TIBCO Spotfire® Statistics Services Release Notes

Software Release 10.3.0 LTS
April 2019

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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 Statistics Services documentation

You can find the following documents for TIBCO Spotfire® Statistics Services in the TIBCO Documentation Library.

- *Release Notes*
- *System Requirements*
- *Installation and Administration*
- *Package Management for the TIBCO Spotfire® Environment*
- *User's Guide*
- *Java API Reference*
- *C# API Reference*
- *URL API Reference*
- *SpotfireUtils Package Reference*
- *Release Notes*
- *License Agreement*

TIBCO Enterprise Runtime for R documentation

You can find the following documents for TIBCO Enterprise Runtime for R in the TIBCO Documentation Library.

- *TIBCO® Enterprise Runtime for R Technical Documentation*
- *Language Reference* (HTML)
- *Differences Between TIBCO® Enterprise Runtime for R and Open-Source R* (HTML)
- *Release Notes* (PDF)
- *License Agreement* (PDF)

You can also find links to CRAN package compatibility reports for this release on TIBCO Cloud™ Spotfire®.

TIBCO Spotfire Analyst documentation

You can find the following documents for TIBCO Spotfire® Analyst in the TIBCO Documentation Library.

- *TIBCO Spotfire® Analyst User's Guide*
- *TIBCO Spotfire® API Reference*
- *TIBCO Spotfire® Administration Manager User's Guide*

- *TIBCO Spotfire® Cobranding*

- *Deploying and Using a TIBCO Spotfire® Language Pack*

- *Running TIBCO Spotfire® on Citrix XenApp™*

- *Working with Cubes in TIBCO Spotfire®*

- *TIBCO Spotfire® Analyst Release Notes*

- *TIBCO Spotfire® License Agreement*

- *TIBCO Spotfire® Language Pack License Agreement*

TIBCO Spotfire Server documentation

The following documents for this product can be found in the TIBCO Spotfire® Server:

- *TIBCO Spotfire® Server Installation and Administration*

- *TIBCO Spotfire® Server Quick Start*

- *TIBCO Spotfire® Business Author and Consumer User's Guide*

- *TIBCO Spotfire® Cobranding*

- *TIBCO Spotfire® Server Web Services API*

- *TIBCO Spotfire® Server Platform API*

- *TIBCO Spotfire® Server Information Services API*

- *TIBCO Spotfire® Server REST API*

- *TIBCO Spotfire® Server Release Notes*

- *TIBCO Spotfire® Server License Agreement*

System Requirements for Spotfire Products

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

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.

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 Statistics Services Release Notes

New and changed features for TIBCO Spotfire® Statistics Services are described in this document.

New Features

This release has no new features.

Deprecated and Removed Features

The following features have been removed from this release of Spotfire Statistics Services.

- This release of Spotfire Statistics Services removes support for Spotfire S+ (S-PLUS).

- Because support for S-PLUS has been removed from Spotfire Statistics Services, support for Spotfire Statistics Services - Local Adapter has also been removed. If you must develop and test locally any open-source R functions that are not compatible with TIBCO® Enterprise Runtime for R (TERR™), then you can call these functions using the TERR™ library RinR, as needed. See the TERR documentation for more information.

Changes in Functionality

TIBCO Spotfire® Statistics Services version 7.11.2 no longer supports analyses that use the S-PLUS engine.

Migration and Compatibility

This topic lists the migration and compatibility issues for TIBCO Spotfire® Statistics Services 7.11.2.

- For information about migrating server properties, .jar files, and data from an earlier installation, see the *TIBCO Spotfire® Statistics Services Installation and Administration Guide*.

- For a list of tested third-party software and systems, see the *TIBCO Spotfire® Statistics Services System Requirements*.

- We tested the TSSS connector Eclipse plug-in with Eclipse versions 3.6 to 4.2.2 (Juno). You can use the plug-in for remote package submission. See the *TIBCO Spotfire® Statistics Services User's Guide* for more information.

This release of Spotfire Statistics Services includes TIBCO® Enterprise Runtime for R (TERR™) version 5.1. TERR™ 5.1 is compatible with open-source R version 3.5.2. Packages built with previous versions of R or TERR must be rebuilt to use with this version.

Closed Issues

TIBCO Spotfire® Statistics Services version 7.11.2 includes the following closed issues.

Key	Description
TSSS-2533	Documentation has been added to address an error reported due to lack of space in the database between regularly-scheduled cleanup actions.

Known Issues

The section lists known issues in this release.

Issue	Information and Workaround
Data limit for SPXML strings.	If you are using the Spotfire Statistics Services Java or C# API to send data through Spotfire Statistics Services, you must limit the data to a size that can be sent using SPXML. If the data exceeds the allowed size of 512,000 bytes, the API throws an exception.

The TERR engine can fail on startup on Redhat Enterprise Linux 5	If you are running Spotfire Statistics Services on Redhat Enterprise Linux 5, you can encounter a problem with the TERR engine failing on startup. This is an issue with certain versions of Java (such as version 1.8.0_171). The error is displayed as follows:
	
	``#
	# A fatal error has been detected by the Java Runtime Environment:
	#
	# SIGSEGV (0xb) at pc=0x0000003ac2cbbfa5, pid=17668, tid=1074792768
	#
	# JRE version: 8.0_171-b15
	# Java VM: Java HotSpot(TM) 64-Bit Server VM (23.25-b01 mixed
	# mode linux-amd64 compressed oops)
	# Problematic frame:
	# C [libstdc++.so.6+0xbbfa5] __cxa_allocate_exception+0x55
	#```
	
	You can work around this problem by adding the following code to the file `init.d/spserver`, immediately after the first line `#!/bin/sh`:
	
	``LD_PRELOAD=libstdc++.so.6
	export LD_PRELOAD```

Reported uninstallation error could be incorrect on UNIX or Linux	On UNIX or Linux platforms, the uninstaller might report that some items could not be removed. Due to platform open file semantics, the installer might be able remove all files and directories, but not be able to correctly detect the removal.
Manual startup on UNIX or Linux might be required	In some cases, the Spotfire Statistics Services installation on UNIX or Linux does not result in the service starting, even if the installer specifies startup. In this case, the server administrator can start the service manually by running the following command from the installation directory: ```init.d/spserver start```

Issue	Information and Workaround
Unicode limitations with SAS and MATLAB	Arbitrary Unicode characters in column names can be mangled by both SAS and MATLAB. • If you use SAS, you can address this issue by using alphanumeric characters in the column names and using arbitrary Unicode characters in the labels associated with the columns. • If you use MATLAB, note that version 7.11.1 allows creation and manipulation of strings with arbitrary Unicode characters; however, for structure names (used for storing column names), arbitrary Unicode characters are mangled. This is due to a limitation of MATLAB.

Memory limitations	When you are running R code, you might encounter slowness or failing code because of inadequately assigned system resources. You can correct this problem by setting the following options in the file `RHOME/etc/Rprofile.site` on UNIX or Windows:
	
	• Increase the memory limit to 4000MB by adding the following code:
	`library(utils)`
	`memory.limit(4000)`
	• Adjust the java heap size to 2GB by adding the following code:
	`options(java.parameters = "-Xmx2g")`
	
	Adjust these settings according to your machine's capabilities.

Slow at first startup	Spotfire Statistics Services unpacks and deploys the statistical engines the first time the server is started. This causes longer than typical startup times on initial startup. Future restarts of the server will be much faster.
APIs assign a default user name and password	In this version of the Spotfire Statistics Services APIs, the constructors require authentication credentials to work properly. We highly recommend that you use API constructors that include the username and password arguments, even if authentication is not enabled on your server. If you use a constructor without providing username or password, the constructor provides defaults. (`username` is "nobody" and `password` is a randomly-generated unique ID.) Note that you can use the default username to call methods, such as delete or `getJobs`, that take username as an argument to manage users' jobs.

Issue	Information and Workaround
Using style sheets for displaying job results	Some browsers, such as Firefox, have problems rendering a page with a stylesheet that does not belong to the same domain. Server administrators must ensure the stylesheet is available from a URL that is always in the same domain with the server (or a cluster URL) used to service the request.

Note that if users try to retrieve a list of jobs with such a browser, and they see only blank pages, they can always view the page's XML source to display valid data. |