# TIBCO Spotfire® Clinical 4.0.1 User's Manual



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#### 1 Introduction

TIBCO Spotfire Clinical allows you to easily connect to Oracle Clinical databases and open data from one or more clinical studies in TIBCO Spotfire. The functionality is closely integrated with the Add Data Tables tool of TIBCO Spotfire. You can also replace Oracle Clinical data using a separate tool which allows you to match new views to previously added ones.

These additional help topics provide a description of the functionality in TIBCO Spotfire Clinical only. It is important to note that these topics do not cover any further analysis done in TIBCO Spotfire. See the main TIBCO Spotfire help topics for more information about how you can analyze your data.

To get access to the Add Oracle Clinical Data tools, you need to have the SpotfireClinical.spk deployed on your TIBCO Spotfire Server, and the license feature Open Oracle Clinical Data under TIBCO Spotfire Clinical must be enabled. See the TIBCO Spotfire Clinical - Installation and Configuration manual for more information.

### 2 How to Use TIBCO Spotfire Clinical

#### 2.1 How to Add Oracle Clinical Data to the Analysis

With TIBCO Spotfire Clinical, you can bring together data from multiple views, multiple studies or even multiple Oracle Clinical data sources into one analysis. Each Oracle Clinical view is added as a data table in your analysis, and once relations have been defined between the data tables you can set up any number of linked visualizations showing your data.

#### ► To add data from Oracle Clinical to your analysis:

1. Select File > Add Data Tables....

Comment: You can start either with an empty analysis or with previously loaded data. Response: The Add Data Tables dialog is displayed. See the TIBCO Spotfire User's Guide for more information.

2. Select Add > Oracle Clinical Data....

Comment: You can also add data from other sources in the same operation.

Response: If more than one Oracle Clinical data source is available, the Add Oracle Clinical Data - Select Data Source dialog is displayed, otherwise go to step 4 (or 5 if no user authentication is required).

- 3. **Select** the **data source** to connect to from the drop-down list and click **OK**. Response: If the data source has been set up to use user authentication, the Data Source Login dialog is displayed. Otherwise, go to step 5.
- Type your Username and Password for the selected data source and click OK.
   Response: The Add Oracle Clinical Data Select Study dialog is displayed.
- Click to select a snapshot from a study in the tree view, then click Next >.
   Comment: You can only select one snapshot at a time, but you can run the wizard multiple times if desired.
  - Response: The Add Oracle Clinical Data Select Views dialog is displayed.
- 6. Click to select one or more views in the **Available views** list, then click **Add** > to send them to the Selected views list.
- Click Next >.

Comment: If all columns from the selected views should be added, you can click Finish directly in this step.

Response: The Add Oracle Clinical Data - Select Columns dialog is displayed.

- 8. If not all columns should be imported, select the ones to exclude for each **View** in the **Selected columns** list and click **< Remove**.
- When the selected columns from all views of interest have been modified, click Finish.

Response: The selected views are added to the Data tables field in the Add Data Tables dialog.

10. If desired, click each Oracle Clinical view to edit its name or to add transformation steps for that particular data table.

Comment: Each view will be interpreted as a separate data table when added to TIBCO Spotfire. For more information about transformations, see Transforming Data in the TIBCO Spotfire User's Guide.

Response: Any name changes and added transformation steps will be reflected in the Data tables field.

11. If desired, click **Manage Relations...** to add relations between the different data tables in your analysis.

Comment: You can always add relations at a later stage through the Data Table Properties dialog. For more information about relations, see To define a new relation in the topic How to Insert Multiple Data Tables into the Analysis in the TIBCO Spotfire User's Guide.

#### 12. Click OK.

Response: The selected views are added to the analysis as new data tables.

Once the data are all in the analysis, use the standard functionality of TIBCO Spotfire to set up visualizations, make calculations and comparisons, etc.

#### 2.2 How to Replace Oracle Clinical Data

You can replace Oracle Clinical data using a separate tool which is very similar to the Add Oracle Clinical Data Wizard.

#### ► To replace Oracle Clinical data:

1. Select File > Replace Oracle Clinical Data....

Response: If more than one Oracle Clinical study is available in the analysis, the Replace Oracle Clinical Data – Replace Study dialog is displayed, otherwise go to step 3 (or 4 if only one data source is available).

- 2. **Select** the **study to replace** from the drop-down list and click **OK**.
  - Response: If more than one Oracle Clinical data source is available, the Replace Oracle Clinical Data Select New Data Source dialog is displayed, otherwise go to step 4 (or 5 if no user authentication is required).
- Select the data source to connect to from the drop-down list and click OK.
   Response: If the data source has been set up to use user authentication, the Data Source Login dialog is displayed. Otherwise, go to step 5.
- Type your Username and Password for the selected data source and click OK.
   Response: The Details on Replace Oracle Clinical Data Select New Study dialog is displayed.
- Click to select a snapshot from a study in the tree view, then click Next >.
   Comment: You can only select one snapshot at a time, but you can run the wizard multiple times if desired.
  - Response: The Details on Replace Oracle Clinical Data Select New Views dialog is displayed.
- 6. Click to select one or more views in the **Available views** list, then click **Add** > to send them to the Selected views list.
- 7. Click **Next** >.
  - Response: The Details on Replace Oracle Clinical Data Select New Columns dialog is displayed.
- 8. If not all columns should be imported, select the ones to exclude for each **View** in the **Selected columns** list and click **Remove**.
- When the selected columns from all views of interest have been modified, click Finish.
  - Response: The Replace Oracle Clinical Data Match Views dialog is displayed.
- 10. Check that the new views replace the old views in your preferred way; if they do not, select a view under Oracle Clinical views and change the drop-down list under Selected view above replaces to a different view.
- 11. If columns cannot be matched automatically you may also encounter one or more Match Columns dialogs where you can manually match columns for each data table you replace. Click **OK** in the dialog when the matching is done.

Comment: Each view will be interpreted as a separate data table when added to TIBCO Spotfire.

Response: The selected views are added to the analysis as new data tables.

#### 2.3 How to Create Reports from an Analysis

Once you have set up the interesting visualizations and analysis views of your Oracle Clinical data, you may want to distribute the analysis to your colleagues. There are several options available:

#### ▶ Publish the analysis to the library for Web Player users:

When an analysis is published to the library, it will become available for other users of TIBCO Spotfire. Use this option when others need to be able to modify the analysis using filtering and marking, or more complex analyses.

- 1. Select **File > Save As > Library Item...**.
- 2. Select a suitable location in the library by browsing the folders or creating new folders.
- Since the access to the analysis is determined by the Folder Permissions, you may need to edit the permissions for your folder.
- 4. Type a suitable **Name**.
- 5. Click Next >.
- If desired, edit the **Description** and **Keywords** for the analysis.
   Comment: This information may help other people locate your analysis in the library.
- 7. Click Next >.
- 8. If desired, edit the settings for the data tables in the analysis.

Comment: To get access to the latest data and to ensure that other users of the analysis have to provide their Oracle Clinical credentials, the data sources should be linked to the analysis rather than embedded. If you still want to embed data in the analysis, it is vital to ensure that data remains secure through folder permissions set in the library or some other file system security.

9. Click **Finish**.

Response: A dialog informing about the location of the analysis is displayed.

#### Export the analysis to a PDF, a PowerPoint presentation or to HTML:

Use this option to create static reports with fixed images of your visualizations.

- Select File > Export > To PDF... (or To Microsoft® PowerPoint®... or To HTML...).
   Response: The Export to PDF dialog is displayed.
- 2. Adjust to your preferred settings in the dialog.
- 3. Click Export.

Response: If you selected the check box "Open in PDF reader after export" the resulting PDF document will be opened in your default PDF reader.

### 3 Details on Add Oracle Clinical Data

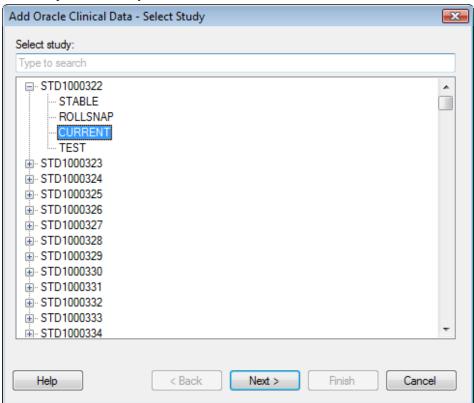
## 3.1 Details on Add Oracle Clinical Data - Select Data Source

This dialog is shown when you have access to more than one Oracle Clinical data source. The data source access is determined by the access rights settings for each data source. This is specified in the library when setting up the data source, or changed afterwards using the Library Administration tool.



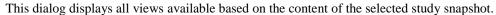
# 3.2 Details on Add Oracle Clinical Data - Select Study

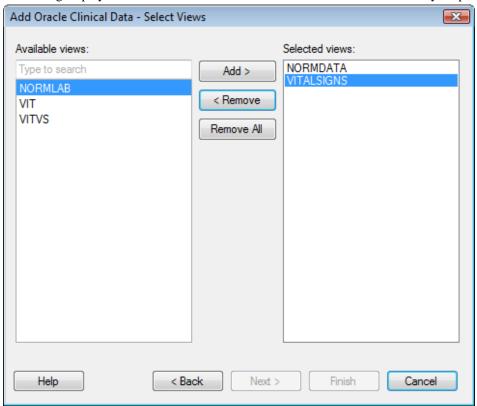
This dialog displays all studies available based on the content of the selected data source and the folder permissions of your user account.



Option	Description
Select study (Select study)	Browse the tree view and click to select a study snapshot of interest. Click the plus sign to expand and the minus sign to collapse the tree.

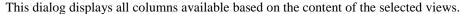
## 3.3 Details on Add Oracle Clinical Data - Select Views

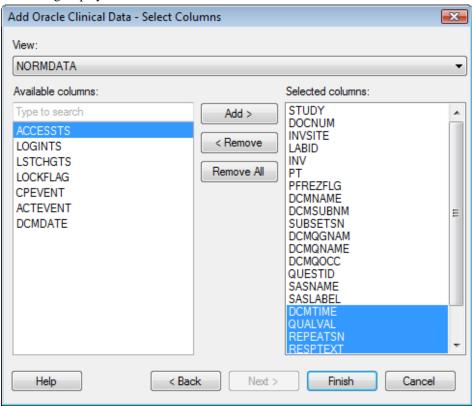




Option	Description
Available views (Available views)	Lists all views in the selected study that are available for loading into TIBCO Spotfire.
Add > (Add)	Adds the views selected in the Available views field to the Selected views field.
< Remove (Remove)	Removes the views selected in the Selected views field and sends them back to the Available views field.
Remove All (Remove All)	Removes all views from the Selected views field.
Selected views (Selected views)	Lists all views that have been selected to be added to your analysis.

## 3.4 Details on Add Oracle Clinical Data - Select Columns



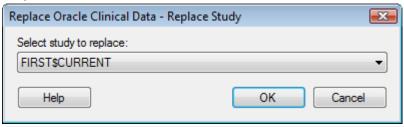


Option	Description
View (View)	Select the view for which to change the columns to retrieve. Use the drop-down list to modify the selected columns for all views where you do not need to load all columns. (All columns are selected per default for each view.)
Available columns (Available columns)	Lists all columns in the selected views that are available for loading into TIBCO Spotfire.
Add > (Add)	Adds the columns selected in the Available columns field to the Selected columns field.
< Remove (Remove)	Removes the columns selected in the Selected columns field and sends them back to the Available columns field.
Remove All (Remove All)	Removes all columns from the Selected columns field.
Selected columns (Selected columns)	Lists all columns that have been selected to be added to your analysis.

### 4 Details on Replace Oracle Clinical Data

## 4.1 Details on Replace Oracle Clinical Data - Replace Study

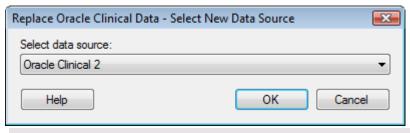
This dialog is shown when you have more than one Oracle Clinical study in your current analysis.



Option	Description
Select study to replace (Select study to replace)	Select the study to replace from the drop-down list. All data tables associated with the study selected here will be removed when the study is replaced, even those views that are not matched to a view in the new study.

### 4.2 Details on Replace Oracle Clinical Data - Select New Data Source

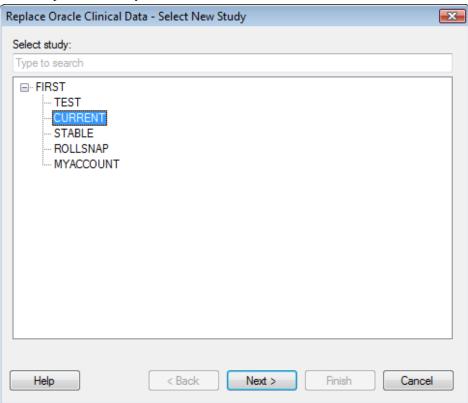
This dialog is shown when you have access to more than one Oracle Clinical data source. The data source access is determined by the access rights settings for each data source. This is specified in the library when setting up the data source, or changed afterwards using the Library Administration tool.



Option	Description
Select data source (Select data source)	Select the data source to connect to from the drop-down list.

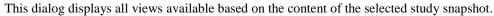
# 4.3 Details on Replace Oracle Clinical Data - Select New Study

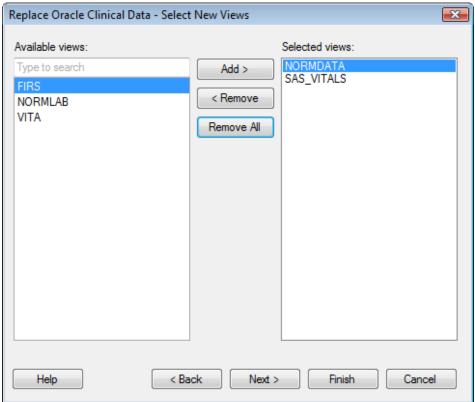
This dialog displays all studies available based on the content of the selected data source and the folder permissions of your user account.



Option	Description
Select study (Select study)	Browse the tree view and click to select a study snapshot of interest. Click the plus sign to expand and the minus sign to collapse the tree.

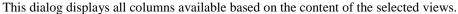
# 4.4 Details on Replace Oracle Clinical Data - Select New Views

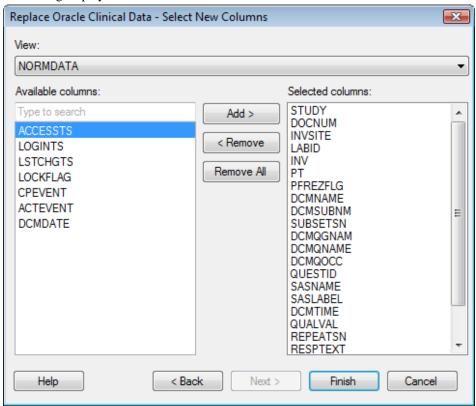




Option	Description
Available views (Available views)	Lists all views in the selected study that are available for loading into TIBCO Spotfire.
Add > (Add)	Adds the views selected in the Available views field to the Selected views field.
< Remove (Remove)	Removes the views selected in the Selected views field and sends them back to the Available views field.
Remove All (Remove All)	Removes all views from the Selected views field.
Selected views (Selected views)	Lists all views that have been selected to be added to your analysis.

## 4.5 Details on Replace Oracle Clinical Data - Select New Columns

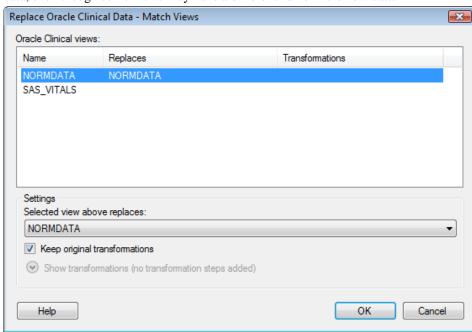




Option	Description
View (View)	Select the view for which to change the columns to retrieve. Use the drop-down list to modify the selected columns for all views where you do not need to load all columns. (All columns are selected per default for each view.)
Available columns (Available columns)	Lists all columns in the selected views that are available for loading into TIBCO Spotfire.
Add > (Add)	Adds the columns selected in the Available columns field to the Selected columns field.
< Remove (Remove)	Removes the columns selected in the Selected columns field and sends them back to the Available columns field.
Remove All (Remove All)	Removes all columns from the Selected columns field.
Selected columns (Selected columns)	Lists all columns that have been selected to be added to your analysis.

## 4.6 Details on Replace Oracle Clinical Data - Match Views

This dialog allows you to match views from the new Oracle Clinical data to views from the old data, even though some views may have a different name in the new data.



Option	Description
Oracle Clinical views (Oracle Clinical views)	Lists all available views in the new study along with information about which view it will replace in the old study and any transformations that will be applied to each view.
Settings (Settings)	Displays settings for the new view selected above.
Selected view above replaces ( Selected view above replaces)	Select the view in the old study that should be replaced by the selected new view.  Only those views not already chosen for replacement are available.  Select (None) or another view to make a previously selected view available.
Keep original transformations (Keep original transformations)	Select this check box to apply the same transformation to the new view as had been previously specified for the old view that is to be replaced.
Show/Hide transformations (Show/Hide transformations)	Expands the dialog and allows you to apply transformations on the data table you want to add. For more information, see Details on Show Transformations in the main TIBCO Spotfire help.

#### 5 Automation Services

### 5.1 Using Automation Services to Replace Oracle Clinical Data

If you have access to Automation Services you have the possibility to create automated jobs that include a replace Oracle Clinical data step. Select **Tools > Automation Services Job Builder** to create a new job.

### ► Example of an Automation Services job replacing Oracle Clinical data:

- 1. A Set Data Source Credentials task to log into your Oracle Clinical data source.
- 2. An **Open Analysis from Library** task to open the analysis to use as a template.
- 3. A **Set Data Source Credentials** task (needed if the new study is located on a different database).
- 4. A **Replace Oracle Clinical Data** task to replace the data.
- 5. A Save Analysis to Library task to save the new, updated analysis.

**Note:** You cannot match views or columns when using Automation Services to replace data; nor is it possible to change the transformation for a view. For the best result, the views and columns in the new data should match those in the current data completely. If columns and views do not match you may need to make modifications to some visualizations manually.

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