

# **Spotfire Service for Python Release Notes**

*Software Release 1.21.2*

# Contents

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<b>Release Notes.....</b>	<b>3</b>
New Features.....	3
Changes in Functionality.....	3
Deprecated and Removed Features.....	3
Migration and Compatibility.....	3
Third Party Software Updates.....	4
Closed Issues.....	5
Known Issues.....	5
 <b>Spotfire Documentation and Support Services.....</b>	 <b>8</b>
 <b>Legal and Third-Party Notices.....</b>	 <b>9</b>

# Release Notes

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Spotfire analyses that take advantage of Python scripts are available for web client users through the Spotfire® Service for Python version 1.21.

These release notes cover new features, changes, closed issues, and known issues for this release of the Spotfire Service for Python.



The Spotfire Service for Python is licensed under the product Spotfire® Statistics Services. Although you must have the appropriate Spotfire® Statistics Services license, you do not need to install the Spotfire Statistics Services product itself to install and run Spotfire Service for Python in your Spotfire® Server deployment.

## New Features

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There are no new features in version 1.21 of the Spotfire Service for Python.

## Changes in Functionality

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The following are changes in functionality in version 1.21 of the Spotfire Service for Python.

Key	Version	Summary
TERRSRV-1486	1.21.0	<b>LD_LIBRARY_PATH no longer required for shell access</b> It is no longer required to set the LD_LIBRARY_PATH environment variable when running the bundled Python interpreter from a shell.

## Deprecated and Removed Features

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From time to time, features are deprecated or removed from the Spotfire Service for Python. This topic provides more information about deprecated and removed features in version 1.21.

### Deprecated features

No features have been deprecated in this release.


### Removed features

No features have been removed in this release.

## Migration and Compatibility

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The Spotfire Service for Python version 1.21 has been tested with version 14.4 of Spotfire Server.



This version of the Spotfire Service for Python is not tested with earlier versions of Spotfire Server.

See [System Requirements](#) for more information.

## Third Party Software Updates

The following third party software (TPS) components have been added or updated in version 1.21 of the Spotfire Service for Python.

Key	Version	Summary
TERRSRV- 1557	1.21.2	<ul style="list-style-type: none"> <li>• Apache Commons IO updated to 2.18.0</li> <li>• Apache Commons Lang updated to 3.17.0</li> <li>• Apache Log4j updated to 2.24.3</li> <li>• Bouncy Castle Crypto APIs updated to 1.80</li> <li>• ClassGraph updated to 4.8.179</li> <li>• Eclipse Jetty updated to 12.0.16</li> <li>• FasterXML/Jackson Core updated to 2.18.2</li> <li>• OSHI Core updated to 6.6.6</li> <li>• Guava: Google Core Libraries for Java updated to 33.4.0-jre</li> <li>• Java API Client for Docker updated to 3.4.1</li> <li>• Micrometer updated to 1.14.3</li> <li>• Spring Boot updated to 3.3.8</li> <li>• Spring Framework updated to 6.2.2</li> </ul>
TERRSRV- 1526	1.21.1	<ul style="list-style-type: none"> <li>• Apache Commons Compress updated to 1.27.1</li> <li>• Apache Commons IO updated to 2.17.0</li> <li>• Apache Log4j updated to 2.24.1</li> <li>• ASM updated to 9.7.1</li> <li>• Eclipse Jetty updated to 12.0.14</li> <li>• FasterXML/Jackson Core updated to 2.18.0</li> <li>• Guava: Google Core Libraries for Java updated to 33.3.1-jre</li> <li>• Java API Client for Docker updated to 3.4.0</li> <li>• Micrometer updated to 1.13.6</li> <li>• OSHI Core updated to 6.6.5</li> <li>• Simple Logging Facade for Java updated to 2.0.16</li> <li>• Spring Boot updated to 3.3.5</li> <li>• Spring Framework updated 6.1.14</li> </ul> <p><b>Python packages:</b></p> <ul style="list-style-type: none"> <li>• setuptools updated to 75.0.0</li> </ul>

Key	Version	Summary
TERRSRV-1493	1.21.0	<ul style="list-style-type: none"> <li>• Apache Commons IO updated to 2.16.1</li> <li>• ASM updated to 9.7</li> <li>• Bouncy Castle Crypto APIs updated to 1.78.1</li> <li>• Eclipse Jetty ee10 updated to 12.0.8</li> <li>• Jakarta Annotations API updated to 3.0.0</li> <li>• Micrometer updated to 1.12.5</li> <li>• OSHI Core updated to 6.6.0</li> <li>• Simple Logging Facade for Java updated to 2.0.13</li> <li>• Spring Boot updated to 3.2.5</li> <li>• Spring Framework updated to 6.1.6</li> </ul> <p>The bundled Python interpreter is updated to 3.11.9.</p> <p><b>Python packages:</b></p> <ul style="list-style-type: none"> <li>• pandas updated to 2.2.2</li> <li>• setuptools updated to 69.5.1</li> </ul>

## Closed Issues

The table lists closed issues in version 1.21 of the Spotfire Service for Python.

Key	Version	Summary
TERRSRV-1579	1.21.2	The service does not stop completely when you try to roll back a node manager update, which can lead to a failed rollback and an offline node manager.
TERRSRV-1252	1.21.1	<p>When migrating from the TIBCO Software Statistic Services (TSSS) server to instead use the data function services, warnings for packages are shown when executing some data functions.</p> <p>This has now been addressed by adding a <code>disable.warning.alert</code> property for the TERR, R, and Python services, to allow disabling of warnings. The default is <code>false</code>. To disable warnings, this property must be set to <code>true</code>.</p>

## Known Issues

The following are known issues in version 1.21 of the Spotfire Service for Python.

Key	Version	Summary
PYSRV-80	1.21.0	<p><b>Plot created with pyplot persists between data functions</b></p> <p>A plot created in a data function using the function <code>pyplot</code> from <code>matplotlib</code> can persist between data functions unless the plot is explicitly cleared.</p> <p><b>Workaround:</b> If the buffer retains the plot, you can clear it explicitly by including the command <code>plt.clf()</code> in your data function.</p>

Key	Version	Summary
TERRSRV- 1393	1.21.0	<p><b>Change in assembly method in pip package manager results in warnings</b></p> <p>A change to the method used to correctly assemble SPK packages might result in additional warnings from the pip package manager of the form:</p> <p>WARNING: Target directory &lt;&lt;temporary location&gt;&gt;\&lt;&lt;package&gt;&gt; already exists. Specify --upgrade to force replacement.</p> <p>(The text of the warning can vary depending on the contents of the third-party wheel packages, and can vary based on the operating system.)</p> <p>This warning is not an issue and can be ignored.</p>
TERRSRV- 1446	1.21.0	<p><b>Breaking change in some Linux OS versions for other supported versions of Python interpreters</b></p> <p>Debian 11, Ubuntu 22.04, RHEL 9, and some SUSE 15 installations (such as OpenSUSE 15) include version 7 of the package libffi, which is different from the version provided in all other supported distributions. Because it is not possible to link to multiple versions of libffi, this version of Spotfire Service for Python links only to libffi.so.6.</p> <p><b>Workaround:</b></p> <p>Use either the version of Python installed with your operating system, or a version of Python that meets the requirements that you have installed. Set the following properties in the file <code>custom.properties</code>. (By default, these settings are commented out.)</p> <p><b>use.system.python: set to true</b></p> <ul style="list-style-type: none"> <li>This setting specifies whether to use the system-supplied or your own installation of Python, instead of the one included with this installation. For Linux, this setting is applicable if <code>use.engine.containers</code> is set to <code>false</code>. (If a containerized engine is enabled, then using the system-installed Python is not applicable.)</li> </ul> <p><b>python.home</b></p> <ul style="list-style-type: none"> <li>The path to Python home, to the level of the bin directory. <ul style="list-style-type: none"> <li>For Linux, this setting searches <code>&lt;python.home&gt;/bin/python3</code>. For Linux, python3 must point to correct Python version.</li> <li>For Windows, this setting searches <code>&lt;python.home&gt;/bin/python.exe</code>. (You can define the environment variable <code>SPOTFIRE_PYTHON_HOME</code> instead of this property.)</li> </ul> </li> </ul> <p><b>Prerequisites</b></p> <ul style="list-style-type: none"> <li>Expected Python version 3.7.x or higher installed with the system or user-installed.</li> <li>You must install the spotfire package (from PYPI). This package is required for Spotfire Service for Python to work with Spotfire.</li> <li>For Linux, <code>python3</code> points to correct version of Python.</li> </ul>
TERRSRV- 1456	1.21.0	<p><b>Running on RHEL 9 with OpenSSL requires downloading the package compat-openssl11</b></p> <p>For administrators installing this version of Spotfire Service for Python on a computer running Red Hat Enterprise Linux 9, you must manually install OpenSSL libraries. The package <code>compat-openssl11</code> provides both needed libraries, and it is available from the RHEL 9 repository.</p>

Key	Version	Summary
TERRSRV- 538	1.21.0	<p><b>"Unable to write data" error message</b></p> <p>Error message "Unable to write data to the transport connection: An established connection was aborted by the software in your host machine."</p> <p>If you see this error, then the data being uploaded to the service is too large. When a Spotfire data function is run, it sends the relevant data from Spotfire to the service for processing. The service has a file size upload limit, the default of which is 100 MB. When a data function is run with data that exceeds this limit, the service returns the error.</p> <p><b>Workaround:</b> An administrator can change this upload limit if needed by creating a custom configuration. For more information, see the topic "File size upload limit" in the service <i>Installation and Administration</i> guide.</p> <p>If users see this error message, the administrator can consider creating a custom configuration that increases the limits for both of the following properties:</p> <ul style="list-style-type: none"> <li>• <code>spring.servlet.multipart.max-file-size</code>: The total file size for upload cannot exceed the value for this setting.</li> <li>• <code>spring.servlet.multipart.max-request-size</code>: The total request size for a multipart file upload cannot exceed the value for this setting.</li> </ul> <p><b>Note:</b> At a certain point, the Java Heap size fails to handle very large files. The threshold for this behavior is dependent on the amount of RAM the service node has. When the Java Heap Size is exceeded, the following error message is displayed.</p> <pre>Error from Remote Service: Internal Server Error (500) - java. lang.OutOfMemoryError: Java heap space</pre>

# Spotfire Documentation and Support Services

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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 Spotfire and 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.

## 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 <https://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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