



# **TIBCO Spotfire® Server Release Notes**

*Software Release 12.1.0*

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# TIBCO Spotfire Server Release Notes

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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 12.1. 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 have been added in version 12.1 of TIBCO Spotfire® Server.

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

| Key       | Version | Summary  |
|-----------|---------|--|
| TSS-30773 | 12.1.0  | <p><b>Groups page: split view showing group details</b></p> <p>When you select a group from the list in the server web administration page, you can now view the group details (such as <i>Members</i>, <i>Licenses</i>, and so on) by splitting the view between the list of groups and the selected group's details. You can also switch between viewing the group's details in split view mode or full view mode.</p> <p>This new feature makes it easier for administrators to see and edit information about a group while jumping from one group to another in the list.</p> |
| TSS-30774 | 12.1.0  | <p><b>Users page: split view showing user details</b></p> <p>When you select a user name from the list in the server web administration page, you can now view the user details (such as <i>Profile</i>, <i>Licenses</i>, and so on) by splitting the view between the list of user names and the user's details. You can also switch between viewing the user's details in split view mode or full view mode.</p> <p>This new feature makes it easier for administrators to see and edit information about a user while jumping from one user name to another in the list.</p>    |
| TSS-8666  | 12.1.0  | <p><b>Information about number of rows processed in Information Services log file</b></p> <p>In the log file for Information Services (<code>sql.log</code>), you can now see how many rows of data were processed after you use an information link to access data.</p>   |
| TS-70133  | 12.1.0  | <p><b>New file for specifying service configurations on Linux</b></p> <p>When running the Automation Services and Web Player services on Linux, the new <code>Spotfire.Dxp.Worker.Host.env</code> service configuration file can now be used to, for example, set specific environment variables for a service.</p>  |
| TSS-31261 | 12.1.0  | <p><b>Improved robustness by creating new data source connections on separate threads</b></p> <p>To work around issues with certain drivers that can become unresponsive, you can now create a data source connection on a separate thread.</p> <p>To enable the feature, add a connection property with the name <code>spotfire.pooling.data.source.connection-creation-on-separate-thread</code>, with the value set to <code>true</code>.</p>   |
| TSS-31586 | 12.1.0  | <p><b>Support for cobranding packages in zip format</b></p> <p>Cobranding packages in zip format are now unpacked on the Spotfire Server, in addition to the previously supported cab format.</p>  |
| TSS-8561  | 12.1.0  | <p><b>Data source included in Information Services log file</b></p> <p>The Information Services log file, <code>sql.log</code>, now includes information about which data sources are used in a query.</p>   |

## Changes in Functionality

The following are important changes in functionality in version 12.1 of Spotfire Server.

| Key       | Version | Summary   |
|-----------|---------|---|
| SPOT-1526 | 12.1.0  | <p><b>Information Services runs in its own subprocess on the TIBCO Spotfire Server</b></p> <p>Information Services, used for accessing data with JDBC, now runs in its own subprocess on the same computer as the TIBCO Spotfire Server. The purpose of this change is, among other things, to improve the stability of the Spotfire environment and to facilitate troubleshooting. For the end user, Information Services works the same way as before, and no action is required before upgrading. However, as an administrator, it is advised to be aware of the following technical changes:</p> <ul style="list-style-type: none"> <li>• The location for the log files has changed to logs/information-services.</li> <li>• The JDBC drivers should be placed in custom-ext-information-services.</li> <li>• A new configuration command config-information-services-process is available.</li> <li>• The JMX monitoring workflow for information services has changed.</li> <li>• The default information services communication port is 9444.</li> </ul> <p>For more information about the changes to Information Services, refer to the corresponding user documentation in the <a href="#">Server - Installation and Administration Manual</a>.</p> |
| TSS-31205 | 12.1.0  | <p><b>New argument for config-encryption</b></p> <p>The CLI command <code>config-encryption</code> has the new argument <code>--username</code>, which accepts the user name of the library administrator.</p>  |
| TSS-31645 | 12.1.0  | <p><b>Change to packaging of the included TIBCO ODBC drivers</b></p> <p>The TIBCO ODBC drivers for Apache Spark, Apache Cassandra, and MongoDB are now delivered as third-party components to Spotfire Server, instead of as part of the TIBCO Drivers package. You can download the drivers on the Spotfire Server page on TIBCO eDelivery, just like before.</p>  |
| TSS-9788  | 12.1.0  | <p><b>Log files now contain the data source name</b></p> <p>The data source name is now written in the log files when a data source connection fails.</p> <p>For example: <code>Could not create a connection to data source (ORACLE2): [tibcosoftwareinc][Oracle JDBC Driver]Error establishing socket.</code></p>   |

# Deprecated and Removed Features

## Deprecated features

The table lists features that are deprecated and will be removed in a future release of Spotfire.

| Key       | Version | Summary   |
|-----------|---------|---|
| TSS-28133 | 12.1.0  | <p>The CLI parameter <code>-t</code> or <code>--tool-password</code> of the <code>s3-download</code> command is deprecated and will be removed in a future version. Using this parameter results in a warning message about the deprecation.</p> <p>Deprecated since Spotfire 11.4.0.</p>   |
| TSS-29565 | 12.1.0  | <p>The <code>getReturnEndpoint()</code> method of the <code>CustomWebAuthenticatorInitContext</code> API class is deprecated and will be removed in a future release. Please use the new method with the same name in the <code>WebAuthenticationContext</code> API class instead.</p> <p>Deprecated since Spotfire 11.6.0.</p>   |
| TSS-30402 | 12.1.0  | <p>In a future release an upgrade will be done to the namespaces defined in the Jakarta EE 9 project.</p> <p>If you have custom code deployed on the Spotfire server, this means that some of your code might need to be altered and rebuilt.</p> <p>Several important third party components are upgraded to use new namespaces defined in the Jakarta EE 9 project. A future release will start using these upgraded components. When using the upgraded components it is important to know that some, but not all, imports of <code>javax.</code> must be changed to <code>jakarta.</code> For example, <code>javax.servlet.http.HttpServletRequest</code> must be changed to <code>jakarta.servlet.http.HttpServletRequest</code>.</p> <p>A list of components that will be changing namespace can be found here: <a href="https://wiki.eclipse.org/Jakarta_EE_Maven_Coordinates">https://wiki.eclipse.org/Jakarta_EE_Maven_Coordinates</a></p> <p>Deprecated since Spotfire 10.10.11, 11.4.6 &amp; 11.8.0.</p>   |
| TSS-31202 | 12.1.0  | <p>The following API methods have been deprecated. They contain references to Java EE 8 and that will not work in a future version of TIBCO Spotfire Server based on the newer Jakarta EE 9 or later:</p> <ul style="list-style-type: none"> <li>Object <code>AuthenticationContext.getAttribute(String name)</code>: The usage of the attribute name <code>javax.servlet.request.X509Certificate</code> is deprecated. The attribute name and the returned class type will both change to <code>jakarta.servlet.request.X509Certificate</code> in Jakarta EE 9 or later.</li> <li>Enumeration&lt;String&gt; <code>getAttributeNames()</code>: The attribute name <code>javax.servlet.request.X509Certificate</code> is deprecated. It will change to <code>jakarta.servlet.request.X509Certificate</code> in Jakarta EE 9 or later.</li> <li>Cookie[] <code>getCookies()</code>: The method is deprecated as the returned class type <code>javax.servlet.http.Cookie</code> will change to <code>jakarta.servlet.http.Cookie</code> in Jakarta EE 9 or later. Use the String <code>getHeader("Cookie")</code> method invocation instead.</li> </ul> <p>Deprecated since Spotfire 12.0.0.</p> |

## Removed features

No features have been removed in this release of TIBCO Spotfire® Server.

## Third Party Software Updates

The following third party software (TPS) components have been added or updated in version 12.1 of Spotfire Server.

| Key       | Version | Summary   |
|-----------|---------|---|
| TSS-31565 | 12.1.0  | TIBCO ODBC Driver for Apache Cassandra is updated to 2.6.11.1013.   |
| TSS-31527 | 12.1.0  | TIBCO ODBC Driver for MonogDB updated to 2.03.22.1024.  |
| TSS-31284 | 12.1.0  | The TIBCO Spotfire Server web user interface now uses Angular 14.   |
| TSS-31466 | 12.1.0  | The following JDBC drivers have been updated: <ul style="list-style-type: none"> <li>• Redshift JDBC driver to 2.1.0.9</li> <li>• Progress DataDirect Oracle driver to 6.0.0.000790</li> <li>• Progress DataDirect SQLserver driver to 6.0.0.000998</li> </ul>  |
| TSS-31371 | 12.1.0  | <ul style="list-style-type: none"> <li>• Amazon AWS SDK updated to 2.17.258</li> <li>• Apache Commons Text updated to 1.10.0</li> <li>• Apache CXF updated to 3.5.3</li> <li>• Apache Log4J updated to 2.18.0</li> <li>• Apache Tomcat updated to 9.0.67</li> <li>• Jetty updated to 9.4.48.v20220622</li> <li>• Metrics Core updated to 4.2.11</li> <li>• Microsoft Azure Blob Storage updated to 12.19.0</li> <li>• Nimbus José JWT updated to 9.23</li> <li>• Oracle JDK updated to 17.0.4</li> <li>• PostgreSQL JDBC driver updated to 42.4.1</li> <li>• Spring Framework updated to 5.3.23</li> <li>• User Agent Parser updated to 1.5.3</li> <li>• Swagger Annotations updated to 1.6.6</li> <li>• SpringFox removed</li> </ul> |
| TSS-31370 | 12.1.0  | <ul style="list-style-type: none"> <li>• Angular JS updated to 14.2.3</li> </ul>  |

## Closed Issues

The table lists important closed issues in version 12.1 of Spotfire Server.

| Key       | Version | Summary  |
|-----------|---------|--|
| TSS-24769 | 12.1.0  | Entering an invalid email address in the Admin UI results in an internal server error, instead of the useful message "The Email address is not valid".   |
| TSS-28833 | 12.1.0  | <ul style="list-style-type: none"> <li>The Service logs documentation does not include entries for <code>OutgoingRequestLog</code> and <code>RequestLog</code>.</li> <li>The node manager logs documentation does not include a listing for <code>startup.log</code>.</li> </ul> |
| TSS-30036 | 12.1.0  | Using an invalid search expression when searching for content in the library results in an error message shown at the bottom of the application. The error should be presented locally underneath the search input field.  |
| TSS-30072 | 12.1.0  | An error is shown when the name for a rule or a scheduled Automation Services job exceeds 200 characters. This can happen if the rule or job is based on an analysis file with a longer name (it can be up to 256 characters).   |
| TSS-30073 | 12.1.0  | Copying a library item does not work if the length of the item's name is close to the maximum length (256 characters).   |
| TSS-30522 | 12.1.0  | After adding or removing a user from groups that affect which licenses the user has, the user's licenses are not updated in the Licenses tab.  |
| TSS-30672 | 12.1.0  | Duplicated background library compression activities are created for a library item.   |
| TSS-31112 | 12.1.0  | Saving a version of a library item does not work if the length of the item's name is close to the maximum length (256 characters).   |
| TSS-31134 | 12.1.0  | The <i>Create folder</i> icon becomes smaller when the breadcrumbs of the library path gets too close to the icon.   |
| TSS-31143 | 12.1.0  | It is not possible to search for External Updates in the <i>Scheduling &amp; Routing, Activity</i> table in the TIBCO Spotfire Server web administration pages.  |
| TSS-31207 | 12.1.0  | When copying or moving library items, a message is shown if the name of the target item is the same as one of the items in the destination location, even if the item type is different from all item types in the destination location.   |
| TSS-31217 | 12.1.0  | For the PostgreSQL database, deleting a library item that has multiple versions does not delete the content for all versions.  |
| TSS-31260 | 12.1.0  | A misbehaving JDBC driver that causes indefinite blockings when trying to create a connection might eventually cause request thread starvation, in rare circumstances.   |
| TSS-31264 | 12.1.0  | The CLI command <code>delete-library-versions</code> does not report the correct size of versions deleted.   |



| Key       | Version | Summary  |
|-----------|---------|--|
| TSS-31286 | 12.1.0  | The description of the <code>--connection-timeout-value</code> for the CLI command <code>set-db-config</code> in the Spotfire Server Installation and Administration Guide is incorrect.   |
| TSS-31287 | 12.1.0  | Several topics describing downloading and configuring external library items in the <i>TIBCO Spotfire® Server Installation and Administration Guide</i> refer to library item GUIDs instead of library item data IDs.  |
| TSS-31288 | 12.1.0  | The help topic for the command <code>register-as-tibco-cloud-client</code> uses the old name to refer to a section in the manual that is renamed.  |
| TSS-31317 | 12.1.0  | The same trusted entities, but with a different trust source ("Trusted by"), are presented as duplicate entries on the My Account page and under User > Trusted signers and items.   |
| TSS-31318 | 12.1.0  | If issues prevent communication between the node manager and a service, the service is sometimes not informed that it should shut down gracefully, and it takes too long to stop the service. Calls to the service should be retried, at least for a short period of time, to reduce the number of such cases. |
| TSS-31330 | 12.1.0  | You can copy a folder into the same folder without seeing either a disabled <b>Copy</b> button or an error message that would prevent the copy operation.  |
| TSS-31342 | 12.1.0  | If a Library search includes an open bracket ( '[' ), the search fails for a SQL Server database.  |
| TSS-31348 | 12.1.0  | The configuration file <code>Spotfire.Dxp.Worker.Host.dll.config</code> , for services installed on Linux, does not have a help topic in the <i>Spotfire Server Installation and Administration Guide</i> .  |
| TSS-31356 | 12.1.0  | A database upgrade can fail if a library item's properties are not going to be versioned.  |
| TSS-31365 | 12.1.0  | Library searches do not use function-based indexes in case-sensitive databases such as Oracle and PostgreSQL.  |
| TSS-31380 | 12.1.0  | Opening or accessing an imported column causes Spotfire Analyst to fail unexpectedly.  |
| TSS-31383 | 12.1.0  | From the Monitoring & Diagnostics page, when you select a node, and from the Nodes & Services > Network page, when you select a node, service, or server, the link to the deployment area is broken.   |
| TSS-31407 | 12.1.0  | During a library export/import process, some metadata for the library item is not imported correctly, which results in a content mismatch warning in Spotfire Analyst.   |
| TSS-31408 | 12.1.0  | On the <i>Monitoring &amp; Diagnostics, Routing: Analyses</i> page, if multiple analyses have the same path, then only the first occurrence of an analysis is duplicated, and the other analyses with the same path are ignored.   |
| TSS-31414 | 12.1.0  | In the library, the context menu option <b>Copy link</b> is missing for analysis files and Information Link files.   |
| TSS-31428 | 12.1.0  | Fixed users and external users cannot be enabled or disabled in the Users app.   |

| Key       | Version | Summary  |
|-----------|---------|--|
| TSS-31447 | 12.1.0  | In the side navigation menu, the Help text button does not direct the user to the Help section related to the user's app location in the Spotfire Server user interface.   |
| TSS-31448 | 12.1.0  | The <i>Go to groups</i> context menu option in the <b>Included in group</b> tab of a group does not work.  |
| TSS-31449 | 12.1.0  | There is no context menu option available that can take you to the <i>Included in groups</i> tab for the selected group (for example, <i>Edit parent groups</i> ), when right-clicking a group in the Groups page.   |
| TSS-31450 | 12.1.0  | The sentence about differences in calculation results between Windows and Linux in the <i>TIBCO Spotfire® Server and Environment - Installation and Administration</i> guide is incorrect.   |
| TSS-31456 | 12.1.0  | Running a configuration script can fail if the script contains many database calls.  |
| TSS-31486 | 12.1.0  | If there are no notifications available, an error is shown when you go to a <i>Notifications</i> page in the Spotfire Server web administration pages and try to sort the table by clicking a column header.   |
| TSS-31487 | 12.1.0  | In search, when a search query string is long enough to reach the Clear text icon, the icon shrinks in size.   |
| TSS-31524 | 12.1.0  | Import of an exported library folder sometimes fails due to incorrect handling of declared dependencies.   |
| TSS-31526 | 12.1.0  | Members of the <i>Scheduling and Routing Administrator</i> group, who are not also members of the <i>Administrator</i> group, cannot create user rules, create group rules, or view the <i>Scheduled updates activity</i> page in the Spotfire Server web administration pages.  |
| TSS-31541 | 12.1.0  | Upgrade of the Spotfire database fails if there are broken items (items without any content) in the library.   |
| TSS-31542 | 12.1.0  | Some performance counters sometimes show '0' instead of the correct value for a Web Player service running on Linux.   |
| TSS-31564 | 12.1.0  | The example script for configuring a Spotfire Server using a script does not include using PostgreSQL.   |
| TSS-31622 | 12.1.0  | When you work with on-demand data from information links, and you use more than one parameter, <code>Timestamp</code> and <code>Time</code> columns with milliseconds precision sometimes cause errors.  |
| TSS-31624 | 12.1.0  | There is no documentation about how to handle a Spotfire Server using RC4_HMAC after the 3DES and RC4_HMAC encryption algorithms were deprecated in Java and became disabled by default for Kerberos (cf. <a href="https://www.oracle.com/java/technologies/javase/17-relnote-issues.html">https://www.oracle.com/java/technologies/javase/17-relnote-issues.html</a> ).<br><br>To enable RC4_HMAC, you must perform some manual steps. See <a href="#">Standards and Algorithms</a> in the <i>TIBCO Spotfire® Server and Environment Security</i> guide for more information. |

# Known Issues

The following are known issues in version 12.1 of Spotfire Server:

| Key       | Version | Summary   |
|-----------|---------|---|
| TSAS-1123 | 12.1.0  | You cannot encrypt configuration files for Automation Services and Web Player Services on Linux.  |
| TSDK-597  | 12.1.0  | <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><b>Workaround:</b> Deploy the extension package by using the Deployments &amp; Packages area of Spotfire Server.</p>   |
| TSS-21408 | 12.1.0  | <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><b>Workaround:</b> If this error occurs, try setting the <code>OPEN_CURSORS</code> property in Oracle to at least 500, and then restart the server.</p>          |
| TSS-23602 | 12.1.0  | <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 remains in the <code>IN_PROGRESS</code> state in the Activity view even after the servers are back online.</p> <p><b>Workaround:</b> Right-click the activity, and then click <b>Clear selected activity</b> to clear the job activity from the Activity view.</p> |
| TSS-26972 | 12.1.0  | <p>Updating the node manager from Nodes &amp; Services from a 10.9 or earlier release to a 10.10 release or later is not supported due to updated Java versions.</p> <p><b>Workaround:</b> To update the node manager to version 10.10 or later, you must install it on each computer, and then run the node manager upgrade tool.</p>  |

| Key       | Version | Summary   |
|-----------|---------|---|
| TSS-29819 | 12.1.0  | <p>In the following situations, Spotfire users cannot view certain analysis files in the web client:</p> <ul style="list-style-type: none"> <li>The user is authenticated using Kerberos with delegation.</li> <li>The user wants to view an analysis that accesses a TERR service node.</li> </ul> <p><b>Workaround:</b> 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"> <li>On the computer running the Web Player node manager, open a command window as an administrator.</li> <li>Enter <code>mmc</code>.</li> <li>In the Console dialog box that opens, click <b>File &gt; Add/Remove &gt; Snap-ins</b>.</li> <li>In the Add or Remove Snap-ins dialog box, select <b>Certificates</b>, and then click <b>Add</b>.</li> <li>In the Certificates snap-in dialog box, select <b>Computer account</b>, and then click <b>Next</b>.</li> <li>In the Select Computer dialog box, click <b>Finish</b>.</li> <li>In the Add or Remove Snap-ins dialog box, click <b>OK</b>.</li> <li>In the Console Root window, click <b>Certificates (Local Computer)</b> to view the certificate stores for the computer.</li> <li>Go to <code>Certificates (Local Computer) \ Personal \ Certificates</code>, and then right-click the certificate that was issued by "TIBCO Spotfire Signing CA".</li> <li>Select <b>All Tasks &gt; Manage Private Keys</b>.</li> <li>In the Permissions dialog box, under <b>Group or user names</b>, select a group that contains all Spotfire users that need to run analyses using the TERR service.</li> <li>Under <b>Permissions for Name</b>, select the Allow check box in the <b>Read</b> row, and then click <b>OK</b>.</li> <li>In the Spotfire administration interface or in the Windows Services dialog box, restart the Web Player node.</li> </ol> |
| TSS-30350 | 12.1.0  | <p>Repair or uninstallation of the Spotfire Server and/or the node manager does not work on computers with a high display resolution, such as 3840 x 2160 pixels. The repair/uninstall dialogs in the installers are not shown as expected and there is no way to proceed with the repair/uninstallation.</p> <p><b>Workaround:</b> Temporarily switch to a lower display resolution, such as 1920 x 1080 pixels.</p>   |
| TSS-30734 | 12.1.0  | <p>When using a proxy server between the Spotfire Server and a Web Player or Automation Services service deployed on Linux, the services will use the operating system proxy configuration. Only the username and password for the proxy can be configured in the configuration files of the services.</p>  |

| Key       | Version | Summary   |
|-----------|---------|---|
| TSS-31285 | 12.1.0  | <p><b>Network-related issues and unexpected attempts to reconnect in contained Spotfire Server and Spotfire Web Player</b></p> <p>When the <code>spotfire-webplayer</code> is under heavy load, or if the load increases suddenly, you can experience <code>spotfire-webplayer</code> pod <code>livenessProbe</code> failures or network-related issues between <code>spotfire-server</code> and <code>spotfire-webplayer</code> pods, and the <code>spotfire-webplayer</code> pod can restart prematurely. Usually, this problem is caused by CPU throttling in Kubernetes / Linux cgroups / Completely Fair Scheduler. When this situation occurs, users can experience reconnection attempts.</p> <p><b>Workaround</b></p> <p>To avoid or minimize CPU throttling, ensure that the <code>spotfire-webplayer</code> and <code>spotfire-server</code> do not specify a value for <code>resources.limits.cpu</code>, and increase the <code>spotfire-webplayer</code> <code>livenessProbe</code> failure window by increasing the values for <code>periodSeconds</code> and/or <code>failureThreshold</code>.</p> <p>Depending on the scenarios you observe, you can decrease <code>spotfire-webplayer</code> CPU strained levels (see <code>WebPlayer_AverageCpuLoadStrainedLimit</code> in <code>Spotfire.Dxp.Worker.Host.dll.config</code>) and <code>cpuAverageTimeSpan</code> in <code>Spotfire.Dxp.Worker.Web.config</code> so that the load is distributed earlier among the running <code>spotfire-webplayer</code> pods, or so that analyses are put in scheduled updates.</p> <p>In addition, increasing <code>System.Threading.ThreadPool.MinThreads</code> in <code>Spotfire.Dxp.Worker.Host.runtimeconfig.json</code> to a larger value, (for example, 100 or 200, depending on the load) helps in some scenarios.</p> <p><b>Example</b></p> <p><b>Spotfire.Dxp.Worker.Host.runtimeconfig.json</b></p> <pre> {   "runtimeOptions": {     "tfm": "net6.0",     "frameworks": [       {         "name": "Microsoft.NETCore.App",         "version": "6.0.0"       },       {         "name": "Microsoft.AspNetCore.App",         "version": "6.0.0"       }     ]   },   "configProperties": {     "System.Drawing.EnableUnixSupport": true,     "System.GC.Server": true,     "System.Reflection.Metadata.MetadataUpdater.IsSupported": false,     "System.Runtime.Serialization.EnableUnsafeBinaryFormatterSerialization": true,     "System.Threading.ThreadPool.MinThreads": 100   } } </pre> <p>For the CDK, see the README files for information about exporting the current file, and then apply it after modification using a command like the following.</p> <pre> helm upgrade ... --set-file=config.'Spotfire\Dxp\Worker\Host\ runtimeconfig.json'=Spotfire.Dxp.Worker.Host.runtimeconfig.json </pre> |

# Migration and Compatibility

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The documentation 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

Version 12.1 of Spotfire Automation Services should be installed for compatibility with version 12.1 of TIBCO Spotfire.

For instructions on how to upgrade to version 12.1 Spotfire Automation Services, see "Updating Services" in the *Spotfire Server and Environment - Installation and Administration* help.

## Spotfire Qualification

Version 12.1 of Spotfire Qualification should be installed for compatibility with version 12.1 of TIBCO Spotfire.

For instructions on how to upgrade to version 12.1 of Spotfire Qualification, see the [Spotfire Qualification - Installation Guide](#).

# TIBCO Documentation and Support Services

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

## How to Access TIBCO Documentation

Documentation for TIBCO 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.

## TIBCO Spotfire Documentation

The documentation for all Spotfire products is available on the [TIBCO 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 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](https://docs.tibco.com/pub/spotfire/general/LTS/spotfire_LTS_releases.htm).

## How to Contact TIBCO Support

Get an overview of [TIBCO Support](#). You can contact TIBCO Support in the following ways:

- 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>.

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