



Spotfire® Service for Statistica®

User Guide

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Spotfire® Service for Statistica® Overview

Spotfire® Service for Statistica® is a REST API web service that manages a pool of Statistica instances for concurrent user access to Statistica capabilities within the Spotfire® Server environment.

Spotfire® Service for Statistica® is also known as Statistica Service. This service can execute Statistica workflows submitted by Spotfire® Analyst or Spotfire® Consumer/Spotfire® Business Author users as Spotfire data functions. Data functions are reusable and parameterizable analytic operations defined in Spotfire environment and implemented by analytic engines like TERR (as scripts) or Statistica (as workflows). They are authored in Spotfire® Analyst and can be embedded in Spotfire analyses or saved in Spotfire Library for subsequent reuse.

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).

In Spotfire, you can use Statistica data functions to express calculations, computations, and transformations through Statistica workspaces. With this functionality, Spotfire can leverage Statistica to perform complex computations.

Spotfire has the following two interfaces:

- Spotfire® Analyst
- Spotfire® Consumer (formerly known as Spotfire® Web Player)

Spotfire® Analyst users can author analyses/dashboards (DXP files) containing Statistica data functions (SDF); SDF support is provided through Spotfire® Service for Statistica®. Other users can then consume those dashboards in Spotfire® Analyst desktop client.

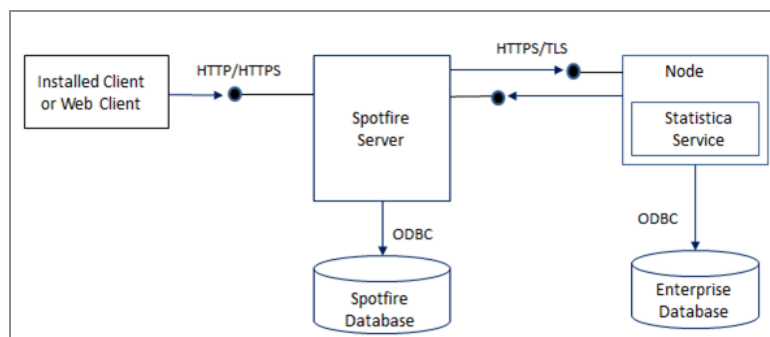
Alternatively, if the DXP file is saved to Spotfire Library on Spotfire® Server, it can be consumed through a web browser, using Spotfire® Consumer/Spotfire® Business Author interface. To support this scenario, Spotfire® Service for Statistica® must be installed on Spotfire Server.

Statistica Service Integration

Spotfire Statistica® Server owners who also own Spotfire® Server, have the right to install the component, Spotfire® Service for Statistica®. You can install this component on the Spotfire Server and run Statistica data functions by using Spotfire Business Author/Consumer (web client) and Spotfire Analyst.

Spotfire Analyst has the capability of authoring Spotfire analyses (DXPs) that can contain Statistica data functions. These DXPs can be saved to the Spotfire Library. You can open these analyses using Spotfire Business Author/Consumer (web client) and can run the data functions using Statistica Service.

The following diagram explains the relationship between Spotfire and Statistica Service.



There are different user personas that are described in detail.

| Persona | Capabilities |
|--|--|
| User 1: Installed Client - Spotfire Analyst with Data Science-Statistica | <ul style="list-style-type: none"> Authors Statistica Workspaces (.sdm files). Statistica is the visual programming user interface for data science. Authors Spotfire Analyses (.dxd files). Spotfire is the visual exploration user interface. Uses the Statistica data function within the Spotfire Analyst application. Connects the two files (.sdm and .dxd) together. Solution developer and creates a solution once |

| Persona | Capabilities |
|---|---|
| | and uses it many times. |
| User 2: Installed Client - Spotfire Analyst | <ul style="list-style-type: none"> • Authors Spotfire Analyses (.dxd files) and performs ad hoc analyses. • Also opens and executes a Spotfire analysis that is connected to a Statistica Workspace. • Acts as an analyst and a solution consumer. |
| User 3: Installed Client - Data Science-Statistica | <ul style="list-style-type: none"> • Authors Statistica Workspaces (.sdm files). • Shares these files with persona 1 or 2. • Using the Statistica data function, you can create a .dxd file and connect it to the .sdm file. • Can be a data scientist and/or engineer. |
| User 4: Web Client - Spotfire Consumer with Data Science-Statistica Service | <ul style="list-style-type: none"> • Opens a browser and consumes solutions. |
| User 5: REST API Web Service | <ul style="list-style-type: none"> • Can be a technical user / developer. • Manages Statistica instances within Spotfire environment. |
| Statistica Service | <ul style="list-style-type: none"> • Owns a Spotfire Server license. • Owns a Statistica Server license, hence has the privilege to use Statistica Service. |

For more information about the application-component relationship, refer to the "Overview" section of the *Spotfire® Service for Statistica® Installation and Configuration* guide.

Running a Statistica Data Function using Spotfire Business Author/Consumer (Web Client)

Spotfire analyses containing Statistica data functions can be consumed directly by Spotfire Business Author/Consumer (web client) in the browser instead of Spotfire Analyst Desktop application.

Before you begin

- Statistica Service must be installed before using the Web Player to consume the Spotfire analyses containing Statistica data functions.
- Statistica data functions present in the Spotfire Analysis (DXP) must be [trusted](#) and saved in the Spotfire Library using Spotfire Analyst before opening the Spotfire analysis in the Web Player. For more information, refer to "Registering a Data Function" section in *Spotfire Statistica® for Spotfire® Analyst* documentation.
- You must have Spotfire® Data Science - Operations licensing before using the Spotfire Business Author/Consumer to run the Statistica data function. For more licensing information, open a support case on [Spotfire Support Portal](#).

Like other data functions, there are several ways in which you can trigger the execution of a Statistica data function.

Procedure

1. You can use the action control element tied to a Statistica data function that is clicked.
2. You can change the inputs to a Statistica data function which has the **Refresh function automatically** property selected in the Edit Parameters dialog.

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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