Fraser Stream Integration

Application Data Sheet

Transformation Settings

1 INTRODUCTION

Fraser Stream Integration (FSI) is a powerful data transformation tool that rapidly transforms structured ASCII text reports and delimited files into various file formats.

FSI can convert any text report and:

- Translate report data into Excel, PDF, Word and HTML
- Deposit information directly into a database (Access, SQL, Oracle)
- Publish information onto the web as HTML or XML with stylesheets
- Output to XML format for integration with other applications or to share with business partners

Regardless of what the end use will be, the backbone of Fraser Stream technology is the method in which text reports are translated into the aforementioned formats. **The *TRANSFORMATION SETTINGS* define how each type of report is to be processed and converted.**

Mapping transformation settings takes a matter of a few minutes and needs only to be done once. Once the settings are saved, the text report can be converted at the click of a button or scheduled to be processed at any predefined interval.

Transformation Settings map information from the text report's header, detail, and footer sections, then translate this information into a single record which in turn can be displayed as a single row of an Excel spreadsheet or exported as unique record into a database.

The following example depicts a typical text report with the subsequent FSI output to Excel:

Test Report 0000.prn - Notepad

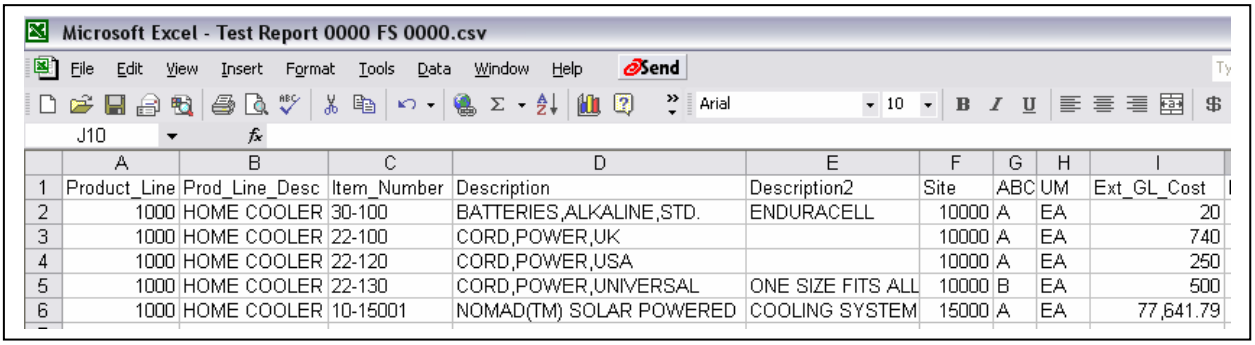
File Edit Format View Help Send

```
                                        Test Report 0000


Product Line: 1000   HOME COOLER PRODUCTS

Item Number         Description              Site     ABC  UM     Ext GL Cost
------------------- ------------------------ -------- ---  -- ---------------
30-100              BATTERIES,ALKALINE,STD.  10000    A    EA           20.00 *
                    ENDURACELL
22-100              CORD,POWER,UK            10000    A    EA          740.00 *
22-120              CORD,POWER,USA           10000    A    EA          250.00 *
22-130              CORD,POWER,UNIVERSAL     10000    B    EA          500.00 *
                    ONE SIZE FITS ALL
10-15001            NOMAD(TM) SOLAR POWERED  15000    A    EA       77,641.79 *
                    COOLING SYSTEM
                                                                ---------------
                                PRODUCT LINE TOTAL                   79,151.79
```

The same report in Excel format:



	A	B	C	D	E	F	G	H	I
1	Product_Line	Prod_Line_Desc	Item_Number	Description	Description2	Site	ABC	UM	Ext_GL_Cost
2	1000	HOME COOLER	30-100	BATTERIES,ALKALINE,STD.	ENDURACELL	10000	A	EA	20
3	1000	HOME COOLER	22-100	CORD,POWER,UK		10000	A	EA	740
4	1000	HOME COOLER	22-120	CORD,POWER,USA		10000	A	EA	250
5	1000	HOME COOLER	22-130	CORD,POWER,UNIVERSAL	ONE SIZE FITS ALL	10000	B	EA	500
6	1000	HOME COOLER	10-15001	NOMAD(TM) SOLAR POWERED	COOLING SYSTEM	15000	A	EA	77,641.79

Fraser Stream Integration is easy to use, requires very little technical know-how, and costs a fraction of what is currently offered on the market today. This Microsoft Windows based tool can be used as a stand alone desktop application or run on a server as an enterprise level ETL (extract load transform) solution.

2 GETTING STARTED

Fraser Stream Software offers a free 30 day trial of Fraser Stream Integration. You may download this free version from the ***Downloads*** section of www.fraserstream.com.

Follow these steps to install the program:

2.1 Installation Requirements

1. Supported Operating Systems:
   Windows 2000, Windows 98, Windows ME, Windows NT, Windows Server 2003, Windows XP
2. Processor: Minimum133-MHz Intel Pentium-class processor
3. Memory: Minimum128 MB of RAM, 256 MB recommended

2.2 Fraser Stream Integration Installation

1. Go to: www.fraserstream.com/downloads
2. Click on Download Now For the software you want to install
3. Click Run to install the software
4. The software will be installed in the folder: ***.\Program Files\Fraser Stream\Fraser Stream Integration***
5. To Start Fraser Stream Integration: ***Start\All Programs\Fraser Stream Integration***

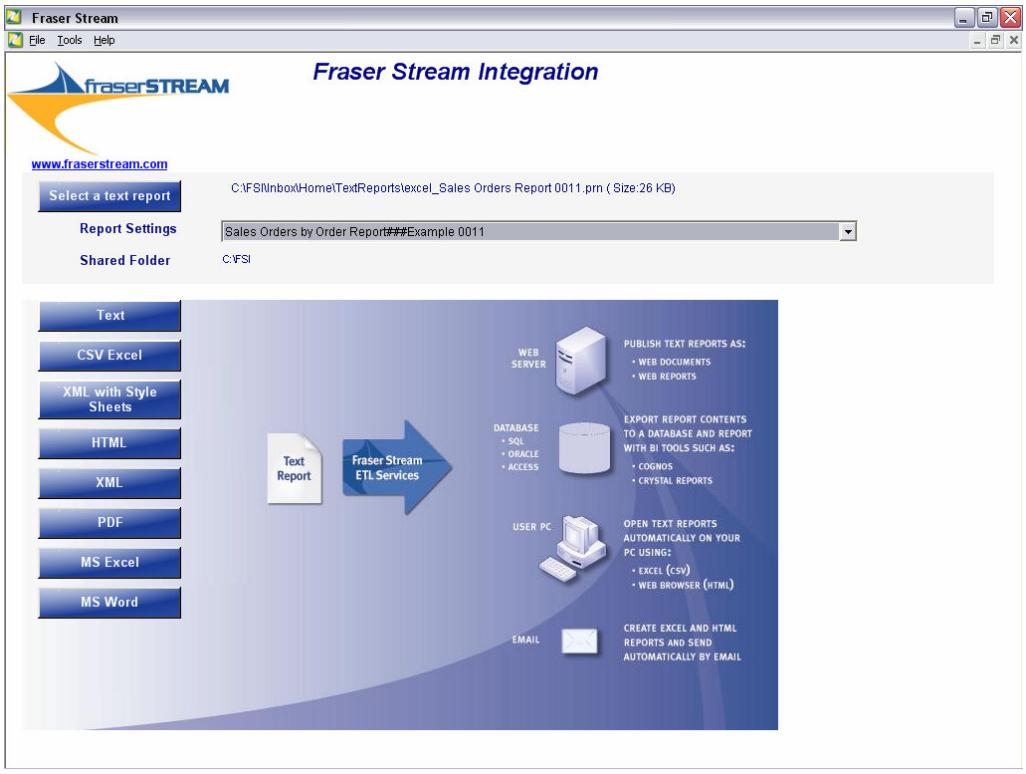
2.3 Main Menu

Transformation Settings must be mapped in order for FSI to work. Fortunately this process need only be done once. Open FSI and click on the ***'Select a text report'*** button to choose the text file you want to transform. (See screenshot on next page). Fraser Stream Integration will scan the text report and check to see if transformation settings have been mapped for this report in the past.

NOTE: FSI does not rely on the report name to determine if transformation settings exist. Instead, FSI looks at the structure of the report and identifies the precise positions of certain key characteristics such as the header, detail, and footer sections to determine if this file has been mapped before.

If a specific type of report has already been mapped, a transformation setting will appear in the drop down list (see screen shot). A report can have multiple transformation settings. For example one set may include each detail column i.e. price, quantity etc…A second set of settings may only capture the header section and the sales order number. Fraser Stream Integration will display all previously mapped settings. Select the settings you wish to use from the drop down list. If no settings exist, you will need to create them (Chapter 3)

Assuming transformation settings exist, simply select the settings from the drop down list and click on any of the output buttons to view the data in the different formats.



2.4 Examples

Fraser Stream Integration includes a few sample reports that have already been mapped. To view these reports:

1. Click on the **Select a Text Report** button
2. Select the folder: C:\Program Files\Fraser Stream\Fraser Stream Integration\TextReports
3. Select the text file: **Test Report 0001.prn**
   (Transformation settings will automatically appear in the drop down list)
4. Click on the **Text** button to view the report in its original format in Notepad
5. Click on the **CSV Excel** button to see the text report in Excel format. The application will extract report header, details line and footer information and display each record on a single Excel row
6. Click on the **HTML** button to see the text report in HTML format
7. Click on the **XML** button to see the text report in XML format
8. Click on the **XML with Style Sheets** button to open the XML file using a Style Sheet. You may customize the Style Sheet to display your company's logo, fonts, colors, background or any other HTML elements
9. The **PDF**, **MS Word** and **MS Excel** are created with Crystal Reports. Please see PDF Output chapter

3 Transformation Settings

Transformation settings only need to be created once. For the novice Fraser Stream Integration user, this process will take a matter of a few minutes. A single set of settings will specify which elements from the text report should be included in the output. You can create as many different transformation settings as you like for a single type of text report. FSR will retain these settings for future use.

The **key** to remember is that transformation settings use the precise position of certain report elements to define and translate the data in the report. As long as the structure of your report doesn't change, your reports can vary in size anywhere from a few bytes to hundreds of megabytes; they will still be transformed by the same set of transformation settings. If you use an entirely different report (structurally different), you will need to create a new set of transformation settings.

Example:
You may use a series of sales reports from your core ERP or legacy system for analysis purposes. One report may be a summary of your sales by region, the other a detailed report by sales person. In this scenario you would need two separate transformation settings as most likely these two reports differ considerably in structure. On the other hand, if you run the same detailed sales report by salesperson for two distinct groups of salespeople, the two reports will still be identical in structure. In this situation you can use the same transformation settings.

The following sections will take you step by step through the process of creating transformation settings for your text reports.

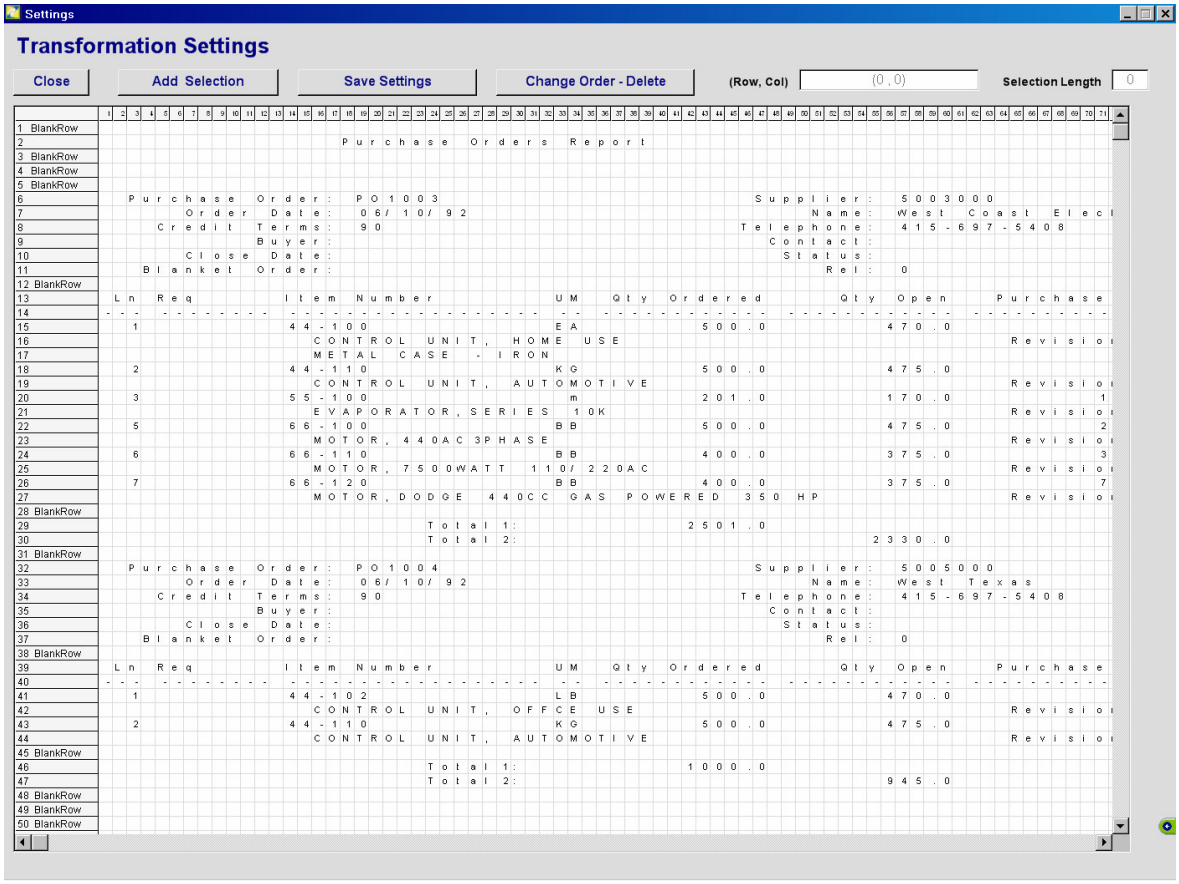
3.1 Mapping Text Report Transformation Settings

To map new transformation settings, open Fraser Stream Integration and click on the ***Select a text report*** button.

Select your text report. If transformation settings have already been mapped for this type of report they will appear listed in the drop down list. If none exist the drop down list will appear blank.

In the tools menu select **New Text Report Settings**.
NOTE: You can always modify existing settings by selecting **Change Text Report Settings** from the Tools menu (covered in section 3.3)

Fraser Stream Integration uses a grid coordinate system to read the text report. Each character (including spaces) of the report will be separated into the grid (see next screen shot).



Text reports typically follow a structure or logic. For example the space allocated to the header section has the same length throughout the text report. Similarly, individual columns span a limited area of each page. Report footers appear after certain indicators such as summary lines.

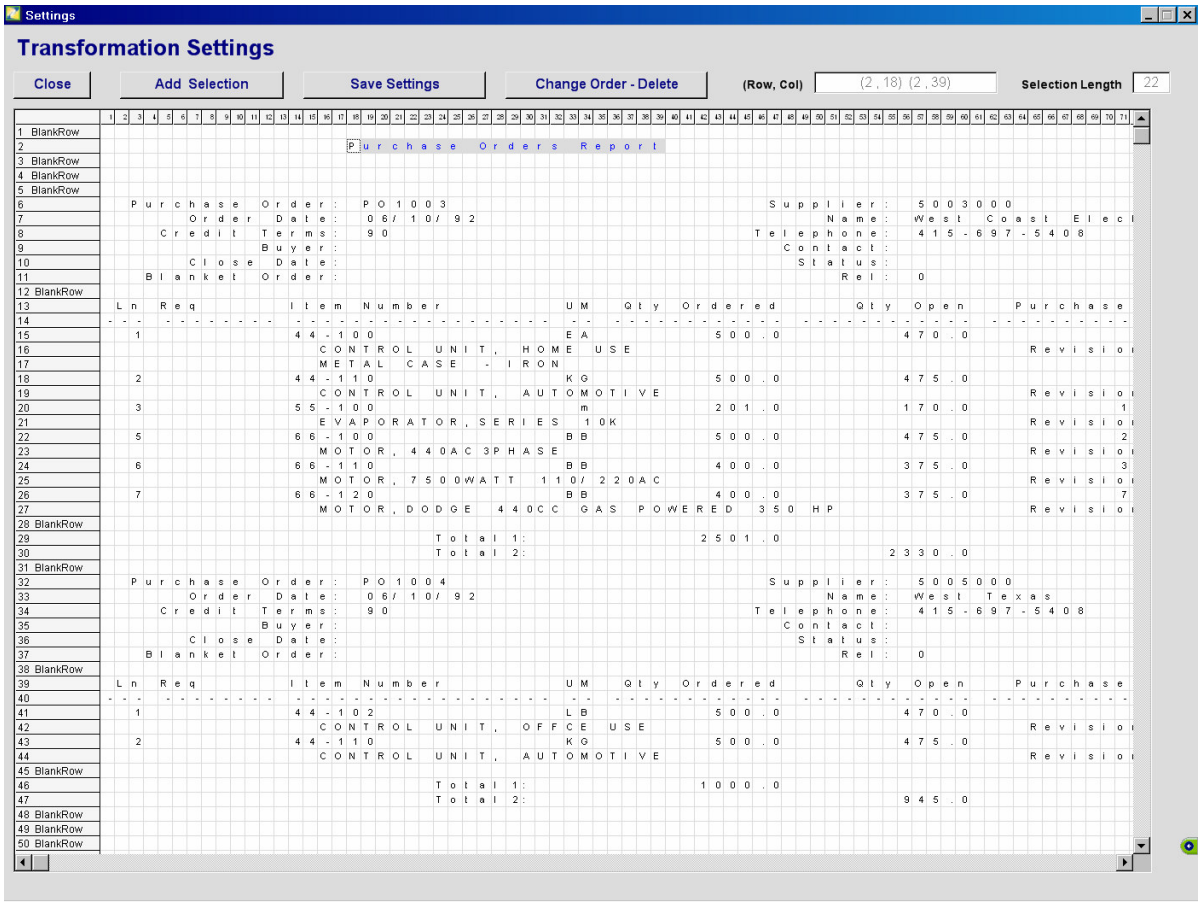
Mapping transformation settings requires identifying coordinates for a number of key report elements. This process involves highlighting the element first then assigning a 'Selection' to that element.

3.1.1 Step 1: Report Title

The first step requires identifying the report title. This is a mandatory step.

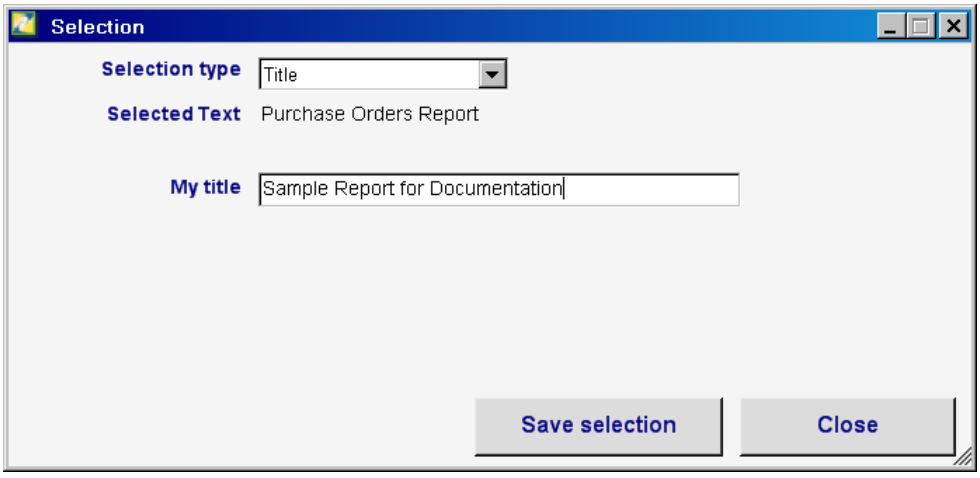
1. **Highlight the report title** on the report by clicking on the first character of the title, hold down the button and drag the cursor to the end of the title until it is highlighted entirely.

   Note the first character you highlight will appear with a broken line around it (this also indicates the character is selected) – all subsequent characters will be highlighted in a pale blue.

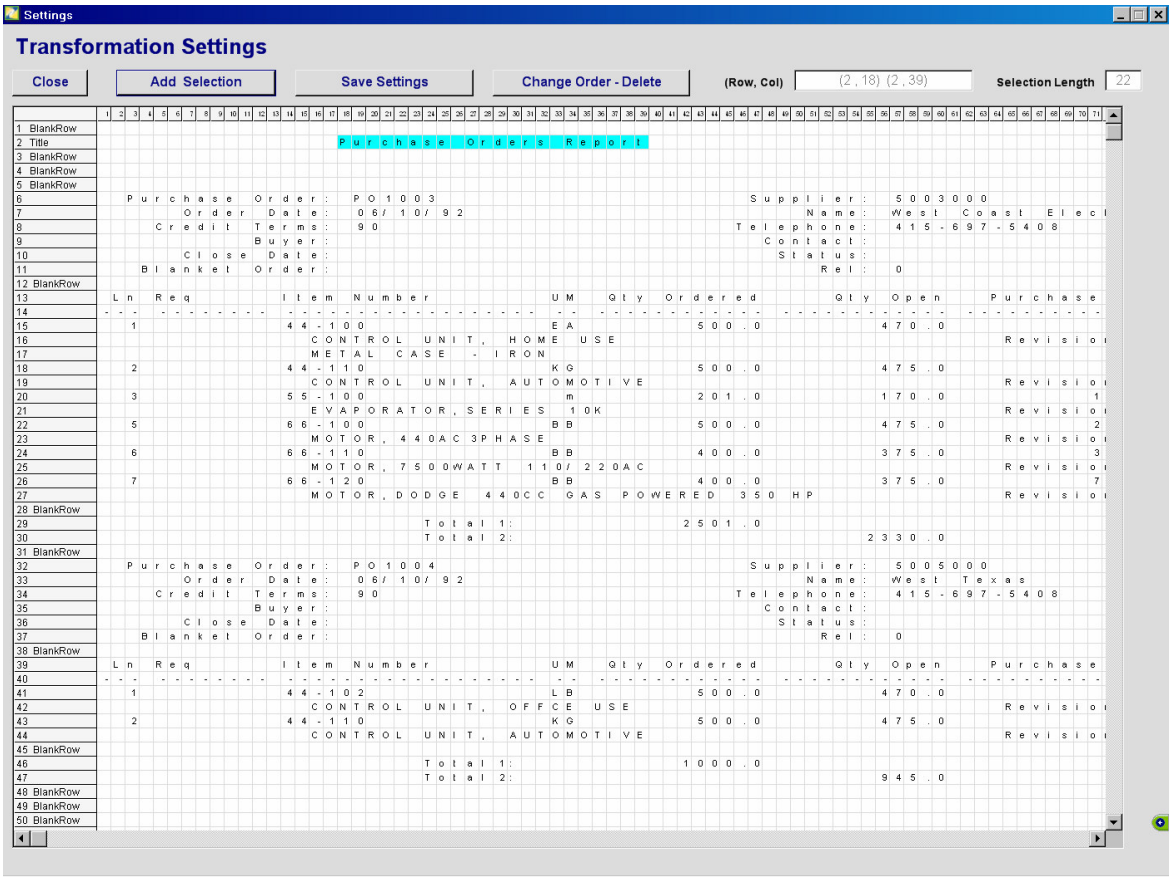


2. **Click the Add Selection** button. A window will appear with a drop down list of report elements. By default Title will be selected.

3. **Click Save Selection**. You will the option to enter your own custom Report Title if you don't like the one in the text report. You must enter a title.



4. **Click Save Selection a second time**. This will save the title settings. You will notice the title portion of the text report is now highlighted in a turquoise blue.



3.1.2 Step 2: Detail Pivot

Identifying and selecting the Detail Pivot is the next step in mapping transformation settings. The Detail Pivot is a character or group of characters that identifies the detail rows of a text report. The Detail Pivot can be a decimal point, a comma, or any other character. The key is that this identifier only appears in the same spot for all rows that contain the details of the text report. Note there can be more than one possible Detail Pivot on a text report; however, for Fraser Stream Integration, only one need be identified.

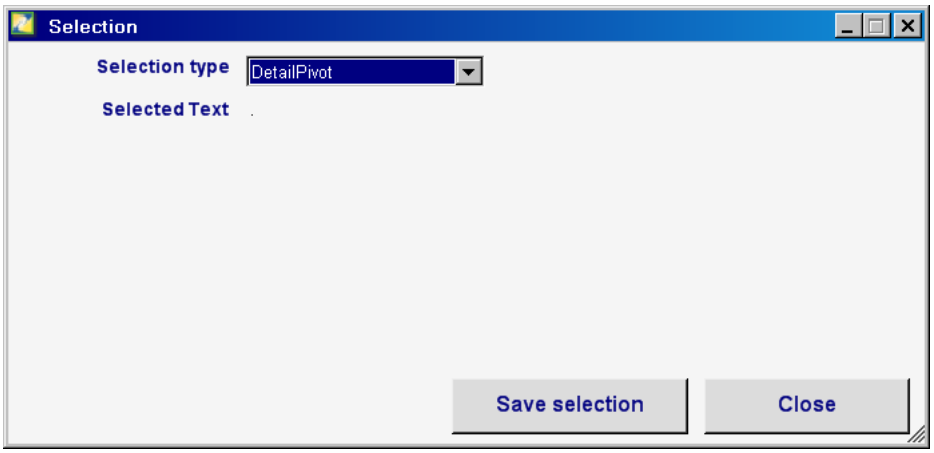
If a suitable detail pivot detail cannot be found, you can create a special table using the **List Of Values** option (see section 4.2) whereby certain words or codes such as Units of Measure (EA, PK, KG, CS, etc…) are used instead to identify detail rows in the report.

In the example above, a suitable Pivot Detail would be the decimal point under the column Quantity Ordered. The decimal point appears for all detail records and therefore is a suitable identifier.

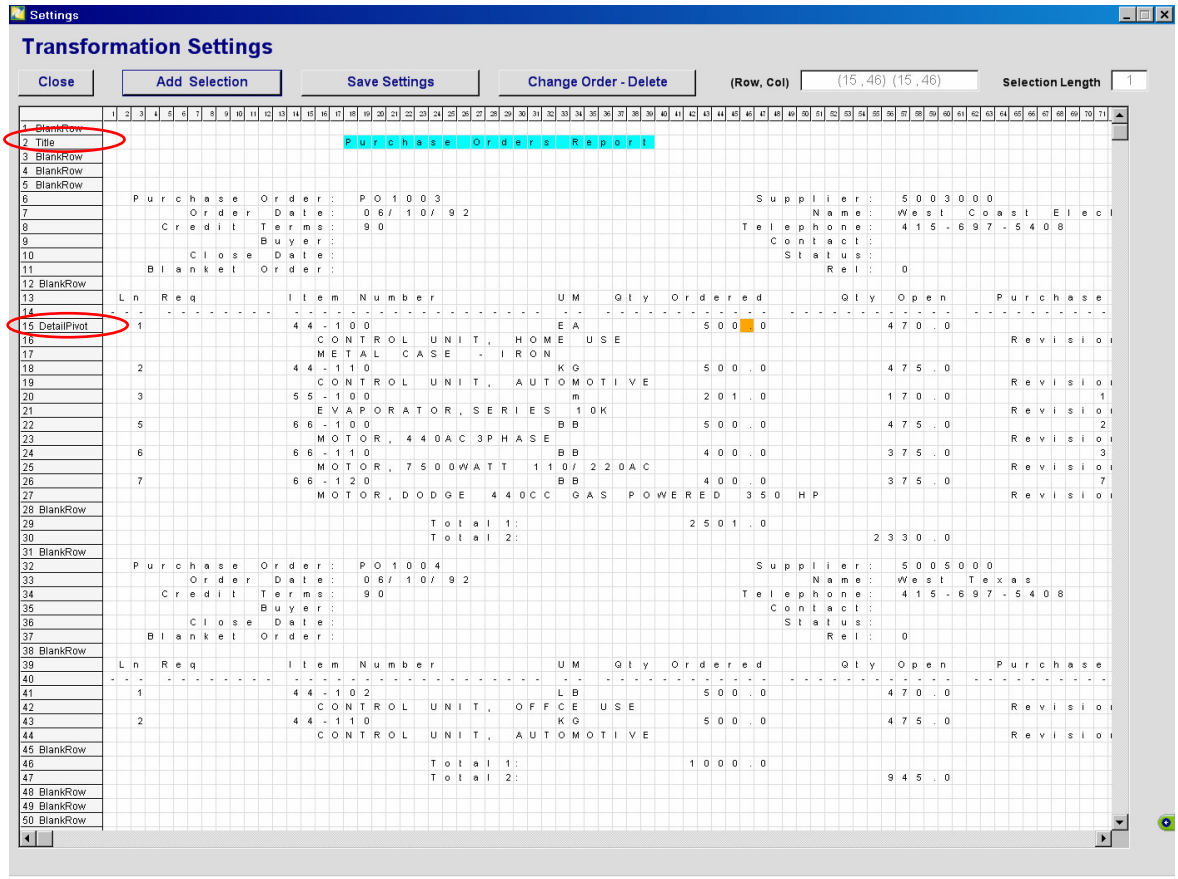
1. **Highlight the decimal point** at the intersection of row 15 and column 46. Since this Detail Pivot is only one character, just click on the coordinate to highlight the decimal point.

2. **Click the Add Selection Button**. Fraser Stream Report will automatically bring up the Detail Pivot from the selection list. Note the decimal character appears below on the Selected Text line (see screenshot next page).

3. **Click the Save Selection Button**. A List of Values selection box will appear – you may leave this blank (more will be said on this option in a later section)



4. **Click on the Save Selection Button a second time**. The Selection Box will close and the Pivot Detail will appear in orange on the Transformation Settings page.



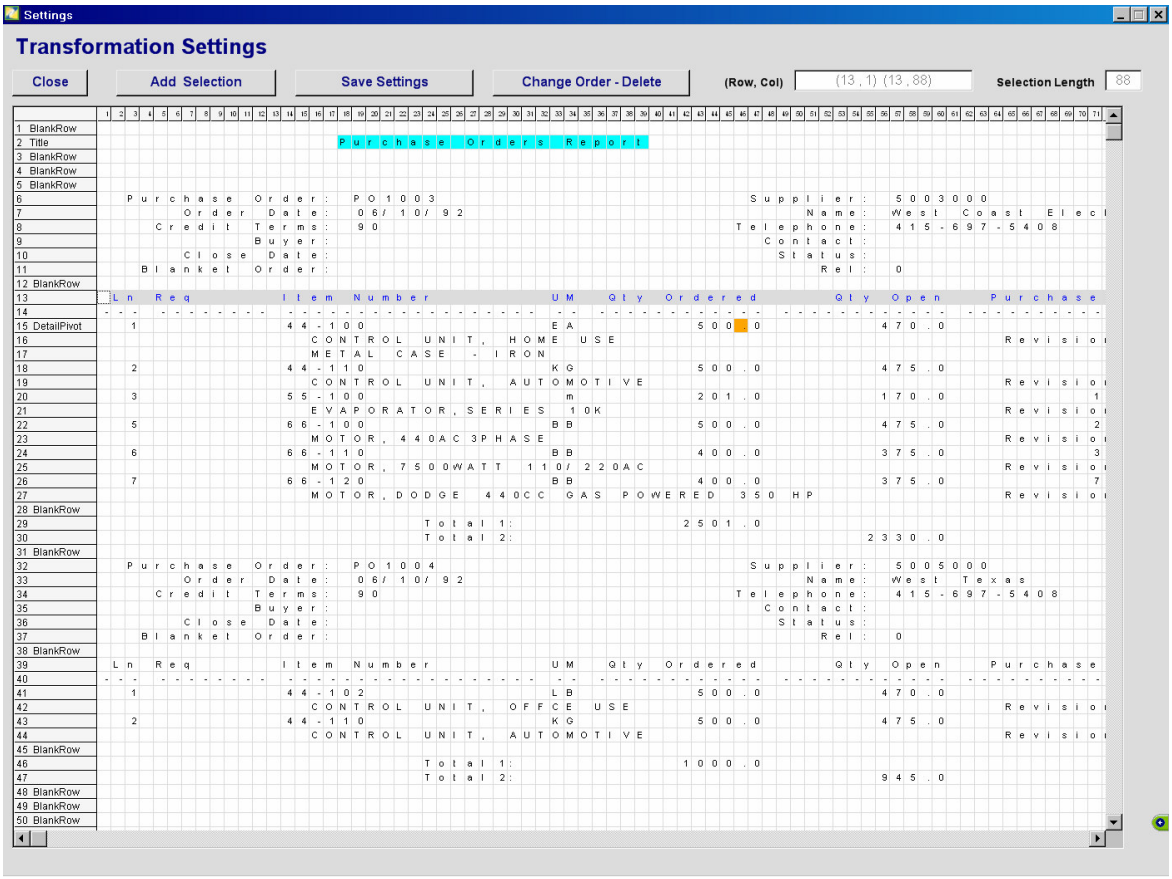
Note that each time a report element such as Title or Pivot Detail is identified, a label for that element appears along the left side of the screen in the row header. (See red ovals in screenshot above)

3.1.3 Step 3: Column Labels (Optional Step)

As an optional step, you may identify the column labels and include them in your output. For example you may want to retain the Item Number, UM, Qty Ordered labels from the current sample report. Alternatively you may ignore the column labels and move to the next step.

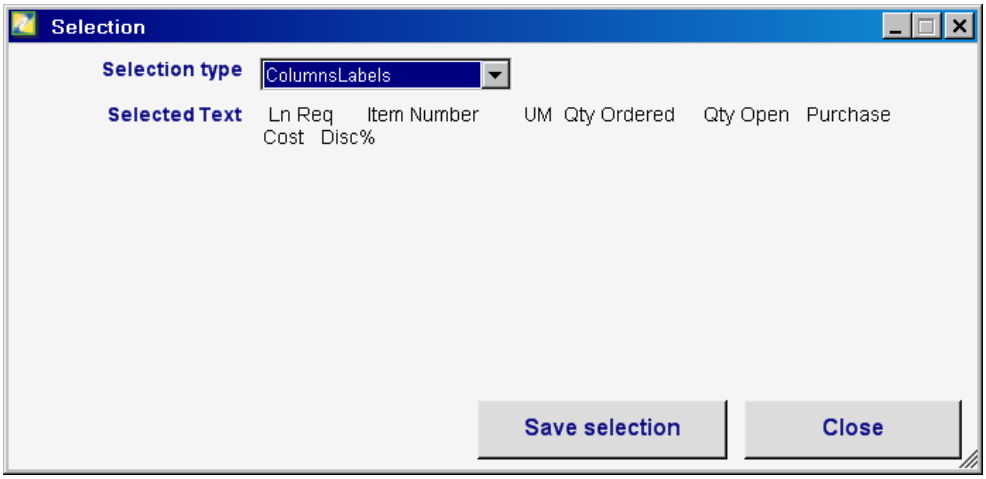
To identify a report's column labels you must highlight the entire row that contains them.

1. **Highlight the entire row that contains the column labels** by clicking on the row number on the left side of the screen (Row 13 for the current example). Note the entire row will appear highlighted.



2. **Click the Add Selection Button**.

3. **Select Column Labels from the Selection List**.



4. **Click the Save Selection Button**.

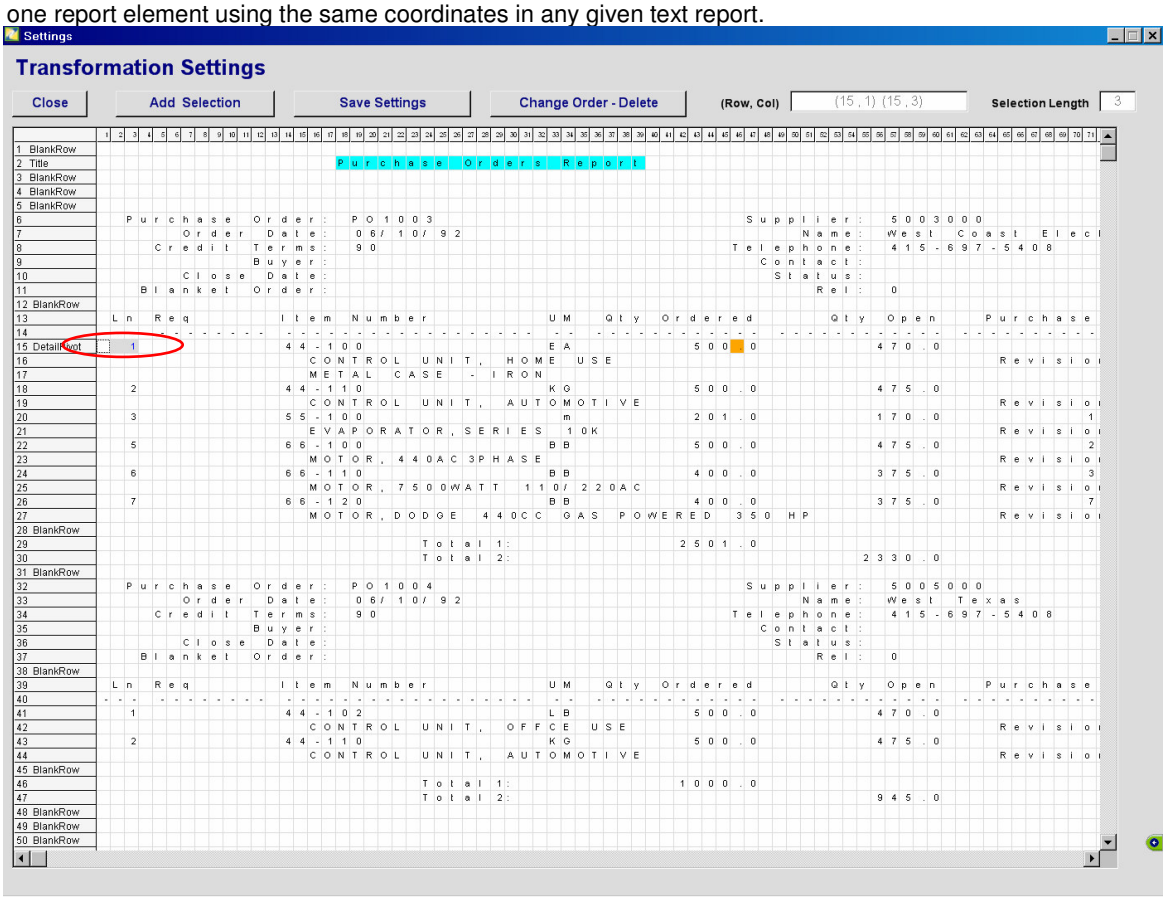
3.1.4 Step 4: Detail Columns

Defining the Detail Columns is the next mandatory step in mapping transformation settings. The Detail Column(s) are defined by the width of the individual columns that contain each detail. Each individual Detail Column will need to be identified and defined separately.

NOTE: In some cases, text reports will have details overlapping onto the next row in the report. Fraser Stream Integration has a provision for this scenario and it will be addressed in the next section - ***3.1.5***.

1. **Highlight the cells for the first detail column** – "**Ln**". These are the three cells from row 15 for columns 1,2, and 3 and contain the **two blank cells followed by the number 1**.

Note that Row 15 also contains the Detail Pivot (defined as a decimal point earlier). You may define more than one report element using the same coordinates in any given text report.

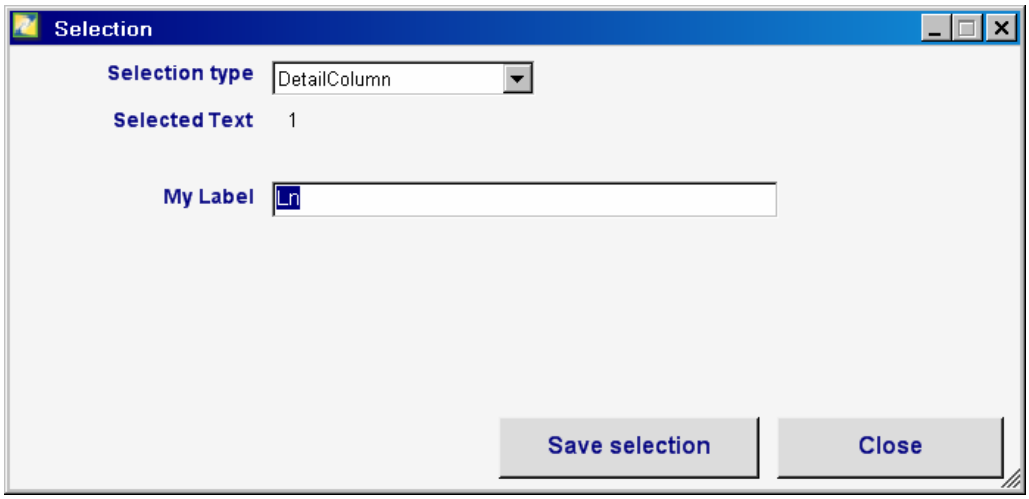


2. **Click the Add Selection Button**.

3. **Ensure that Detail Column is selected from the Selection type list**.

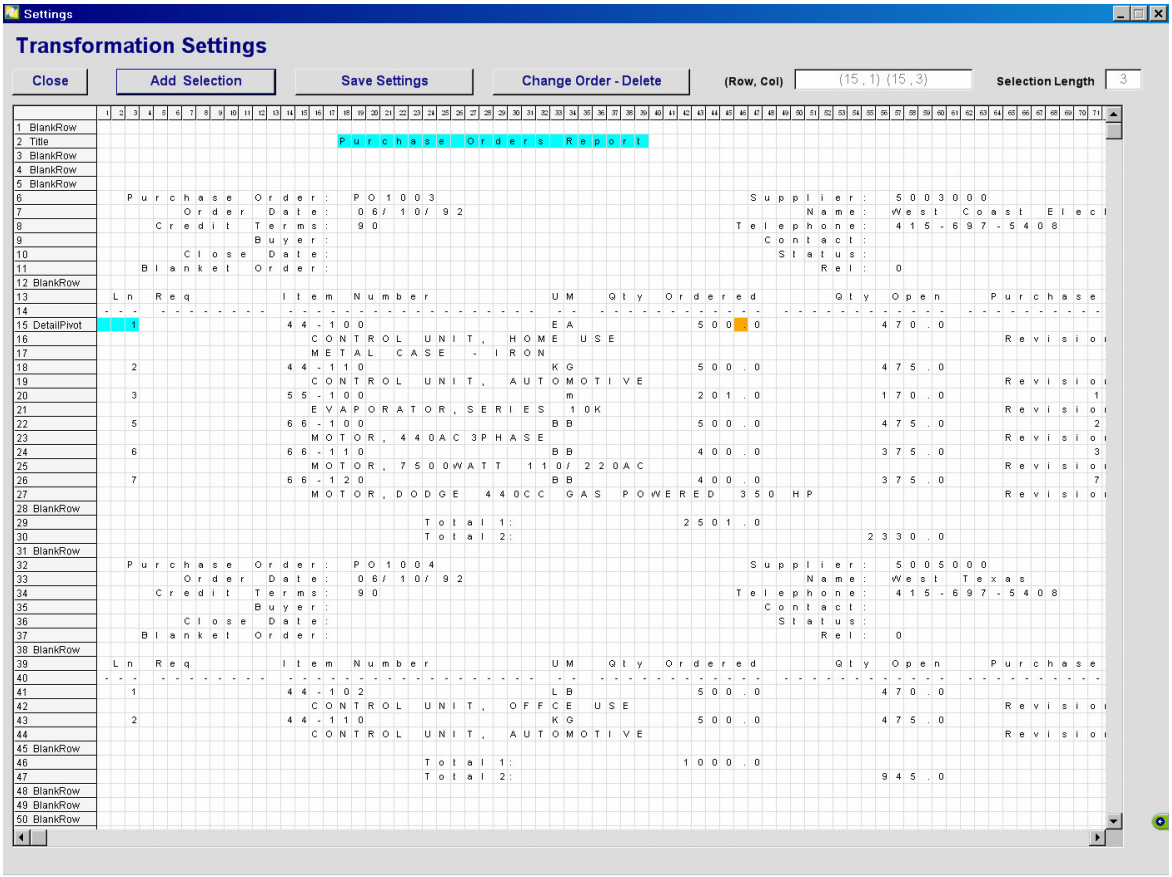
4. **Click the Save Selection button**.

5. **In the My Label field you may either accept the default label which Fraser Stream will provide** (if previously defined in section 3.1.3 Column Labels) or, you may enter your own custom label



6. **Click the Save selection button a second time**.

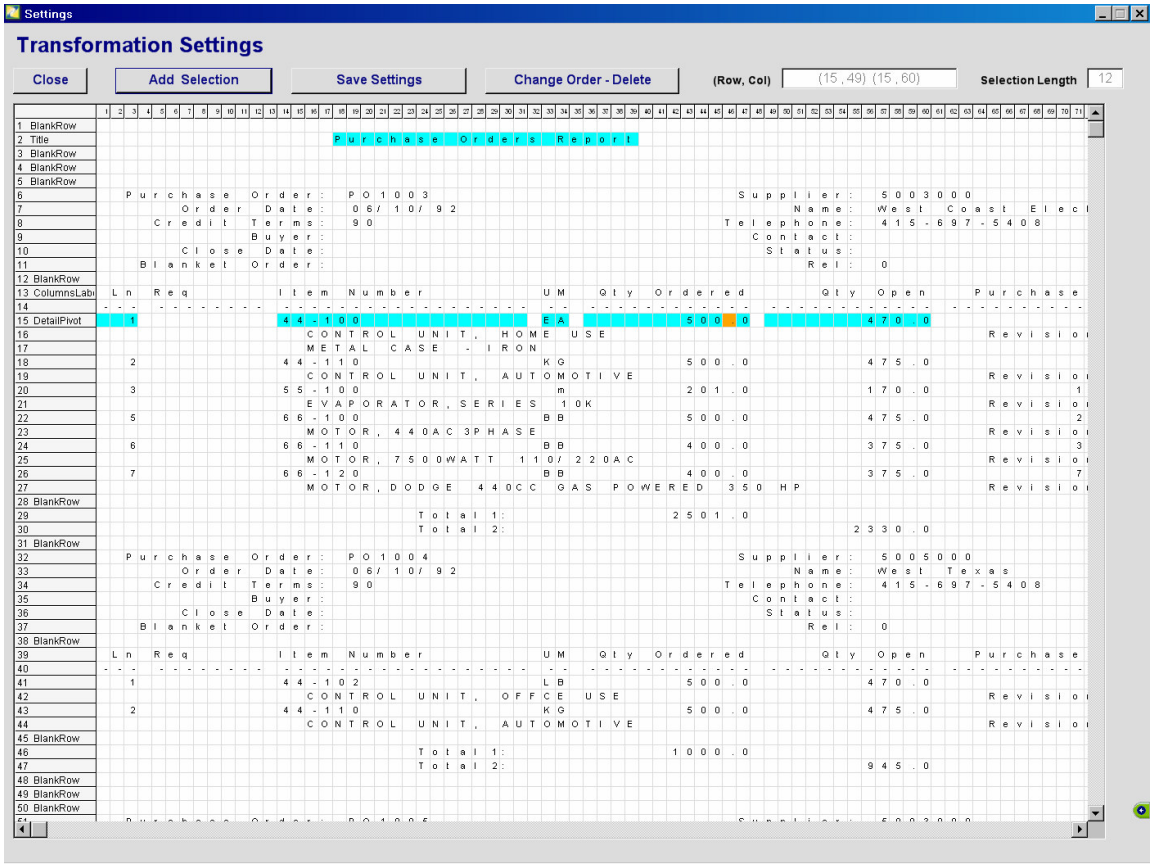
Fraser Stream Report will highlight the new Column Detail on the transformation screen.



Repeat steps 1 through 6 for all the other column details that you wish to include in your output. You may skip over any columns that you don't require.

Note that in the following screen shot certain column details were omitted such as ***Req*** and ***Purchase Price*** (partly visible on screenshot).

The Detail Column for Quantity Ordered also overlaps with the previously define Pivot Detail element. Fraser Stream Integration can track multiple report elements that use the same coordinates.



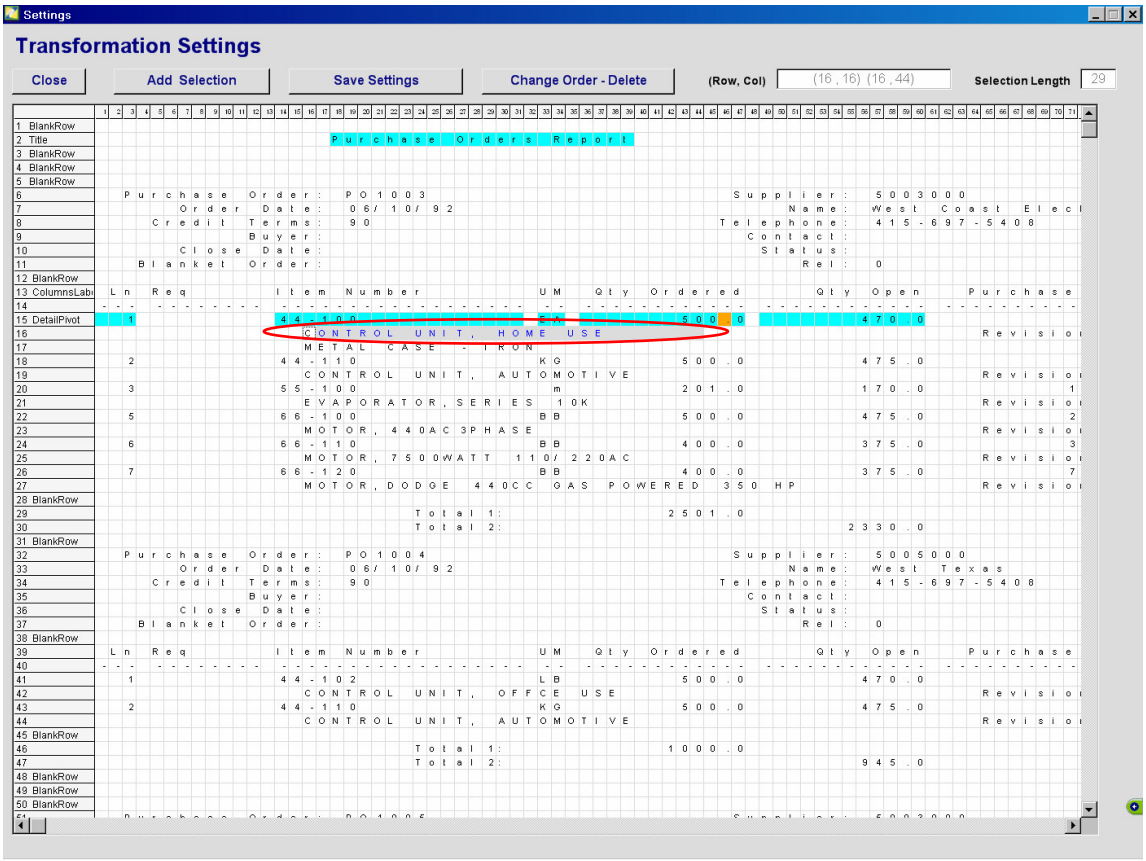
3.1.5 Step 5: Detail Row References (Optional Step)

Defining Detail Row References is an optional step which may be necessary depending on the structure of the text report. In some cases a text report may overlap report details onto more than one row of the report. This is usually the cause of the greatest amount of grief for those trying to transfer data from a text report into a spreadsheet. The Detail Row Reference is a special element that allows you to define as many additional rows and their corresponding details to the initial detail record within the text report.

In the example above, we see that the first detail record for item number 44-100 also contains a description of that item on the second and third line below. The individual fields such as in this case a primary and secondary description can be defined as Detail Row References and included in one single record in the final output file.

Detail Row References are defined exactly the same way as Detail Columns.

1. **Highlight cells in row 16 that contain the first description**. Be sure to highlight a reasonable range of cells to ensure the entire description is capture on subsequent rows of the report. In the next screenshot column 16 through 44 have been highlighted on row 16.

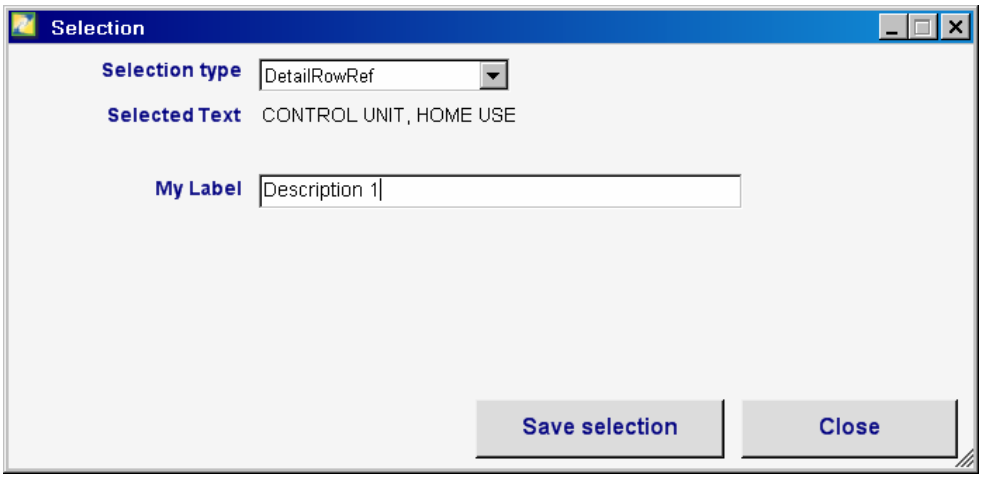


2. **Click the Add Selection Button**.

3. **Ensure that <u>Detail Row Reference</u> is selected from the Selection type list**.

4. **Click the Save Selection button**.

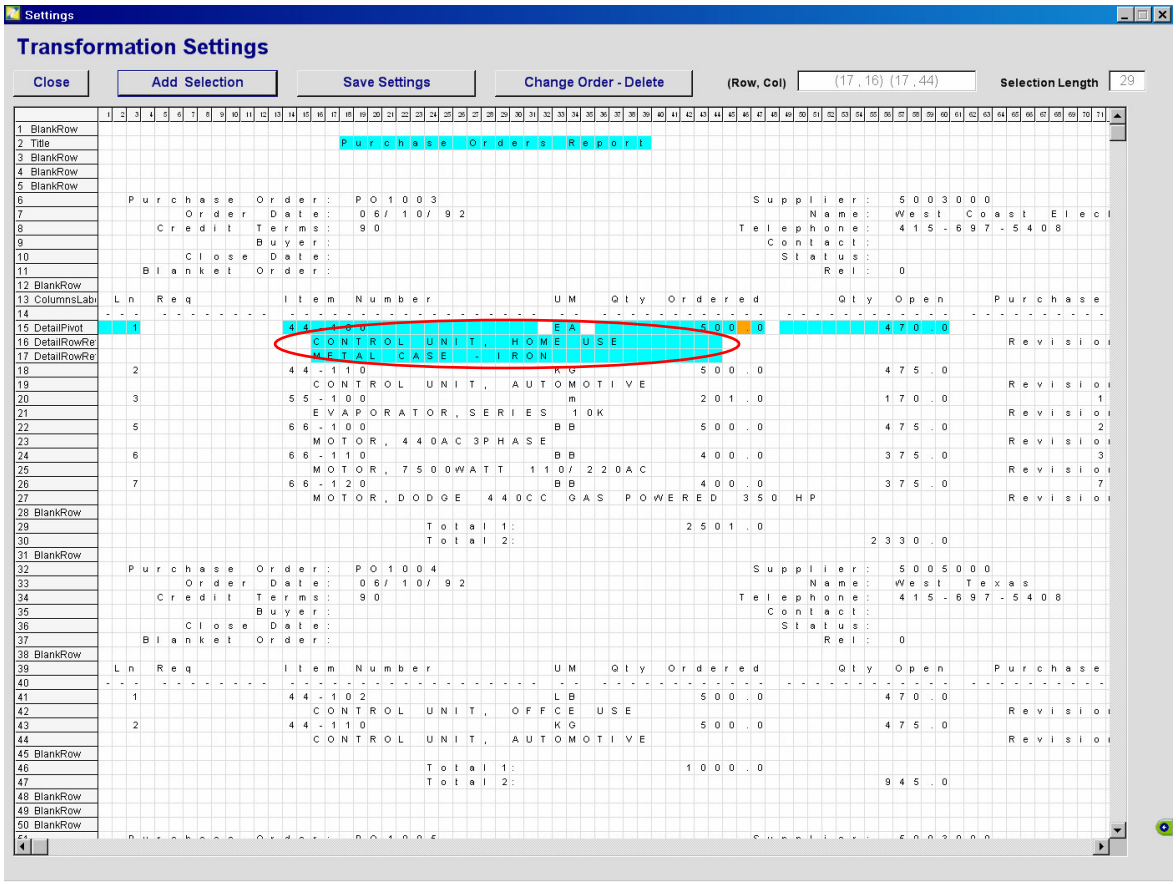
5. **Enter a description in the My Label field**. If in step 3 you defined Column Labels, these labels would have only applied to the first row of the record. Detail Row References must be defined manually by the user as they are <u>not</u> captured when defining Column labels



6. **Click the Save selection button a second time**.

Repeat steps 1 through 6 for all the other Detail Row References that you wish to include in your output. You may skip over any fields that you don't require.

Note that in the following screen shot a total of two Detail Row References (Description 1 – row 16 and Description 2 – row 17) were added or in other words linked to the initial detail row.



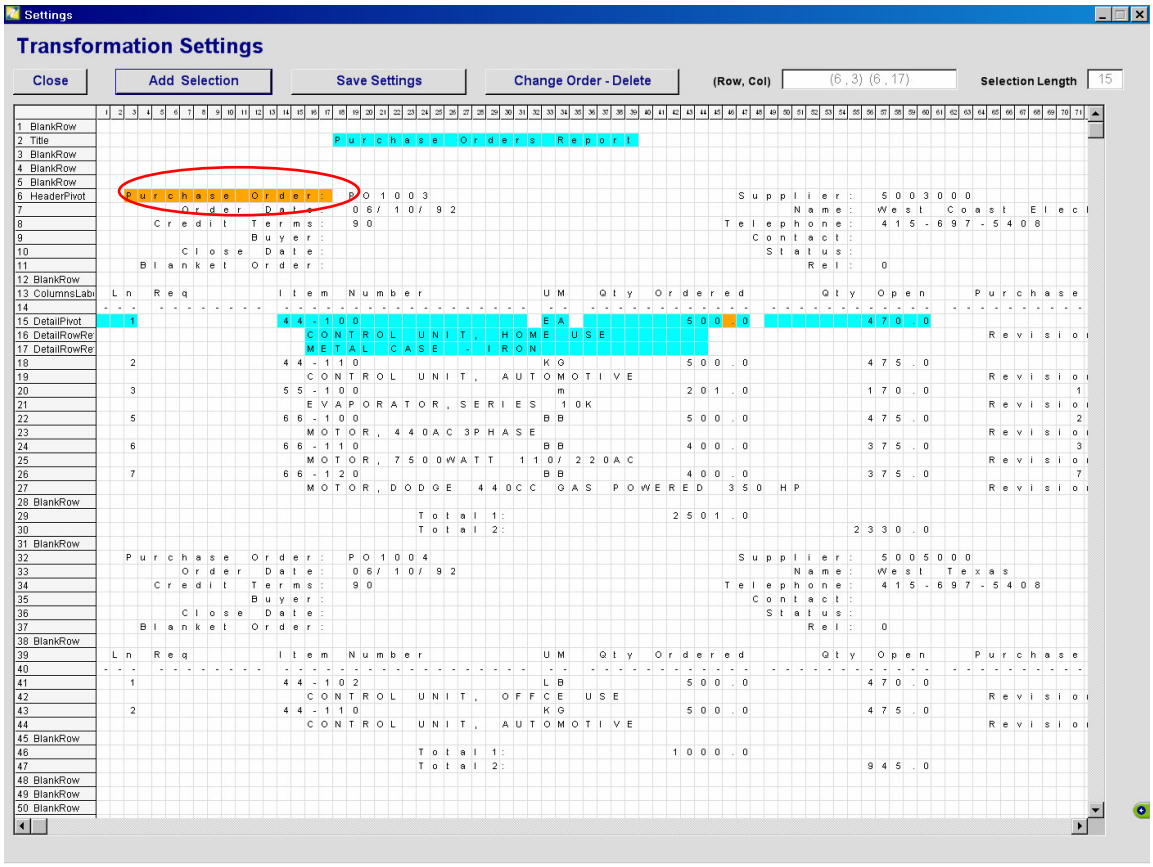
3.1.6 Step 6: Header Pivot (Optional Step)

Some text reports contain both header and footer information. This information may be summary level information for a single transaction or for the entire report (or both). In the current example, the header section contains the Purchase Order, Order Date, Credit Terms, etc… information. The Header Pivot is similar to the Detail Pivot in that it identifies a unique set of character to indicate where the header section begins.

In the current example (see screenshot) the word ***Purchase Order*** : can be used as a unique Header Pivot to identify the characteristics of the header section.

1. **Highlight the cells in row 6 from column 3 to column 17** to identify a unique header pivot indicator.
2. **Click the Add Selection button**.
3. **Ensure Header Pivot is selected in the Selection Type List**
4. **Click the Save Selection Button.**

The Header Pivot will become highlighted in orange (same color as the Detail Pivot)



3.1.7 Step 7: Header References (Optional Step)

If a Header Pivot was defined, Header References must be defined to specify which components of the header section are to be mapped and included in the output. In the case of outputting to Excel, the header information can be displayed line by line with the details.

For example you may want your Excel or XML output to include the Purchase Order number with every transaction detail, in this case, with every item that was part of that purchase order.

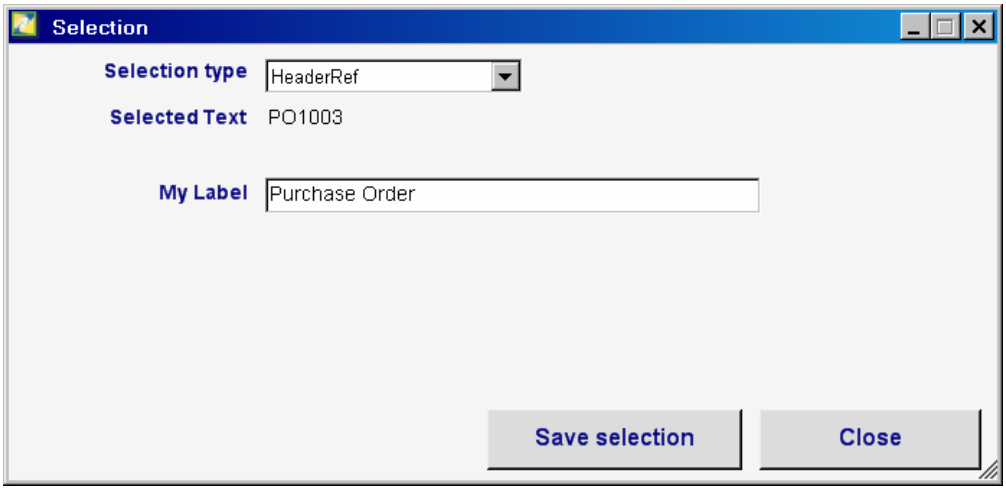
1. **Highlight the cells in row 6 from column 19 to column 26** to identify the header reference for the Purchase Order information. Be sure to select an area that will include the full Purchase Order Number. In some cases the information in a specific area may vary in width throughout the report.

2. **Click the Add Selection button**.

3. **Select the HeaderRef option from the Selection List**.

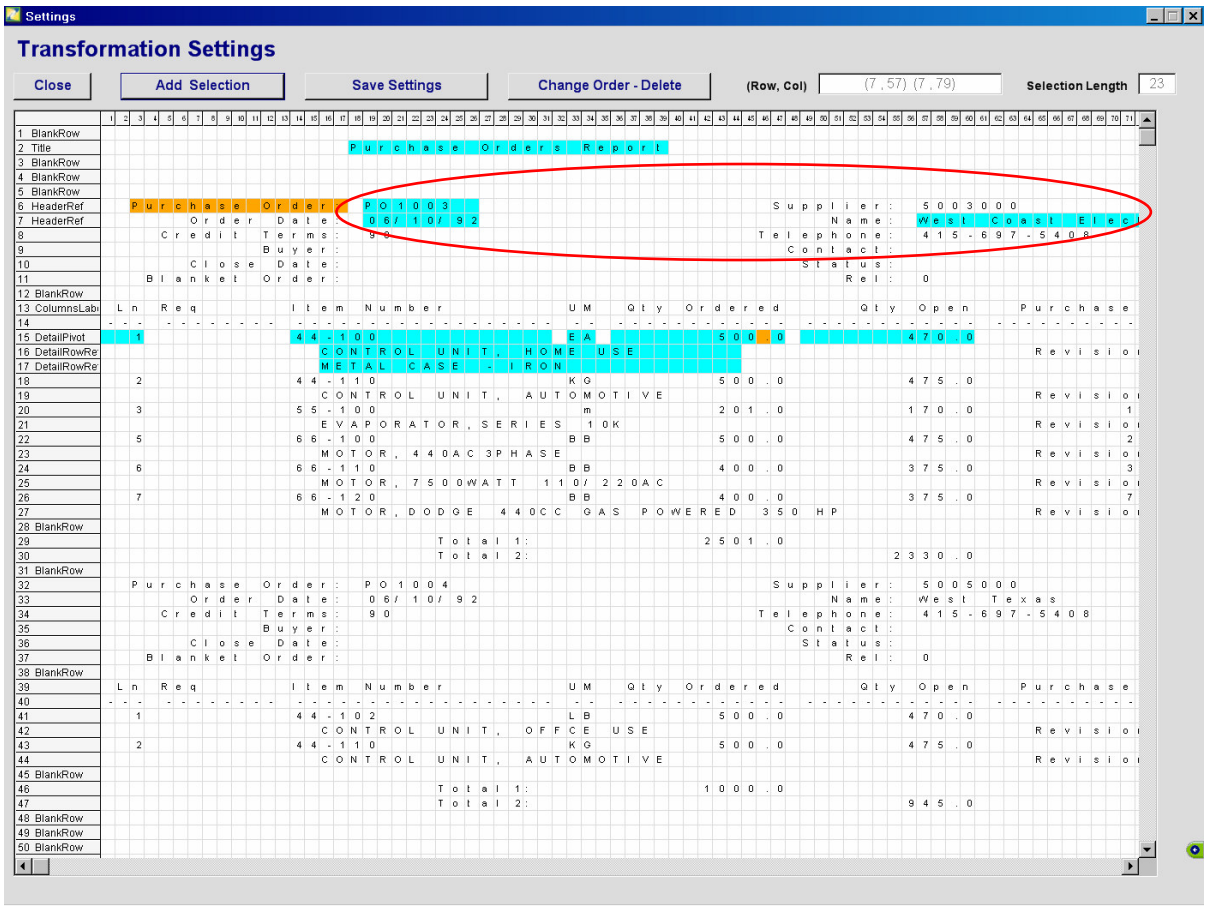
4. **Click the Save Selection Button**.

5. **Enter a name for the field you are mapping**. In this case Purchase Order



6. **Click the Save Selection button a second time**.

Repeat steps 1 through 6 for any other header fields you wish to map. The example below shows the Purchase Order, Order Date, and Supplier Name fields mapped.



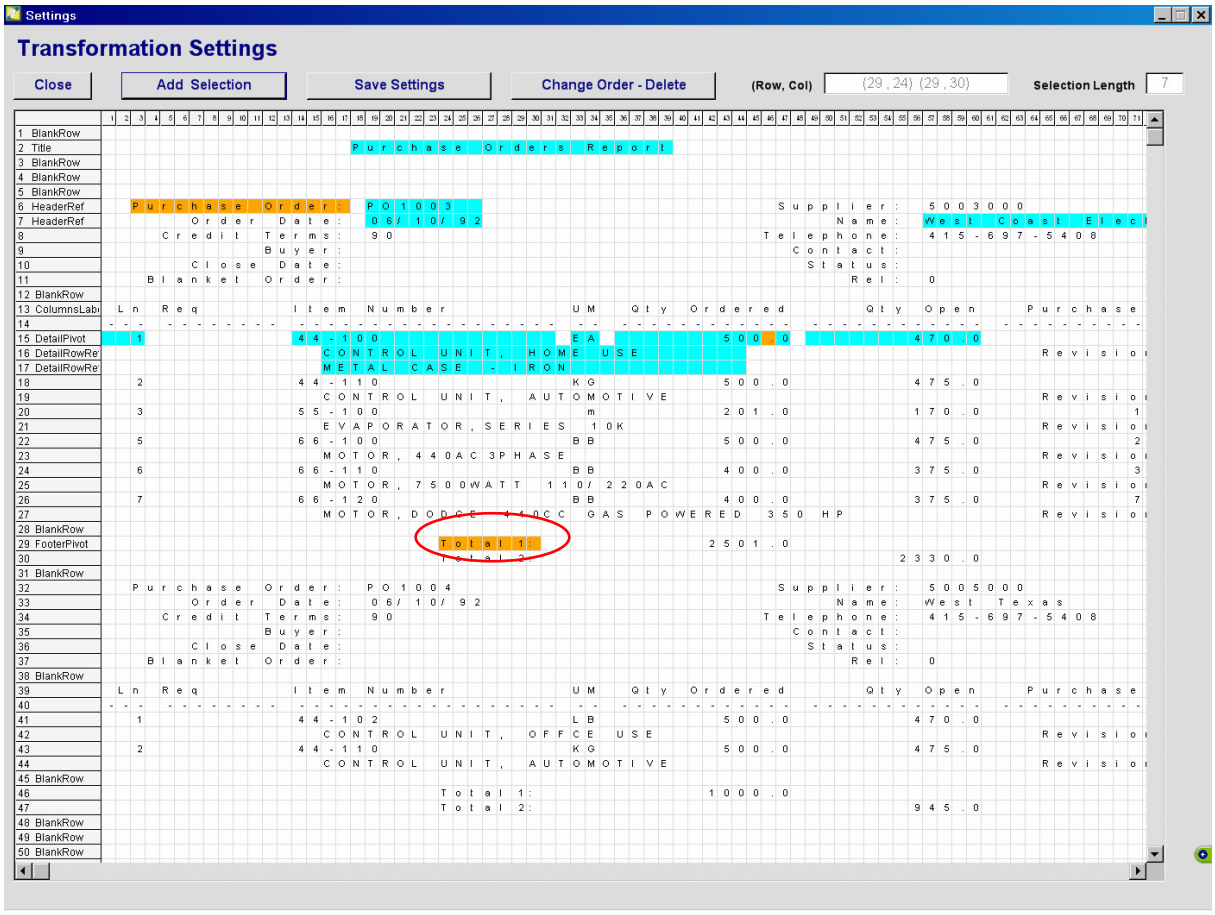
3.1.8 Step 8: Footer Pivot (Optional Step)

Some text reports contain both header and footer information. This information may be summary level information for a single transaction or for the entire report (or both). In the current example, the footer section contains the Quantity Ordered and Quantity Open totals for each purchase order. The Footer Pivot is similar to the Detail Pivot and Header Pivot in that it identifies a unique set of character to indicate where the footer section begins.

In the current example (see screenshot below) the text ***Total 1:*** can be used as a unique Footer Pivot to identify the characteristics of the footer section.

1. **Highlight the cells in row 29 from column 24 to column 30** to identify a unique footer pivot indicator.
2. **Click the Add Selection button**.
3. **Ensure Footer Pivot is selected in the Selection Type List**
4. **Click the Save Selection Button.**

The Footer Pivot will become highlighted in orange (same color as the Detail Pivot and Header Pivot).



3.1.9 Step 9: Footer Reference (Optional Step)

If a Footer Pivot was defined, Footer References must be defined to specify which components of the footer section are to be mapped and included in the output. In the case of outputting to Excel, the footer information can be displayed line by line with the details.

For example you may want your Excel or XML output to include the Total Number of Units Ordered for that Purchase Order with every item that was part of that purchase order.

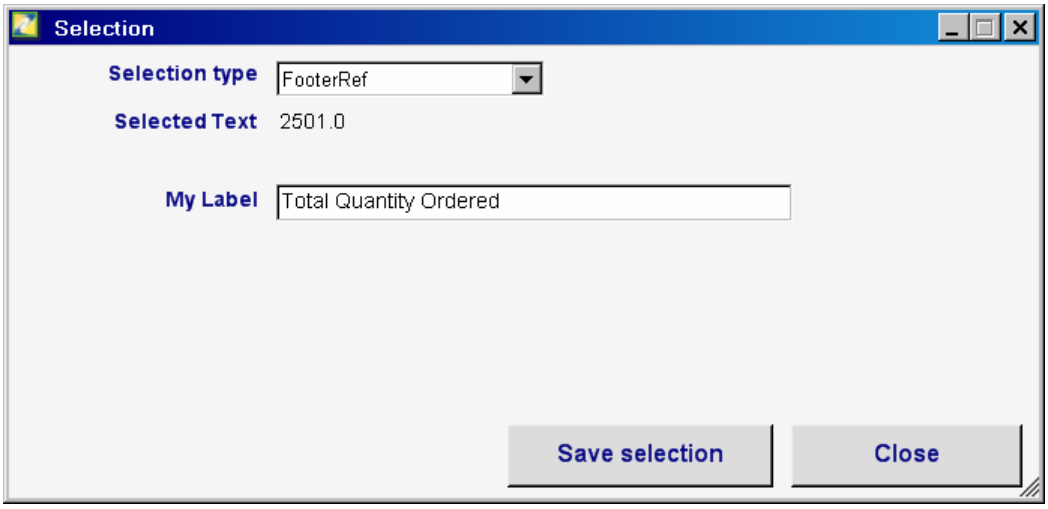
1. **Highlight the cells in row 29 from column 42 to column 47** to identify the footer reference for the Quantity Ordered total. Be sure to select an area that will include the full quantity. In some cases the information in a specific area may vary in width throughout the report.

2. **Click the Add Selection button**.

3. **Select the FooterRef option from the Selection List**.

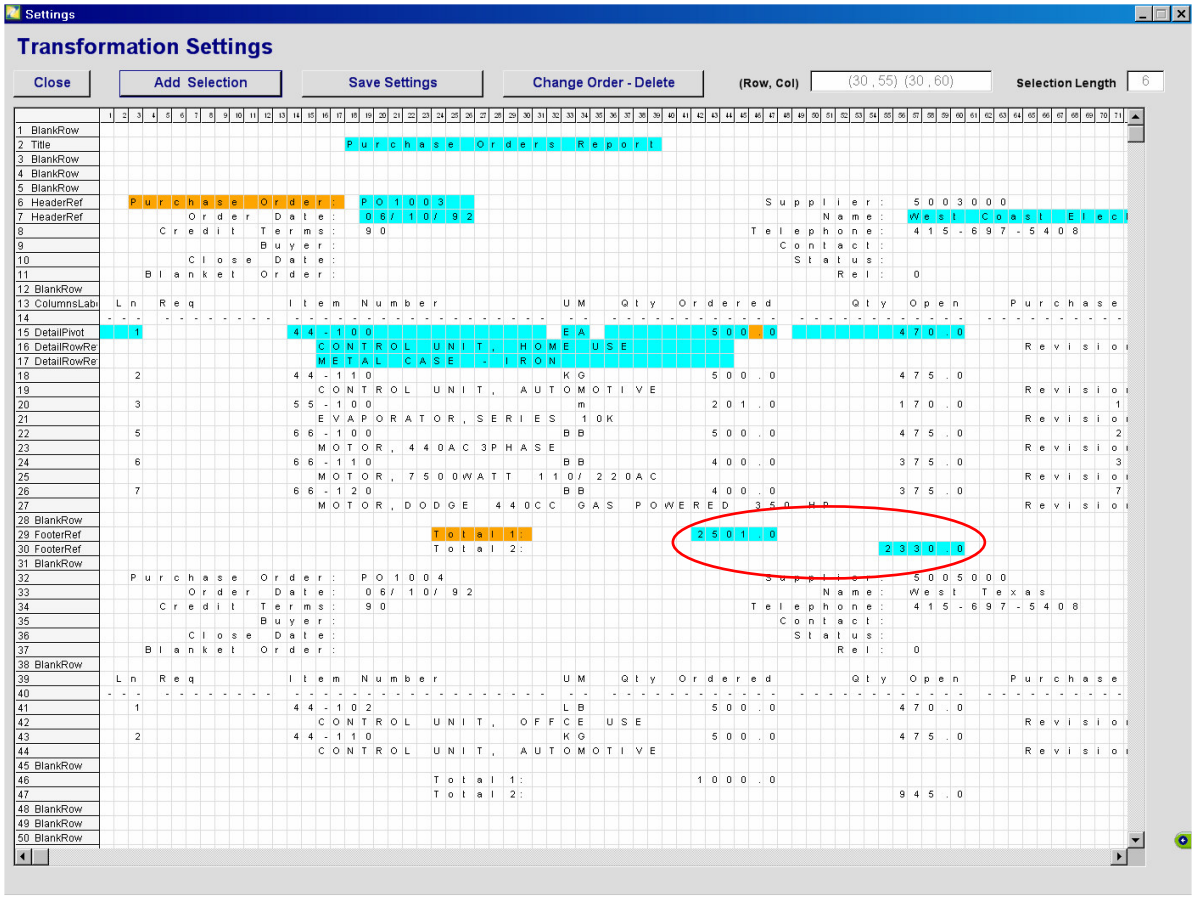
4. **Click the Save Selection Button**.

5. **Enter a name for the field you are mapping**. In this case Total Quantity Ordered.



6. **Click the Save Selection button a second time**.

Repeat steps 1 through 6 for any other footer fields you wish to map. The following screenshot shows the ***Quantity Ordered*** and ***Quantity Open*** footer totals for each Purchase Order mapped.



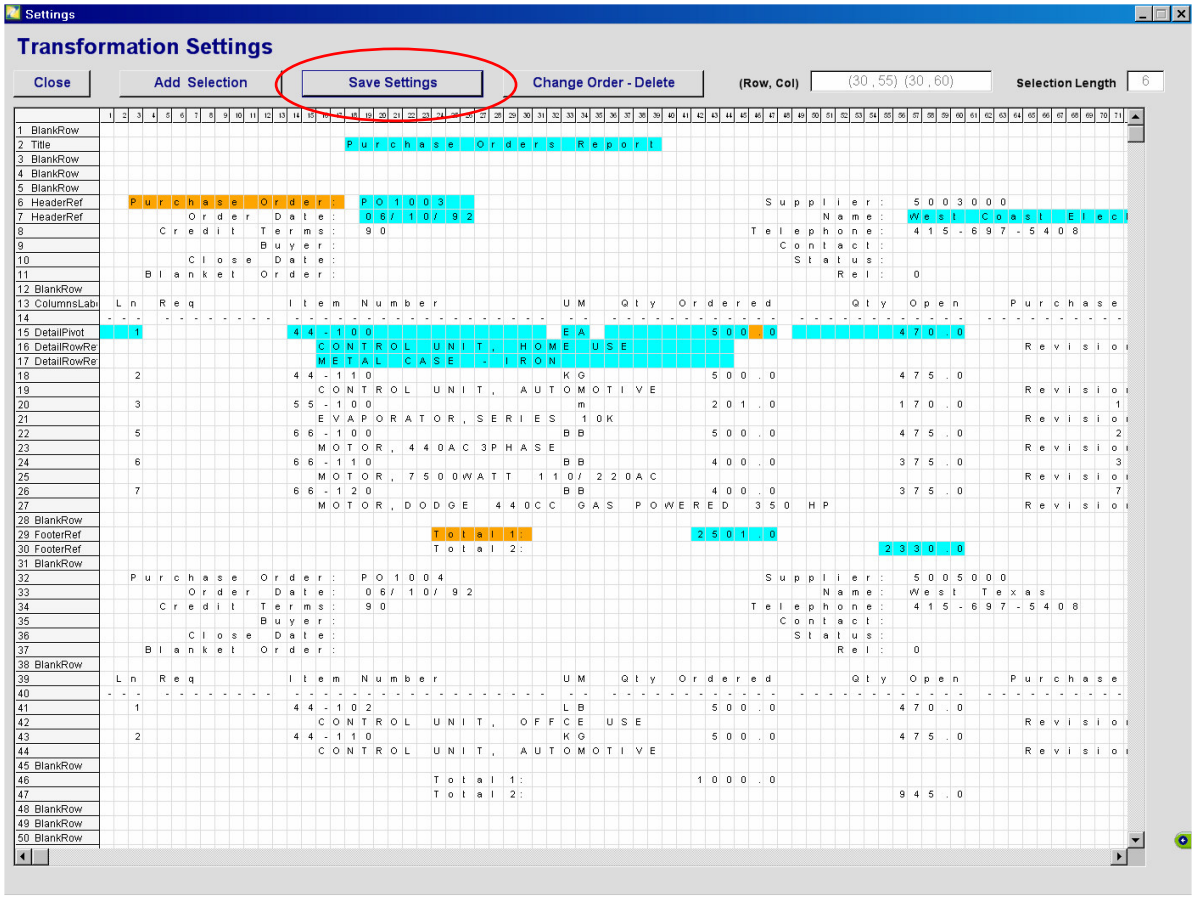
3.1.10 Step 10: Saving the Settings

Depending on the complexity of the report and the elements that need to be mapped, the overall mapping process takes a maximum of ten distinct steps. The last step is to save the overall settings. Once all the various report elements have been mapped, click on the **Save Settings** command button at the top of the transformation settings screen. You may click the Close button to return to the main menu.

You have completed mapping transformation settings for a specific type of text report. Transforming the report will now be as easy as a single click on the mouse regardless of how may times you run the report. Report length can vary each time you run the text report, all that must stay constant is the overall structure of the report.

Fraser Stream Integration relies on the consistency of the report structure to ensure that the data is properly translated and converted to the specified format.

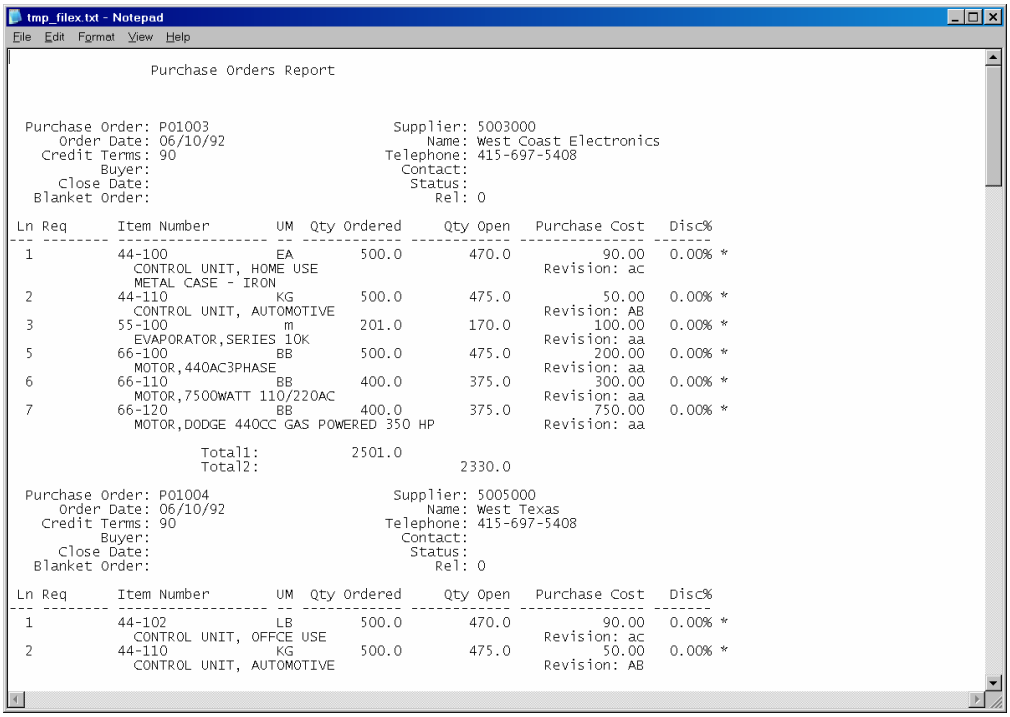
In order for the new transformation settings to appear, you must click on the Select a Text Report button and reselect the text report to reload the settings list. Simply returning to the main menu will not automatically update the available settings even though the report appears to be selected.



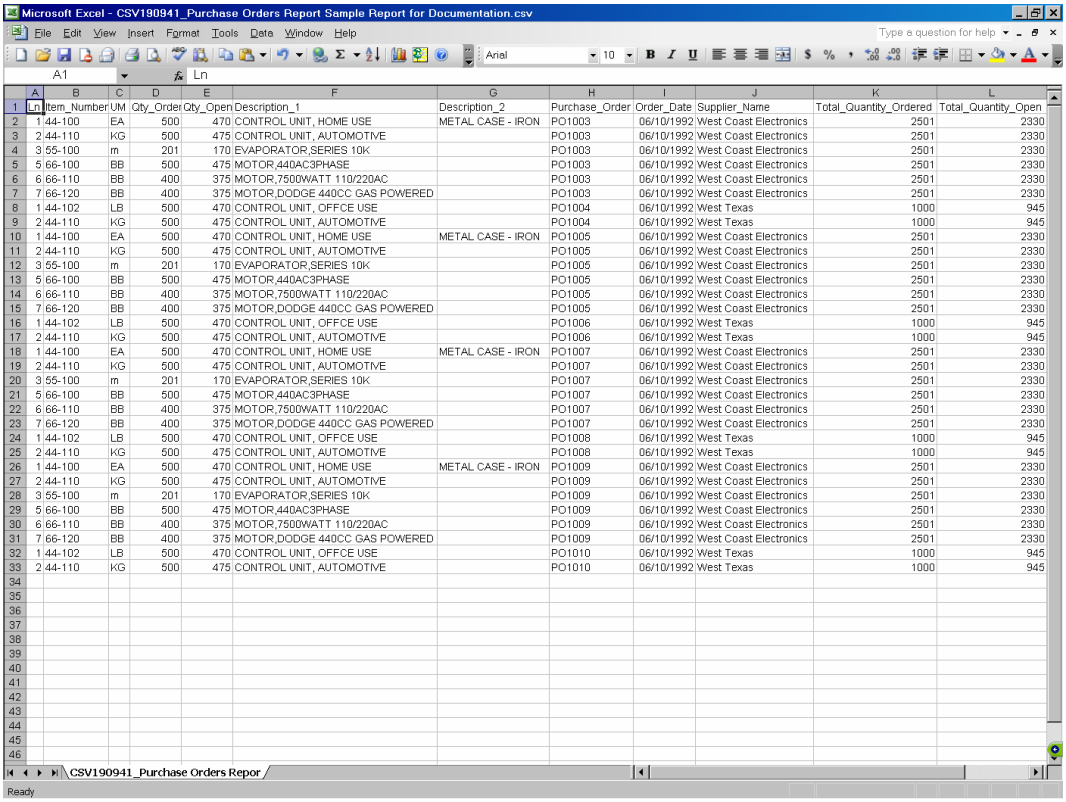
3.2 Transforming the Text Report

Once the transformation settings have been mapped, transforming a text report requires a click of the mouse. Using the settings we created in section 3.1:

1. Click on the **Select a Text Report** button
2. Select the folder: C:\Program Files\Fraser Stream\Fraser Stream Integration\Examples
3. Select the text file: **Example 01.txt**
4. **(Transformation settings will automatically appear in the drop down list – note the new settings created in section 3.1)**
5. Click on the **Text** button to view the report in its original format in Notepad

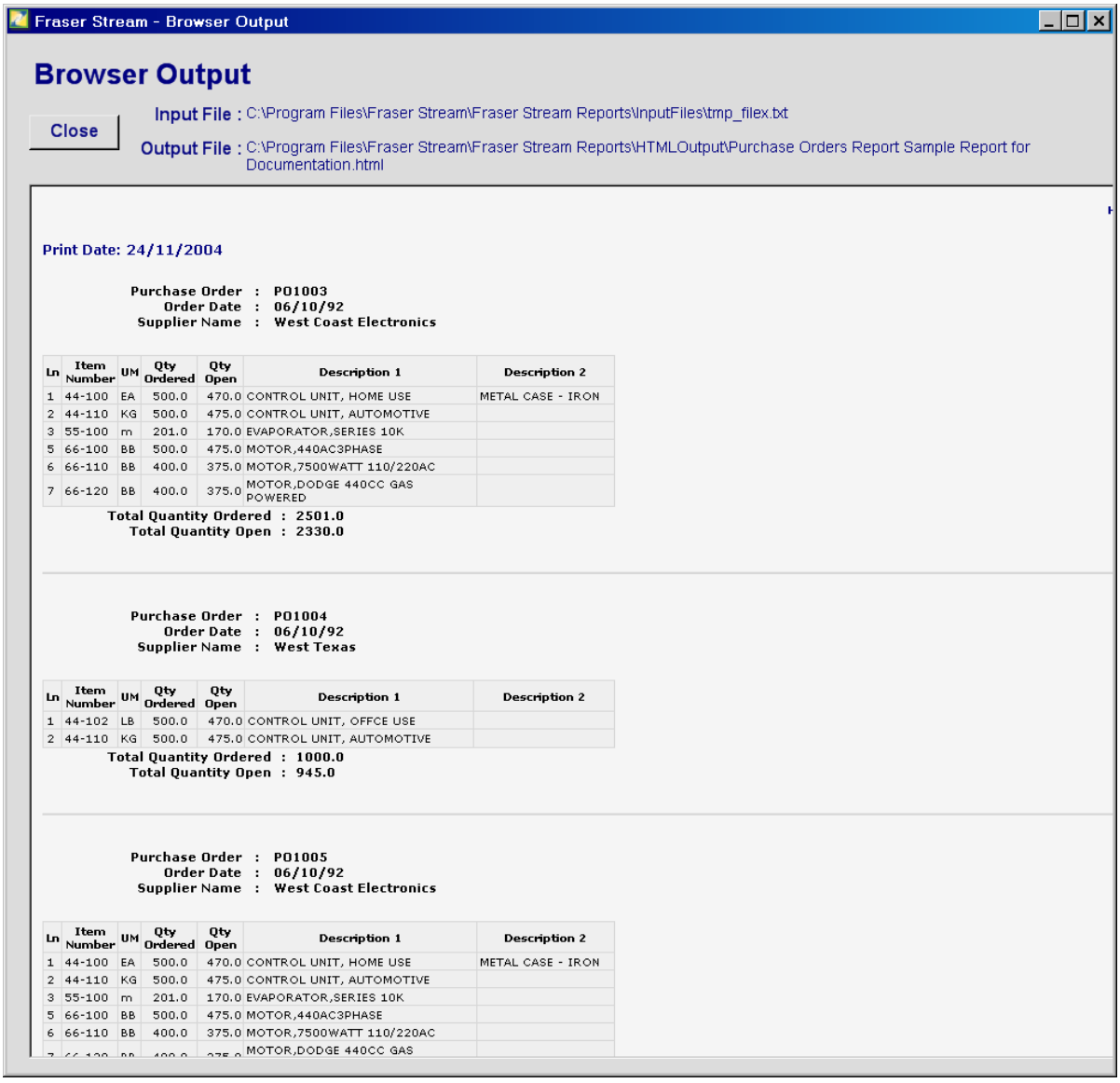


6. Click on the **Excel** button to see the text report in Excel format. The application will extract report header, details line and footer information and display each record on a single Excel row

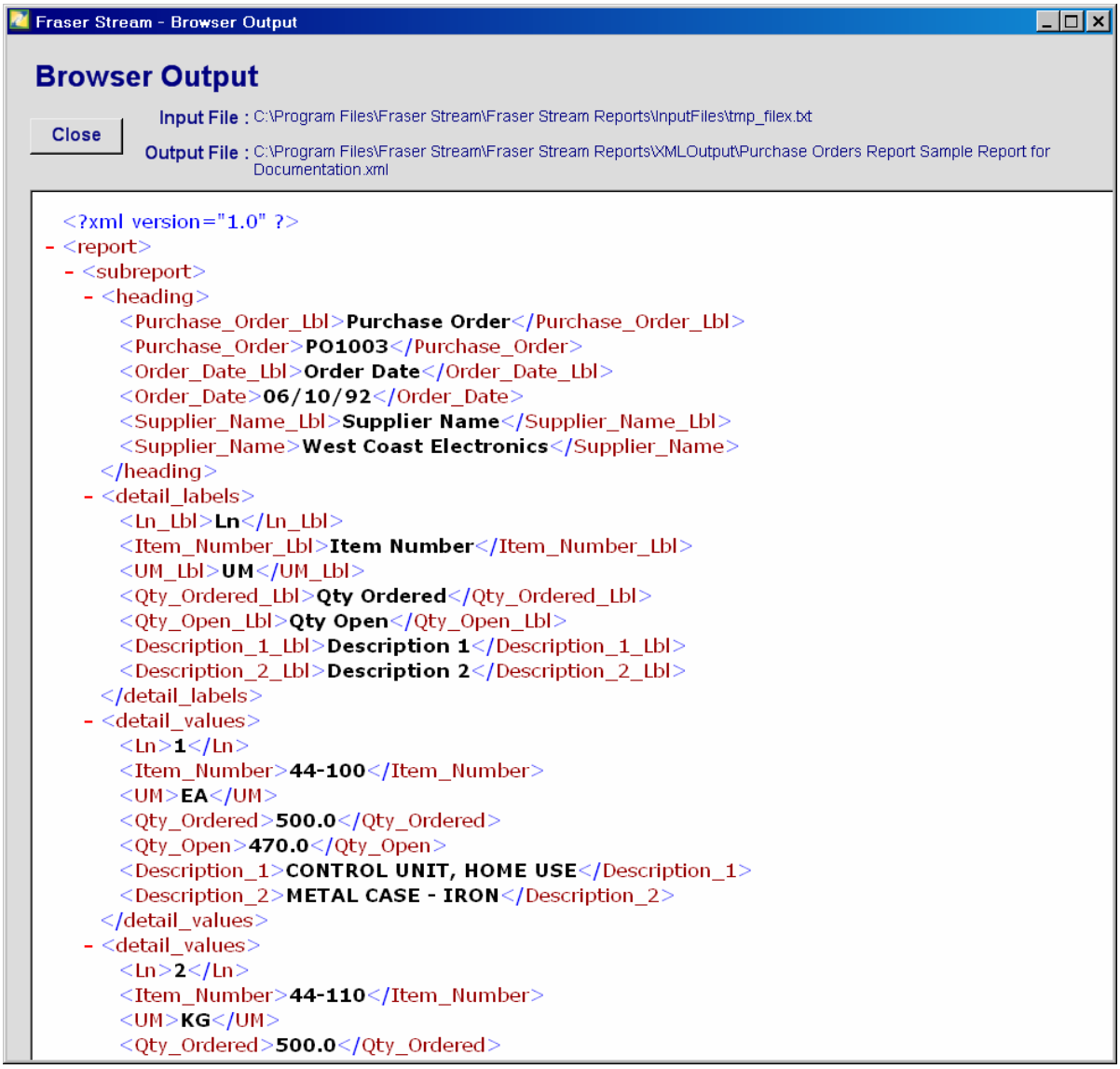


Ln	Item_Number	UM	Qty_Ordered	Qty_Open	Description_1	Description_2	Purchase_Order	Order_Date	Supplier_Name	Total_Quantity_Ordered	Total_Quantity_Open
1	44-100	EA	500	470	CONTROL UNIT, HOME USE	METAL CASE - IRON	PO1003	06/10/1992	West Coast Electronics	2501	2330
2	44-110	KG	500	475	CONTROL UNIT, AUTOMOTIVE		PO1003	06/10/1992	West Coast Electronics	2501	2330
3	55-100	m	201	170	EVAPORATOR,SERIES 10K		PO1003	06/10/1992	West Coast Electronics	2501	2330
5	66-100	BB	500	475	MOTOR,440AC3PHASE		PO1003	06/10/1992	West Coast Electronics	2501	2330
6	66-110	BB	400	375	MOTOR,7500WATT 110/220AC		PO1003	06/10/1992	West Coast Electronics	2501	2330
7	66-120	BB	400	375	MOTOR,DODGE 440CC GAS POWERED		PO1003	06/10/1992	West Coast Electronics	2501	2330
1	44-102	LB	500	470	CONTROL UNIT, OFFCE USE		PO1004	06/10/1992	West Texas	1000	945
2	44-110	KG	500	475	CONTROL UNIT, AUTOMOTIVE		PO1004	06/10/1992	West Texas	1000	945
1	44-100	EA	500	470	CONTROL UNIT, HOME USE	METAL CASE - IRON	PO1005	06/10/1992	West Coast Electronics	2501	2330
2	44-110	KG	500	475	CONTROL UNIT, AUTOMOTIVE		PO1005	06/10/1992	West Coast Electronics	2501	2330
3	55-100	m	201	170	EVAPORATOR,SERIES 10K		PO1005	06/10/1992	West Coast Electronics	2501	2330
5	66-100	BB	500	475	MOTOR,440AC3PHASE		PO1005	06/10/1992	West Coast Electronics	2501	2330
6	66-110	BB	400	375	MOTOR,7500WATT 110/220AC		PO1005	06/10/1992	West Coast Electronics	2501	2330
7	66-120	BB	400	375	MOTOR,DODGE 440CC GAS POWERED		PO1005	06/10/1992	West Coast Electronics	2501	2330
1	44-102	LB	500	470	CONTROL UNIT, OFFCE USE		PO1006	06/10/1992	West Texas	1000	945
2	44-110	KG	500	475	CONTROL UNIT, AUTOMOTIVE		PO1006	06/10/1992	West Texas	1000	945
1	44-100	EA	500	470	CONTROL UNIT, HOME USE	METAL CASE - IRON	PO1007	06/10/1992	West Coast Electronics	2501	2330
2	44-110	KG	500	475	CONTROL UNIT, AUTOMOTIVE		PO1007	06/10/1992	West Coast Electronics	2501	2330
3	55-100	m	201	170	EVAPORATOR,SERIES 10K		PO1007	06/10/1992	West Coast Electronics	2501	2330
5	66-100	BB	500	475	MOTOR,440AC3PHASE		PO1007	06/10/1992	West Coast Electronics	2501	2330
6	66-110	BB	400	375	MOTOR,7500WATT 110/220AC		PO1007	06/10/1992	West Coast Electronics	2501	2330
7	66-120	BB	400	375	MOTOR,DODGE 440CC GAS POWERED		PO1007	06/10/1992	West Coast Electronics	2501	2330
1	44-102	LB	500	470	CONTROL UNIT, OFFCE USE		PO1008	06/10/1992	West Texas	1000	945
2	44-110	KG	500	475	CONTROL UNIT, AUTOMOTIVE		PO1008	06/10/1992	West Texas	1000	945
1	44-100	EA	500	470	CONTROL UNIT, HOME USE	METAL CASE - IRON	PO1009	06/10/1992	West Coast Electronics	2501	2330
2	44-110	KG	500	475	CONTROL UNIT, AUTOMOTIVE		PO1009	06/10/1992	West Coast Electronics	2501	2330
3	55-100	m	201	170	EVAPORATOR,SERIES 10K		PO1009	06/10/1992	West Coast Electronics	2501	2330
5	66-100	BB	500	475	MOTOR,440AC3PHASE		PO1009	06/10/1992	West Coast Electronics	2501	2330
6	66-110	BB	400	375	MOTOR,7500WATT 110/220AC		PO1009	06/10/1992	West Coast Electronics	2501	2330
7	66-120	BB	400	375	MOTOR,DODGE 440CC GAS POWERED		PO1009	06/10/1992	West Coast Electronics	2501	2330
1	44-102	LB	500	470	CONTROL UNIT, OFFCE USE		PO1010	06/10/1992	West Texas	1000	945
2	44-110	KG	500	475	CONTROL UNIT, AUTOMOTIVE		PO1010	06/10/1992	West Texas	1000	945

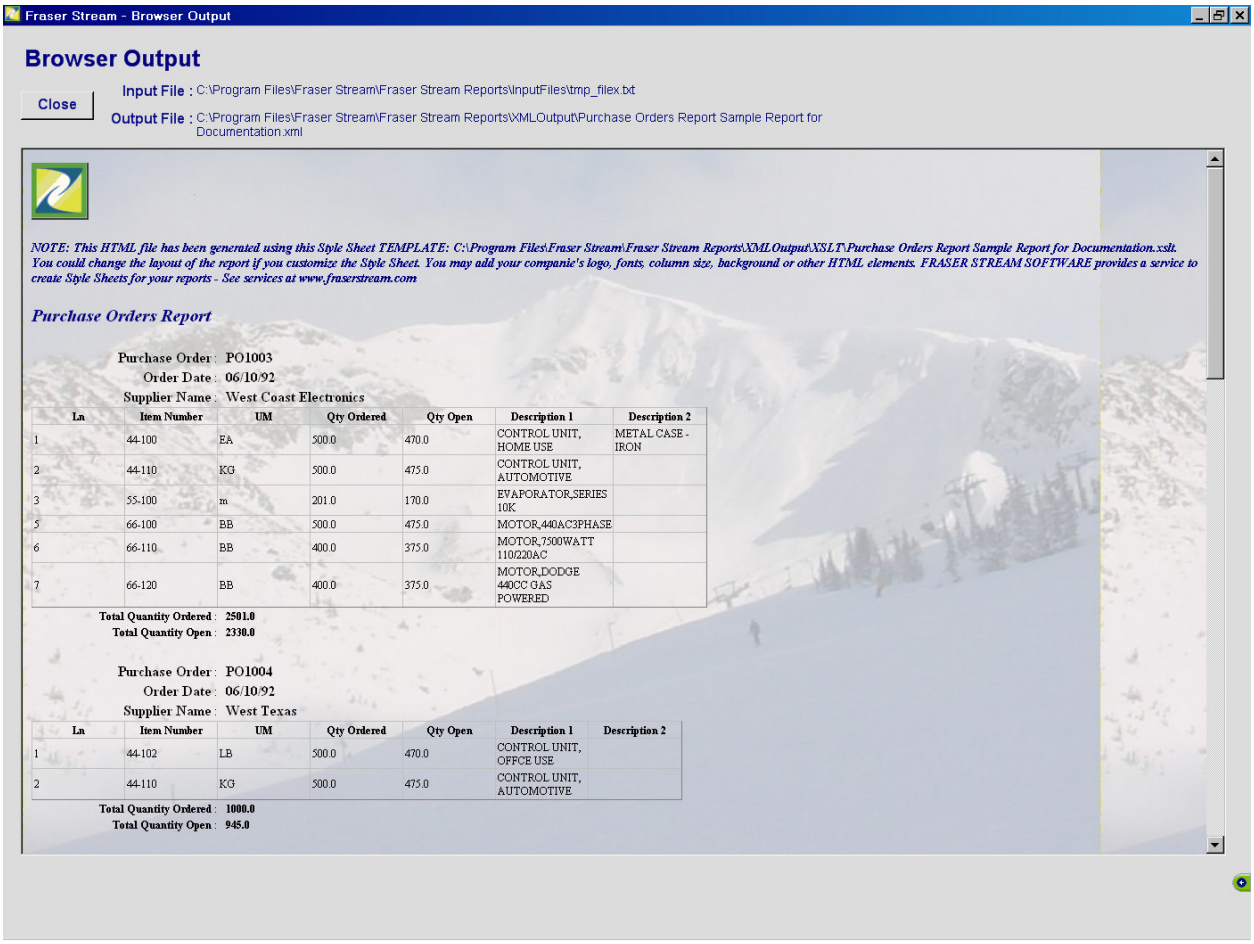
7. Click on the **HTML** button to see the text report in HTML format



8. Click on the **XML** button to see the text report in XML format



9. Click on the **XML with Style Sheets** button to open the XML file using a Style Sheet. You may customize the Style Sheet to display your company's logo, fonts, colors, background or any other HTML elements.



3.3 Changing Text Report Transformation Settings

If you decide that the settings you've created for a particular type of text report are not exactly what you need, rather than creating a whole new set of settings you can modify existing ones. Fraser Stream Integration will allow you to make modifications, to include, exclude, or rearrange the way the information is being extracted.

Begin by selecting the text report from the main menu. Second, select the transformation settings that you wish to change from the drop down list.

In the Tools menu, select **Change Text Report Settings**.

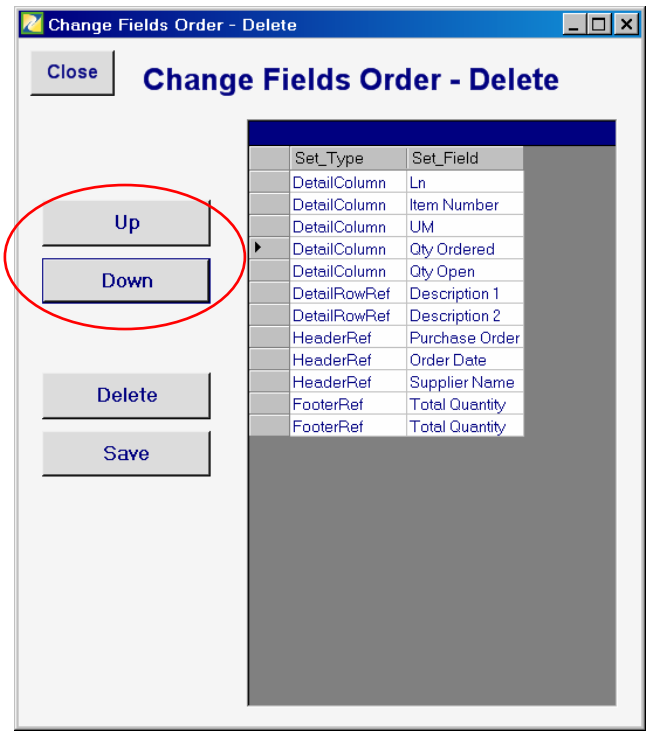
The transformation settings page will appear displaying the settings as they were originally mapped. For the purposes of this tutorial, we will be working with the same set of settings as in section 3.2 for the text report ***Example 01.txt***.

3.3.1 Changing Field Order

You may change the order in which data is extracted from the original text report. By default, the order in which a field is mapped corresponds to the order in which it is displayed in the output. In our example, the detail section was mapped in the following order: ***Line, Item Number, Quantity Ordered, Quantity Open*** followed by the header fields and then the footer fields (refer to section 3.2).

Changing the order of these fields in the output is quite simple.

Click on the **Change Order – Delete** button at the top of the transformation settings page. A window with the field listing will appear.



Note the different types of fields are listed from the transformation settings i.e. Detial Columns, Detail Row References, Header References, Footer References etc…

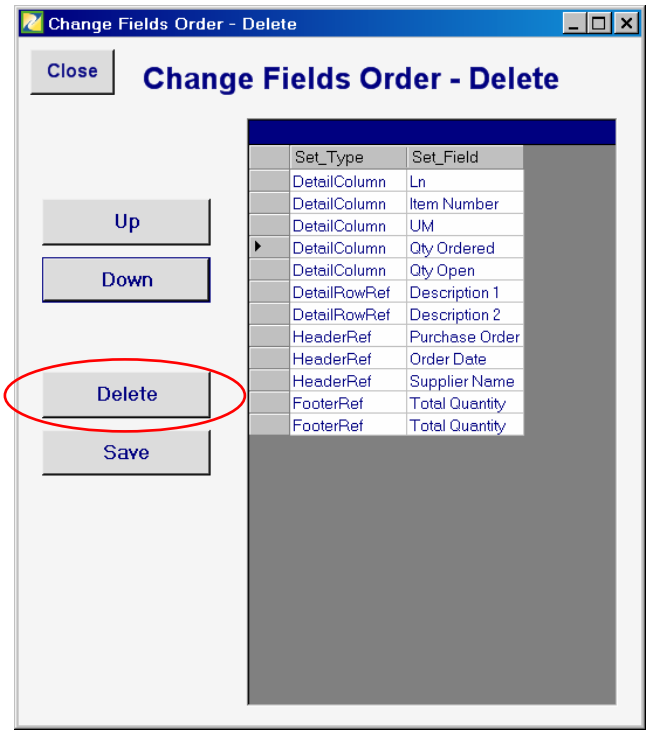
1. **Click on a field in the Set_Type (Settings Type) column to select it**.
   (an arrow will appear next to the row)

2. **Use the Up or Down keys** to change the order of the fields.
3. **Click the Save button** to save the changes.
4. **Click the Close button** to exit the window.

3.3.2 Deleting Fields

Fields may be deleted from existing transformation settings. To delete a field(s) follow the steps from section 3.3.1.

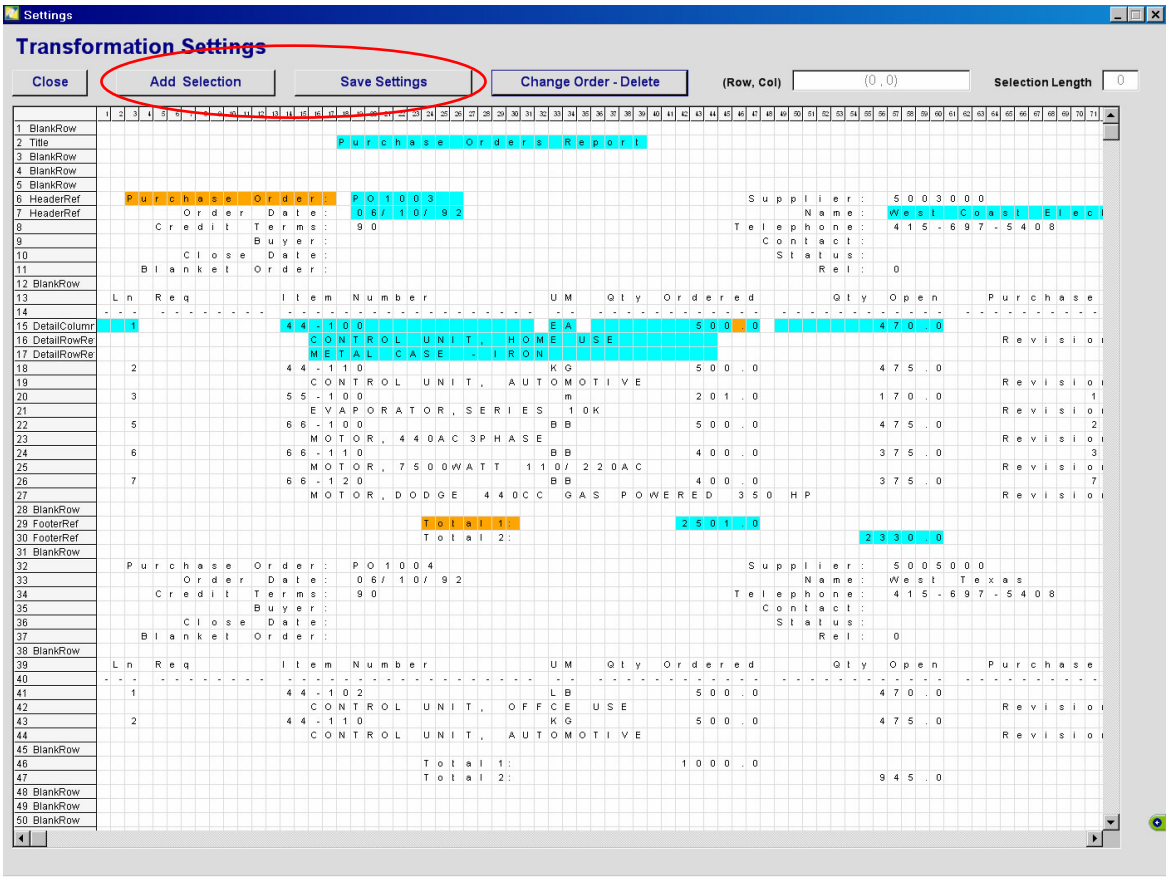
Select the field you wish to delete and click on the Delete button to remove the field from the transformation settings.



3.3.3 Adding Fields

Adding fields to existing transformation settings is relatively straightforward. Once in the transformation settings screen, follow the steps from section 3.2. Simply highlight the relevant cells or coordinates, click the **Add Selection** button and define the selection type.

Remember to click the **Save Settings** button to ensure the old settings are overwritten.


Settings
Transformation Settings
Close
Add Selection
Save Settings
Change Order - Delete
(Row, Col)
(0 , 0)
Selection Length
0
Purchase Orders Report
Purchase Order: PO1003
Order Date: 06/10/92
Credit Terms: 90
Buyer:
Close Date:
Blanket Order:
Supplier: 5003000
Name: West Coast Elec
Telephone: 415-697-5408
Contact:
Status:
Rel: 0
Ln Req Item Number UM Qty Ordered Qty Open Purchase
1 44-100 EA 500.0 470.0
CONTROL UNIT, HOME USE
METAL CASE - IRON
Revisio
2 44-110 KG 500.0 475.0
CONTROL UNIT, AUTOMOTIVE
Revisio
3 55-100 m 201.0 170.0
EVAPORATOR, SERIES 10K
Revisio
5 66-100 BB 500.0 475.0
MOTOR, 440AC 3PHASE
Revisio
6 66-110 BB 400.0 375.0
MOTOR, 7500WATT 110/220AC
Revisio
7 66-120 BB 400.0 375.0
MOTOR, DODGE 440CC GAS POWERED 350 HP
Revisio
Total 1: 2501.0
Total 2: 2330.0
Purchase Order: PO1004
Order Date: 06/10/92
Credit Terms: 90
Buyer:
Close Date:
Blanket Order:
Supplier: 5005000
Name: West Texas
Telephone: 415-697-5408
Contact:
Status:
Rel: 0
Ln Req Item Number UM Qty Ordered Qty Open Purchase
1 44-102 LB 500.0 470.0
CONTROL UNIT, OFFCE USE
Revisio
2 44-110 KG 500.0 475.0
CONTROL UNIT, AUTOMOTIVE
Revisio
Total 1: 1000.0
Total 2: 945.0

3.4 Transformation Settings for CSV and Delimited Files

Fraser Stream Integration provides a special menu for creating transformation settings for CSV or Delimited files. The standard transformation setting screen is geared towards text reports where quite often the final output is a CSV file.

In some cases the user may want to create an XML, HTML, or XML with style sheets output file from a CSV or delimited source file.

3.4.1 Creating/Editing CSV and Delimited File Transformation Settings

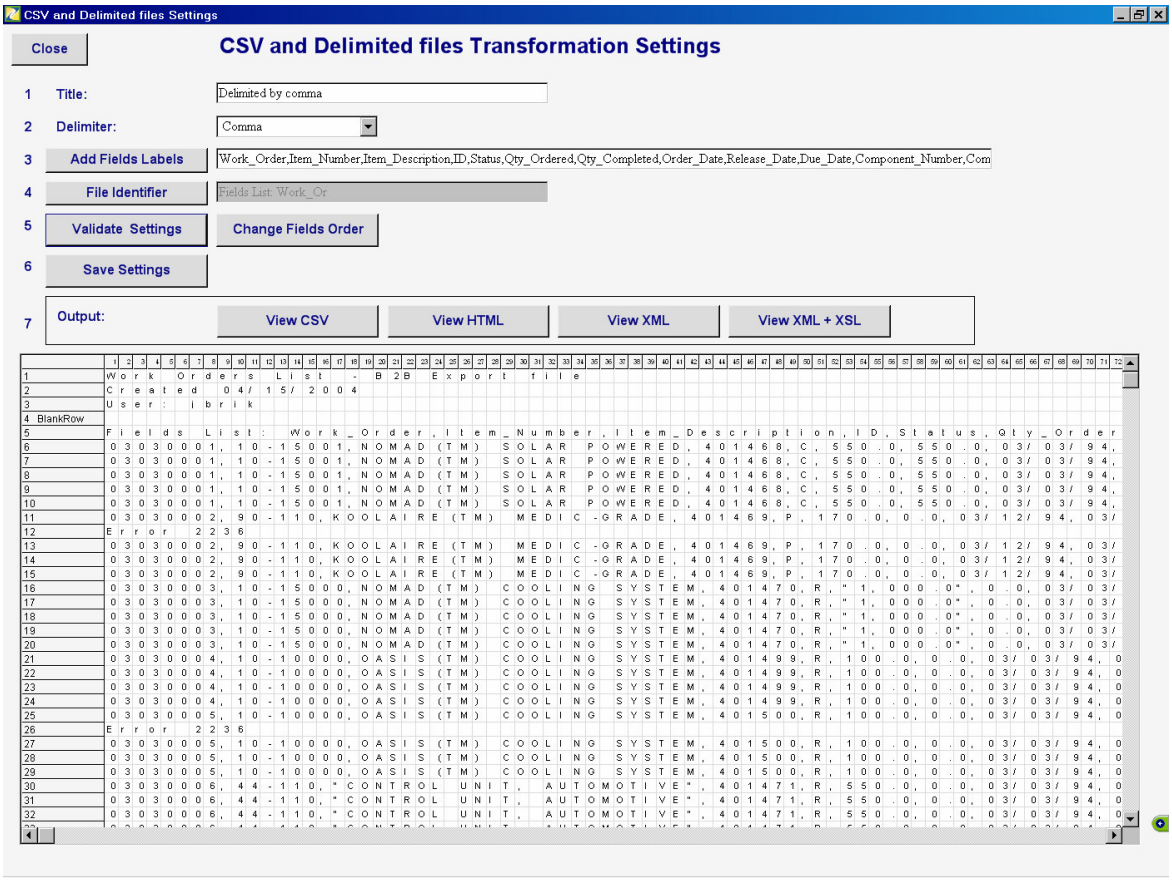
To create new transformation settings for your CSV or delimited file, open Fraser Stream Integration and click on the ***Select a text report*** button.

Select your text report. If transformation settings have already been mapped for this type of report they will appear listed in the drop down list. If none exist the drop down list will appear blank. For the purposes of this tutorial, select the sample file from the following folder:

.\Program Files\Fraser Stream\Fraser Stream Integration\Examples\Delimited by Comma 0012.txt

In the tools menu select **CSV and Delimited File Settings**.
NOTE: Existing delimited settings can also be changed through this same menu – covered in section 3.4.2.

A special **CSV and Delimited File Transformation Settings** page will open.

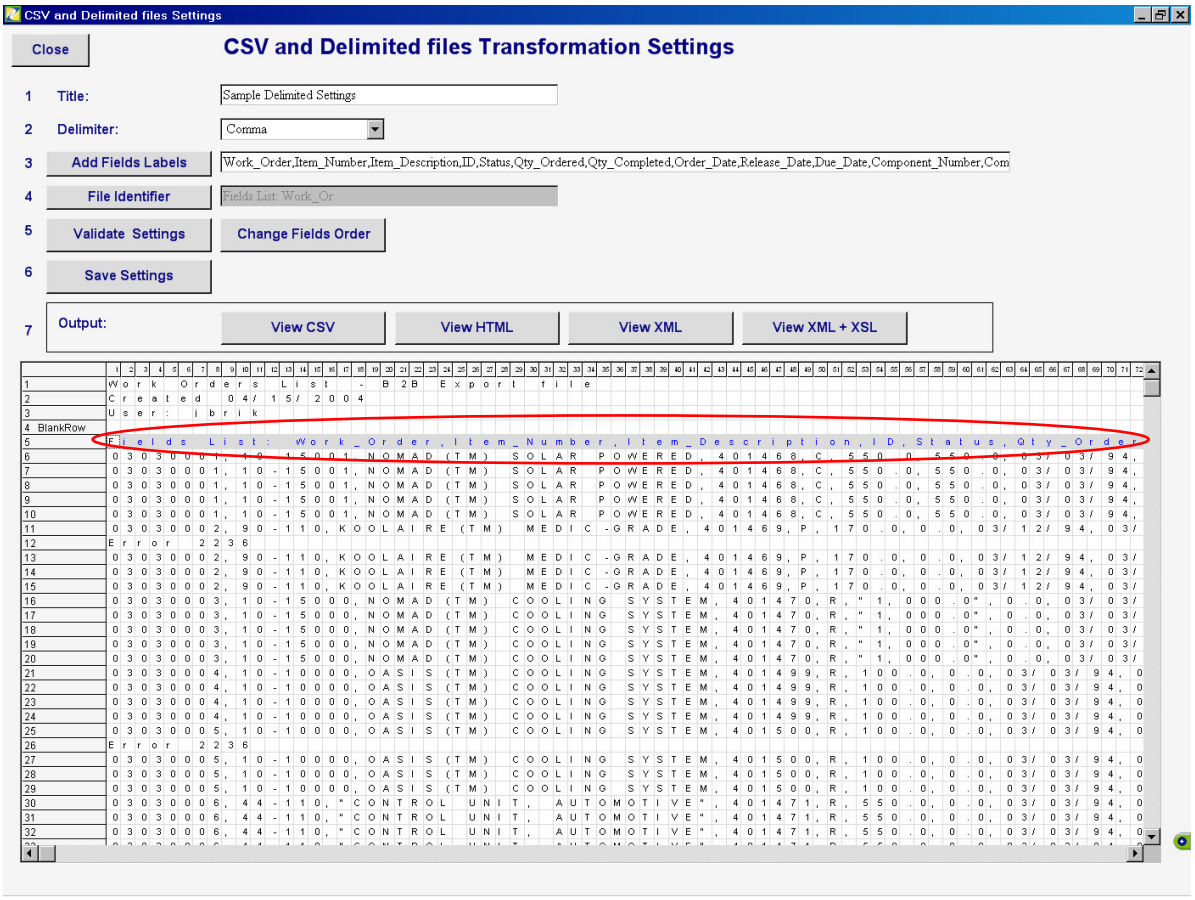


Since the sample file we are using already has mapped settings, the fields shown in the example above are already pre-populated with the setting elements. To create new settings we will simply overwrite these fields.

1. Title
Enter a title for the new settings. As an example enter **Sample Delimited Settings**

2. Delimiter
Specify whether the file is delimited by a comma, colon, space, or tab.

3. Add Field Labels
Field labels must be present in the delimited file and must be defined. To define the row with the field labels, highlight the row by clicking on the row header on the left side of the screen.

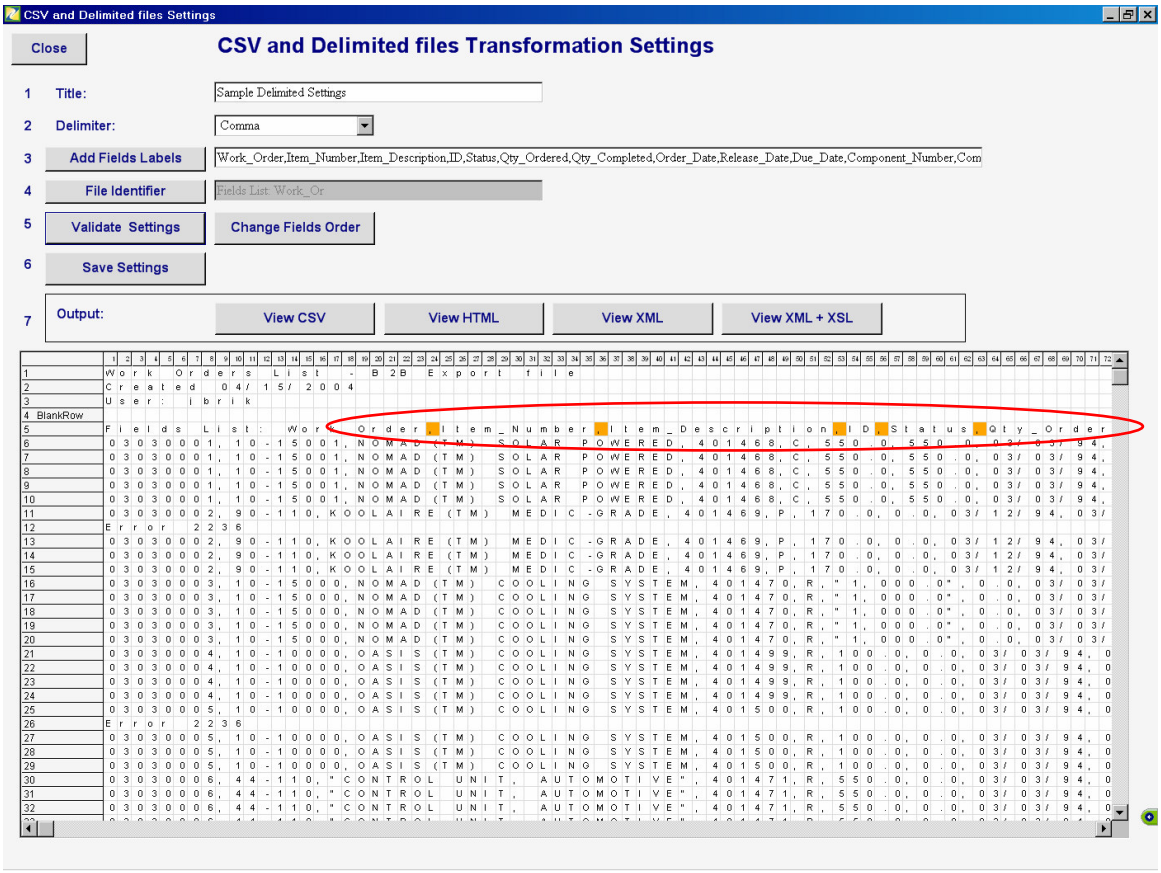


Click on the Add Field Labels button. Fraser Stream Integration will scan the row and assign the field labels using the identified delimiter from step 2.

If the row that contains the labels for each field (or each column) does not exist then you may manually input the column or row labels in the **Add Field Labels** field. Ensure that each entry is separated by the same delimiter that you identified in the **Delimiter** field (step 2). The number of labels must match the number of delimited fields in each line.

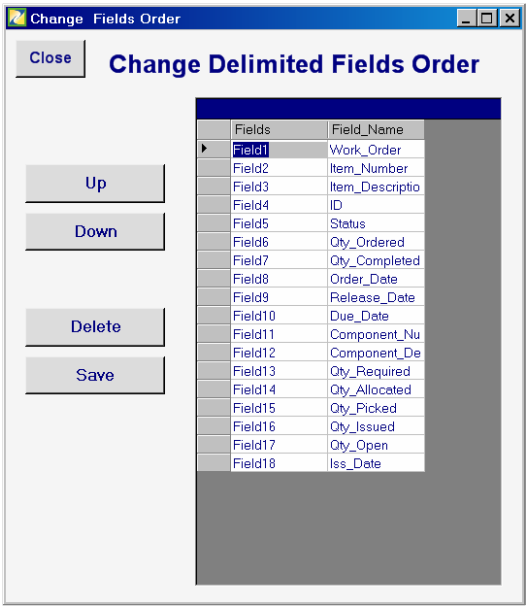
4. File Identifier
Fraser Stream will automatically assign a File Identifier. This is a unique string of characters used by the application to identify the csv or delimited file. This unique identifier string is used to by Fraser Stream Integration to determine which transformation settings to apply when the file is opened.

5. Validate Settings
Click on the validate settings to ensure all the fields have been identified. Fraser Stream Integration will identify the field delimiters within the row identified in step 3.



6. Change Field Order

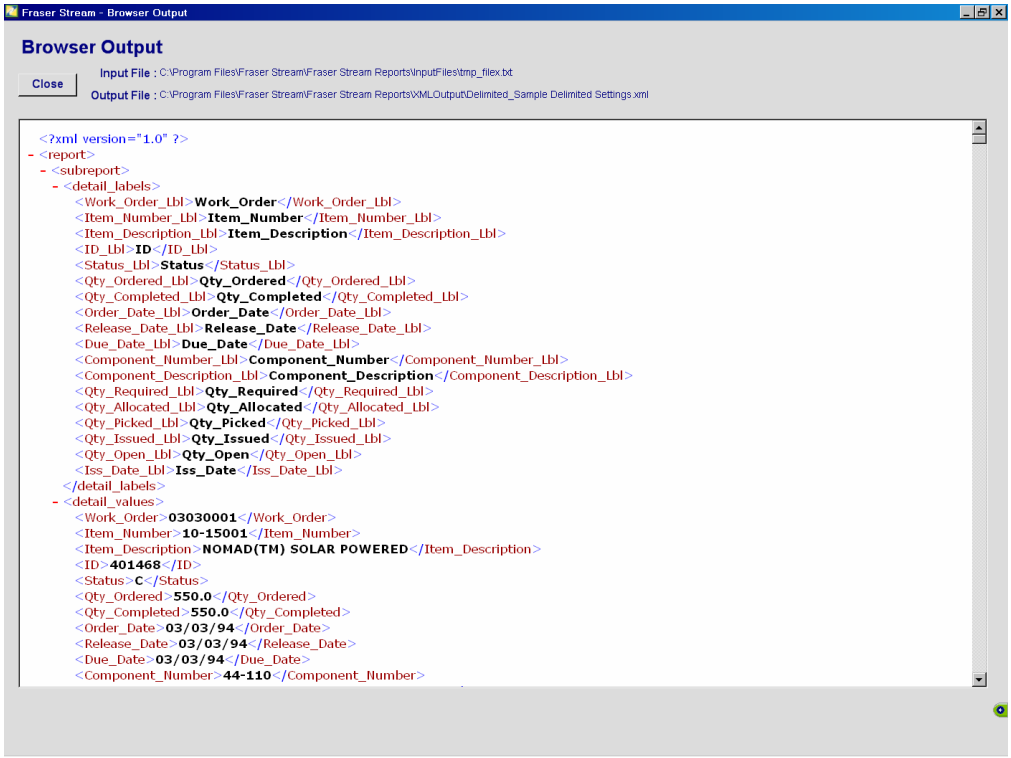
Click on the change field order button to bring up the field order window. Note the Validate Fields button must be pressed first.



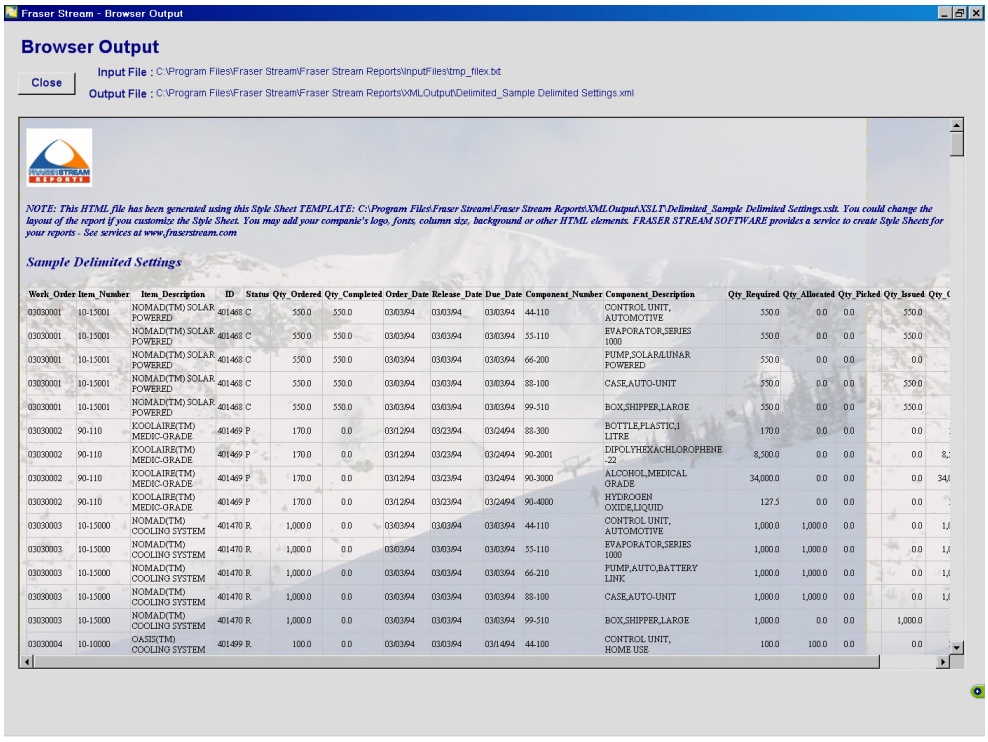
Highlight the field you want to move by clicking within the **Fields** column. Use the **Up** and **Down** buttons to change the field order on the output file. You may also delete fields by using the **Delete** button. Be sure to **Save** your field order settings.

7. Save Settings

Click the Save Settings button to save the overall delimited transformation settings. At this point you may preview your output files by clicking on the various output buttons. The current file viewed as an XML would appear as follows:



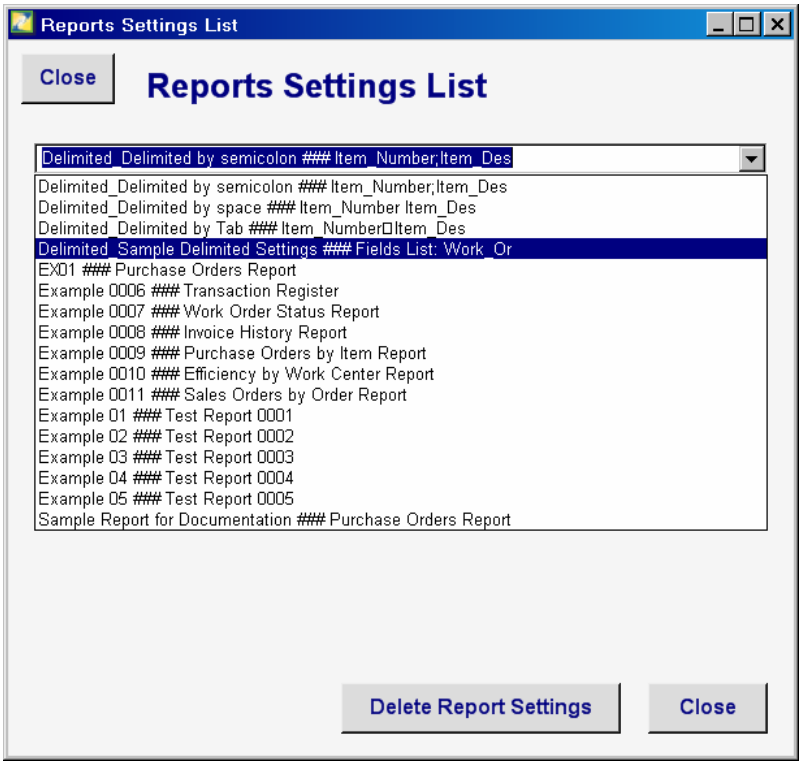
The same file as XML with Style Sheets viewed through Fraser Stream Integration.



3.5 Managing Transformation Settings

Fraser Stream Integration saves every single set of transformation settings and stores these in a special settings file. This file may be maintained and old settings may periodically be deleted for reports that are no longer important or available.

Under Tools in the Main Menu you will find a Report Settings List.



Highlight the settings you wish to delete and click the Delete Report Settings button. Be sure to select the correct settings as they can not be recovered once deleted.

3.6 Sharing Transformation Settings

Creating transformation settings for your text reports is the most time consuming task when using Fraser Stream Integration. Fortunately this task need only be performed once for each type of text report.

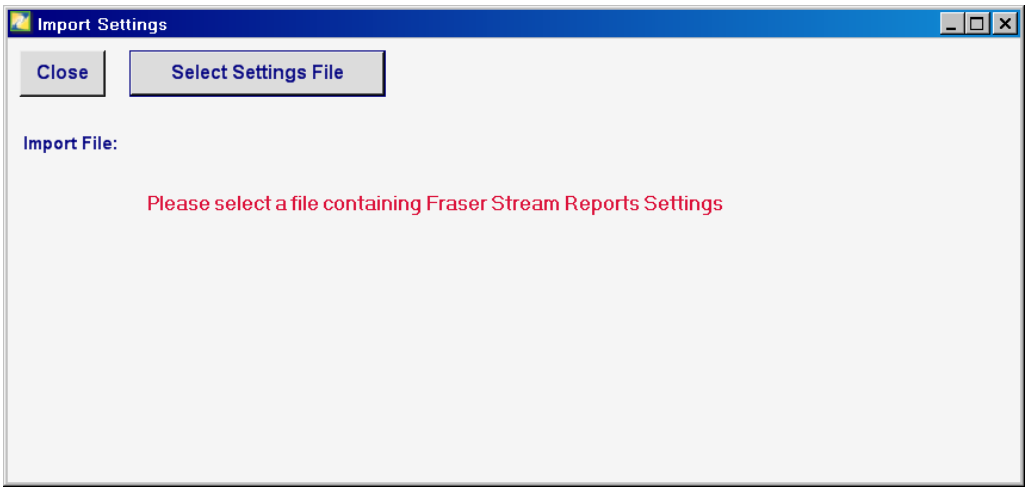
To save time, Fraser Stream Integration allows you to share your transformation settings with other Fraser Stream Integration users. The process involved importing someone else's transformation settings – any new report settings will automatically be appended to your personal settings file.

1. If you want to share your settings with someone else, begin by copying your settings file: *.\Program Files\Fraser Stream\Fraser Stream Integration\SetFiles**FraserSet.fss***

2. Send the settings file (either copy to user's folder or email to user) to a place where the other user can access it. If emailing, the recipient will need to save the file somewhere on their computer or network.

3. The recipient needs to start Fraser Stream Integration

4. In the Main Menu select Import Settings from the Tools menu.



5. Click the Select Settings File button.

6. Select the received settings file from the local drive or network location where it was saved.

7. Fraser Stream Integration will automatically append any new settings files that do not already exist in the recipient's personal settings file. Fraser Stream will indicate how many records were appended.

4 Special Functions

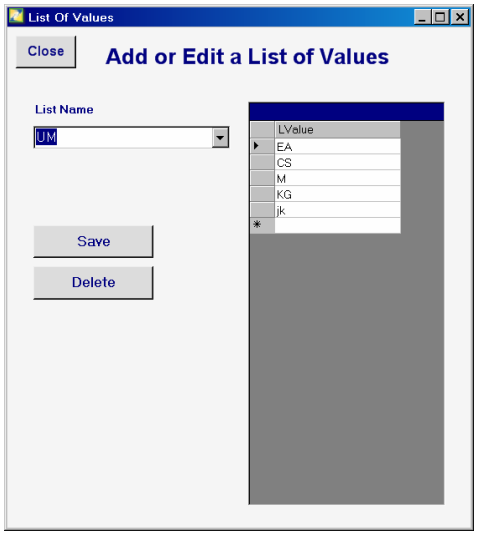
Fraser Stream Report includes several special functions included to make your text file transformation easier.

4.1 List of Values

If you are unable to find a character (i.e. slash, dot, comma etc…) to serve as a suitable Detail Pivot then you can use a set of values that appear within the text report.

For example a text report may contain a **Units of Measure** column in the detail section of the report. The values found in this column can be defined as the detail pivot. The key is that you define all the possible units of measure in that report in Fraser Stream Integration' List of Values table.

The List of Values table can be found under the Tools menu.



Create a **List Name** by typing in a name in the List Name field. Alternatively you can use one of the existing List Names if applicable. A new List Name will create a table on the right side of the List of Values window. Key in all the possible values that appear in your text report; each time the transformation occurs, Fraser Stream Integration will search for these values to determine if the line is to be included as a report detail.

4.2 XML with Style Sheets

As mentioned in previous sections, one of the output options is XML with Style Sheets. Style Sheets allow you to customize the look and feel of your report while still retain the XML characteristics of the file.

Within the Fraser Stream Integration root directory there exists the following folder:

C:\Program Files\Fraser Stream\Fraser Stream Integration**XMLOutput**\

Within this folder you will find two subfolders called **Images** and **XSLT.**

The former can be used to store company logos etc… for use within your style sheets.

The latter contains the actual XSLT files or style sheets that define the look and feel of the report.

Contact US

If you any inquiries about Fraser Stream Report or require assistance with the application please do not hesitate to contact us.

Email: **support@fraserstream.com**

Phone: 1 604 943 0813

Fraser Stream Software provides services to create Transformation Settings and Style Sheets for your reports. See the Services section at **www.fraserstream.com**

To register Fraser Stream Integration fax a Purchase Order to: 1 604 608 5418 or by email to **sales@fraserstream.com**