



TIBCO OpenSpirit[®] Adapter for Petrel

Release Notes

Software Release 20.0.2

December 2011

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Preface

The TIBCO OpenSpirit[®] Adapter for Petrel provides seamless access to more than twelve OpenSpirit-enabled data stores, including GeoFrame[®], Finder[®], OpenWorks[®], and KINGDOM[™].

End users can access data across multi-vendor and cross-disciplinary data stores and applications in a single step, without the need to learn multiple user interfaces. Petrel users can now be liberated from the mundane and time-consuming task of searching for the right data to load into Petrel.

Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
<i>TIBCO_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 <code>C:\tibco</code>.</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 <code>C:\tibco</code>.</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 <code>C:\Program Files\OpenSpirit</code>.</p>
<i>ENV_HOME</i>	
<i>OSP_HOME</i>	
code font	<p>Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example:</p> <p>Use <code>MyCommand</code> to start the foo process.</p>
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, <code>MyCommand</code> is enabled: <code>MyCommand [enable disable]</code>

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.

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 20.0.2

There are no new features in this release.

Release 20.0.1

The following are new features in Release 20.0.1.

- Ability to send data selection or GIS events from the data manager.
- Added an option in the OpenSpirit options dialog to save imported 2d datasets in RAW or SEG Y format. By default, 2d datasets will be saved in SEG Y format in the project folder. Users can change the storage location via the OpenSpirit options dialog.
- Attributes in GIS events will be in Petrel project's display units.
- When using Petrel 2011, the OpenSpirit Adapter will use the log kind for the global well log template.

Release 20.0.0

The following are new features in Release 20.0.0.

- Starting with v20.0.0, TIBCO OpenSpirit[®] Adapter for Petrel will require a new Petrel plug-in license feature, available via Schlumberger. The license will show up in the Petrel's license package selection window, under "Ocean plug-ins". The "TIBCO OpenSpirit Adapter for Petrel" license feature must be checked to activate the Adapter.
 - With Petrel 2009, if this new license feature is not available or not checked upon starting of Petrel, the OpenSpirit toolbar will not be visible.
 - With Petrel 2010, if this new license feature is not available or not checked upon starting of Petrel, the connect button in the OpenSpirit toolbar will not be sensitized.

Changes in Functionality

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

Release 20.0.2

The following are changes in functionality in this release.

- Fixed 3d seismic horizon export problem with data being scrambled.

Release 20.0.1

The following are changes in functionality in Release 20.0.1.

- Improved performance in import and export of the well, seismic, and interpretation objects.
- When importing 2D datasets or 3D volumes, use the data/volume name to create the vintage.

Release 20.0.0

The following are changes in functionality in Release 20.0.0.

- Improved performance and workflow around export of 2d lines that span multiple Seisworks[®] projects.
- Improved handling of custom Petrel coordinate systems.

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 20.0.2

No features are deprecated or removed in this release.

Release 20.0.1

No features are deprecated or removed in this release.

Release 20.0.0

No features are deprecated or removed in this release.

Migration and Compatibility

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

Release 20.0.2

There are no migration procedures issues in the release; the previous version of the Adapter will be uninstalled during the new installation procedure.

Release 20.0.2 is compatible with any operating system certified to run the following Petrel versions:

- Petrel 2009.2 Sep 11, 2009
- Petrel 2010.1 Apr 24, 2010
- Petrel 2010.2 Oct 28, 2010
- Petrel 2011.1 June 14, 2011

Prerequisites that must be installed on the System running the Adapter are:

- Petrel 2009.2 Sep 11, 2009 or Petrel 2010.1 Apr 24, 2010 or Petrel 2010.2 Oct 28, 2010 or Petrel 2011.1 June 14, 2011
- OpenSpirit v3.2.1 or higher

The following tables are the TIBCO OpenSpirit Adapter for Petrel version compatibility matrix:

Petrel perspective

Petrel Version	Petrel Adapter Version	OpenSpirit Runtime Version
2009.1 or earlier	Not Supported	Not Applicable
2009.2	2009 SP1, SP2 or 2010* or 20.0.0, 20.0.1	3.1.4 or higher for TOAP 2009 3.2.1 or higher for TOAP 2010
2010.1, 2010.2	2010 SP1, SP2, SP3, SP4 or 20.0.0, 20.0.1	3.2.1 or higher
2011.1	20.0.0, 20.0.1, 20.0.2	3.2.1 or higher

Petrel Adapter perspective

Petrel Adapter Version	Petrel Version	OpenSpirit Runtime Version
2009 SP1, SP2	2009.2	3.1.4 or higher
2010 SP1, SP2, SP3, SP4	2009.2, 2010.1, 2010.2	3.2.1 or higher
20.0.0, 20.0.1, 20.0.2	2009.2, 2010.1, 2010.2, 2011.1	3.2.1 or higher

Notes:

- The OpenSpirit Adapter for Petrel is not supported in Petrel 2009.1 or earlier. The old SIS OpenSpirit plug-in is required for Petrel 2009.1 or earlier.
- Starting with Petrel 2010.1, the old SIS OpenSpirit plug-in is no longer installed.
- Customers moving to Petrel 2010.1 or higher must use version 2010 SP2 or higher of the Adapter and are requested to upgrade at a minimum to OpenSpirit 3.2.1
- Customers moving to Petrel 2011.1 must use version 20.0.0 of the Adapter and will require a new Petrel license module available from Schlumberger

Release 20.0.1

There are no migration procedures issues in the release, the previous version of the plug-in will be uninstalled during the new installation procedure.

Release 20.0.1 is compatible with any operating system certified to run the following Petrel versions:

- Petrel 2009.2 Sep 11, 2009
- Petrel 2010.1 Apr 24, 2010
- Petrel 2010.2 Oct 28, 2010
- Petrel 2011.1 June 14, 2011

Prerequisites that must be installed on the System running the Adapter are:

- Petrel 2009.2 Sep 11, 2009 or Petrel 2010.1 Apr 24, 2010 or Petrel 2010.2 Oct 28, 2010 or Petrel 2011.1 June 14, 2011
- OpenSpirit v3.2.1 or higher

The following tables are the TIBCO OpenSpirit Adapter for Petrel version compatibility matrix:

Petrel perspective

Petrel Version	Petrel Adapter Version	OpenSpirit Runtime Version
2009.1 or earlier	Not Supported	Not Applicable
2009.2	2009 SP1, SP2 or 2010* or 20.0.0, 20.0.1	3.1.4 or higher for TOAP 2009 3.2.1 or higher for TOAP 2010
2010.1, 2010.2	2010 SP1, SP2, SP3, SP4 or 20.0.0, 20.0.1	3.2.1 or higher
2011.1	20.0.0, 20.0.1	3.2.1 or higher

Petrel Adapter perspective

Petrel Adapter Version	Petrel Version	OpenSpirit Runtime Version
2009 SP1, SP2	2009.2	3.1.4 or higher
2010 SP1, SP2, SP3, SP4	2009.2, 2010.1, 2010.2	3.2.1 or higher

20.0.0, 20.0.1	2009.2, 2010.1, 2010.2, 2011.1	3.2.1 or higher
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Notes:

- The OpenSpirit Adapter for Petrel is not supported in Petrel 2009.1 or earlier. The old SIS OpenSpirit plug-in is required for Petrel 2009.1 or earlier.
- Starting with Petrel 2010.1, the old SIS OpenSpirit plug-in is no longer installed.
- Customers moving to Petrel 2010.1 or higher must use version 2010 SP2 or higher of the Adapter and are requested to upgrade at a minimum to OpenSpirit 3.2.1
- Customers moving to Petrel 2011.1 must use version 20.0.0 of the Adapter and will require a new Petrel license module available from Schlumberger

Release 20.0.0

There are no migration procedures issues in the release, the previous version of the plug-in will be uninstalled during the new installation procedure.

Release 20.0.0 is compatible with any operating system certified to run the following Petrel versions:

- Petrel 2009.2 Sep 11, 2009
- Petrel 2010.1 Apr 24, 2010
- Petrel 2010.2 Oct 28, 2010

Prerequisites that must be installed on the System running the Adapter are:

- Petrel 2009.2 Sep 11, 2009 or Petrel 2010.1 Apr 24, 2010 or Petrel 2010.2 Oct 28, 2010
- OpenSpirit v3.2.1 or higher

The following tables are the TIBCO OpenSpirit Adapter for Petrel version compatibility matrix:

Petrel perspective

Petrel Version	Petrel Adapter Version	OpenSpirit Runtime Version
2009.1 or earlier	Not Supported	Not Applicable
2009.2	2009 SP1, SP2 or 2010* or 20.0.0, 20.0.1	3.1.4 or higher for TOAP 2009
		3.2.1 or higher for TOAP 2010
2010.1, 2010.2	2010 SP1, SP2, SP3, SP4 or 20.0.0	3.2.1 or higher

Petrel Adapter perspective

Petrel Adapter Version	Petrel Version	OpenSpirit Runtime Version
2009 SP1, SP2	2009.2	3.1.4 or higher
2010 SP1, SP2, SP3, SP4	2009.2, 2010.1, 2010.2	3.2.1 or higher

20.0.0	2009.2, 2010.1, 2010.2	3.2.1 or higher
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Notes:

- The OpenSpirit Adapter for Petrel is not supported in Petrel 2009.1 or earlier. The old SIS OpenSpirit plug-in is required for Petrel 2009.1 or earlier.
- Starting with Petrel 2010.1, the old SIS OpenSpirit plug-in is no longer installed.
- Customers moving to Petrel 2010.1 or higher must use version 2010 SP2 or higher of the Adapter and are requested to upgrade at a minimum to OpenSpirit 3.2.1

Closed Issues

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

Closed in Release	Key	Summary
20.0.1	CR 27668 CR 27598	Better error message when importing well known discrete logs
20.0.1	CR 27651	Do not clear out the Petrel project coordinate system when OpenSpirit does not support that coordinate system. It will now pop up an error dialog and prevents user from connecting until the coordinate system issue is resolved.
20.0.1	CR 27641	When the Reference Project Tool is used to copy a “live-link” 3d volume when Petrel has not been connected to OpenSpirit yet, display an error message in the message log window instead of propagating the error to Petrel and thus causing Petrel to crash.
20.0.1	CR 27495 CR 27224	On import, overwriting an existing horizon in Petrel does not work properly.
20.0.1	CR 27490	The GeoFrame grid library should be taken into account when matching non-seismic horizons on import.
20.0.1	CR 27438 CR 27165 CR 27069	Allow import of well logs with duplicate values, if the option in the OpenSpirit Options dialog is checked.
20.0.1	CR 27271	Horizon was flipped when saving it to external project.
20.0.1	CR 27101	Exporting datasets associated with 2d lines with similar names did not work.
20.0.1	CR 27050	Fixed duplicate sections in the help file (PDF version).
20.0.1	CR 27021	Preserve selection in tabs in the Data Manager.
20.0.1	CR 26960	Typos in the error messages.
20.0.1	CR 26946 CR 26292 CR 26273	Non-time and non-depth horizon attributes will be tagged with the correct unit when send as OpenSpirit GRID event.
20.0.1	CR 26931	Report of random number of checkshots activated when importing markers.
20.0.1	CR 26916	All errors reported the boreholes will be using UWI.

Closed in Release	Key	Summary
20.0.1	CR 26893	If the OpenSpirit runtime has not been installed when start Petrel with the OpenSpirit Adapter installed, display a helpful error message.
20.0.1	CR 26864 CR 26312	Ability to import 2d lines into selected folder.
20.0.1	CR 26840	Be able to send GIS and data selection events from the data manager.
20.0.1	CR 26828	Wells without TD will not import into Petrel.
20.0.1	CR 26445	Not able to launch Data Selector from within Petrel is the project unit is ftSears.
20.0.1	CR 26332	Duplicate 2d dataset showing up in subfolders on import.
20.0.1	CR 26275	Cannot receive grids with any unit other than time or depth.
20.0.1	CR 26265	Cannot import 2d datasets if they have more than 33000 traces.
20.0.1	CR 24692 CR 26238	Cannot export 3d volumes that had been imported into Petrel using ZGY importer.
20.0.1	CR 26208	The mnemonic of the first imported well log was used for 2nd and subsequent well logs.
20.0.1	CR 26068	Cannot export horizon property.
20.0.1	CR 25622	Realize 2d datasets in SEG Y format.
20.0.1	CR 25356 CR 24354	Use 2 dataset and 3d volume name as the vintage name on import.
20.0.1	CR 22093	If a well log had been imported into Petrel via the OpenSpirit Adapter, when it is exported to the same data store type, the original log kind will be preserved.
20.0.1	CR 26828	Option to import boreholes without elevation and/or total depth.
20.0.0	CR 26014	Problem of importing a 3d volume of “long” data type has been fixed.
20.0.0	CR 26015	Problem with Petrel hanging when editing an imported checkshot has been fixed.
20.0.0	CR 25930	Performance and workflow around exporting 2d lines have been improved.

Closed in Release	Key	Summary
20.0.0	CR 25710	Blank number field in the GIS attribute editing dialog will be handled properly.
20.0.0	CR 25490	Running Windows with large fonts will not cause the warning icons on the GIS attribute editing dialog to be truncated.
20.0.0	CR 26288	A single well log export failure will not abort the export of the rest of other selected well logs.
20.0.0	CR 26174	Improved the performance of importing well picks into Petrel.
20.0.0	CR 26011	Custom Petrel coordinate system can now be recognized by the adapter.

Known Issues

The table in this section lists known issues in this release.

Key	Summary/Workaround
CR 27680	Cannot export a “live-link” 3d volume via OpenSpirit.
OI 2452	If copy a “live-link” 3d volume from a reference project to a working project using Reference Project Tool, user must first connect to OpenSpirit; otherwise, Petrel will crash.
CR 27295	GeoFrame Data Connector always creates 2d horizons in the Default earth model.
CR 27591	Earth model is not a match and merge criteria for import and export.
PI 249527	Importing multiple versions of the same well log kind will result in multiple global well log templates being created.
none	In very rare cases, round-tripping of cropped 3D volumes from Charisma (import to Petrel from Charisma, realize, crop, export to Charisma, import, and realize again) causes the loss of amplitudes when realizing to a 32bit format (8 and 16 bit are okay). Workaround: Fixed in Petrel 2010.2.
OI 1031	If a 2d horizon GIS event is sent to ArcMap where placeholder datasets still exist in Petrel, the geometries will be sent twice and appear as duplicate lines in ArcMap.
none	Importing 2d seismic DEPTH datasets displays both the dataset and a placeholder in the Petrel tree.
none	Export of data to Petra, GeoFrame, and Kingdom expects a password to be entered. Cancel the resultant User Setup Wizard or run through and set passwords if appropriate.
OI 1723	Empty "One-way time 1" log is created under wellbores when a wellbore with a shared checkshot is imported and the activate checkshot on import option is selected. A workaround is to turn checkshot replication on via the Options dialog.
OI 1046	TOAP depicts holes in GIS polygons as its own polygon. The polygon representing the hole does not appear as a hole to the user.
OI 568	LastModifiedDate (LMD) for a Petrel Marker not updated when modified.
none	Blank place-holder is created in the Petrel Input Tree when importing 3D Seismic Volumes.

Key	Summary/Workaround
none	Does not support drilling targets.
none	On export of seismic data, if the Petrel SRD does not match external project's SRD, a warning is issued to note difference; the export of the data is still performed.
none	The Settings dialog for the Process OpenSpirit cursor tracking does not display. There are no settings for this process.
none	NAD27 transformation methods listed twice in details dialog.
OI 1184	Short_Time unit cannot be set to “s”
none	Unable to export WellType to Kingdom data store.
none	Importing 3d Volumes into Petrel from a Kingdom8.4 data store yields wrong results. Traces appear replicated Workaround: Resolved in Kingdom 8.5
SMT Issue 27012	Exporting CheckShots from Petrel to a Kingdom data store does not account for any difference in Velocity Datum.
none	Only one well log curve version can be exported from Petrel to Kingdom 8.4 because the Kingdom data connector does not support multiple log curve versions.
none	When exporting to a Kingdom data store from Petrel, no matter what interpreter is selected in the Export dialog, the data will always be associated with the Author used to run the Kingdom data connector.
none	The horizon grid “Origin Name” field is not exported when performing an export to a Kingdom project.
none	When upgrading Petrel projects from an older version to Petrel 2009.2 with the TIBCO OpenSpirit Adapter for Petrel (TOAP), the user is prompted to convert any existing keys upon connection to OpenSpirit. Keys are tags for data items, stored in Petrel, that point back to an OpenSpirit data connector. The process of conversion changes the old keys to keys appropriate for TOAP access and validation. Checkshot keys are not converted or validated. Thus, when importing matching check shots with TOAP, they will populate the Petrel project and appear as duplicates. Workaround: Deleting the old check shots is a typical workaround.
OI 1251	Duplicate points are discarded when importing fault polylines into Petrel. Petrel considers a point to be a duplicate if the X, Y, and Z values match any point on the fault, even points on different fault segments.

Key	Summary/Workaround
none	The “Skip” option must be selected when exporting log curves and well picks from Petrel to an OpenSpirit data source that does not support check shot creation.
none	<p>Accessing 3d seismic data via a live link in Petrel from a Kingdom project with an incorrect seismic path setting will cause Petrel to hang.</p> <p>Workaround: This has been fixed in Kingdom 8.5.</p>
none	The min/max sample values shown in the DataSelector may not match the min/max sample values shown in Petrel because the values in the DataSelector do not necessarily reflect the min/max values of the raw seismic data. The time shift, phase rotation, and amplitude scale factor, which are all defined in the Kingdom Suite Survey Management Mistie dialog, may have been applied.
none	Kingdom8.4 data connectors return KB Elevation as Seismic Reference Datum (SRD).
none	Kingdom data connector does not support last modified date. As a result, Match and Merge timestamps comparisons cannot be established to indicate which data source has been updated most recently.
none	<p>Re-importing faults multiple times from a Kingdom data source occasionally produces a lost connection error in the Petrel message log.</p> <p>Workaround: Shut down and restart the Kingdom data connector to reestablish the connection.</p>
none	Exporting faults to a target data store that contains matching parent objects, such as 2d lines or 3d surveys, causes the fault key to update, but not the parent (2d line or 3d survey). Thus there is a mismatch between parent and child sources after export. Caution should be used when exporting faults.
none	Microsoft Windows Uniform Naming Convention syntax is not supported when entering a configuration file custom location on installation.
none	<p>Cannot export 3d seismic horizons to an OpenWorks R5000 data store where the horizon name already exists.</p> <p>Workaround: Issue resolved in OpenSpirit v3.2.2</p>
OI 1612	A change in Petrel 2010 causes the directional survey calculation method to always fall back to linear.
none	When deleting a well pick in Petrel 2010 an error is logged in the message dialog. The delete completes as expected.
OI 1636	Issues migrating unrealized 2d lines from Petrel 2009 or earlier versions.

Key	Summary/Workaround
none	If 2d lines were imported into Petrel 2009.x from an OpenWorks 2003.12 datastore configured in OpenSpirit 3.2.0 or higher, the shotpoint array is not accurate. To resolve this issue, re-import the 2d lines using TOAP (formerly OPAA) 2010.
none	If multiple 3d seismic horizon properties are imported into Petrel from the OpenSpirit Horizon Properties tab, including the primary Z property, the primary Z property loses its OpenSpirit datakey. To resolve this issue, either broadcast from the Horizon tab, or broadcast only the primary Z property from the Horizon Properties tab.
none	When importing 2d horizon properties, the primary Z property is considered part of the geometry, and therefore is not listed as a property in the Petrel message log on import.
none	The WKT for the MENTOR: TIMBALAI:N.W.Borneo RSO Timbalai system is incorrect and should not be used.
OI 1889	Deleting the Well Tops 1 node from the Petrel tree yields an unknown error. Workaround: Expects to be fixed in Petrel 2011.1.

CR = OpenSpirit Issue

OI = Ocean Issue – must be fixed by SIS in Ocean API

PI = Petrel Issue – must be fixed by SIS in Petrel