



# ACHIEVE FREIGHT CONTROL INSTALLATION GUIDE

User Guide  
Version 6.5

PRESENTED BY  
ACHIEVE IT SOLUTIONS



**SAP**<sup>®</sup> Certified  
SAP Business One Integration

Copyright 2016 by Achieve IT Solutions

These materials are subject to change without notice. These materials are provided by Achieve IT Solutions for informational purposes only, without representation or warranty of any kind, and Achieve IT Solutions shall not be liable for errors or omissions with respect to the materials.

The use and copying of this document and the associated computer software is subject to Achieve IT Solutions customer registration agreement. Any other use is prohibited.

Achieve One is a trademark of Achieve IT Solutions.

SAP Business One is a trademark of SAP AG.

WorldShip® is a trademark of United Parcel Service, Inc.

Ship Manager® is a trademark of Federal Express, Inc.

The **Achieve One Suite**, including these installation procedures, has been certified by SAP as conforming to SAP's standards for Business One add-on solutions.

**SAP**® Certified  
SAP Business One Integration

**Achieve IT Solutions**

640 Belle Terre Road

Building B

Port Jefferson, New York 11777

631-543-3200

## Achieve Freight Control Installation

***This section is required only for installations that include Achieve Freight Control. If necessary, please consult your support representative or contact Achieve IT Solutions for technical assistance.***

### Creating Data Links on the Shipping Workstation

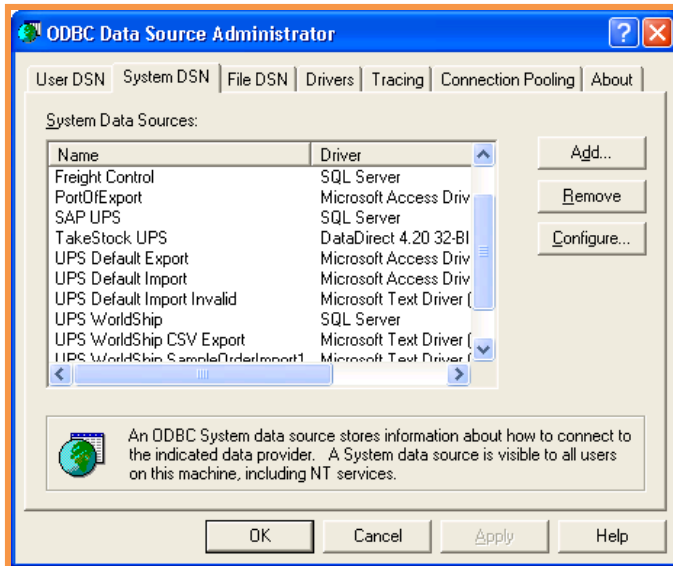
The following configurations must be performed on each workstation that will be used for shipping orders originating in Business One. It is necessary to create links between the carrier's shipping system and the SAP system for the import and export of data. The same procedure is used for UPS WorldShip® workstations and FedEx Ship Manager® workstations.

First we need to get to the ODBC Data Source Administrator.

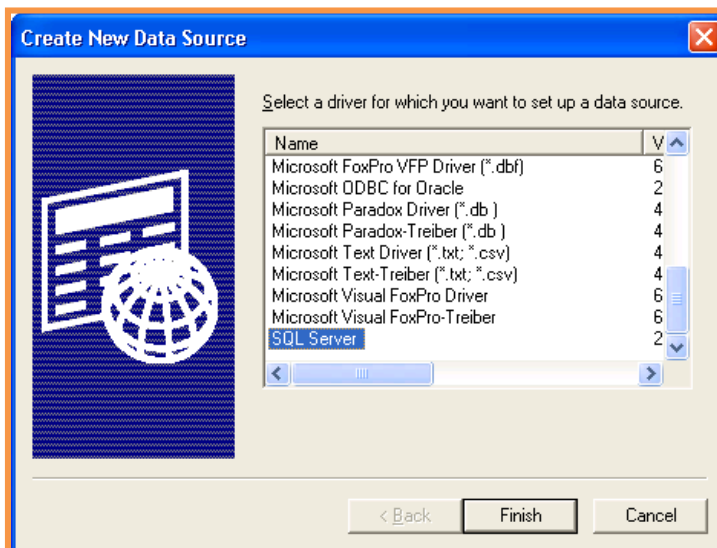
If you are on a 32-bit machine, go to *Start > Control Panel > Administrative Tools > Data Sources (ODBC)* to open it up.

If you are on a 64-bit machine, go to *C:\Windows\SysWOW64*, find *odbcad32.exe*, right click on it and Run as Administrator to open it up.

Once in there, select the tab for System DSN. Click on "Add" to create a new DSN.



Select the SQL Server driver, then click “Finish”.

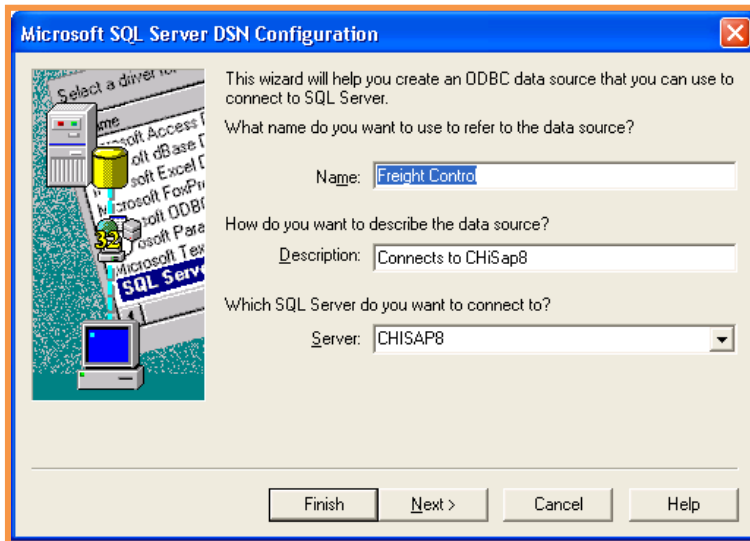


Enter a name for the data source connection (“Freight Control” for example).

Enter a description for the connection.

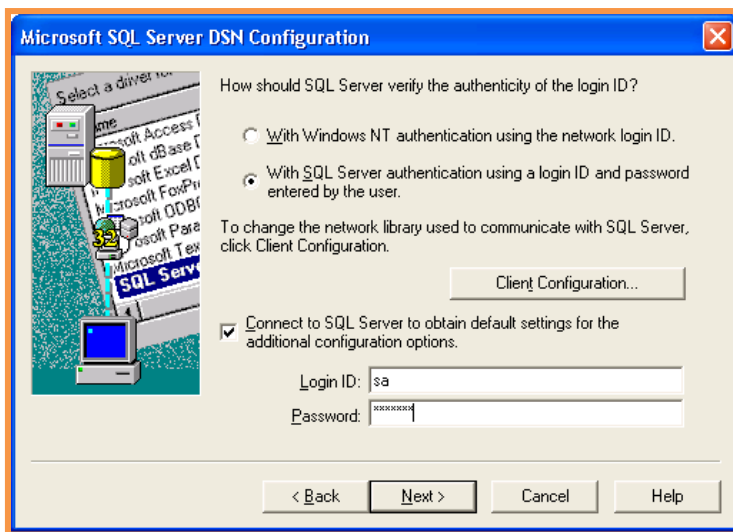
Select the name of the server that contains the Business One and Achieve One databases.

Click on “Next”.



Check the box “Connect to SQL Server to obtain default settings”. Enter the SQL login ID (usually “sa”) and the password.

Click on “Next”.

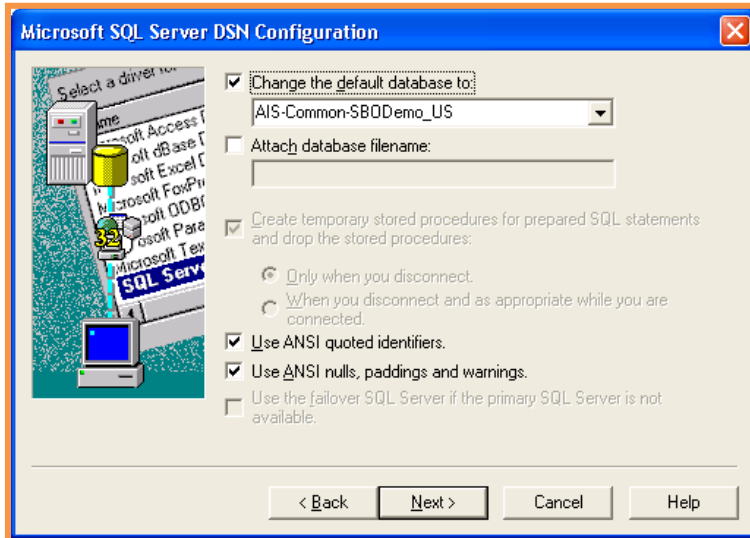


Check “change the default database to” and select the database for sales order import:

**Note:** You must select a database name beginning with “AIS-Common-”, followed by your company database name.

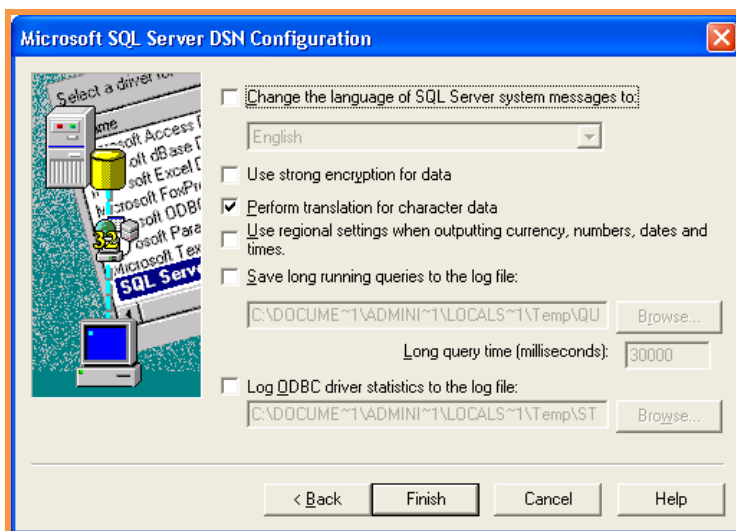
Leave the other fields with default settings as shown below.

Click on “Next”.

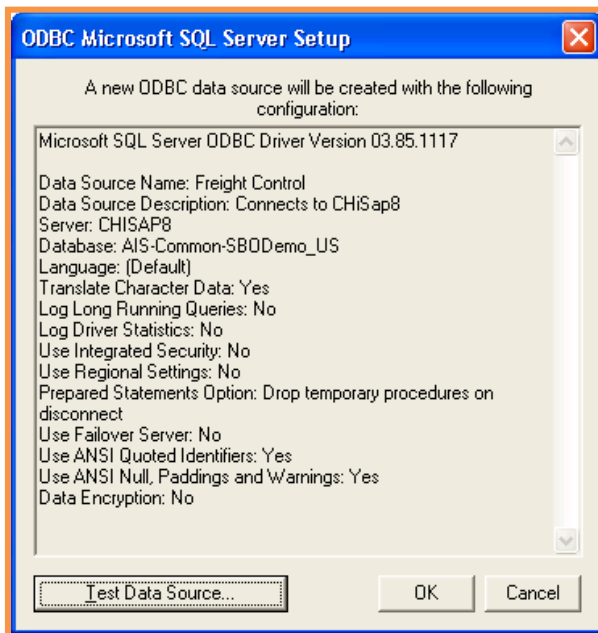


Leave default settings on this screen, as shown below.

Click on “Finish”.



The screen displays a summary of the configuration entries. You may test the connection by clicking on the “Test Data Source” button. Click on “OK” to exit.



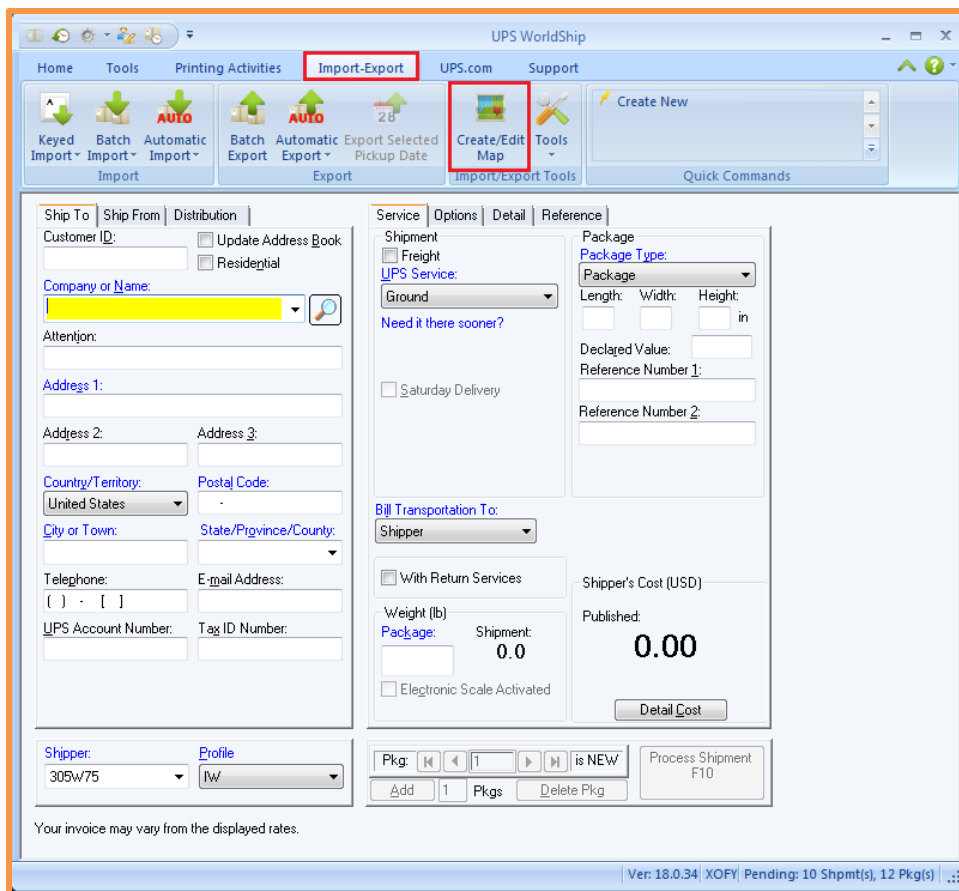
## Configuring the UPS WorldShip® Program

**Please be aware that UPS WorldShip® may be changed at any time. The instructions below were developed using WorldShip® 2015, version 18.0, build 34. It is always advisable to consult with a UPS support representative when configuring a WorldShip® interface.**

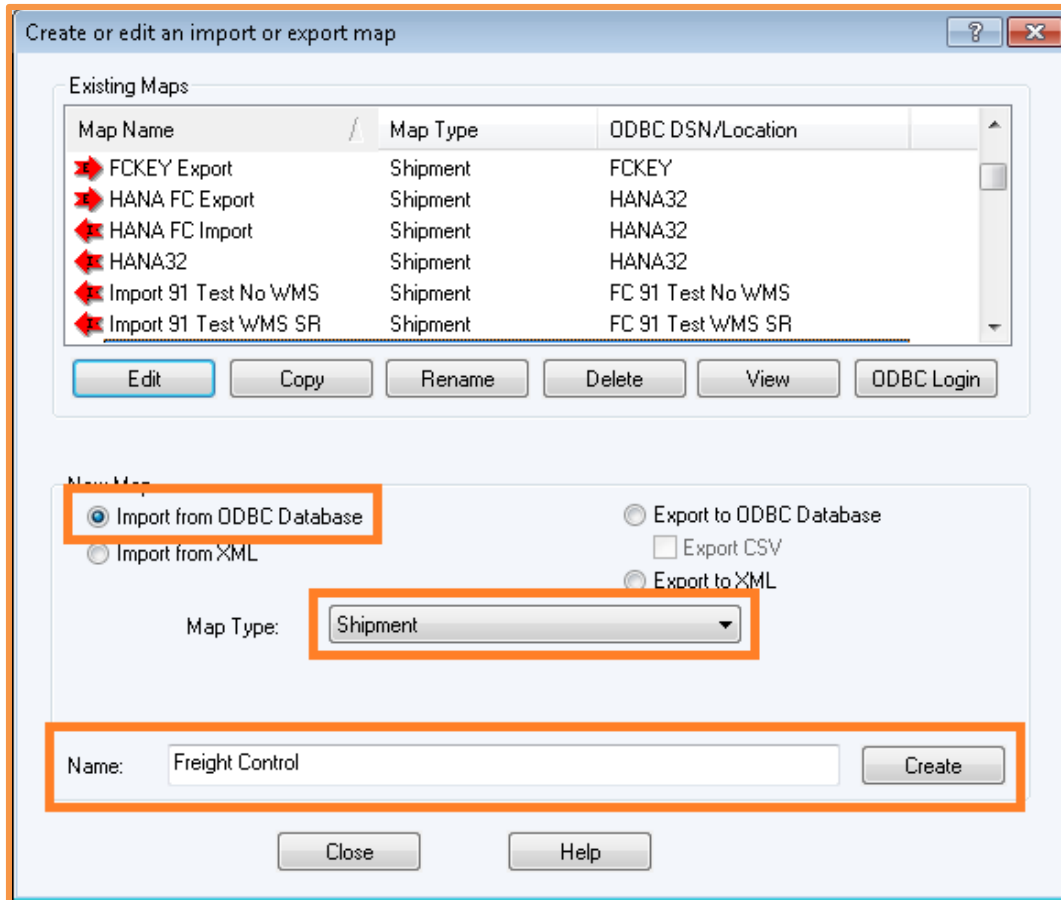
It is necessary to create import and export mappings, so that the WorldShip® system can relate the data fields in the Business One system to its own data fields.

### Create Import Map

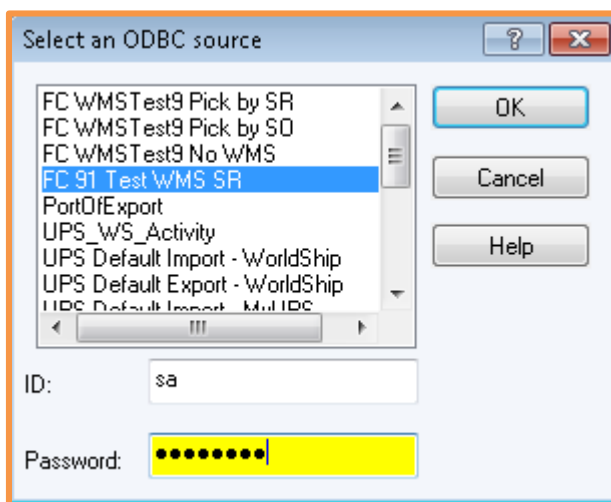
Open the WorldShip® program and use the menu bar to select Import/Export > Create/Edit Map



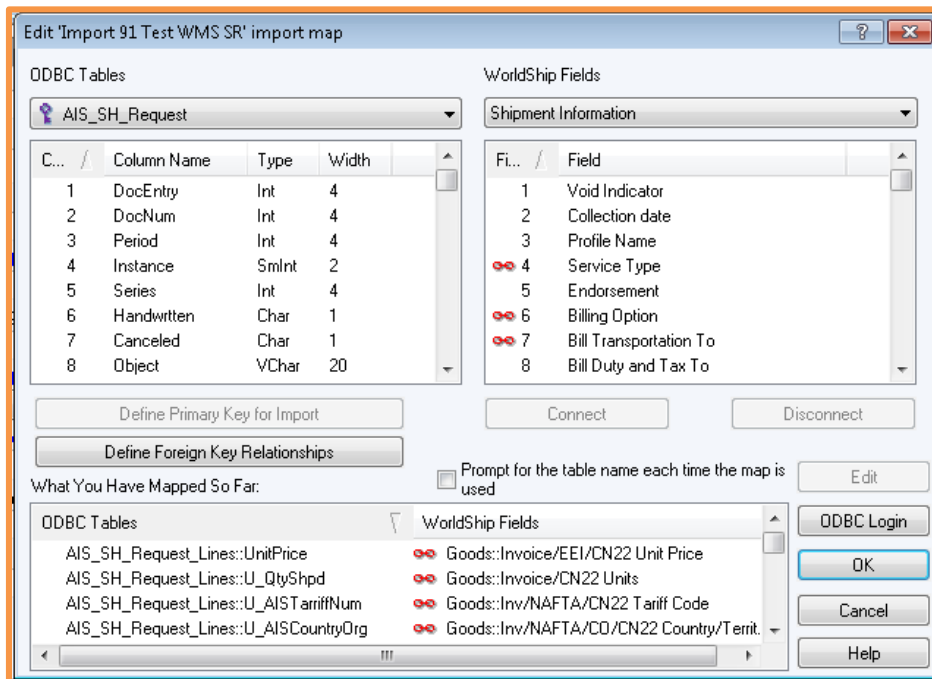




In the lower part of the screen, select “Import from ODBC Database”. In the dropdown field, select “Shipment”. Then enter a name for the import map, and click on “Create”.



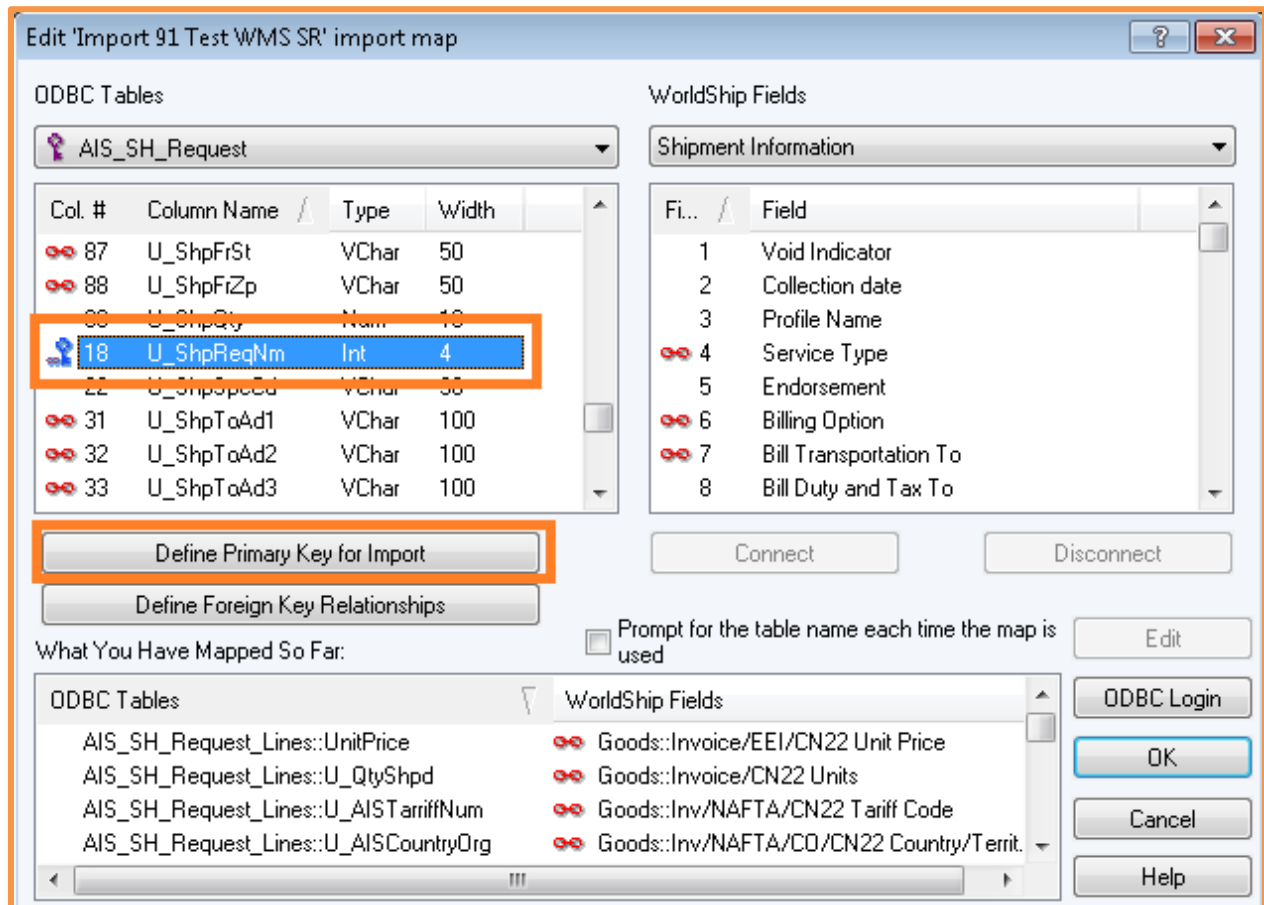
The screen displays a list of all ODBC DSN sources that have been created on the workstation. Select the one that was created in the previous section. Enter the SQL ID and password. Click on “OK”.



Using the charts found in the Appendix of this manual, match the column names in the ODBC tables with the WorldShip® field names. As each match is highlighted, click on “Connect”. The matched fields are shown at the bottom of the screen.

**Note:** You must set the table name above each list of fields; several different tables are used from each system.

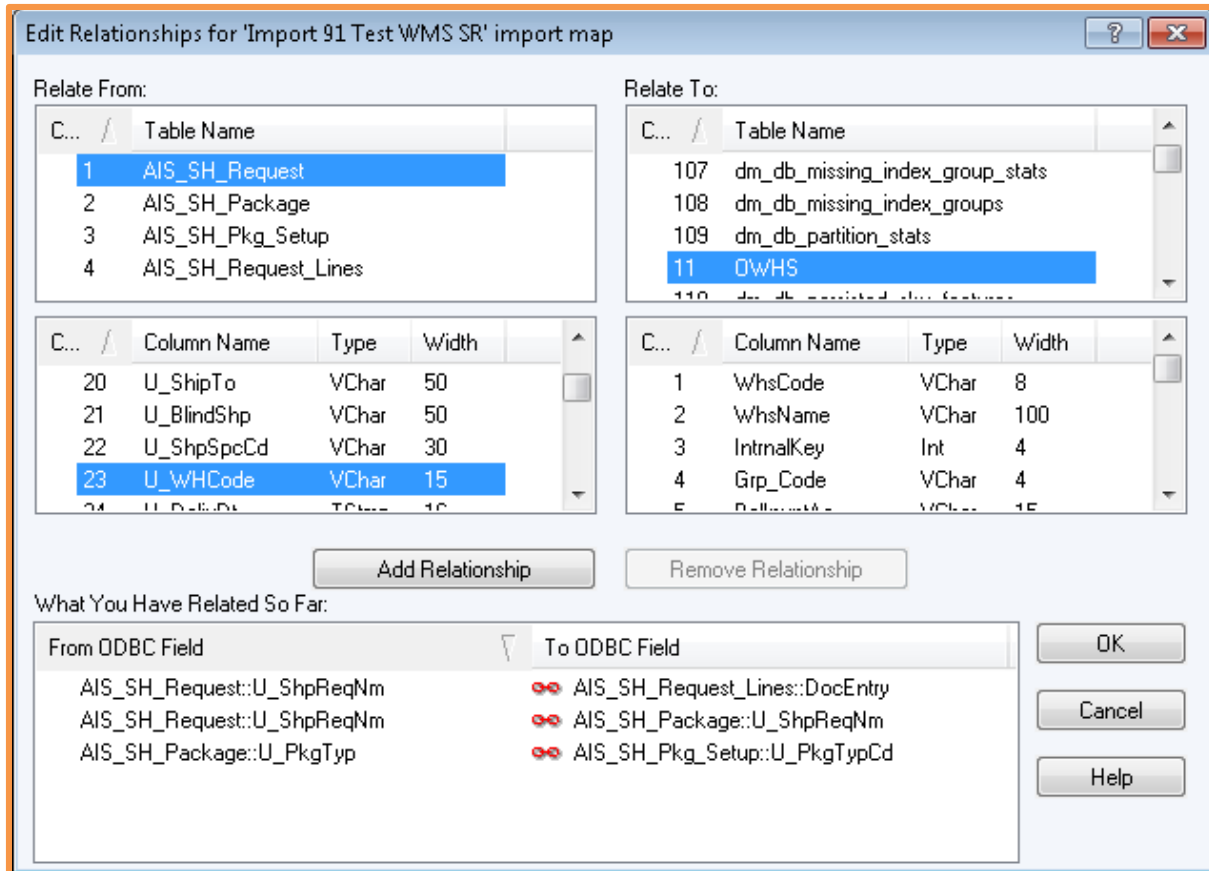
## Set Primary Key



Set field U\_ShpReqNum from table AIS\_SH\_Request as the primary key for import.

## Set Foreign Key Relationships

Click on “Define Foreign Key Relationships” to indicate fields in one table that are related to specified fields in another table.

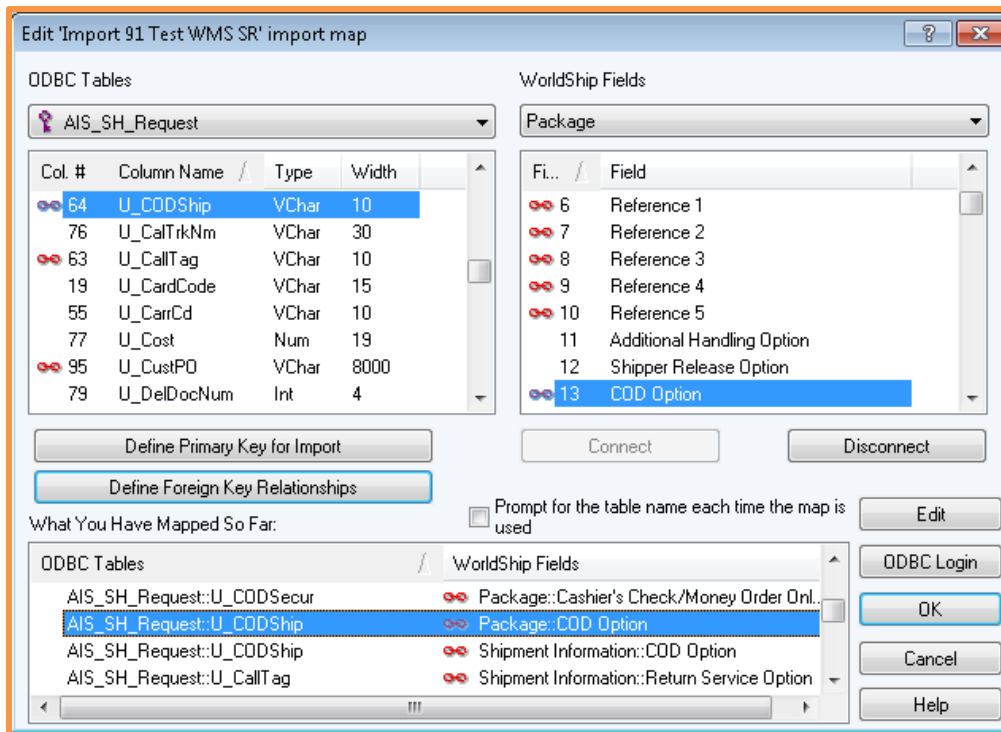


**Set the following relationships:**

Relate From Table	Field	Relate To Table	Field
AIS_SH_Request	U_ShpReqNm	AIS_SH_Package	U_ShpReqNm
AIS_SH_Package	U_PkgTyp	AIS_SH_Pkg_Setup	U_PkgTypCd

## Map Field Translations

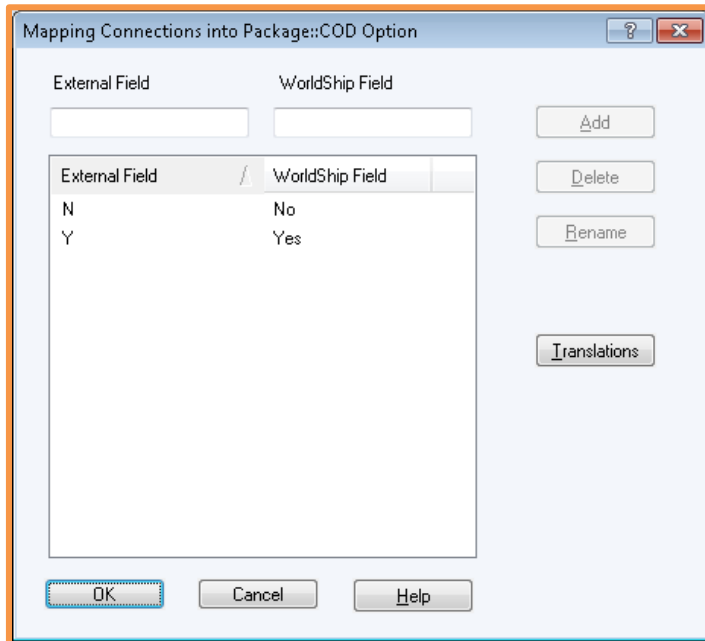
Some fields contain codes which are not the same in WorldShip® as they are in Business One. It is necessary to map the individual codes so that WorldShip® creates the correct content in each field. To do this, highlight the connected fields, and click on “Edit”.



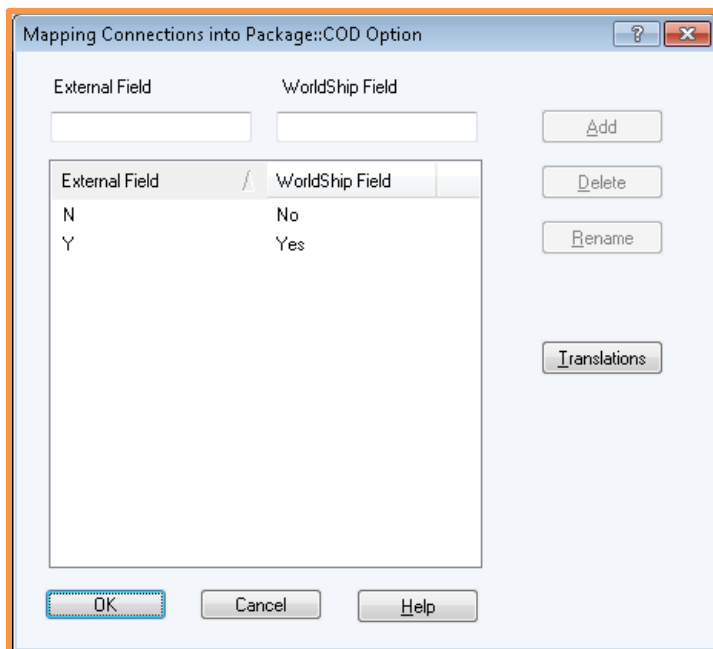
The screen will then allow you to enter all of the possible entries in the Business One field, and the corresponding entries in WorldShip®.

The following connections must be edited in this way:

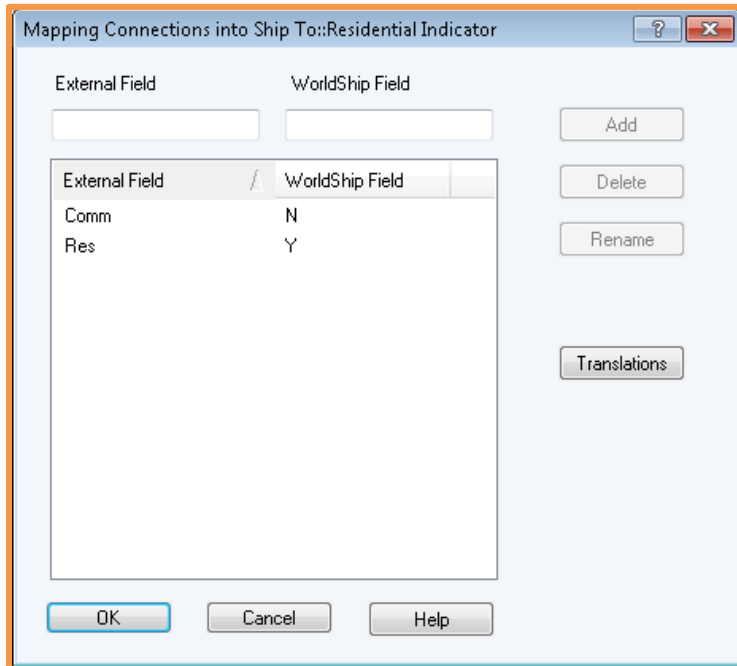
***AIS\_SH\_Request:U\_AISDeclared with Package:Declared Value Option***



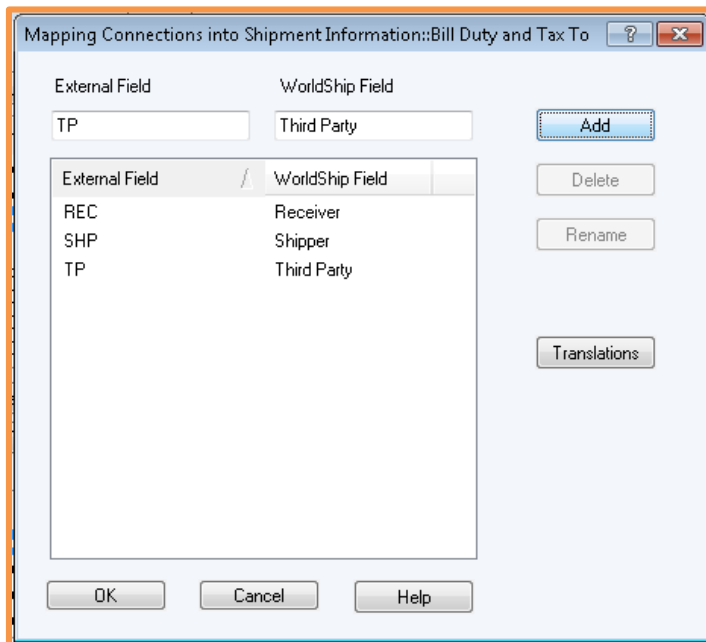
***AIS\_SH\_Request:U\_CODShip with Package:COD Option***



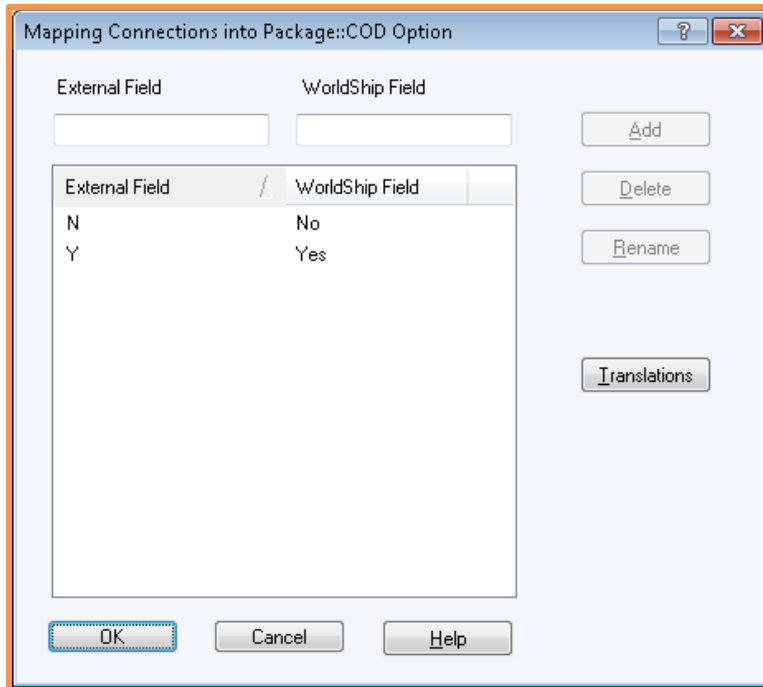
***AIS\_SH\_Request:U\_AISResComm with Ship To:Residential Indicator***



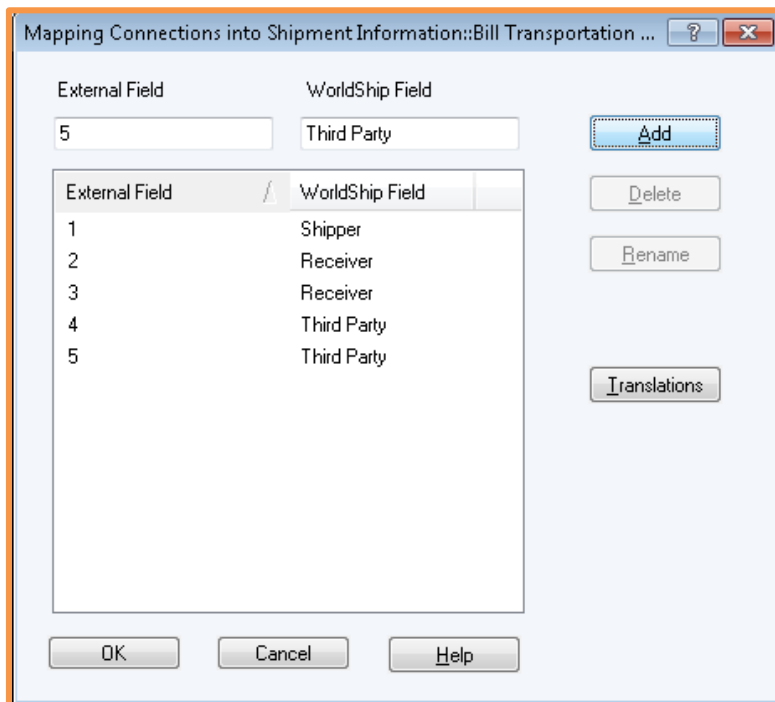
***AIS\_SH\_Request:U\_BillDuty with Shipment Information:Bill Duty and Tax To***



***AIS\_SH\_Request:U\_CODShip with Shipment Information: COD Option***

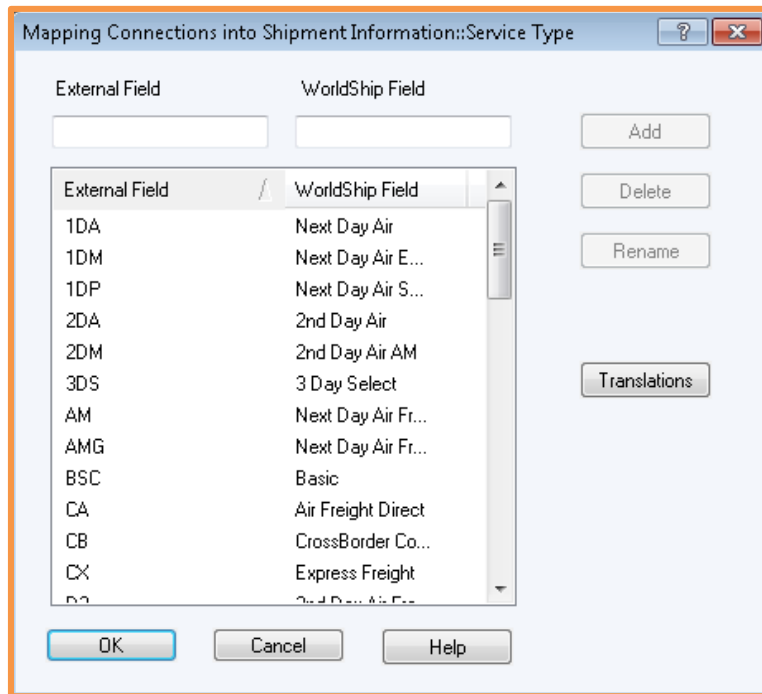


***AIS\_SH\_Request:U\_FrtChgTp with Shipment Information: Bill Transportation To***





## AIS\_SH\_Request:U\_SvcLvl with Shipment Information:Service Type



**Please Note:** In this case the entries in the “External Field” column must match the UPS service levels found in the **Achieve Freight Control** Carrier Setup. You can use any codes you like for this, but if you use the standard UPS codes in **Achieve Freight Control**, you can then populate this mapping screen by clicking on “Translations” – all possible UPS codes will be entered along with their descriptions. It is not necessary to include all of the codes in **Achieve Freight Control**, as long as all codes that are used match exactly to the UPS codes.

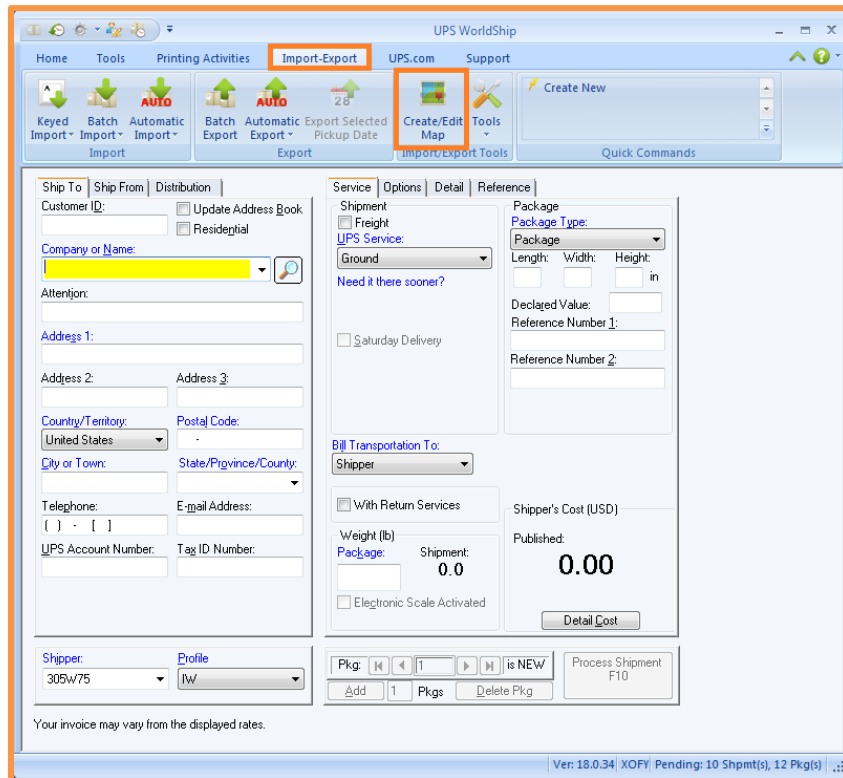
You may also choose to Edit other mappings the make sure your field values match UPS’s, such as Units of Measure, Package Types, etc.

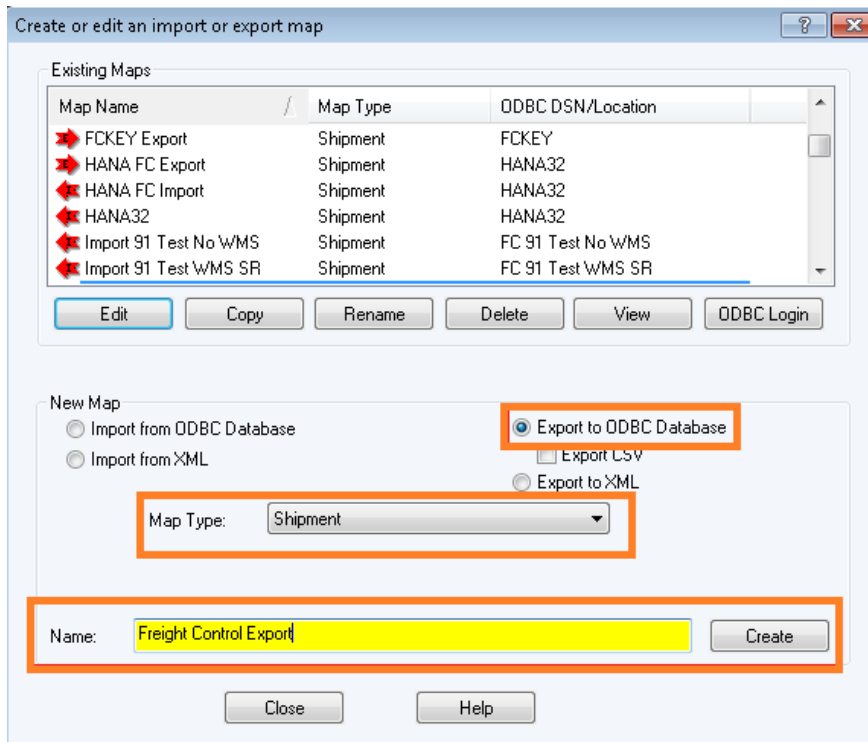
When all of the mapping entries are complete, click on “OK” to save the entries and exit.

**Note:** You may return to the map at any time to make more entries or to edit the existing ones.

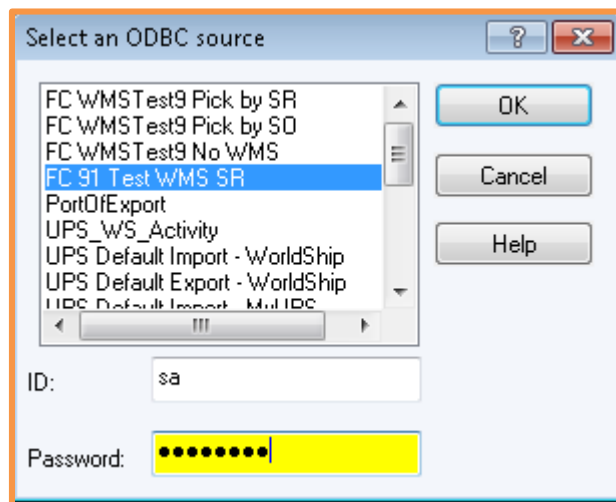
## Create Export Map

Open the WorldShip® program and use the menu bar to select Import/Export Data > Create/Edit Maps

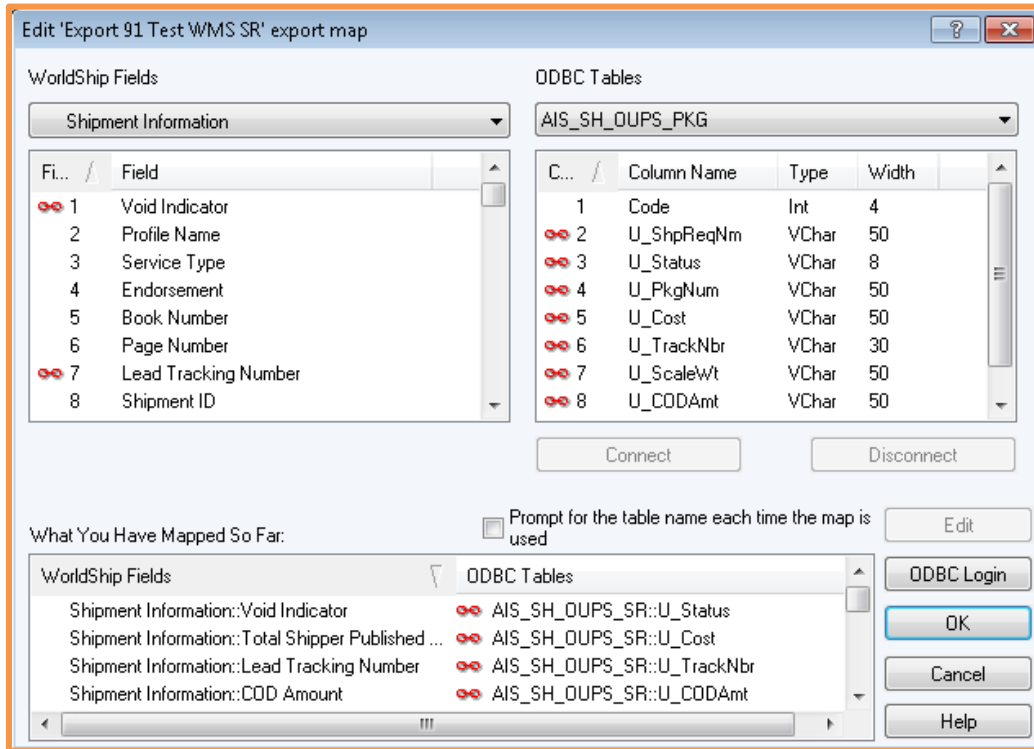




In the lower part of the screen, select “Export from ODBC Database”. In the dropdown field, select “Shipment”. Then enter a name for the import map, and click on “Create”.



The screen displays a list of all ODBC DSN sources that have been created on the workstation. Select the one that was created in the previous section. Enter the SQL ID and password. Click on “OK”.



Using the charts found in the Appendix of this manual, match the fields in the WorldShip® tables with the ODBC column names. As each match is highlighted, click on “Connect”. The matched fields are shown at the bottom of the screen.

**Note:** You must set the table name above each list of fields; several different tables are used from each system. (**Note:** The positions of the WorldShip® and ODBC tables are reversed from the import mapping.)

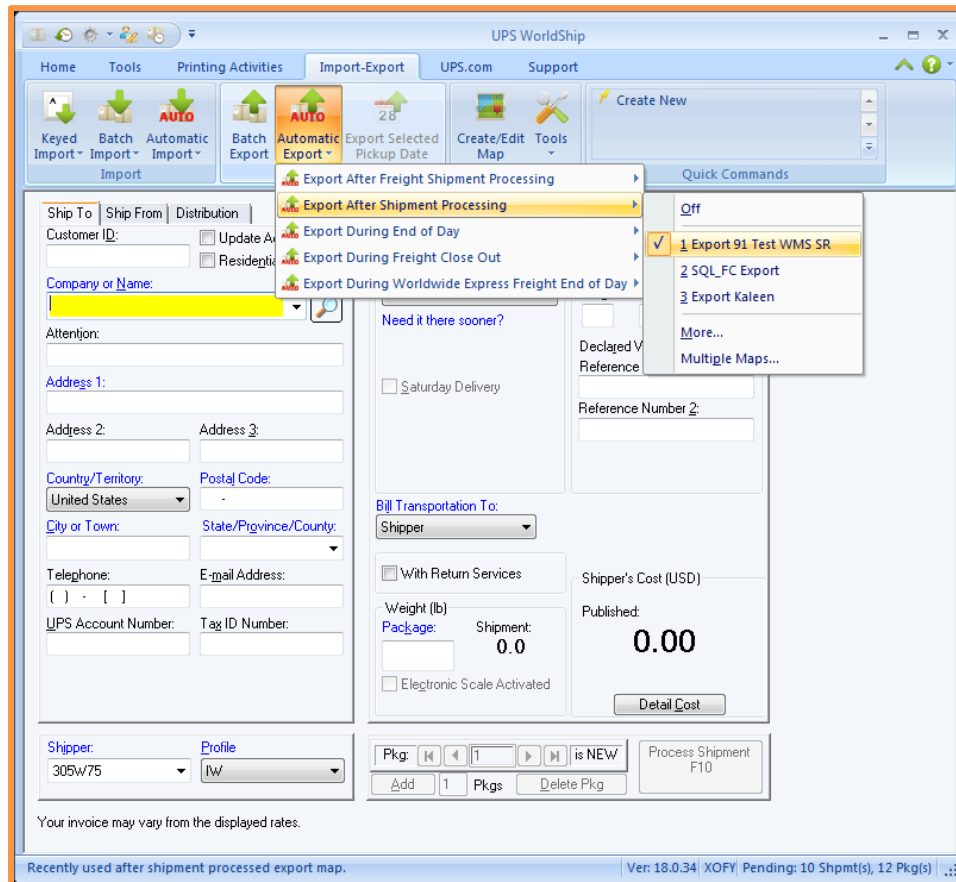
It is not necessary to set a key field, primary key relationships, or field translations for the export map.

When all of the mapping entries are complete, click on “OK” to save the entries and exit.

**Note:** You may return to the map at any time to make more entries or to edit the existing ones.

## Activate Automatic Export

Before beginning to use WorldShip® in combination with Business One, it is necessary to ensure that data from the shipments will be exported to the Shipping Request documents.

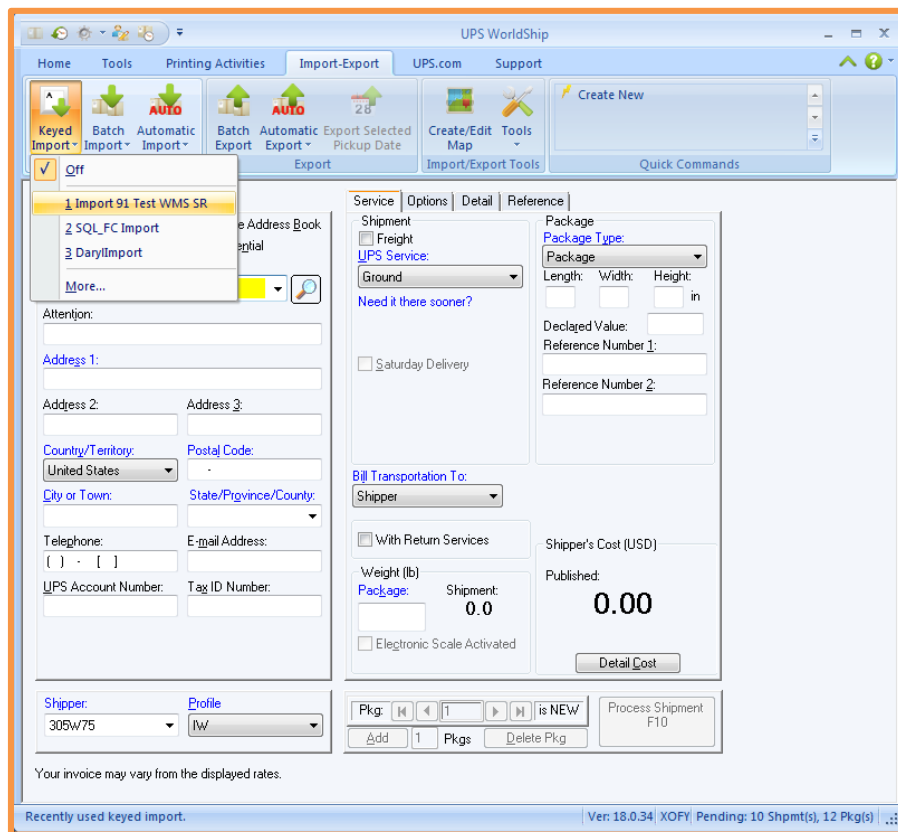


From the main WorldShip® screen, select Import/Export Data > Automatic Export after Processing Shipment. Select the name of the export map that was created for the Business One database.

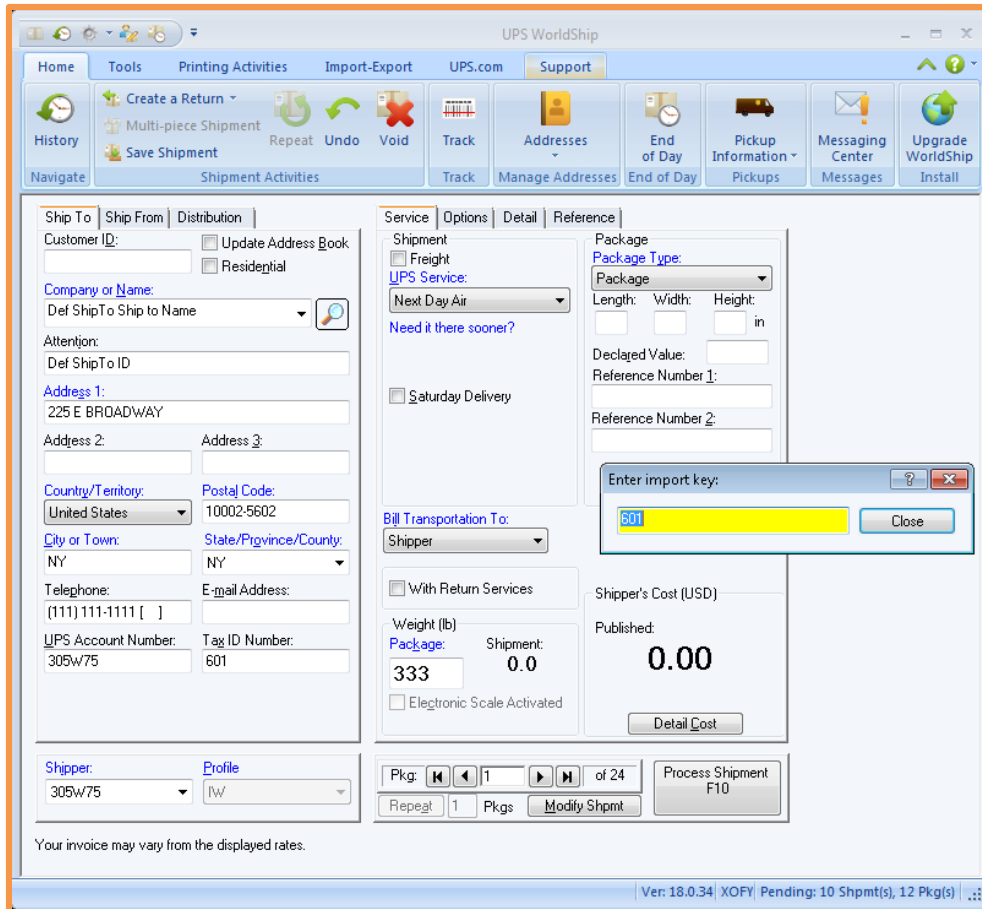
Once the map is selected, there will be a checkmark next to it when the menu is opened. This setting should remain after the user exits from WorldShip® and logs back in at a later time. However, it is recommended to check the setting each day before beginning to process shipments.

## Activate Keyed Import Field

As users prepare to use the WorldShip® program to ship orders that originated in SAP Business One, they must activate the Keyed Import field. This enables them to enter the Shipping Request number so that the WorldShip® program will automatically import data from the order.



From the main WorldShip® screen, select Import/Export Data > Keyed Import. Select the name of the import map that was created for the Business One database.



The Enter Import Key window will appear on the screen. Users may enter a shipping request number in this field, and the system will automatically import all necessary data regarding the shipment. The user will then continue with normal shipment processing, including weighing packages, entering any additional information, etc.

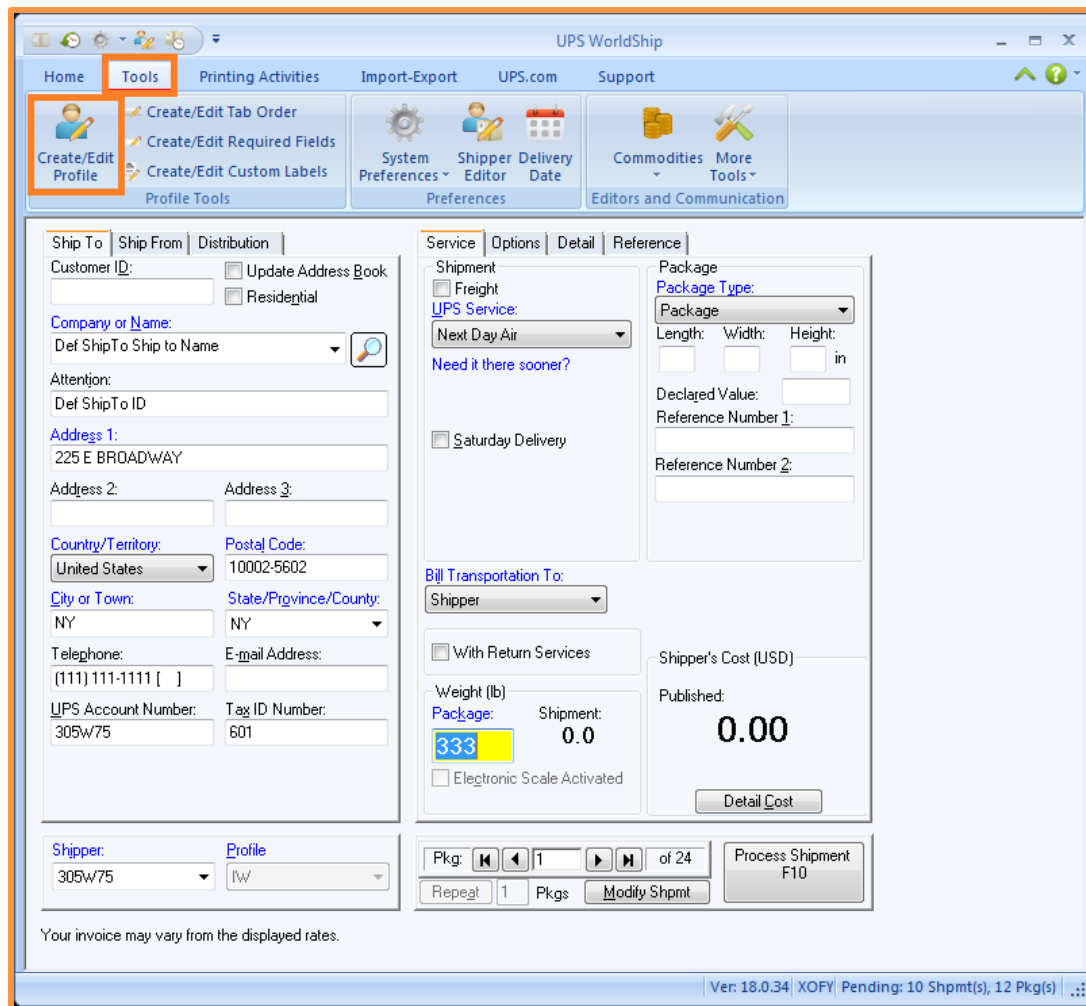
**Note:** *The Enter Import Key window will remain on the screen for the rest of the session, unless the user closes it. If it is closed, it may be opened again from the drop-down menu. If the window is open at the time the user exits from WorldShip®, it should appear automatically the next time the user opens the WorldShip® program.*

## Additional Settings

There are a couple of settings that you may want to take advantage of before you start using the program for the first time.

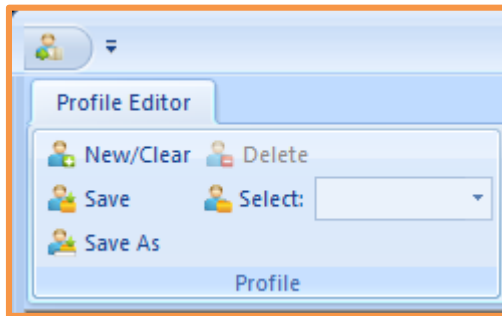
### Profile Editor

The profile editor allows you to set defaults for some of the fields you might be using so you won't have to enter them each time you do a shipment. To get to it, go to the Tools menu at the top, and choose Profile Editor.



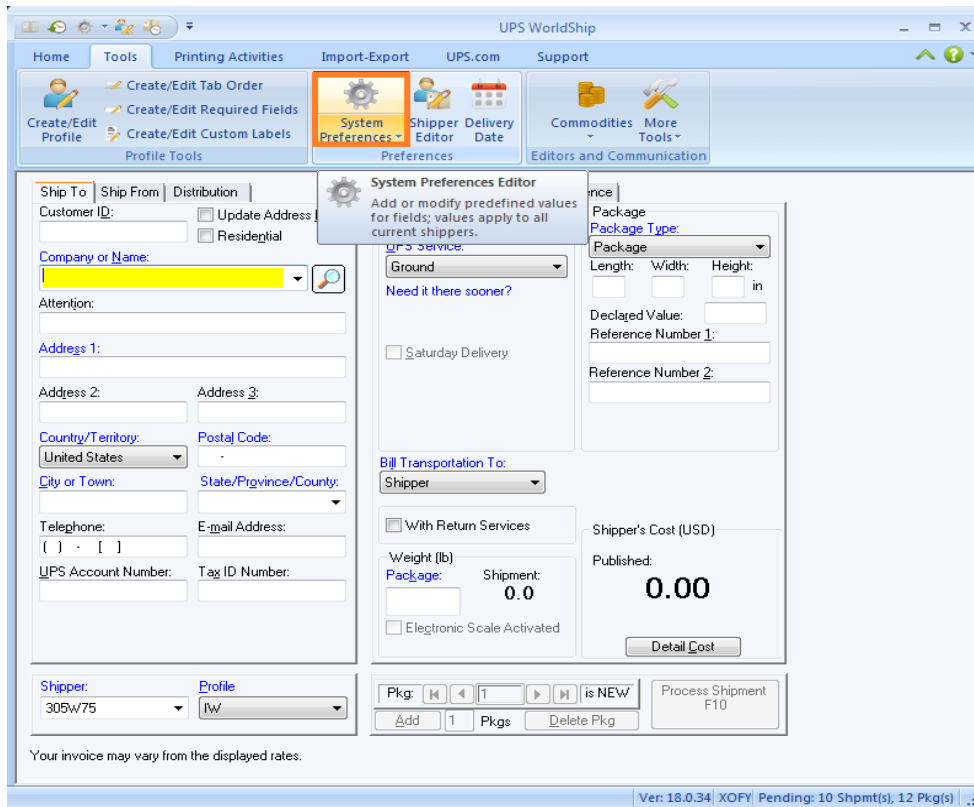


Once you are don't making changes to your Profile, just click the Save Profile button on the right side.



### System Preferences Editor

There is a setting that can be extremely helpful when turned off, and that is the Always Update Address Book setting. To get to it choose Tools from the top then System Preferences Editor. Once in there go to the Shipping tab and you will see it right at the top. If left checked off it can cause all kinds of headaches when importing the data from SAP. To make things easier it is best to make sure this setting is unchecked.



System Preferences Editor

Hardware | Printing Setup | Shipment Detail Report Setup | **Shipping** | Miscellaneous | System Settings

**Address Options**

Always Update Address Book

Address 1:

First Entry Field:

Automatically select Ship Notification

Pickup Date Selection

Manually Select Pickup Dates (Future Date Processing)

Freight

Commodity Weight Type:

End of Day Processing

End of Day Default:

With Return Services

Automatic Display of Delivery Dates

US Ground  Non-US

Ground Freight Pickup Request

Schedule Pickup during Freight Processing

Unit of Measure

Metric (kg, cm)

Imperial (lb, in)

Handling Units

Apply Pallet Defaults:

Pallet Weight:

Dry Ice Preferences...

Pickup Notifications

OK

Apply

Cancel

Help

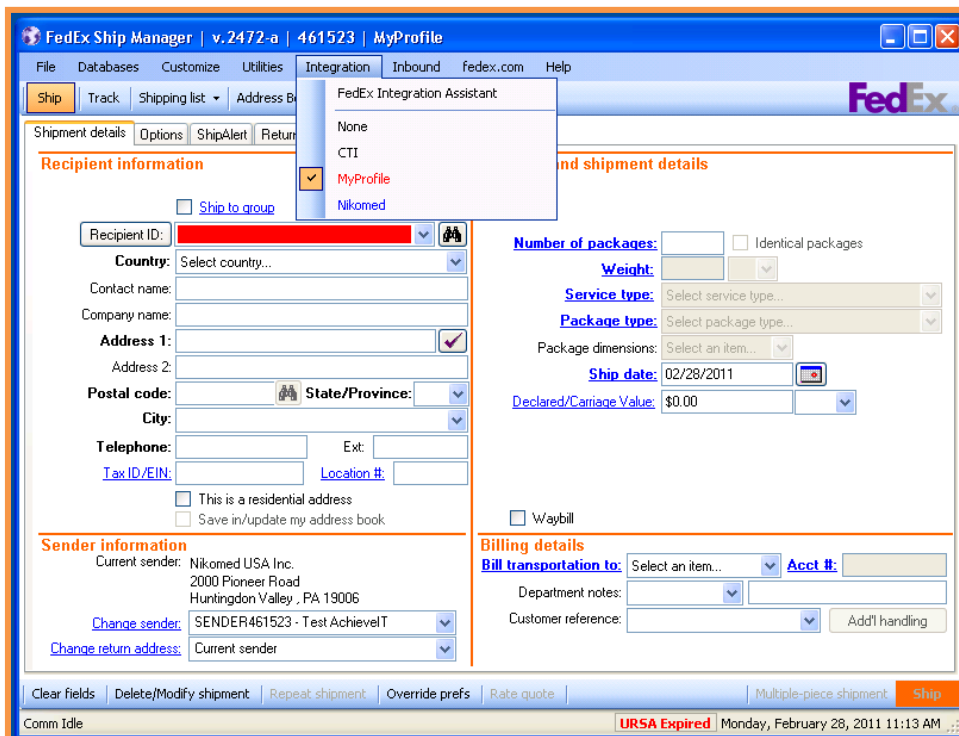
## Configuring the FedEx Ship Manager® Program

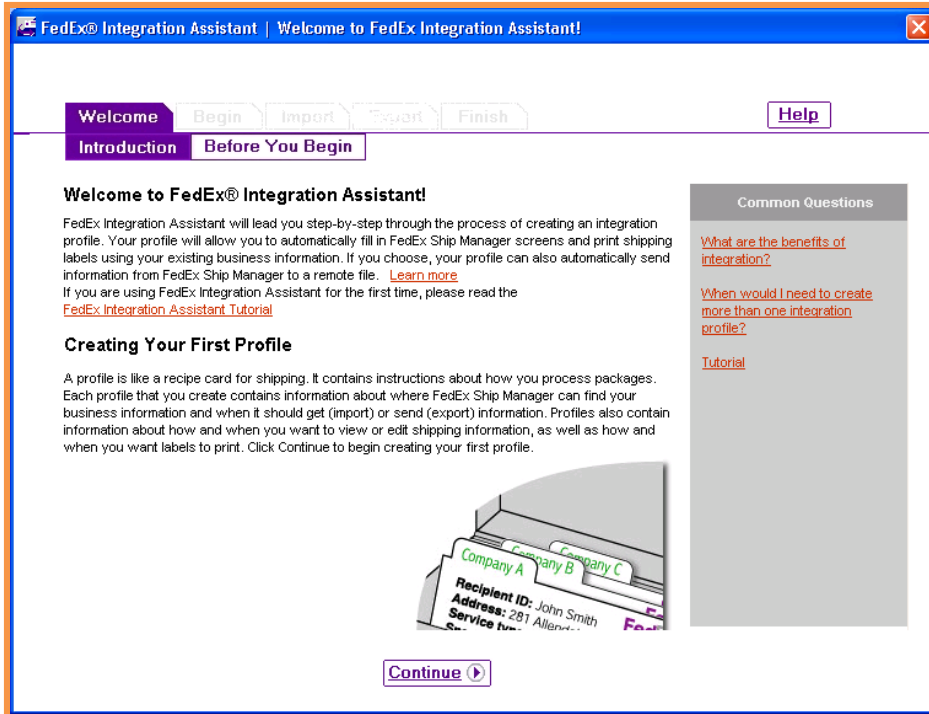
***Please be aware that FedEx Ship Manager® may be changed at any time. The instructions below were developed using Ship Manager® version 29.12.2715. It is always advisable to consult with a FedEx support representative when configuring a Ship Manager® interface.***

It is necessary to create import and export maps, so that the Ship Manager® system can relate the data fields in the Business One system to its own data fields.

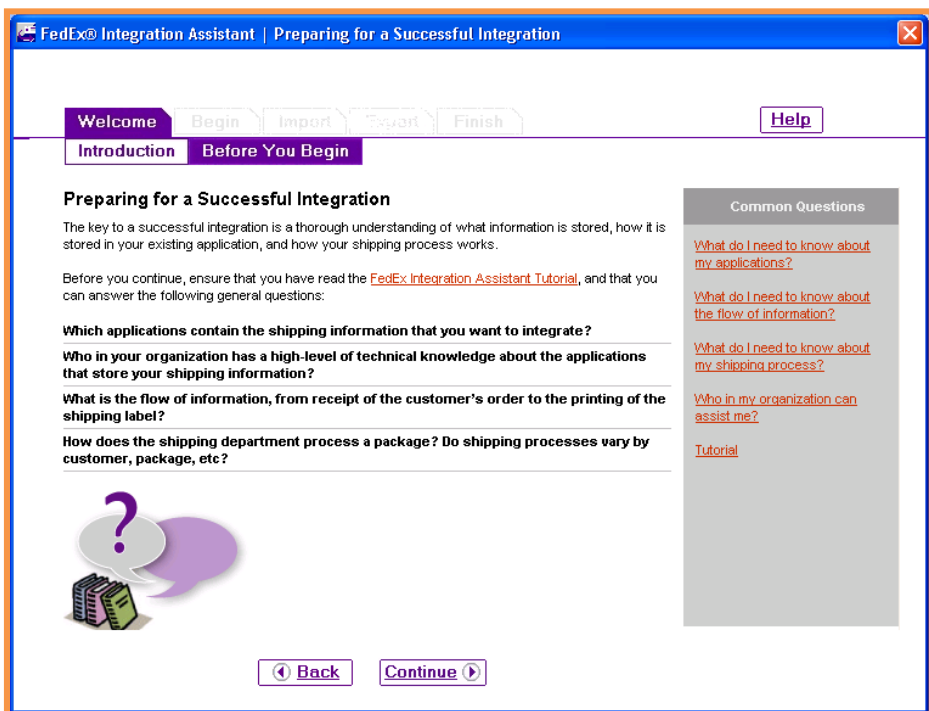
### Create Import and Export Maps

Open the Ship Manager® program and use the menu bar to select Integration > FedEx Integration Assistant.



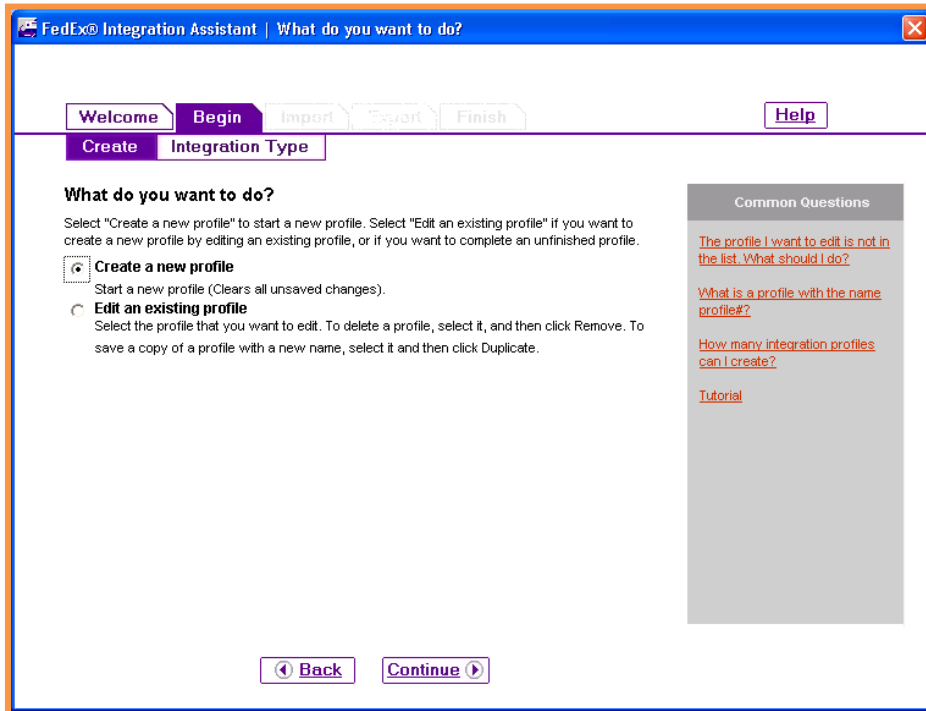


Read the introduction, then click on “Continue”.



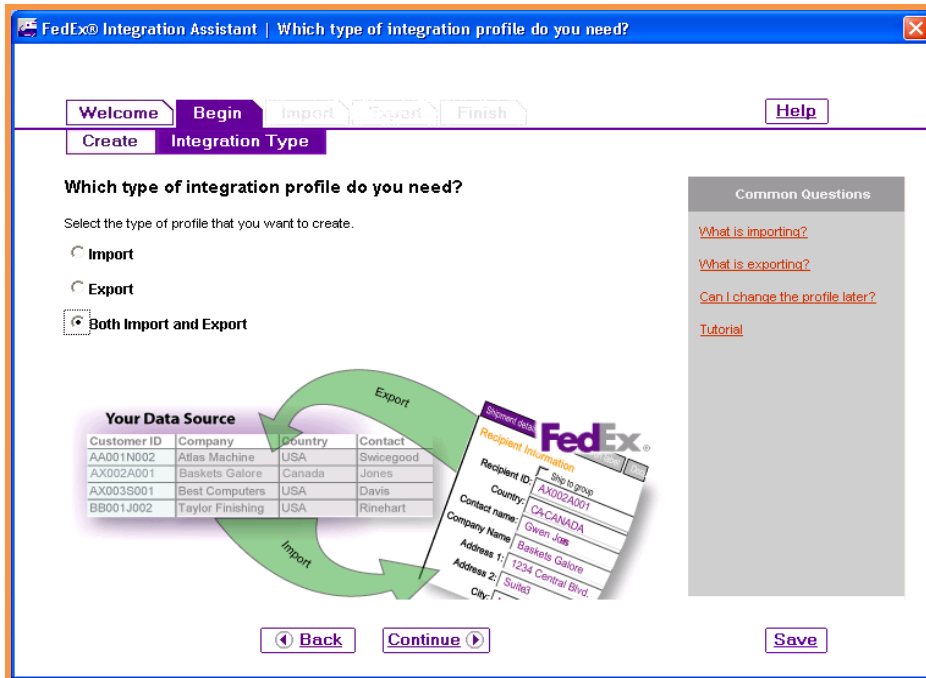
Review the messages on this screen, then click on “Continue”.

Begin > Create



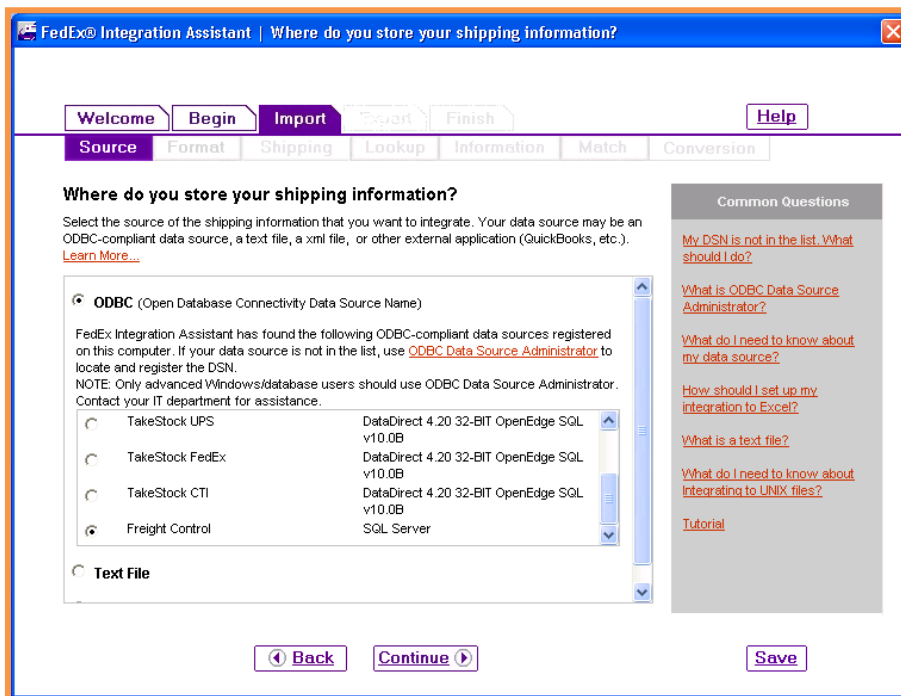
Select “Create a new profile”. Click on “Continue”.

Begin > Integration Type

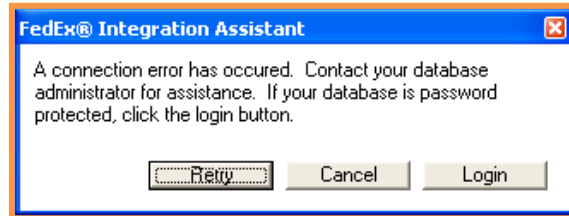


Select “Both Import and Export”. Click on “Continue”.

Import > Source



Select “ODBC” as the source of the shipping information. Then select the data source that was created in the previous section. Click on “Continue”.



To enter your password, click on “Login”. You will be prompted for the SQL login name (usually “sa”) and password.

## Import > Shipping

FedEx® Integration Assistant | How will you create shipping labels for your packages?
✕

Welcome
Begin
Import
Export
Finish

Help

Source
Format
Shipping
Lookup
Information
Match
Conversion

**How will you create shipping labels for your packages?**

Answer each question that appears below. FedEx Integration Assistant will select the best shipping method based on your answers. If your answers vary by situation, answer the questions appropriate for the first situation, complete the profile, and then run FedEx Integration Assistant again to create a profile for each additional situation.

Do you print labels one at a time?  Yes  No

Do you use a unique name or code to look up each package?  Yes  No

Do you need to edit shipping information before printing the label?  Yes  No

◀ Back
Continue ▶
Save

Common Questions

[What do I need to know about package processing?](#)

[I process Multiple Piece Shipments. Can I choose the Single-Edit shipping method?](#)

[What does it mean to "look up" a package?](#)

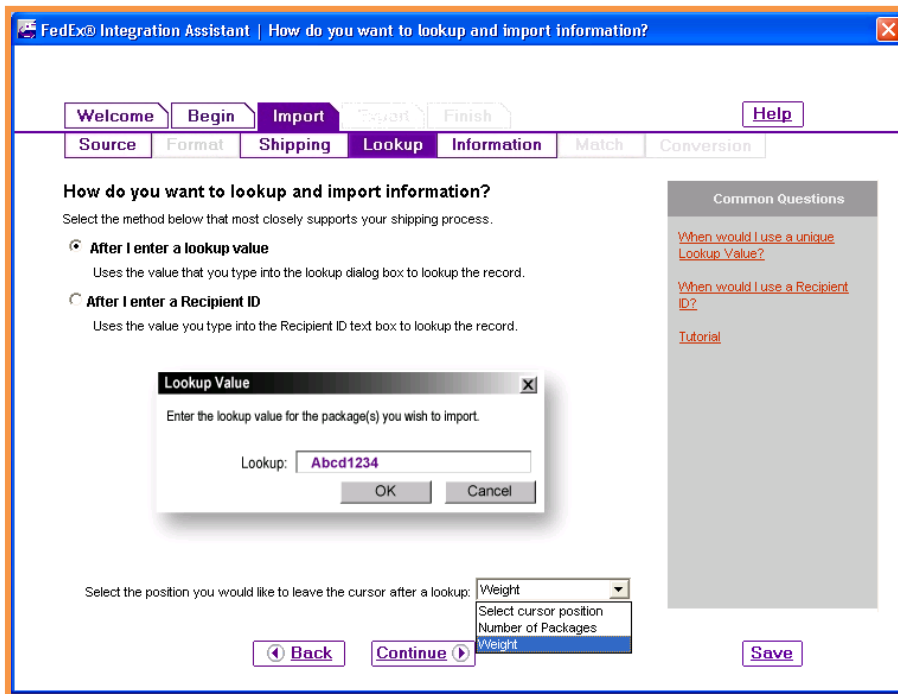
[What are the differences between each shipping method?](#)

[Tutorial](#)

Click on “Yes” for each of the questions, or click on “Single Edit” in the section below. Then click on “Continue”.

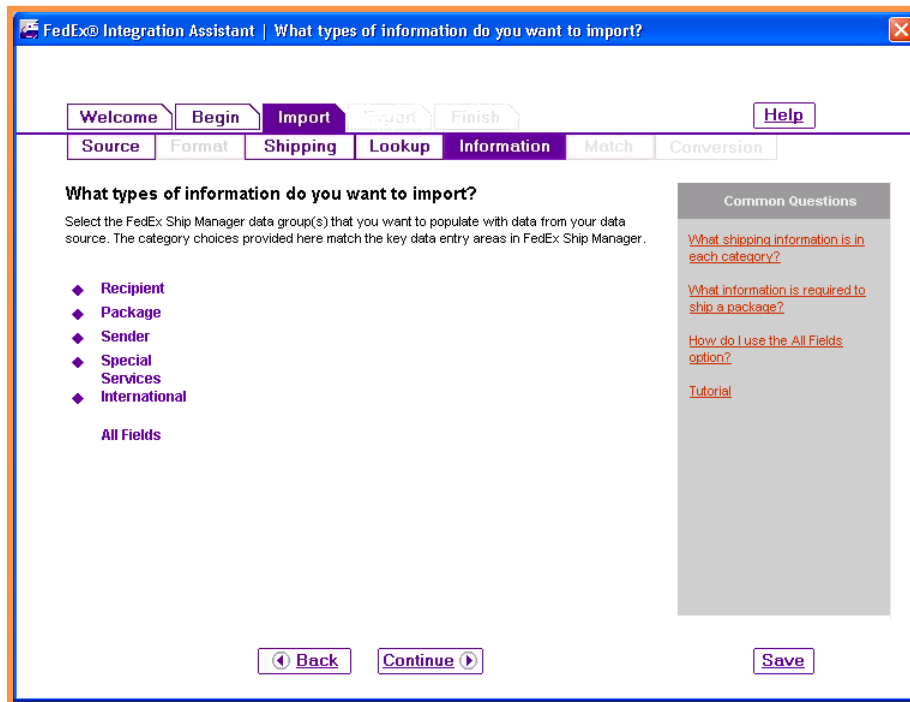


## Import > Lookup



Select “After I enter a lookup value”. Then select the cursor position for after the shipment ID has been entered (Invoice Number is the suggested choice). Then click on “Continue”.

## Import > Information



On this screen, you must select each section in turn, and check the fields that contain information that will be imported from the **Achieve Freight Control** into FedEx Ship Manager®. Check the following fields:

### **Recipient:**

- Address1
- Address2
- City
- Company
- Contact Name
- Country
- Phone
- Postal Code
- State/Province
- Account Number

**Package:**

Height  
Length  
Width  
Code  
Notes  
Bill Transportation To  
Customer Reference  
Declared Value  
Invoice Number  
PO Number  
Package Type  
Residential Delivery Flag  
Service Type  
Weight

**Sender:**

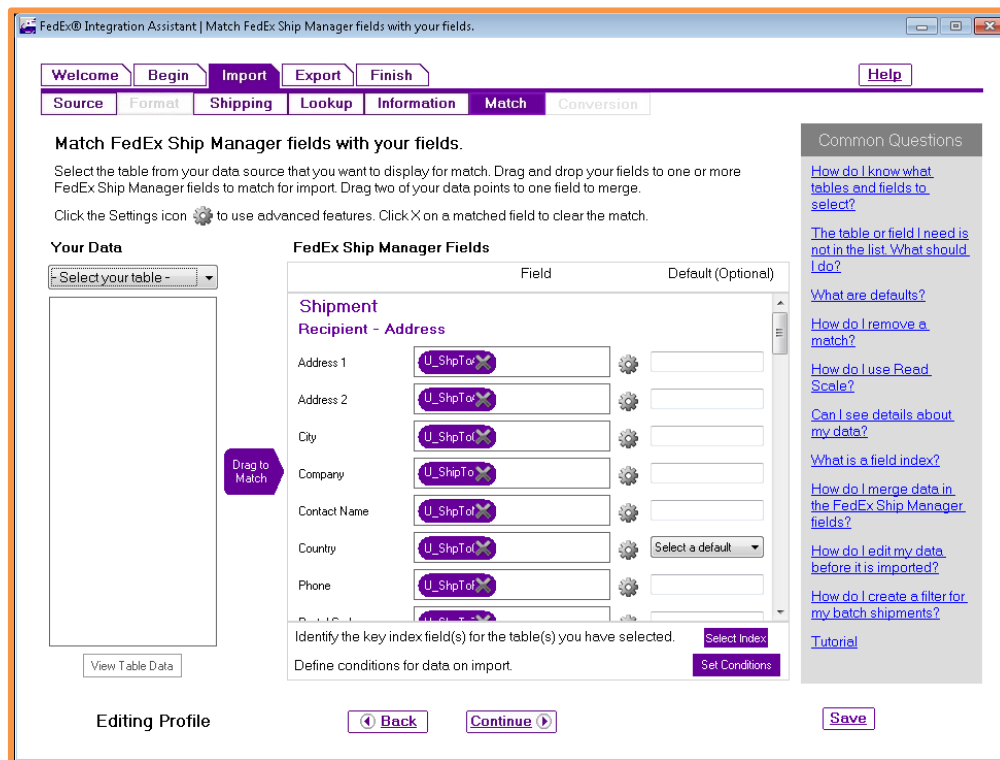
Address1  
Address2  
City  
Company  
Contact Name  
Phone  
Postal Code  
State/Province  
Account Number

**Special Services:**

Collect On Delivery-Amount  
Collect On Delivery-COD Flag  
Collect On Delivery-Collection Type  
Saturday Service-Delivery Flag  
Ship Alert-Recipient Email  
Ship Alert-Recipient Exception Notification  
Signature-Options

Click on “Continue” when all of the fields have been checked.

## Import > Match

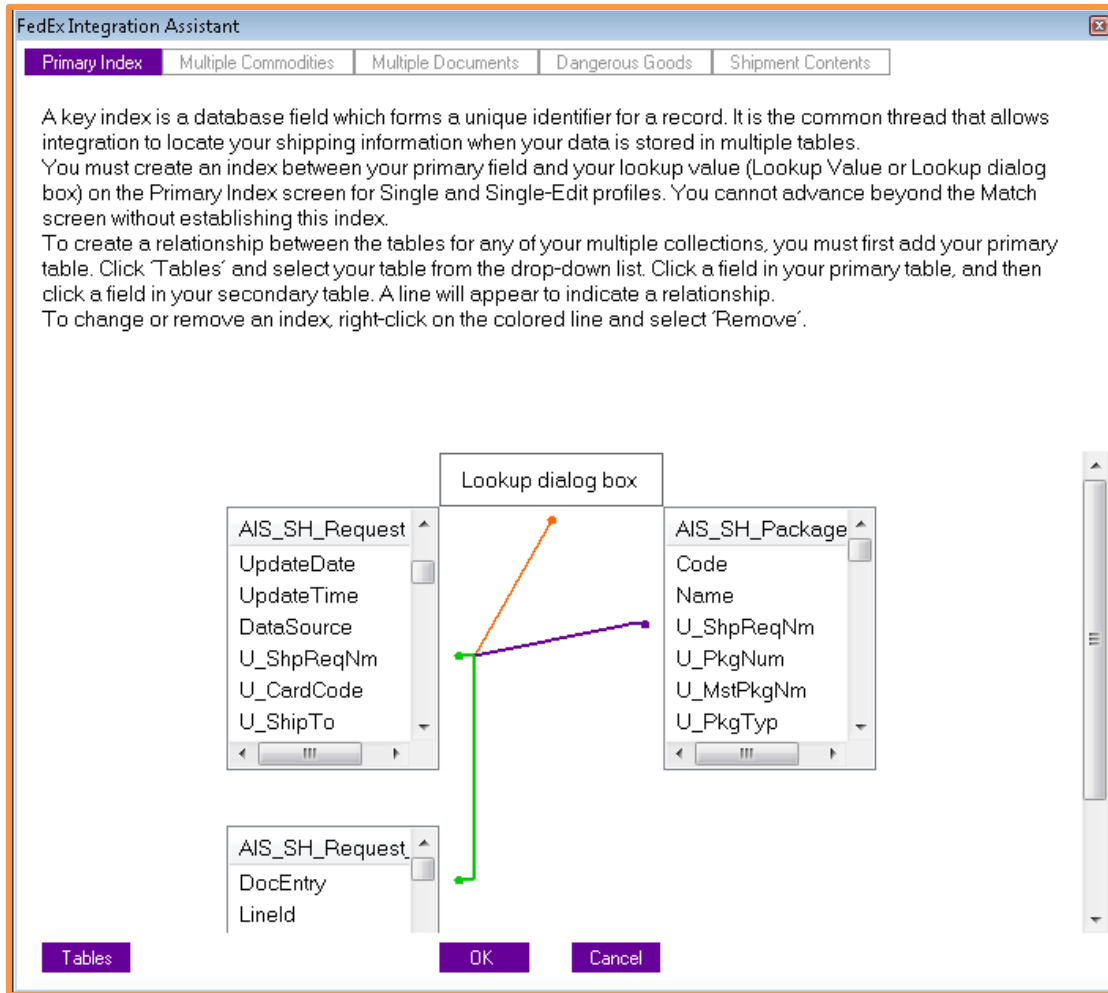


The screen will then list all of the FedEx fields that have been checked. Using the charts found in the Appendix of this manual, match the FedEx fields with the ODBC table and field names. In some cases you may wish to enter a default value as well.

You may want to use the View Table Data button on the bottom left to see a sample of the actual data with the field names. This may help you to determine how the fields should be mapped.

DocEntry	DocNum	Period	Instance	Series	Handwritten	Canceled	Object
539	539	21	0	62	N	N	AIS_SH_OSHR_UDC
540	540	21	0	62	N	N	AIS_SH_OSHR_UDC
519	519	21	0	62	N	N	AIS_SH_OSHR_UDC
527	527	21	0	62	N	N	AIS_SH_OSHR_UDC
528	528	21	0	62	N	N	AIS_SH_OSHR_UDC
601	601	23	0	62	N	N	AIS_SH_OSHR_UDC

When all of the fields have been mapped, use the “Select Index” button to indicate the key index field as well as the table/field relationships for the import.



Click on “OK” to return to the previous screen. Then click on “Continue”.

## Import > Conversion

Some fields contain codes which are not the same in Ship Manager as they are in Business One. It is necessary to map the individual codes so that Ship Manager imports the correct content in each field. Use this conversion screen to do this.

***The following connections are some of the ones that may need to be edited:***

### ***Collect on Delivery COD Flag***

FSM value – No; your value – N

FSM value- Yes; your value – Y

### ***Residential Delivery Flag***

FSM value – No; your value – Comm

FSM value – Yes; your value – Res

### Bill Transportation To

FSM value – Bill Recipient; your value – 2

FSM value – Bill Sender; your value – 1

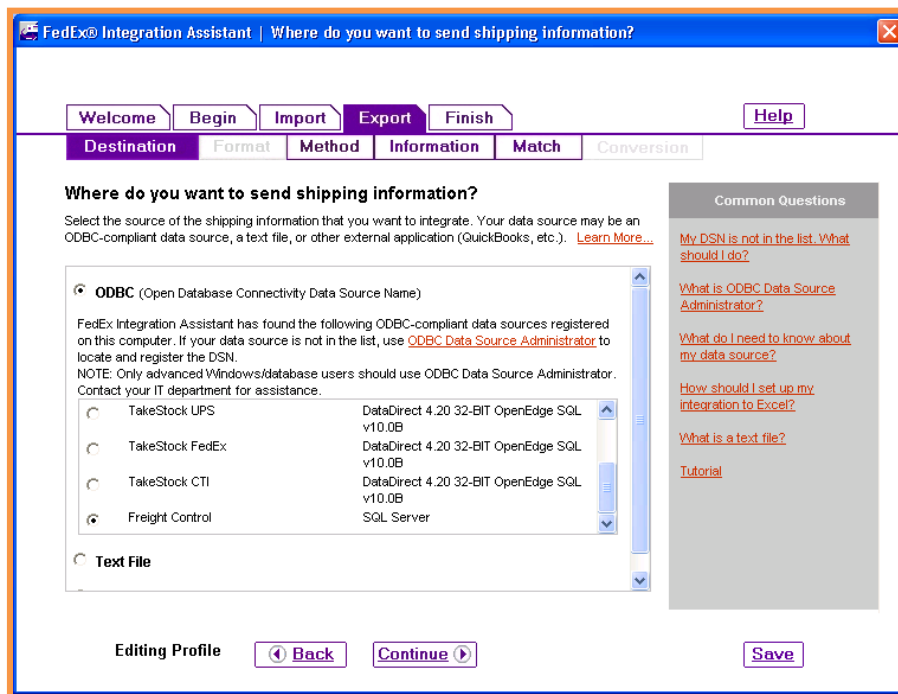
FSM value – Bill Third Party; your value – 5

You may also need to convert Service Type if you did not use the same naming convention as FedEx when creating your Carrier Settings in Freight Control.

You may also choose to Edit other mappings the make sure your field values match FedEx's, such as Units of Measure, Package Types, etc.

When all of the conversions are set hit Continue.

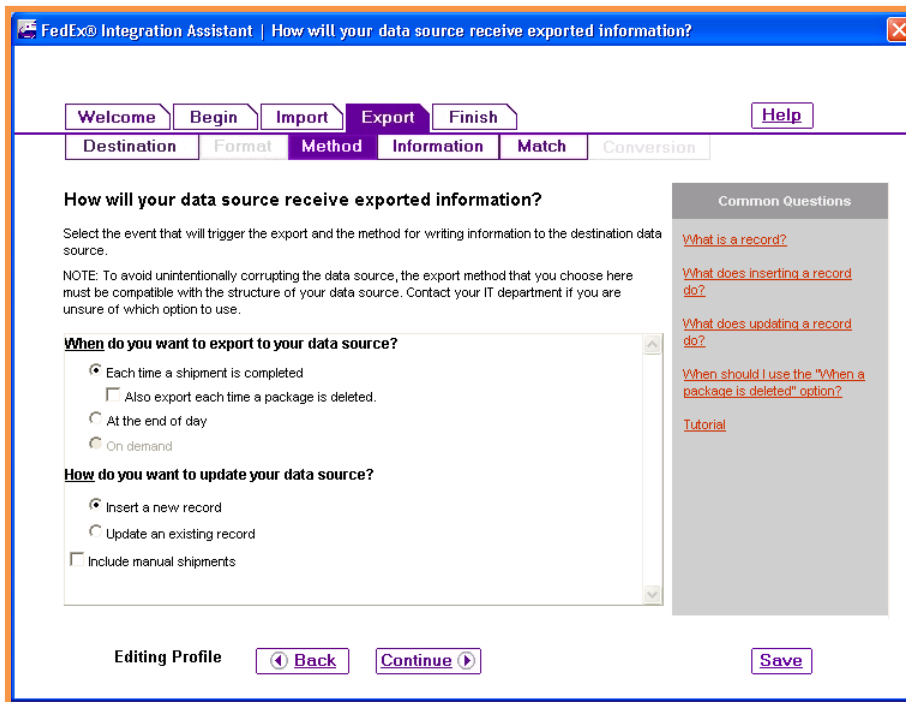
### Export > Destination



Select “ODBC” as the destination of the shipping information. Then select the data source that was created in the previous section. Click on “Continue”.



## Export > Method



FedEx® Integration Assistant | How will your data source receive exported information?

Welcome Begin Import **Export** Finish Help

Destination Format **Method** Information Match Conversion

**How will your data source receive exported information?**

Select the event that will trigger the export and the method for writing information to the destination data source.

NOTE: To avoid unintentionally corrupting the data source, the export method that you choose here must be compatible with the structure of your data source. Contact your IT department if you are unsure of which option to use.

**When do you want to export to your data source?**

- Each time a shipment is completed
- Also export each time a package is deleted.
- At the end of day
- On demand

**How do you want to update your data source?**

- Insert a new record
- Update an existing record
- Include manual shipments

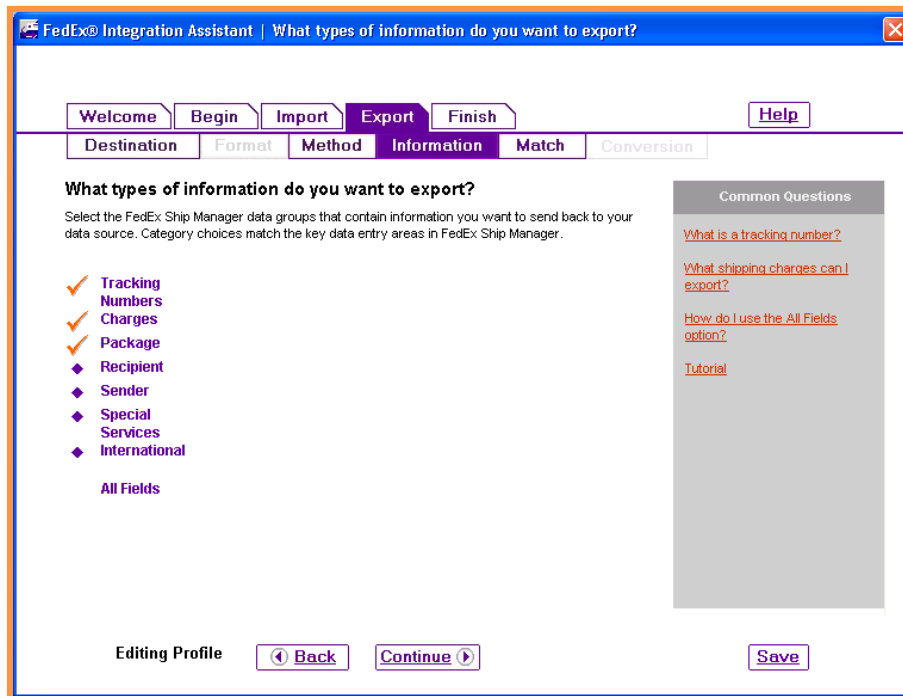
**Common Questions**

- [What is a record?](#)
- [What does inserting a record do?](#)
- [What does updating a record do?](#)
- [When should I use the "When a package is deleted" option?](#)
- [Tutorial](#)

Editing Profile

Select “Each time a shipment is completed” and “Insert a new record”. Then click on “Continue”.

## Export > Information



On this screen, you must select each section in turn, and check the fields that contain information that will be exported from FedEx Ship Manager® into **Achieve Freight Control**. Check the following fields:

### Tracking Numbers:

- Master Tracking Number
- Tracking Number

### Charges:

- Total Customer Charge

### Package:

- Notes
- Customer Reference
- Weight

Click on “Continue” when all of the fields have been checked.

## Export > Match

The screen will then list all of the FedEx fields that have been checked. Using the charts found in the Appendix of this manual, match the FedEx fields with the ODBC table and field names.

You may want to use the View Table Data button on the bottom left to see a sample of the actual data with the field names. This may help you to determine how the fields should be mapped.

Code	U_ShpReqNm	U_Status	U_PkgNum	U_Cost	U_TrackNbr	U_ScaleWt
1061	411	N	1	54.47	1Z305W750146775316	19.0
1062	411	N	2	54.31	1Z305W750148280721	18.0
1063	412	N	1	13.69	1Z305W750348104935	30.0
1064	412	N	2	16.56	1Z305W750347231942	45.0
2061	413	N	1	94.69	1Z305W750146765756	44.0
2062	413	N	2	88.88	1Z305W750148530362	41.0
2063	556	N	1	6.92	1Z305W750346553123	0.3
2065	600	N	1	16.78	1Z305W750348518355	45.3
2066	600	N	2	16.78	1Z305W750347450965	45.3
2067	600	N	3	16.78	1Z305W750348998373	45.3

After you are done click on “Continue”.

## Finish > Summary

**FedEx® Integration Assistant | Here is a summary of your integration profile.**

Welcome Begin Import Export **Finish** Help

Summary Instructions

**Here is a summary of your integration profile.**

Review the following profile summary. To make changes to your profile, first save the profile, and then click Back or select the Edit link to return to the tab that contains the information you would like to edit.

Package - Return Label Type

**Export Summary**

**Data Source:** [Edit](#)  
Name: Freight Control

**Destination Activities:** [Edit](#)  
When to Export: After Shipment  
How to Export: Insert

**Field Matches:** [Edit](#)

**Shipment Data**

Table: AIS\_SH\_OUPS\_SR  
U\_Cost <<< Charges - List Rates Total Customer Charge  
U\_ScaleWt <<< Package - Weight  
U\_ShpReqNm <<< Package - Shipment ID  
U\_TrackNbr <<< Tracking Numbers - Master Tracking Number

Table: AIS\_SH\_OUPS\_PKG  
U\_TrackNbr <<< Tracking Numbers - Tracking Number

[Printable Version](#)

**Common Questions**

[If I go back to a previous tab, can I return to the Summary?](#)

[After I close FedEx Integration Assistant, will I be able to make changes to my profile?](#)

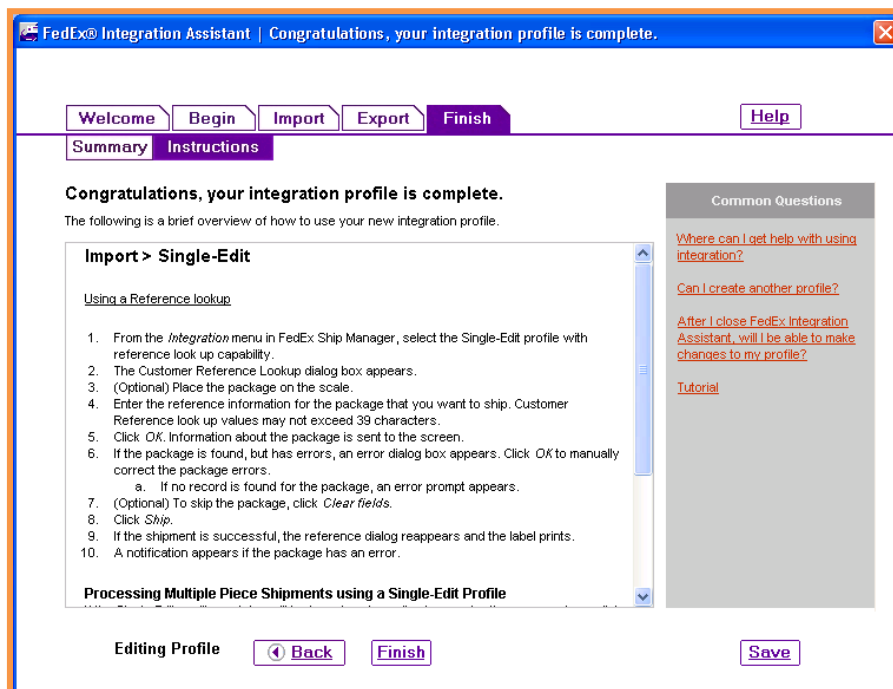
[Tutorial](#)

Editing Profile [Back](#) [Continue](#) [Save](#)

This screen provides a listing of all of the selections that have been made while creating the import/export profile. You may scroll to the bottom of the list to use the “Printable Version” button. You may also click on “Edit” next to any section you wish to examine in more detail or change.

Click on “Continue”.

## Finish > Instructions

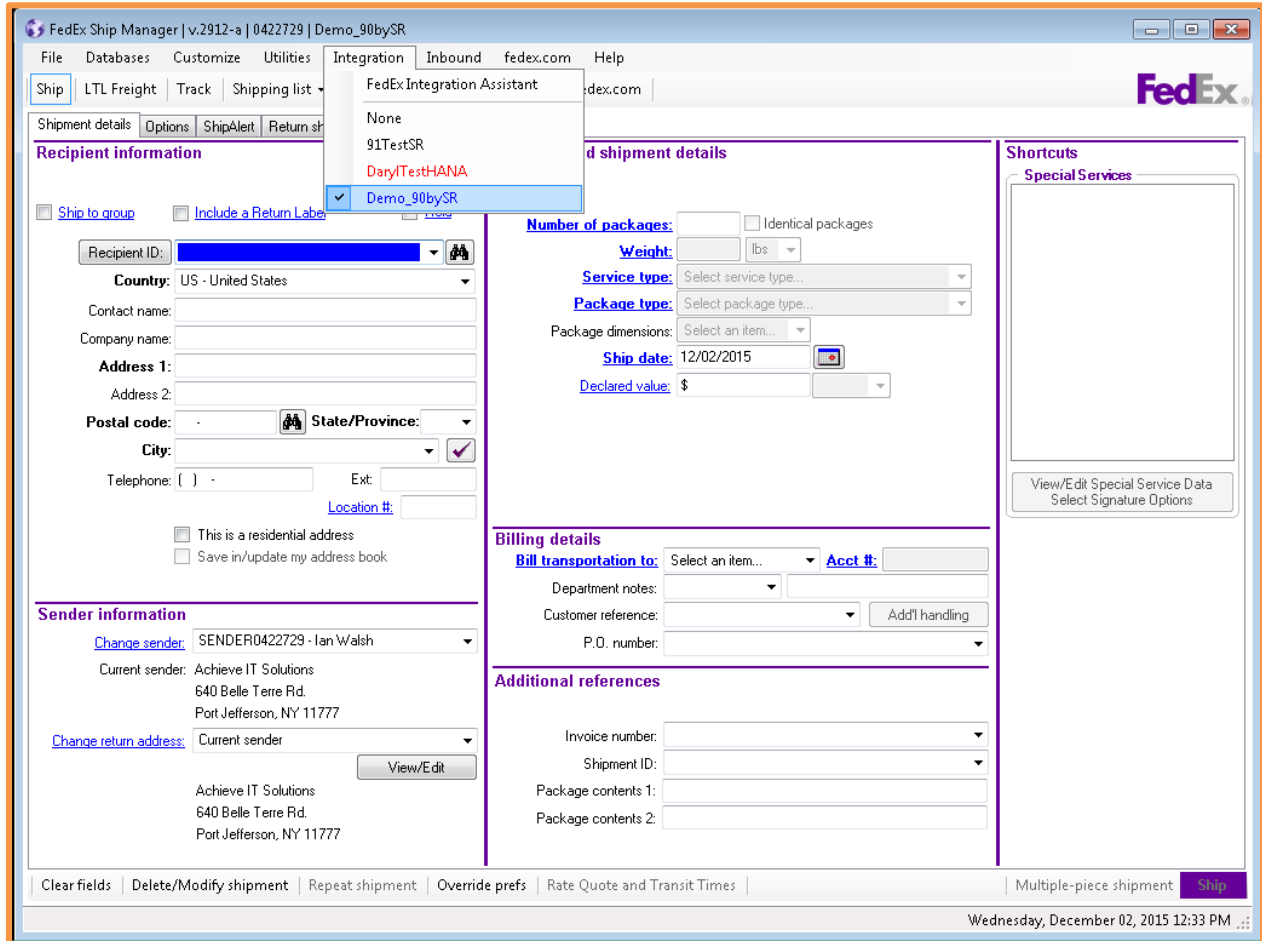


The screen displays brief a list of instructions for using the profile when entering FedEx shipments in Ship Manager®. You may scroll to the bottom of the list to use the “Printable Version” button. Then click “Finish”. You will be prompted to enter a name for your profile. When it is saved, the display returns to the main Ship Manager® input screen.

**Note:** You may return to the Integration Assistant at any time to make changes to your profile or to create a new one. You may also remove or duplicate profiles.

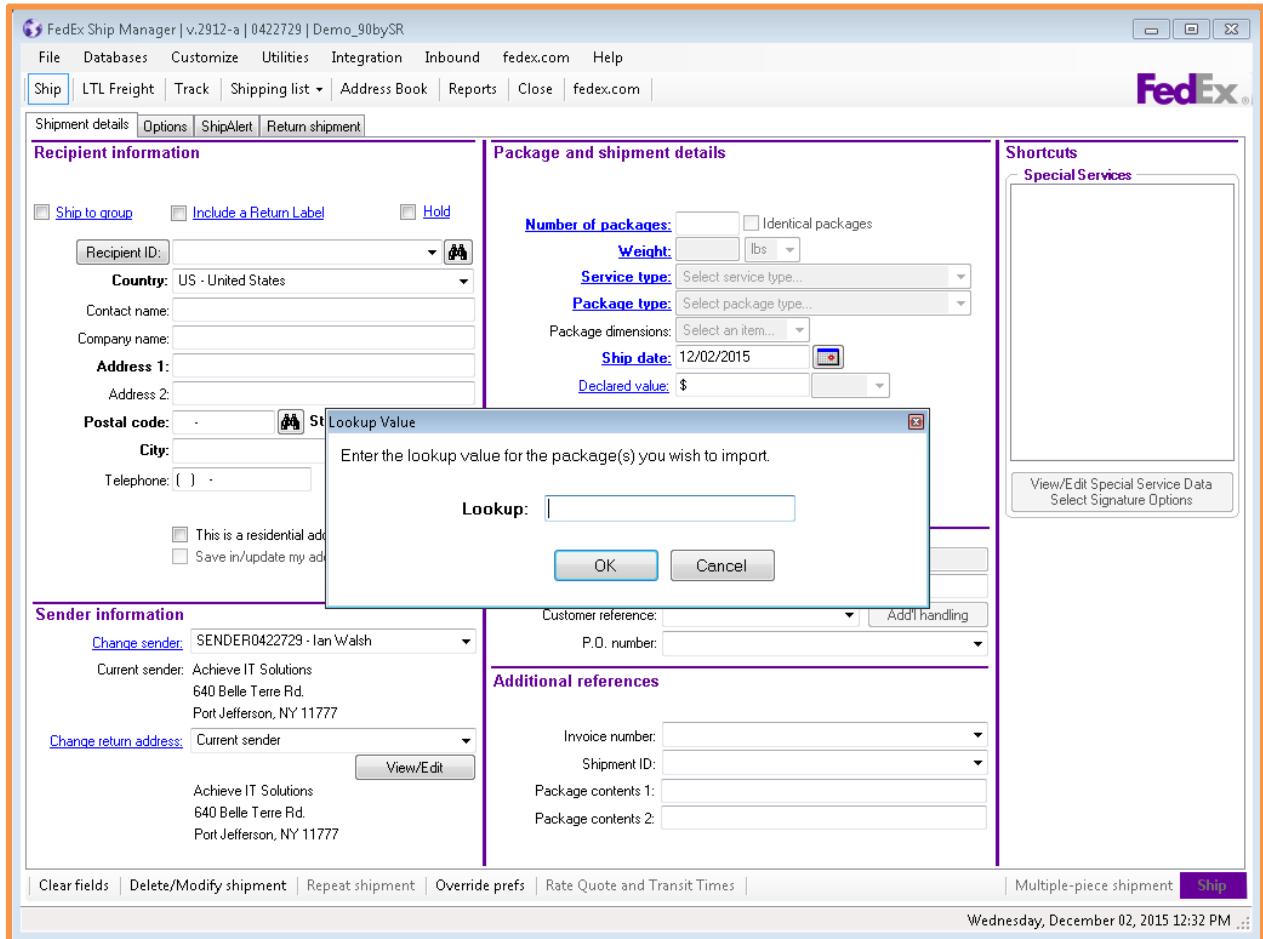
## Using the Profile in Ship Manager®

Once the profile has been created, you can use it by means of the Integration menu. Select the desired profile from the list.



Once the profile is selected, there will be a checkmark next to it when the menu is opened. This setting should remain after the user exits from Ship Manager® and logs back in at a later time. However, it is recommended to check the setting each day before beginning to process shipments.

When the profile is activated, the Lookup Value window will appear. This enables users to enter the Shipping Request number so that the Ship Manager® program will automatically import data from the order.



**Note:** The Lookup Value window will remain on the screen for the rest of the session, unless the user closes it. If it is closed, it may be opened again from the drop-down menu. If the window is open at the time the user exits from Ship Manager®, it should appear automatically the next time the user opens the Ship Manager® program.

## Appendix I: Freight Control Mappings for UPS WorldShip®

The following tables may be used as a guide to creating the WorldShip® import and export maps. However, UPS may change its field names or functionality at any time. It is always advisable to enlist the assistance of a UPS support representative when creating the mapping files.

**Note:** That it is possible to map a field in either system to multiple fields in the other system.

### Import Mapping

Freight Control Table	Field	UPS Worldship Table	Field
AIS_SH_Package	U_CODAmt	Package	COD Amount
AIS_SH_Package	U_CODFrt	Package	Add Shipping Charges To COD Indicator
AIS_SH_Package	U_InsVal	Package	Declared Value Amount
AIS_SH_Package	U_PkgNum	Package	Reference 5
AIS_SH_Package	U_PkgTyp	Package	Package Type
AIS_SH_Request	U_AISDeclared	Package	Declared Value Option
AIS_SH_Request	U_BaseDocNum	Package	Reference 1
AIS_SH_Request	U_CODSecur	Package	Cashier's Check/Money Order Only Indicator
AIS_SH_Request	U_CODShip	Package	COD Option
AIS_SH_Request	U_CustPO	Package	Reference 2
AIS_SH_Request	U_ShpReqNm	Package	Reference 3
AIS_SH_Request	U_ShpFrAd1	Ship From	Address 1
AIS_SH_Request	U_ShpFrAd2	Ship From	Address 2
AIS_SH_Request	U_ShpFrAd3	Ship From	Address 3
AIS_SH_Request	U_ShpFrCn	Ship From	Country/Territory
AIS_SH_Request	U_ShpFrCnt	Ship From	Attention
AIS_SH_Request	U_ShpFrCt	Ship From	City or Town
AIS_SH_Request	U_ShpFrEm	Ship From	Email Address
AIS_SH_Request	U_ShpFrNm	Ship From	Company or Name
AIS_SH_Request	U_ShpFrPh	Ship From	Telephone
AIS_SH_Request	U_ShpFrSt	Ship From	State/Province/County
AIS_SH_Request	U_ShpFrZp	Ship From	Postal Code



Freight Control Table	Field	UPS Worldship Table	Field
AIS_SH_Request	U_AcctNbr	Ship To	Receiver UPS Account Number
AIS_SH_Request	U_AISResComm	Ship To	Residential Indicator
AIS_SH_Request	U_ShipToNm	Ship To	Company or Name
AIS_SH_Request	U_ShpReqNm	Ship To	Tax ID Number
AIS_SH_Request	U_ShpToAd1	Ship To	Address 1
AIS_SH_Request	U_ShpToAd2	Ship To	Address 2
AIS_SH_Request	U_ShpToAd3	Ship To	Address 3
AIS_SH_Request	U_ShpToCn	Ship To	Country/Territory
AIS_SH_Request	U_ShpToCt	Ship To	City or Town
AIS_SH_Request	U_ShpToEm	Ship To	Email Address
AIS_SH_Request	U_ShpToNm	Ship To	Attention
AIS_SH_Request	U_ShpToPh	Ship To	Telephone
AIS_SH_Request	U_ShpToSt	Ship To	State/Province/County
AIS_SH_Request	U_ShpToZp	Ship To	Postal Code
AIS_SH_Request	U_AdultSig	Shipment Information	Delivery Confirmation Adult Signature Required
AIS_SH_Request	U_BillDuty	Shipment Information	Bill Duty and Tax To
AIS_SH_Request	U_CallTag	Shipment Information	Return Service Option
AIS_SH_Request	U_CODAmt	Shipment Information	COD Amount
AIS_SH_Request	U_CODShip	Shipment Information	COD Option
AIS_SH_Request	U_EmlNot	Shipment Information	QVN Option
AIS_SH_Request	U_FrtChgTp	Shipment Information	Bill Transportation To
AIS_SH_Request	U_NbrPkgs	Shipment Information	Number of Packages
AIS_SH_Request	U_SatDel	Shipment Information	Saturday Delivery Option
AIS_SH_Request	U_ShpToEm	Shipment Information	Recipient Email Address
AIS_SH_Request	U_SigReqd	Shipment Information	Delivery Confirmation Option
AIS_SH_Request	U_SvcLvl	Shipment Information	Service Type
AIS_SH_Request	U_AcctNbr	Third Party	UPS Account Number
AIS_SH_Request	U_BilToAd1	Third Party	Address 1
AIS_SH_Request	U_BilToAd2	Third Party	Address 2
AIS_SH_Request	U_BilToCn	Third Party	Country/Territory
AIS_SH_Request	U_BilToCnt	Third Party	Attention
AIS_SH_Request	U_BilToCt	Third Party	City or Town
AIS_SH_Request	U_BilToNm	Third Party	Company or Name
AIS_SH_Request	U_BilToPh	Third Party	Telephone
AIS_SH_Request	U_BilToSt	Third Party	State/Province/County
AIS_SH_Request	U_BilToZp	Third Party	Postal Code

## Export Mapping

**Note:** The positions of the WorldShip® tables and Freight Control tables are reversed from the import mapping. The mappings in yellow are optional and used if you will be editing shipment information in Worldship that you want exported to SAP for document updates.

**Note:** The ones in Yellow are only necessary if you want any changes you make to a shipment inside of UPS Worldship to be reflected in SAP.

UPS WorldShip Table	Field		Freight Control Table	Field
Package	COD Amount		AIS_SH_OUPS_PKG	U_CODAmt
Package	Package Published Charge		AIS_SH_OUPS_PKG	U_Cost
Package	Reference 5		AIS_SH_OUPS_PKG	U_PkgNum
Package	Tracking Number		AIS_SH_OUPS_PKG	U_TrackNbr
Package	Void Indicator		AIS_SH_OUPS_PKG	U_Status
Package	Weight		AIS_SH_OUPS_PKG	U_ScaleWt
Ship To	Tax ID Number		AIS_SH_OUPS_PKG	U_ShpReqNm
Ship To	Tax ID Number		AIS_SH_OUPS_SR	U_ShpReqNm
Ship To	Address 1		AIS_SH_OUPS_SRH	U_ShpToAd1
Ship To	Address 2		AIS_SH_OUPS_SRH	U_ShpToAd2
Ship To	Address 3		AIS_SH_OUPS_SRH	U_ShpToAd3
Ship To	Attention		AIS_SH_OUPS_SRH	U_ShpToNm
Ship To	City or Town		AIS_SH_OUPS_SRH	U_ShpToCt
Ship To	Company or Name		AIS_SH_OUPS_SRH	U_ShipToNm
Ship To	Country/Territory		AIS_SH_OUPS_SRH	U_ShpToCn
Ship To	Email Address		AIS_SH_OUPS_SRH	U_ShpToEm
Ship To	Postal Code		AIS_SH_OUPS_SRH	U_ShpToZp
Ship To	State/Province/County		AIS_SH_OUPS_SRH	U_ShpToSt
Ship To	Tax ID Number		AIS_SH_OUPS_SRH	U_ShpReqNm
Ship To	Telephone		AIS_SH_OUPS_SRH	U_ShpToPh
Shipment Information	Actual Weight		AIS_SH_OUPS_SR	U_ScaleWt
Shipment Information	COD Amount		AIS_SH_OUPS_SR	U_CODAmt
Shipment Information	Lead Tracking Number		AIS_SH_OUPS_SR	U_TrackNbr
Shipment Information	Total Shipment Published Charge		AIS_SH_OUPS_SR	U_Cost
Shipment Information	Void Indicator		AIS_SH_OUPS_SR	U_Status
Shipment Information	Bill Duty and Tax To		AIS_SH_OUPS_SRH	U_BillDuty
Shipment Information	Bill Transportation To		AIS_SH_OUPS_SRH	U_FrtChgTp
Shipment Information	Service Type		AIS_SH_OUPS_SRH	U_SvcLvl

## Appendix II: Freight Control Mappings for FedEx Ship Manager®

The following listing may be used as a guide to creating the Ship Manager® import and export maps. However, FedEx may change its field names or functionality at any time. It is always advisable to enlist the assistance of a FedEx support representative when creating the mapping files.

### General

Profile type: Import and Export

Profile name: FreightControl

Modified: 7/23/2014 1:18:24 PM

### Import Summary

#### Data Source:

Name: Prod\_Live

#### Lookup:

Method: Lookup dialog box

#### Shipping Activities:

Shipping method: Single Edit

Review/edit information before shipping: Yes

#### Field Matches:

### Shipment Data

#### Table: AIS\_SH\_Request

U\_AISResComm >>> Package - Residential Delivery Flag

U\_AcctNbr >>> Recipient - Account Number

U\_CODAmt >>> Special Services - Collect on Delivery Amount

U\_CODSecur >>> Special Services - Collect on Delivery Collection Type

U\_CODShip >>> Special Services - Collect on Delivery COD Flag

U\_EmlNot >>> Special Services - Ship Alert Recipient Shipment Notification

U\_FrtChgTp >>> Package - Bill Transportation To

U\_SatDel >>> Special Services - Saturday Services Delivery Flag

U\_ShipToNm >>> Recipient - Company

U\_ShpFrAd1 >>> Sender - Address 1  
U\_ShpFrAd2 >>> Sender - Address 2  
U\_ShpFrCnt >>> Sender - Contact Name  
U\_ShpFrCt >>> Sender - City  
U\_ShpFrNm >>> Sender - Company  
U\_ShpFrPh >>> Sender - Phone  
U\_ShpFrSt >>> Sender - State/Province  
U\_ShpFrZp >>> Sender - Postal Code  
U\_ShpReqNm >>> Package - Customer Reference  
U\_ShpToAd1 >>> Recipient - Address 1  
U\_ShpToAd2 >>> Recipient - Address 2  
U\_CustPO >>> Package - P.O. Number  
U\_ShpToCn >>> Recipient - Country  
U\_ShpToCt >>> Recipient - City  
U\_ShpToEm >>> Special Services - Ship Alert Recipient Email  
U\_ShpToNm >>> Recipient - Contact Name  
U\_ShpToPh >>> Recipient - Phone  
U\_ShpToSt >>> Recipient - State/Province  
U\_ShpToZp >>> Recipient - Postal Code  
U\_SigReqd >>> Special Services - Signature Options  
U\_SvcLvl >>> Package - Service Type

Table: AIS\_SH\_Package

U\_InsVal >>> Package - Declared Value  
U\_PkgNum >>> Package - Code  
U\_PkgNum >>> Package - Notes  
U\_PkgNum >>> Package - Invoice Number  
U\_Weight >>> Package - Weight

Default(s):

Residential Delivery Flag = False  
Recipient Shipment Notification = False  
Country = US  
Weight = \$READSCALE\$  
Package Type = 1

## Export Summary

Data Source:

Name: Prod\_Live

Destination Activities:

When to Export: After Shipment

How to Export: Insert

Field Matches:

Shipment Data

Table: AIS\_SH\_OUPS\_PKG

U\_Cost <<< Charges - Customer Rates Total Customer Charge

U\_MasterTrackNbr <<< Tracking Numbers - Master Tracking Number

U\_PkgNum <<< Package - Notes

U\_ScaleWt <<< Package - Weight

U\_ShpReqNm <<< Package - Customer Reference

U\_TrackNbr <<< Tracking Numbers - Tracking Number

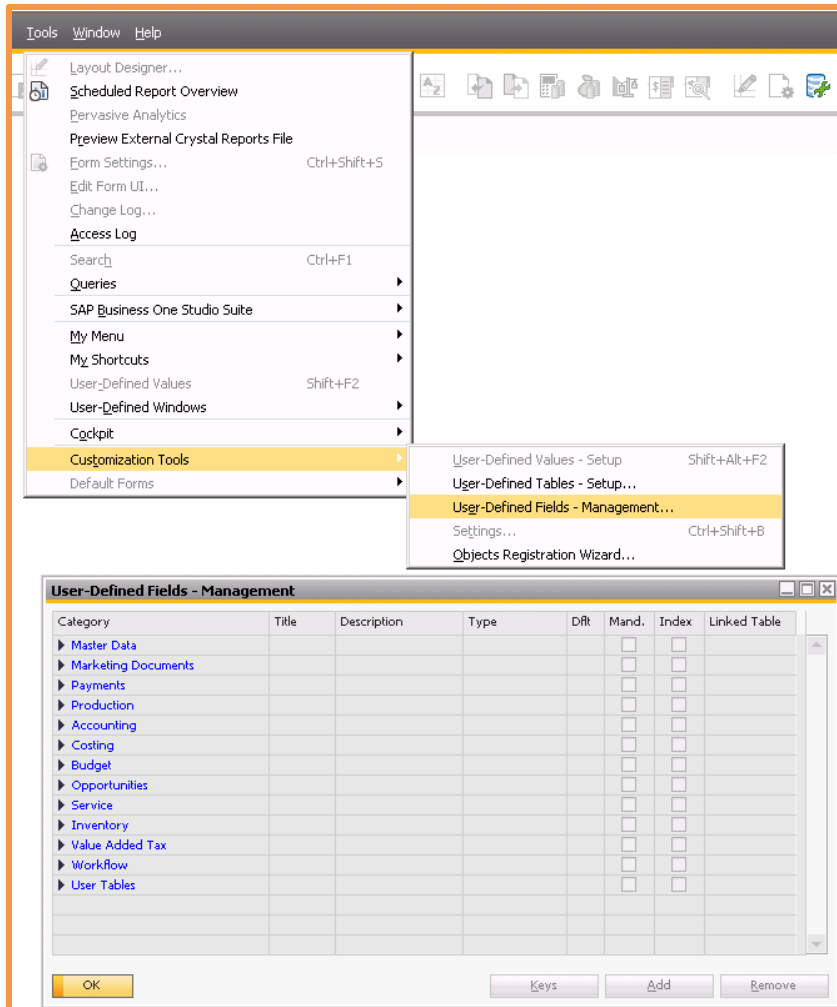
## Appendix III: International Shipping

For International Shipping there are a few more fields that must be mapped. **Achieve Freight Control** will add a couple of User Defined Fields to SAP Business One to accommodate this.

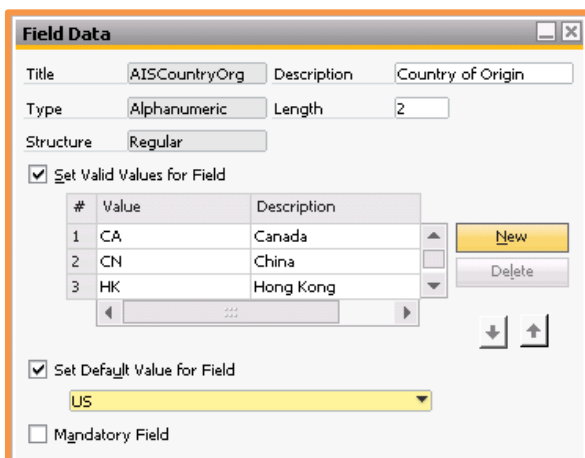
### Item Master

#### *Country of Origin*

A UDF will be added to the Item Master Data for Country of Origin. You will need to set Valid Values for this UDF using the standard SBO Country Codes (with US as the default). It is only necessary to setup those countries that you will be using so you don't have a huge list in the UDF drop down. To do this start by going to the User Defined Field Management screen.



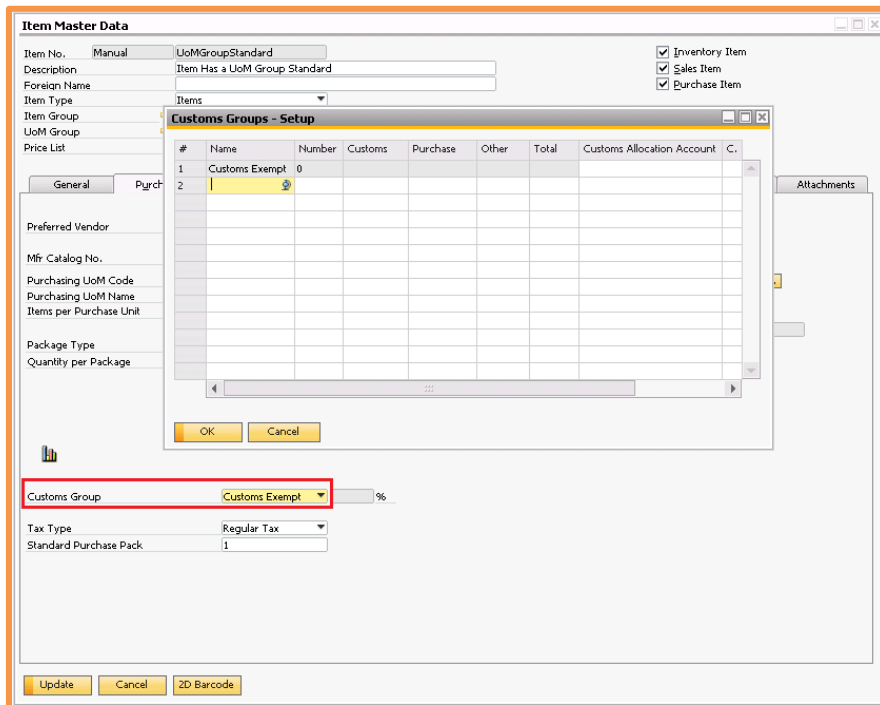
Once in there navigate to Master Data > Items > Items > AISCountryOrg, highlight it, and hit Update on the bottom to bring up the field data screen.



Once in this screen you can add the countries that you will be using for international shipping. If you need additional help with this please contact your SAP Support team.

### Tariff Number

For Tariff Numbers there is not a new UDF, just use the Standard SAP Business One Customs Group field.



### Marketing Documents

There will be 2 UDFs added to Marketing Documents Rows for Country of Origin and Tariff Number. These 2 fields will have formatted searches set in them to pull the Country of Origin and Tariff Number from the Item Master into the marketing documents automatically.

### Sales Order

Customer → c20000

Name Centerport Components

Contact Person → Def Contact ID

Customer Ref. No.

Local Currency

No. Primary 10479

Status Open

Posting Date 12/01/15

Delivery Date 12/01/15

Document Date 12/01/15

Contents
Logistics
Accounting
Document Delivery
Attachments
Instructions

#	Shipping Spec Code	Blind Ship-to Recipient	Country of Origin	Tarriff Number	Bin Update C...	Quantity Rele...	Adjustment T...	FA Text
1			US	112-12	lo			
2					No			

Sales Employee Ian

Owner

Remarks

Total Before Discount \$ 6.50

Discount %

Freight →

Rounding

Tax

Total \$ 6.50

Update

Cancel

Reservations

Ship

Rate Shop

Copy From

Copy To



## Carrier Software Additional Mappings

There will need to be some additional Import mappings setup for International Shipping in UPS Worldship and FedEx Ship Manager.

**Note:** *That even though we will be importing in the appropriate data, if you require an Invoice for International Shipping you will need to contact UPS or Fed Ex directly to help you with form design.*

### UPS

#### Import Mappings

Freight Control Table	Field	UPS Worldship Table	Field
AIS_SH_Request_Lines	U_AISTarriffNum	Goods	Inv/NAFTA/CN22 Tariff Code
AIS_SH_Request_Lines	U_AISCountryOrg	Goods	Inv/NAFTA/CO/CN22 Country/Territory Of Origin
AIS_SH_Request_Lines	ItemName	Goods	Description Of Good
AIS_SH_Request_Lines	U_QtyShpd	Goods	Invoice/CN22 Units
AIS_SH_Request_Lines	UnitPrice	Goods	Invoice/SED/CN22 Unit Price
AIS_SH_Request_Lines	UOMCode	Goods	Invoice/CN22 Unit Of Measure
AIS_SH_Request_Lines	ItemCode	Goods	Part Number

In addition to the above mappings you may need to choose a field from SAP to map to Shipment Information: Description of Goods if necessary.

Also make sure you add the following Foreign Key relationship:

AIS\_SH\_Request:U\_ShpReqNum to AIS\_SH\_Request\_Lines:DocEntry

**Note:** *You may need to set up additional map translations for these new mappings to match up data in case there are different definitions in SAP and UPS (e.g. Country of Origin or UOM).*

## Fed Ex Ship Manager

### Import Mappings

Table: AIS\_SH\_Request\_Lines

ItemCode >>> International – Commodity Part Number

ItemName >>> International - Commodity Description

UOMCode >>> International - Commodity Unit Of Measure

U\_AISCountryOrg >>> International - Commodity Country of Manufacture

U\_AISTarriffNum >>> International - Commodity Harmonized Code

U\_QtyShpd >>> International - Commodity Unit Quantity

UnitPrice >>> International - Commodity Unit Value

Also make sure you use the Select Index button on the Import/Match tab to link:

AIS\_SH\_Request:U\_ShpReqNum to AIS\_SH\_Request\_Lines:DocEntry

**Note:** You may need to set up additional map translations for these new mappings to match up data in case there are different definitions in SAP and FedEx (e.g. Country of Origin or UOM).