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FedEx Address Validation REST API Configuration

Megan De Freitas - 2025-06-12 - 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 <u>FedEx Web Services</u> 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 <u>FedEx Developer Portal</u>.

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.

\sim	FedEx - General	
	Endpoint Type	Test
\sim	FedEx - Production	
	API Key	l780b9cea17d834481b384619bf9306aaf
	API Secret Key	*****
	FedEx Account Number	
\sim	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.

Token Ma	aintena	nce ×				
ಿ Ref	fresh	🖧 Genera	te Token	ୡ Revoke Token	样 Delete Token	
FedEx	UPS		_			
					E	Endpoint
			Test			
	Token Ma	Token Maintenar Refresh FedEx UPS	Token Maintenance X Refresh A Genera FedEx UPS	Token Maintenance X Refresh & Generate Token FedEx UPS Test	Token Maintenance X Refresh Generate Token Revoke Token FedEx UPS Test	Token Maintenance × Refresh Generate Token FedEx UPS IPSI Test

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.

S	curity	
•	🕈 Select All 🛛 💻 Select None 📄 Copy From	
Ăc	ce Name	
	RBc access token maintenance	
	Access Token Maintenance*	
×	Image: Name Contains access token maintenance Image: Name	
Ac	ess Token Maintenance	
ř	MISC Can Delete Tokens	True
	Can Generate Tokens	True
	Can Revoke Tokens	True
	Can View Token Properties	True

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.

A New Access To	oken		23
Service	FedEx		-
Endpoint Type	Test		-
	ОК С	ancel	

The following message will display if token generation was successful.

3 SalesPad		23
	Access token generated successfully.	
		ОК

Revoke Token

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

SalesPad	23
The Revoke Token feature is not supported for the selected s	service,
	ОК

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.

Access	Token Ma	aintenar	nce ×						
Close	ಿ Ref	resh	🚑 Ge	enerate Token	🚕 Re	voke Token	💢 Delete Token		
All Tokens	FedEx	UPS							
Service				Endpo	pint Type	Properties		O	re
FedEx			Test			{"AccessToke	n": "eyJhbGciOiJSUzI 1NiI.	🔏 si	ni

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

Token Type bearer Scope CXS-TP Token Issued 1/29/2024 12:52:22 PM Token Expires 1/29/2024 1:52:21 PM	3
Scope CXS-TP Token Issued 1/29/2024 12:52:22 PM Token Expires 1/29/2024 1:52:21 PM]
Token Issued 1/29/2024 12:52:22 PM Token Expires 1/29/2024 1:52:21 PM]
Token Expires 1/29/2024 1:52:21 PM]
Token Issued (UTC) 1/29/2024 5:52:22 PM]
Token Expires (UTC) 1/29/2024 6:52:21 PM	
Expired False	
OK	

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.

P Setting	js X				
Close	📙 Sav	re (📕 Export Settings	阙 Import Settings	Export Settings List
-ilter:					
fedex addre	ss validatio	n			
8 ∎ 2 ↓ ∎	🗧 📲 Exp	pand	-∃ Collapse		
✓ FedEx	- Address	s Valid	lation		
9 Digit Z	ip Code A	ddress	Suggestions Cause A	ddress Vali False	
Address	Validation	Abbre	viation Custom Mappi	ngs	
Automa	tically Corr	ect Ad	ldress Per FedEx Sugg	estion If F False	
DPV Shi	pping Meth	od			
Post Ad	dress Valid	lation S	Script		
Validatio	on Precision	n		Medium	

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.

Contact: PRIMARY/E	Bob Fitz 🗙
Close 🛛 🛃 Save	
Customer	
Customer ID:	NFIT0001 Customer Name: Aaron Fitz Electrical
Address	
Code:	PRIMARY
Alt Comp. Name:	Aaron Fitz Electrical
Contact Name:	Bob Fitz
Address:	One Microsoft Way
Zip:	98052-6399
State:	WA
City:	Redmond
Country Code:	US
Country:	United States

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.

dditional Information: Stree	t name could not be vali	dated		FedEx ®
lover over grid lines for more	e info			Mark As Valid
Address Line	Country Code	City	State	Zip
1600 Amphitheatre Parkway	US	Mountain View	CA	94043

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.



5							
	ecurity						
•	🖊 Select All 🛛 💻 Select None 📄 Copy From.						
Ă	cce Name						
	REc freight rates						
	Z Sales Document Freight Rates* (Beta)						
	7 Sales Document Simple Freight Rates*						
ж	 ✓ Name Contains freight rates 						
Sal	les Document Simple Freight Rates						
An	automated Freight Calculator. Automatically pulls pad	kage dimensions and weight from UDFs, and					
~	Misc						
~	Misc Cheapest Rate Line Color						
~	Misc Cheapest Rate Line Color Custom Shipper Country	US					
~	Misc Cheapest Rate Line Color Custom Shipper Country Custom Shipper State/Province	US					
~	Misc Cheapest Rate Line Color Custom Shipper Country Custom Shipper State/Province Custom Shipper Zip Code	US					
~	Misc Cheapest Rate Line Color Custom Shipper Country Custom Shipper State/Province Custom Shipper Zip Code Default Shipping Rate Restriction	US					
~	Misc Cheapest Rate Line Color Custom Shipper Country Custom Shipper State/Province Custom Shipper Zip Code Default Shipping Rate Restriction Import Single Package Script	US					
~	Misc Cheapest Rate Line Color Custom Shipper Country Custom Shipper State/Province Custom Shipper Zip Code Default Shipping Rate Restriction Import Single Package Script Package Dimension Units	US					
~	Misc Cheapest Rate Line Color Custom Shipper Country Custom Shipper State/Province Custom Shipper Zip Code Default Shipping Rate Restriction Import Single Package Script Package Dimension Units Package Weight Units	US IN LB					
~	Misc Cheapest Rate Line Color Custom Shipper Country Custom Shipper State/Province Custom Shipper Zip Code Default Shipping Rate Restriction Import Single Package Script Package Dimension Units Package Weight Units Prompt For Large Queries	US IN LB True					
~	Misc Cheapest Rate Line Color Custom Shipper Country Custom Shipper State/Province Custom Shipper Zip Code Default Shipping Rate Restriction Import Single Package Script Package Dimension Units Package Weight Units Prompt For Large Queries Run On Load	US US IN LB True False					
~	Misc Cheapest Rate Line Color Custom Shipper Country Custom Shipper State/Province Custom Shipper Zip Code Default Shipping Rate Restriction Import Single Package Script Package Dimension Units Package Weight Units Prompt For Large Queries Run On Load Ship From Custom Location	US US IN LB True False True					

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.

False

Settings

Use Label To Update Shipping Method

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.

General Op	ptions		F	Fed Ex Options UPS Options USPS Options				
Carriers FedEx, UPS Saturday Delivery Large Container								
Packa	age 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	
•					1			
Packa	age ID	Total Amount	Description	Label	Speed	Amount	Insured Cost	Availability