



# SHIPPING SOLUTIONS<sup>®</sup>

export documentation software

## DATA EXCHANGE MANAGER INSTRUCTIONS



export documentation software



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## Shipping Solutions Professional



## About Shipping Solutions®

Congratulations on your decision to use Shipping Solutions, America's #1 selling export documentation and compliance software. Shipping Solutions is used by thousands of exporters who save time and money every time they prepare a new export shipment.

We are proud to offer three versions of Shipping Solutions: Classic, Professional and Enterprise. Shipping Solutions Classic is a great tool for small companies to begin preparing their export documents faster, easier and cheaper than they ever thought possible.

In addition to providing all the same features as the Classic version, Shipping Solutions Professional gives you more—more forms, more ways to share data and forms, and more ways to ensure that your exports comply with export regulations.

Shipping Solutions Enterprise includes all the features and functionality of the Professional version along with the ability to install the client software on an unlimited number of user's computers.

This User Guide explains the installation and use of the Shipping Solutions Classic, Shipping Solutions Professional, and Shipping Solutions Enterprise software.

The features described in this User Guide that are only found in the Shipping Solutions Professional and Shipping Solutions Enterprise versions are clearly marked as Shipping Solutions Professional version only. All screenshots are taken from Shipping Solutions Professional.

# Software Overview

Whether you are an experienced exporter, an experienced computer user, or inexperienced at both, Shipping Solutions is the easy way to enter your export orders and complete your standard export documents.

By utilizing the program's extensive databases and the EZ Start screens, you can reduce the time it takes to enter your export information by up to or more than 80 percent. And because the software allows you to print standard export forms on plain paper from your inkjet or laser printer, it eliminates the need to purchase and stock expensive pre-printed forms.

With Shipping Solutions, you simply enter your export information on the EZ Start screens, select the documents you need to print, and in a matter of just a few minutes your paperwork is done and your products are ready to ship.

To make the program even easier to use, Shipping Solutions allows you to key in or import your product information, customer information, and all the intermediate consignees, forwarding agents and other miscellaneous contacts you ever use into separate databases. For even more efficient use, you can import orders into Shipping Solutions Professional from almost any accounting, order entry, or ERP system.

Current subscribers to the Shipping Solutions Professional Annual Maintenance Program (AMP) can also check to see what documents they need to produce for exporting to specific countries, check the parties in their transaction against the various government and United Nations restricted party lists, and check their products against U.S. Export Regulations to determine if they need to apply for an export license.

**Please Note:** After completing your export documents, you must carefully review the printed form(s) before use. Because Shipping Solutions does not restrict or limit the way you enter information into each field, InterMart, Inc. cannot and does not in any way guarantee the accuracy of the completed forms. InterMart strongly recommends that everyone involved in export documentation get thorough and complete training from government or private training companies.

## Setup Data Exchange Manager (Professional Only)

Shipping Solutions Professional includes a Data Exchange Manager (DXM) that allows you to import orders from your company's accounting, order-entry or ERP system into Shipping Solutions Professional and produce your export documents, file your export information electronically through the Automated Export System (AES), and fulfill your export compliance requirements.

There are three primary advantages of using the DXM:

1. Dramatically reduce the time it takes to complete your export documents. By importing one or more orders into Shipping Solutions Professional, a company may import almost all of the data required to complete the various export forms.
2. Eliminate redundant databases. Because you are importing an entire order or orders into Shipping Solutions Professional, you are typically importing all the contact and product information from your company's system. This eliminates the need to import, store and update your contact and product information in the Shipping Solutions databases. Since most accounting, order-entry and ERP systems don't allow you to store intermediate consignee and freight forwarder information, you may still find it advantageous to use those databases in Shipping Solutions Professional.
3. Reduce data-entry errors. Because you are importing data from your company's system, you don't need to retype important information. No retyping means no chance of new typos.

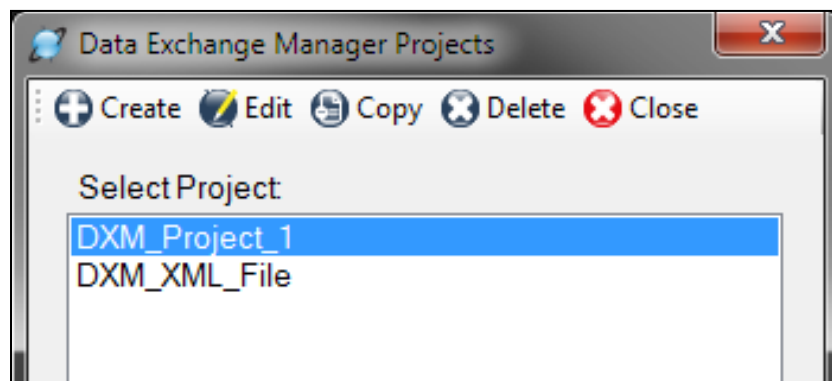
There are three primary ways the DXM can be used:

1. File-based processing requires that you configure your accounting, order-entry or ERP system to generate a single XML file with a specific file name or matching header and detail delimited text files with specific file names. This file or matching files will include one or more orders and can be saved in a specific location that you specify. Whenever you then run the DXM either manually or automatically, it will grab the order information and automatically insert it as a new shipment record or shipment records in Shipping Solutions Professional. At this point you can review the imported data, enter any missing data or change any data that needs to be changed, and then create your export documents, file through AES, and run your export compliance screenings.
2. Folder-based processing allows you to identify a specific folder that the DXM will monitor and, when the DXM is triggered, it will check the folder and import the order information from the single XML file or the matching delimited text files. When you manually or automatically run the DXM, it will grab the order information and insert it as a new shipment record or shipments records in Shipping Solutions Professional.
3. An ODBC connection allows Shipping Solutions to directly communicate with your business application such as your accounting, order-entry, or ERP system. [This method is discussed in detail starting here.](#)

Finally, there are three different ways you can run the DXM:

1. You can run the DXM by going to the Shipping Solutions Professional **Tools** tab and clicking on the **Run Data Exchange Manager (Import Shipments)** screen. [See the instructions for running the DXM here.](#) This is the only method you can use with an ODBC connection.
2. You can run the DXM from a script that calls the **dxmRun.exe** file, which will initiate the import process. This script could be used to generate the XML file or delimited text files from your accounting or ERP system and then call dxmRun.exe at the end of that process, or it could be part of some other process your company uses.
3. You can create a Windows Service that runs on a schedule and checks the folder you specified in the folder-based processing described above so that whenever a file or files exist in the folder with the proper naming convention, they will be imported into Shipping Solutions Professional.

### Setting Up the DXM Starts by Creating or Editing a Project

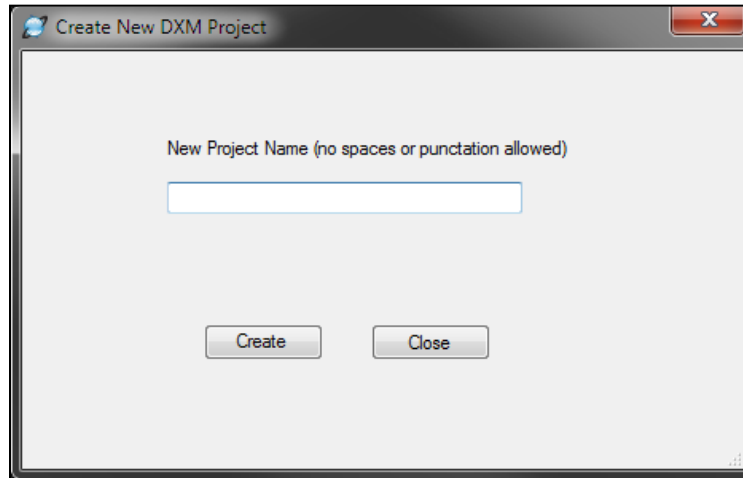


## Configuring the Data Exchange Manager

Before you can utilize the DXM, you must first configure it to work with your accounting, order-entry or ERP system. Begin by going to the **Admin** tab in Shipping Solutions Professional and clicking on **Setup Data Exchange Manager**. From here you can choose to create a new project by clicking on **Create** on the program's toolbar, or you

can choose an existing project from the **Select Project** list. You can create as many different projects as you need, so you can import data from multiple sources if you wish.

### Create New Project Screen



If you choose to create a new project, the **Create New DXM Project** window will open. Enter a name for this project without any spaces or punctuation, and click the **Create** button.

Regardless of whether you have decided to create a new project or use an existing project, select that project from the **Select Project** list and click on the **Edit** button. This will open the **Setup Data Exchange Manager** window for this project.

## Setting Up the Data Exchange Manager

Setup Data Exchange Manager - DXM\_Project\_1

Preview Data Validate Reset Mapping Mapping Save Close

File Type:  Text-Delimited  XML  ODBC

Processing Type:  File Based  Folder Based

Add Fields from Product Database

Select Delimiter: Pipe

Check if First Record Contains Column Names

Header File: C:\ProgramData\Intermart\SSProfessional\_9\DXM\TestData\DXMTest-Header-Pipe.bt

Detail File: C:\ProgramData\Intermart\SSProfessional\_9\DXM\TestData\DXMTest-Detail-Pipe.bt

Location of Files After Processing: C:\Program Files (x86)\InterMart\SSProfessional\_9\reports

Copy Processed Files to Folder  Logging in Debug Mode

Setup Package

As mentioned above, you can choose to import data from your accounting or ERP system into the Shipping Solutions Professional software using comma-, tab- or pipe-delimited text files, using an XML file, or using an ODBC connection. In the **File Type** box, choose **Text-Delimited**, **XML**, or **ODBC**.

Next choose your **Processing Type**. Choose either File Based or Folder Based. When using an ODBC connection, the only option is File Based. The File Based processing type requires that you generate an XML file with a specific name or two delimited text files (a header and a detail file) with specific names. The DXM allows you to process one file at a time (or one header/detail pair if you're working with text-delimited files) or all the files in one folder. To process one file, choose **File Based**. To process all files in a folder, choose **Folder Based**.

Continue following the setup instructions below depending on which file type you have chosen. Skip ahead to the section titled **Use XML Files** if you are using that option. Skip ahead to the section titled [Use an ODBC Connection here](#) if you are using that option.

### Use Text-Delimited Files

In order to import your orders into Shipping Solutions Professional using text delimited files, you need to create two files from your accounting or ERP system: the header file and the detail file. The header file contains all the information that applies to your entire shipment including exporter, consignee and shipping information. The detail file includes information related to each separate line item of your order. Every order can have multiple line items.

Both the header and detail files must have a linking field that ensures that the line items for an order will always stay tied to that order. The linking field must be the first column in both the header and detail file. If you have field titles, the title of the linking field must be the same in both the header and detail file. Possible options for the linking field include the invoice number or the shipment number. The field used as the linking field can also be used for another field. For example, if you use the invoice number as the linking field, you can still also map it to the invoice number field in the header file.



[The Appendix here](#) shows the fields available to import and whether they are in the header or detail text file. It also shows the acceptable format for each field.

There are hundreds of fields available to import, but at a minimum, you will want to include the following fields from your ERP system in your header text file:

### **Linking field**

Use a number that identifies this shipment and can be used to link the header record to the line items in the line item detail file. Companies often use Commercial Invoice Number, Order Number or PO Number. This should be the first column in the header file. This field can also be mapped to its appropriate field. Mapping is discussed later in this section.

### **Exporter Company Name, Address1, Address2, City, State, Zip and Country**

If you are the exporter, this would be your company name and address. States and countries must be two-character codes. For example, if your company is located in Minnesota, you would need to show the state as MN and the country as US. If your company name and address are not available in your ERP system, you can type the Exporter name and address as default values on the Mapping screen when you get to that part of the setup.

### **Ultimate Consignee Company Name, Address1, Address2, City, Postal Code, and Country**

This is the customer that is the ultimate destination for your goods. Just like with the exporter record, the country code must be two characters.

### **Date**

Include a date for this shipment such as Proforma Invoice Date, Commercial Invoice Date or Date of Export. Date fields must use the MM/DD/YYYY, YYYY/MM/DD or YYYY-MM-DD format.

At a minimum, you will want to include the following fields from your ERP system in your line item detail text file:

### **Linking field**

Use a number that identifies the shipment that the line item belongs to. This should be the first column in the line item detail file and will link the line items to the header record in the header file. Companies often use Commercial Invoice Number, Order Number or PO Number as the identifying field. Since a shipment can have many line items, each line item must have this field as the first column of the record.

### **Product ID**

Some companies do not have Product IDs for their items, so it is not a required field. However, if you have one, it should be included to identify the product as well as to make use of the Product Supplement, [which is described here](#).

### **Product Description**

This is the name of your item. It can be mapped to both the Product Description and Schedule B description, although Schedule B descriptions are generally more generic than Product Descriptions.

### **Quantity**

This is the number of a particular item included on this shipment. Map the quantity to both the Quantity for Invoice and Quantity for Packing List fields.

### **Sales Unit of Measure**

This is the unit of measure that you use to sell your item such as piece, box, etc.

### **Unit Price**

This is the price per item.

### **Extended Price**

This is the Quantity multiplied by the Unit Price. If you don't map the Extended Price, then the user will have to tab

through the quantity and price in Shipping Solutions to get the extended price to calculate. If your shipments have many line items, this is a time-consuming task.

If you are using folder-based processing, it's very important you pay close attention to how the files are named. Either the prefix or the suffix of the name must designate whether it is a header or detail file. The rest of the file name must be identical for both file types; for example, **NewOrder\_Header.txt** and **NewOrder\_Detail.txt**.

Once you have created the header and detail text files from your accounting or ERP system, you can test the files to ensure they will work with the DXM by using the testing tools included with the software. See the section titled [DXM Testing Tools here](#) for instructions on running the **Text File Validator**.

Once you have created your two text files and confirmed they will work with the DXM, complete the Setup screen as described below:

### **File Type**

Since this is a text-delimited project, click the **Text Delimited** button.

### **Processing Type**

The DXM allows you to process one set of header and detail files or all the sets of files in a certain folder. If you will only have one header and detail file to process at a time, choose **File Based**. If you want all the properly named files in a specified folder to be processed, choose **Folder Based**.

### **Add Fields from Product Database**

If you want to supplement the data you are importing from your accounting or ERP system, check this box. Click **Setup** to designate the fields you wish to supplement. [See Supplement Data from the Product Database here](#) for more information.

### **Package**

If you want to zip up the DXM files to be run on a different computer, click **Package** and identify the location where you wish to save the zip file. This should be done after the setup is complete and fully tested.

### **Select Delimiter**

Select the type of delimiter that divides your data fields: comma, tab or pipe. Tab or pipe delimiters are recommended especially if your data has commas, which will cause the DXM to misread your data.

### **Check if First Record Contains Column Names**

Check this box if you have column names in your header and detail files. Column names are recommended to make the data mapping process easier.

### **Header File (File Based only)**

Click on the ellipsis button to display a search window that will allow you to navigate through your computer to locate the header file of your shipment. Once you have located it, click on the file and then click **Open** to select it.

### **Detail File (File Based only)**

Click the ellipsis button to display a search window that will allow you to navigate through your computer to locate the detail file of your shipment. Once you have located it, click on the file and then click **Open** to select it.

### **Source Folder (Folder Based only)**

Click the ellipsis button and locate the folder containing the text files to be processed.

### **File Part (Folder Based only)**

In order for the DXM to know which files contain header information and which files contain detail information, you need to specify the file naming convention you are using. Click either **Prefix** or **Suffix** depending on which part of the file name is used and enter the prefix or suffix in the **Header File Part** box and **Detail File Part** box. For example, if all header files begin "Header" enter "Header" in the Header File Part box.

### **Location of Files After Processing**

Click the ellipsis button to display a search window that will allow you to navigate through your computer to

identify where you would like your text files to be moved after the DXM runs. When moved the processed files will be renamed with the file format YYYYMMDD\_HHMMSSXX<filename> where XX is either AM or PM.

### **Copy Processed Files to Folder**

When you are first setting up a DXM project, you may need to run the import of the delimited text files more than once to ensure the mapping and other configurations are correct. To make this process easier, you should leave this box unchecked so the files you are using to test the import stay in the designated folder. Once your testing is complete, and you are ready to move to the production phase, check this box so the processed files automatically get moved to the folder identified in Step 11, listed above. For folder-based projects, the box is always checked.

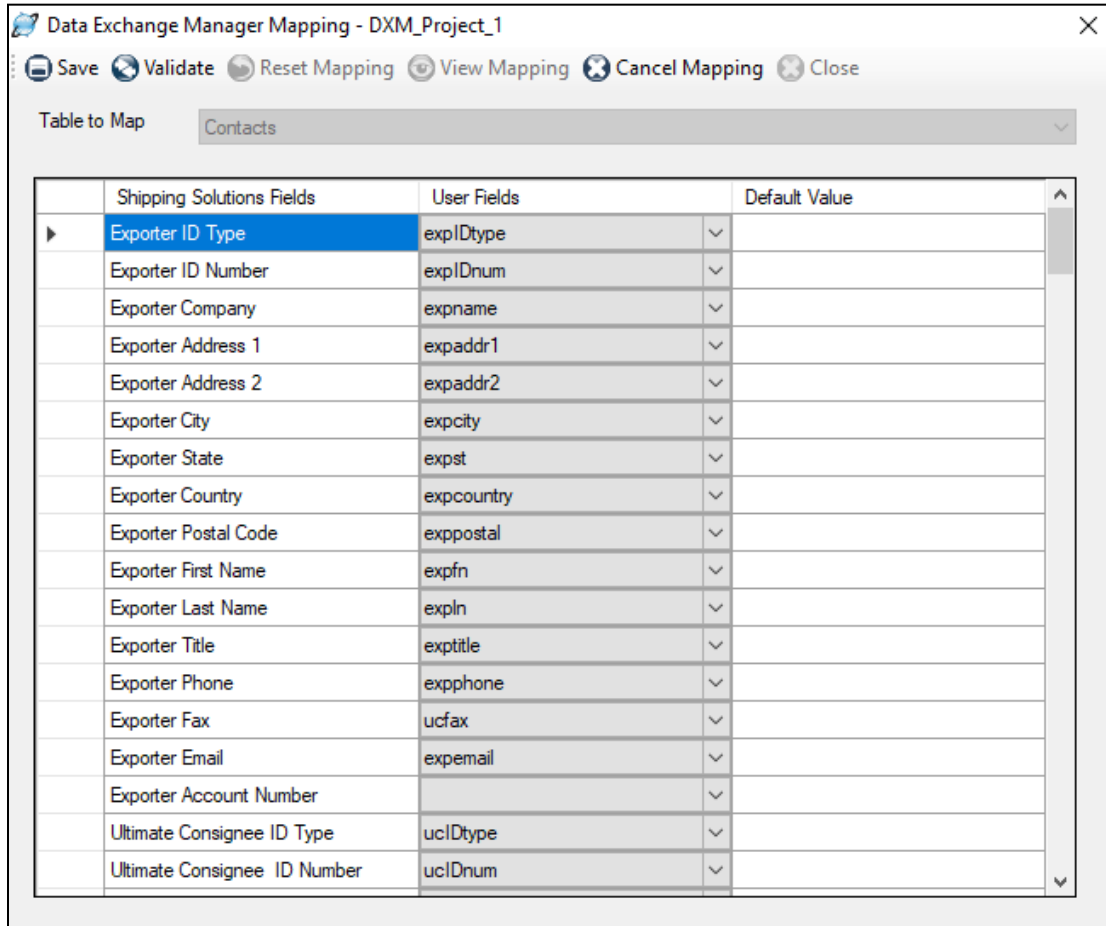
### **Logging in Debug Mode**

Check this box if you are testing the import process and you want the DXM to write a more detailed log for the file import. The more detailed log may make it easier to diagnose any problems you encounter during the setup process.

You must now map the fields in your text files to the fields in Shipping Solutions Professional. For a detailed list of all the fields available for mapping, go to the **Data Exchange Manager File Structure** pages [located in the Appendix here](#).

If you already have mapping in place and have changed the text files significantly or just want to start over with your mapping, click **Reset Mapping**. This will wipe out all the mapping, so only click this button if you are sure you want to start over. To begin or continue the mapping process click **Mapping**.

## Mapping Data Fields Using the Data Exchange Manager



The Shipping Solutions fields are divided into six tables. Begin by highlighting **Contacts** in the **Table to Map** drop-down list. The Shipping Solutions fields are listed in the left column.

Click on the drop-down list in the middle column. You should see your column headings from your header file. If you do not have column headings, the fields will appear as A0, A1, A2, etc. For each Shipping Solutions field choose the corresponding field in your text file from the drop-down list. You do not need to map every field; only map the fields for which you have data.

The right column can be used to enter a Default Value for a field. That default value will be used for every shipment pulled in using this DXM project.

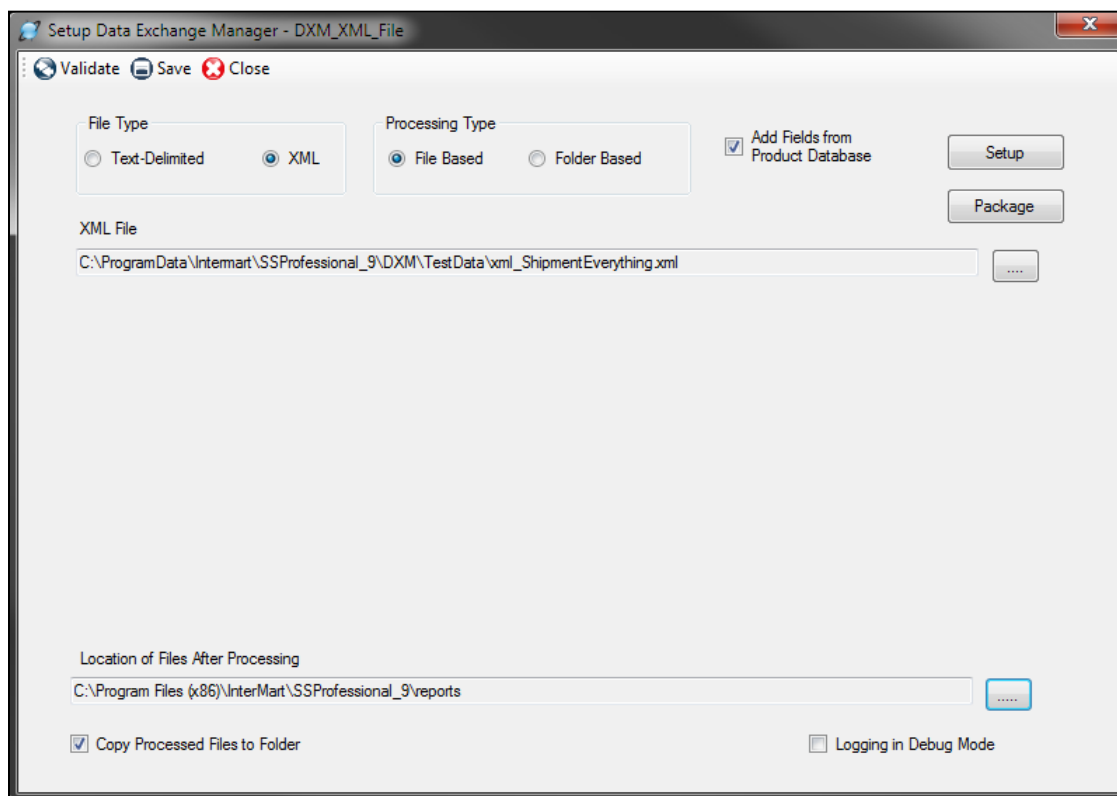
Once you have finished selecting the correct User Fields and entering any Default Values you want to use, click **Save**. You must move off a mapped field before saving in order for that field to be saved. If you want to exit the data mapping screen without saving your changes, click **Cancel Mapping**.

Next select the **Header-Invoice** table and repeat the process. Continue down the list of tables mapping all the information you have in your header and detail text files and entering any default values. You do not have to map all of the tables. Click **View Mapping** to view or print a list of the fields you have mapped. Click **View All Fields** to see all fields available for mapping, and then click **View Mapped Fields** to see just what you've mapped.

Click **Close** to close the Data Mapping screen.

Because you are using text-delimited files with the DXM, you can skip the next section and proceed to [Supplement Data from the Product Database section here](#).

## Configuring the DXM Using a Single XML File



## Use XML Files

Working with the XML data format in the Data Exchange Manager greatly simplifies the process of moving data from your accounting or ERP system into Shipping Solutions Professional. However, it does require that the files conform to the schema provided with the software.

The schema can be found in the **c:\Program Data\InterMart\SSProfessional\_9\DXM\schemas** folder. The **ssdataDXMschema\_09.xsd** schema provides XML structure validation and validation of elements to correspond to the database's expected data types, and in some cases, the fields' allowed values. You can also see the list of available fields and other information in the [Data Exchange Manager file structure here](#).

If you look at the schema, you will see that the following tables are required: **tbl\_doc\_header**, **tbl\_document\_contacts**, and **tbl\_item\_details**. The other tables are optional. The tables must be in the order that they appear in the schema, but the elements within the tables can be in any order. None of the elements are required.

There are hundreds of fields available to import, but at a minimum you will want to include the following fields from your ERP system in your XML file:

### **Exporter Company Name, Address1, Address2, City, State, Zip and Country**

If you are the exporter, this would be your company name and address. These fields would be identified as **contact\_type** "EX" in the XML file. States (**contact\_state**) and countries (**contact\_country**) must be two-character codes. For example, if your company is located in Minnesota, you would need to show the state as MN and the country as US. If your company name and address are not available in your ERP system, you can programmatically add those as default values in your XML file.

## Ultimate Consignee Company Name, Address1, Address2, City, Postal Code, and Country

This is the customer that is the ultimate destination for your goods. These fields would be identified as contact\_type “UC” in the XML file. Just like with the exporter record, the country (contact\_country) must be two characters.

## Date

Include a date for this shipment such as Proforma Invoice Date (proforma\_inv\_date), Commercial Invoice Date (comm\_inv\_date) or Date of Export (date\_of\_export). Date fields must use the YYYY-MM-DD format.

## Product ID (prod\_id)

Some companies do not have Product IDs for their items, so it is not a required field. However, if you have one, it should be included to identify the product as well as to make use of the Product Supplement, [which is described here](#).

## Product Description (prod\_desc)

This is the name of your item. It can be mapped to both the Product Description and Schedule B description, although Schedule B descriptions are generally more generic than Product Descriptions.

## Quantity for Invoice (quantity)

This is the number of a particular item included on this shipment.

## Sales Unit of Measure (sales\_unit\_of\_measure)

This is the unit of measure that you use to sell your item such as piece, box, etc.

## Unit Price (unit\_price)

This is the price per item.

## Extended Price (ext\_price)

This is the Quantity multiplied by the Unit Price. If you don't map the Extended Price, then the Shipping Solutions user will have to tab through the quantity and price to get the extended price to calculate. If your shipments have many line items, this is a time-consuming task.

The docsets element must define the schema location and namespace as shown below.

### XML Header Info

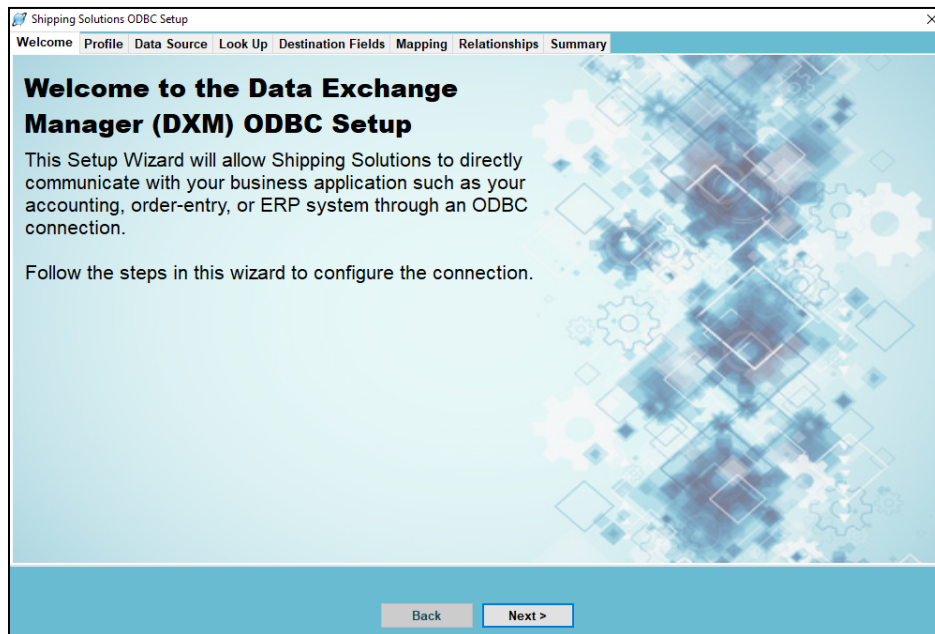
```
<?xml version="1.0" encoding="utf-8"?>
<docsets xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
          xmlns="urn:SsproNamespace"
          xsi:schemaLocation="urn:SsproNamespace ssdataDXMschema_09.xsd">
<docset>
  Your Document XML as defined by the schema.
</docset>
</docsets>
```

Once you have created your XML file from your accounting or ERP System, you can test the file using the XML File Validator by clicking the **Validate** button ([see here](#)). Follow the steps below to complete the setup screen:

1. **File Type**—Since this is an XML project, click **XML**.
2. **Processing Types**—The DXM allows you to process one XML file with a consistent name or all files in a folder. If you want to process one file at a time, choose **File Based**. If you want to process all files in a folder, choose **Folder Based**.

3. **Add Fields from Product Database**—If you want to supplement the data you are importing from your accounting or ERP system, check this box. Click **Setup** to designate the fields you wish to supplement. See **Supplement Data from the Product Database** below for more information.
4. **Package**—If you want to zip up the DXM files to be run on a different computer, click **Package** and identify the location where you wish to save the zip file. This should be done after the setup is complete and fully tested.
5. **XML File (file-based only)**—Click the ellipses button and navigate to the location of your XML file.
6. **Source Folder (folder-based only)**—Click the ellipses button and navigate to the location of the folder containing your XML files.
7. **Location of Files After Processing**—Click the ellipsis button to display a search window that will allow you to navigate through your computer to identify where you would like your text files to be moved after the DXM runs. When moved the processed files will be renamed with the file format YYYYMMDD\_HHMMSSXX<filename> where XX is either AM or PM.
8. **Copy Processed Files to Folder**—When you are first setting up a DXM project, you may need to run the import of the delimited text files more than once to ensure the mapping and other configurations are correct. To make this process easier, you should leave this box unchecked so the files you are using to test the import stay in the designated folder. Once your testing is complete, and you are ready to move to the production phase, check this box so the processed files automatically get moved to the folder identified in Step 7, listed above. For folder-based projects, the box is always checked.
9. **Logging in Debug Mode**—Check this box if you are testing the import process and you want the DXM to write a more detailed log entry for the file import. The more detailed log entry may make it easier to diagnose any problems you encounter during the setup process.

### Setting Up the DXM Using an ODBC Connection



## Use an ODBC Connection

Shipping Solutions Data Exchange Manager (DXM) includes a 64-bit ODBC connection option, which allows Shipping Solutions to directly communicate with your business application such as your ERP, accounting, or order-entry system. Your application must be ODBC-compliant (Open Database Connectivity).

We recommend that you create two indexed views in your ERP database containing information on your export orders. The first view should contain header information, meaning all the information that applies to an entire shipment including exporter, consignee and shipping information. The second view should contain the information related to each line item in your orders. [The Appendix here](#) shows the fields available to import for both the header and detail file. There are hundreds of fields available to import, but at a minimum, you will want to include the following fields from your ERP system in your header view:

### **Linking Field**

Use a field that identifies this shipment and can be used to build the relationship with the line item detail view. This field should be defined as an integer and can be up to 10 digits long. It must be the same data type as the Linking Field in the line item detail view.

### **Look Up Field**

Include a field that the Shipping Solutions user can use to pull the correct order from the database. This can be a field that is also mapped to a Shipping Solutions field or a field that is only used for the look up process.

### **Exporter Company Name, Address1, Address2, City, State, Zip and Country**

If you are the exporter, this would be your company name and address. States and countries must be two-character codes. For example, if your company is located in Minnesota, you would need to show the state as MN and the country as US. If your company name and address are not available in your ERP system, you can type the Exporter name and address as default values on the Mapping screen when you get to that part of the setup.

### **Ultimate Consignee Company Name, Address1, Address2, City, Postal Code, and Country**

This is the customer that is the ultimate destination for your goods. Just like with the exporter record, the country code must be two characters.

### **Date**

Include a date for this shipment such as Proforma Invoice Date, Commercial Invoice Date or Date of Export. Date fields must be a date or datetime datatype.

At a minimum, you will want to include the following fields from your ERP system in your line item detail view:

### **Linking Field**

Use a field that identifies this shipment and can be used to build the relationship with the header view. This field should be defined as an integer and can be up to 10 digits long. It must be the same data type as the Linking Field in the header view.

### **Product ID**

Some companies do not have Product IDs for their items, so it is not a required field. However, if you have one, it should be included to identify the product as well as to make use of the [Product Supplement, which is described here](#).

### **Product Description**

This is the name of your item. It can be mapped to both the Product Description and Schedule B description, although Schedule B descriptions are generally more generic than Product Descriptions.

### **Quantity for Invoice**

This is the number of a particular item included on this shipment.

### **Sales Unit of Measure**

This is the unit of measure that you use to sell your item such as piece, box, etc.

### **Unit Price**

This is the price per item.



## Extended Price

This is the Quantity multiplied by the Unit Price. If you don't map the Extended Price, then the Shipping Solutions user will have to tab through the quantity and price to get the extended price to calculate. If your shipments have many line items, this is a time-consuming task.

You should consult with your IT department before proceeding with setting up the ODBC connection. In general, the steps to setup the ODBC connection are:

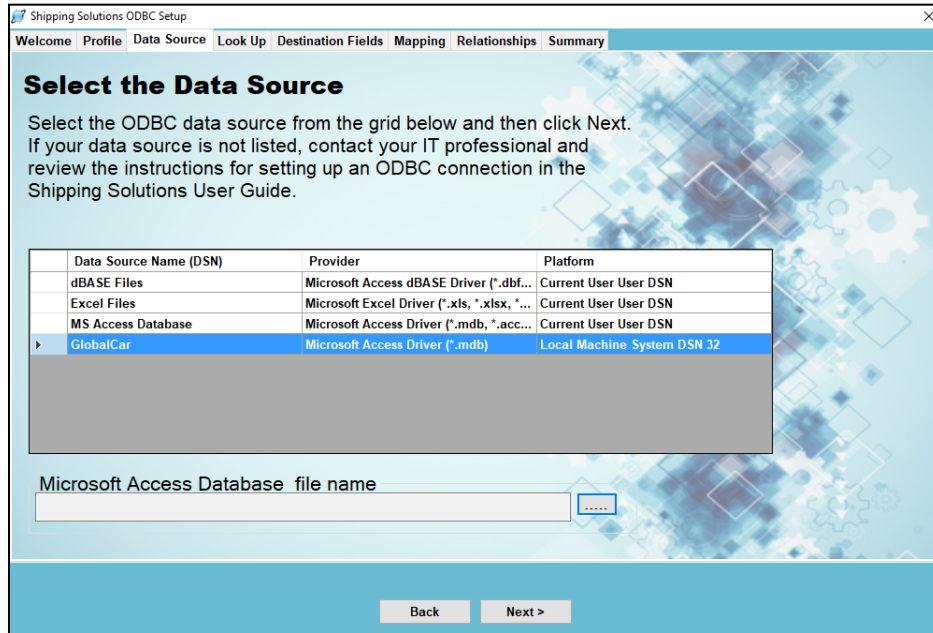
1. On the computer running the Shipping Solutions client, open the **ODBC Data Source Administrator** window.
  - A. On a Windows 8 or 10 machine just click the **Start** button in the lower-left corner of your computer and start typing **ODBC**.
  - B. On older operating systems, open the Control Panel and double-click the option called **Data Sources (ODBC)** or **Setup up Data Sources (ODBC)**.
  - C. If you are given a choice between 32-bit and 64-bit version, choose the 64-bit version.
2. On the **ODBC Data Source Administrator** window click the **System DNS** tab.
3. Click **Add** and choose the correct driver for your data source. You may have to download the correct driver from your ERP system vendor. Click **Finish**.
4. Give your data source a name (a DSN), a description and choose the SQL Server to connect to.
5. Use the ODBC data source wizard to complete the connection.

Once you have created the ODBC connection with your accounting or ERP system, go to the **Admin** tab, **Setup Data Exchange Manager for ODBC** screen. Review the **Welcome** screen and click **Next**. Complete the steps on each of the tabs outlined below to configure the setup with Shipping Solutions Professional.

## Profile Tab

Create a new profile or edit an existing profile. If you choose **Edit an existing profile**, a grid will pop up showing your existing profiles. You can delete existing profiles or select one to edit and click **Next**. If you choose to **Create a new profile**, a box will pop up where you can enter the name of your new profile.

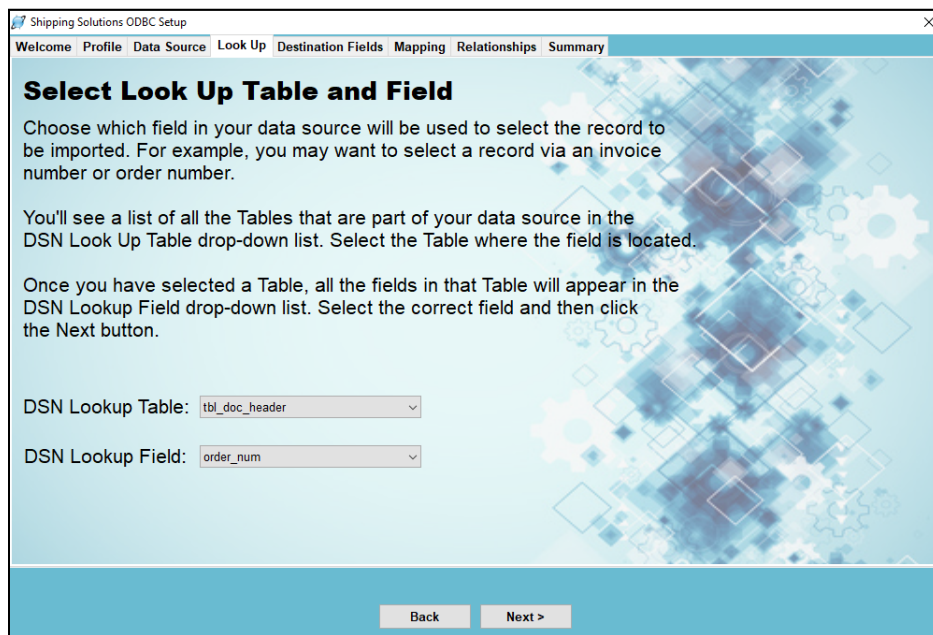
## The Data Source Tab in the Shipping Solutions ODBC Setup Screen



## Data Source Tab

On this tab you identify the source of your shipment information. The databases that you can connect to via ODBC are listed in the box. Select the data source name and click **Next**. If your data source is not listed, contact your IT professional and review the general instructions above for setting up an ODBC connection.

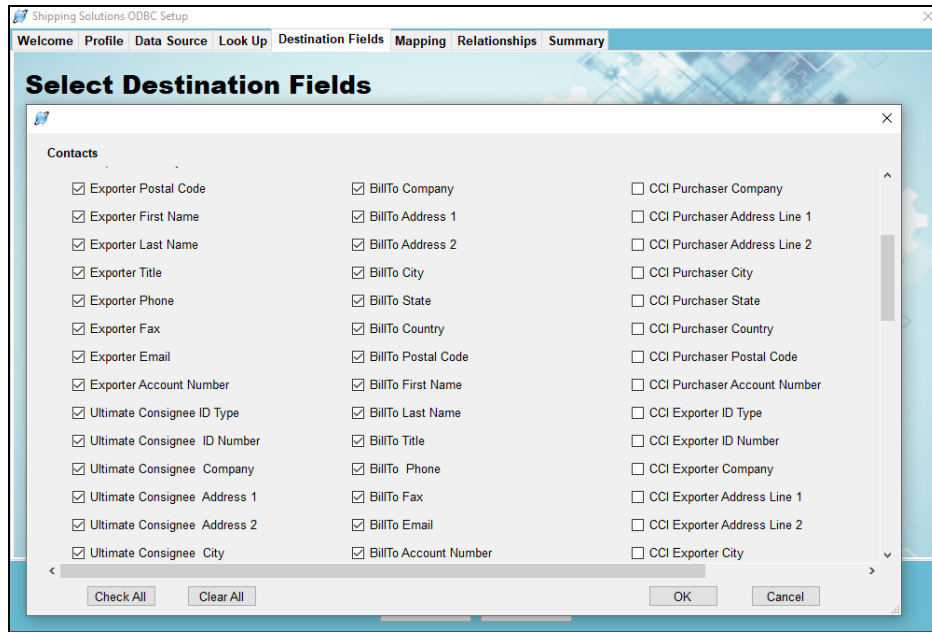
## The Look Up Tab in the Shipping Solutions ODBC Setup Screen



## Look Up Tab

On this screen you identify the field you want to look up in order to import the correct shipment information. For example, you may want to pull in shipment records via an invoice number or order number. All of the tables and views in your data source are listed in the **DSN Look Up Table** drop-down list. Select the table or view where the field is located. Once you have chosen the table, the possible fields will appear in the **DSN Look Up Field** drop-down list. Select the correct field. Click **Next**.

### Selecting Contact Fields in the ODBC Destination Tab



## Destination Fields Tab

Now you need to identify which fields in Shipping Solutions you will be populating with information from your data source. The fields available in Shipping Solutions are divided into six groups. Click each group and check the boxes next to the fields you want to populate with information from your data source. You can also select fields that you want to populate with a default value.

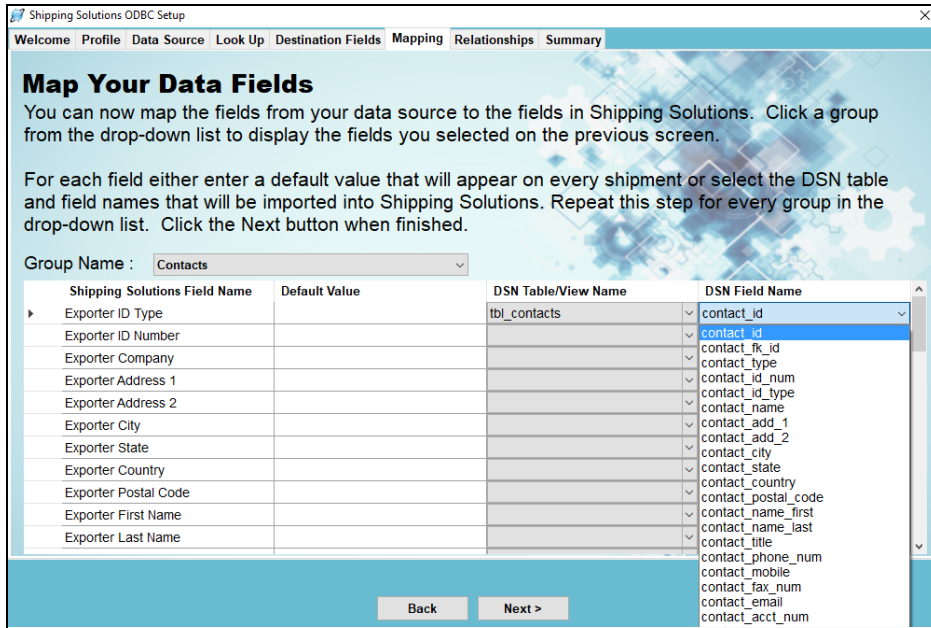
The **Contacts** group includes names and addresses for all the parties in your shipment from your exporter information to the name and address of the ultimate consignee to the NAFTA producer plus many more. The **Header-Invoice** group includes much of the information needed for your commercial or proforma invoice and your AESDirect filing such as the commercial invoice date, commercial invoice number, and the exporting carrier. The **Product Info** group includes all the information about your line items such as product description, unit price and weight. You must choose at least one field in each of these three groups (Contacts, Header-Invoice, and Product Info.)

The last three groups are used less frequently than the first three because your ERP system may not include fields that are specific to exporting. The **NAFTA/Free Trade/Canada Customs/CARICOM** group includes fields that appear on those documents, such as NAFTA blanket dates, the Condition of Sale that appears on the Canada Customs Invoice and the Presenting Bank shown on the CARICOM invoice. The **Ocean BL/IATA/IMO/Inland BL** group includes fields specific to the ocean and air waybill and the dangerous goods documents. Finally, the **Shipper's Letter of Instruction** group includes fields for that document, such as various fees.

There is a **Check All** box on each group's screen. However, please note that you will need to map every field that is checked and each group contains many fields, so there is probably no circumstance where you would want to use the **Check All** box.

When you have finished selecting the fields, click **Next**.

**The Mapping Tab in the Shipping Solutions ODBC Setup Screen**



## Mapping Tab

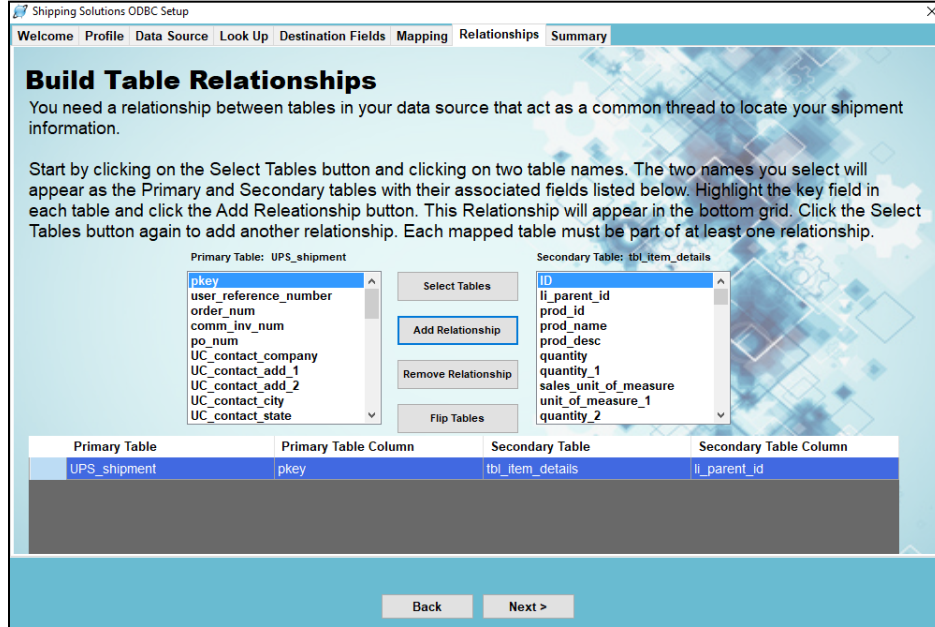
Now you need to identify which field in your data source maps to each field you checked on the Destination Fields tab. The groups you used on the Destination Fields tab will appear in the drop-down list. Select a group. The fields you checked on the Destination Fields tab will appear in the first column.

The second column can be used to enter a default value for this field. For example, you may want to enter a default value for your company name and address. The default value will remain the same for every shipment.

However, most fields will use the third and fourth column only. All the tables and views in your data source will appear in the drop-down list of the **DSN Table/View Name** column. Select the correct table or view for the first field. Field names from the table or view you selected will appear in the **DSN Field Name** column. Select the correct field that corresponds to the **Shipping Solutions Field Name**.

Map each group that appears in the drop-down list. Then click **Next**.

## The Mapping Tab in the Shipping Solutions ODBC Setup Screen



### Relationships Tab

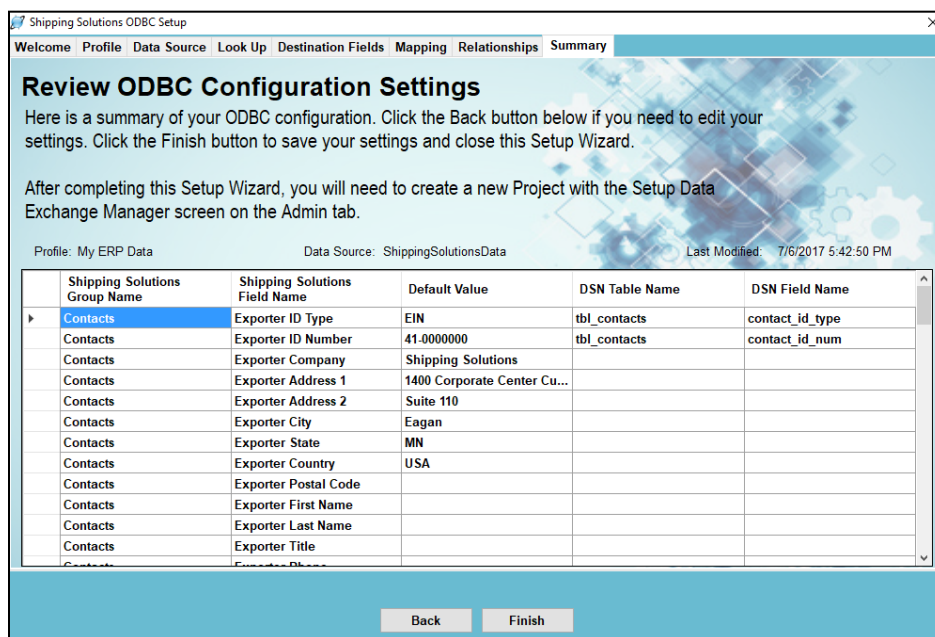
This tab is more complicated than the other tabs and requires a thorough knowledge of your data source, meaning your accounting, order-entry or ERP system.

This screen builds the relationships between the tables. A relationship is built between two matching fields where one field is in each table. For example, the matching field might be the order number, invoice number or another field that is not even part of the shipment data. You will need a relationship between each table in the data source that will act as a common thread to locate the information about a specific shipment throughout the various tables. As discussed earlier, this process is easier if you have created two views with all relevant shipment information.

To add a relationship, click the **Select Tables** button. Each of the tables you used on the **Mapping** tab will appear in the list. If you need to build a relationship with a table that you did not use on the **Mapping** tab, click the **All** button to see all tables in your data source. Select two tables. One table will appear as the **Primary Table** and the other table will appear as the **Secondary Table**.

If you want to switch the two tables you can use the **Flip Tables** button. Flipping the tables may be necessary if you need to build a bridge between two tables that includes a third table not used in the mapping. The fields in each table will appear in the boxes below the table names. Highlight a field in each box and click **Add Relationship**. The relationship will show up in the grid below. Click **Select Tables** again to add another relationship. You can use a table in more than one relationship, but you must have at least one relationship for each table. Continue building relationships until all tables have been used. Then click **Next**.

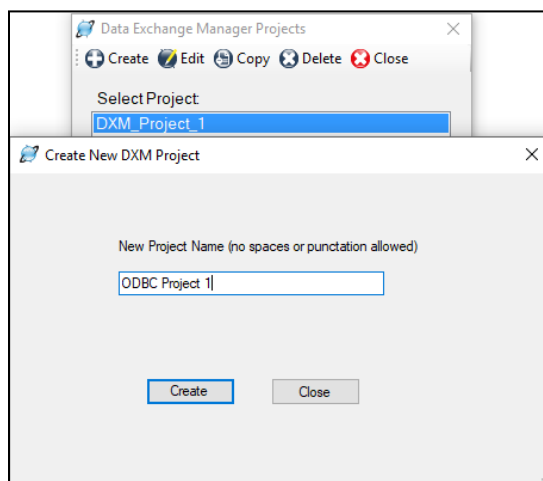
## The Mapping Tab in the Shipping Solutions ODBC Setup Screen



### Summary Tab

This tab shows a summary of your ODBC configuration. Click the **Back** button to edit any settings. Click the **Finish** button to save your settings and close the **Setup Wizard**.

## Creating a New DXM Project Window



### Create Your DXM Project

Once you have setup your ODBC connection and setup the ODBC configuration, you must create a Data Exchange Manager (DXM) project. Go to the **Admin** tab, **Setup Data Exchange Manager** screen. Click **Create** to create a new project, **Edit** to edit an existing project or **Copy** to copy an existing project.

In the **File Type** box choose ODBC. In the **Profile** box type the name of the profile you just setup. You can also use the **Add Fields from Product Database** check box to supplement the data from your accounting or ERP system with data stored in the Shipping Solutions Product Database. Continue to the next section for more information.

While you are testing the DXM project, check the **Logging in Debug Mode** box. This will provide more detailed logging in case of errors. **Save** and **Close** your project.

## Supplement Data from the Shipping Solutions Products Database

Many accounting and ERP systems that companies use are biased towards domestic orders and therefore may not include all the product information that may be required on your export forms. For example, the Schedule B or Harmonized Tariff System (HTS) code may not be stored with the rest of your product information.

If that is the case, Shipping Solutions Professional software users will need to manually add the missing data for each product on every export shipment imported from your accounting system. Alternately, you can automate the process of supplementing the missing data in one of two ways:

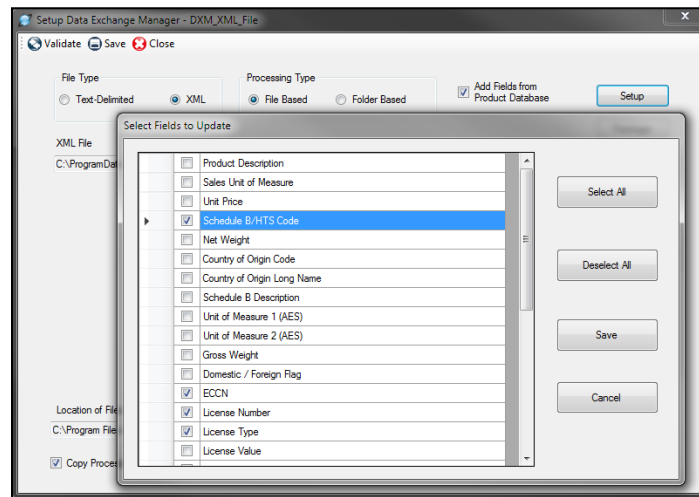
1. You can store the missing data in a table on your server and then reference that table of additional data in the script your company writes to create either the delimited text files or the XML file required for importing your orders into Shipping Solutions Professional using the DXM.
2. You can turn on the feature in the DXM that pulls missing data from the Shipping Solutions Professional's Products Database.

If you choose the second option for adding the missing data, you can import the product data into the Products Database. Refer to the complete Shipping Solutions user guide for instructions on importing data into the Shipping Solutions database.

For this tool to work and add the selected data fields to any orders you import from your accounting system, the DXM utilizes the Product ID field for each line item imported. The products you reference during the import process must include a Product ID, and that Product ID must be unique for each item.

Once you are sure you have data in the Shipping Solutions Professional Products Database, click the **Add Fields from Product Database** check box, and then click on the **Setup** button in the upper-right corner of the **Setup Data Exchange Manager** window. It will open the **Select Fields to Update** window.

### Select Data to Add to an Export Order Imported through the DXM



From this window, check on the box next to the data fields you want to be added from the Products Database to your orders after importing from your accounting system. Once you have selected one or more fields, click on the **Save** button to close the window and return to the main **Setup** window.

If you are selecting Preference Criteria, Producer Code, or Country of Origin (FTA), be sure to also check the matching key field. For example, in addition to choosing “Preference Criteria,” you also need to select “Preference Criteria Key” or this information won’t correctly appear on the EZ Start screen or the appropriate export forms.

## Running the DXM

Once you have the Data Exchange Manager configured to be able to import your order information from your accounting, order-entry or ERP system, you have three choices for running the DXM: (1) from within Shipping Solutions, (2) from a script, and (3) as a Windows Service. For ODBC projects, you only have the option to run the DXM from within Shipping Solutions.

### Run From Shipping Solutions

A user can run the DXM at any time by going to the Shipping Solutions **Tools** tab and clicking on **Run Data Exchange Manager (Import Shipments)**—([see here](#)). From this window, select a **Project** from the drop-down list. Once you select a project, the top window will indicate if there are any files that match the parameters set up in this project and are ready to process or if anything is missing. The bottom box will show you the project parameters. If you have selected a folder-based project, a **Process All Files** check box will appear. Check this box to process all the files without stopping.

For ODBC projects, a **Lookup ID** box will appear. Enter the value for the shipment you want to import. The value is defined on the **Admin** tab’s **Setup Data Exchange Manager for ODBC** screen.

To process, click the **Run** button on the toolbar. The bottom box will then display the file as it is being processed and should end with “Shipment ID’s Inserted [x]” where “x” is the Shipment Number inserted into your Shipping Solutions database. If there are errors, you can click the **View Log** button on the toolbar to see all the processing messages.

### Run Using a Script

Another way to run the DXM is to call the `dxmRun.exe` file from a batch file or a script. This allows you to import orders from your accounting system without any user intervention. For example, you can call the `dxmRun.exe` file every time you generate a single XML file or a header and detail delimited text file in your accounting or ERP system so there is no lag between the time the files are created and they appear in Shipping Solutions Professional as a new shipment record.

To run the DXM, run the **dxmRun.exe** executable file either from a script or at the DOS command prompt. When running the program, you will need to specify certain parameters depending on what kind of project you are running:

- Text File-Based Project: Project name, User Name
- XML File-Based Project: Project name, User Name
- Text Folder-Based Project: Project name, Full path of header file, full path of detail file, User Name
- XML Folder-Based Project: Project name, Full path of XML file, User Name

The **User Name** parameter is used to specify what Shipping Solutions User is assigned to the imported shipments. The user name parameter is optional and the Admin User Name will be used if not specified. The parameter must be specified as `UserName=user`. Use double quotes if the user name contains spaces, for example, “`UserName=user one`”.

For folder-based projects the full path to the file to be processed needs to be passed in as parameters. If the path contains spaces, it must be enclosed in double quotes so it is seen as a single parameter.

As an example, if you do not move any files from their default locations and you are running a project called `Project1`, the DOS command would be as follows:

- File-based project:  
`C:\> C:\Program Files\InterMart\SSProfessional_9\Applications\DXM\dxmrun\dxmRun.exe Project1`



- File-based project with user specified:  
*C:\> C:\Program Files\InterMart\SSProfessional\_9\Applications\DXM\dxmrun\dxmRun.exe Project1  
 UserName=user*
- Folder-based text-file project:  
*C:\> C:\Program Files\InterMart\SSProfessional\_9\Applications\DXM\dxmrun\dxmRun.exe Project2  
 c:/DXMFiles/header.txt c:/DXMFiles/detail.txt*
- Folder-based XML project with user specified:  
*C:\> C:\Program Files\InterMart\SSProfessional\_9\Applications\DXM\dxmrun\dxmRun.exe Project3  
 C:/DXM\_XML\_Files/shipment\_1987.xml UserName=myuser*

This command will read the setup files, locate the data files, and insert the shipment records into your Shipping Solutions Professional database. It will also move the data files to the processed file location and write to the `sspro_dxm_logfile.txt` log file in your project directory.

You may also add a line to a script file where you specify the DXM to run after your input has been created in your accounting or ERP system.

## Run with the DXM Windows Service

Another way to run the DXM is by installing a Windows Service. The service will run continuously on your computer checking a specified folder at specified time intervals for any files that are ready for processing. Only folder-based projects can be run using the Windows Service.

To setup the Windows Service, use Windows Explorer to navigate to the following folder on your computer: **C:\ProgramFiles(x86)\InterMart\SSProfessional\_9\Applications\DXMRunService**. Double click on the **setup.exe** file, which will open the **DXMRunService Setup Wizard**. Click **Next**. On the **Start Parameters window**, enter your **Project Name**. This must exactly match the project name you have setup on the Setup Data Exchange Manager screen located on the Shipping Solutions Admin tab. Now enter the **Time Interval in Minutes** and the **User Name**.

The User Name should match one of the User Accounts created on the Shipping Solutions Admin tab. Shipping Solutions will use all the details associated with the Profile associated with that User Name such as the appropriate logo and signatures to place on the export forms for any incoming shipments. If you are using the single-user version of Shipping Solutions Professional, which does not allow you to set up multiple Users, enter “Admin” in this field or leave it blank. Click **Next** until the installation completes. Click **Close**.

The service is now running and will process any files in the specified folder. It will read the setup files, locate the data files, and insert the shipment records into your Shipping Solutions Professional database. Once the import is finished, the Service will move the data files to the processed file location you already identified and write to the **sspro\_dxm\_logfile.txt** log file in your project directory.

To confirm that the Service is running on your computer, open the **Control Panel** and search for **Services**. It is under **Administrative Tools**. Click **View Local Services** and look for the **DXM Run Service (Shipping Solutions)**.

If you want to change the parameters of the Service, return to the Setup program. Uninstall the Service and then reinstall with the new parameters.

You can review the Service log files in the `C:\ProgramFiles\InterMart\DXMRunService\Logs` folder. Your folder may be called `ProgramFiles(X86)`. The newest log file is `DXMRunService.log`. The older logs are numbered `.1`, `.2`, etc. with `.1` being the next newest file.

## Moving Your DXM Project Files

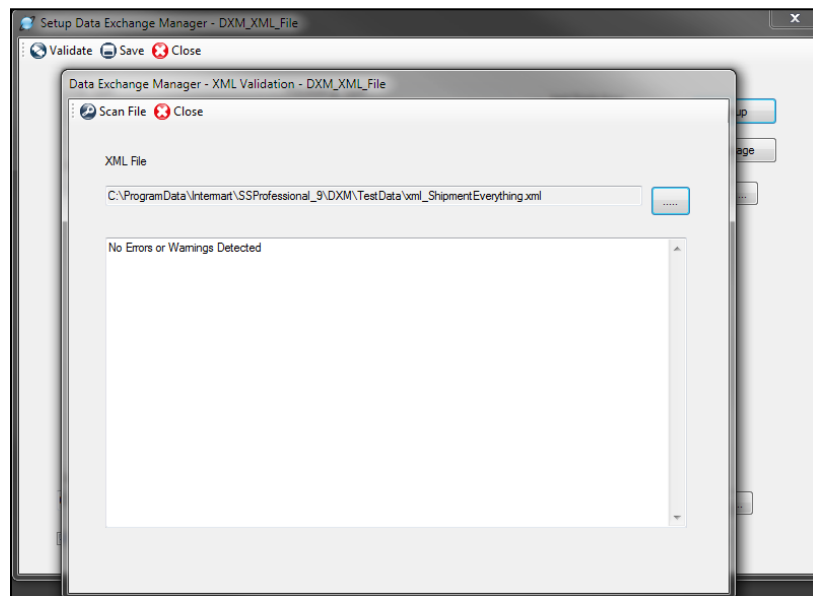
Once you have your DXM project set up on one computer, you can easily move it to your other users' computers by copying the project folder. Go to `C:\ProgramData\InterMart\SSProfessional_9\DXM\Projects`. Copy the `Projects` folder from the working computer to the same location on your other users' computers. If you have an ODBC project, then you also need to copy the `C:\ProgramData\InterMart\SSProfessional_9\DXM\ODBC` folder. You will also need to set up an ODBC connection between the source system and the second computer.

If you want to run the DXM either from a script or as a Service on another machine that doesn't have Shipping Solutions installed, you can package up your DXM project and move it. This will only work for Text or XML projects. On the **Admin** tab, **Setup Data Exchange Manager** screen, choose the **Project** you wish to move and then click the **Edit** button on the toolbar. From the **Setup Data Exchange Manager** window, click on the **Package** button. This will create a zip file of all the necessary DXM files in the location you specify. Copy and paste the zip file to the new location and then extract the files. The text or XML files identified in the project must have an equivalent path on the computer you are moving it to. To modify your project, you do not need to go back to a computer running Shipping Solutions. You can simply open the **dxmmapping.exe** file located in the **C:\ProgramFiles(x86)\InterMart\SSProfessional\_9\Applications\DXM** folder that was included with the zip file.

## DXM Testing Tools

The Data Exchange Manager includes tools that will review and validate whether or not the files you are generating from your accounting or ERP system are setup correctly to work with the DXM. We have included sample pipe-delimited files as well as an XML file that can be used for testing. You'll find those sample files in the **c:\ProgramData\InterMart\SSProfessional\_9\DXM\TestData** folder.

### Validating XML Files

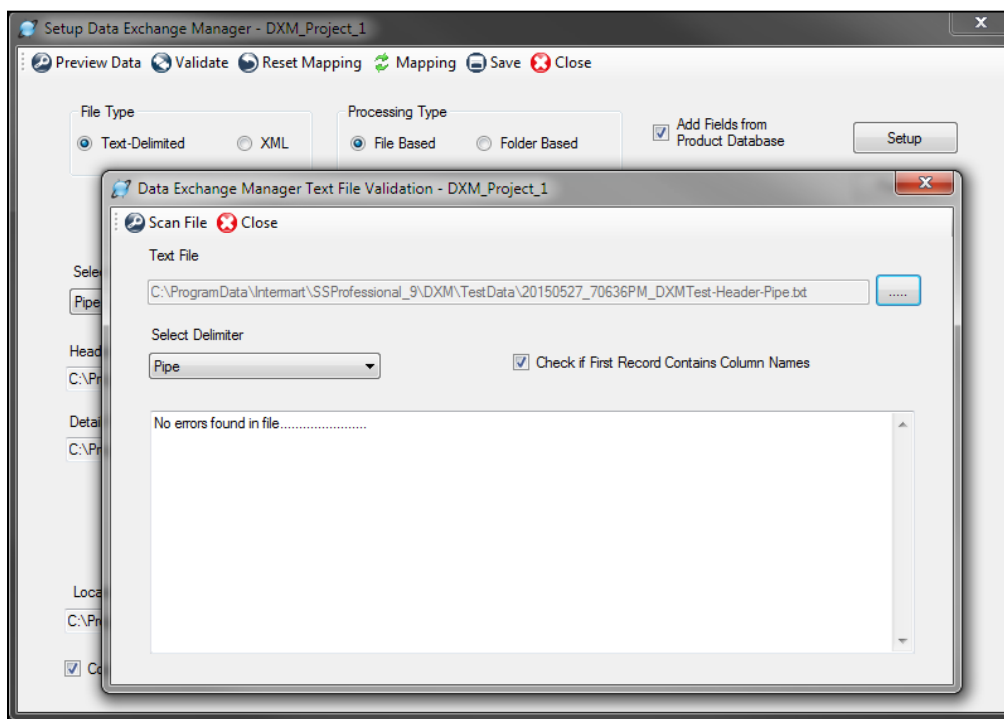


## XML File Validator

To validate your XML file, open the **Setup Data Exchange Manager** screen on the Shipping Solutions **Admin** tab, click on the **Project** you are working on, and click the **Edit** button on the toolbar. Now click on the **Validate** button on the toolbar. Now click the **Scan File** button. The Validator will run your file against the schema and list any errors it encounters in processing the file.

The XML Validator tends to be a bit pickier than the DXM, so it would be good practice to try running the DXM before reviewing the exceptions generated by the XML File Validator. If you have more than one file you wish to validate, you can click on the ellipsis next to the **XML File** field to search for and choose another file.

## Validating Text Files



### Delimited Text File Validator

The Text File Validator will check your comma-, tab- or pipe-delimited text files generated from your accounting or ERP system to determine if there are any illegal characters or extra line feeds that will cause problems during the process of inserting the data in the Shipping Solutions Professional database.

To validate your delimited text files, open the **Setup Data Exchange Manager** screen on the Shipping Solutions **Admin** tab, click on the **Project** you are working on, and click the **Edit** button on the toolbar. Now click on the **Validate** button on the toolbar. Now click the **Scan File** button. The Validator will run your file against the schema and list any errors it encounters in processing the file.

If you have more than one file you wish to validate, you can click on the ellipsis next to the **Text File** field to search for and choose another file.

There is also a Validate button on the Mapping screen. This will scan the text-delimited files after they have been converted to XML.

## Data Exchange Manager File Structure

[Instructions here](#) explain how to set up Shipping Solutions Professional's Data Exchange Manager so you can link Shipping Solutions with your accounting, order entry or ERP system. As part of that process, you must map the data fields from your accounting, ERP or order-entry system to the fields in Shipping Solutions Professional.

Below is a detailed file layout of the Shipping Solutions fields available for mapping. The columns are defined as follows:

1. The **Text File** column defines whether the field is in the header or detail text file.
2. The **Mapping Table** column defines in which mapping table the field is located.

3. The **Shipping Solutions Professional Field** column is the user friendly name of the field.
4. The **System Field Name** column is the system field name. You do not need to use this name if you use the **Setup Data Exchange Manager** screen.
5. The **Size** column shows the length of the field.
6. The **EZ Start Screen** column indicates on which **EZ Start** screen the field appears.
7. The **Format** column shows the specific format of the field if there is one.

<b>Text File</b>	<b>Mapping Table</b>	<b>Shipping Solutions Professional Field</b>	<b>System Field Name</b>	<b>Size</b>	<b>EZ Start Screen</b>	<b>Format</b>
Header	Contacts	Exporter ID Type	contact_id_type	50	Contacts	E for EIN, T for Foreign, D for D-U-N-S
Header	Contacts	Exporter ID Number	contact_id_num	50	Contacts	
Header	Contacts	Exporter Company	contact_name	50	Contacts	
Header	Contacts	Exporter Address 1	contact_add_1	50	Contacts	
Header	Contacts	Exporter Address 2	contact_add_2	50	Contacts	
Header	Contacts	Exporter City	contact_city	50	Contacts	
Header	Contacts	Exporter State	contact_state	3	Contacts	2- or 3-digit state code
Header	Contacts	Exporter Country	contact_country	2	Contacts	2-digit country code
Header	Contacts	Exporter Postal Code	contact_postal_code	50	Contacts	
Header	Contacts	Exporter First Name	contact_name_first	50	Contacts	
Header	Contacts	Exporter Last Name	contact_name_last	50	Contacts	
Header	Contacts	Exporter Title	contact_title	50	Contacts	
Header	Contacts	Exporter Phone	contact_phone_num	50	Contacts	
Header	Contacts	Exporter Fax	contact_fax_num	50	Contacts	
Header	Contacts	Exporter Email	contact_email	50	Contacts	
Header	Contacts	Exporter Account Number	contact_acct_num	50	Contacts	

Header	Contacts	Ultimate Consignee ID Type	contact_id_type	50	Contacts	E for EIN, T for Foreign, D for D-U-N-S
Header	Contacts	Ultimate Consignee ID Number	contact_id_num	50	Contacts	
Header	Contacts	Ultimate Consignee Company	contact_name	50	Contacts	
Header	Contacts	Ultimate Consignee Address 1	contact_add_1	50	Contacts	
Header	Contacts	Ultimate Consignee Address 2	contact_add_2	50	Contacts	
Header	Contacts	Ultimate Consignee City	contact_city	50	Contacts	
Header	Contacts	Ultimate Consignee State	contact_state	3	Contacts	2- or 3-digit state code
Header	Contacts	Ultimate Consignee Country	contact_country	2	Contacts	2-digit country code
Header	Contacts	Ultimate Consignee Postal Code	contact_postal_code	50	Contacts	
Header	Contacts	Ultimate Consignee First Name	contact_name_first	50	Contacts	
Header	Contacts	Ultimate Consignee Last Name	contact_name_last	50	Contacts	
Header	Contacts	Ultimate Consignee Title	contact_title	50	Contacts	
Header	Contacts	Ultimate Consignee Phone	contact_phone_num	50	Contacts	
Header	Contacts	Ultimate Consignee Fax	contact_fax_num	50	Contacts	
Header	Contacts	Ultimate Consignee Email	contact_email	50	Contacts	
Header	Contacts	Ultimate Consignee Account Number	contact_acct_num	50	Contacts	

Header	Contacts	Ultimate Consignee Type (AES)	contact_user2	1	Contacts	D for Direct Consumer; G for Government Entity; O for Other/Unknown; R for Reseller
Header	Contacts	Freight Forwarder ID Type	contact_id_type	50	Contacts	E for EIN, T for Foreign, D for D-U-N-S
Header	Contacts	Freight Forwarder ID Number	contact_id_num	50	Contacts	
Header	Contacts	Freight Forwarder Company	contact_name	50	Contacts	
Header	Contacts	Freight Forwarder Address 1	contact_add_1	50	Contacts	
Header	Contacts	Freight Forwarder Address 2	contact_add_2	50	Contacts	
Header	Contacts	Freight Forwarder City	contact_city	50	Contacts	
Header	Contacts	Freight Forwarder State	contact_state	3	Contacts	2- or 3-digit state code
Header	Contacts	Freight Forwarder Country	contact_country	2	Contacts	2-digit country code
Header	Contacts	Freight Forwarder Postal Code	contact_postal_code	50	Contacts	
Header	Contacts	Freight Forwarder First Name	contact_name_first	50	Contacts	
Header	Contacts	Freight Forwarder Last Name	contact_name_last	50	Contacts	
Header	Contacts	Freight Forwarder Title	contact_title	50	Contacts	

Header	Contacts	Freight Forwarder Phone	contact_phone_num	50	Contacts	
Header	Contacts	Freight Forwarder Fax	contact_fax_num	50	Contacts	
Header	Contacts	Freight Forwarder Email	contact_email	50	Contacts	
Header	Contacts	Freight Forwarder Account Number	contact_acct_num	50	Contacts	
Header	Contacts	Intermediate Consignee ID Type	contact_id_type	50	Contacts	E for EIN, T for Foreign, D for D-U-N-S
Header	Contacts	Intermediate Consignee ID Number	contact_id_num	50	Contacts	
Header	Contacts	Intermediate Consignee Company	contact_name	50	Contacts	
Header	Contacts	Intermediate Consignee Address 1	contact_add_1	50	Contacts	
Header	Contacts	Intermediate Consignee Address 2	contact_add_2	50	Contacts	
Header	Contacts	Intermediate Consignee City	contact_city	50	Contacts	
Header	Contacts	Intermediate Consignee State	contact_state	3	Contacts	2- or 3-digit state code
Header	Contacts	Intermediate Consignee Country	contact_country	2	Contacts	2-digit country code
Header	Contacts	Intermediate Consignee Postal Code	contact_postal_code	50	Contacts	
Header	Contacts	Intermediate Consignee First Name	contact_name_first	50	Contacts	
Header	Contacts	Intermediate Consignee Last Name	contact_name_last	50	Contacts	
Header	Contacts	Intermediate Consignee Title	contact_title	50	Contacts	

Header	Contacts	Intermediate Consignee Phone	contact_phone_num	50	Contacts	
Header	Contacts	Intermediate Consignee Fax	contact_fax_num	50	Contacts	
Header	Contacts	Intermediate Consignee Email	contact_email	50	Contacts	
Header	Contacts	Intermediate Consignee Account Number	contact_acct_num	50	Contacts	
Header	Contacts	BillTo ID Type	contact_id_type	50	Contacts	E for EIN, T for Foreign, D for D-U-N-S
Header	Contacts	BillTo ID Number	contact_id_num	50	Contacts	
Header	Contacts	BillTo Company	contact_name	50	Contacts	
Header	Contacts	BillTo Address 1	contact_add_1	50	Contacts	
Header	Contacts	BillTo Address 2	contact_add_2	50	Contacts	
Header	Contacts	BillTo City	contact_city	50	Contacts	
Header	Contacts	BillTo State	contact_state	3	Contacts	2- or 3-digit state code
Header	Contacts	BillTo Country	contact_country	2	Contacts	2-digit country code
Header	Contacts	BillTo Postal Code	contact_postal_code	50	Contacts	
Header	Contacts	BillTo First Name	contact_name_first	50	Contacts	
Header	Contacts	BillTo Last Name	contact_name_last	50	Contacts	
Header	Contacts	BillTo Title	contact_title	50	Contacts	
Header	Contacts	BillTo Phone	contact_phone_num	50	Contacts	
Header	Contacts	BillTo Fax	contact_fax_num	50	Contacts	
Header	Contacts	BillTo Email	contact_email	50	Contacts	
Header	Contacts	BillTo Account Number	contact_acct_num	50	Contacts	
Header	Contacts	Notify Party ID Type	contact_id_type	50	Contacts	E for EIN, T for Foreign, D for D-U-N-S



Header	Contacts	Notify Party ID Number	contact_id_num	50	Contacts	
Header	Contacts	Notify Party Company	contact_name	50	Contacts	
Header	Contacts	Notify Party Address 1	contact_add_1	50	Contacts	
Header	Contacts	Notify Party Address 2	contact_add_2	50	Contacts	
Header	Contacts	Notify Party City	contact_city	50	Contacts	
Header	Contacts	Notify Party State	contact_state	3	Contacts	2- or 3-digit state code
Header	Contacts	Notify Party Country	contact_country	2	Contacts	2-digit country code
Header	Contacts	Notify Party Postal Code	contact_postal_code	50	Contacts	
Header	Contacts	Notify Party First Name	contact_name_first	50	Contacts	
Header	Contacts	Notify Party Last Name	contact_name_last	50	Contacts	
Header	Contacts	Notify Party Title	contact_title	50	Contacts	
Header	Contacts	Notify Party Phone	contact_phone_num	50	Contacts	
Header	Contacts	Notify Party Fax	contact_fax_num	50	Contacts	
Header	Contacts	Notify Party Email	contact_email	50	Contacts	
Header	Contacts	Notify Party Account Number	contact_acct_num	50	Contacts	
Header	Contacts	FTA Importer ID Type	contact_id_type	50	Contacts	E for EIN, T for Foreign, D for D-U-N-S
Header	Contacts	FTA Importer ID Number	contact_id_num	50	Contacts	
Header	Contacts	FTA Importer Company	contact_name	50	Contacts	
Header	Contacts	FTA Importer Address Line 1	contact_add_1	50	Contacts	
Header	Contacts	FTA Importer Address Line 2	contact_add_2	50	Contacts	
Header	Contacts	FTA Importer City	contact_city	50	Contacts	
Header	Contacts	FTA Importer State	contact_state	3	Contacts	2- or 3-digit

						state code
Header	Contacts	FTA Importer Country	contact_country	2	Contacts	2-digit country code
Header	Contacts	FTA Importer Postal Code	contact_postal_code	50	Contacts	
Header	Contacts	FTA Importer Account Number	contact_acct_num	50	Contacts	
Header	Contacts	FTA Importer Email	Contact_email	50	Contacts	
Header	Contacts	FTA Producer ID Type	contact_id_type	50	Contacts	E for EIN, T for Foreign, D for D-U-N-S
Header	Contacts	FTA Producer ID Number	contact_id_num	50	Contacts	
Header	Contacts	FTA Producer Company	contact_name	50	Contacts	
Header	Contacts	FTA Producer Address Line 1	contact_add_1	50	Contacts	
Header	Contacts	FTA Producer Address Line 2	contact_add_2	50	Contacts	
Header	Contacts	FTA Producer City	contact_city	50	Contacts	
Header	Contacts	FTA Producer State	contact_state	3	Contacts	2- or 3-digit state code
Header	Contacts	FTA Producer Country	contact_country	2	Contacts	2-digit country code
Header	Contacts	FTA Producer Postal Code	contact_postal_code	50	Contacts	
Header	Contacts	FTA Producer Account Number	contact_acct_num	50	Contacts	
Header	Contacts	FTA Producer Email	Contact_email	50	Contacts	
Header	Contacts	FTA Certify Company	contact_name	50	Contacts	
Header	Contacts	FTA Certify Address Line 1	contact_add_1	50	Contacts	
Header	Contacts	FTA Certify Address Line 2	contact_add_2	50	Contacts	
Header	Contacts	FTA Certify City	contact_city	50	Contacts	
Header	Contacts	FTA Certify State	contact_state	3	Contacts	2- or 3-digit

						state code
Header	Contacts	FTA Certify Postal Code	contact_postal_code	2	Contacts	2-digit country code
Header	Contacts	FTA Certify First Name	contact_name_first	50	Contacts	
Header	Contacts	FTA Certify Last Name	contact_name_last	50	Contacts	
Header	Contacts	FTA Certify Title	contact_title	50	Contacts	
Header	Contacts	FTA Certify Phone	contact_phone_number	50	Contacts	
Header	Contacts	FTA Certify Fax	contact_fax_num	50	Contacts	
Header	Contacts	FTA Certify Email	Contact_email	50	Contacts	
Header	Contacts	CCI Purchaser ID Type	contact_id_type	50	Contacts	E for EIN, T for Foreign, D for D-U-N-S
Header	Contacts	CCI Purchaser ID Number	contact_id_num	50	Contacts	
Header	Contacts	CCI Purchaser Company	contact_name	50	Contacts	
Header	Contacts	CCI Purchaser Address Line 1	contact_add_1	50	Contacts	
Header	Contacts	CCI Purchaser Address Line 2	contact_add_2	50	Contacts	
Header	Contacts	CCI Purchaser City	contact_city	50	Contacts	
Header	Contacts	CCI Purchaser State	contact_state	3	Contacts	2- or 3-digit state code
Header	Contacts	CCI Purchaser Country	contact_country	2	Contacts	2-digit country code
Header	Contacts	CCI Purchaser Postal Code	contact_postal_code	50	Contacts	
Header	Contacts	CCI Purchaser Account Number	contact_acct_num	50	Contacts	
Header	Contacts	CCI Exporter ID Type	contact_id_type	50	Contacts	E for EIN, T for Foreign, D for D-U-N-S
Header	Contacts	CCI Exporter ID Number	contact_id_num	50	Contacts	

Header	Contacts	CCI Exporter Company	contact_name	50	Contacts	
Header	Contacts	CCI Exporter Address Line 1	contact_add_1	50	Contacts	
Header	Contacts	CCI Exporter Address Line 2	contact_add_2	50	Contacts	
Header	Contacts	CCI Exporter City	contact_city	50	Contacts	
Header	Contacts	CCI Exporter State	contact_state	3	Contacts	2- or 3-digit state code
Header	Contacts	CCI Exporter Country	contact_country	2	Contacts	2-digit country code
Header	Contacts	CCI Exporter Postal Code	contact_postal_code	50	Contacts	
Header	Contacts	CCI Exporter Account Number	contact_acct_num	50	Contacts	
Header	Contacts	CCI Originator ID Type	contact_id_type	50	Contacts	E for EIN, T for Foreign, D for D-U-N-S
Header	Contacts	CCI Originator ID Number	contact_id_num	50	Contacts	
Header	Contacts	CCI Originator Company	contact_name	50	Contacts	
Header	Contacts	CCI Originator Address Line 1	contact_add_1	50	Contacts	
Header	Contacts	CCI Originator Address Line 2	contact_add_2	50	Contacts	
Header	Contacts	CCI Originator City	contact_city	50	Contacts	
Header	Contacts	CCI Originator State	contact_state	3	Contacts	2- or 3-digit state code
Header	Contacts	CCI Originator Country	contact_country	2	Contacts	2-digit country code
Header	Contacts	CCI Originator Postal Code	contact_postal_code	50	Contacts	
Header	Contacts	CCI Originator Account Number	contact_acct_num	50	Contacts	
Header	Contacts	IBL Consignee Company	contact_name	50	Contacts	
Header	Contacts	IBL Consignee Address 1	contact_add_1	50	Contacts	

Header	Contacts	IBL Consignee Address 2	contact_add_2	50	Contacts	
Header	Contacts	IBL Consignee City	contact_city	50	Contacts	
Header	Contacts	IBL Consignee State	contact_state	2	Contacts	
Header	Contacts	IBL Consignee Postal Code	contact_postal_code	20	Contacts	
Header	Contacts	IBL Consignee First Name	contact_name_first	50	Contacts	
Header	Contacts	IBL Consignee Last Name	contact_name_last	50	Contacts	
Header	Contacts	IBL Bill To Company	contact_name	50	Contacts	
Header	Contacts	IBL Bill To Address 1	contact_add_1	50	Contacts	
Header	Contacts	IBL Bill To Address 2	contact_add_2	50	Contacts	
Header	Contacts	IBL Bill To City	contact_city	50	Contacts	
Header	Contacts	IBL Bill To State	contact_state	2	Contacts	
Header	Contacts	IBL Bill To Postal Code	contact_postal_code	50	Contacts	
Header	Contacts	IBL Bill To First Name	contact_name_first	50	Contacts	
Header	Contacts	IBL Bill To Last Name	contact_name_last	50	Contacts	
Header	Contacts	OBL Also Notify Company	contact_name	50	Contacts	
Header	Contacts	OBL Also Notify Address 1	contact_add_1	50	Contacts	
Header	Contacts	OBL Also Notify Address 2	contact_add_2	50	Contacts	
Header	Contacts	OBL Also Notify City	contact_city	50	Contacts	
Header	Contacts	OBL Also Notify State	contact_state	2	Contacts	
Header	Contacts	OBL Also Notify Country	contact_country	2	Contacts	
Header	Contacts	OBL Also Notify Postal Code	contact_postal_code	20	Contacts	
Header	Contacts	OBL Also Notify First Name	contact_name_first	50	Contacts	
Header	Contacts	OBL Also Notify Last Name	contact_name_last	50	Contacts	
Header	Contacts	Forwarding Agent ID Type	contact_id_type	50	Contacts	E for EIN, T for Foreign, D for D-U-N-S

Header	Contacts	Forwarding Agent ID Number	contact_id_num	50	Contacts	
Header	Contacts	Forwarding Agent Company	contact_name	50	Contacts	
Header	Contacts	Forwarding Agent Address 1	contact_add_1	50	Contacts	
Header	Contacts	Forwarding Agent Address 2	contact_add_2	50	Contacts	
Header	Contacts	Forwarding Agent City	contact_city	50	Contacts	
Header	Contacts	Forwarding Agent State	contact_state	3	Contacts	2- or 3-digit state code
Header	Contacts	Forwarding Agent Country	contact_country	2	Contacts	2-digit country code
Header	Contacts	Forwarding Agent Postal Code	contact_postal_code	50	Contacts	
Header	Contacts	Forwarding Agent First Name	contact_name_first	50	Contacts	
Header	Contacts	Forwarding Agent Last Name	contact_name_last	50	Contacts	
Header	Contacts	Forwarding Agent Title	contact_title	50	Contacts	
Header	Contacts	Forwarding Agent Phone	contact_phone_num	50	Contacts	
Header	Contacts	Forwarding Agent Fax	contact_fax_num	50	Contacts	
Header	Contacts	Forwarding Agent Email	contact_email	50	Contacts	
Header	Contacts	Forwarding Agent Account Number	contact_acct_num	50	Contacts	
Header	Contacts	Freight Location Company ID Type	contact_id_type	50	Contacts	E for EIN, T for Foreign, D for D-U-N-S
Header	Contacts	Freight Location Company ID Number	contact_id_num	50	Contacts	

Header	Contacts	Freight Location Company Name	contact_name	50	Contacts	
Header	Contacts	Freight Location Company Address 1	contact_add_1	50	Contacts	
Header	Contacts	Freight Location Company Address 2	contact_add_2	50	Contacts	
Header	Contacts	Freight Location Company City	contact_city	50	Contacts	
Header	Contacts	Freight Location Company State	contact_state	3	Contacts	2- or 3-digit state code
Header	Contacts	Freight Location Company Country	contact_country	2	Contacts	2-digit country code
Header	Contacts	Freight Location Company Postal Code	contact_postal_code	50	Contacts	
Header	Contacts	Freight Location Company First Name	contact_name_first	50	Contacts	
Header	Contacts	Freight Location Company Last Name	contact_name_last	50	Contacts	
Header	Contacts	Freight Location Company Title	contact_title	50	Contacts	
Header	Contacts	Freight Location Company Phone	contact_phone_number	50	Contacts	
Header	Contacts	Freight Location Company Fax	contact_fax_num	50	Contacts	
Header	Contacts	Freight Location Company Email	contact_email	50	Contacts	
Header	Contacts	Freight Location Company	contact_acct_num	50	Contacts	

		Account Number				
Header	Header-Invoice	Proforma Invoice Date	proforma_inv_date	n/a	Invoices	MM/DD/YYYY
Header	Header-Invoice	Proforma Invoice Number	proforma_inv_num	50	Invoices	
Header	Header-Invoice	Commercial Invoice Date	comm_inv_date	n/a	Invoices	MM/DD/YYYY
Header	Header-Invoice	Commercial Invoice Number	comm_inv_num	50	Invoices	
Header	Header-Invoice	Order Number	order_num	50	Invoices	
Header	Header-Invoice	PO Number	po_num	100	Invoices	
Header	Header-Invoice	Terms	terms	50	Invoices	Any entry in the Terms Database
Header	Header-Invoice	Incoterm	incoterm	3	Invoices	3-character Incoterm
Header	Header-Invoice	Incoterm Location	inco_location	50	Invoices	
Header	Header-Invoice	Incoterm Year	incoterm_year	50	Invoices	Exact phrase from EZ Start Invoices screen
Header	Header-Invoice	Inland Freight Fees	inland_freight_fees	n/a	Invoices	decimal
Header	Header-Invoice	Handling Fees	handling_fees	n/a	Invoices	decimal
Header	Header-Invoice	Consular Fees	consular_fees	n/a	Invoices	decimal
Header	Header-Invoice	Ocean / Air Fees	ocean_air_fees	n/a	Invoices	decimal
Header	Header-Invoice	Insurance Fees	insurance_fees	n/a	Invoices	decimal
Header	Header-Invoice	Other Fees	other_fees	n/a	Invoices	decimal
Header	Header-Invoice	Country of Ultimate Destination	country_of_ultimate_destination	50	Invoices and EEI Information	
Header	Header-Invoice	Point or State of Origin	state_of_origin	50	Invoices	
Header	Header-Invoice	Exporting Carrier	exporting_carrier	50	Carriers & Ports	



Header	Header-Inv oice	Exporting Carrier Code	exporting_carrier_ code	10	Carriers & Ports	
Header	Header-Inv oice	Vessel Name	vessel_name	50	Carriers & Ports	
Header	Header-Inv oice	Inland Carrier	inland_carrier	50	Carriers & Ports	
Header	Header-Inv oice	Inland Carrier Code	inland_carrier_code	10	Carriers & Ports	
Header	Header-Inv oice	Port of Export	port_of_export	50	Carriers & Ports	
Header	Header-Inv oice	Port of Export Code	port_of_export_cod e	10	Carriers & Ports	
Header	Header-Inv oice	Loading Pier / Terminal	load_pier_terminal	50	Carriers & Ports	
Header	Header-Inv oice	Port of Unloading	port_of_unloading	50	Carriers & Ports	
Header	Header-Inv oice	Port of Unloading Code	port_of_unloading_ code	10	Carriers & Ports	
Header	Header-Inv oice	Shipment Reference Number	shipment_ref_num	30	EEl Information	
Header	Header-Inv oice	Date of Export	date_of_export	n/a	EEl Information	MM/DD/ YYYY
Header	Header-Inv oice	Foreign Trade Zone	inbond_code	50	EEl Information	
Header	Header-Inv oice	Inbond Type	Inbond_type	2	EEl Information	See chart at end of this table.
Header	Header-Inv oice	Import Entry Number	entry_number	50	EEl Information	
Header	Header-Inv oice	Filing Option	filing_option	1	EEl Information	2 or 4
Header	Header-Inv oice	State of Origin	point_of_origin	2	EEl Information	2 digit state code
Header	Header-Inv oice	EEl Email Response	aes_email_respons e	100	EEl Information	
Header	Header-Inv oice	ECCN (SLI in SED Format)	eccn_consolidated	200	EEl Information	
Header	Header-Inv oice	SED Export License Type	sed_paper_lic_type	50	EEl Information	
Header	Header-Inv oice	Related Parties Flag	related_parties_flag	n/a	EEl Information	0 for No, 1 for Yes
Header	Header-Inv oice	Containerized Shipment Flag	containerized_flag	n/a	EEl Information	0 for No, 1 for Yes
Header	Header-Inv oice	Hazardous Shipment Flag	hazard_shipment_ flag	n/a	EEl Information	0 for No, 1 for Yes
Header	Header-Inv oice	Routed Export Flag	routed_export_flag	n/a	EEl Information	0 for No, 1 for Yes

Header	Header-Invoice	Proforma Invoice Phrase	proforma_inv_phrase	2000	Invoices-Proforma/Commercial	
Header	Header-Invoice	Proforma Invoice Special Instructions	proforma_inv_instruct	2000	Invoices-Proforma/Commercial	
Header	Header-Invoice	Commercial Invoice Phrase	comm_inv_phrase	2000	Invoices-Proforma/Commercial	
Header	Header-Invoice	Commercial Invoice Special Instructions	comm_inv_instruct	2000	Invoices-Proforma/Commercial	
Header	Header-Invoice	Currency Exchange Rate	doc_currency_rate	50	Invoices-Proforma/Commercial	
Header	Header-Invoice	Invoice Currency	doc_currency	3	Invoices-Proforma/Commercial	Must use valid 3-character code.
Header	Header-Invoice	Mode of Transport	Mode_of_transport	50	Carriers & Ports	See chart at end of this table.
Header	Header-Invoice	Mode of Transport Code	mode_of_transport_code	2	Carriers & Ports	See chart at end of this table.
Header	Header-Invoice	Mode of Transport Type	mode_of_transport_type	1	Carriers & Ports	See chart at end of this table.
Header	Header-Invoice	Shipment Number	user_reference_number	50	All	
Header	Header-Invoice	Search Tag	tags	50	Shipment Summary	
Detail	Product Info	Product ID	prod_id	50	Prod Detail: Invoices Tab	
Detail	Product Info	Product Description	prod_desc	No limit	Prod Detail: Invoices Tab	
Detail	Product Info	Quantity for Invoice	quantity	n/a	Prod Detail: Invoices Tab	decimal
Detail	Product Info	Quantity for Packing List	packing_qty	n/a	n/a	decimal
Detail	Product Info	Sales Unit of Measure	sales_unit_of_measure	25	Prod Detail: Invoices Tab	
Detail	Product Info	Unit Price	unit_price	n/a	Prod Detail: Invoices Tab	decimal
Detail	Product Info	Extended Price	ext_price	n/a	Prod Detail: Invoices Tab	decimal
Detail	Product Info	Schedule B/HTS Code	hts_code	12	Prod Detail: Invoices Tab	Up to 10 digit code
Detail	Product Info	Net Weight	NetWeight	n/a	Prod Detail: Invoices Tab	decimal

Detail	Product Info	Country of Origin Code	country_of_origin	2	Prod Detail: Invoices Tab	2-digit country code
Detail	Product Info	Country of Origin Long Name	country_of_origin_fullname	50	Prod Detail: Invoices Tab	Must be mapped along with code.
Detail	Product Info	Schedule B Description	schbDesc	No limit	Prod Detail: Invoices Tab	
Detail	Product Info	Quantity 1 (AES)	quantity_1	n/a	Prod Detail: Invoices Tab	decimal
Detail	Product Info	Unit of Measure 1 (AES)	unit_of_measure_1	50	Prod Detail: Invoices Tab	Valid AES code
Detail	Product Info	Quantity 2 (AES)	quantity_2	n/a	Prod Detail: Invoices Tab	decimal
Detail	Product Info	Unit of Measure 2 (AES)	unit_of_measure_2	50	Prod Detail: Invoices Tab	Valid AES code
Detail	Product Info	Gross Weight	sed_gross_weight	n/a	Prod Detail: Invoices Tab	decimal
Detail	Product Info	Domestic / Foreign Flag	domestic_foreign_flag	1	Prod Detail: Invoices Tab	D for Domestic , F for Foreign
Detail	Product Info	FAS Value (AES)	sedFASVal	n/a	Prod Detail: Invoices Tab	decimal
Detail	Product Info	AES Export Code	aes_export_code	10	Prod Detail: Invoices Tab	Valid AES code
Detail	Product Info	ECCN	ECCN	50	Prod Detail: Invoices Tab	
Detail	Product Info	License Number	license_num	50	Prod Detail: Invoices Tab	
Detail	Product Info	License Value	license_value	9	Prod Detail: Invoices Tab	integer
Detail	Product Info	License Type	license_type	50	Prod Detail: Invoices Tab	Valid AES code
Detail	Product Info	Preference Criteria	preference_criteria	3	Prod Detail: Invoices Tab	A, B, C, D1, D2, E, FA, FB, 1, 2 or 3
Detail	Product Info	Net Cost (FTA)	net_cost	15	Prod Detail: Invoices Tab	
Detail	Product Info	Producer Code (FTA)	nafta_producer	5	Prod Detail: Invoices Tab	Yes, No1, No2 or No3
Detail	Product Info	Country of Origin (FTA)	nafta_c_of_o	3	Prod Detail: Invoices Tab	US, MX, CA, JNT, AU, CL,

						CO, KR, PA or PE
Detail	Product Info	BL Number of Packages	bl_num_of_pkgs	n/a	Prod Detail: Invoices Tab	decimal
Detail	Product Info	BL Type of Packages	PackageType	50	Prod Detail: Invoices Tab	
Detail	Product Info	BL Package Measurements	dimensions	22	Prod Detail: Invoices Tab	
Detail	Product Info	BL Marks and Numbers	bl_marks_numbers	50	Prod Detail: Invoices Tab	
Detail	Product Info	BL Hazardous Material Flag	inlandbl_hazardous_flag	n/a	Prod Detail: Invoices Tab	0 for No, 1 for Yes
Detail	Product Info	Inland BL Rate	inlandbl_rate	50	Prod Detail: Invoices Tab	decimal
Detail	Product Info	DDTC Exemption Number Code	odtc_exempt_num	25	Product Detail: Vehicle Tab	Valid AES code
Detail	Product Info	DDTC Registration Number	odtc_registr_num	50	Product Detail: Vehicle Tab	
Detail	Product Info	DDTC Quantity	odtc_quantity	10	Product Detail: Vehicle Tab	
Detail	Product Info	DDTC Equipment Indicator Flag	odtc_eqp_indicator	n/a	Product Detail: Vehicle Tab	0 for No, 1 for Yes
Detail	Product Info	DDTC Certification Indicator Flag	odtc_certi_indicator	n/a	Product Detail: Vehicle Tab	0 for No, 1 for Yes
Detail	Product Info	DDTC Category Code	odtc_catg_code	10	Product Detail: Vehicle Tab	Valid AES code
Detail	Product Info	DDTC Unit of Measure Code	odtc_uofm	10	Product Detail: Vehicle Tab	Valid AES code
Detail	Product Info	Vehicle Flag	vehicle_flag	n/a	Product Detail: Vehicle Tab	0 for No, 1 for Yes
Detail	Product Info	Vehicle ID Type Code	vehicle_id_type	1	Product Detail: Vehicle Tab	V for Vin, P for Product ID
Detail	Product Info	Vehicle ID Number	vehicle_id	50	Product Detail: Vehicle Tab	
Detail	Product Info	Vehicle Title	vehicle_title	50	Product Detail: Vehicle Tab	
Detail	Product Info	Vehicle Title State Code	vehicle_title_state	2	Product Detail: Vehicle Tab	2 digit state code

Detail	Product Info	Include on AES	include_on_sed	n/a	Product Details: Invoice Tab	0 for No 1 for Yes
Detail	Product Info	Include on Certificate of Origin	include_on_coforigin	n/a	Product Details: Invoice Tab	0 for No 1 for Yes
Detail	Product Info	Include on USMCA/FTA Certificates	include_on_nafta	n/a	Product Details: Invoice Tab	0 for No 1 for Yes
Detail	Product Info	Include on Invoices	include_on_invoices	n/a	Product Details: Invoice Tab	0 for No 1 for Yes
Detail	Product Info	Include on SLI/ Bills of Lading	include_on_sli_bl	n/a	Product Details: Invoice Tab	0 for No 1 for Yes
Detail	Product Info	Include on Packing List	include_on_packing_list	n/a	Product Details: Invoice Tab	0 for No 1 for Yes
Detail	Product Info	IATA UN Number	iata_un_number	4	Product Details: DG Tab	
Detail	Product Info	IATA Proper Shipping Name	iata_psn	250	Product Details: DG Tab	
Detail	Product Info	IATA Classification	iata_classification	50	Product Details: DG Tab	
Detail	Product Info	IATA Packing Group	iata_packing_group	50	Product Details: DG Tab	
Detail	Product Info	IATA Quantity	iata_quantity	n/a	Product Details: DG Tab	integer
Detail	Product Info	IATA Type of Packing	iata_qty_type_pkg	250	Product Details: DG Tab	
Detail	Product Info	IATA Technical Name	iata_technical	250	Product Details: DG Tab	
Detail	Product Info	IATA Qualifying Prefix	iata_qualifying_prefix	250	Product Details: DG Tab	
Detail	Product Info	IATA Qualifying Suffix	iata_qualifying_suffix	250	Product Details: DG Tab	
Detail	Product Info	IATA Packing Instructions	iata_pkg_instr	50	Product Details: DG Tab	
Detail	Product Info	IATA Authorization	iata_authorization	50	Product Details: DG Tab	

Detail	Product Info	IMO UN Number	imo_un_number	4	Product Details: DG Tab	
Detail	Product Info	IMO Proper Shipping Name	imo_psn	250	Product Details: DG Tab	
Detail	Product Info	IMO Classification	imo_classification	50	Product Details: DG Tab	
Detail	Product Info	IMO Packing Group	imo_packing_group	50	Product Details: DG Tab	
Detail	Product Info	IMO Quantity	imo_quantity	n/a	Product Details: DG Tab	integer
Detail	Product Info	IMO Kind of Packages	imo_qty_type_pkg	250	Product Details: DG Tab	
Detail	Product Info	IMO Technical Name	imo_technical	250	Product Details: DG Tab	
Detail	Product Info	IMO Additional Description	imo_additional_desc	4000	Product Details: DG Tab	
Detail	Product Info	IMO Gross Weight/Volume	imo_gross_wt_vol	n/a	Product Details: DG Tab	decimal
Detail	Product Info	IMO Net Weight/Volume	imo_net_wt_vol	n/a	Product Details: DG Tab	decimal
Detail	Product Info	IMO Cubic Meters	imo_cubic_m	n/a	Product Details: DG Tab	decimal
Detail	Product Info	IMO Include on IMO	imo_dg_include	n/a	Product Details: DG Tab	0 for No 1 for Yes
Detail	Product Info	IATA Include on IATA	iata_dg_include	n/a	Product Details: DG Tab	0 for No 1 for Yes
Header	Free Trade	FTA Date	nafta_date	n/a	Free Trade Agreement	MM/DD/YYYY
Header	Free Trade	Blanket From Date	nafta_blanket_from_date	n/a	Free Trade Agreement	MM/DD/YYYY
Header	Free Trade	Blanket End Date	nafta_blanket_to_date	n/a	Free Trade Agreement	MM/DD/YYYY
Header	Free Trade	CCI Other Reference	cci_otherreferences	50	Canada Customs Invoice	
Header	Free Trade	CCI Country of Transshipment	cci_countryoftrans	50	Canada Customs Invoice	

Header	Free Trade	CCI Country of Origin	cci_origin	30	Canada Customs Invoice	
Header	Free Trade	CCI Additional Transportation	cci_misc_info	150	Canada Customs Invoice	
Header	Free Trade	CCI Condition of Sale	cci_conditionofsale	150	Canada Customs Invoice	
Header	Free Trade	CCI Currency	cci_currencyof settlement	50	Canada Customs Invoice	
Header	Free Trade	CCI Box 18 Flag	cci_18	n/a	Canada Customs Invoice	0 for No, 1 for Yes
Header	Free Trade	CCI Agency Ruling	cci_departmental ruling	50	Canada Customs Invoice	
Header	Free Trade	CCI Box 22 Flag	cci_22	n/a	Canada Customs Invoice	0 for No, 1 for Yes
Header	Free Trade	CCI Box 23i Charges	cci_23i	n/a	Canada Customs Invoice	decimal
Header	Free Trade	CCI Box 23ii Charges	cci_23ii	n/a	Canada Customs Invoice	decimal
Header	Free Trade	CCI Box 23iii Charges	cci_23iii	n/a	Canada Customs Invoice	decimal
Header	Free Trade	CCI Box 24i Charges	cci_24i	n/a	Canada Customs Invoice	decimal
Header	Free Trade	CCI Box 24ii Charges	cci_24ii	n/a	Canada Customs Invoice	decimal
Header	Free Trade	CCI Box 24iii Charges	cci_24iii	n/a	Canada Customs Invoice	decimal
Header	Free Trade	CCI Box 25i Flag	cci_25i	n/a	Canada Customs Invoice	0 for No, 1 for Yes
Header	Free Trade	CCI Box 25ii Flag	cci_25ii	n/a	Canada Customs Invoice	0 for No, 1 for Yes
Header	Free Trade	Caricom Certificate Number	caricom_certificate_num	50	Caricom Invoice	
Header	Free Trade	Caricom Other References	caricom_oth_refs	50	Caricom Invoice	

Header	Free Trade	Caricom Buyer	caricom_buyer	50	Caricom Invoice	
Header	Free Trade	Caricom Presenting Bank	caricom_bank	35	Caricom Invoice	
Header	Free Trade	Caricom Country of Origin	caricom_origin	35	Caricom Invoice	
Header	Free Trade	Caricom Terms and Conditions	caricom_terms	50	Caricom Invoice	
Header	Free Trade	Caricom Currency	caricom_currency	50	Caricom Invoice	
Header	Free Trade	Caricom Gross Weight	caricom_gross_weight	35	Caricom Invoice	
Header	Free Trade	Caricom Cubic Meters	caricom_cubic_meters	10	Caricom Invoice	
Header	Free Trade	Caricom Marks and Numbers	caricom_marks_number	50	Caricom Invoice	
Header	Free Trade	Caricom Description of Goods	caricom_goods_desc	50	Caricom Invoice	
Header	Free Trade	USMCA Certify By	usmca_certify_by		Free Trade Agreements	Producer, Importer, Exporter
Header	Free Trade	Israeli Declaration By	reserved_2		Free Trade Agreements	0 for Producer 1 for Exporter
Header	OceanBL	IBL Number	ibl_number	50	Inland B/L	
Header	OceanBL	IBL Date	ibl_date	n/a	Inland B/L	MM/DD/YYYY
Header	OceanBL	IBL Carrier Number	ibl_carrier_number	50	Inland B/L	
Header	OceanBL	IBL Vehicle Number	ibl_vehicle_number	50	Inland B/L	
Header	OceanBL	IBL Carrier	ibl_carrier	50	Inland B/L	
Header	OceanBL	IBL Shipper	ibl_shipper	50	Inland B/L	
Header	OceanBL	IBL COD Amount	ibl_cod_amt	n/a	Inland B/L	decimal
Header	OceanBL	IBL Remit COD To	ibl_remit_cod_to	50	Inland B/L	
Header	OceanBL	IBL COD Paid By	ibl_cod_paid_by	50	Inland B/L	Shipper or Consignee
Header	OceanBL	IBL Quantity Received	ibl_recvd_qty	50	Inland B/L	
Header	OceanBL	IBL Unit	ibl_recvd_unit	50	Inland B/L	Options in



						drop-down list
Header	OceanBL	IBL Container Received	ibl_recvd_container	50	Inland B/L	
Header	OceanBL	IBL Container Unit	ibl_recvd_container_unit	50	Inland B/L	Options in drop-down list
Header	OceanBL	IBL Freight Charges Method	ibl_freight_chgs_pay_method	50	Inland B/L	Prepaid, Collect or Third Party
Header	OceanBL	IBL Value per LB	ibl_agreed_value	n/a	Inland B/L	decimal
Header	OceanBL	OBL Pre-Carriage By	obl_pre_carriage_by	30	Ocean B/L	
Header	OceanBL	OBL Pre-Carriage Place of Receipt	obl_plc_of_recpt_pre_carrier	30	Ocean B/L	
Header	OceanBL	OBL Place of Receipt on Carrier	obl_plc_of_recpt_on_carrier	30	Ocean B/L	
Header	OceanBL	OBL Booking Number	obl_booking_num	30	Ocean B/L	
Header	OceanBL	OBL Number	obl_num	30	Ocean B/L	
Header	OceanBL	OBL Export References	obl_export_refs	No limit	Ocean B/L	
Header	OceanBL	OBL Domestic Routing-Export Instructions	obl_domestic_routing	No limit	Ocean B/L	
Header	OceanBL	OBL Type of Move	obl_type_of_move	50	Ocean B/L	
Header	OceanBL	OBL Number of Original Bills	obl_doc_count	10	Ocean B/L	
Header	OceanBL	OBL Page Count	obl_page_count	5	Ocean B/L	
Header	OceanBL	OBL Signature Agent	obl_signature_party	50	Ocean B/L	
Header	OceanBL	OBL Signature Place	obl_signature_place	50	Ocean B/L	
Header	OceanBL	OBL Signature Date	obl_signature_date	n/a	Ocean B/L	MM/DD/YYYY
Header	OceanBL	AWB Shipper Account No.	awb_shipper_account	50	Air Waybill	
Header	OceanBL	AWB Agent Name	awb_agent_name	50	Air Waybill	
Header	OceanBL	AWB Agent City	awb_agent_city	50	Air Waybill	
Header	OceanBL	AWB Agent Code	awb_agent_code	50	Air Waybill	

Header	OceanBL	AWB Agent Account	awb_agent_account_no	50	Air Waybill	
Header	OceanBL	AWB Number	awb_num	30	Air Waybill	
Header	OceanBL	AWB Issuing Carrier No.	awb_carrier_num	50	Air Waybill	
Header	OceanBL	AWB Issuing Carrier Name	awb_carrier_name	50	Air Waybill	
Header	OceanBL	AWB Issuing Carrier Address	awb_carrier_addresses	50	Air Waybill	
Header	OceanBL	AWB Issuing Carrier City	awb_carrier_city	25	Air Waybill	
Header	OceanBL	AWB Issuing Carrier Country	awb_carrier_country	25	Air Waybill	
Header	OceanBL	AWB Issuing Carrier Postal Code	awb_carrier_postalcode	25	Air Waybill	
Header	OceanBL	AWB Accounting Info	awb_accounting_info	No limit	Air Waybill	
Header	OceanBL	AWB Departure Airport	awb_departure_airport	50	Air Waybill	
Header	OceanBL	AWB Destination Airport	awb_destination_airport	50	Air Waybill	
Header	OceanBL	AWB Flight Date 1	awb_flight_date_1	15	Air Waybill	
Header	OceanBL	AWB Flight Date 2	awb_flight_date_2	15	Air Waybill	
Header	OceanBL	AWB Declared Value Carriage	awb_declared_val_carriage	20	Air Waybill	
Header	OceanBL	AWB Declared Value Customs	awb_declared_val_customs	20	Air Waybill	
Header	OceanBL	AWB Insurance Amount	awb_insurance_amount	20	Air Waybill	
Header	OceanBL	AWB SCI	awb_sci	50	Air Waybill	
Header	OceanBL	AWB Handling	awb_handling	No limit	Air Waybill	
Header	OceanBL	AWB Weight Charge Prepaid	awb_wght_chg_prepaid	n/a	Air Waybill	decimal
Header	OceanBL	AWB Weight Charge Collect	awb_wght_chg_collect	n/a	Air Waybill	decimal
Header	OceanBL	AWB Valuation Charge Prepaid	awb_val_chg_prepaid	n/a	Air Waybill	decimal
Header	OceanBL	AWB Valuation Charge Collect	awb_val_chg_collect	n/a	Air Waybill	decimal
Header	OceanBL	AWB Tax Charge Prepaid	awb_tax_prepaid	n/a	Air Waybill	decimal
Header	OceanBL	AWB Tax Charge Collect	awb_tax_collect	n/a	Air Waybill	decimal

Header	OceanBL	AWB Charges Due Agent Prepaid	awb_due_agent_prepaid	n/a	Air Waybill	decimal
Header	OceanBL	AWB Charges Due Agent Collect	awb_due_agent_collect	n/a	Air Waybill	decimal
Header	OceanBL	AWB Charges Due Carrier Prepaid	awb_due_carrier_prepaid	n/a	Air Waybill	decimal
Header	OceanBL	AWB Charges Due Carrier Collect	awb_due_carrier_collect	n/a	Air Waybill	decimal
Header	OceanBL	AWB Total Prepaid	awb_total_prepaid	n/a	Air Waybill	decimal
Header	OceanBL	AWB Total Collect	awb_total_collect	n/a	Air Waybill	decimal
Header	OceanBL	AWB Other Charges	awb_other_charges	No limit	Air Waybill	
Header	OceanBL	AWB Date Executed	awb_executed	20	Air Waybill	
Header	OceanBL	AWB Place Executed	awb_place	20	Air Waybill	
Header	OceanBL	AWB Agent Signature	awb_signature_agent	20	Air Waybill	
Header	OceanBL	IATA Airport of Departure	iata_airport_departure	50	Dangerous Goods IATA and Non-Dangerous Goods	
Header	OceanBL	IATA Destination Airport	iata_airport_destination	50	Dangerous Goods IATA and Non-Dangerous Goods	
Header	OceanBL	IATA Transport Type Code	iata_transport_type	1	Dangerous Goods IATA	P for Passenger, C for Cargo
Header	OceanBL	IATA Shipper Name-Title	shipper_name_title	50	Dangerous Goods IATA and Non-Dangerous Goods	
Header	OceanBL	IATA Shipment Place	shipper_place	50	Dangerous Goods IATA and Non-Dangerous Goods	
Header	OceanBL	IATA Shipment Date	shipper_date	50	Dangerous Goods IATA and	MM/DD/YYYY

					Non-Dangerous Goods	
Header	OceanBL	IATA Radioactive Flag	iata_radioactive_flag	n/a	Dangerous Goods IATA	0 for No, 1 for Yes
Header	OceanBL	IATA Additional Handling	addtnl_handling	250	Dangerous Goods IATA	
Header	OceanBL	IMO Vessel-Flight-Date	imo_ship_voyagenum	50	Dangerous Goods IMO	
Header	OceanBL	IMO Port of Handling	imo_port_of_handling	50	Dangerous Goods IMO	
Header	OceanBL	IMO Container ID Number	imo_container_id	50	Dangerous Goods IMO	
Header	OceanBL	IMO Seal Number	imo_seal_num	50	Dangerous Goods IMO	
Header	OceanBL	IMO Container Type-Size	imo_container_size	50	Dangerous Goods IMO	
Header	OceanBL	IMO Tare Mass (kg)	imo_tare	50	Dangerous Goods IMO	
Header	OceanBL	IMO Gross Mass (kg)	imo_total_gross_mass	50	Dangerous Goods IMO	
Header	OceanBL	IMO Transportation Reference No.	imo_reference_num	30	Dangerous Goods IMO	
Header	OceanBL	IMO Shipper Reference Number	imo_shipper_ref_num	50	Dangerous Goods IMO	
Header	OceanBL	IMO Forwarder Reference Number	imo_fwrdr_ref_num	50	Dangerous Goods IMO	
Header	OceanBL	IMO Carrier	imo_carrier_name	50	Dangerous Goods IMO	
Header	OceanBL	IMO Packing Company	imo_packer_company	50	Dangerous Goods IMO	
Header	OceanBL	IMO Packing Name-Status	imo_packer_name_status	50	Dangerous Goods IMO	
Header	OceanBL	IMO Packing Place-Date	imo_packer_date	50	Dangerous Goods IMO	
Header	OceanBL	IMO Hauler Name	imo_hauler_name	50	Dangerous Goods IMO	
Header	OceanBL	IMO Vehicle Reg Number	imo_hauler_vehicle_no	50	Dangerous Goods IMO	
Header	OceanBL	IMO Hauler Driver-Date	imo_hauler_name_date	50	Dangerous Goods IMO	
Header	OceanBL	IMO Preparer Company	imo_preparing_company	50	Dangerous Goods IMO	
Header	OceanBL	IMO Preparer Name-Status	imo_preparing_name_status	50	Dangerous Goods IMO	
Header	OceanBL	IMO Preparer Place-Date	imo_preparing_place_date	50	Dangerous Goods IMO	

Header	OceanBL	Non-Dangerous Goods Description	articles_not_restricted	No limit	Non-Dangerous Goods	
Header	OceanBL	IATA 24-Hour Phone Number	24hr_phone	2000	Dangerous Goods IATA	
Header	SLI	Inland Freight Fees Quote	sli_if_q	n/a	Shipper's Letter of Instruction	decimal
Header	SLI	OceanAir Fees Quote	sli_oa_q	n/a	Shipper's Letter of Instruction	decimal
Header	SLI	Handling Fees Quote	sli_hf_q	n/a	Shipper's Letter of Instruction	decimal
Header	SLI	Insurance Fees Quote	sli_ic_q	n/a	Shipper's Letter of Instruction	decimal
Header	SLI	Consular Fees Quote	sli_cf_q	n/a	Shipper's Letter of Instruction	decimal
Header	SLI	Additional Charges Quote	sli_ac_q	n/a	Shipper's Letter of Instruction	decimal
Header	SLI	Inland Freight Fees Adjustment	sli_if_a	n/a	Shipper's Letter of Instruction	decimal
Header	SLI	OceanAir Fees Adjustment	sli_oa_a	n/a	Shipper's Letter of Instruction	decimal
Header	SLI	Handling Fees Adjustment	sli_hf_a	n/a	Shipper's Letter of Instruction	decimal
Header	SLI	Insurance Fees Adjustment	sli_ic_a	n/a	Shipper's Letter of Instruction	decimal
Header	SLI	Consular Fees Adjustment	sli_cf_a	n/a	Shipper's Letter of Instruction	decimal
Header	SLI	Additional Charges Adjustment	sli_ac_a	n/a	Shipper's Letter of Instruction	decimal
Header	SLI	Adjust Inland Freight Flag	sli_if_yn	n/a	Shipper's Letter of Instruction	0 for No, 1 for Yes
Header	SLI	Adjust OceanAir Flag	sli_oa_yn	n/a	Shipper's Letter of Instruction	0 for No, 1 for Yes
Header	SLI	Adjust Handling Flag	sli_hf_yn	n/a	Shipper's Letter of Instruction	0 for No, 1 for Yes

Header	SLI	Adjust Insurance Flag	sli_ic_yn	n/a	Shipper's Letter of Instruction	0 for No, 1 for Yes
Header	SLI	Adjust Consular Flag	sli_cf_yn	n/a	Shipper's Letter of Instruction	0 for No, 1 for Yes
Header	SLI	Adjust Additional Flag	sli_ac_yn	n/a	Shipper's Letter of Instruction	0 for No, 1 for Yes
Header	SLI	Quote on These Charges Flag	sli_quote	n/a	Shipper's Letter of Instruction	0 for No, 1 for Yes
Header	SLI	Adjust Invoice with Charges Flag	sli_adjust	n/a	Shipper's Letter of Instruction	0 for No, 1 for Yes
Header	SLI	Respond with Costs By Code	sli_respond_with_costs	50	Shipper's Letter of Instruction	Phone, Fax or Email
Header	SLI	How to Bill Freight Code	sli_freight_prepaid	50	Shipper's Letter of Instruction	Collect or Prepaid
Header	SLI	Shipping Details Code	sli_shipping_cons_direct	50	Shipper's Letter of Instruction	Consolidate or Direct
Header	SLI	Insurance Required Flag	sli_insurance_required	n/a	Shipper's Letter of Instruction	0 for No, 1 for Yes
Header	SLI	Type of Insurance	sli_insurance_type	No limit	Shipper's Letter of Instruction	
Header	SLI	License Number-Symbol	sli_lic_num_symbol	25	Shipper's Letter of Instruction	
Header	SLI	Forward Documents To	sli_fwd_docs_to	40	Shipper's Letter of Instruction	
Header	SLI	Invoice Attached Flag	sli_doc_inv	n/a	Shipper's Letter of Instruction	0 for No, 1 for Yes
Header	SLI	NAFTA Attached Flag	sli_doc_nf	n/a	Shipper's Letter of Instruction	0 for No, 1 for Yes
Header	SLI	Inland Bill of Lading Attached Flag	sli_doc_ov	n/a	Shipper's Letter of Instruction	0 for No, 1 for Yes
Header	SLI	Packing List Attached Flag	sli_doc_pl	n/a	Shipper's Letter of Instruction	0 for No, 1 for Yes
Header	SLI	Certificate of Origin Attached Flag	sli_doc_co	n/a	Shipper's Letter of Instruction	0 for No, 1 for Yes

Header	SLI	Bank Draft Attached Flag	sli_doc_dr	n/a	Shipper's Letter of Instruction	0 for No, 1 for Yes
Header	SLI	Attachment Flag	sli_doc_att	n/a	Shipper's Letter of Instruction	0 for No, 1 for Yes
Header	SLI	Other Attached Flag	sli_doc_Othr	n/a	Shipper's Letter of Instruction	0 for No, 1 for Yes
Header	SLI	Cert of Origin Dated At	Sli_user_8	n/a	Shipper's Letter of Instruction	
Header	SLI	Cert of Origin – Day	sli_user_3	n/a	Shipper's Letter of Instruction	
Header	SLI	Cert of Origin – Month	sli_user_9	n/a	Shipper's Letter of Instruction	
Header	SLI	Cert of Origin – Year	sli_user_10	n/a	Shipper's Letter of Instruction	
Header	SLI	SLI Special Instructions	sli_spcl_instruct	n/a	Shipper's Letter of Instruction	
Header	SLI	Cert of Origin Special Instructions	sli_user_7	n/a	Shipper's Letter of Instruction	

## Inbond Type Codes for AESDirect

Codes	Inbond Type
36	Warehouse withdrawal for IE
37	Warehouse withdrawal for T&E
67	Foreign Trade Zone withdrawal for IE
68	Foreign Trade Zone withdrawal for T&E
70	Not Sold Inbond

## Acceptable Content for the Mode of Transport Fields

Mode of Transport	Mode of Transport Code	Mode of Transport Type
Air	40	A
Air, Containerized	41	A
Vessel	10	S
Vessel, Containerized	11	S
Barge	12	S

<b>Rail</b>	20	S
<b>Rail, Containerized</b>	21	S
<b>Truck</b>	30	S
<b>Truck, Containerized</b>	31	S
<b>Auto</b>	32	O
<b>Pedestrian</b>	33	O
<b>Road, Other</b>	34	O
<b>Mail</b>	50	O
<b>Passenger, Hand Carried</b>	60	O
<b>Fixed Transport (Pipeline and Powerhouse)</b>	70	O

In order for **Mode of Transport** data to be successfully imported into Shipping Solutions Professional, you need to map all three of these data fields.

<b>Code</b>	<b>Contact Type</b>
BB	Inland Bill of Lading Bill To
BC	Inland Bill of Lading Consignee
BK	Bank (for restricted party screenings only)
BT	Bill To
CB	Not used
CE	Canada Customs Invoice Exporter
CO	Canada Customs Invoice Originator
CP	Canada Customs Invoice Purchaser
EU	End User (for restricted party screenings only)
EX	Exporter
FA	Forwarding Agent
FF	Freight Forwarder
FL	Freight Location Company
IC	Intermediate Consignee
MA	Manufacturer (for restricted party screenings only)
NC	FTA Certifier
NI	FTA Importer
NP	FTA Producer
NT	Notify Party
OC	Ocean Bill of Lading Also Notify
UC	Ultimate Consignee

When running the DXM using an XML file, you will need to identify each contact type using these codes. The **EX** contact type is required but can be blank.

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