

TIBCO OpenSpirit[®] Runtime

Release Notes

Software Release 4.2.0

December 2015

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Preface

TIBCO OpenSpirit Runtime 4.2.0 represents a major step forward in the evolution of the OpenSpirit integration framework. Version 4.2.0 builds on the existing capabilities, providing live access to all your data wherever it resides, event coordination between vendor products, and automatic conversion of units and coordinate systems. Many of these workflows have been significantly simplified and extended, and our graphical tools have significantly more depth and breadth than ever before. An entirely new mechanism for Data Connector deployment is available. This will allow future Data Connector product releases to be decoupled from the Runtime releases, enabling an easier path to updating Data Connectors

If you are an OpenSpirit administrator, you'll find the installation and configuration process simplified, and easier to access through the Installation Configuration tool.

TIBCO OpenSpirit Runtime 4.2.0 is designated with U.S. Department of Commerce Export Control Classification Number **5D992**.

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> <pre>Use MyCommand to start the foo process.</pre>
bold code font	<p>Bold code font is used in the following ways:</p> <ul style="list-style-type: none">• 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:

<https://docs.tibco.com>

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.

Release Notes

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 4.2.0

The following are new features in this release.

InstallConfig Tool

- An SMTP server can now be specified in the "Advanced Settings" tab of the InstallConfig tool. This enables users to send emails upon completion of OpenSpirit Scan or Copy jobs. Users can set the destination email account(s) via the Emails settings tab of the User Setup Wizard.

Runtime

- Updated the EPSG metadata based on EPSG geodetic parameter dataset version 8.7 released on April 22, 2015.
- The OpenSpirit Common data model was enhanced by adding the EpiSeismic_PostStack2d association to EpiInterpretation_FaultPolyline and EpiInterpretation_HorizonGrid1dProperty.
- The OpenSpirit Common data model was enhanced by adding the EpiSeismic_PostStack3d association to EpiInterpretation_FaultPolyline and EpiInterpretation_HorizonGrid2dProperty
- A new tab was added to the User Setup Wizard to enable sending of emails at the completion of Copy, Scan and Scan for Studio jobs.

Data Connectors

- EPOS – Added new EPOS-4 data connector support for Paradigm 15 (EPOS15) running on RHEL Server release 5 or 6 (64-bit).
- Studio –Added new Studio-2014.5 data connector support for Studio Runtime 2014.5+ running on Windows -7 (64-bit).
- Studio - Added new Studio-2015.1 data connector support for Studio Runtime 2015.1+ running on Windows -7 (64-bit).

 *There are significant performance slowdowns using Studio 2015.x, these issues have be communicated to Schlumberger who are investigating API fixes.*

Changes in Functionality

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

Release 4.2.0

The following are changes in functionality in this release.

Runtime

- The Shared Services now includes an embedded webserver, so both GIOP and HTTP protocol are used to communicate with the shared services process

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 4.2.0

The following are deprecated or removed features in this release.

- Dropped support for SunOS platform.
- Dropped support for the Finder data connector.

Migration and Compatibility

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

Release 4.2.0

Migration

TIBCO OpenSpirit Runtime v4.2.0 is a full-installation; however one can export/import configuration information from a previous master installation.

NOTE: The list of separately downloadable 3rd party software has changed from previous releases; please make sure you have the prerequisites in place before attempting to install v4.2.0.

All platforms:

- product_tibco_lgpl_jacorb_3.4.0.002_common.zip
- product_tibco_lgpl_jts_1.12.0.001_common.zip

Linux

- product_tibco_eclipse_swt_lgpl_3.5.1.001_linux26gl23_x86.zip
- product_tibco_lgpl_mico_2.3.13.003_linux26gl23_x86.zip

Windows

- product_tibco_lgpl_mico_2.3.13.007_win_x86.zip

Compatibility

TIBCO OpenSpirit Products

- TIBCO ActiveMatrix BusinessWorks Plug-in for OpenSpirit 1.4.0
- TIBCO OpenSpirit Adapter for Petrel
 - 22.0.0 (for Petrel 2013)
 - 23.0.0 (for Petrel 2014.x)
 - 24.0.0 (for Petrel 2015.x)
- TIBCO OpenSpirit ArcGIS Extension 2015.0.0
- TIBCO OpenSpirit Copy Manager 2015.0.1
- TIBCO OpenSpirit Copy Rule Manager v2015.0.1
- TIBCO OpenSpirit Scan Utility 2013.0.0
- TIBCO OpenSpirit Scan for Studio
 - 3.0.0 (for Studio Manager 2014.x)
 - 4.0.0 (for Studio Manager 2015.x)
- TIBCO Spotfire Extension for OpenSpirit 1.1.0

Data Connectors

The TIBCO OpenSpirit Runtime v4.2.0 includes the following Data Connectors:

- TIBCO OpenSpirit Data Connector for EPOS v2.2.0
- TIBCO OpenSpirit Data Connector for GeoFrame v2.0.1
- TIBCO OpenSpirit Data Connector for Kingdom v2.1.1
- TIBCO OpenSpirit Data Connector for OpenWorks v2.2.0
- TIBCO OpenSpirit Data Connector for Petra v2.1.0
- TIBCO OpenSpirit Data Connector for PPDM v2.1.0
- TIBCO OpenSpirit Data Connector for Recall v2.0.1
- TIBCO OpenSpirit Data Connector for SDE v2.0.1
- TIBCO OpenSpirit Data Connector for SEG Y v2.0.1
- TIBCO OpenSpirit Data Connector for Studio v3.4.0

Certified Operating Systems

- Linux
 - Red Hat Enterprise Linux Server release 5 (Tikanga)
 - Red Hat Enterprise Linux Server release 6.5 (Santiago)
- Microsoft Windows
 - Windows Vista (32 & 64 bit)
 - Windows 7 (64 bit)
 - Windows 8 and 8.1 (64-bit)

Estimated Hardware Requirements

- Linux
 - At least 8 GB of RAM
 - 80 GB disk drive and
 - Standard graphics card for Windows PC
- Windows
 - At least 8 GB of RAM
 - 80 GB disk drive
 - Standard graphics card for Windows PC

Estimated Disk Requirements

- Binary installation (not including `config/` directory or database directory)
 - Linux: 1.8Gb
 - Windows: 2.3Gb
- Embedded database
 - average size is between 500-1000Mb

External Dependencies

- FlexLM 11.5.0.0 on Windows, and Linux Certified Operating Systems above

Certified Data Stores

OpenWorks/SeisWorks

- OpenWorks R5000.8 running on Linux RHEL Server release 5 x86_64 using Oracle 11.2.0.1.
- OpenWorks R5000.10 running on Linux RHEL Server release 5 or 6 (64-bit)

EPOS

- Paradigm 2011.x (EPOS 4.1.1, 4.1.2, 4.1.3) running on Linux RHEL Server release 5 or 6 (64-bit only)
- Paradigm 14.1 (EPOS 4.2.1) running on Linux RHEL Server release 5 or 6 (64-bit only).
- Paradigm 15 (EPOS 15) running on Linux RHEL Server release 5 or 6 (64-bit only)

GeoFrame/IESX/Charisma

- GeoFrame, IESX and Charisma 4.4 running on Linux RHEL Server release 5 using Oracle 10.2.0.3
- GeoFrame, IESX and Charisma 4.5 running on Linux RHEL Server release 5 using Oracle 10.2.0.3
- GeoFrame 2012 running on Linux RHEL Server release 5 using Oracle 11.2

Kingdom

- SMT Kingdom 8.8 (64 bit) running on Windows-7 (64 bit)
- SMT Kingdom 2015 (64-bit) running on Windows-7 (64-bit)

Petra

- Petra 3.8.3 (32 bit) running on Vista (64 bit) & Windows-7 (64 bit)

PPDM

- PPDM 3.7 running on Oracle 9i
- PPDM 3.8 running on Oracle 10.2.0.4
- *newer versions of Oracle that support PPDM should also be OK, but have not been certified*

Recall

- Recall 5.3 running on Linux 2.4.x or 2.6.x

- Recall 5.4 running on Linux 2.6.x

ArcSDE Culture

- SDE 9.3 SP1 on Oracle 10.2.0.3
- SDE 10

ArcSDE 10 is supported but presented as SDE 9 in OpenSpirit

SEGY

- The OpenSpirit "Managed" SEG Y server running on Linux or Windows.

Studio

- Studio 2013.7 running on Windows-7 (64-bit).
- Studio 2014.5+ running on Windows-7 (64-bit).
- Studio 2015.1+ running on Windows-7 (64-bit)

 *There are significant performance slowdowns using Studio 2015.x, these issues have be communicated to Schlumberger who are investigating API fixes.*

Closed Issues

The table lists issue that were closed in the named release.

Closed in Release	CR #	Summary
		Runtime
4.2.0	34439	Fixed a carto problem for 3d data conversion when both "from" and "to" vertical systems have the same unit (unit cannot be unknown) and different orientation. Originally released as part of Runtime v4.1.0-HF05.
4.2.0	34443	Upgraded to the latest Java 1.8 JRE in the TIBCO OpenSpirit Runtime.
4.2.0	34457	Fixed a problem where the Shared Server process might hang due a badly behaved client application.
4.2.0	34479	Fixed issue where Studio data connector external authentication did not work when OpenSpirit was configured to use "External Executable" server activation. Originally released as part of Runtime 4.1.0-HF04.
4.2.0	34483	Fixed issue where Shared Server might deadlock when listing OpenWorks projects. Originally released as part of Runtime 4.1.0-HF04.
4.2.0	34641	.NET OpenSpirit-enabled applications (like the OpenSpirit Spotfire Extension) fail to receive events. Any .NET OpenSpirit-enabled applications that use multiple app-domains will have a problem. Note: The TIBCO OpenSpirit Adapter for Petrel and the TIBCO OpenSpirit Extension for ArcGIS do not exhibit this problem. Originally released as Runtime 4.1.0-HF01.
4.2.0	34680	Updated the EPSG metadata based on EPSG geodetic parameter dataset version 8.7 released on April 22, 2015.
4.2.0	34681	Updated OpenSSL to version 1.0.2d
4.2.0	34694	Long running copy jobs to PPDM might get a "Lost connection to remote QueryExecutor Details: Connection failure". Originally released as part of Runtime v4.1.0-HF04.
4.2.0	34751	Improved error message when parseDataKey(s) fails (logging change only). Originally released as part of Runtime 4.1.0-HF04.
4.2.0	34767	A new transform method "Molodensky" was added for ESRI WKT. Tests have shown that both "Molodensky" and "Geocentric" translation give the same transform results. Originally released as part of Runtime v4.1.0-HF03.
4.2.0	34782	Upgraded SDE libraries to version 10.3.1.
4.2.0	34783	The ESRI WKT mappings were updated; now based on the ESRI pe library of ArcMap 10.3.

Closed in Release	CR #	Summary
4.2.0	34790, 34809	Fixed a problem loading metadata when installing new data connector package files. Originally released as part of Runtime 4.1.0-HF04.
4.2.0	34885	Fixed an "off by one hour" timestamp conversion problem when reading dates from native providers under certain circumstances.
4.2.0	34895	Fixed a bug in the ESRI WKT projection conversion mappings to make sure that the method used for Hungarian Egyseges Orszagos Vetuleti is mapped correctly. Now the conversion results from Petrel and ArcMap will match the results from the native data stores.
4.2.0	35005	Fixed a problem where an empty string was being used as the default password value (instead of null) if the master installation was configured to use "SSH with Password Authentication (Interactive)" or "'Rexec with Password Authentication (Interactive)'"'. Originally released as v4.1.0-HF05.
4.2.0	35192	Create a new bin/etc/installDCPackage script (both *.sh and *.bat) for customers wanting to script their own data connector installations.
4.2.0	35254	Projection conversion method, "Stereographic North Pole (EPSG code: 9829)" is added in OpenSpirit ESRI WKT system exchanger.
4.2.0	35260	The OpenSpirit data model was enhanced by adding the EpiSeismic_PostStack2d association to EpiInterpretation_FaultPolyline and EpiInterpretation_HorizonGrid1dProperty. The EpiSeismic_PostStack3d association was added to EpiInterpretation_FaultPolyline and EpiInterpretation_HorizonGrid2dProperty. The DataSelector default model view was modified to show the associations if the client chooses to display the columns.
4.2.0	22994, 35282	Performance improvements to enable sending large grid events from TOAP (would previously hang TOAP). Enhanced the GIS (GRID) event infrastructure to enable sending of large grids as GIS event from a .NET application, such as ArcMap and Petrel.
4.2.0	35290	Fixed problem in .NET event receiving when a user had a secondary account that differed only by case.
4.2.0	35451	We have improved our ESRI WKT system exchanger to handle concatenated transforms. A concatenated transform is for transforming data from Datum A to Datum B, and then to WGS84. With this enhancement, OpenSpirit can handle a predefined or custom defined datum B.
4.2.0	35957	The Windows installer will now default the "Create Icons for All Users" checkbox to be checked on the "Choose Shortcuts" panel.

Closed in Release	CR #	Summary
Desktop		
4.2.0	34508, 35401	Fixed a problem in the Desktop Data Store Config tool where it was not properly handling a database URL which was defaulting the instance name.
4.2.0	34747	Fixed problem in the User Setup Wizard with the host selection pop-up. Now the selection dialog will open if a host was not previously selected by the user.
4.2.0	34968	Added ability to delete error records from the Process Manager panel.
4.2.0	35018	Enhanced the InstallConfig tool to issue a warning if an attempt is made to update a data connector whose license is about to expire (updating could cause the existing license to be out of date for the new data connector version).
4.2.0	35263	Fixed issue in User Manager, if a process failed to start it prevented a user from being deactivated in the User Manager window.
4.2.0	35470	Performance improvements in the Process Manager. Significantly faster and more robust listing of processes.
4.2.0	35572	When saving Scan jobs, the Scan Model View name will now be included in the job definition, in case if the model view is missing, the error dialog can display the model view name in addition to the UUID.
4.2.0	35498	An SMTP server can now be specified in the "Advanced Settings" tab of the InstallConfig tool. This enables users to send emails upon completion of OpenSpirit Scan or Copy jobs. Users can set the destination email account(s) via the Emails settings tab of the User Setup Wizard.
4.2.0	35507	Now possible to display the EpilInterpretation_Horizon's StratColumn and StratColumnName in the DataSelector's "Horizon Header" tab.
Viewers		
4.2.0	34577	Fixed a problem where GIS events broadcast to 3D viewer were getting a NullPointerException when a polygon had no interior rings.
4.2.0	34700	Fixed 3dViewer where it was not properly calculating cell spacing for grid selection events.
4.2.0	35030	The 3dViewer has been fixed so it now reports the correct XY values for Seismic 2d datasets with more than 8000 traces. Originally released as part of Runtime-v4.1.0-HF06.
4.2.0	35079	Fixed a bug that was introduced in the v4.1.0 3dViewer. The depth-based primary Z non-seismic grids are now displayed correctly in the 3dViewer. Previously the grid values were incorrectly negated.

Closed in Release	CR #	Summary
4.2.0	35568	Fixed problems in the 3dViewer when displaying very large horizons/grids and the grid could not be displayed. This is data specific based on the size of the grid and the amount of depopulation. The grid is now displayed correctly.

Known Issues

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

Key	Summary/Workaround
Runtime	
32029	The OpenSpirit runtime should not be installed to a path longer than 125 characters or Microsoft file system naming limits might become a problem.
30374	Geographic systems using axis units other than degrees are not properly converted to WKT and conversions using such units will not give proper results unless the angular units used in the projection parameters match those of the geographic system axes.
35844	After running the OpenSpirit Runtime uninstall, any dependent OpenSpirit products (like Copy Manager, Scan for Studio Find, or Scan Utility) which were not independently uninstalled beforehand, may not automatically be removed from the Microsoft "Add/Remove Programs and Features" list, even though they were uninstalled. You may have to press FK-5 in the Microsoft dialog to refresh the list before those entries will show as removed.