



# **TIBCO Spotfire® Service for Python Release Notes**

*Software Release 1.14.0*

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# Release Notes

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Visualizations that are created in TIBCO Spotfire® Analyst that take advantage of Python scripts are available for users on TIBCO Spotfire® Web Player through TIBCO Spotfire® Service for Python version 1.14.0.

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



Spotfire Service for Python is licensed under the product TIBCO 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 TIBCO Spotfire Server deployment.

## New Features

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The Spotfire Service for Python version 1.14.0 has no new features.

## Changes in Functionality

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The Spotfire Service for Python version 1.14.0 has no changes in functionality.

## Deprecated and Removed Features

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### Deprecated features

The Spotfire Service for Python version 1.14.0 has no deprecated features.

### Removed features

The Spotfire Service for Python version 1.14.0 has removed no features.

## Migration and Compatibility

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TIBCO Spotfire® Service for Python version 1.14.0 contains the following migration or compatibility issues.

The Python packages included with this version of TIBCO Spotfire® Service for Python have been updated. For more information, see the [Third Party Software Updates](#). For a complete list of Python packages included with this version of TIBCO Spotfire® Service for Python, see *TIBCO Spotfire® Service for Python Installation and Administration*.

Version 1.14.0 of TIBCO Spotfire® Service for Python has been tested with version 12 of TIBCO Spotfire® Server. This version of TIBCO Spotfire® Service for Python is not tested with earlier versions of Spotfire Server. See [System Requirements](#) for more information.

## Third Party Software Updates

The Spotfire Service for Python version 1.14.0 has the following new or updated third party software (TPS) components.

Key	Description
PYSRV-494	<p>Updated the following versions of Python packages:</p> <ul style="list-style-type: none"> <li>• bitstring 3.1.9</li> <li>• NumPy 1.23.4</li> <li>• Pandas 1.5.1</li> <li>• pip 22.3.1</li> <li>• python-dateutil 2.8.2</li> <li>• PyTZ 2022.6</li> <li>• setuptools 65.5.1</li> <li>• six 1.16.0</li> <li>• wheel 0.38.4</li> </ul>
PYSRV-488	<ul style="list-style-type: none"> <li>• ASM upgraded to 9.4</li> <li>• IO Micrometer upgraded to 1.10.2</li> <li>• Jackson Core updated to 2.14.1</li> <li>• Simple Logging Facade for Java updated to 2.0.4</li> <li>• Spring Boot updated to 2.7.6</li> <li>• The Python package 'spotfire' updated to 1.9.0.</li> </ul>

## Closed Issues

The Spotfire Service for Python version 1.14.0 has the following closed issues.

Key	Summary
TERRSRV-1014	An interrupted engine is not destroyed ( <code>java.exe</code> continues to run), consuming resources.

## Known Issues

The Spotfire Service for Python version 1.14.0 has the following known issues.

Key	Summary
PYSRV-227	<p><b>Empty String columns in exported SBDF causes an error</b></p> <p>If you export an SBDF from Python (for example, as outputs for a data function), and your output contains an empty column, then you can encounter the following error:</p> <pre>spotfire.sbfd.SBDFError: cannot determine type for column 'EmptyString'; all values are missing</pre> <p>This error occurs because the Spotfire data function environment cannot determine the proper Spotfire type to export the data as if all values in the column are missing (in other words, Python's <code>None</code>, NumPy's <code>nan</code>, or Panda's <code>NA</code> or <code>NaT</code> values). To resolve this issue, edit your data function to use the helper function <code>set_spotfire_types</code>.</p> <p><b>Example</b></p> <pre>import pandas as pd import spotfire  df = pd.DataFrame(inp) spotfire.set_spotfire_types(df, {'EmptyString': 'String'})</pre>
PYSRV-280	<p><b>Windows computers do not support non-ASCII characters in the TEMP directory path</b></p> <p>When you build an SPK of Python packages for distribution to Analyst clients on a Windows computer where the <code>TEMP</code> directory's path contains any non-ASCII characters, then the SPK build fails with the error <code>ValueError: FCI error 1</code>. This error is due to a defect in the Python interpreter.</p> <p><b>Workaround:</b> Before building the SPK, set the value of the <code>TEMP</code> environment variable to a path containing only ASCII characters (for example, <code>SET TEMP=C:\temp</code>).</p>
PYSRV-499	<p><b>Breaking change in some Linux OS versions for other supported versions of Python interpreters</b></p> <p>Debian 11, Ubuntu 22.04, and some SUSE 15 installations (such as OpenSUSE 15) include version 7 of the package <code>libffi</code>, which is different from the version provided in all other supported distributions. Because it is not possible to link to multiple versions of <code>libffi</code>, this version of Spotfire Service for Python links only to <code>libffi.so.6</code>.</p> <p><b>Workaround:</b></p> <p>For Debian and Ubuntu:</p> <ol style="list-style-type: none"> <li>1. Browse to the download site for <code>libffi 6</code> and download the package. Debian 11: <a href="https://packages.debian.org/buster/amd64/libffi6/download">https://packages.debian.org/buster/amd64/libffi6/download</a> Ubuntu 22.04: <a href="https://packages.ubuntu.com/bionic/amd64/libffi6/download">https://packages.ubuntu.com/bionic/amd64/libffi6/download</a></li> <li>2. Install the <code>libffi6</code> package using the package installation mechanism for your OS.</li> </ol> <p>For OpenSUSE 15:</p> <ol style="list-style-type: none"> <li>1. Download <a href="https://gcc.gnu.org/pub/libffi/libffi-3.2.1.tar.gz">https://gcc.gnu.org/pub/libffi/libffi-3.2.1.tar.gz</a> and unpack it. (3.2.1 is the latest version that produces the proper library name).</li> <li>2. Change the directory to <code>libffi-3.2.1</code>.</li> <li>3. Run <code>./configure</code>.</li> <li>4. Run <code>make</code>.</li> <li>5. Run <code>sudo make install</code>.</li> </ol>

Key	Summary
PYSRV-80	<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>
TERRSRV-538	<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> <p>Error from Remote Service: Internal Server Error (500) - <code>java.lang.OutOfMemoryError: Java heap space</code></p>

# 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 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 Documentation

The documentation for all Spotfire products is available on the [TIBCO Spotfire® Documentation](#) page. Links on this page take 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

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>.

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