTIONALITY) OF THE LICENSED TIBCO SOFTWARE. THE EMBEDDED OR BUNDLED SOFTWARE IS NOT LICENSED TO BE USED OR ACCESSED BY ANY OTHER TIBCO SOFTWARE OR FOR ANY OTHER PURPOSE.

USE OF TIBCO SOFTWARE AND THIS DOCUMENT IS SUBJECT TO THE TERMS AND CONDITIONS OF A LICENSE AGREEMENT FOUND IN EITHER A SEPARATELY EXECUTED SOFTWARE LICENSE AGREEMENT, OR, IF THERE IS NO SUCH SEPARATE AGREEMENT, THE CLICKWRAP END USER LICENSE AGREEMENT WHICH IS DISPLAYED DURING DOWNLOAD OR INSTALLATION OF THE SOFTWARE (AND WHICH IS DUPLICATED IN THE LICENSE FILE) OR IF THERE IS NO SUCH SOFTWARE LICENSE AGREEMENT OR CLICKWRAP END USER LICENSE AGREEMENT, THE LICENSE(S) LOCATED IN THE "LICENSE" FILE(S) OF THE SOFTWARE. USE OF THIS DOCUMENT IS SUBJECT TO THOSE TERMS AND CONDITIONS, AND YOUR USE HEREOF SHALL CONSTITUTE ACCEPTANCE OF AND AN AGREEMENT TO BE BOUND BY THE SAME.

ANY SOFTWARE ITEM IDENTIFIED AS THIRD PARTY LIBRARY IS AVAILABLE UNDER SEPARATE SOFTWARE LICENSE TERMS AND IS NOT PART OF A TIBCO PRODUCT. AS SUCH, THESE SOFTWARE ITEMS ARE NOT COVERED BY THE TERMS OF YOUR AGREEMENT WITH TIBCO, INCLUDING ANY TERMS CONCERNING SUPPORT, MAINTENANCE, WARRANTIES, AND INDEMNITIES. DOWNLOAD AND USE OF THESE ITEMS IS SOLELY AT YOUR OWN DISCRETION AND SUBJECT TO THE LICENSE TERMS APPLICABLE TO THEM. BY PROCEEDING TO DOWNLOAD, INSTALL OR USE ANY OF THESE ITEMS, YOU ACKNOWLEDGE THE FOREGOING DISTINCTIONS BETWEEN THESE ITEMS AND TIBCO PRODUCTS.

This document contains confidential information that is subject to U.S. and international copyright laws and treaties. No part of this document may be reproduced in any form without the written authorization of TIBCO Software Inc.

TIBCO, Two-Second Advantage, TIBCO Spotfire, TIBCO Spotfire Analyst, TIBCO Spotfire Automation Services, TIBCO Spotfire Server, TIBCO Spotfire Web Player, TIBCO ActiveSpaces, TIBCO Spotfire Developer, TIBCO Enterprise Message Service, TIBCO Enterprise Runtime for R, TERR, TIBCO Hawk, and TIBCO Spotfire Statistics Services are either registered trademarks or trademarks of TIBCO Software Inc. in the United States and/or other countries.

All other product and company names and marks mentioned in this document are the property of their respective owners and are mentioned for identification purposes only.

THIS SOFTWARE MAY BE AVAILABLE ON MULTIPLE OPERATING SYSTEMS. HOWEVER, NOT ALL OPERATING SYSTEM PLATFORMS FOR A SPECIFIC SOFTWARE VERSION ARE RELEASED AT THE SAME TIME. SEE THE README FILE FOR THE AVAILABILITY OF THIS SOFTWARE VERSION ON A SPECIFIC OPERATING SYSTEM PLATFORM.

THIS DOCUMENT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT.

THIS DOCUMENT COULD INCLUDE TECHNICAL INACCURACIES OR TYPOGRAPHICAL ERRORS. CHANGES ARE PERIODICALLY ADDED TO THE INFORMATION HEREIN; THESE CHANGES WILL BE INCORPORATED IN NEW EDITIONS OF THIS DOCUMENT. TIBCO SOFTWARE INC. MAY MAKE IMPROVEMENTS AND/OR CHANGES IN THE PRODUCT(S) AND/OR THE PROGRAM(S) DESCRIBED IN THIS DOCUMENT AT ANY TIME.

THE CONTENTS OF THIS DOCUMENT MAY BE MODIFIED AND/OR QUALIFIED, DIRECTLY OR INDIRECTLY, BY OTHER DOCUMENTATION WHICH ACCOMPANIES THIS SOFTWARE, INCLUDING BUT NOT LIMITED TO ANY RELEASE NOTES AND "READ ME" FILES.

Copyright © 1994-2018. TIBCO Software Inc. All Rights Reserved.

Contents

TIBCO Spotfire Server Documentation and Support Services	4
TIBCO Spotfire Server Release Notes	6
New Features	6
Changes in Functionality	6
Deprecated and Removed Features	7
Migration and Compatibility	8
Closed Issues	9
Known Issues	10

TIBCO Spotfire Server 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 Server Documentation

The following documents for this product can be found on the TIBCO Documentation site:

- *TIBCO Spotfire® Server and Environment - Quick Start Guide*
- *TIBCO Spotfire® Server and Environment - Installation and Administration*
- *TIBCO Spotfire® Cobranding*
- *TIBCO Spotfire® Server Release Notes*
- *TIBCO Spotfire® Server Web Services API Reference*
- *TIBCO Spotfire® Server Server Platform API Reference*
- *TIBCO Spotfire® Server Information 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

You can contact TIBCO Support in the following ways:

- 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 10.0. They cover Microsoft Windows and Linux installations.

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 are available in version 10.0 of Spotfire Server.

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

Scheduling Automation Services jobs

In the new **Automation Services** area in the administration interface, you can schedule Automation Services jobs, and monitor the activity of all Automation Services jobs that are run in your Spotfire environment; see [Automation Services job scheduling](#).

The TERR service

The TIBCO Enterprise Runtime for R (TERR) service is now available as part of the Spotfire environment, along with the existing Web Player service and Automation Services.

Node managers can now be installed on Linux computers to run the TERR service; see [Installing a node manager \(RPM Linux\)](#) or [Installing a node manager \(Tarball Linux\)](#).

Improved scheduled update job handling

Scheduled update jobs that cannot be immediately run are now all queued on the Spotfire Server for distribution to Spotfire Web Player instances as they become available. This results in a more robust routing of jobs than previously, where each service maintained its own job queue after its maximum number of concurrent updates was reached. Administrators can still set the maximum number of concurrent jobs per service; for more information, see the **concurrentUpdates** setting in [Spotfire.Dxp.Worker.Web.config](#) file.

You can change how often the server deletes the scheduled job history by editing the `configuration.xml` file; see [Changing how often the scheduled job history is cleared](#).

Node manager performance monitoring

At the DEBUG logging level, the node manager now produces a `performance.monitoring.log` file that is similar to the server log file with the same name.

New commands

[create-scheduled-jobs](#) creates scheduled Automation Services jobs from a local JSON file that is created by the administrator.

[remove-config-property](#) modifies the `configuration.xml` file to remove the value(s) of a specific configuration property.

Changes in Functionality

These are the changes in functionality in version 10.0 of Spotfire Server.

`configuration.xml` file change

In the `configuration.xml` file, the name of the following section has changed from `<scheduled-updates>` to `<scheduled-jobs>` because the property now affects scheduled Automation Services jobs as well as scheduled updates:

```
<scheduled-updates>
  <!-- All scheduled updates details older than the specified number of days will
  be automatically deleted.
  Default: one week, value must be strictly positive.-->
  <purge-history-older-than>7</purge-history-older-than>
</scheduled-updates>
```

This is how the section now appears:

```
<scheduled-jobs>
  <!-- All the job executions older than the specified number of days will be
  automatically deleted. Default: one week-->
  <purge-history-older-than>7</purge-history-older-than>
</scheduled-jobs>
```

For additional information, see [Changing how often the scheduled job history is cleared](#).

Clustering

Clustering is now implemented using Apache Ignite, and clustering is enabled in all Spotfire environments. Upgrading to Spotfire 10.0 automatically switches any existing clusters to the Apache Ignite method.



In addition to the main clustering port (default: 5701), Apache Ignite uses a second port, whose port number is equal to the first clustering port number plus one.

Updated default JDBC driver for Amazon Redshift in Information Services

The default JDBC driver for Amazon Redshift that is included in Information Services has been updated.

If you have Information Services/Information Designer data sources for Amazon Redshift that you created in an earlier version of Spotfire, you must update those data sources to use the new driver.

Updating an Amazon Redshift data source in Information Designer

1. Open Spotfire Analyst.
2. On the menu bar, select **Data > Information Designer**.
3. In the Information Designer dialog, click the **Data Sources** tab.
4. On the Data Sources tab, locate an Amazon Redshift data source that you want to update. Right-click the data source and select **Edit...**
5. In the **Connection URL** field, update the following part of the connection URL:

```
jdbc:postgresql: → jdbc:redshift:
```
6. To save your changes, click **Save**.

Deprecated and Removed Features

These are the deprecated or removed features in version 10.0 of Spotfire Server.

Hazelcast and ActiveSpaces are no longer supported as clustering methods.

Deprecated functions in Information Designer API

The following Java functions in the Information Services API are deprecated, and will no longer be available for use in a future release of TIBCO Spotfire®:

- `MetadataItem.fromXML(Element)`
- `MetadataItem.ToXML(Element)`

- `JDBCTypeSettings.convertToExternal()`
- `JDBCTypeSettings.formatXML(Element)`
- `JDBCTypeSettings.parseXML(Element)`
- `JDBCContext.resolveTable(SourceTable)`

SAP BW Connector (ODBO)

Support for using the ODBO interface and drivers (SAP BW OLE DB for OLAP provider) with the Spotfire Connector for SAP BW has been deprecated. In a future release of TIBCO Spotfire®, the SAP BW connector will only support using the more efficient BAPI interface and drivers.

In version 7.11 LTS of TIBCO Spotfire®, support for the more efficient BAPI interface was introduced in the Spotfire Connector for SAP BW. During an interim period, the SAP BW Connector includes support for using either the BAPI interface, or the previous solution, the ODBO interface for connecting to SAP BW in Spotfire.

To migrate and start using BAPI, install the BAPI drivers (SAP NetWeaver RFC SDK) on your computers that run Spotfire clients: [Installing the BAPI drivers for the Spotfire Connector for SAP BW](#)

Migration and Compatibility

Spotfire Server version 10.0 contains detailed instructions for migrating from a previous release. See [Upgrading Spotfire](#) in the Spotfire Server help.

Upgrading issue

If *all* of the following statements are true, you must set a signing region before upgrading Spotfire Server:

- You are upgrading from Spotfire 7.13 or earlier.
- You have external library storage configured for Amazon S3.
- You have set a non-default endpoint in the Amazon S3 configuration.
- You have defined data sources used by Information Services.

Workaround for version 10.0.x upgrading issue

1. Install Spotfire Server 10.0, but do not run the upgrade tool.
2. Open a command line and export the active server configuration from the older version by using the **export-config** command.

Example: `config export-config --bootstrap-config=C:\tibco\tss\`

For additional information, see [export-config](#) and [Executing commands on the command line](#).

3. Run the **config-library-external-s3-storage** command and set a signing region.

Example: `config config-library-external-s3-storage --region=us-east-1`

For additional information, see [config-library-external-s3-storage](#).

4. Import the configuration file back to the Spotfire database by using the **import-config** command.

Example: `config import-config --bootstrap-config=C:\tibco\tss\`

For additional information, see [import-config](#).

5. Run the upgrade tool by doing the following:
 - a. On the command line, go to the <installation_dir>/tools/upgrade directory.
 - b. Enter either `upgrade.bat` (Windows) or `upgrade.sh` (Linux).

Closed Issues

The following table lists important closed issues in version 10.0 of Spotfire Server.

Key	Summary
none	If you are using external library storage, the upgrade tool now works correctly.
TSS-19969	In the Cobranding template, the <loginlogo> tag has been removed and a <navigationLogo> tag has been added.
TSS-20757	In Monitoring & Diagnostics, on the Instances page, the instances list could take a long time to render in an environment where many services are deployed, particularly when those services are under a heavy load or unable to respond immediately.
TSS-20893	Resource pool mapping is retained when a node manager is restarted or a service is upgraded.
TSS-21907	A note about the changed default delegation policy for Kerberos authentication, as of Spotfire version 7.7, has been added to all the affected documentation.
TSS-22523	When upgrading from Spotfire Server 7.8.1 HF-010 to 7.13, resource pool mapping is retained.
TSS-22535	Previously in Nodes and Services, when upgrading from a Spotfire version earlier than 7.10, node managers were sometimes incorrectly shown as online.
TSS-22742	In the administration interface, the start and end times of Automation Services jobs are now displayed in the local time.
TSS-22821	In Monitoring & Diagnostics, there was a discrepancy in the numbers given for "Used memory".
TSS-22972	During a planned service shutdown, the following ERROR level message incorrectly appeared in the <code>NM.log</code> file: <pre>ERROR 2018-06-14T16:04:28,068+0530 [pool-4-thread-17] server.nodemanager.ServiceMonitor: The service [WEB_PLAYER]:b586648b-b0a1-4dc7-a770-3f3b485767d9 exited and will not be restarted.</pre>
TSS-23004	Previously adding an empty group name to the list of LDAP groups to be synchronized caused all groups to be synchronized. Empty group names will now be ignored.

Key	Summary
TSS-23159	The API documentation incorrectly showed two OAuth2 authorization scopes for all API methods.
TSS-23282	The "Statistica Engine" Spotfire extension incorrectly appeared as an available package for the Web Player service.
TSS-23427	In Spotfire Server 7.13 and 7.14, the configuration property <code>{{user-directory.allow-database-users}}</code> was incorrectly used instead of <code>{{user-directory.allow-database-user-creation}}</code> to disable the adding of database users to the user directory.
TSS-23457	When using Microsoft SQL Server, license synchronization failed for users who were members of more than 50 groups.

Known Issues

The following table lists known issues in version 10.0 of Spotfire Server.

Key	Summary
none	<p>Communication with a worker node fails when the list of trusted Certification Authorities on the computer is large. While it is unlikely that you will see this happen on server versions of Windows, it is common on Windows 7 (which is an unsupported platform).</p> <p>If you encounter this problem on a Windows server version, see the following support note: https://support.microsoft.com/en-us/kb/2801679.</p> <p>Workaround: Reduce the number of trusted CA certificates manually or by using the "Fix it" tool linked from the KB article, as described in the article.</p>
none	When upgrading from a 7.0 implementation that includes Spotfire Server and Spotfire Web Player, there is no backward compatibility for the web client URL to RSS.ashx.
none	If you are upgrading and have external library storage configured for Amazon S3, see Migration and Compatibility for an issue that may apply to your implementation.
TSS-16445	<p>In Monitoring & Diagnostics, the Automation Services page displays a maximum of 300 jobs, beginning with the most recent.</p> <p>Workaround: To view older jobs, use the Search box.</p>

Key	Summary
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. If this occurs, try setting the <code>OPEN_CURSORS</code> property in Oracle to at least 500, and then restart the server.</p> <p>Fixes to Spotfire 7.11 make this issue less likely to occur, but the best way of avoiding this issue, and many others, is to monitor and optimize your Spotfire environment. For more information, see Monitoring and Diagnostics in the Spotfire Server help.</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 selecting the activity and then clicking Actions > Clear selected activity.</p>
TSDK-597	<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>
TSWP-9847	<p>In the library browser on the web client, clicking Delete on a data file will not delete the file if the data is linked to an analysis file.</p> <p>Workaround: Delete the data file from the library using Spotfire Analyst.</p>
TSS-23991	<p>When upgrading to version 10.0 from an earlier version of Spotfire Server, the Scheduled Updates setting <code><purge-history-older-than></code> has been moved, and the setting in its old location is not read. The setting defaults to purging history records for Scheduled Updates that are older than 7 days.</p> <p>If you have configured the setting <code><purge-history-older-than></code> before, refer to the chapter 'Changing how often the scheduled job history is cleared' in version 10.0 of the TIBCO Spotfire® Server and Environment Installation and Administration manual, to configure the setting again.</p>