



## BF Admin Module Shipping Charges.doc

Last Updated: 17-Sep-2013

# TABLE OF CONTENTS

<b><u>1</u></b>	<b><u>Modification History</u></b>	<b>3</b>
<b><u>2</u></b>	<b><u>Navbar and Sub-Menu</u></b>	<b>4</b>
<b><u>3</u></b>	<b><u>Overview</u></b>	<b>5</b>
3.1	<u>OFBiz Shipping Charges: Overview</u>	5
<b><u>4</u></b>	<b><u>Manage Carriers</u></b>	<b>6</b>
4.1	<u>List Carriers</u>	6
4.2	<u>Manage Carrier</u>	6
<b><u>5</u></b>	<b><u>Manage Shipping Methods</u></b>	<b>8</b>
5.1	<u>List Shipping Methods</u>	8
5.2	<u>Manage Shipping Method</u>	8
<b><u>6</u></b>	<b><u>Manage Shipping Charges</u></b>	<b>9</b>
6.1	<u>Search Capability</u>	9
6.2	<u>List</u>	9
6.3	<u>Sort Sequence</u>	9
6.4	<u>List Shipping Charges</u>	9
6.5	<u>Manage Shipping Charges</u>	10
6.6	<u>Technical Notes:</u>	12
<b><u>7</u></b>	<b><u>Shipment Gateway Settings</u></b>	<b>14</b>
7.1	<u>Technical Note</u>	14
7.2	<u>List Screen</u>	14
7.3	<u>DHL</u>	14
7.4	<u>FEDEX</u>	15
7.5	<u>UPS</u>	16
7.6	<u>USPS</u>	17
7.7	<u>BLUEDART</u>	18

## 1 Modification History

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Date	Who	Comments
31-May-12	Solveda	Initial
18-Jun-12	Solveda	Shipment-Method is a dropdown on Carrier-and-Shipping-Method detail screen
30-Jul-12	Solveda	Added functions to maintain Shipping Methods
2-Aug-12	Solveda	Reworked and simplified
8-Apr-13	Solveda	Added "Tracking URL" for a Carrier
25-Apr-13	Solveda	Added "Shipment Gateway" attribute. Also added a new menu item to configure the Shipment Gateway
30-Apr-13	Solveda	Exposed additional attributes on PRODUCT_STORE_SHIPPING_METH
14-Jun-13	Solveda	Exposed MAX-MIN WEIGHT on PRODUCT_STORE_SHIPPING_METH
17-Sep-13	Solveda	Added Include/Exclude Feature Group to Shipping Charges

# shipping charges & taxes

<b><u>Manage Carriers</u></b> View and maintain all available Carriers (Fedex, DHL, UPS)	<b><u>Manage Shipping Methods</u></b> View and maintain all available Shipping Methods (Air, Next Day).	<b><u>Manage Shipping Charges</u></b> For a Carrier, Shipping Method combination, view and maintain the actual shipping charges.
<b><u>Manage Shipment Gateways</u></b> Parameters and configuration options for the various supported Shipping Gateways. This will include all parameters, API references, access information etc.		

- NOTE:
  - this sub menu is part of the "Charges" main menu item
  - this sub menu should also contain all Tax menu items (after Shipping menu items)
  - See spec "[\*BF Admin Modules Taxes.doc\*](#)" for more information

## 3 Overview

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### 3.1 OFBiz Shipping Charges: Overview

- Within OFBiz, the setup of Shipping Charges is very flexible
  - Multiple Carriers
  - Rules for different shipping charges depending on how much is spent on the eCommerce site
  - Geographically considerations (where is the package being sent)
  - Considerations for size and weight of the packages
  - Rules to determine shipping as a percent of the cart total, flat rate
  - Considerations for types of products, categories
  - And much more!
  - Development should be familiar with the OOTB functionality
- Exposing Shipping within BigFish, Phase 1
  - For Phase 1, BigFish will expose a very simple subset of the overall functionality available
  - Multiple Carriers
  - Price Breaks
  - Flat Rate for the entire Order
  - Additional functionality will be exposed as demanded by future clients
- Relevant OFBiz entities for Phase I
  - PRODUCT\_STORE\_SHIPMENT\_METH
    - This defines the main Shipment Methods that are available, for the Product Store
    - Multiple Shipment Methods, for the same Carrier, can be defined here – with basic rules to make the entries unique
    - One such rule is the Min/Max value; this will be used to allow a client to setup rules whereby the Shipping Charges vary depending on the amount spent
  - SHIPMENT\_COST\_ESTIMATE
    - For each of the entries defined in PRODUCT\_STORE\_SHIPMENT\_METH, this entity will store the actual Shipping Charge
  - SHIPMENT\_GATEWAY\_CONFIG
    - For each of the entries defined in SHIPMENT\_GATEWAY\_CONFIG, this entity will store the available Shipment gateways (FEDEX, UPS, USPS, DHL, BLUE DART).

## 4 Manage Carriers

### 4.1 List Carriers

## list carriers

Carrier List		
Carrier ID	Description	Tracking URL
<a href="#">DHL</a>	DHL Carrier	http://www.fedex.com/tracking/?trackingNum=\${TRACKING_NUMBER!}
<a href="#">FEDEX</a>	Fedex Carrier	
<a href="#">UPS</a>	United Parcel Service	
<a href="#">USPS</a>	United States Postal Service	

[Back](#)[Add Carrier](#)

#### ■ Link / Button Actions:

- "Carrier" link:
  - redirect to the "manage carrier" screen (in edit mode)
- "Add Carrier" button:
  - redirect to the "manage carrier" screen (in "add" mode)

### 4.2 Manage Carrier

## manage carrier

Carrier Detail	
Carrier ID:	<input type="text" value="FEDEX"/>
Description:	<input type="text" value="Fedex Carrier"/>
Tracking URL:	<input type="text" value="http://www.fedex.com/tracking/?trackingNum=\${TRACKING_NUMBER!}"/>

[Back](#)[Save](#)

- Carrier:
  - Must have a value entered. "You must enter a value for Carrier"
  - Must be unique. "Your entry [carrier] must be a unique value"
- Description:
  - Must have a value entered. "You must enter a value for Description"

■ OFBiz Mapping

PARTY.PARTY_ID	Carrier
PARTY.PARTY_TYPE_ID	PARTY_GROUP
PARTY.STATUS_ID	PARTY_ENABLED
PARTY_ROLE.PARTY_ID	Carrier
PARTY_ROLE.ROLE_TYPE_ID	CARRIER
PARTY_GROUP.PARTY_ID	Carrier
PARTY_GROUP.GROUP_NAME	Description
PARTY_CONTENT.PARTY_CONTENT_TYPE (partyContentTypeId:TRACKING_URL)	Tracking URL

- **NOTE LS 04/25/13** – The Shipment gateway Config in Ofbiz (FedEx, UPS, USPS) do NOT have an attribute for a tracking URL, therefore we can either add to each of the gateway config and contribute back to Ofbiz or leave as a Party Attribute till we figure out the finer details. As of now I am inclined to go with the latter option?

## 5 Manage Shipping Methods

### 5.1 List Shipping Methods

## list shipping methods

Shipping Method List	
Shipping Method	Description
<a href="#">STANDARD</a>	Standard Shipping
<a href="#">NEXT_DAY</a>	Next Day Shipping
<a href="#">2DAY</a>	Standard Two Day Shipping
<a href="#">EVENTUALLY</a>	Some time in the future

[Back](#)[Add Shipping Method](#)

#### ■ Link / Button Actions:

- "Shipping Method" link:
  - redirect to the "manage shipping method" screen (in edit mode)
- "Add Shipping Method" button:
  - redirect to the "manage shipping method" screen (in "add" mode)

### 5.2 Manage Shipping Method

## manage shipping method

Shipping Method Detail	
Shipping Method:	<input type="text" value="STANDARD"/>
Description	<input type="text" value="Standard Shipping"/>
Sequence	<input type="text" value="30"/>

[Back](#)[Save](#)

- Shipping Method:
  - Must have a value entered. "You must enter a value for Shipping Method"
  - Must be unique. "Your entry [Shipping Method] must be a unique value"
- Description:
  - Must have a value entered. "You must enter a value for Description"
- OFBiz Mapping

SHIPMENT_METHOD_TYPE.SHIPMENT_METHOD_TYPE_ID	Shipping Method
SHIPMENT_METHOD_TYPE.DESCRPTION	Description
SHIPMENT_METHOD_TYPE.SEQUENCE_NUM	Sequence



## 6 Manage Shipping Charges

### 6.1 Search Capability

- No search, the List should pre-retrieve and display all available rows

### 6.2 List

- OFBiz Entity:
  - This screen combines the updates into the two OFBiz entities:

CARRIER\_SHIPMENT\_METHOD  
PRODUCT\_STORE\_SHIPMENT\_METH


Caption	DB	Comment
ID	PRODUCT_STORE_SHIPMENT_METH.PRODUCT_STORE_SHIP_METH_ID	Left-aligned
Shipping Method	PRODUCT_STORE_SHIPMENT_METH.SHIPMENT_METHOD_TYPE_ID CARRIER_SHIPMENT_METHOD.SHIPMENT_METHOD_TYPE_ID	Left-aligned
Carrier	PRODUCT_STORE_SHIPMENT_METH.PARTY_ID	Centered
Carrier Service Code	CARRIER_SHIPMENT_METHOD.CARRIER_SERVICE_CODE	Left-aligned
Message	CARRIER_SHIPMENT_METHOD.OPTIONAL_MESSAGE	Left-aligned
Shipment Gateway	PRODUCT_STORE_SHIPMENT_METH.SHIPMENT_GATEWAY_CONFIG_ID SHIPMENT_GATEWAY_CONFIG.SHIPMENT_GATEWAY_CONFIG_TYPE_ID	
Minimum Total	PRODUCT_STORE_SHIPMENT_METH.MIN_TOTAL	Centered
Maximum Total	PRODUCT_STORE_SHIPMENT_METH.MAX_TOTAL	Centered
Seq#	PRODUCT_STORE_SHIPMENT_METH.SEQUENCE_NUMBER CARRIER_SHIPMENT_METHOD.SEQUENCE_NUMBER	Centered
Flat Rate	SHIPMENT_COST_ESTIMATE.ORDER_FLAT_PRICE	Centered

### 6.3 Sort Sequence

- Seq#

### 6.4 List Shipping Charges

## list shipping charges

Matching Shipping Charges							
ID	Seq#	Carrier	Shipping Method	Carrier Service Code	Message	Shipment Gateway	Min Total
ID1	1	DHL	EXPRESS	E			25.00
ID2	1	FEDEX	EXPRESS	FEDEXEXPRESSSAVER	3-5 Business Days	FEDEX	
ID3 	2	UPS	STANDARD	Standard	1-4 business days	UPS	
ID4	5	UPS	AIR	2			
ID5	4	USPS	STANDARD	Standard	5-9 business days	USPS	
ID6	3	USPS	STANDARD_2	Standard	5-9 business days		
ID7	2	USPS	EXPRESS	Express			

Back

Add Shipping Charge

- Processing
  - The Info Icon ⓘ is displayed if a Custom Method is being used to compute the Shipping Charges

"Custom Method [CUSTOM\_METHOD] is used to compute Shipping Charges"

■ Link / Button Actions:

- "ID" link:
  - redirect to the "manage shipping charge" screen (in edit mode)
- "Add Shipping Charge" button:
  - redirect to the "manage shipping charge" screen (in edit mode)

## 6.5 Manage Shipping Charges

# manage shipping charges

Shipping Charge Detail	
ID:	<input type="text" value="GMH_5001"/>
Carrier:	<input type="text" value="USPS"/>
Shipping Method:	<input type="text" value="STANDARD"/>
Shipment Gateway:	<input type="text" value="Fed Ex Config"/>
Shipment Custom Method:	<input type="text" value="DD"/>
Carrier Service Code:	<input type="text" value="FEDEXEXPRESSSAVER"/>
Message:	<input type="text" value="3-5 Business Days"/>
Min Total:	<input type="text" value="25.00"/>
Max Total:	<input type="text"/>
Min Weight:	<input type="text"/>
Max Weight:	<input type="text"/>
Seq#:	<input type="text" value="1"/>
Flat Rate:	<input type="text" value="5.95"/>
Deliver to PO Box:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Include Country:	<input type="text" value="Drop-Down"/>
Exclude Country:	<input type="text" value="Drop-Down"/>
Include Feature Group:	<input type="text" value="Drop-Down"/>
Exclude Feature Group:	<input type="text" value="Drop-Down"/>

Back
Save
Delete

- **Carrier:**
  - Is offered as a drop-down using the PARTY\_ROLE entity with a ROLE\_TYPE\_ID of "CARRIER"
  - One must be selected. Message "One Carrier must be selected from the drop-down"
- **Shipping Method:**
  - Is offered as a drop-down using the SHIPMENT\_METHOD\_TYPE entity
  - One must be selected. Message "One Shipping Type must be selected from the drop-down"
- **Shipment Gateway:**
  - Is offered as a drop-down using the SHIPMENT\_GATEWAY\_CONFIG entity
  - This field is optional
- **Shipment Custom Method:**
  - Is offered as a drop-down using the CUSTOM\_METHOD entity by type "SHIP\_CHARGE\_AVAIL"
  - This field is optional
- **Carrier / Shipment Validation**
  - Carrier and Shipment Method is selected independently
  - Validation required to ensure that the specific combination is valid
  - Verify against entity CARRIER\_SHIPMENT\_METHOD
  - If not a valid combination: "The Carrier [xxx] and Shipment Method [yyy] are not a valid combination. Use the Carrier/Shipment-Method functions to create this combination"
- **Min-Total and Max-Total:**
  - May be left blank
  - If entered, the values must be numeric. "XXX Total must contain a numeric value"
  - If both are entered, the Max-Total must be greater than the Min-Total. "Max Total must be greater than Min Total"
- **Min-Weight and Max-Weight:**
  - May be left blank
  - If entered, the values must be numeric: "XXX Weight must contain a numeric value"
  - If both are entered, the Max-Weight must be greater than the Min-Weight. "Max Weight must be greater than Min Weight"
  - Helper Text
    - Min Weight: "Offer this Shipping Charge if the total weight of ALL items in the Shipping Cart is greater than or equal to this value"
    - Max Weight: "Offer this shipping Charge if the total weight of ALL items in the Shopping Cart is less than or equal to this value"
- **Seq#:**
  - Default to 1
- **Flat Rate**
  - The value must be numeric. "Flat Rate must be numeric"
- **Deliver to PO Box**
  - Is offered as a radio Option, default is 'Y'.

- DB: PRODUCT\_STORE\_SHIP\_METH.ALLOW\_USPS\_PO\_BOX\_ADDR
- Include / Exclude Country:
  - This is only offered in a multi country implementation
    - COUNTRY\_MULTI = "TRUE"
  - Use the available countries in the COUNTRY\_DROPDOWN parameter to populate these drop down prompts
    - If value is "ALL" then populate with all GEO's with a TYPE = "COUNTRY"
  - When setting the value this will identify the GEO (TYPE = "COUNTRY") that the Shipping Charge will support (using Include / Exclude as appropriate)
  - Both fields, if offered, are optional
- Include / Exclude Feature Group:
  - Is offered as a drop-down using the PRODUCT\_FEATURE\_GROUP entity
    - Key = PRODUCT\_FEATURE\_GROUP. PRODUCT\_FEATURE\_GROUP\_ID
    - Value = PRODUCT\_FEATURE\_GROUP. DESCRIPTION
  - Both fields are optional
- "Delete"
  - Confirmation message "Are you sure you want to delete this Shipping Charge?"
  - Removes this specific shipping charge

## 6.6 Technical Notes:

### ■ Ofbiz Mapping

Caption	DB
ID	PRODUCT_STORE_SHIPMENT_METH.PRODUCT_STORE_SHIP_METH_ID
Shipping Method	PRODUCT_STORE_SHIPMENT_METH.SHIPMENT_METHOD_TYPE_ID CARRIER_SHIPMENT_METHOD.SHIPMENT_METHOD_TYPE_ID
Carrier	PRODUCT_STORE_SHIPMENT_METH.PARTY_ID
Carrier Service Code	CARRIER_SHIPMENT_METHOD.CARRIER_SERVICE_CODE
Message	CARRIER_SHIPMENT_METHOD.OPTIONAL_MESSAGE
Shipment Gateway	PRODUCT_STORE_SHIPMENT_METH.SHIPMENT_GATEWAY_CONFIG_ID SHIPMENT_GATEWAY_CONFIG.SHIPMENT_GATEWAY_CONFIG_TYPE_ID
Min Total	PRODUCT_STORE_SHIPMENT_METH.MIN_TOTAL
Max Total	PRODUCT_STORE_SHIPMENT_METH.MAX_TOTAL
Min Weight	PRODUCT_STORE_SHIPMENT_METH.MIN_WEIGHT
Max Weight	PRODUCT_STORE_SHIPMENT_METH.MAX_WEIGHT
Seq#	PRODUCT_STORE_SHIPMENT_METH.SEQUENCE_NUMBER CARRIER_SHIPMENT_METHOD.SEQUENCE_NUMBER
Flat Rate	SHIPMENT_COST_ESTIMATE.ORDER_FLAT_PRICE
PO Box	PRODUCT_STORE_SHIPMENT_METH.ALLOW_PO_BOX_ADDR
Include Country	PRODUCT_STORE_SHIPMENT_METH.INCLUDE_GEO_ID
Exclude Country	PRODUCT_STORE_SHIPMENT_METH.EXCLUDE_GEO_ID
Include Feature Group	PRODUCT_STORE_SHIPMENT_METH.INCLUDE_FEATURE_GROUP
Exclude Feature Group	PRODUCT_STORE_SHIPMENT_METH..EXCLUDE_FEATURE_GROUP

- Custom Methods are loaded via an ant run command:
  - load-bigfish-custom-shipment-methods
- BLUE DART Shipment Custom Method:

- Additional check by "PIN Code" to ensure that the Customer's Shipping Address is an available destination
  - See spec "*BF Blue Dart Integration.doc*" for additional information
- If BLUE DART is unable to deliver to the Shipping address "PIN Code" then the Shipping Charge will be displayed as "Not Available"
- Entity: CUSTOM\_METHOD\_TYPE

CUSTOM_METHOD_TYPE_ID	DESCRIPTION
SHIP_CHARGE_AVAIL	Shipment Service which determines if a shipping Charge (method) is available

- Entity: CUSTOM\_METHOD

CUSTOM_METHOD_ID	CUSTOM_METHOD_TYPE_ID	CUSTOM_METHOD_NAME	DESCRIPTION
BDART_CHECK_DELIVERY	SHIP_CHARGE_AVAIL	blueDartCheckoutPincode	Service which checks if Blue Dart 'carrier' can deliver to customer's pincode

## Shipment Gateway Settings

### 7.1 Technical Note

- OFBiz OOTB functionality:
  - Facility / Shipment Gateway Config

### 7.2 List Screen

## shipment gateway settings

[message-area]

Shipment Gateways Settings	
Config ID	Description
<a href="#">DHL_CONFIG</a>	DHL Shipment Gateway
<a href="#">FEDEX_CONFIG</a>	FEDEX Shipment Gateway
<a href="#">UPS_CONFIG</a>	UPS Shipment Gateway
<a href="#">USPS_CONFIG</a>	USPS Shipment Gateway
<a href="#">BLUEDART_CONFIG</a>	BLUE DART Shipment Gateway

**Back**

- Technical Note: this is essentially a simple retrieve from the SHIPMENT\_GATEWAY\_CONFIG entity

### 7.3 DHL

## shipment gateway config

[message-area]

DHL_CONFIG	
Connect URL:	<input type="text" value="https://eCommerce.airborne.com/ApiLandingTest.asp"/>
Connect Timeout:	<input type="text" value="60"/>
Head version attribute:	<input type="text" value="1.1"/>
Head action attribute	<input type="text" value="Request"/>
Your DHL ShipIT User id:	<input type="text" value="USER ID"/>
Your DHL ShipIT Access Password:	<input type="text" value="ACCESS PASSWORD"/>
Your DHL ShipIT Account Number:	<input type="text" value="ACCOUNT NUMBER"/>
Your DHL ShipIT Shipping Key:	<input type="text" value="SHIPPING KEY"/>
Label Image Format:	<input type="text" value="PNG"/>

Rate Estimate API schema:

**Back**

**Save**

- Technical Note: this is essentially a simple update of the SHIPMENT\_GATEWAY\_DHL entity

## 7.4 FEDEX

# shipment gateway config

[message-area]

### FEDEX\_CONFIG

Connect URL:

Connect Soap URL:

Connect Timeout:

Access Account Number:

Access Meter Number:

Access User Key:

Access User Password:

Label Image Type:

Dropoff Type:

Packaging Type:

Shipment Template Location:

Subscription Template Location:

Rate Estimate Template Location:

**Back**

**Save**

- Implementation Details:

- Dropoff Type: drop-down:

```
<option value="REGULARPICKUP">---</option>
<option value="REGULARPICKUP">Regular Pickup</option>
<option value="REGULARPICKUP">Regular Pickup</option>
<option value="REQUESTCOURIER">Request Courier</option>
<option value="DROPBOX">Drop-Box</option>
<option value="BUSINESSSERVICECTR">Business Service Center</option>
<option value="STATION">Station</option>
```

- Packaging Type: drop-down:

```
<option value="YOURPACKNG" selected="selected">Your Packaging</option>
<option value="YOURPACKNG">---</option>
<option value="FXENV">Enveloper</option>
<option value="FXENV_LGL">Enveloper Legal</option>
<option value="FXPAK_SM">Pak Small</option>
<option value="FXPAK_LRG">Pak Large</option>
<option value="FXBOX_SM">Box Small</option>
<option value="FXBOX_MED">Box Medium</option>
<option value="FXBOX_LRG">Box Large</option>
<option value="FXTUBE">Tube</option>
<option value="FX10KGBOX">10KG Box</option>
<option value="FX25KGBOX">25KG Box</option>
<option value="YOURPACKNG">Your Packaging</option>
```

- Technical Note: this is essentially a simple update of the SHIPMENT\_GATEWAY\_FEDEX entity

## 7.5 UPS

# shipment gateway config

[message-area]

UPS_CONFIG	
Connect URL:	<input type="text" value="https://wwwcie.ups.com/ups.app/xml"/>
Connect Timeout:	<input type="text" value="60"/>
Shipper Number:	<input type="text" value="12345E"/>
Bill Shipper Account Number:	<input type="text" value="12345E"/>
Access License Number:	<input type="text" value="TEST262223144CAT"/>
Access User Id:	<input type="text" value="REG111111"/>
Access Password:	<input type="text" value="REG111111"/>
Save Cert Info:	<input type="text" value="Drop Down"/>
Save Cert Path:	<input type="text" value="\${sys:getProperty('ofbiz.home')}/runtime/output/upscert"/>
Shipper Pickup Type:	<input type="text" value="Drop Down"/>
Max Weight per package:	<input type="text" value="90"/>
Minimum Weight for a package:	<input type="text" value="0.1"/>
Allow COD:	<input type="text" value="Drop Down"/>
Surcharge Amount for COD:	<input type="text" value="REG111111"/>
Surcharge Currency:	<input type="text" value="USD"/>
Surcharge Apply to Package:	<input type="text" value="Drop Down"/>
Funds for COD:	<input type="text" value="Drop Down"/>



Default Return Label Memo:	UPS Shipment Return Memo
Default Return Label Subject:	UPS Shipment Return Label
<div> <div>Back</div> <div>Save</div> </div>	

■ Implementation Details:

- Save cert Info: drop-down:
  - <option value="true">True</option>
  - <option value="false">False</option>
- Shipper Pickup Type: drop-down:
  - <option value="06">One Time Pickup</option>
  - <option value="01">Daily Pickup</option>
  - <option value="03">Customer Counter</option>
  - <option value="06">One Time Pickup</option>
  - <option value="07">On Call Air Pickup</option>
  - <option value="11">Suggested Retail Rates</option>
  - <option value="19">Letter Center</option>
  - <option value="20">Air Service Center</option>
- Allow COD: drop-down:
  - <option value="true">True</option>
  - <option value="false">False</option>
- Surcharge Apply to Package: drop-down:
  - <option value="all">Surcharge amount will be applied to each shipment package</option>
  - <option value="first">Surcharge amount will be applied to the first package in the shipment</option>
  - <option value="split">Surcharge amount will be split between shipment packages</option>
  - <option value="none">Surcharge will not be applied to any packages </option>
- Funds for COD: drop-down:
  - <option value="0">Unsecured Funds Allowed</option>
  - <option value="8">Secured Funds Only</option>

- Technical Note: this is essentially a simple update of the SHIPMENT\_GATEWAY\_UPS entity

## 7.6 USPS

# shipment gateway config

[message-area]

USPS_CONFIG	
Connect URL:	<input type="text" value="http://production.shippingapis.com/ShippingAPITest.dll"/>
Connect Timeout:	<input type="text" value="60"/>
Access User Id:	<input type="text" value="REG111111"/>
Access Password:	<input type="text" value="REG111111"/>
Estimate split into packages:	<input type="text" value="70"/>
<input type="button" value="Back"/> <input type="button" value="Save"/>	

- Technical Note: this is essentially a simple update of the SHIPMENT\_GATEWAY\_USPS entity

## 7.7 BLUEDART

# shipment gateway config

[message-area]

BLUEDART_CONFIG	
Connect URL:	<input type="text" value="http://www.bluedart.com/servlet/RoutingServlet"/>
Customer Id:	<input type="text"/>
Customer License Key:	<input type="text" value="REG111111"/>
Version Number:	<input type="text" value="1.3"/>
Scan Number:	<input type="text" value="1"/>
Format:	<input type="text" value="Drop down"/>
<input type="button" value="Back"/> <input type="button" value="Save"/>	

- Implementation Details:

- Format attribute, drop-down:

```
<option value="xml">XML</option>
<option value="html">HTML</option>
```

- Technical Note: this is essentially a simple update of the SHIPMENT\_GATEWAY\_BLUEDART entity