Merchandise Return Bulk Label API

USPS Web Tools™

Application Programming Interface

User's Guide

Document Version 1.3 (01/17/2016)

UNITED STATES POSTAL SERVICE™

Contents

Introduction to Web Tools

This document contains a Reference Guide to the Merchandise Return Bulk Label API. See the Developer's Guide to learn the administrative process for gaining access to the Web Tools APIs as well as the basic mechanism for calling the APIs and processing the results. The Developer's Guide also contains information on testing and trouble-shooting.

Note: The Request Parameter sections present the XML input tags for generating live requests along with the restrictions on the values allowed. An error message will be returned if an incorrect value is entered. Also, be aware of the maximum character amounts allowed for some tags. If the user enters more than those amounts, an error will not be generated. **The Web Tool will simply pass in the characters up to the maximum amount allowed and disregard the rest.** This is important since the resulting value could prevent a correct response.

When building the XML request, pay particular attention to the **order and case** for tags. An error message will be returned if an incorrect value is entered. Remember that all data and attribute values in this document are for illustration purposes and are to be replaced by your actual values.

Before you get started:

For information on registering and getting started with Web Tools, please refer to the Step-By-Step guide found on the Technical Documentation section of the Web Tools page on usps.com/webtools.

Label APIs require extra permissions; contact the Internet Customer Care Center uspstechnicalsupport@mailps.custhelp.com to request access. Indicate "Label API Access" in the subject line and explain in the body of the email:

1. How the shipper intends to purchase and apply postage to the labels
2. If the label image provided by the API will be modified in any way by the shipper or the software

USPS Merchandise Return Bulk Label API

Overview

The Merchandise Return Bulk Label Web Tool lets customers to receive Merchandise Return labels in bulk. The Merchandise Return Bulk Label API returns Merchandise Return labels that are requested by the client.

API Signature

Scheme	Host	Path	API	XML
https://	secure.shippingapis.com	/ShippingAPI.dll	?API=MerchReturnV4Bulk	&XML=(see below)
https://	secure.shippingapis.com	/ShippingAPI.dll	?API=MerchReturnV4BulkCertify	&XML=(see below)

Note: The "MerchReturnV4BulkCertify" API signature is for testing purposes and will not generate usable labels and barcodes.

Tag Descriptions

Tag Name	Occurs	Description	Type	Validation
EMRSV4.0BulkRequest	required once	Used with API=MerchReturnV4Bulk	(group)	
EMRSV4.0BulkRequest / @USERID	required	This attribute specifies your Web Tools ID. See the Developer's Guide for information on obtaining your USERID.	NMTOKEN	
EMRSV4.0BulkRequest / Option	required once	Reserved for future use	string	default=LEFTWINDOW enumerations= RIGHTWINDOW LEFTWINDOW
EMRSV4.0BulkRequest / Revision	optional repeating up to 1 times	This is for versioning of the API's and for triggering response tags for future versions. In this API use a value of 1 to trigger new functionality. For Example: 1	string	minLength=0 pattern=\d{1} pattern=
EMRSV4.0BulkRequest / LabelCount	Required Once	Number of labels to produce	string	Min = 1 Max = 30
EMRSV4.0BulkRequest / ImageParameters	Optional	Group	(group)	
EMRSV4.0BulkRequest / ImageParameter	Optional	Image options	String	Enumeration = 4X6LabelP Enumeration = 2UP
EMRSV4.0BulkRequest / RetailerName	required once	Name of Retailer receiving the return package.	string	minLength=1 maxLength=50
EMRSV4.0BulkRequest / RetailerAddress	required once	Address of Retailer receiving the return package.	string	minLength=1 maxLength=50
EMRSV4.0BulkRequest / PermitNumber	required once	Permit number provided to Retailer by the local post office.	string	pattern=\d+

Tag Name	Occurs	Description	Type	Validation
EMRSV4.0BulkRequest / PermitIssuingPOCity	required once	Post Office City that issued the permit.	string	minLength=1 maxLength=15
EMRSV4.0BulkRequest / PermitIssuingPOState	required once	Post Office State that issued the permit.	string	pattern=\w{2} pattern= minLength=2 maxLength=2
EMRSV4.0BulkRequest / PermitIssuingPOZip5	required once	ZIP Code of Post Office that issued the permit.	string	pattern=\d{5}
EMRSV4.0BulkRequest / PDUFirmName	optional	Postage Delivery Unit Name	string	minLength=0 maxLength=50
EMRSV4.0BulkRequest / PDUPOBox	required once	Postage Delivery Unit Post Office Box or Street Address.	string	minLength=1 maxLength=24
EMRSV4.0BulkRequest / PDUCity	required once	Postage Delivery Unit City. Supply either City and State or PO Box with ZIP Code.	string	minLength=0 maxLength=20
EMRSV4.0BulkRequest / PDUState	required once	Postage Delivery Unit State. Supply either City and State or PO Box with ZIP Code.	string	pattern=\w{2} pattern= minLength=2 maxLength=2
EMRSV4.0BulkRequest / PDUZip5	required once	Postage Delivery Unit ZIP Code. Supply either City and State or PO Box with ZIP Code.	string	pattern=\d{5} pattern=
EMRSV4.0BulkRequest / PDUZip4	required once	Postage Delivery Unit ZIP+4 Code.	string	pattern=\d{4} pattern=
EMRSV4.0BulkRequest / ServiceType	required once	Enter one of the valid entries: "Priority" (for Priority Mail), "First Class Package Service", "Ground".	string	enumeration= Priority First Class Package Service Ground
EMRSV4.0BulkRequest / DeliveryConfirmation	required once	Enter "true" for Delivery Confirmation.	boolean	
EMRSV4.0BulkRequest / InsuranceValue	required once	Numeric currency with dollars and cents (no dollar sign). If insurance is not required, leave value blank. A value of "0.00" will result in an error being returned.	decimal string	minExclusive=0.0 maxLength=0
EMRSV4.0BulkRequest / WeightInPounds	required once	Estimated weight is allowed. First Class Mail cannot exceed 13 ounces.	integer	minInclusive=0 maxInclusive=70
EMRSV4.0BulkRequest / WeightInOunces	required once	Value must be numeric.	integer	minInclusive=0 maxInclusive=1120

Tag Name	Occurs	Description	Type	Validation
EMRSV4.0BulkRequest / ImageType	required once	One of the valid entries: "PDF","TIF". (Note to BSA reviewing this. TIF is a valid type yet was missing. I added it. Was it missing for a reason? Delete comment when finished.)	string	enumeration=PDF enumeration=TIF
EMRSV4.0BulkRequest / SenderName	optional	The name of the person or company sending the email. Note: no email is returned when generating a Sample label request.	string	
EMRSV4.0BulkRequest / SenderEMail	optional	E-mail address of sender. Valid e-mail addresses must be used. Note: No e-mail is returned when generating a Sample label request.	string	pattern=([\w\-\.]+)@(([\w-]+\.)+)[a-zA-Z]{2,4} pattern=
EMRSV4.0BulkRequest / RecipientName	optional	The name of the person or company receiving the email. Note: no email is returned when generating a Sample label request.	string	
EMRSV4.0BulkRequest / RecipientEMail	optional	E-mail address of recipient. Valid e-mail addresses must be used. Note: No e-mail is returned when generating a Sample label request.	string	pattern=([\w\-\.]+)@(([\w-]+\.)+)[a-zA-Z]{2,4} pattern=
EMRSV4.0BulkRequest / AllowNonCleansedDestAddr	optional	Value of 'true' bypasses destination address cleansing. Non-cleansed destination addresses may result in undeliverable packages.	boolean	default=false
EMRSV4.0BulkRequest / AllowNonCleansedCustAddr	optional	Value of 'true' bypasses customer address cleansing. Non-cleansed customer addresses may result in undeliverable packages.	boolean	default=false
EMRSV4.0BulkRequest / NineDigitRoutingZip	optional	Value of 'true' generates label barcode with nine digit routing zip code.	boolean	default=false
EMRSV4.0BulkRequest	required once		(alias)	

Request Example

```xml
?xml version="1.0" encoding="UTF-8" ?>
MRSV4.0BulkRequest USERID="XXXXXX">
    <Option></Option>
    <LabelCount>3</ LabelCount >
    <ImageParameters>
        <ImageParameter>4X6LabelIP</ ImageParameter >
        <ImageParameter>2UP</ ImageParameter >
    </ ImageParameters >
    <RetailerName>XYZ Corp.</RetailerName>
    <RetailerAddress>123 Main St</RetailerAddress>
    <PermitNumber>293829</PermitNumber>
    <PermitIssuingPOCity>New York</PermitIssuingPOCity>
    <PermitIssuingPOState>NY</PermitIssuingPOState>
    <PermitIssuingPOZip5>10001</PermitIssuingPOZip5>
    <PDUFirmName>PDU Firm Co.</PDUFirmName>
    <PDUPOBox>PO Box 100</PDUPOBox>
    <PDUCity>Wilkes Barre</PDUCity>
    <PDUState>PA</PDUState>
    <PDUZip5>18702</PDUZip5>
    <PDUZip4>1234</PDUZip4>
    <ServiceType>Priority</ServiceType>
    <DeliveryConfirmation>False</DeliveryConfirmation>
    <InsuranceValue />
    <MailingAckPackageID>ID00001</MailingAckPackageID>
    <WeightInPounds>0</WeightInPounds>
    <WeightInOunces>10</WeightInOunces>
    <RMA>RMA 123456</RMA>
    <RMAPICFlag>False</RMAPICFlag>
    <ImageType>TIF</ImageType>
    <RMABarcode>False</RMABarcode>
    </EMRSV4.0BulkRequest>
```

Electronic Merchandise Return Service Bulk Response

Response Parameters

Tag Name	Occurs	Description	Type	Validation
EMRSV4.0BulkResponse	required once		(group)	
EMRSV4.0BulkResponse / MerchandiseReturnLabel	required once	Base64 representation of the label in the form selected (PDF).	base64Binary	
EMRSV4.0BulkResponse / InsuranceCost	required once	Cost of the insurance.	decimal	
EMRSV4.0BulkResponse / PDUFirmName	optional	Postage Delivery Unit Name. Returned if provided in request XML.	string	
EMRSV4.0BulkResponse / PDUPOBox	required once	Postage Delivery Unit Post Office Box or Street Address.	string	
EMRSV4.0BulkResponse / PDUCity	required once	Postage Delivery Unit City. Supply either City and State or PO Box with ZIP Code.	string	
EMRSV4.0BulkResponse / PDUState	required once	Postage Delivery Unit State.	string	
EMRSV4.0BulkResponse / PDUZip5	required once	Postage Delivery ZIP Code.	string	pattern=\d{5}
EMRSV4.0BulkResponse / PDUZip4	required once	Postage Delivery Unit ZIP+4 Code.	string	pattern=\d{4}
EMRSV4.0BulkResponse / Postnet	required once	Postage Delivery Unit text representation of Postnet barcode	string	
EMRSV4.0BulkResponse / LogMessage	optional repeating up to 1 times	A text message for integrators of this API. It may contain additional information about this particular request/response, or general information about the API or Web Tools. In typical implementations, whenever this tag is encountered, the message is written to the console log file for later analysis.	string	
EMRSV4. 0BulkResponse	required once	Used with API=MerchReturnV4Bulk	(alias)	

If an error message is returned, refer to the *Error Responses* section for an explanation.

Error Responses

Error conditions are handled at the main XML document level. When parsing, it is best to check for an error document first before checking for good data. Error documents have the following format:

```
<Error>
      <Number></Number>
      <Source></Source>
      <Description></Description>
      <HelpFile></HelpFile>
      <HelpContext></HelpContext>
</Error>
```

Where:

- Number = the error number generated by the Web Tools server.
- Source = the component and interface that generated the error on the Web Tools server.
- Description = the error description.
- HelpFile = [reserved for future use].
- HelpContext = [reserved for future use].

Errors that are further down in the hierarchy also follow the above format.
An <Error> element may be returned at the top (response) level if there is a problem with the syntax of the request, or if a system error occurs

If you need assistance with an error response, contact the Internet Customer Care Center
uspstechnicalsupport@mailps.custhelp.com.