TIBCO Spotfire® Statistics Services Release Notes

Software Release 12.0 LTS (12.0.7)



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TIBCO Spotfire Statistics Services Release Notes

New and changed features for TIBCO Spotfire[®] Statistics Services are described in this document. This release of Spotfire Statistics Services contains various bug fixes.

New Features

Version 12.0 of Spotfire® Statistics Services contains no new features.

Changes in Functionality

Version 12.0 of Spotfire Statistics Services contains the following changes in functionality.

Key	Version	Summary
SPOT-1758	12.0.0	Updated operating system requirements
		Microsoft Windows Server 2012 and Microsoft Windows Server 2012R2 are no longer supported as the operating system for the following Spotfire products:
		TIBCO Spotfire Server
		TIBCO Spotfire Web Player
		TIBCO Spotfire Automation Services
		TIBCO Spotfire Statistics Services
		TIBCO Enterprise Runtime for R - Server Edition
		TIBCO Spotfire Service for Python
		Citrix with TIBCO Spotfire® Analyst & Desktop
		Remote Desktop Services with TIBCO Spotfire® Analyst & Desktop

Deprecated and Removed Features

Deprecated features

Version 12.0 of Spotfire Statistics Services contains the following deprecated features. These deprecated features will be removed in a future version of Spotfire Statistics Services.

Key	Version	Summary
SPOT-1716	12.0.0	Deprecated APIs The C# and Java APIs are deprecated. They will be removed in a later release. Deprecated as of version 12.0 of Spotfire Statistics Services.
TSSS-2607	12.0.0	Multicast protocol for clustering deprecated As of version 10.10.0 of Spotfire Statistics Services, the Multicast protocol for clustering is deprecated. It will be removed in a future release. Consider using JMS for clustering instead.

Removed features

No features have been removed in version 12.0 of Spotfire Statistics Services.

Third Party Software Updates

Version 12.0 of Spotfire Statistics Services contains the following third party software (TPS) component updates.

Key	Version	Summary
TSSS-3056	12.0.7	The Oracle JDK is updated to 11.0.22.
TSSS-3055	12.0.7	 Apache Commons IO updated to 2.15.1 Apache Commons Lang3 updated to 3.14.0 Apache Commons Logging updated to 1.3.0 Apache Tomcat updated to 9.0.85. Apache Log4J updated to 2.22.1 FasterXML/Jackson-Databind updated to 2.16.1 JSON in Java updated to 20240205 Spring Framework updated to 5.3.31 Spring Security updated to 5.8.9 The bundled Spotfire Enterprise Runtime for R is updated to version 6.1.2.
TSSS-3047	12.0.6	Oracle JDK updated to 11.0.21
TSSS-3046	12.0.6	 Apache ActiveMQ updated to 5.17.6 Apache Commons DBCP2 updated to 2.11.0 Apache Commons IO updated to 2.15.0 Apache Commons Net updated to 3.10.0 Apache Commons Pool updated to 2.12.0 Apache Log4J updated to 2.21.1 Apache Log4J updated to 9.0.83 FasterXML/Jackson-Annotations updated to 2.15.3 FasterXML/Jackson-Databind updated to 2.15.3 FasterXML/Jackson-Databind updated to 2.15.3 H2 Database updated to 2.2.224 Jakarta Transaction API updated to 1.3.3. JAXB Runtime updated to 2.3.9 JSON in Java updated to 20231013 Spring Framework updated to 5.8.8 Spotfire Enterprise Runtime for R updated to 6.1.1
TSSS-3037	12.0.5	The bundled Spotfire Enterprise Runtime for R (TERR) engine is updated to 6.1.0.

Key	Version	Summary
TSSS-3033	12.0.5	 Apache ActiveMQ updated to 5.17.5 Apache Commons DBCP2 updated to 2.10.0 Apache Commons IO updated to 2.13.0 Apache Commons Lang3 updated to 3.13.0 Apache Tomcat updated to 9.0.80 Eclipse Jetty updated to 9.4.52.v20230823 FasterXML/Jackson-Databind updated to 2.15.2 H2 Database updated to 2.2.222 (See Migration for more information) JAXB runtime updated to 2.3.8 JSON in Java/org.json updated to 20230618 Oracle JDK updated to 11.0.20 Spring Security updated to 5.3.29 Spring Security updated to 5.8.6
TSSS-3026	12.0.4	 Spring Security updated to 5.8.6 Apache Tomcat updated to 9.0.74 FasterXML/jackson-databind updated to 2.15.0 Oracle JDK updated to 11.0.19 Spring Framework updated to 5.3.27 Spring Security updated to 5.8.3 TIBCO Enterprise Runtime for R engine updated to 6.0.3
TSSS-3009	12.0.3	TIBCO Enterprise Runtime for R updated to 6.0.2
TSSS-2994	12.0.3	 Apache Active MQ updated to 5.17.3 Apache Commons Net updated to 3.9.0 Apache Commons File Upload updated to 1.5 Apache HttpComponents HttpClient updated to 4.5.14 Apache Log4j updated to 2.20.2 Apache Tomcat upgraded to 9.0.73 FasterXML/jackson-annotation updated to 2.14.2 FasterXML/jackson-core updated to 2.14.2 FasterXML/jackson-databind updated to 2.14.2 Java JDK updated to 11.0.18 JAXB Runtime updated to 2.3.7 JSON updated to 20230227 Spring Framework updated to 5.3.26 Spring Security updated to 5.8.2

Key	Version	Summary
TSSS-2981	12.0.2	 Apache ActiveMQ updated to 5.17.2 Apache Commons Text updated to 1.10.0 Apache Log4j updated to 2.19.0 Apache Tomcat updated to 9.0.68 FasterXML/Jackson Databind updated to 2.13.4.1 JAXB Runtime updated to 2.3.6 JSON-Java updated to 20220924 Oracle JDK updated to 11.0.17
TSSS-2979	12.0.1	Bundled TIBCO Enterprise Runtime for R engine updated to 6.0.1.
TSSS-2975	12.0.1	 Apache Log4j updated to 2.18.0 Apache Tomcat updated to 9.0.65 Bundled Java environment updated to 11.0.16. H2 database updated to 2.1.214 Jetty updated to 9.4.48.v20220622 Mina updated to 2.2.1 MySQL connector updated to 8.0.30 Spring updated to 5.3.22 Spring security updated to 5.7.3
TSSS-2945	12.0.0	 Bundled Java environment updated to 11.0.15. Apache Tomcat updated to 9.0.63 ActiveMQ updated to 5.17.1 H2 database updated to 2.1.212 Jackson Databind updated to 2.13.3 Spring Framework updated to 5.3.20 Spring Security updated to 5.6.5

Migration and Compatibility

Spotfire Statistics Services version 12.0 has the following migration and compatibility issues.



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

This release of Spotfire Statistics Services is tested with version 12.0 of TIBCO Spotfire® Server.

Included TERR engine

Version 12.0.7 of Spotfire Statistics Services includes Spotfire[®] Enterprise Runtime for R (TERR) (Formerly TIBCO[®] Enterprise Runtime for R (TERR)) version 6.1.2. Version 6.1.2 is tested for compatibility with open-source R version 4.0.2. If you built packages with a previous version of R or TERR, you must rebuild those packages to use them with this version.

Included H2 database

Version 12.0.5 and later of Spotfire Statistics Services includes version 2.2.222 of the H2 database. The H2 database version 2.2.222 is incompatible with the previous version bundled with Spotfire Statistics Services 12.0.4 and earlier. If you use an external (clustered) database with H2, then the previous file pointed out with the parameter database.url must be removed before starting the new Spotfire Statistics Services version. The removed database file will automatically be recreated.

Alternatively, per the official H2 documentation, you can run BACKUP on your existing database using your current version of H2, and then create a fresh database using the new version of H2. After that, you can perform a SCRIPT to load your data.

Closed Issues

Version 12.0 of Spotfire Statistics Services contains the following closed issues.

Key	Version	Summary
TSSS-3043	12.0.7	The generation of response files from the installer for use in later silent installs does not capture all user input correctly. As a result, the service name directory and registered Windows service are not correctly populated.
TSSS-2999	12.0.3	For Windows installations, the installer leaves the property service.url blank in the spserver. properties configuration file.
TSSS-2991	12.0.2	The Spotfire Statistics Services installer fails to start when it is run on Windows Server 2022.
TSSS-2952	12.0.0	The instructions for creating a script to run a silent installation are unclear.

Known Issues

Version 12.0 of Spotfire Statistics Services contains the following known issues.

Key	Version	Summary
TSSS-1673	12.0.0	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.
TSSS-1675	12.0.0	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 a 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.

Key	Version	Summary
TSSS-2055	12.0.0	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 are much faster.
TSSS-2064	12.0.0	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.
TSSS-2079	12.0.0	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 the version of MATLAB that is supported for use with this version of Spotfire Statistics Services allows creating and manipulating 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. See the system requirements for more information.
TSSS-2168	12.0.0	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
TSSS-2617	12.0.0	Tomcat change affects load balancer defaults
		Spotfire Statistics Services 10.10 and later includes Tomcat 9. Tomcat 9 includes changes in behavior from previous versions of Tomcat for using the Apache JServe Protocol (AJP) for load balancing. During installation, when you specify using a load balancer and AJP, the secretRequired flag is set to true by default. Initially, you must override this behavior: In your load balancer configuration settings (in SPSERVER_HOME/tomcat/conf/server.xml), set secretRequired=false.
TSSS-364	12.0.0	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 : 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.
TSSS-902	12.0.0	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.

Spotfire Documentation and Support Services

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

How to Access Spotfire Documentation

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

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

Spotfire Documentation

The documentation for all Spotfire products is available on the Spotfire Documentation page. This page takes you directly to the latest version of each document.

To see documents for a specific Spotfire product or version, click the link of the product under 'Other versions', and on the product page, choose your version from the top right selector.

Release Version Support

Some release versions of Spotfire products are designated as long-term support (LTS) versions. LTS versions are typically supported for up to 36 months from release. Defect corrections will typically be delivered in a new release version and as hotfixes or service packs to one or more LTS versions. See also https://spotfi.re/lts.

How to Contact Support for Spotfire Products

You can contact the Support team in the following ways:

- For accessing the Support Knowledge Base and getting personalized content about products you are interested in, visit the support portal at https://spotfi.re/support.
- For creating a Support case, you must have a valid maintenance or support contract with Cloud Software Group, Inc.. You also need a user name and password to log in to https://spotfi.re/support.
 If you do not have a user name, you can request one by clicking Register on the website.

System Requirements for Spotfire Products

For information about the system requirements for Spotfire products, visit http://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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