

# TIBCO OpenSpirit<sup>®</sup> Data Connector for EPOS

## Installation & Configuration Guide

*Software Release 2.4.0*

*July 2017*

# Important Information

SOME TIBCO SOFTWARE EMBEDS OR BUNDLES OTHER TIBCO SOFTWARE. USE OF SUCH EMBEDDED OR BUNDLED TIBCO SOFTWARE IS SOLELY TO ENABLE THE FUNCTIONALITY (OR PROVIDE LIMITED ADD-ON FUNCTIONALITY) OF THE LICENSED TIBCO SOFTWARE. THE EMBEDDED OR BUNDLED SOFTWARE IS NOT LICENSED TO BE USED OR ACCESSED BY ANY OTHER TIBCO SOFTWARE OR FOR ANY OTHER PURPOSE.

USE OF TIBCO SOFTWARE AND THIS DOCUMENT IS SUBJECT TO THE TERMS AND CONDITIONS OF A LICENSE AGREEMENT FOUND IN EITHER A SEPARATELY EXECUTED SOFTWARE LICENSE AGREEMENT, OR, IF THERE IS NO SUCH SEPARATE AGREEMENT, THE CLICKWRAP END USER LICENSE AGREEMENT WHICH IS DISPLAYED DURING DOWNLOAD OR INSTALLATION OF THE SOFTWARE (AND WHICH IS DUPLICATED IN THE LICENSE FILE) OR IF THERE IS NO SUCH SOFTWARE LICENSE AGREEMENT OR CLICKWRAP END USER LICENSE AGREEMENT, THE LICENSE(S) LOCATED IN THE "LICENSE" FILE(S) OF THE SOFTWARE. USE OF THIS DOCUMENT IS SUBJECT TO THOSE TERMS AND CONDITIONS, AND YOUR USE HEREOF SHALL CONSTITUTE ACCEPTANCE OF AND AN AGREEMENT TO BE BOUND BY THE SAME.

This document contains confidential information that is subject to U.S. and international copyright laws and treaties. No part of this document may be reproduced in any form without the written authorization of TIBCO Software Inc.

TIBCO, OpenSpirit, and TIBCO OpenSpirit Data Connector for EPOS are either registered trademarks or trademarks of TIBCO Software Inc. in the United States and/or other countries.

All other product and company names and marks mentioned in this document are the property of their respective owners and are mentioned for identification purposes only.

THIS SOFTWARE MAY BE AVAILABLE ON MULTIPLE OPERATING SYSTEMS. HOWEVER, NOT ALL OPERATING SYSTEM PLATFORMS FOR A SPECIFIC SOFTWARE VERSION ARE RELEASED AT THE SAME TIME. SEE THE RELEASE NOTES FOR THE AVAILABILITY OF THIS SOFTWARE VERSION ON A SPECIFIC OPERATING SYSTEM PLATFORM.

THIS DOCUMENT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT.

THIS DOCUMENT COULD INCLUDE TECHNICAL INACCURACIES OR TYPOGRAPHICAL ERRORS. CHANGES ARE PERIODICALLY ADDED TO THE INFORMATION HEREIN; THESE CHANGES WILL BE INCORPORATED IN NEW EDITIONS OF THIS DOCUMENT. TIBCO SOFTWARE INC. MAY MAKE IMPROVEMENTS AND/OR CHANGES IN THE PRODUCT(S) AND/OR THE PROGRAM(S) DESCRIBED IN THIS DOCUMENT AT ANY TIME.

THE CONTENTS OF THIS DOCUMENT MAY BE MODIFIED AND/OR QUALIFIED, DIRECTLY OR INDIRECTLY, BY OTHER DOCUMENTATION WHICH ACCOMPANIES THIS SOFTWARE, INCLUDING BUT NOT LIMITED TO ANY RELEASE NOTES AND "READ ME" FILES.

Copyright © 2000-2017 TIBCO Software Inc. ALL RIGHTS RESERVED.

TIBCO Software Inc. Confidential Information

# Table of Contents

Table of Contents .....	i
OpenSpirit Concepts.....	2
OpenSpirit Runtime.....	2
Application Adapter .....	2
Data Connector .....	3
OpenSpirit Tools.....	3
Starting the Install Config Manager.....	4
Install Config Manager Tool Bar.....	6
Refresh Button.....	6
Save Button .....	6
Create Master Button.....	6
Create Satellite Button .....	7
Open Button .....	7
Export Metadata Button.....	7
Import Metadata Button .....	7
Unregister Satellite Button .....	8
Import Data Connector Button.....	8
Enable Data Connector Button.....	8
Disable Data Connector Button.....	8
Install Data Connector Button.....	8
Extract Data Connector Button .....	8
Help Button.....	9
Master Data Connector Management .....	10
Data Connector Overview.....	10
Data Connectors Tab .....	10
Importing Data Connectors .....	11
Installing Data Connectors .....	12
Disabling Data Connectors.....	12
Extracting Data Connectors.....	13
Configuring EPOS 4 Data Sources.....	14

# OpenSpirit Concepts

OpenSpirit is a framework that provides multi-vendor application and data interoperability that is targeted at the upstream oil and gas business. OpenSpirit removes technology barriers that, prior to OpenSpirit, prevented applications from working directly with data residing in competing application data stores or in incompatible computing platforms.

OpenSpirit also provides an event bus that enables applications from different software vendors to cooperate in work flows as if they were produced by a common software vendor.

The following sections of this guide describe concepts that are important to understand before planning the installation of your OpenSpirit environment.

## OpenSpirit Runtime

The OpenSpirit runtime is the software infrastructure and services needed to connect applications to data and to other applications. The OpenSpirit runtime is typically installed on all computers in your enterprise that are used to run applications that connect to the OpenSpirit runtime and on computers hosting data stores that feed the applications with data. Typical network configurations of the OpenSpirit runtime are illustrated in the next section of this installation guide titled OpenSpirit Runtime Configurations. Additional OpenSpirit concepts are introduced in the configuration section.

## Application Adapter

A software component that connects a software application to the OpenSpirit runtime is called an application adapter. Applications that have an OpenSpirit application adapter are called an OpenSpirit enabled application.

Application adapters are typically created by the same company that creates the software application. However, some applications provide mechanisms to enable customers and other companies to plug additional capabilities into their application.



The *TIBCO OpenSpirit*© *Adapter for Petrel* and the *TIBCO OpenSpirit*© *ArcGIS Extension* are examples of application adapters that were not developed by the same company that created the application. They were developed by TIBCO Software, Inc.

Application adapters can connect to the OpenSpirit runtime in a variety of ways. They can connect to read data and/or write data that resides in a data store that has OpenSpirit data connector support. Application adapters can also interact with other OpenSpirit enabled applications using various application interaction events such as data selection, cursor tracking, and GIS spatial feature events.

Application adapters typically check out a Universal Application Adapter (UAA) license when they connect to the OpenSpirit runtime. UAA licenses are checked out per-concurrent user for a given application type. Application adapters may also require a license from the

software company that developed and sells the application adapter. Check with your application adapter supplier regarding the license requirements of a particular adapter.

Information about application adapters that are available from OpenSpirit business partners can be found in the OpenSpirit section of the TIBCO web site.

## Data Connector

A software component that publishes a data store to the OpenSpirit runtime is called a *data connector*. Publishing a data store to the OpenSpirit runtime makes its data available to OpenSpirit enabled applications. Applications can query, create, modify, and delete data residing in the data store.

Currently all OpenSpirit data connectors are developed by TIBCO. OpenSpirit data connectors are licensed by data store type on a per-concurrent user basis. See the Data Source Configuration Tool section of the OpenSpirit Desktop help document for information about the data stores that are supported by OpenSpirit data connectors.

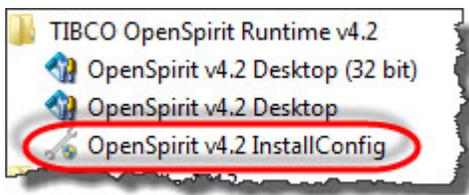
## OpenSpirit Tools

OpenSpirit tools are software components included in the OpenSpirit runtime. There are also some optional OpenSpirit tools that are purchased separately and installed into the OpenSpirit runtime. The OpenSpirit tools are accessed from the OpenSpirit Desktop and are organized into three categories; administrator tools, data manager tools, and tools used in a variety of work flows that have been grouped into a category called data browsing tools. Refer to the OpenSpirit Desktop help guide for a list of the available OpenSpirit tools.

The next section of this guide introduces additional OpenSpirit concepts that are fundamental to how OpenSpirit software is installed and configured.

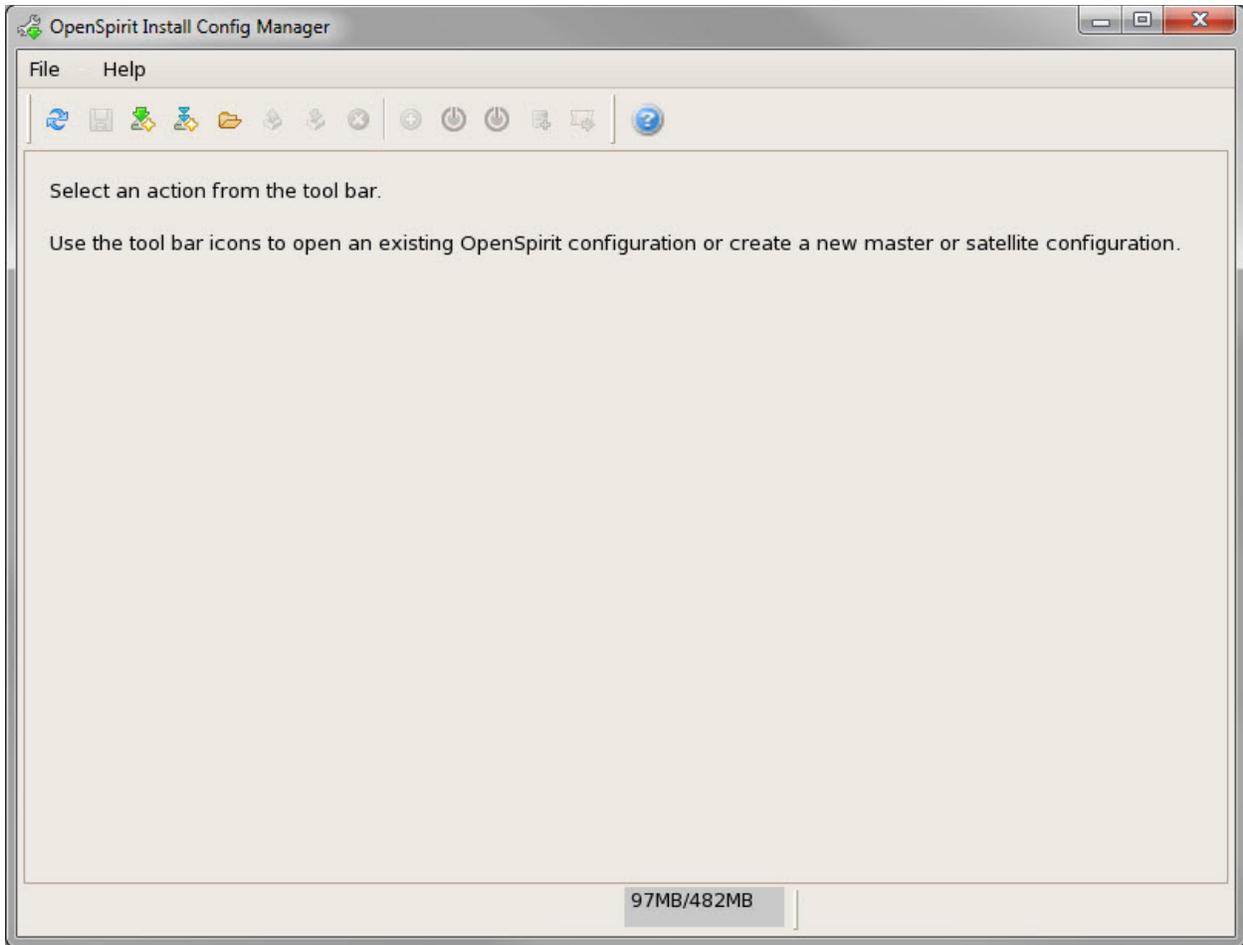
## Starting the Install Config Manager

The Install Config Manager tool is automatically started at the end of an OpenSpirit software installation. It can also be started any time from a completed OpenSpirit software installation. The Install Config Manager is started on Linux by running the *installconfig* script found in the *bin* directory of the OpenSpirit software installation. The Install Config Manager is started on Windows by selecting the Install Config option created in the Windows start menu.



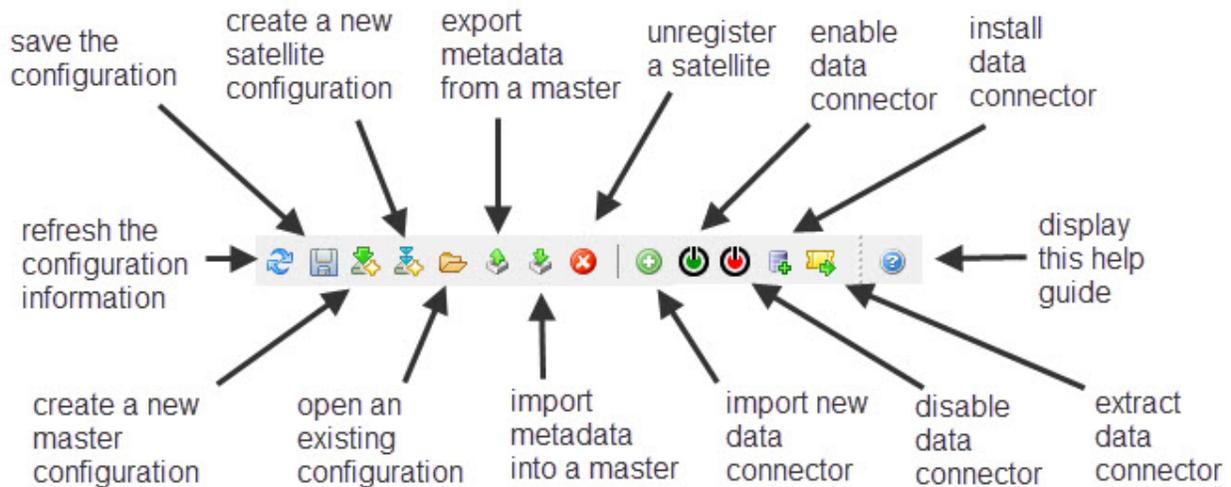
 The User Account Control Settings of your Windows account may require you to run the Install Config Manager as administrator in order for it to have permissions to create and write to the files in the config directory. Right click on the Install Config Manager's Start Menu entry and choose the *Run as administrator* option.

The Install Config Manager has an appearance that is quite similar to the OpenSpirit Desktop. It provides a tool bar that contains icons for each action that can be performed. Three actions can be performed when the Install Config Manager is started. You can create a new master configuration, create a new satellite configuration, or open a previously created master or satellite configuration. The following sections of this guide describe these actions in detail.



# Install Config Manager Tool Bar

The Install Config Manager tool bar contains buttons used to create and manage OpenSpirit master and satellite configurations, and tools to manage data connectors. These actions are described below.



## Refresh Button

The refresh tool bar button  will refresh the currently open master or satellite configuration by re-reading the information from the configuration's *config.properties* file and from the metadata repository if it is a master installation. Any unsaved changes will be lost when a refresh is performed.

## Save Button

The save tool bar button  will save a new configuration that is being created or it will save changes to an existing configuration that has been modified. The save button is not enabled until all required information has been entered when creating a new configuration and it is not enabled when no changes have been made to an existing configuration that has been opened.

## Create Master Button

The create master button  will open a new master configuration form. The Configuring a Master Installation section of this guide describes the master configuration form.

## Create Satellite Button

The create satellite button  will open a new satellite configuration form. The Configuring a Satellite Installation section of this guide describes the satellite configuration form.

## Open Button

The open button  behaves differently on Windows than it does on Linux and Solaris. A config directory selection window appears when the open button is pressed and Install Config Manager is running on Linux or Solaris. Use the selection window to select an existing master or satellite config directory. A master or satellite configuration form will open to display the selected configuration. The forms are described in the Configuring a Master Installation and Configuring a Satellite Installation section of this guide.

The config folder is in a fixed location on Windows, so pressing the open button will either open the existing config folder, or it will display an error informing you that a configuration does not exist. The config folder location on Windows is

```
%ProgramData%\OpenSpirit\v#.#
```

where the "#.#" component of the folder path is the major and minor version number of the OpenSpirit Runtime you are using.



Individual users can manually create a config folder in `%LocalAppData%\OpenSpirit\v#.#` which will override the configuration under `%ProgramData%`.

## Export Metadata Button

The export button  is enabled when a master configuration has been opened. This button is used to export some of the information that is stored in the master installation's metadata repository. The Exporting\_Metadata section of this guide describes metadata export.

## Import Metadata Button

The import button  is enabled when a master configuration has been opened and *the Shared Services are not running*. This button is used to import information from another master installation into the currently opened master installation's metadata repository. The Importing Metadata section of this guide describes metadata import.

## Unregister Satellite Button

The unregister satellite button  is used to remove satellite installations that have been registered with a master. The Satellite Management section of this guide explains registering and unregistering satellites.

## Import Data Connector Button

The import data connector button  is used to import new versions of a data connector or to import entirely new data connectors into the currently opened master installation's metadata repository. The Importing Data Connectors section of this guide describes data connector importing.

## Enable Data Connector Button

The enable data connector button  is used to re-enable a previously disabled data connector. The Disabling Data Connectors section of this guide describes data connector enabling and disabling.

## Disable Data Connector Button

The disable data connector button  is used to disable a data connector. The Disabling Data Connectors section of this guide describes data connector enabling and disabling.

## Install Data Connector Button

The install data connector button  is used to extract the binary executable files of a data connector from the metadata repository and install the files into the OpenSpirit installation that the Install Config Manager tool is being run from. The Installing Data Connectors section of this guide describes data connector installation.

## Extract Data Connector Button

The extract data connector button  is used to extract the binary executable files of a data connector from the metadata repository and put them in a ZIP file that can then be used to install the data connector binaries manually. The Extracting Data Connectors section of this guide describes data connector extraction.

## Help Button

The help button  is used to open this help guide.

# Master Data Connector Management

The Data Connectors tab is used to manage the OpenSpirit data connectors available in your master installation.

## Data Connector Overview

Data connectors are software components that publish a data store to the OpenSpirit runtime. Publishing a data store to the OpenSpirit runtime makes its data available to OpenSpirit enabled applications. Applications can query, create, modify, and delete data residing in the data store.

A data connector has a data source type, a data source version and a release version. The data source type indicates the type of data store the data connector can publish (e.g. OpenWorks, GeoFrame, PPD, etc.). The data source version indicates the version of data store the data connector can publish. The release version is product version number of the OpenSpirit data connector product.

Data connectors are composed of metadata, such as data model information, unit catalogs, reference value mappings, and other information needed to publish a data store to the OpenSpirit framework. Data connectors also contain binary executable files for each operating system platform that data connector processes can be run on. The metadata and binary executable files are stored in the OpenSpirit metadata repository in the OpenSpirit master installation. The binary files must also be installed into each OpenSpirit master installation and satellite installation that will be used to run data connector processes.

The OpenSpirit Runtime is pre-populated with current versions of all OpenSpirit data connectors that are available at the time of the OpenSpirit Runtime product release. New data connectors and updates to existing data connectors may be released after an OpenSpirit Runtime is released. The new data connector releases can be imported into your OpenSpirit Runtime's master installation and managed using the Data Connectors tab.

## Data Connectors Tab

The Data Connectors tab can be used to enable or disable data connectors, import new data connectors, and install data connector executable files into an OpenSpirit installation.

Enabled	Installed	Data Source Type	Data Source Version	Release version	Installed Version	Supported Platforms
		EPOS	4	2.0.0.209		Linux
		Finder	9	2.0.0.208		SunOS
		GeoFrame	2012	2.0.0.207		Linux
		GeoFrame	4	2.0.0.207		Linux
		Kingdom	2015	2.1.0.219	2.1.0.219	Windows
		Kingdom	8	2.1.0.219	2.1.0.219	Windows
		OpenWorks	R5000	2.0.0.205		Linux
		PPDM	3.7	2.0.0.205	2.0.0.205	Any
		PPDM	3.8	2.0.0.205	2.0.0.205	Any
		Petra	3	2.0.0.207	2.0.0.207	Windows
		Recall	5.3	2.0.0.200		Linux
		Recall	5.4	2.0.0.200		Linux
		SDE	9	2.0.0.206	2.0.0.206	Any
		Segy	1	2.0.0.210	2.0.0.205	Any
		Studio	2013	3.2.0.210	3.2.0.210	Windows
		Studio	2014	3.2.0.210	3.2.0.210	Windows

## Importing Data Connectors

New releases of an OpenSpirit data connector are loaded into an OpenSpirit master installation's metadata repository using the **import data connector** button . Clicking on this button opens a file chooser window that can be used to select an OpenSpirit data connector package file. Data connector package files have a file name extension of *.osp\_pkg*. Selecting a package file loads the data connector's metadata and executable files into the metadata repository. It will then appear in the data connector list as a new entry or as a new release version for a previous entry.



OpenSpirit data connector package files are obtained from the TIBCO software download site for each OpenSpirit data connector product.

Data connectors must then be installed into each satellite installation and master installation that you wish to use to run data connector processes for that data connector type.



Importing a new version of an existing data connector updates the OpenSpirit master installation's metadata repository. The metadata update cannot be reverted. You should backup your master installation's metadata repository prior to importing a new version of an existing data connector. The metadata repository can be backed up by shutting down the OpenSpirit master installation's shared services and then creating a backup of the master installation's database directory.



Importing a new version of an existing data connector updates the OpenSpirit master installation's metadata repository. Make sure no users are running data connectors during the data connector import.



Be sure to install the executable files after importing the data connector. The executable files should be installed into all OpenSpirit installations that are on an operating system platform that can be used to run the data connector. This includes the master installation. See the *Installing Data Connectors* section below for information about installing data connector executable files.

## Installing Data Connectors

Data connector executable files must be installed into each satellite installation and master installation that you wish to run data connector processes from after importing a new data connector into the master installation's metadata repository. Data connectors that have been upgraded to a newer version but not yet installed in the OpenSpirit installation appear with a caution icon  in the Installed column. The caution icon indicates the executable files in the OpenSpirit installation are out of date with respect to the data connector release that was imported into the metadata repository. New data connector types that have been imported but have not been installed appear with no icon in the Installed column.

Select the data connector to install and click on the install icon . This will install the executable files for the selected data connector into the OpenSpirit installation that the Install Config Manager tool was started from.



Make sure no OpenSpirit Desktop, application, or data connector is running out of the OpenSpirit installation prior to installing a data connector. Otherwise there is risk that some files will be locked and therefore cannot be overwritten by the new executable files.



No facility is provided to un-install a data connector. Your OpenSpirit installation must be re-installed in order to revert a data connector installation.

## Disabling Data Connectors

Disabling a data connector causes that data source type and version to no longer appear in any OpenSpirit tool or application. Companies may wish to disable data connectors for data store types that are not used by the company. Select one or more data connectors and click on the disable icon  in the tool bar to disable the selected data connectors. Disabled data connectors can be re-enabled by selecting one or more disabled data connector and clicking on the enable icon  in the tool bar.

## Extracting Data Connectors

The data connector extraction feature is provided to enable data connector executable files to be manually installed. Manual installation of data connectors may be required by companies that control how software is deployed into an existing OpenSpirit installation.

Select the data connector to be extracted and click on the extract icon . This will open a file folder selection window. Select a file folder that you want the extracted data connector zip files to be placed in. A zip file will be created for each operating system platform supported by the data connector. The data connector can then be manually installed by unzipping the files into the top level folder of your OpenSpirit installations.

# Configuring EPOS 4 Data Sources

Selecting the option to create a new EPOS 4 data source will display the following panel on the right hand side of the Data Source Configuration tool.

**General Information (EPOS\_42)**

Data Source Name

Data Source Description

---

**EPOS Information (EPOS\_42)**

EPOS Base Directory   

PNS Host  

EPOS User  

Use EPOS projects

Use default project coordinate system

---

**Projects, Coordinate Systems and Datum Shifts (EPOS\_42)**

Project Name	Type	Coordinate System	EPSG Code - Datum S...	Depth Unit	Time Unit
--------------	------	-------------------	------------------------	------------	-----------

Project List Last Updated Date

---

**EPOS Advanced Properties**

Skip well status mapping

---

**Status Information**

Following are descriptions of the values and some guidelines for filling out this panel. :

Name	Description	Hints & Finding Values
Data Source Name	Free form name for data source	Names may NOT contain blanks, the period character (“.”), or other special characters that are not allowed in UNIX file names. Also, the data source name must be unique within the same OpenSpirit installation.
EPOS Base Directory	Directory location of your EPOS 4 installation	Your system administrator should have this information.  The base directory path for EPOS 2011.1 should end with "Epos41".
PNS Host	Required field that enables entering a specific PNS host to connect to.	Connect to EPOS projects or studies from specific host.
EPOS User	Required field that specifies the EPOS user to use when connecting to the EPOS project.	Only the EPOS projects or studies that this EPOS user has access to will be listed (in the 'Projects, Coordinate Systems and Datum Shifts' section).  The user that is configuring EPOS data sources must be a member of the EPOS User being configured. It is therefore recommended that you start the OpenSpirit Desktop using a UNIX user id that is used to administer EPOS projects. You need to toggle to administrator mode (Tools -> Administrator -> Toggle Admin Mode) if you are not the OpenSpirit administrator.  A special value can be used if you are just using GeoLog and do not have any EPOS users defined. The special value is OSP_GEOLOG_MODE. Type this value into the EPOS User field to indicate that no EPOS user should be used. The Use EPOS projects option must not be selected when using this special value.
Use EPOS projects	Check this option to return EPOS Projects only. Do not	Most Paradigm applications (such as GeoDepth) only use

Name	Description	Hints & Finding Values
	<p>select this option if you want to be presented with a list of EPOS studies (for WellDB, Survey 2D, Survey 3D).</p>	<p>EPOS projects. The Paradigm Geolog program is only capable of using a single Well Database at a time and it does not work with EPOS projects.</p> <p>For example, if you use the OpenSpirit Data Selector and connect to a project that belongs to a data source that was configured and this option is not checked you will see the wells, survey 2d, and survey 3d data from a single study only. If you connect to a project that belongs to a data source and this option is checked you will see wells, survey 2d, and survey 3d data from all the studies that belong to the EPOS project.</p>
<p>Use default project coordinate system</p>	<p>Checking this option will cause OpenSpirit to assume that wells that are not tagged with a coordinate system in EPOS are actually in the coordinate system that is assigned to the project using this data source configuration tool.</p>	<p>EPOS does not require records (e.g. wells) to be assigned a coordinate reference system. Checking this option instructs OpenSpirit to assume records that are not assigned a coordinate system in EPOS are actually in the coordinate system that is selected for the EPOS project.</p> <p>Records without a coordinate system will be returned in a local coordinate system if this option is not checked. Records tagged with a local system are considered to be in an unknown coordinate system and cannot be converted to any other coordinate system, not even to WGS84.</p>
<p><b>Projects, Coordinate Systems and Datum Shifts Section</b></p>		
<p> Projects that do not have a recognized coordinate system or datum shift appear with a red background .</p>		
<p>Refresh Project List</p>	<p>Pressing this button will run a program that scans the EPOS database projects and populates the OpenSpirit data source's project catalog. EPOS projects are not available in OpenSpirit until they are cataloged by running this project scan utility.</p>	<p>A command line utility is also provided for running the project catalog scan. The command line utility is</p> <pre>\$OSP_HOME/plugins/EPOS_4/runEPOSCatalogUpdater.sh.</pre>

Name	Description	Hints & Finding Values
		<p>It takes a single command line argument which is the name of the EPOS data source to scan.</p> <p>You still should run the configuration tool to assign coordinate systems to the EPOS projects. Projects cataloged using the command line utility will not have any datum shift information and might not have any assigned coordinate system.</p> <p> The Refresh Project List button is only enabled after the data source has been saved. If you make any changes (e.g. modify the value for the PNS Host, EPOS User, etc.) after the data source was saved then the Refresh Project List button becomes disabled.</p>
Choose Datum Shift	Select one or more projects in the project list and press this button to select a datum shift and projected coordinate system to assign to the project.	<p>You must select a datum shift to WGS84 if the coordinate system does not have WGS84 datum. The datum shift to WGS84 information is used by OpenSpirit to convert spatial data to another datum.</p> <p>You must also select a projected coordinate system from the list of predefined EPSG coordinate systems if the Coordinate System field is blank.</p>
Coordinate system details	Select a single project and press this button to see the details of the coordinate system that has been assigned to the project.	Shows all of the EPSG parameters that fully describe the assigned coordinate system.
Project Name	Display only field that shows the names of the EPOS projects that have been cataloged with OpenSpirit.	EPOS WELLDB, SURVEY2D and SURVEY3D studies are treated as EPOS projects in OpenSpirit if the Use EPOS projects option has not been checked.
Type	Display only field that shows the type of EPOS project.	The value of this field is 'PROJECT' if the Use EPOS projects option is selected. The value will be either 'WELLDB', 'SURVEY2D' or 'SURVEY3D' depending of the type of study if

Name	Description	Hints & Finding Values
		the Use EPOS projects option was not selected.
Coordinate System	Display only field that shows the name of the coordinate system that has been assigned to the EPOS project.	<p>Press the <b>Coordinate System Details</b> button to see a complete description of the coordinate system. Press the <b>Choose Datum Shift</b> button to change the coordinate system assigned to the project.</p> <p>The program that scans the EPOS database also scans for coordinate system information. The coordinate system information is listed in the Coordinate System column if the EPOS coordinate system was recognized. OpenSpirit recognizes all pre-defined EPSG based coordinate systems. It is recommended to keep the coordinate system returned from scanning the EPOS database since it corresponds to the coordinate system used for the project in EPOS.</p>
EPSG Code - Datum Shift to WGS84	Display only field that shows the EPSG assigned integer code that identifies the datum shift to WGS84 that is to be used when transforming spatial data between the EPOS project coordinate system and coordinate systems using a different datum.	<p>Press the <b>Choose Datum Shift</b> button and press the <b>Details</b> button next to the selected transform to see the details of the transform.</p> <p>It is important to assign a datum shift to WGS84 for each project since OpenSpirit cannot transform spatial data between the EPOS project coordinate system and coordinate systems using a different datum if this is missing.</p>
Depth Unit	Display only field that shows the depth unit that was chosen when the coordinate system was selected.	<p>Press the <b>Choose Datum Shift</b> button to change the depth unit assigned to the project. This information is used by OpenSpirit to tag the Z component of any 3D spatial data that is returned by OpenSpirit (e.g. well bore paths).</p> <p>The program that scans the EPOS database also scans for the type of unit system (metric or imperial) defined for the</p>

Name	Description	Hints & Finding Values
		EPOS project. It is recommended to keep this value since it represents the unit system used in EPOS for the project.
Time Unit	Display only field that shows the time unit that was chosen when the coordinate system was selected.	Press the <b>Choose Datum Shift</b> button to change the time unit assigned to the project. This information is used by OpenSpirit to tag the Z component of any 3D spatial data that is returned by OpenSpirit (e.g. well bore paths).
Project List Last Updated Date	Display only field that shows the date that the Refresh Project List option was last run.	This is a display only field that indicates when the list of projects was last updated.
<b>EPOS Advanced Properties Section</b>		
Skip well status mapping	Selecting this option causes well status values to be passed through as is on both read and write rather than converting them to the OpenSpirit canonical status values.	Enabling this option will likely prevent successful copying of well status information when using OpenSpirit Copy Manager to copy data from one data store type to a different data store type. Copying between dissimilar data store types usually requires well status information to be mapped from the source data store's well status values to the OpenSpirit well status values and then to the target data store's allowable values. Disabling this mapping may cause copied wells to have an UNKNOWN status. The skip option is typically used when importing well status information from a data store to an application such as Petrel. Select this option if you want to preserve the original well status value rather than using the OpenSpirit canonical well status values.