

# FreeFlow® Web Services Shipping Price Calculation Guide

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# Introduction

The *Shipping Price Calculation Guide* documents the means by which the *FreeFlow Web Services* solution calculates shipping prices. The *Shipping Price Calculation Guide* describes the three *Pricing Models* provided by the system and used for calculating the price and in addition, documents the Online Price Models provided by three carriers in the market (FedEx, UPS, and US Postal) and UPS and DHL rates tables.

# Shipping Methods

## Implemented Pricing Models

*FreeFlow Web Services* provides three pricing models by which to calculate a *Shipping Price*:

- **Fixed** model - uses a **Handling Fee** defined value as a shipping price. If no *Handling Fee* has been defined, the **Shipping Price** will be set to 0 (zero).
- **Excel** model - uses an *Excel* file to obtain a shipping price. *Web Services* currently has preset *Excel* data tables for the FedEx shipping prices (FedEx.xls).
- **Online** model - obtains an online shipping price by communicating with the carrier's database server.

**Fixed** and **Excel** models, in general, are available for any carrier appearing in the *Web Services* system. There is no limitation to defining an *Excel* file that conforms to the *Web Services* *Excel* internal structure.

## Pricing Models by Carrier

*Web Services* provides the following four carrier-pricing models:

- **UPS** - Fixed, Excel, Online. The [UPS Access Attributes](#) chapter describes how to obtain the *UPS Online Pricing Access Attributes*.
- **USPS** - Fixed, Excel, Online. *Web Services* has predefined Access Attributes in order to use United States Postal Service (USPS) Online Pricing.
- **FedEx** - Fixed, Excel, Online. Use FedEx excel tables (FedEx.xls) to calculate shipping prices for this carrier. The *FedEx Rate Tables* chapter describes how to manage FedEx excel tables. For an online model, the user must receive access information from FedEx.
- **Any other carrier** - pricing models are Fixed, Excel.
  - DHL example is included.

## UPS

### UPS Access Attributes

**UPS Online Tools** - a Web-based shipping application that can be customized to meet your company's business needs. Whether for creating greater efficiencies in the mailroom or for lowering overall costs due to better controls over shipping activities, the UPS OnLine® Tool is designed to streamline shipping without the addition of expensive hardware or software.

The UPS *Shipping* tool is available in the latest XML technology and provides access to all UPS services. The UPS *Shipping* tool is ideal to network the shipping activities occurring within different retail locations, dealers or branch offices. It is also a good solution for mailrooms in large corporations or campus environments (from UPS Web-site).

**Note:** In order to obtain UPS Online Pricing Secure Attributes, you must have a valid UPS account. To open a UPS account, carry out the steps for registering with UPS.

## Registering with UPS

To use the UPS Online Pricing Model, you must register with ups.com and request a XML access key (*Access Key*). Access to this service is free. This is required in order to send and receive information from the UPS rate database.

To register, go to the UPS registration page ([www.ups.com/myups/registration?loc=en\\_US](http://www.ups.com/myups/registration?loc=en_US)) and fill out the form. You must also request a XML access key and agree to the terms of the access license. A valid XML access key will then be provided via e-Mail.

After completing the UPS registration, you will receive the following two Online Pricing Secure Attributes: **Username** and **Password**.

## Receiving the Access Key

Once you have completed the registration, use your user name and password to login. Keep your user name and password handy as you will need it along with your XML access key to query the database.

After logging in, click on the *Get Access Key* option on the navigation menu on the left side of the screen. The Get Access Key window will appear asking you which type of key you are requesting. Choose *XML Access Key*.

In order to receive your XML access key, you will need to have the Developer's Key from the e-Mail you received after registering. Submit the form and examine your e-Mail for the *XML Access Key*. At the end of this step you will have the Online Pricing Secure Attribute: Access Key (*XML Access Key*) that you requested.

See the [FreeFlow Web Services Shipping Methods Setup](#) section to complete the configuration.

## USPS - United States Postal Service

### USPS Access Attributes

**USPS Web Tools** - Provide easy access to shipping information and services for your customers. Integrating these APIs into your web site, enables your customers to utilize the functions provided by the USPS without ever leaving your web site. USPS Web Tools is integrated into your *Web Services* system; the USPS Shipping API Server communicates over HTTP using XML (Extensible Markup Language).

### Registering with USPS

In order to communicate between *Web Services* and USPS.com, *Web Services* customers must have their own user ID and password.

The user ID and password that you have received is for you or your company to use in accordance with the Terms and Conditions of Use to which you agreed during the registration process. This user ID and password is not to be shared with others outside your organization, nor is it to be packaged, distributed, or sold to any other person or entity.

Your customers must go to the USPS Web Tools web site ([/www.uspswebtools.com/](http://www.uspswebtools.com/)) so that they can register, agree to the Terms and Conditions of Use agreement, and receive their own unique password and user ID.

When the company using the USPS Web Tool begins to use the tool it will be necessary that the information held at the ICCC (*USPS Internet Customer Care Center*) be updated to reflect the true name of the company responsible for use of the Web Tools. See the [FreeFlow Web Services Shipping Methods Setup](#) section to complete the configuration.

**Registration for USPS Web Tools**  
Please fill in the following information : (\*Required fields)

\* First Name  Middle Initial

\* Last Name

\* Company Name

\* Address 1

Address 2  (Apt, Floor, etc.)

\* City

\* State

Urbanization  (Puerto Rico Only)

\* ZIP Code

\* Country

\* Email Address

\* Business Phone

What is the Web site address (URL) of the site that will be hosting the USPS Web Tools?

How will you be using the USPS Web Tools?

USPS WEB TOOLS TERMS AND CONDITIONS  
[Please read the Terms and Conditions of Use](#)

## FedEx Online

**FedEx Online** allows *FreeFlow Web Services* users to ship Jobs to any destination throughout the world, after receiving and agreeing to the **FedEx Online** shipping price.

**Note:** In order to work with **FedEx Online**, you must first register with **FedEx** and create a valid **FedEx Online** account.

## Registering with FedEx

To open a **FedEx Online** account, carry out the following steps:

- 1 Go to <https://www.fedex.com/us/OADR/index.html>; the **FedEx Online Account Registration** window appears.
- 2 Click on *Sign up for an account without a discount*.
- 3 Click on *Sign Up Now!* in the right panel; ignore the *User ID* and *Password* request in the left panel.
- 4 Complete the requested information; create a personal ID (i.e. first name and last name together, such as FIRSTLAST).
- 5 Click on *I Accept* at the bottom right; the **Contact Information** form appears.



- 6 Complete the contact information in this form and then click on *Continue*; the **Credit Card Information** form appears.
- 7 Enter valid Credit Card information; **FedEx** will respond by sending an E-mail message with your new *Account Number*.
- 8 Record and store the new *Account Number*, together with your *User ID* and *Password*.

## Receiving a Meter Number

The *Meter Number* is required in order to integrate **FedEx** into the system's *Shipping Methods*. To acquire the *Meter Number*, carry out the following steps:

**Note:** The following procedure is necessary for the purpose of acquiring the *Meter Number* only.

- 1 Go to <http://www.fedex.com/us/software/>; the **FedEx Ship Manager Software** window appears.  
**Note:** The *FedEx Ship Manager Software Installation Guide* also appears in *FedEx Ship Manager Software* window. It is highly recommended to read through the *Installation Guide* and to carry out its recommendations.
- 2 Click on the *Download Software* link for *FedEx Ship Manager* software; the file is downloaded to the desktop and the *FedEx Ship Manager - Install Shield Wizard* appears.
- 3 Click on *Next*; the **Installation Country Selection** window appears.
- 4 Select the appropriate country and then click on *Next*; the **License Agreement** window appears.
- 5 Accept the terms and click on *Next*; the **Destination Folder** window appears.
- 6 Click on *Next*; the **Custom Setup** window appears.
- 7 Click on *Next*; the **Ready to Install the Program** window appears.
- 8 Click on *Install* and then click on *Finish* in the **Install Shield Wizard Completed** window; the *FedEx Ship Manager* icon appears on the Desktop.
- 9 Double-click on the *FedEx Ship Manager* icon; the **FedEx Ship Manager** wizard appears.
- 10 Follow the wizard steps until the final step where you will be given your *Meter Number*.

**Note:** See "*FreeFlow Web Services Shipping Methods Setup*" on page 9 to complete the configuration.

## UPS Rates Tables

In order to download the *Rates and Service Guide* from UPS, go to the following link:

[www.ups.com/content/us/en/resources/service/download.html](http://www.ups.com/content/us/en/resources/service/download.html)

Sample of 'UPS Ground Commercial' service for the relevant zones:

**Domestic**  
**UPS Ground – Commercial**  
GUARANTEED DAY-DEFINITE\*

Guaranteed day-definite delivery to all 50 states and Puerto Rico. UPS Hundredweight Service\* available to customers with an Automatic Daily Pickup. (See pages 58 and 59.)

Zones	2	3	4	5	6	7	8	44†	45†	46†
1 Lbs.	\$3.80	\$3.88	\$4.00	\$4.16	\$4.38	\$4.45	\$4.56	\$14.04	\$14.04	\$25.44
2	3.84	4.07	4.47	4.54	4.88	5.00	5.30	15.68	15.68	26.97
3	3.87	4.26	4.70	4.85	5.22	5.39	5.88	17.13	17.13	28.42
4	3.98	4.41	4.96	5.17	5.52	5.70	6.26	18.66	18.66	30.06
5	4.25	4.49	5.20	5.41	5.77	6.01	6.64	20.47	20.47	31.87
6	4.32	4.68	5.29	5.58	5.96	6.25	6.87	22.46	22.46	33.85
7	4.57	4.82	5.42	5.77	6.18	6.50	7.18	24.09	24.09	35.48
8	4.74	4.98	5.56	5.91	6.39	6.81	7.68	25.84	25.84	37.13
9	4.89	5.13	5.68	6.06	6.56	7.18	8.18	27.74	27.74	38.96
10	5.06	5.16	5.82	6.23	6.83	7.69	8.74	29.49	29.49	40.69
11	5.23	5.41	5.93	6.40	7.12	8.24	9.36	31.31	31.31	42.42
12	5.38	5.59	6.06	6.57	7.45	8.79	10.05	32.85	32.85	44.24
13	5.56	5.77	6.17	6.72	7.81	9.35	10.72	34.31	34.31	45.70
14	5.67	5.95	6.29	6.87	8.24	9.90	11.40	35.87	35.87	47.16
15	5.82	6.14	6.40	7.03	8.68	10.46	12.07	37.33	37.33	48.62
16	5.85	6.25	6.50	7.18	9.01	10.90	12.61	39.17	39.17	50.32
17	5.94	6.46	6.70	7.47	9.47	11.43	13.27	40.81	40.81	51.97
18	6.04	6.67	6.92	7.85	9.92	11.95	13.94	42.65	42.65	53.80
19	6.19	6.89	7.18	8.21	10.37	12.48	14.62	44.39	44.39	55.53
20	6.32	7.12	7.43	8.59	10.83	13.01	15.30	46.03	46.03	57.18
21	6.47	7.34	7.67	8.95	11.27	13.53	15.97	47.40	47.40	58.83

**Note:** The Zone chart above can be accessed at:

[www.ups.com/content/us/en/shipping/time/zones/current/daily.html](http://www.ups.com/content/us/en/shipping/time/zones/current/daily.html)

Download the zip file which includes some excel files with all zones and services.

See the *FreeFlow Web Services Shipping Methods Setup* section to complete the configuration.

## DHL Rates Tables

The Zone chart can be accessed at:

[www.dhl-usa.com/Using/ZoneChart.asp?nav=GetRates/ZoneChart](http://www.dhl-usa.com/Using/ZoneChart.asp?nav=GetRates/ZoneChart)

Destination Zip		Zone	Destination Zip		Zone	Destination Zip		Zone	Destination Zip		Zone
00400 - 00599		4	38700 - 38799		5	73300 - 73399		6	96797 - 96797		10
00600 - 00799		17	38800 - 38999		4	73400 - 76799		5	96798 - 96800		12
00800 - 00899		17	39000 - 39699		5	76800 - 76999		6	96801 - 96863		10
00900 - 00999		17	39700 - 39799		4	77000 - 77899		5	96864 - 96899		12
01000 - 01699		4	39800 - 39899		5	77900 - 83099		6	97000 - 97799		8
01700 - 03199		5	39900 - 39999		4	83100 - 85399		7	97800 - 97999		7
03200 - 03499		4	40000 - 40999		3	85400 - 85499		8	98000 - 98999		8
03500 - 03599		5	41000 - 41099		2	85500 - 86599		7	99000 - 99299		7
03600 - 03799		4	41100 - 41899		3	87000 - 87299		6	99300 - 99399		8
03800 - 04999		5	41900 - 42099		4	87300 - 87399		7	99400 - 99499		7
05000 - 05499		4	42100 - 42799		3	87400 - 87999		6	99500 - 99500		11
05500 - 05599		5	43000 - 45999		2	88000 - 88099		7	99501 - 99524		9
05600 - 05899		4	46000 - 46699		3	88100 - 88599		6	99525 - 99539		11
05900 - 05999		5	46700 - 47099		2	88900 - 89399		7	99540 - 99540		11
06000 - 13999		4	47100 - 47199		3	89400 - 89799		8	99541 - 99566		11
14000 - 14399		3	47200 - 47399		2	89800 - 89899		7	99567 - 99567		9
14400 - 14699		4	47400 - 47999		3	90000 - 96699		8	99568 - 99576		11
14700 - 14799		3	48000 - 48399		2	96700 - 96700		12	99577 - 99577		9
14800 - 14999		4	48400 - 48799		3	96701 - 96701		10	99578 - 99610		11
15000 - 15399		2	48800 - 49299		2	96702 - 96705		12	99611 - 99611		9
15400 - 16099		3	49300 - 49699		3	96706 - 96707		10	99612 - 99634		11
16100 - 16199		2	49700 - 50999		4	96708 - 96708		12	99635 - 99635		9
16200 - 16899		3	51000 - 51399		5	96709 - 96709		10	99636 - 99644		11
16900 - 17699		4	51400 - 51499		4	96710 - 96710		12	99645 - 99645		9

The *DHL Rate Guide* can be accessed at:

[http://www.dhl-usa.com/rate\\_chart/rate\\_chart.asp?accountInfo=false&nav=GetRates/RateGuide2006](http://www.dhl-usa.com/rate_chart/rate_chart.asp?accountInfo=false&nav=GetRates/RateGuide2006)

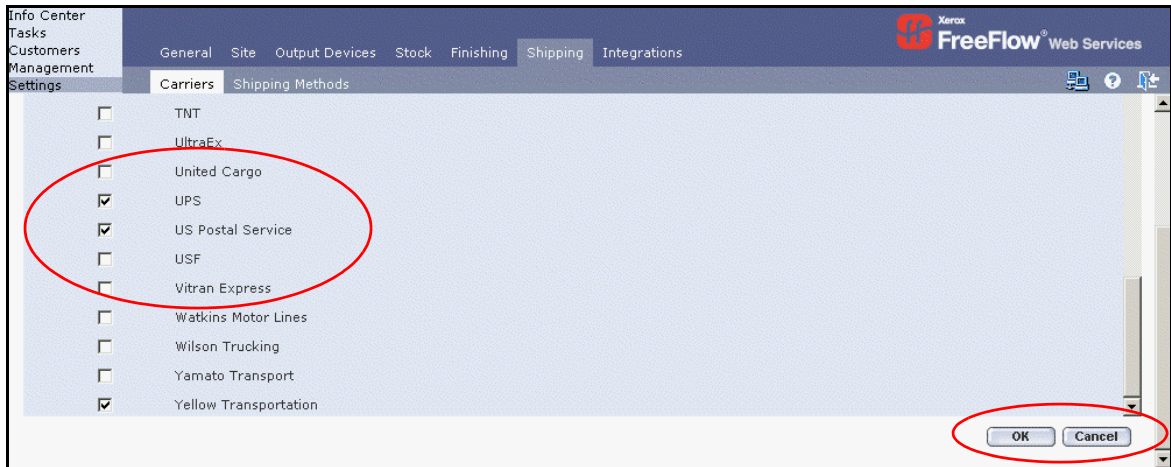
DHL Next Day 10:30 AM Rates															
WEIGHT	Zone							WEIGHT	Zone						
(lbs.)	2	3	4	5	6	7	8	(lbs.)	2	3	4	5	6	7	8
Letter	\$14.40	\$16.40	\$18.40	\$19.00	\$19.90	\$20.40	\$21.30	76	\$101.50	\$138.50	\$205.50	\$226.80	\$243.10	\$255.40	\$264
1	\$17.80	\$22.60	\$26.40	\$29.00	\$31.40	\$33.30	\$33.90	77	\$103.30	\$140.60	\$208.30	\$229.60	\$247.20	\$258.60	\$268
2	\$18.70	\$24.10	\$29.70	\$32.30	\$35.20	\$36.30	\$37.60	78	\$105.10	\$142.90	\$212.20	\$232.50	\$251.00	\$261.90	\$272
3	\$20.60	\$25.40	\$32.80	\$35.40	\$38.90	\$40.00	\$41.00	79	\$106.70	\$145.20	\$215.30	\$235.90	\$254.50	\$265.70	\$275
4	\$21.60	\$26.40	\$35.90	\$38.70	\$42.40	\$43.60	\$44.80	80	\$107.50	\$147.80	\$218.60	\$239.00	\$258.20	\$269.70	\$279
5	\$22.70	\$28.00	\$39.20	\$42.30	\$45.90	\$46.60	\$48.20	81	\$110.00	\$150.10	\$221.40	\$242.10	\$261.60	\$272.70	\$283
6	\$23.70	\$29.50	\$41.50	\$45.30	\$49.60	\$50.40	\$52.50	82	\$111.80	\$152.20	\$224.30	\$245.80	\$264.50	\$276.20	\$287
7	\$24.50	\$31.20	\$44.00	\$48.40	\$53.30	\$54.30	\$55.70	83	\$113.70	\$154.50	\$227.40	\$248.60	\$267.80	\$279.70	\$291
8	\$25.50	\$32.80	\$46.60	\$51.20	\$57.00	\$57.90	\$58.70	84	\$115.20	\$156.80	\$230.40	\$251.50	\$271.60	\$283.20	\$293
9	\$26.30	\$34.60	\$49.50	\$54.30	\$60.40	\$61.70	\$62.50	85	\$115.50	\$159.40	\$233.80	\$254.60	\$274.90	\$286.20	\$295
10	\$26.70	\$36.30	\$52.80	\$57.60	\$64.00	\$65.10	\$66.10	86	\$118.10	\$161.70	\$236.90	\$257.70	\$278.40	\$289.70	\$302
11	\$28.10	\$37.20	\$55.30	\$60.40	\$67.20	\$68.70	\$69.70	87	\$119.60	\$164.30	\$240.50	\$261.20	\$281.90	\$293.00	\$306
12	\$28.80	\$38.20	\$57.90	\$63.30	\$70.40	\$71.70	\$73.10	88	\$120.90	\$166.30	\$243.80	\$264.50	\$284.60	\$296.80	\$309
13	\$29.60	\$39.70	\$60.40	\$66.40	\$73.30	\$75.50	\$76.60	89	\$122.40	\$168.70	\$246.70	\$267.40	\$288.20	\$300.60	\$311
14	\$30.40	\$40.70	\$63.00	\$69.90	\$76.10	\$78.40	\$80.20	90	\$123.80	\$171.00	\$249.80	\$270.20	\$289.70	\$304.10	\$315
15	\$31.40	\$42.50	\$66.10	\$73.00	\$78.70	\$81.10	\$83.20	91	\$125.60	\$173.30	\$252.90	\$273.40	\$291.70	\$307.40	\$317
16	\$32.60	\$44.30	\$68.00	\$74.90	\$80.00	\$82.70	\$85.30	92	\$127.10	\$175.30	\$255.90	\$276.70	\$298.70	\$311.20	\$319
17	\$33.40	\$45.60	\$69.50	\$76.60	\$82.40	\$84.50	\$87.20	93	\$128.70	\$176.90	\$258.80	\$280.30	\$302.20	\$314.90	\$326
18	\$34.40	\$46.30	\$71.30	\$77.90	\$84.30	\$86.40	\$89.40	94	\$130.00	\$179.20	\$261.60	\$283.50	\$306.00	\$319.00	\$330
19	\$35.20	\$47.10	\$72.90	\$79.70	\$86.10	\$88.00	\$92.20	95	\$131.80	\$181.50	\$264.40	\$286.60	\$309.00	\$322.00	\$334
20	\$35.40	\$47.50	\$73.30	\$80.10	\$86.50	\$88.30	\$92.20	96	\$133.10	\$184.10	\$267.00	\$289.20	\$311.90	\$325.20	\$337
21	\$36.10	\$48.20	\$75.30	\$81.90	\$88.60	\$90.70	\$94.30	97	\$134.70	\$185.90	\$269.60	\$292.10	\$314.70	\$327.90	\$340
22	\$36.90	\$49.00	\$77.30	\$83.80	\$90.70	\$92.60	\$96.40	98	\$135.90	\$188.50	\$271.90	\$295.20	\$318.20	\$331.70	\$344
23	\$37.60	\$50.20	\$79.10	\$86.10	\$92.20	\$94.70	\$98.80	99	\$136.20	\$190.50	\$273.80	\$297.80	\$320.70	\$334.40	\$347
24	\$38.60	\$51.20	\$81.10	\$88.60	\$94.60	\$97.00	\$100.90	100	\$136.70	\$192.10	\$275.30	\$300.00	\$323.00	\$335.00	\$349
25	\$39.40	\$52.50	\$83.40	\$91.10	\$96.70	\$99.30	\$102.70	101	\$138.00	\$194.00	\$278.00	\$303.00	\$326.30	\$338.40	\$352
26	\$40.40	\$53.70	\$85.60	\$93.20	\$99.30	\$101.70	\$104.30	102	\$139.40	\$195.90	\$280.80	\$306.00	\$329.50	\$341.70	\$356
27	\$41.40	\$54.50	\$88.10	\$95.40	\$101.90	\$103.20	\$107.20	103	\$140.70	\$197.90	\$283.50	\$309.00	\$332.70	\$345.10	\$359
28	\$42.20	\$55.50	\$89.90	\$97.40	\$103.70	\$105.60	\$109.00	104	\$142.10	\$199.80	\$286.20	\$312.00	\$335.90	\$348.40	\$363
29	\$42.90	\$56.50	\$91.90	\$99.70	\$106.10	\$107.90	\$111.30	105	\$143.50	\$201.70	\$289.00	\$315.00	\$339.20	\$351.70	\$366
30	\$44.20	\$57.30	\$93.90	\$101.90	\$108.20	\$110.00	\$114.00	106	\$144.80	\$203.60	\$291.70	\$318.00	\$342.40	\$355.10	\$369
31	\$45.20	\$58.50	\$95.90	\$104.20	\$110.30	\$111.80	\$116.30	107	\$146.20	\$205.50	\$294.50	\$321.00	\$345.60	\$358.40	\$373
32	\$46.00	\$60.00	\$97.00	\$106.40	\$112.10	\$113.30	\$118.00	108	\$147.50	\$207.40	\$297.30	\$324.00	\$348.80	\$361.80	\$376

See the *FreeFlow Web Services Shipping Methods Setup* section to complete the configuration.

# FreeFlow Web Services Shipping Methods Setup

To set up the *FreeFlow Web Services Shipping Methods*, carry out the following steps:

- 1 Shippers must be added to the list.
  - a. Log in to Print Provider side and click on **Settings/Shipping/Carriers**.
  - b. Some shippers are already defined and are enabled first on the **Carriers** screen.
  - c. Click on **OK** to save changes.



- 2 Click on **Settings/Shipping/Shipping Methods**.
- 3 Click on the **Add** button to define new shipping methods.
- 4 Provide a **Shipping Method Description** name.
- 5 Select the target carrier in the **Carrier** dropdown box.
- 6 Select a **Delivery Method**.
- 7 Select **Pricing Model**.

For Online pricing, enter the **Username**, **Password** and **Access Key** (acquired above) into the appropriate fields and click on **OK** (See UPS example).

The screenshot displays the 'Shipping Methods' configuration window in the FreeFlow Web Services interface. On the left, a list of shipping methods is shown, with 'UPS Ground' selected. The main configuration area on the right includes the following fields:

- Shipping Method Description:** UPS Ground
- Carrier:** UPS
- Delivery Method:** UPS Ground
- Pricing Model:** Online (circled in red)
- Mark-up:** 0 %
- Handling Fee:** 7 \$
- Online Pricing Access Attributes (circled in red):**
  - Username: [ ]
  - Password: [ ]
  - Access Key: [ ]

Buttons for 'OK' and 'Cancel' are located at the bottom right of the configuration area.

For *Excel* pricing, upload and select the appropriate excel pricing file.

In order to ensure that all details are defined correctly, carry out the following steps:

- 1 Click on **Tasks/Delivery** and select one Job in the batch order.
- 2 Click on the **Shipping Calculator** and then click on the **Shipping Methods** dropdown box.
- 3 Select Online UPS, enter **Weight** and **Carton Size** information and click then on **Estimate Price**.



