



# UPS Address Validation REST API Configuration

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## Overview

UPS has deprecated access key authentication in favor of an OAuth 2.0 security model and REST API. Beginning Aug 5, 2024, access keys will no longer be supported for authentication to any UPS APIs. After this date, all integrations must utilize OAuth 2.0 authentication and REST API to continue to transact with UPS services.

For more information, please see UPS's [Access Key to OAuth 2.0 Migration Guide](#).

## Required Modules

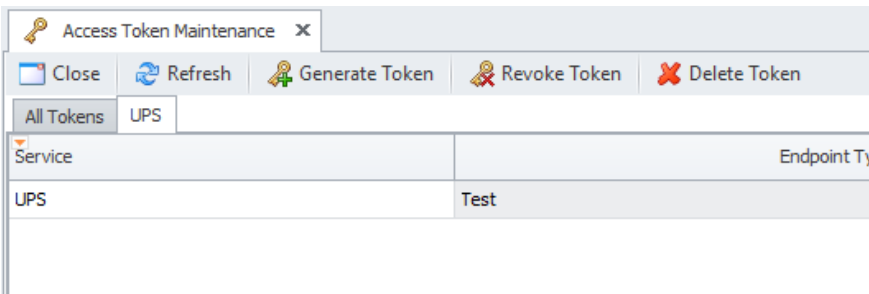
The following modules are required to use the new UPS REST API:

Module	Replaces	Requires
SalesPad.Module.UPS	SalesPad.Module.UPSValidation	N/A
SalesPad.Module.ShippingV2	SalesPad.Module.Shipping	SalesPad.Module.UPS

## Access Token Maintenance

### Overview

The Access Token Maintenance screen allows you to generate new access tokens for the UPS 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.

The screenshot shows a 'Security' window with a toolbar containing 'Select All' (with a green checkmark), 'Select None' (with a blue square), and 'Copy From...' (with a document icon). Below the toolbar is a table with columns 'Acce...' and 'Name'. The first row has a green icon and the text 'access token maintenance'. Below this is a checkbox labeled 'Access Token Maintenance\*' which is checked. At the bottom, there is a search bar with a magnifying glass icon, a checkmark, and the text 'Name Contains access token maintenance'. Below the search bar is a section titled 'Access Token Maintenance' which contains a table with the following data:

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.

The screenshot shows a 'New Access Token' dialog box. It has two dropdown menus: 'Service' with 'UPS' selected and 'Endpoint Type' with 'Test' selected. At the bottom right, there are 'OK' and 'Cancel' buttons.

3. The UPS login screen will open and request that you log in using your UPS credentials. Enter your UPS username and password and click the Log In button to continue.

UPS Login

[https://www.ups.com/asso/signin?client\\_id=c5t5x4GyzsFlg6eHfcq9vpOcQt35eOTfv7d2lY2gosBXn7oi&redirect\\_uri=https://127.0.0.1/upscallback&response\\_t](https://www.ups.com/asso/signin?client_id=c5t5x4GyzsFlg6eHfcq9vpOcQt35eOTfv7d2lY2gosBXn7oi&redirect_uri=https://127.0.0.1/upscallback&response_t)

**ups**

## Log In

Don't have a profile? [Sign up](#)

Email or Username

☐ By continuing, I agree to the [UPS Technology Agreement](#) and authorize **SalesPad** to access data associated with my UPS.com username listed above, including UPS shipping account numbers, contact information, rates, and package tracking status.

**Continue >** [Forgot Username/Password](#)

Feedback

A prompt should display that the token was generated successfully.

**NOTE:** If there are any issues with the built-in UPS login, a manual login method is available. Hold the ALT key when clicking the Generate Token button and a separate browser window will open. After logging in, copy the resulting URL from the browser's address bar into the prompt in SalesPad and click OK. SalesPad will parse out the authorization code and generate an access token.

**Retrieve Authorization Code**

After successful UPS web login, copy and paste the resulting URL from your browser's address bar here and click OK to continue:

**OK** **Cancel**

### Revoke Token

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

**SalesPad**

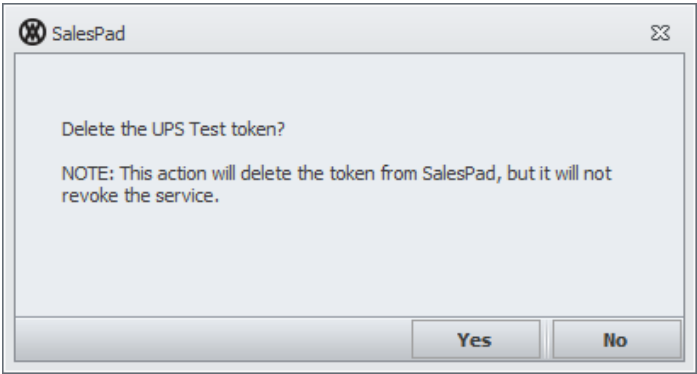
The Revoke Token feature is not supported for the selected service.

**OK**

### Delete Token

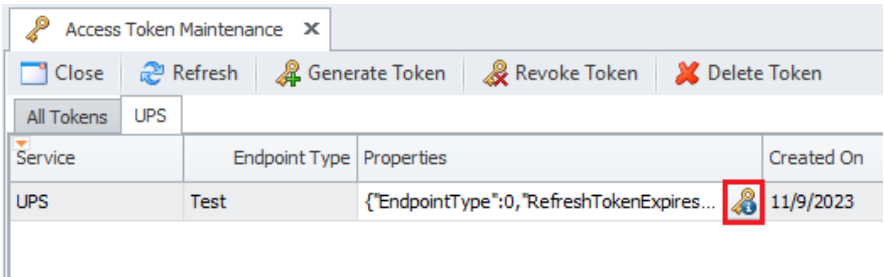
To delete an access token, click the Delete Token button. Click Yes on the following prompt

to confirm deletion.

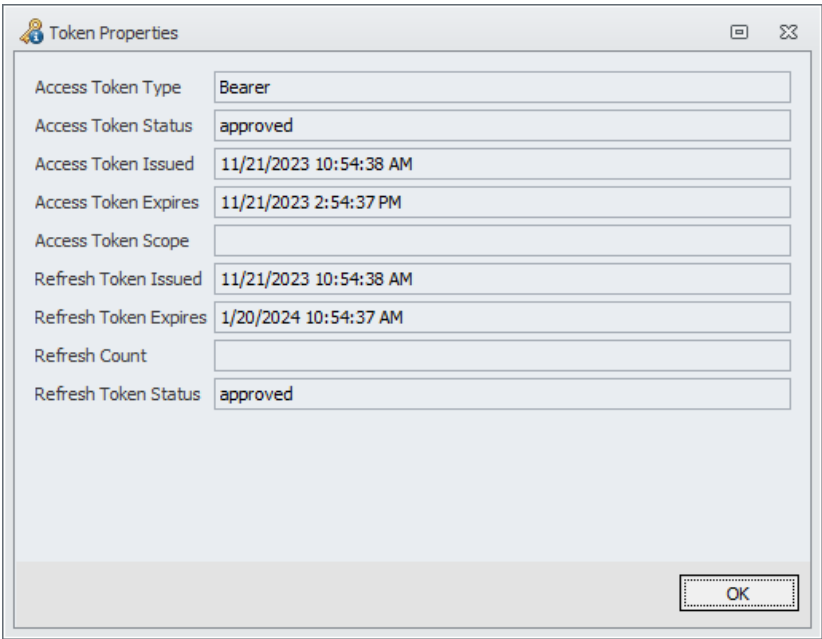


View Token Properties

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.

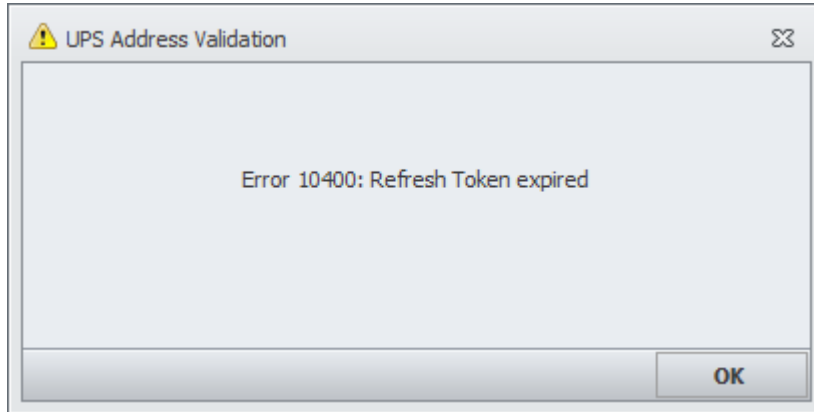


Access Token

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

## Refresh Token

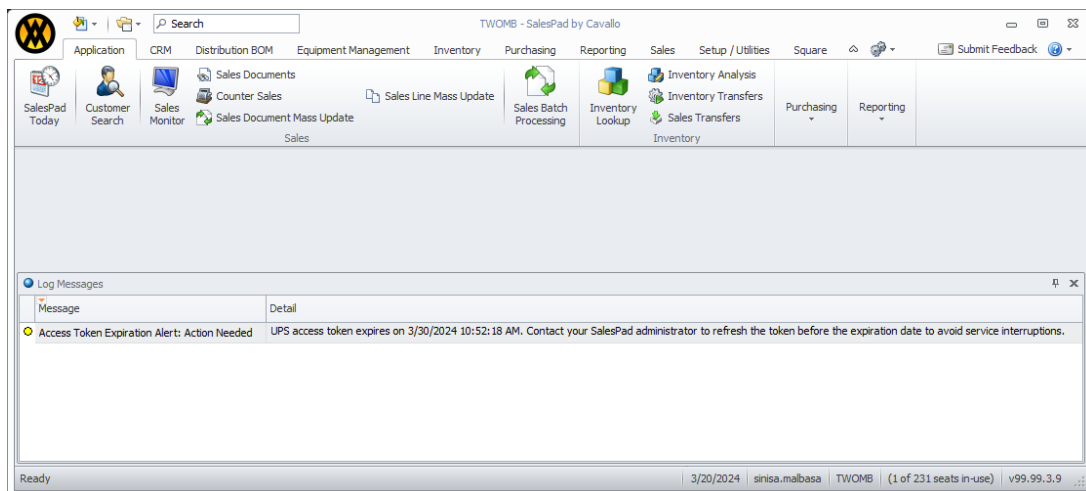
The refresh token is returned when a new access token is generated. It is used to refresh the access token. Unlike the access token, **the refresh token lasts three months and must be refreshed manually**. A refresh token expired error will appear if a transaction is attempted to be processed with an expired refresh token.



A new refresh token can be obtained by generating a new access token after the refresh token expires.

## Token Expiration Reminder

When a user logs into SalesPad, and a UPS access token will expire in the next 7 days or is already expired, then an alert will appear in the Log Messages. This will display information on whether the token is already expired, or when it expires, in order to notify that the manual token refresh step must be handled soon.



Note that token expiration reminders are available as of SalesPad 5.4.6.

# Address Validation

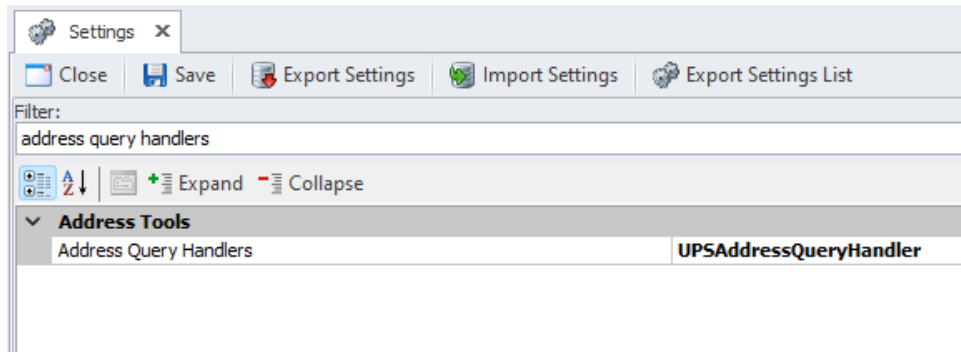
## Overview

Address validation is part of the SalesPad.Module.UPS module. This module replaces the legacy SalesPad.Module.UPSValidation module.

## Settings

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

“UPSAddressQueryHandler”.



Filter to “UPS” and configure the following settings.

UPS	
Automatically Apply Address Recommendations In Workflow	True
Endpoint Type	Production
UPS Shipper Number	

Automatically Apply Address Recommendations In Workflow - Specify whether to automatically apply changes in workflow when UPS address validation responds with a valid recommendation.

Endpoint Type - Set the endpoint type to 'Test' or 'Production.'

UPS Shipper Number - A UPS account number is a six-digit number that is unique to each individual/corporation that holds an account with UPS.

#### Customer Address Card

1. Navigate to the Customer Address Card.

The screenshot shows a 'Customer Address Card' form. At the top, there's a tab labeled 'Contact: PRIMARY/Bob Fitz'. Below the tab are 'Close' and 'Save' buttons. The form is divided into two main sections: 'Customer' and 'Address'. The 'Customer' section has fields for 'Customer ID' (AARONFIT0001) and 'Customer Name' (Aaron Fitz Electrical). The 'Address' section has fields for '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), and '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 allow the user to choose which one they would like to use.

Validate Address

Close | Reset Suggestion

Original Address:	Suggested Address:
Address: 1600 Amphitheatre Parkway	Address: 1600 AMPHITHEATRE PKWY
City: Mountain View	City: MOUNTAIN VIEW
State: CA	State: CA
Zip: 94043	Zip: 94043-1351
Country Code: US	Country Code: US
Classification:	Classification: Commercial
Use Original	Use Suggestion
Cancel	

### 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 allow the user to choose which one they would like to use.

## 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.

Security

☒ Select All
 ☐ Select None

Acce...	Name
	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 Freight Rates

<b>Misc</b>	
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
	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

<b>Misc</b>	
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.

<b>Shipping Tools V2 - Misc</b>	
Customer Address Residential UDF	
Display Shipping Request Input Values	<b>False</b>
Item Number Exclusion	
Item Package Height Smart Field	
Item Package Insured Amount Smart Field	<b>Extended_Price</b>
Item Package Length Smart Field	
Item Package Weight Smart Field	<b>Item_Shipping_Weight</b>
Item Package Width Smart Field	
Location Upcharge Amount	<b>0</b>
Shipping Carrier Query Handlers	<b>UPSQueryHandler</b>
Shipping Restriction Smart Field	
Single Document Package	<b>False</b>
Single Document Package Height	<b>0</b>
Single Document Package Length	<b>0</b>
Single Document Package Width	<b>0</b>
Upcharge Locations	
Upcharge Percent	<b>0</b>
<b>Shipping Tools V2 - UPS</b>	
Calculate UPS Time In Transit	<b>True</b>
UPS Max Weight	<b>150</b>
UPS Pickup Type	<b>Daily Pickup</b>
Use Negotiated Rates	<b>False</b>

*UPS Max Weight* - Max weight allowed for calculating UPS rates. Defaults to 150.

*UPS Pickup Type* - Specify a pickup type for UPS. Defaults to ‘Daily Pickup’.

*Use Negotiated Rates* - Use 'Negotiated Rates' as opposed to 'Published Rates' from the UPS API. Defaults to false.

*Shipping Carrier Query Handlers* - Specify the carriers that can be used. Set this setting to ‘UPSQueryHandler’ to obtain UPS rates.