



Spotfire® Service for Statistica®

Installation and Configuration

Version 14.3.0 | February 2025

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Spotfire® Service for Statistica® Overview

Spotfire® Service for Statistica® (also known as Statistica Service) is a REST API web service that enables users to concurrently access Statistica capabilities in Spotfire environment. It supports execution of Statistica data functions submitted by Spotfire® Analyst or Spotfire® Consumer users.

Statistica data functions are reusable and parameterizable analytic operations that are defined in Spotfire environment. Data functions are implemented by analytic engines such as TERR (as scripts) or Statistica (as workflows). After a data function is defined in Spotfire Analyst, you can apply it as required during an analysis. For example, you can use a data function as a transformation step when you add or replace data tables.

Spotfire can call external analytic engines through data functions. Statistica uses this capability to give Spotfire users a way to drive their dashboards using Statistica workflows (analytic models, business rules, and data transformations).

System Requirements

System requirements for installing Statistica Service are listed as follows:

Software Requirements

Software	Version
Spotfire Server	14.0, 14.4
.NET	4.8

i Note: There are two different versions of Spotfire® Service for Statistica® packaged with the release on eDelivery. Each is labeled with the version(s) of Spotfire Server it is compatible with. Ensure you perform the following installation steps with the appropriate version for your Spotfire Server.

Hardware Requirements

Hardware	Requirement
Processor	<ul style="list-style-type: none">• Minimum: 4 cores (Intel Core i3 or equivalent), 2 GHz, 64-bit• Recommended: 8 cores or more (Intel Xeon E5 or equivalent), 2 GHz or higher, 64-bit <div>Note: The default configuration allocates one engine instance per core. However, two engines per core might be acceptable in some cases. Service throughput for concurrent task processing depends on core and engine counts.</div>
Ram	<ul style="list-style-type: none">• Minimum: 8 GB

Hardware	Requirement
	<ul style="list-style-type: none">• Recommended: 16 GB <div>Note: The minimum amount of RAM is suitable for only basic test systems, or systems with very few simultaneous users. Production servers with large analyses or many simultaneous users require significantly more RAM. Contact Spotfire for further assistance with this.</div>
Hard disk space	<ul style="list-style-type: none">• Minimum: 12 GB• Recommended: 25 GB

Operating Systems

Tested operating system	Version
Microsoft Windows Server	<ul style="list-style-type: none">• 2022• 2019

Statistica Service Packaging

The Statistica Service packaging consists of a Spotfire distribution file `StatisticaService.sdn`. This distribution contains two Spotfire Server packages: `StatisticaService.spk` and `StatisticaServiceEngine.spk`.

Ensure you have selected the packaging compatible with your Spotfire version. Both the folders consist of a Spotfire Distribution File `StatisticaService.sdn`

- **StatisticaService.spk:** It contains implementation of the service itself. It is installed on one or more nodes (servers) managed by Spotfire Server. When requests for the Statistica Service are received by Spotfire Server, they are routed to this service. It handles unpacking the request payload, submitting the job to the Statistica Engine, and packaging and returning the results.
- **StatisticaServiceEngine.spk:** It contains the Statistica Engine. The distribution of core Statistica binaries that are capable of actually executing the workflows.




Note: Alternatively, you can use a different engine by specifying its location in the configuration file.

Installing Statistica Service on a node manager for Spotfire Server

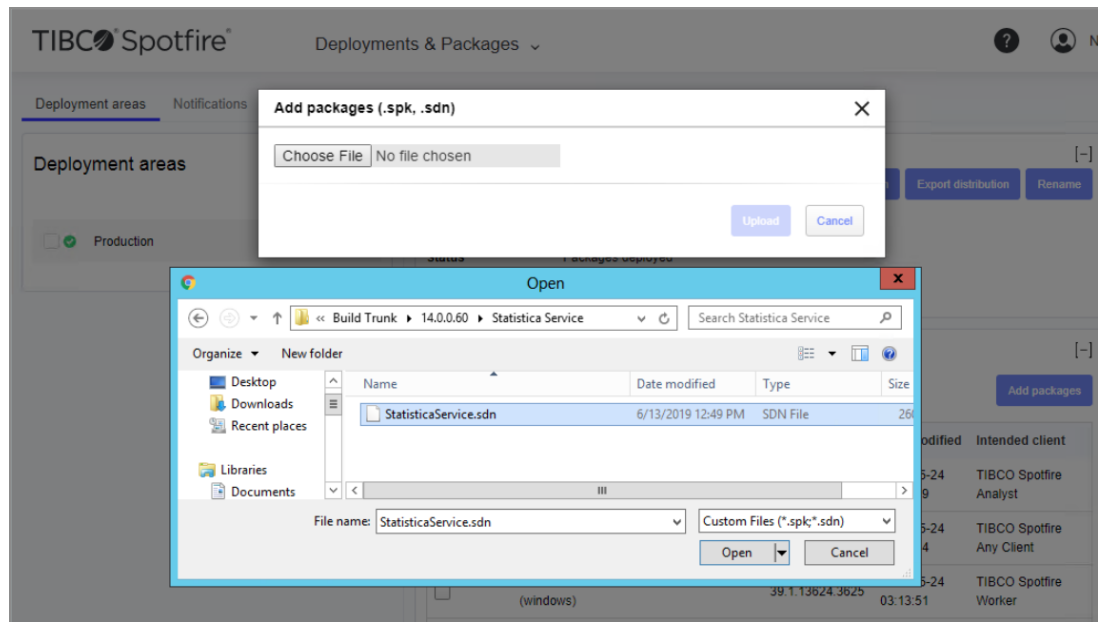
Before you begin

- Ensure that you have already installed Spotfire Server and then the Node Manager. To install Spotfire Node Manager, see "Installing a node manager" in *Spotfire Environment Installation and Administration*.
- Statistica Service can be installed only on Windows OS. For more information, see [System Requirements](#).
- Permissions required: You must be a Statistica Server owner to deploy this service on Spotfire Server.

 **Note:** There are two different versions of Spotfire® Service for Statistica® with the release on eDelivery. Each is labeled with the version(s) of Spotfire Server it is compatible with. Ensure you perform the following installation steps with the appropriate version for your Spotfire Server.

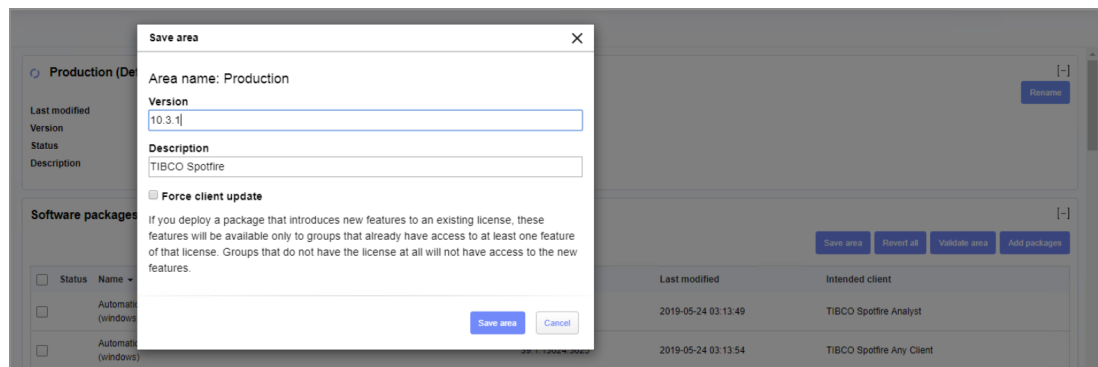
Procedure

1. In a browser, log in to Spotfire Server and, from the drop-down list on the title bar, select **Deployment & Packages**.
2. On the Deployment & packages page, perform the following steps:
 - a. Under **Deployment areas**, ensure that the correct deployment area is selected.
 - b. In the **Software packages** section, click **Add packages**.
 - c. In the Add packages dialog that opens, browse and select the Statistica Service file (.sdn or .spk) and click **Upload**.



The Statistica Service and the Statistica Service Engine packages are displayed in the Software packages section.

d. Click **Save area**.



This stages the packages on Spotfire Server.

Adding Statistica Service to a Spotfire Server Node

To make Statistica capabilities available to the Spotfire users, you must add the Statistica packages to one or more Spotfire Node manager instances as follows:

Before you begin

You must have already deployed Statistica Service on Spotfire Server as described at [Installing Statistica Service on a node manager for Spotfire Server](#).

Procedure

1. In the Spotfire web UI, navigate to **Nodes & Services**.
2. In the left pane, ensure that the node on which you want to add Statistica Service is selected.
3. In the right pane, in the **Installed services** section, click **Install new service**.
4. In the Install new service dialog, choose the Statistica capability, and verify the information in the autopopulated fields, and click **Install and Start**.
5. Click **Install and Start**.

Install new service

Deployment area

Production

Capability

STATISTICA

Configuration

Default

Number of instances

1

Port

9502

Name

STATISTICA

Install

Install and start

Cancel

Statistica Service Configuration

After installation, as part of the service installation, you can see the following configuration files:

- **custom.properties:** It contains service-related settings.
- **statistica.properties:** It contains Statistica Engine specific settings.

These configuration files (stored at a location such as `c:\Spotfire\tsnm\12.0.0\nm\services\Statistica Service-14.1.0.885-28f3098a-a329-479c-a6c8-95b3deb40bd6\conf`) can be edited directly; by using the standard Spotfire Server CLI-based method for configuring services. You can also [pre-define configurations](#) and apply them to the service during installation.

custom.properties

This file contains properties for general service configuration. It has the same settings as the TERR Service. For more information, see the TERR Service documentation. For quick reference, some of them are described here:

Option Name	Description
engine.execution.timeout	The maximum time for an engine to execute a task (in seconds).
engine.session.maxtime	The maximum time for a session to live, in seconds. After a session is allocated to a user, an engine is taken from the pool of available engines and assigned to the session. That instance of the engine is unavailable to other users. If that session is not manually closed by the caller, it times out and is recycled after this interval.
engine.session.max	The maximum number of concurrent active engines. Default is number of cores.

Option Name	Description
engine.queue.size	The number of engines preallocated in the queue. Default is number of cores. These options control how many instances of the Statistica Engine are started and allowed to run. If all are in use, no additional requests from other users can be processed.
loggingLevel	Permitted values are ERROR, WARN, INFO, DEBUG, TRACE, or ALL.
disable.spotfire.trust.checks	<p>By default, Statistica Service checks whether a data function has come from a trusted source. Set to TRUE to not check for the data function trust status of any data function run on Statistica Service service.</p> <p>For more information about script and data function trust, see the <i>Spotfire® Analyst User's Guide</i> and <i>Spotfire® Administration Manager User's Guide</i>.</p>

statistica.properties

This file contains Statistica specific configuration information.

```
# The path to the Statistica engine, stat.exe, or "embedded" to use the
# default engine
# installed with the Statistica Service, or "installed" to use an
# installed version of Statistica
# use forward slashes in paths, e.g., c:/path/morepath
# default is embedded
#statistica.engine.path: embedded
# Logging level (0:Fatal, 1:Error, 2:Warning, 3:Info, 4/5:Debug,
# 6:Verbose)
# Default is 3/Info. If not specified here, will use the log4j2 logging
# level
# from custom.properties (loggingLevel)
#statistica.engine.loglevel: 3
# Set statistica.enterprise to TRUE to use Enterprise. Requires a
# connection
```

```

# to the Enterprise database and an initial Enterprise user to log in as
# during startup/initialization.
# Must either define statistica.enterprise.user and
# statistica.enterprise.password,
# or configure the Spotfire Node Manager Windows Service to run as a
# specific
# user and leave those properties blank/undefined for integrated login
# as the
# Node Manager service identity.
# Also requires statistica.enterprise.server to be defined with a DSN or
# connection
# string for the Statistica Enterprise database (unless Statistica is
# installed
# on the server running the Node Manager, and the default DSN is
# therefore in the registry)
#statistica.enterprise: FALSE
# The Statistica enterprise user and password to do the initial login to
# enterprise
# for initialization. Leave these blank to log in with integrated login
# as the
# service identity of the Spotfire Node Manager Windows Service.
# Integrated login requires configuring the Node Manager service to run
# as
# a Windows user which exists in Enterprise.
# Note that if specifying a Windows integrated user, you must use
# double backslash: domain\\user
#statistica.enterprise.user:
#statistica.enterprise.password:
# The fallback user is a username in Statistica Enterprise and is used
# as
# the Enterprise context in which to run tasks when Enterprise is
# enabled
# and no user name is provided or available in the job request. By
# default
# this is empty/null, and any incoming tasks without an Enterprise
# identity specified would fail.
# Note that if specifying a Windows integrated user, you must use
# double backslash: domain\\user
#statistica.enterprise.fallbackuser: username
# ODBC Connection string for the Statistica Enterprise database.
# If not provided and Statistica is installed on the server, will
# use the default value in the system registry
# Example with a defined DSN:
#statistica.enterprise.server: DSN=SEWSS;UID=dbusername;PWD=dbpassword
# Example with no defined DSN: (If using a named instance with SQL

```

```

Server,
# must escape the \ with \\ (e.g., "dbserver\\instancename")
#statistica.enterprise.server:
# the spotfire domain for local spotfire user accounts;
# user credentials for these types of accounts come in to Statistica
Service
# as, e.g., SPOTFIRE\user; this domain, if provided, will be stripped
# from the username and we will log into enterprise as the 'user'
# thus this form of authentication requires that there is an enterprise
# local user account with this same username as the spotfire user
account
# Defaults to null if not provided, and in that case, no mapping will
# be done between local Spotfire users and local Statistica Enterprise
users
#statistica.enterprise.spotfiredomain: SPOTFIRE
# prohibit these user names from being mapped from spotfire local user
accounts
# to enterprise local user accounts; e.g., SPOTFIRE\admin should not be
# automatically mapped to Enterprise admin user. Defaults to
# admin;system if not provided.
# statistica.enterprise.prohibitedusermappings: admin;system
# Additional startup arguments to pass to the Statistica Engine
# This string should consist of any valid command line options
# for stat.exe with the Listen verb. E.g., "--log-seq http://my-seq-
server.com:1234"
# would configure the Statistica Engine to write its logging information
# to the specified Seq server.
#statistica.engine.config:

```

Creating Named Configurations

You can also modify the configuration by creating a named configuration on the server. This named configuration can be pushed out to all at once and managed centrally.

Before you begin

For more information on command line configuration commands, refer [Service Commands](#).

Procedure

1. Open command prompt. Change directory to spotfire-bin directory, for example, `c:\spotfire\tss\12.0.0\tomcat\spotfire-bin.`

i Note: Spotfire Server must be installed on this Server.

2. Export the default configuration with this command.

```
config export-service-config --capability STATISTICA --deployment-area  
Production
```

This changes the deployment area name; if other than **Production**. Also, it creates a subfolder named **config** with the `custom.properties` and `statistica.properties` files.

3. If you already have a named config to edit, use the following command:

```
config export-service-config --config-name MyConfigName
```

4. Edit the `custom.properties` and the `statistica.properties` files, if required.

5. Import the config to a named configuration with this command:

```
config import-service-config --config-name MyConfigName
```

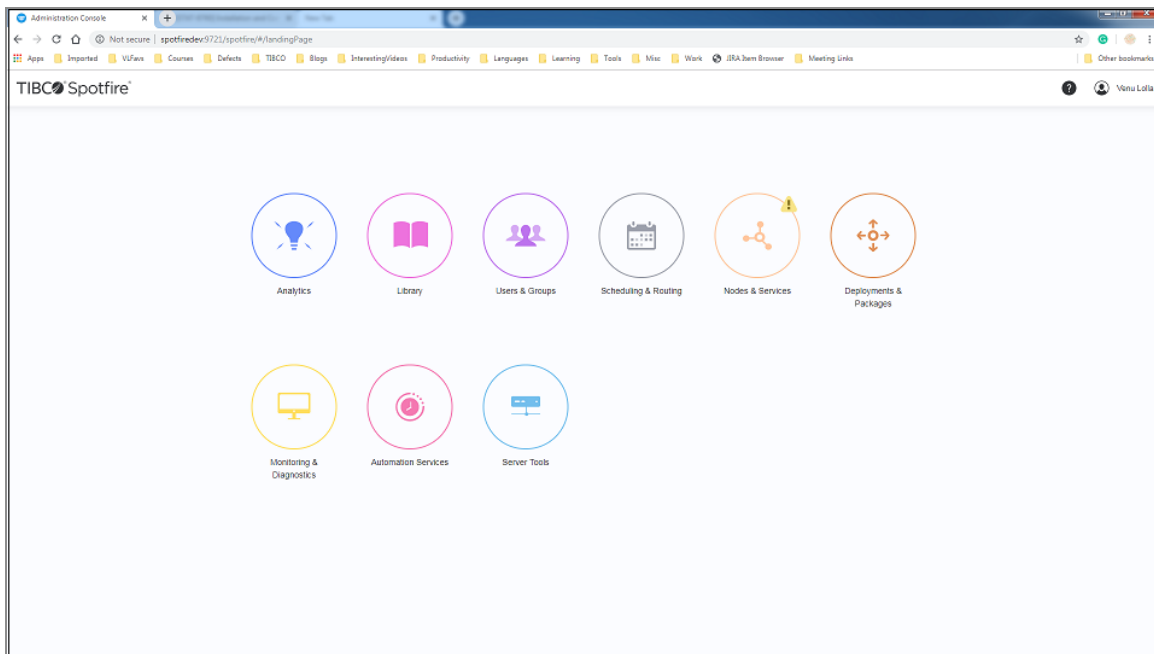
When you click Install New Service, the named configuration is listed in the Web UI in the Configuration list in the Nodes and Services area. You can also change the configuration that is used by an existing instance of the Statistica Service in the Web UI (In Nodes and Services area, by selecting the Statistica Service and click Edit).

Uninstalling Statistica Service

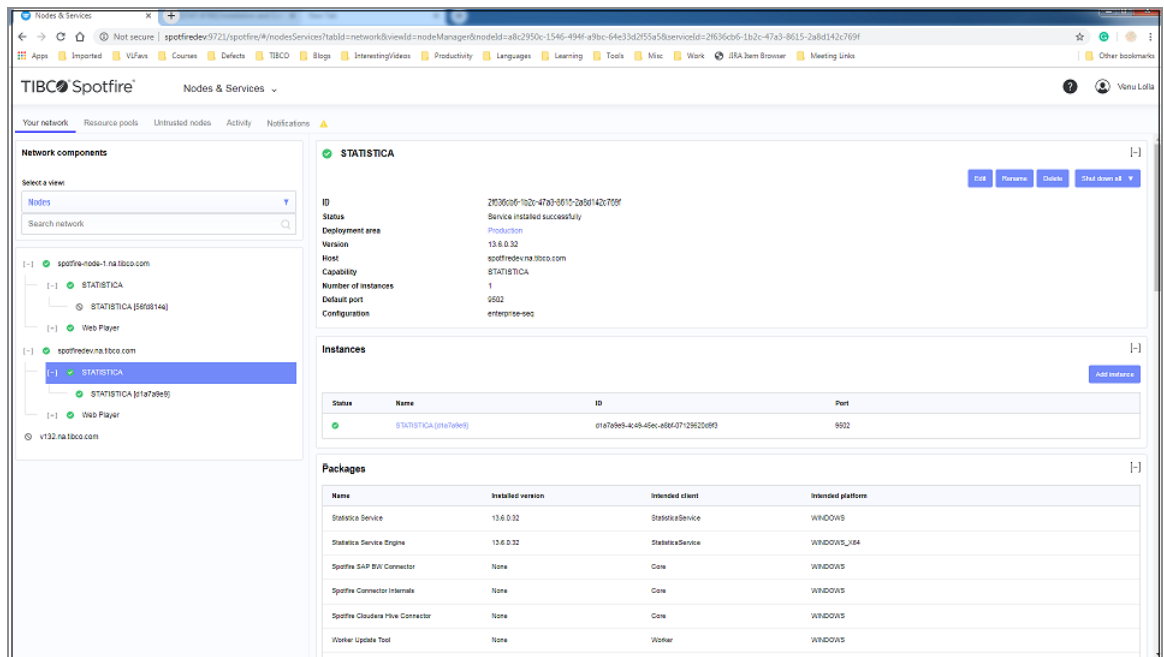
You can uninstall Statistica Service from the Node Manager as follows:

Procedure

1. Log in to Spotfire Server, and click **Nodes & Services**.



2. Select the **Statistica Service** under the required instance of **Node Manager**.



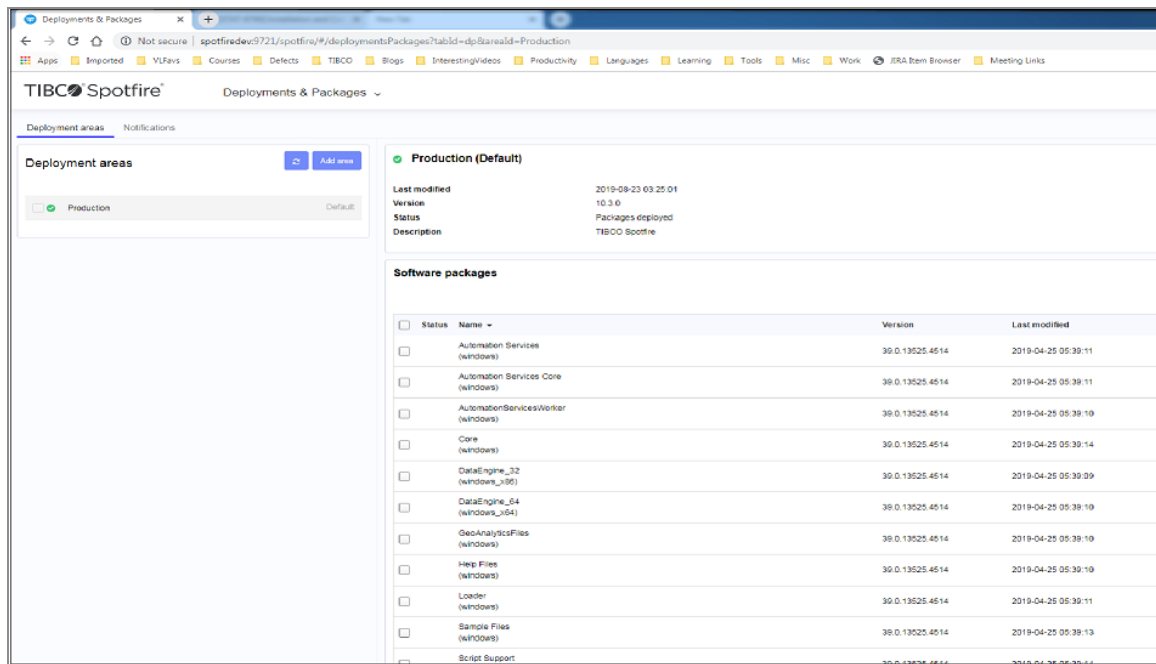
3. Click **Shut Down All**.
4. After the shutdown is completed, click **Delete**.

Removing packages from Server

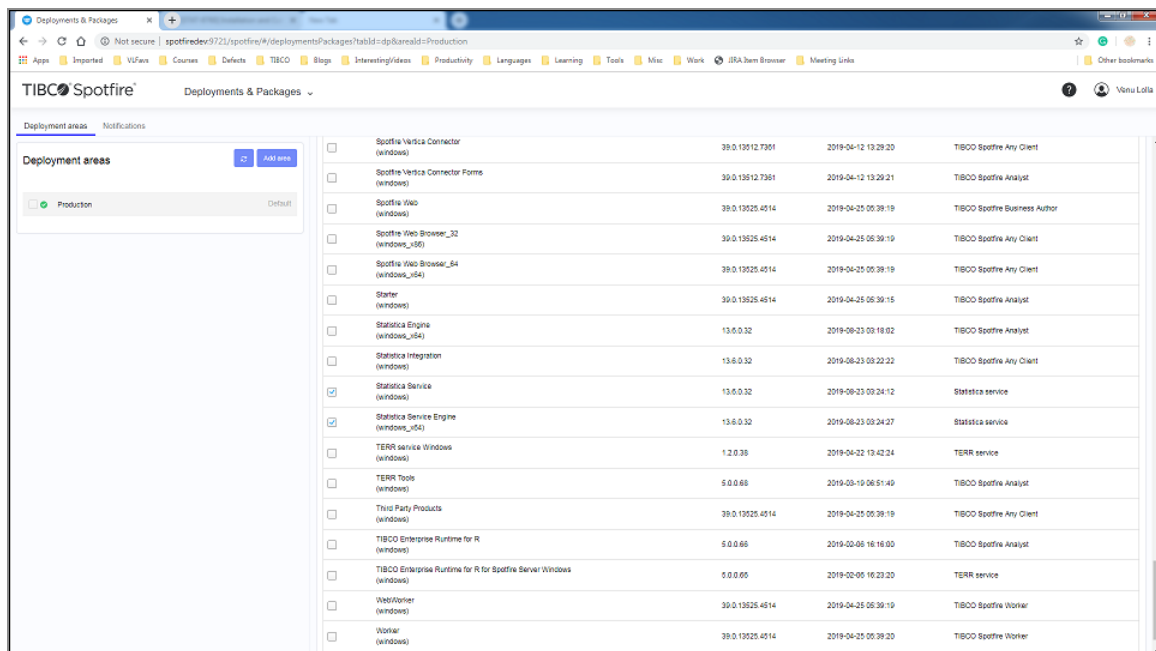
Remove packages from the server so that they are not available for adding to the Node Manager instances. You can remove the packages as follows:

Procedure

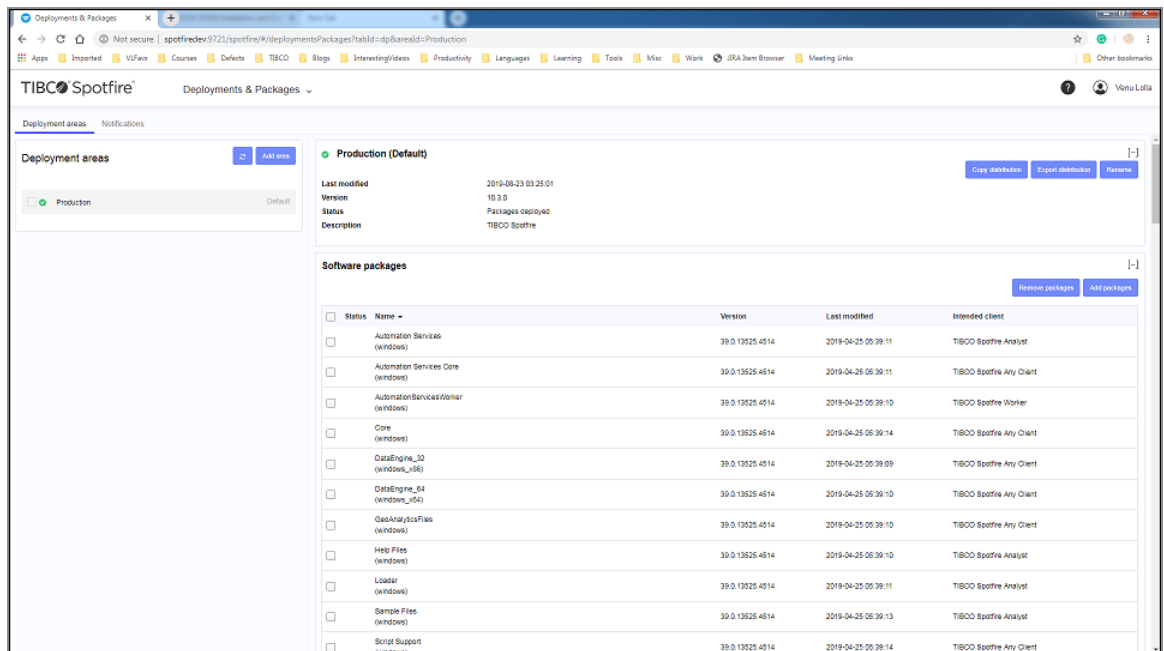
1. Open browser. Login to the Spotfire server.
2. Navigate to the **Deployment and Packages** folder.



3. Locate and check the Statistica Service and Statistica Service Engine packages.



4. At the top of the page, select **Remove packages**.



5. Click **Save Area**.

Upgrading Statistica Service

You can upgrade the Statistica Service as follows:

Procedure

1. [Uninstall Statistica Service](#).
2. [Remove packages from Server](#) of the existing version of the Service.
3. [Install Statistica Service](#) with the new version of the **StatisticaService.sdn**.
4. Upload the .sdn file and then click **Save Area**. Follow the [Adding Statistica Service to Node Manager](#) instructions for each node as desired.

Enabling R Integration for Statistica Service

Before you begin

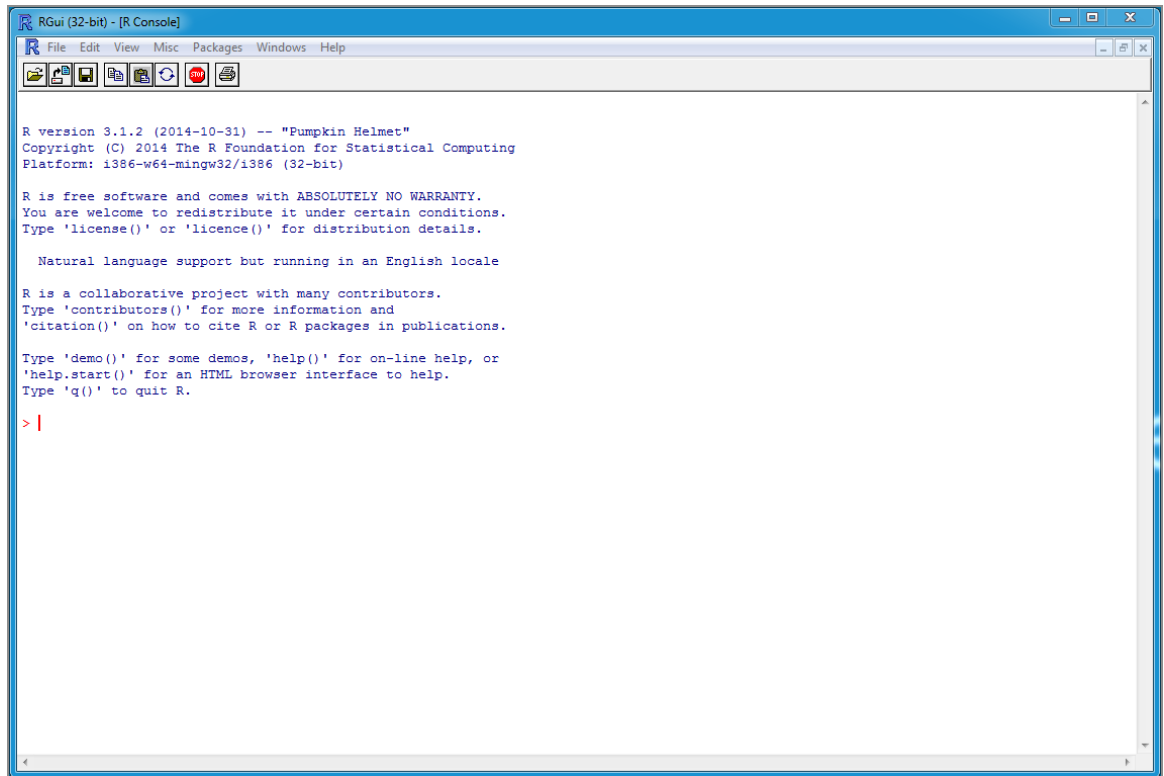
Complete the following steps for every Spotfire node that has Statistica Service capability installed and configured. Run this procedure for each node. You must have administrative privileges to perform this task.



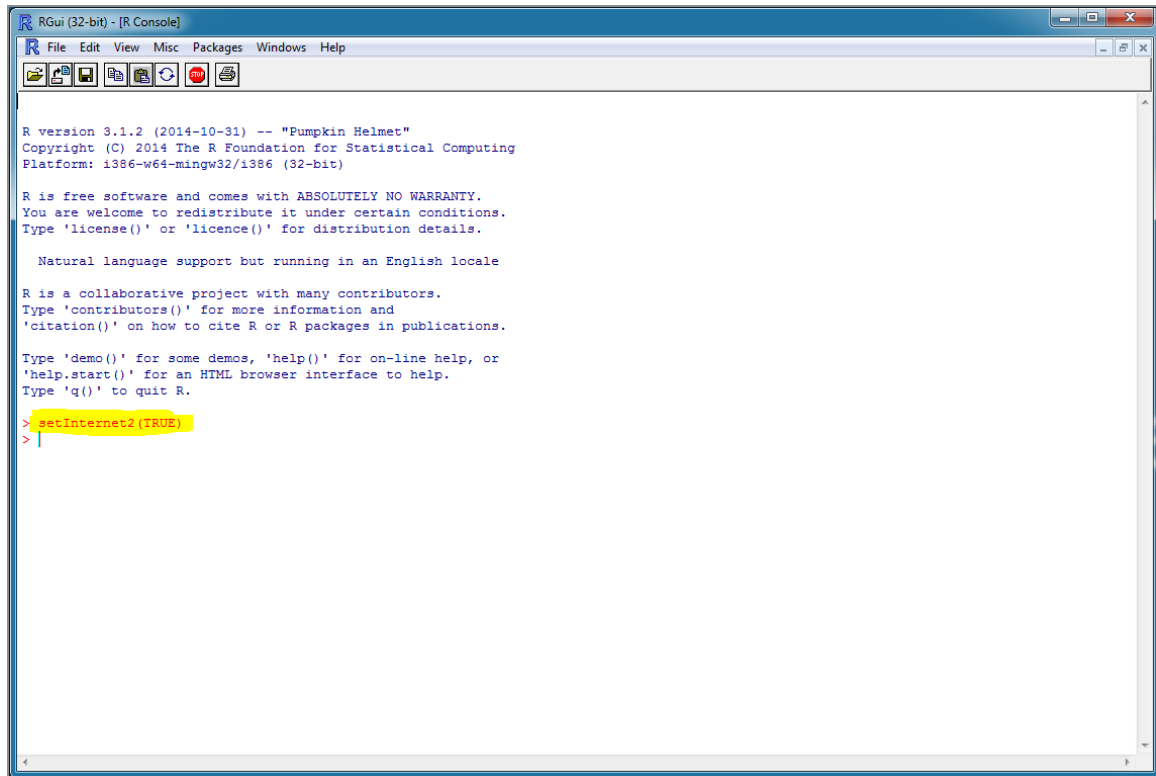
Note: If you only have the 64-bit version of R, you do not need to register the 32-bit COMadaptR.

Procedure

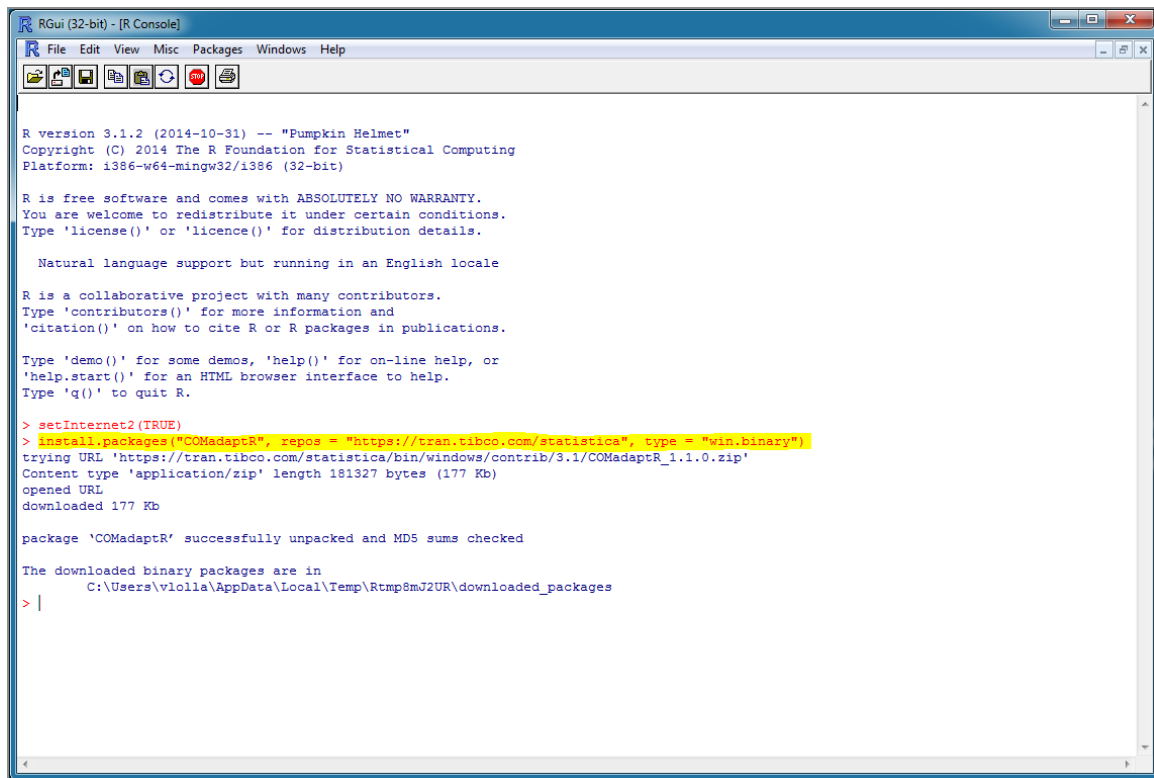
1. Ensure that you have installed a compatible version of the R Statistical Environment (version 4.3.3). For more information about compatible versions of R, see Statistica documentation (Electronic Manual - embedded with application. Publish Workspace Nodes -> R Node and Customizing Statistica -> Options -> R Integration Tab).
2. Ensure that the version of R used is registered with the system registry (using RSetReg.exe available during the R installation).
3. Run R as an Administrator.



4. If you are using R-3.0.x or R-3.1.x, run the following command; else (if you are using a later version) skip to the next step:
`setInternet2(TRUE)`



5. Execute the following command to install the COMadaptR package from TRAN.
`install.packages("COMadaptR", repos="https://tran.tibco.com/statistica", type="win.binary")`



```
RGui (32-bit) - [R Console]
R version 3.1.2 (2014-10-31) -- "Pumpkin Helmet"
Copyright (C) 2014 The R Foundation for Statistical Computing
Platform: i386-w64-mingw32/i386 (32-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

Natural language support but running in an English locale

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> setInternet2(TRUE)
> install.packages("COMadaptR", repos = "https://cran.tibco.com/statistica", type = "win.binary")
trying URL 'https://cran.tibco.com/statistica/bin/windows/contrib/3.1/COMadaptR_1.1.0.zip'
Content type 'application/zip' length 181327 bytes (177 Kb)
opened URL
downloaded 177 Kb

package 'COMadaptR' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
  C:\Users\vlolla\AppData\Local\Temp\Rtmp8mJ2UR\downloaded_packages
> |
```

6. Execute the following command to query and note the installation directory for COMadaptR package.

```
find.package("COMadaptR")
```



```

RGui (32-bit) - [R Console]
R File Edit View Misc Packages Windows Help

R version 3.1.2 (2014-10-31) -- "Pumpkin Helmet"
Copyright (C) 2014 The R Foundation for Statistical Computing
Platform: i386-w64-mingw32/i386 (32-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
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Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> setInternet2(TRUE)
> install.packages("COMadaptR", repos = "https://tran.tibco.com/statistica", type = "win.binary")
trying URL 'https://tran.tibco.com/statistica/bin/windows/contrib/3.1/COMadaptR_1.1.0.zip'
Content type 'application/zip' length 181327 bytes (177 Kb)
opened URL
downloaded 177 Kb

package 'COMadaptR' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
C:\Users\violla\AppData\Local\Temp\Rtmp8mJ2UR\downloaded_packages
> find.package("COMadaptR")
[1] "C:/R/R-3.1.2/library/COMadaptR"
>

```

7. Open a command prompt (cmd.exe) with Administrator privileges and navigate to the directory in which the COMadaptR package is installed.

```

Administrator: C:\Windows\system32\cmd.exe

C:\>cd C:\R\R-3.1.2\library\COMadaptR
C:\R\R-3.1.2\library\COMadaptR>dir
Volume in drive C is OSDisk
Volume Serial Number is DEF8-A0DF

Directory of C:\R\R-3.1.2\library\COMadaptR

08/11/2017  04:32 PM    <DIR>          .
08/11/2017  04:32 PM    <DIR>          ..
08/11/2017  04:32 PM             740  DESCRIPTION
08/11/2017  04:32 PM             help
08/11/2017  04:32 PM             html
08/11/2017  04:32 PM             698  INDEX
08/11/2017  04:32 PM             libs
08/11/2017  04:32 PM          1,886  MD5
08/11/2017  04:32 PM             Meta
08/11/2017  04:32 PM             444  NAMESPACE
08/11/2017  04:32 PM             R
               4 File(s)          3,768 bytes
               7 Dir(s)  116,100,005,888 bytes free

C:\R\R-3.1.2\library\COMadaptR>

```

8. Register the 32-bit and 64-bit COMadaptR servers using the following commands.

```
libs\i386\COMadaptR.exe/regserver
```

```
libs\x64\COMadaptR.exe/regserver
```


R-integration for the given Spotfire node is completed.

i Note: R and COMadaptR are open-source modules available under separate software license terms and are not part of Statistica. As such, they are not covered by the terms of your agreement with Spotfire, including any terms concerning support, maintenance, warranties, and indemnities. Download and use of these modules is solely at your own discretion and subject to the open-source license terms application to them. By proceeding to download, install and use the R Statistical Environment and COMadaptR R package, you acknowledge the foregoing distinctions between Statistica and open-source modules.

Enabling Python Integration for Statistica Service

Before you begin


You must complete the following steps for every Spotfire node (see [Nodes and Services introduction](#)) on which Statistica Service capability is installed and configured.

 **Note:** If you have already installed any of these components, you need not install them again.

Procedure

1. Install a compatible version of Python (see [Installing Python](#)). For more information on compatible versions of Python, see Statistica documentation (Electronic Manual - embedded with application. Publish Workspace Nodes -> Python Node).
2. Install the comtypes package (see [Pure Python COM package](#)).
3. Install pandas library (see [Python Data Analysis Library](#)).
4. Install matplotlib library (see [Matplotlib](#)).
5. Add Python installation folders to the system PATH variable.

This completes Python integration for the Spotfire node.

 **Note:** Python, comtypes, pandas, and matplotlib (and any dependencies) are available under separate software license terms and are not part of Statistica. As such, they are not covered by the terms of your agreement with Spotfire, including any terms concerning support, maintenance, warranties, and indemnities. Download and use of these modules is solely at your own discretion and subject to the open-source license terms application to them. By proceeding to download, install and use the aforementioned software, you acknowledge the foregoing distinctions between Statistica and the open-source software.

Troubleshooting

Out of Memory

If an **out of memory** or **out of resources** error displays then the non-interactive desktop heap size needs to be increased. For more information, see [Increase non-interactive desktop heap size](#).

Spotfire Documentation and Support Services

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

How to Access Spotfire Documentation

Documentation for Spotfire products is available on the [Product Documentation website](#), mainly in HTML and PDF formats.

The [Product Documentation website](#) is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

The documentation for this product is available on [Spotfire Statistica® Product Documentation](#) page.

How to Contact Support for Spotfire Products

You can contact the Support team in the following ways:

- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our [product Support website](#).
- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the [product Support website](#). If you do not have a username, you can request one by clicking **Register** on the website.

How to Join Spotfire Community

Spotfire Community is the official channel for Spotfire customers, partners, and employee subject matter experts to share and access their collective experience. Spotfire 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 [Spotfire Ideas Portal](#). For a free registration, go to [Spotfire Community](#).

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