



FedEx Address Validation REST API Configuration

Megan De Freitas - 2024-12-03 - Miscellaneous

Overview

FedEx Web Services API will be retired on Aug 31, 2024. The SOAP-based FedEx Web Services is in development containment and has been replaced with the FedEx REST API.

For more information, please visit the [FedEx Web Services](#) portal.

Required Modules

The following modules are required to use the new FedEx REST API:

Module	Replaces	Requires
SalesPad.Module.FedEx	SalesPad.Module.FedExAddressValidation	N/A

FedEx Developer Portal

To configure the FedEx REST API, the API Key and Secret Key must be obtained from the FedEx Developer Portal by following this [guide](#).

NOTE: Enter "SalesPad" instead of "ShipCenter" for the project name.

Settings

Before generating the FedEx REST API access token, enter the API Key and Secret Key in settings. Copy the API Key and Secret Key from the FedEx Developer Portal into the corresponding settings and save.

▼ FedEx - General	
Endpoint Type	Test
▼ FedEx - Production	
API Key	l780b9cea17d834481b384619bf9306aaf
API Secret Key	*****
FedEx Account Number	
▼ FedEx - Test	
API Key	l7f5985ca0661744df80be818651b10ed4
API Secret Key	*****
FedEx Account Number	

Endpoint Type - Specify the API endpoint to connect to. Use 'Test' for testing and 'Production' for live.

API Key - Specify the API Key (also known as Client ID) received during FedEx Developer Portal registration.

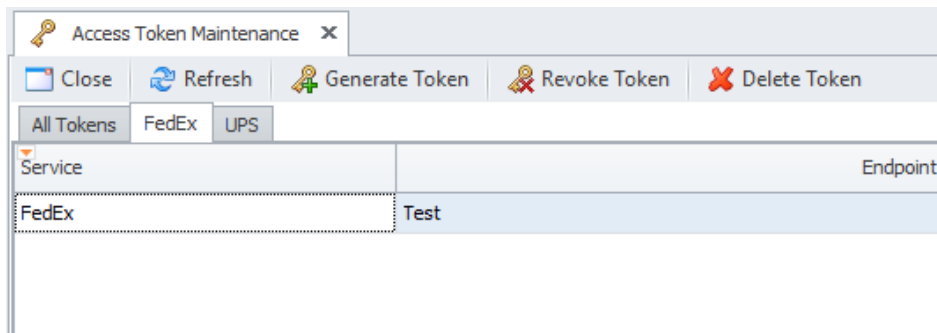
API Secret Key - Specify the Secret Key (also known as Client Secret) received during FedEx Developer Portal registration.

FedEx Account Number - A nine-digit number associated with your FedEx account.

Access Token Maintenance

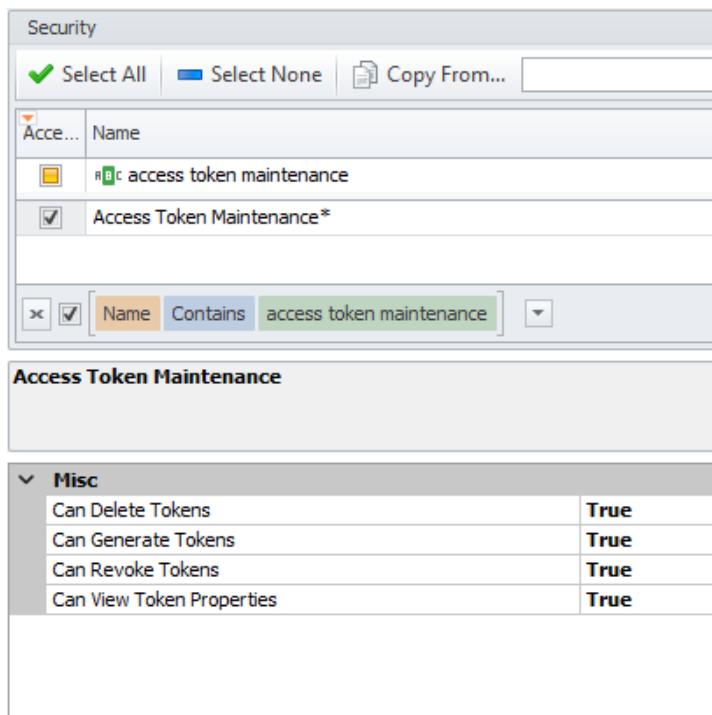
Overview

The Access Token Maintenance screen allows generating new access tokens for the FedEx REST API.



Security

Enable the Access Token Maintenance screen by going to the Security Editor (Modules -> System -> Security Editor) and making sure the Access Token Maintenance checkmark is checked.



Can Generate Tokens - Can generate new access tokens.

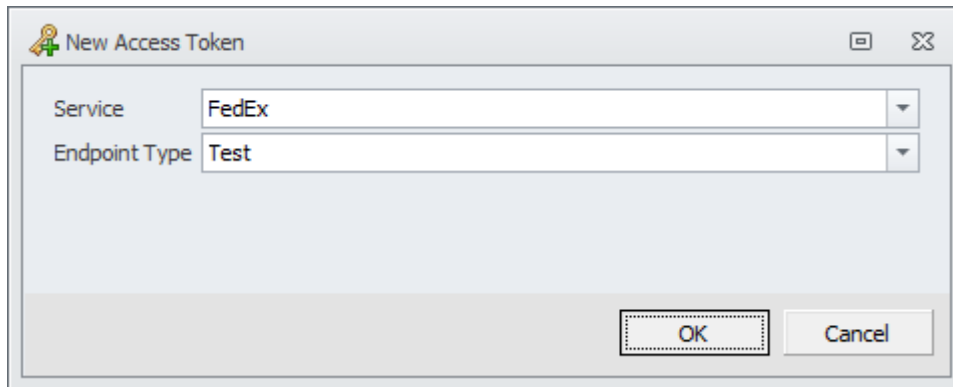
Can Revoke Tokens - Can revoke access tokens.

Can Delete Tokens - Can delete access tokens. This action will not revoke tokens from service.

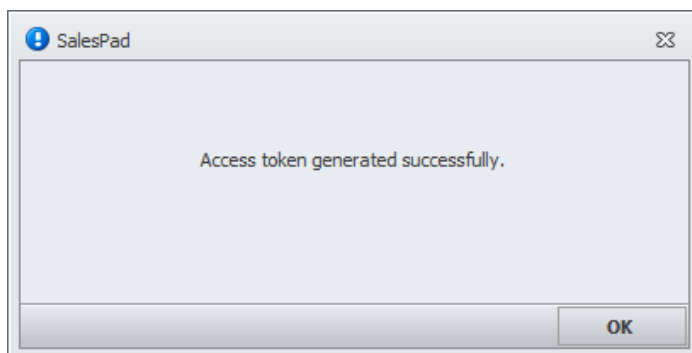
Can View Token Properties - Can view access token properties.

Generate Token

1. To generate a new access token, click the Generate Token button.
2. A New Access Token window will open. Select the endpoint type and click OK to start the token generation process. Note that production and test environments require separate access tokens.

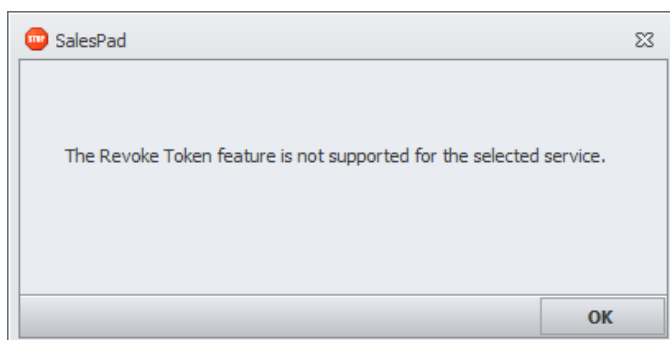


The following message will display if token generation was successful.



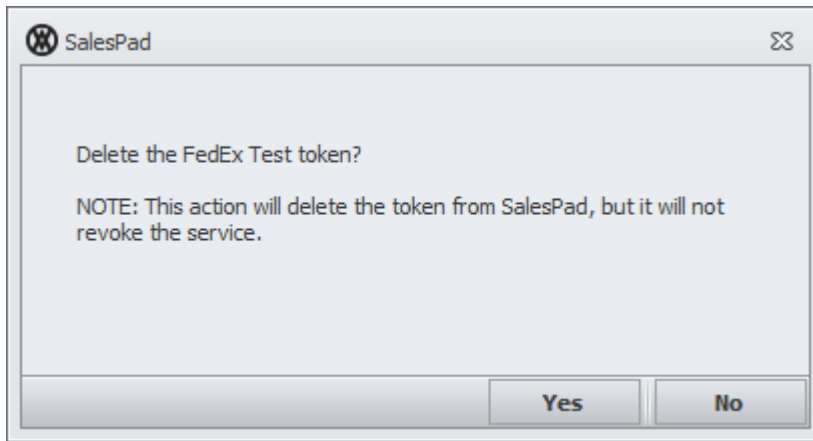
Revoke Token

FedEx access tokens cannot be revoked. The following message will appear if a user attempts to revoke an existing access token.



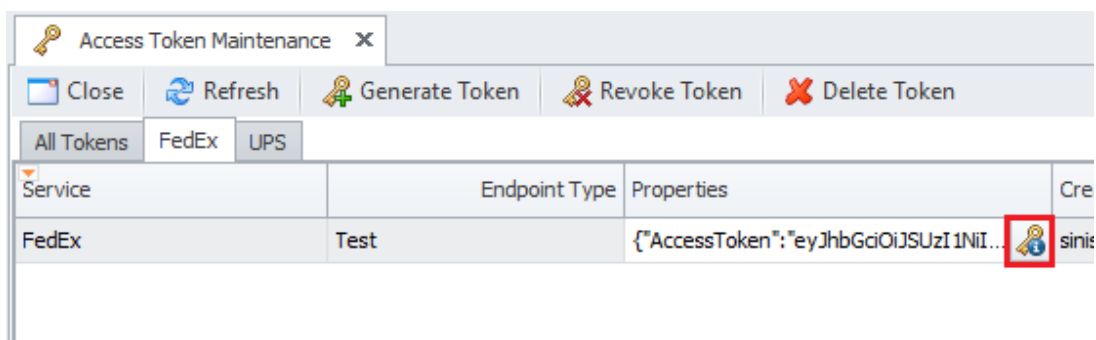
Delete Token

To delete an access token, click the Delete Token button. Click Yes on the following prompt to confirm deletion.

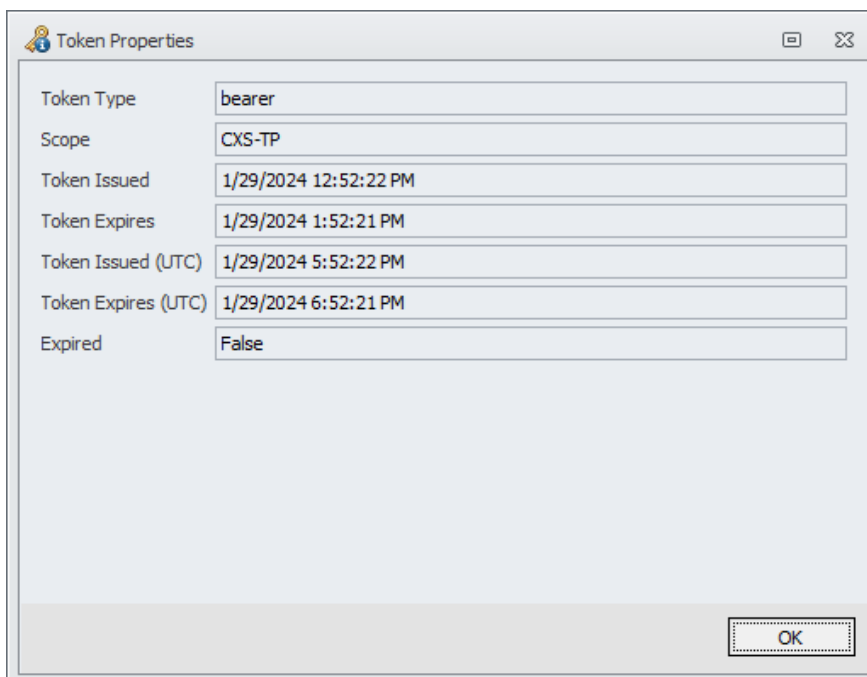


View Token Properties

To view token properties, click the Key Information button.



This will open the Token Properties window which displays various token properties, such as issue date, expiration date, and status.



Access Token

The access token must be refreshed every hour for SalesPad to continue interacting with the FedEx REST API. SalesPad will refresh this token automatically when making an API call. Further action from the user is not required.

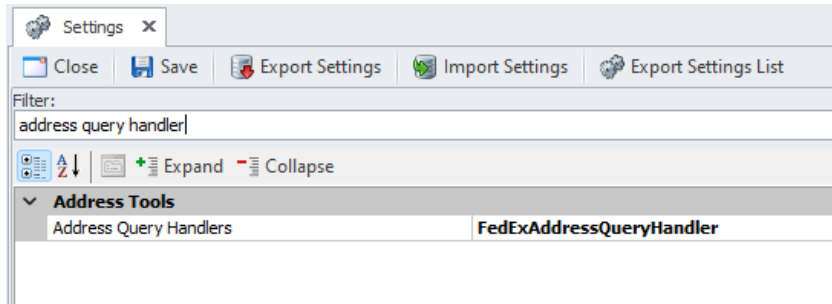
Address Validation

Overview

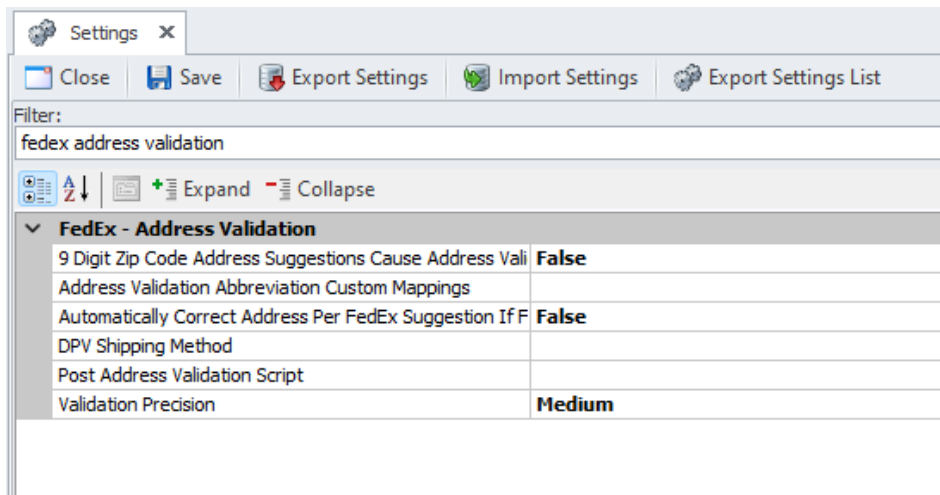
Address validation is part of the SalesPad.Module.FedEx module. This module replaces the legacy SalesPad.Module.FedExAddressValidation module.

Settings

Go to Settings (Modules -> System -> Settings). Set the *Address Query Handlers* setting to “FedExAddressQueryHandler”.



Filter to “FedEx” and configure the following settings.



9 Digit Zip Code Address Suggestions Cause Address Validation Failure - If false, will not flag the address as invalid as long as the first 5 digits of the zip code match for US addresses. Defaults to false.

Address Validation Abbreviation Custom Mappings - Abbreviation mappings that can be applied to the addresses being validated to determine whether suggested addresses returned by the FedEx Address Validation are equal to the provided address.

Automatically Correct Address Per FedEx Suggestion If FedEx Response Is Successful - If true, when submitting an address to the FedEx Address Validation service, compare the submitted address against the FedEx Address Validation service's effective address and if the address line, city, state, or zip are not the same then apply the effective address values to the submitted address. Otherwise, alert the user of the incorrect values. Defaults to false.

DPV Shipping Method - DPV (Delivery Point Validation) indicates that an address can receive mail. When this setting is filled in, an address that has a valid DPV will have this shipping

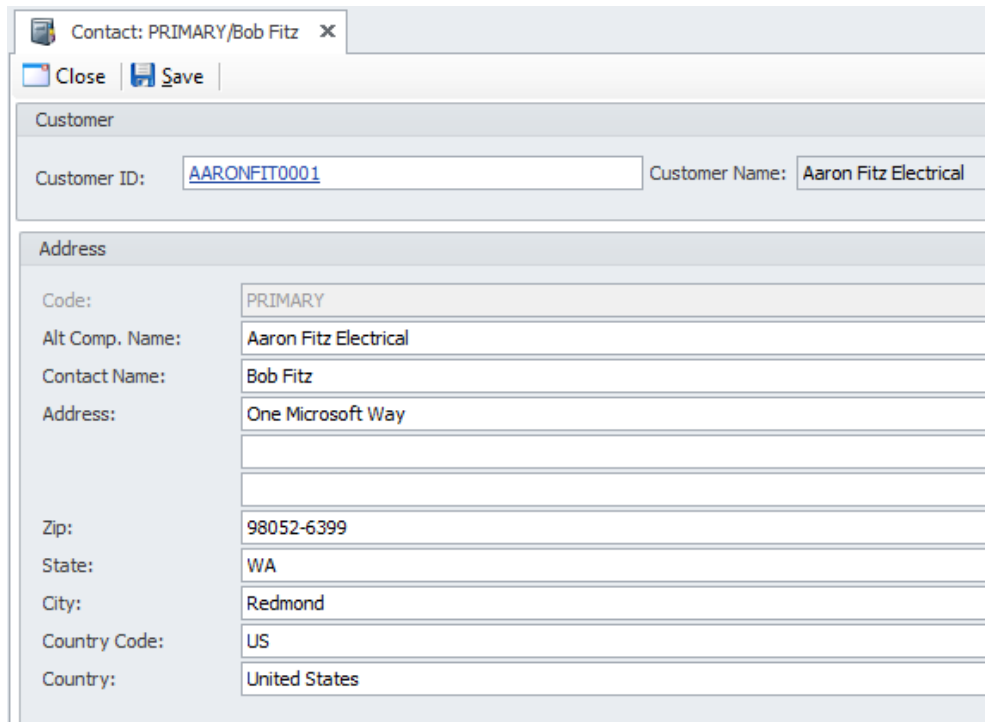
method set.

Post Address Validation Script - C# script that executes after address validation.

Validation Precision - Determines how precise the address validation should be. Exact means the entire address needs to be matched by FedEx, Medium means it will validate the street/city combination but not necessarily the house number.

Customer Address Card

1. Navigate to the Customer Address Card.



Customer

Customer ID: Customer Name:

Address

Code:

Alt Comp. Name:

Contact Name:

Address:

Zip:

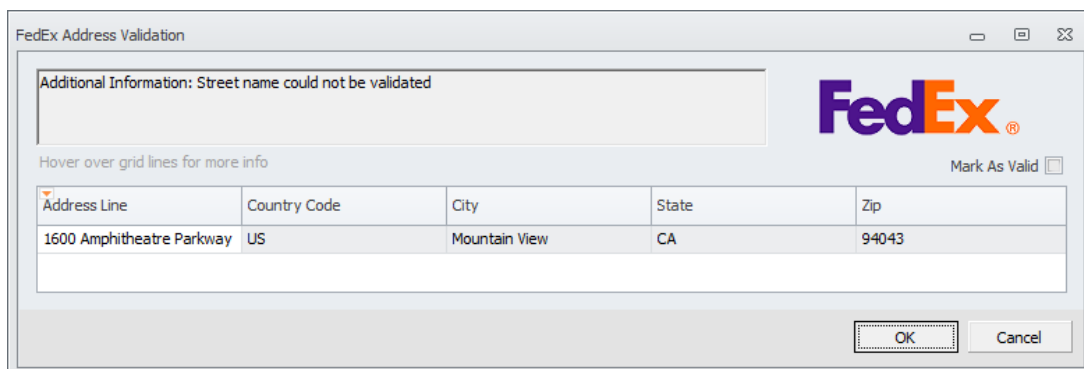
State:

City:

Country Code:

Country:

2. Click the Save button when the customer address is ready to be saved and validated. If an address is ambiguous, SalesPad will open the address validation window and allow the user to review the results.



FedEx Address Validation

Additional Information: Street name could not be validated

Hover over grid lines for more info

Address Line	Country Code	City	State	Zip
1600 Amphitheatre Parkway	US	Mountain View	CA	94043

Mark As Valid

OK Cancel

NOTE: if the Automatically Correct Address Per FedEx Suggestion If FedEx Response Is Successful setting is enabled, SalesPad will automatically correct the address and will not show the validation prompt.

Sales Document Entry Addresses

1. Navigate to the Addresses formlet on the sales document entry screen.
2. Click the Save button when the sales document is ready to be saved and have its Ship To address validated. If an address is ambiguous, SalesPad will open the address validation window and allow the user to review the results.

Freight Calculator

Overview

The freight calculator is part of the SalesPad.Module.ShippingV2 module. This module replaces the legacy SalesPad.Module.Shipping module.

Security

Go to the Security Editor (Modules -> System -> Security Editor) and make sure that *Sales Document Freight Rates* and *Sales Document Simple Freight Rates* are enabled.

The screenshot shows the Security Editor interface. At the top, there are buttons for 'Select All', 'Select None', and 'Copy From...'. Below this is a table with columns 'Acce...' and 'Name'. The table contains three rows: 'freight rates', 'Sales Document Freight Rates* (Beta)', and 'Sales Document Simple Freight Rates*'. The first row has a yellow icon, and the second and third rows have checked checkboxes. Below the table is a search filter: '<input checked="" type="checkbox" /> Name Contains freight rates'. Below the table is a section titled 'Sales Document Freight Rates'. At the bottom, there is a 'Misc' section with a table of settings:

Misc	
Custom Shipper Country	US
Custom Shipper State/Province	
Custom Shipper Zip Code	
Default Shipping Rate Restriction	
Import Single Package Script	
Prompt For Large Queries	True
Ship From Custom Location	True
Shipping Warehouses	
Use Label To Update Shipping Method	False

Security

Select All
 Select None

Acce...	Name
<input type="checkbox"/>	freight rates
<input checked="" type="checkbox"/>	Sales Document Freight Rates* (Beta)
<input checked="" type="checkbox"/>	Sales Document Simple Freight Rates*

Name Contains freight rates

Sales Document Simple Freight Rates
 An automated Freight Calculator. Automatically pulls package dimensions and weight from UDFs, and

Misc	
Cheapest Rate Line Color	
Custom Shipper Country	US
Custom Shipper State/Province	
Custom Shipper Zip Code	
Default Shipping Rate Restriction	
Import Single Package Script	
Package Dimension Units	IN
Package Weight Units	LB
Prompt For Large Queries	True
Run On Load	False
Ship From Custom Location	True
Shipping Warehouses	
Use Label To Update Shipping Method	False

NOTE: Sales Document Freight Rates has the same functionality as the Sales Document Freight Calculator, and the Sales Document Simple Freight Rates has the same functionality as the Sales Document Simple Freight Calculator from the legacy Shipping module.

Settings

Go to Settings (Modules -> System -> Settings) and filter to "Shipping Tools V2", then configure the following settings.

Shipping Tools V2 - FedEx	
FedEx Max Weight	0
FedEx Pickup Type	Use Scheduled Pickup
Use Account Rates	False
Shipping Tools V2 - Misc	
Customer Address Residential UDF	
Display Shipping Request Input Values	False
Item Number Exclusion	
Item Package Height Smart Field	
Item Package Insured Amount Smart Field	Extended_Price
Item Package Length Smart Field	
Item Package Weight Smart Field	Item_Shipping_Weight
Item Package Width Smart Field	
Location Upcharge Amount	0
Shipping Carrier Query Handlers	FedExQueryHandler
Shipping Restriction Smart Field	
Single Document Package	False
Single Document Package Height	0
Single Document Package Length	0
Single Document Package Width	0
Upcharge Locations	
Upcharge Percent	0

FedEx Max Weight - Max weight allowed for calculating FedEx rates. Defaults to 0.

FedEx Pickup Type - Specify a pickup type for FedEx. Defaults to 'Use Scheduled Pickup'.

Use Account Rates - Use 'Account Rates' as opposed to 'List Rates' from the FedEx API. Defaults to false.

Shipping Carrier Query Handlers - Specify the carriers that can be used. Set this setting to 'FedExQueryHandler' to obtain FedEx rates.

Freight Rates

The Freight Rates tab (formerly Freight Calculator) is used to obtain FedEx shipping rates.

The screenshot shows the 'Freight Rates (Beta)' window with several tabs: Interactions, Shipment, Manufacturing Orders, Resources, Service Transfers, Time In Queue, Simple Freight Rates, and Freight Rates (Beta). The 'Freight Rates (Beta)' tab is active, displaying a toolbar with icons for Save Packages, Delete Packages, Import Package per Line, Import Custom Package, Clear Rates, Get Rates, and Set Freight. Below the toolbar, there are sections for 'General Options' (Carriers: FedEx, UPS) and 'Fed Ex Options' (Saturday Delivery, Large Container). The main area contains two tables. The first table lists packages with columns for Package ID, Description, Length, Width, Height, Weight, Insured Amount, and Restriction. The second table lists shipping rates with columns for Package ID, Total Amount, Description, Label, Speed, Amount, Insured Cost, and Availability.

Package ID	Description	Length	Width	Height	Weight	Insured Amount	Restriction
Click here to add a new package							
4.00	Audio System	1.00	1.00	1.00	5.00	39.95	
5.00	Capacitor	2.00	2.00	2.00	15.00	9.95	
6.00	Green Phone	3.00	3.00	3.00	5.00	59.95	

Package ID	Total Amount	Description	Label	Speed	Amount	Insured Cost	Availability