

TIBCO Spotfire[®] Extension for OpenSpirit[®]

Release Notes

Software Release 1.2.0

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Preface

TIBCO Spotfire® Extension for OpenSpirit® is an add-on product for TIBCO Spotfire® Analyst. This product allows you to easily connect to OpenSpirit which in turn connects to many geotechnical and GIS data stores and applications.

The TIBCO Spotfire Extension for OpenSpirit version 1.2.0 is designated with U.S. Department of Commerce Export Control Classification Number EAR99.

Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
<i>TIBCO_HOME</i> <i>ENV_HOME</i> <i>OSP_HOME</i>	<p>Many TIBCO products must be installed within the same home directory. This directory is referenced in documentation as <i>TIBCO_HOME</i>. The default value of <i>TIBCO_HOME</i> depends on the operating system. For example, on Windows systems, the default value is C:\tibco.</p> <p>Other TIBCO products are installed into an <i>installation environment</i>. Incompatible products and multiple instances of the same product are installed into different installation environments. An environment home directory is referenced in documentation as <i>ENV_HOME</i>. The default value of <i>ENV_HOME</i> depends on the operating system. For example, on Windows systems the default value is C:\tibco.</p> <p>TIBCO < <i>ProductName</i> > installs into a directory referenced in documentation as <i>OSP_HOME</i>. The default value of <i>OSP_HOME</i> depends on the operating system. For example on Windows systems, the default value is C:\Program Files\OpenSpirit.</p>
code font	<p>Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example:</p> <p>Use MyCommand to start the foo process.</p>

bold code font

Bold code font is used in the following ways:

- In procedures, to indicate what a user types. For example:
Type **admin**.
- In large code samples, to indicate the parts of the sample that are of particular interest.
- In command syntax, to indicate the default parameter for a command. For example, if no parameter is specified, MyCommand is enabled:
MyCommand [**enable** | disable]

italic font

Italic font is used in the following ways:

- To indicate a document title. For example: See *TIBCO ActiveMatrix BusinessWorks Concepts*.
- To introduce new terms. For example: A portal page may contain several portlets. *Portlets* are mini-applications that run in a portal.
- To indicate a variable in a command or code syntax that you must replace. For example: MyCommand *PathName*

Key combinations

Key name separated by a plus sign indicate keys pressed simultaneously. For example: *Ctrl+C*.

Key names separated by a comma and space indicate keys pressed one after the other. For example: *Esc, Ctrl+Q*.



The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances.



The tip icon indicates an idea that could be useful, for example, a way to apply the information provided in the current section to achieve a specific result.



The warning icon indicates the potential for a damaging situation, for example, data loss or corruption if certain steps are taken or not taken.

Connecting with TIBCO Resources

How to Join TIBCOmmunity

TIBCOmmunity is an online destination for TIBCO customers, partners, and resident experts, a place to share and access the collective experience of the TIBCO community. *TIBCOmmunity* offers forums, blogs, and access to a variety of resources. To register, go to <http://www.tibcommunity.com>.

How to Access All TIBCO Documentation

After you join *TIBCOmmunity*, you can access the documentation for all supported product versions here:

<http://docs.tibco.com/TibcoDoc>

How to Contact TIBCO Support

For comments or problems with this manual or the software it addresses, please contact TIBCO Support as follows.

- For an overview of TIBCO Support, and information about getting started with TIBCO Support, visit this site:
<http://www.tibco.com/services/support>
- If you already have a valid maintenance or support contract, visit this site:
<https://support.tibco.com>
Entry to this site requires a user name and password. If you do not have a user name, you can request one.

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Check the TIBCO Product Support web site at <https://support.tibco.com> for product information that was not available at release time. Entry to this site requires a username and password. If you do not have a username, you can request one. You must have a valid maintenance or support contract to use this site.

Topics

[New Features](#)

[Changes in Functionality](#)

[Deprecated and Removed Features](#)

[Migration and Compatibility](#)

[Closed Issues](#)

[Known Issues](#)

New Features

This section lists features added since the last major release of this product.

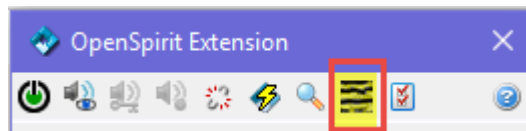
Release 1.2.0

The following are new features in Release 1.2.0.

- Added ability to load bulk data into Spotfire. Bulk data includes 2d seismic datasets, 3d seismic volumes, 3d seismic horizon and properties, and 3d grid and properties. For 3d seismic, the data to be loaded can be subset with constant Z value(s) and/or horizon(s). The bulk data can be displayed in *Ruths AI's Subsurface Viewer*. See the User's Guide for more details on loading of the bulk data.



To bring up the bulk data manager to load the seismic/horizon bulk data, click on the icon boxed in red below:



- Added handling of OpenSpirit GIS grid events. A Spotfire data table with the grid values will be created when a GIS grid event is received. Besides the X and Y columns, the data table will have a Z column and a column with the grid name. If the grid is in time or depth, both the Z column and the grid name column will be populated with the grid values. If the grid is other domain type, the Z column will contain 0 and the grid name column will be populated with the grid values.

Release 1.1.0

The following are new features in Release 1.1.0.

- Added the Help and Support tab to the OpenSpirit settings dialog. In this tab, users can set the logging level for the Extension, versions of the various dependent components, support contact information, and location of the Extension's log file.
- The OpenSpirit Extension's log file can be found under the OpenSpirit umbrella in %LOCALAPPDATA%\OpenSpirit\SpotfireExtension folder.
- Added command to bring up the OpenSpirit Data Selector.
- In the OpenSpirit settings dialog, Additional Settings tab, added the option to replace contents of matching tables.

- Enhanced the Spotfire-Details model view to enable the sending of the actual horizon fault boundary polygons to Spotfire.
- Added various OpenSpirit properties to the document and data table.

Release 1.0.0

This is the first major release of this product.



In order to use the Spotfire Extension for OpenSpirit a valid v3.2.2 (or newer) OpenSpirit Runtime installation is required.

- **Receive Data Selection Events**
Send data selection events from the OpenSpirit data selector, ArcGIS, Petrel, or other OpenSpirit enabled application. Based on the selected model view this causes the selected data to be imported into Spotfire (even binary data like well logs and directional surveys). Spatial data and measurements are converted into the desired coordinate and unit system.
- **Receive GIS Selection Events**
Send GIS events from ArcGIS, Petrel, or other OpenSpirit enabled application. The geometry and all the feature attributes will be imported into Spotfire data tables that may be displayed in MapCharts or other visuals. Spatial data is converted into the desired coordinate system.
- **Receive Map Image Event from ArcGIS**
Send a snapshot of the current map displayed in ArcGIS which will then be geo-registered and used as a background image in a Spotfire MapChart.
- **Send/Receive MapView Events**
This allows one to synchronize the ArcMap view extent with the Spotfire MapChart view extent. Zooming in one application causes the other application to zoom to the same area.
- **Send/Receive Highlighting Events**
Selections made in ArcGIS will cause corresponding rows to be marked in Spotfire and markings made in Spotfire will cause GIS features to be highlighted in ArcGIS
- **Send Data Selection Events**
Select rows from a Spotfire datatable that has an OpenSpirit datakey column and send OpenSpirit data selection events to other OpenSpirit enabled applications (e.g. Petrel, ArcGIS, etc...)
- **Send GIS Selection Event Activity**
Select rows from a Spotfire datatable that has a geometry column (WKB) and send OpenSpirit GIS selection events to other OpenSpirit enabled applications (e.g. Petrel, ArcGIS, etc...)

Changes in Functionality

This section lists changes in functionality since the last major release of this product.

Release 1.2.0

The following are changes in functionality for Release 1.2.0.

- The 3D coordinate system created by the Extension will honor the depth unit specified in the preference dialog.
- The default coordinate system is set to be WGS 84 / Pseudo-Mercator (EPSG code 3857).
- The Spotfire-Details model view (v13) has been modified to enable loading of seismic/horizon bulk data.
- The Spotfire-Summary model view (v4) has been modified to include additional attributes.
- The default model view will be set to Spotfire-Summary model view.
- The Settings dialog will show the model view version as well as the name so users will know if their Spotfire model views are up-to-date.
- If there's error in coordinate conversion on incoming GIS event, error messages will be displayed in the details area.

Release 1.1.0

The following are changes in functionality for Release 1.1.0.

- The information used to be in the information dialog had been moved to the OpenSpirit settings dialog, Help and Support tab.
- OpenSpirit GIS events will result in creation of new MapChart where each layer in the GIS feature maps to a layer in the MapChart.
- The OpenSpirit coordinate system selector will show the current selected coordinate system and transformation.
- The default Data Selector model view will be shown in its actual name instead of "OpenSpirit Default."
- The Extension's build date will be used in checking out the Spotfire Extension license.

Release 1.0.0

This is the first major release of the product.

Deprecated and Removed Features

This section describes deprecated features (if any), and lists features, if relevant, that may be useful alternatives to the deprecated features. Any use of a deprecated feature should be discontinued as it may be removed in a future release. You should avoid becoming dependent on deprecated features and become familiar with the suggested alternative features.

This section also lists features that are removed (if any).

Release 1.2.0

There are no deprecated and/or removed features in this release.

Release 1.1.0

There are no deprecated and/or removed features in this release.

Release 1.0.0

This is the first major release of the product; therefore there are no deprecated or removed features.

Migration and Compatibility

This section explains how to migrate from a previous release to this release and version compatibility.

Release 1.2.0

Migration

There are no migration procedures in the release; any previous version of the Spotfire Extension for OpenSpirit must be uninstalled before installing version 1.2.0. Upgrading will not un-install previously installed versions.

Compatibility

TIBCO Spotfire Extension for OpenSpirit requires the following products to be previously installed and available:

- TIBCO OpenSpirit Runtime 4.1.0 and 4.2.0.
- TIBCO Spotfire Analyst 7.5.0, 7.6.0 and 7.7.0
- ESRI ArcMap version 10.1, 10.2 and 10.3 (*optional*)
- TIBCO OpenSpirit Extension for ArcGIS version 2015.0.0 (*optional*)



OpenSpirit Runtime 4.1.0 HotFix01 is required to be installed in order for the Spotfire Extension to be connected to the OpenSpirit 4.1.0 Master installation.

Certified Operating Systems

- Windows 10 (64 bit)
- Windows 8.0 & 8.1 (64 bit)
- Windows 7 (64 bit)

Release 1.1.0

Migration

There are no migration procedures in the release; any previous version of the Spotfire Extension for OpenSpirit must be uninstalled before installing version 1.1.0. Upgrading will not un-install previously installed versions.

Compatibility

TIBCO Spotfire Extension for OpenSpirit requires the following products to be previously installed and available:

- TIBCO OpenSpirit Runtime 4.0.3 or higher
- TIBCO Spotfire Analyst 6.5.0 or higher
- ESRI ArcMap version 10.x (*optional*)
- TIBCO OpenSpirit Extension for ArcGIS version 2015.0.0 or higher (*optional*)



OpenSpirit Runtime 4.1.0 HotFix01 is required to be installed in order for the Spotfire Extension to be connected to the OpenSpirit 4.1.0 Master installation.

Certified Operating Systems

- Windows Vista (32 & 64 bit)
- Windows 7 (64 bit)

Release 1.0.0

Migration

This is the first major release of the product.

Compatibility

TIBCO Spotfire Extension for OpenSpirit requires the following products to be previously installed and available:

- TIBCO OpenSpirit Runtime 3.2.2 or higher
- TIBCO Spotfire Professional 4.0.0 or higher
- ESRI ArcMap version 10.0 (*optional*)
- TIBCO OpenSpirit Extension for ArcGIS version 2010.1.0 or higher (*optional*)

Certified Operating Systems

- Windows 10 (64 bit)
- Windows 7 (64 bit)

Closed Issues

The table in this section list issues that were closed in the named release.

Closed in Release	Key	Summary
1.2.0	OSPSF-24	The vertical unit in the 3D coordinate system does not honor the selected unit system.
1.2.0	OSPSF-26	Allow an upper bounding horizon and a lower bounding horizon to define Z value of 3D seismic.
1.2.0	OSPSF-29	Turning diagnostic on for the Extension should turn on diagnostic for the OpenSpirit framework.
1.2.0	OSPSF-36	Handle OpenSpirit GIS grid events.
1.2.0	OSPSF-37	When using the Spotfire-Details model view, the column heading for the 2d survey was "Name," instead of "2D Survey."
1.2.0	OSPSF-88	When using the Spotfire-Details model view, the comment was missing if the comment contains the '@' symbol.
1.2.0	OSPSF-132	Spotfire no longer receives GIS events after changing preferred coordinate system.
1.2.0	OSPSF-135	When you set the preferred unit system to 'NONE,' the selected coordinate system won't stay selected.
1.2.0	OSPSF-137	The unit of the well bottom location's Z value from a GIS event wasn't been preserved when no unit system was selected.
1.1.0	30902	The default Data Selector model view will be shown in its actual name instead of "OpenSpirit Default."
1.1.0	31437	Logging is not hooked up with Spotfire 5. The Extension now has its own log file and logging level setting.
1.1.0	31251	Useless error message if cannot connect to OpenSpirit master installation.
1.1.0	30430	Markers not positioned correctly on background map image if image has different coordinate system than the preferred coordinate system set on the Spotfire Extension.

Known Issues

The following are the most significant issues known at the time of the release

Key	Summary/Workaround
OSPSF-4	If comment field has multiple lines, only the first line is displayed in the Spotfire data table's cell. However, if you hover the cell, all lines will be shown.
OSPSF-5	Renaming/removing the mapped Spotfire data table and renaming/removing the mapped Spotfire column will not disconnect the highlight session. User has to disconnect the highlight session manually.
OSPSF-13	GIS event data (points and polylines) in time domain have all the Z values set to 0.