



Where **End-to-End** E-Commerce Begins™

## RESTful Web Services Reference Guide

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Version 2.1

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### *Document Revision History*

Version	Date	Significant Changes
1.1	12/7/2011	Added deliveries verbiage
1.2	2/21/2012	Updated TrackRequest method for Qualifiers strings and tracking statuses
1.3	4/11/2012	PRN change- Label URL is returned regardless of delivery method
2.0	8/17/2012	Web Services API – REst Revision
2.1	10/1/2012	Corrections

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## 1 Audience, Scope, and Purpose

This document provides the client with the details of REST API methods used by Newgistics to identify key transit events. Clients can use the API information to integrate tracking into their native systems seamlessly.

REST calls can return data in either XML or JSON formats. Both implementations are documented here.

## 2 Web Services Overview

### 2.1 Description

The Newgistics Web Application Services API (Application Programming Interface) allows clients and partners to integrate Newgistics Forward and Reverse (SmartLabel) services into their own applications with a seamless look and feel for the user.

Web Application Services are Internet-enabled APIs that allow clients' current application to perform the following actions from an interface developed with technology such as C# or Java:

- ◆ Generate one or more new graphical return labels
- ◆ Track existing delivery or return packages through the Newgistics handling process
- ◆ Schedule a pickup with the US Postal Service for returns
- ◆ Cancel a previously scheduled pickup with the US Postal Service for returns

#### 2.1.1 Prerequisites

Before the client can make a Web Application Service call, the client's user account must be configured in the Newgistics database.

#### 2.1.2 Result Formats

Results may be returned as either XML or JSON.

### 2.2 REST Method Summary

Some methods require {id} as part of the URL. This is derived from the shipmentId returned from the Create Shipment API. In all Methods the Server Name must be inserted.

Method	URI	Method	Description
<a href="#">Create Shipment</a>	http://{ServerName}/Shipment	POST	Duplicates the functionality of creating a SmartLabel return label while also scheduling a free carrier pickup through USPS.
<a href="#">Cancel Pickup</a>	http://{ServerName}/Shipment/{id}/CancelPickup	POST	Provides a method for cancelling a previously scheduled pickup
<a href="#">Get Label Image</a>	http://{ServerName}/Shipment/{id}/Label/Image	GET	Gets a label image for printing
<a href="#">Get Label PDF</a>	http://{ServerName}/Shipment	GET	Gets a label PDF file for printing

	/ {id} /Label/PDF		
<a href="#">Request Pickup (without Label Creation)</a>	http://{ServerName}/Shipment/{id}/RequestPickup	POST	Provides a method for scheduling a returns pickup with USPS
<a href="#">Tracking</a>	http://{ServerName}/Shipment/Tracking	POST	Provides an API for a web client to track one or more forward or reverse packages in the Newgistics network.

## 2.3 Header Information

One API key is assigned to each merchant. This header is used for all API request types.

Shipment Request Header	
User-Agent	Fiddler
Content-type	application/json; charset=utf-8
x-API-Key	26e94273-d9c5-43f0-a6ca-036048251040

## 3 Create Shipment

### 3.1 Shipment Summary

Method	POST
URI	http://{ServerName}/Shipment

### 3.2 Shipment Request XML/JSON

XML Request	JSON Request
<pre> &lt;ShipmentRequestData   xmlns="http://schemas.datacontract.org/2004/07/Newgistics.WebS   ervices.ShipmentAPI"&gt;   &lt;Transporter&gt;     &lt;Carrier&gt;String content&lt;/Carrier&gt;     &lt;ClassOfService&gt;String content&lt;/ClassOfService&gt;     &lt;TransporterCode&gt;String content&lt;/TransporterCode&gt;   &lt;/Transporter&gt;   &lt;additionalData&gt;     &lt;NameValue&gt;       &lt;Name&gt;String content&lt;/Name&gt;       &lt;Value&gt;String content&lt;/Value&gt;     &lt;/NameValue&gt;     &lt;NameValue&gt;       &lt;Name&gt;String content&lt;/Name&gt;       &lt;Value&gt;String content&lt;/Value&gt;     &lt;/NameValue&gt;   &lt;/additionalData&gt;   &lt;clientServiceFlag&gt;String content&lt;/clientServiceFlag&gt;   &lt;consumer&gt;     &lt;Address&gt;       &lt;Address1&gt;String content&lt;/Address1&gt;       &lt;Address2&gt;String content&lt;/Address2&gt;       &lt;Address3&gt;String content&lt;/Address3&gt;       &lt;City&gt;String content&lt;/City&gt;       &lt;CountryCode&gt;String content&lt;/CountryCode&gt;       &lt;Name&gt;String content&lt;/Name&gt; </pre>	<p>The following is an example request Json body:</p> <pre> {   "Transporter":{     "Carrier":"String content",     "ClassOfService":"String content",     "TransporterCode":"String content"   },   "additionalData":[{     "Name":"String content",     "Value":"String content"   }],   "clientServiceFlag":"String content",   "consumer":{     "Address":{       "Address1":"String content",       "Address2":"String content",       "Address3":"String content",       "City":"String content",       "CountryCode":"String content",       "Name":"String content",       "State":"String content",       "Zip":"String content"     },     "DaytimePhoneNumber":"String content",     "EmailOptInFlag":"String content",     "EveningPhoneNumber":"String content",     "FaxNumber":"String content", </pre>

<pre> &lt;State&gt;String content&lt;/State&gt; &lt;Zip&gt;String content&lt;/Zip&gt; &lt;/Address&gt; &lt;DaytimePhoneNumber&gt;String content&lt;/DaytimePhoneNumber&gt; &lt;EmailOptInFlag&gt;String content&lt;/EmailOptInFlag&gt; &lt;EveningPhoneNumber&gt;String content&lt;/EveningPhoneNumber&gt; &lt;FaxNumber&gt;String content&lt;/FaxNumber&gt; &lt;FirstName&gt;String content&lt;/FirstName&gt; &lt;Honorific&gt;String content&lt;/Honorific&gt; &lt;LastName&gt;String content&lt;/LastName&gt; &lt;MiddleInitial&gt;String content&lt;/MiddleInitial&gt; &lt;PrimaryEmailAddress&gt;String content&lt;/PrimaryEmailAddress&gt; &lt;SecondaryEmailAddress&gt;String content&lt;/SecondaryEmailAddress&gt; &lt;/consumer&gt; &lt;deliveryMethod&gt;String content&lt;/deliveryMethod&gt; &lt;destination&gt; &lt;Address1&gt;String content&lt;/Address1&gt; &lt;Address2&gt;String content&lt;/Address2&gt; &lt;Address3&gt;String content&lt;/Address3&gt; &lt;City&gt;String content&lt;/City&gt; &lt;CountryCode&gt;String content&lt;/CountryCode&gt; &lt;Name&gt;String content&lt;/Name&gt; &lt;State&gt;String content&lt;/State&gt; &lt;Zip&gt;String content&lt;/Zip&gt; &lt;/destination&gt; &lt;dispositionRuleSetId&gt;2147483647&lt;/dispositionRuleSetId&gt; &lt;labelCount&gt;2147483647&lt;/labelCount&gt; &lt;merchantID&gt;String content&lt;/merchantID&gt; &lt;pickupRequest&gt; &lt;packageCount&gt;2147483647&lt;/packageCount&gt; &lt;pickupAfter&gt;1999-05-31T11:20:00&lt;/pickupAfter&gt; &lt;pickupBefore&gt;1999-05-31T11:20:00&lt;/pickupBefore&gt; &lt;pickupDate&gt;1999-05-31T11:20:00&lt;/pickupDate&gt; &lt;remarks&gt;String content&lt;/remarks&gt; &lt;totalWeight&gt;12678967.543233&lt;/totalWeight&gt; &lt;/pickupRequest&gt; &lt;returnId&gt;String content&lt;/returnId&gt; &lt;userType&gt;String content&lt;/userType&gt; </pre>	<pre> "FirstName": "String content", "Honorific": "String content", "LastName": "String content", "MiddleInitial": "String content", "PrimaryEmailAddress": "String content", "SecondaryEmailAddress": "String content" }, "deliveryMethod": "String content", "destination": {   "Address1": "String content",   "Address2": "String content",   "Address3": "String content",   "City": "String content",   "CountryCode": "String content",   "Name": "String content",   "State": "String content",   "Zip": "String content" }, "dispositionRuleSetId": 2147483647, "labelCount": 2147483647, "merchantID": "String content", "pickupRequest": {   "packageCount": 2147483647,   "pickupAfter": "\Date(928167600000-0500)\V",   "pickupBefore": "\Date(928167600000-0500)\V",   "pickupDate": "\Date(928167600000-0500)\V",   "remarks": "String content",   "totalWeight": 12678967.543233 }, "returnId": "String content", "userType": "String content" } </pre> <p>The following is an example response Xml body:</p>
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### 3.3 Shipment Data Elements-Schema Information

Complex Type Name/Element	Element	Null Allowed	Data Type	Description
Transporter		yes	tns	<b>TransporterType</b>
	Carrier	yes	string	Name of transporter. Defaults to client configured transporter carrier.
	ClassOfService	yes	string	Class of service used for this transporter. Defaults to client configured transporter class of service.
	TransporterCode	yes	string	Code for the class of service used for this transporter. Defaults to client configured

				transporter code.
additionalData		yes	tns	<b>ArrayOfNameValue</b>
	NameValue	yes	tns	<b>ArrayOfNameValue</b>
				Names and values of any other client data fields to include in the SmartLabel barcode if appropriate. Additional data may be added during implementation.
	Value	yes	string	Value (Namespace Specific String)
	Name	yes	string	Qualifier (Namespace Specific Qualifier)
clientServiceFlag		yes	string	
Consumer		no	string	Name of transporter. Defaults to client configured transporter carrier.
	Address			
	Address 1	no	string	Consumer's address line 1
	Address 2	yes	string	Consumer's address line 2
	City	no	string	Consumer's city
	Country Code	yes	string	Consumer's 2 digit Country Code
	Name	yes	string	Consumer's Country Name
	State	no	string	Consumer's state code
	Zip	no	string	Consumer's postal code
	DayTimePhoneNumber	yes	string	Consumer's day time phone number
	EmailOptInflag	no	string	Consumer's email will be included
	EveningPhoneNumber	no	string	Consumer's day time phone number
	FaxNumber	no	string	Consumer's fax number
	FirstName	no	string	The first name of the consumer
	Honorific	no	string	Prefix or Suffix for consumer's name
	LastName	no	string	The last name of the consumer
	MiddleInitial	no	string	Consumer's middle initial
	PrimaryEmailAddress	no	string	The primary email address of the consumer
	SecondaryEmailAddress	no	string	The secondary email address of the consumer
DeliveryMethod		no	string	Label delivery method being requested. The delivery method defaults to self-service. If any other method is selected, the label images are not returned in the response. String values: <ul style="list-style-type: none"> <li>♦ Email</li> <li>♦ Print and Mail</li> </ul>



				♦ Self Service
destination		yes	<b>tns</b>	AddressData
	Address1	yes	string	Destination street address
	Address2	yes	string	Destination street address additional information
	Address3	yes	string	Destination street address additional information
	City	yes	string	Destination City
	CountryCode	yes	string	Destination Country 2-digit code
	Name	yes	string	Destination country name
	State	yes	string	Destination state
	Zip	yes	string	Destination postal code
DispositionRuleSerId		yes	integer	DispositionRuleSet to use in determining the DispositionSort. If not provided, the Merchant default is used.
LabelCount		yes	integer	<p>Number of labels being requested. The number must be between 0 and 9. The count defaults to 1.</p> <p>Note: This will generate copies of the same label with the same return ID. For unique return IDs, multiple calls should be made with a label count of 1.</p>
MerchantId		no	string	Four-character NGSMerchantID, used to indicate which client brand the request is for.
pickupRequest		yes	<b>tns</b>	PickupRequestData
	packageCount	yes	integer	Number of packages to be picked up dup
	pickupAfter	yes	dateTime	The earliest time that packages can be picked up Format: yyyy-mm-ddThh:mm:ss
	pickupBefore	yes	dateTime	The latest time that packages can be picked up Format: yyyy-mm-ddThh:mm:ss
	pickupDate	yes	dateTime	The date of package pick up Format: yyyy-mm-ddThh:mm:ss
	remarks	yes	string	Additional pick up information (directions, gate codes, etc.)
	totalWeight	yes	decimal	Weight of all packages being picked up
ReturnId		yes	string	ReturnID to use in the Label client data. If a ReturnID is not

			provided here, a merchant-specific progressive number is used.
userType	yes	string	Client, customer or other end-user for which the labels are being generated.

#### Shipment Request Example

```
{
  "consumer":{
    "Address":{
      "Address1":"2700",
      "City":"Austin",
      "CountryCode":"US",
      "State":"TX",
      "Zip":"78746"
    },
    "FirstName":"Test",
    "LastName":"User",
    "PrimaryEmailAddress":"customer@emaildomain.com"
  },
  "deliveryMethod":"Email",
  "dispositionRuleSetId":99,
  "labelCount":1,
  "merchantID":"NGST",
  "returnId":"123456789A"
}
```

### 3.4 Shipment Response

XML Request Response	JSON Request Response
<pre>&lt;ShipmentRequestResponse xmlns="http://schemas.datacontract.org/2004/07/Newgistics.WebS ervices.ShipmentAPI"&gt;   &lt;PrimaryBarcode&gt;String content&lt;/PrimaryBarcode&gt;   &lt;ShipmentID&gt;String content&lt;/ShipmentID&gt;   &lt;generalCharge&gt;     &lt;BaseRate&gt;12678967.543233&lt;/BaseRate&gt;     &lt;CurrencyCode&gt;String content&lt;/CurrencyCode&gt;     &lt;Discount&gt;12678967.543233&lt;/Discount&gt;     &lt;Fees&gt;12678967.543233&lt;/Fees&gt;     &lt;RateCategory&gt;String content&lt;/RateCategory&gt;   &lt;/generalCharge&gt;   &lt;labelURL&gt;String content&lt;/labelURL&gt;   &lt;perPackageCharges&gt;     &lt;ReturnChargeType&gt;       &lt;BaseRate&gt;12678967.543233&lt;/BaseRate&gt;       &lt;CurrencyCode&gt;String content&lt;/CurrencyCode&gt;       &lt;Discount&gt;12678967.543233&lt;/Discount&gt;       &lt;Fees&gt;12678967.543233&lt;/Fees&gt;       &lt;RateCategory&gt;String content&lt;/RateCategory&gt;     &lt;/ReturnChargeType&gt;     &lt;ReturnChargeType&gt;       &lt;BaseRate&gt;12678967.543233&lt;/BaseRate&gt;       &lt;CurrencyCode&gt;String content&lt;/CurrencyCode&gt;       &lt;Discount&gt;12678967.543233&lt;/Discount&gt;</pre>	<pre>{   "PrimaryBarcode":"String content",   "ShipmentID":"String content",   "generalCharge":{     "BaseRate":12678967.543233,     "CurrencyCode":"String content",     "Discount":12678967.543233,     "Fees":12678967.543233,     "RateCategory":"String content"   },   "labelURL":"String content",   "perPackageCharges":[{     "BaseRate":12678967.543233,     "CurrencyCode":"String content",     "Discount":12678967.543233,     "Fees":12678967.543233,     "RateCategory":"String content"   }],   "transporter":{     "Carrier":"String content",     "ClassOfService":"String content",     "TransporterCode":"String content"   } }</pre>

<pre> &lt;Fees&gt;12678967.543233&lt;/Fees&gt; &lt;RateCategory&gt;String content&lt;/RateCategory&gt; &lt;/ReturnChargeType&gt; &lt;/perPackageCharges&gt; &lt;transporter&gt;   &lt;Carrier&gt;String content&lt;/Carrier&gt;   &lt;ClassOfService&gt;String content&lt;/ClassOfService&gt;   &lt;TransporterCode&gt;String content&lt;/TransporterCode&gt; &lt;/transporter&gt; &lt;/ShipmentRequestResponse&gt; </pre>	
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

### 3.5 Shipment Response Data Elements-Schema Information

Element	Properties	Null Allowed	Data Type	Description
primaryBarcode		yes	string	Primary barcode is the Smartlabel barcode provided by Newgistics
shipmentID		yes	string	This is the identifier the client uses in all methods ({id} in the URL). It identifies the shipment/label.
generalCharge		yes	tns	<b>ReturnChargeType</b> Merchant-specified general charge for the return if the merchant defines a charge.
	baseRate	no	decimal	The per package contracted rate
	currencyCode	yes	sting	Type of currency (i.e. USD)
	discount	no	decimal	Amount of any contracted discount
	fees	no	decimal	Amount of any additional fees
	rateCategory	yes	string	Not applicable to REST APIs
labelURL		yes	string	Contains the URLs that can be referenced to load the label image from the Newgistics Shipment Manager web application
perPackageCharges		yes	tns	<b>ArrayOfReturnChargeType</b> Merchant charge per package if the merchant defines a charge.
	*returnChargeType (multiple instances)	yes	tns	<b>ReturnChargeType</b> Merchant-specified general charge for the return if the merchant defines a charge.
	baseRate	no	decimal	The per package contracted rate
	currencyCode	yes	sting	Type of currency (i.e. USD)
	discount	no	decimal	Amount of any contracted discount
	fees	no	decimal	Amount of any additional fees
transporter		yes	string	<b>TransporterType</b> Carrier SCAC and carrier class-of-service for which the labels were generated. This is either as determined by the rules or as specified in the request.
	Carrier	yes	string	Name of transporter. Defaults to client configured transporter carrier.

ClassOfService	yes	string	Class of service used for this transporter. Defaults to client configured transporter class of service.
TransporterCode	yes	string	Code for the class of service used for this transporter. Defaults to client configured transporter code.

### Shipment Response Example

```
{
  "PrimaryBarcode": "7051078799NGST01123456789AY",
  "ShipmentID": "99387D55E973FBA71A5A60A8DF2A97151008F4C625BC80BF",
  "generalCharge": null,
  "labelURL": "http://returnscenter.int.smartlabel.com/v3/PrintWebLabel.aspx?weblabelid=FA3F1D16CCBDA16C79B76F938278B08D094727EB0DF2FB80",
  "perPackageCharges": null,
  "transporter": {
    "Carrier": "USPS",
    "ClassOfService": "USPS Return Delivery Unit",
    "TransporterCode": "5"
  }
}
```

## 3.5.1 Shipment Responses

Property	401 Status when API Key is missing or invalid	Response for invalid data	Label Request Response (raw)
Cache-Control:	private	private	private
Content-Length:	338	40	397
Content-Type:	text/html or	application/json; charset=utf-8	application/json; charset=utf-8
Server:	Microsoft-IIS/7.5	Microsoft-IIS/7.5	Microsoft-IIS/7.5
X-AspNet-Version:	4.0.30319	4.0.30319	4.0.30319
X-Powered-By:	ASP.NET	ASP.NET	ASP.NET
Date	Fri, 17 Aug 2012 18:24:43 GMT	Fri, 17 Aug 2012 18:19:23 GMT	
Message	A valid API key needs to be included using the x-API-Key HTTP Header	"ER1016:Zip code is missing or invalid;"	
Html Sample	<pre>&lt;html&gt;&lt;head&gt;&lt;title&gt;Request Error - No API Key&lt;/title&gt;&lt;style type="text/css"&gt;   body   {     font-family: Verdana;     font-size: large;   } &lt;/style&gt;&lt;/head&gt;&lt;body&gt;&lt;h1&gt;Request Error&lt;/h1&gt;&lt;p&gt;A valid API key needs to be included using the x-API-Key HTTP Header&lt;/p&gt;&lt;/body&gt;&lt;/html&gt;</pre>		<pre>{   "PrimaryBarcode": "7051078799NGST01123456789AY",   "ShipmentID": "99387D55E973FBA71A5A60A8DF2A97151008F4C625BC80BF",   "generalCharge": null,   "labelURL": "http://returnscenter.int.smartlabel.com/v3/PrintWebLabel.aspx?weblabelid=FA3F1D16CCBDA16C79B76F938278B08D094727EB0DF2FB80",   "perPackageCharges": null,   "transporter": {     "Carrier": "USPS",     "ClassOfService": "USPS Return Delivery Unit",     "TransporterCode": "5"   } }</pre>

## 4 Cancel Pickup

### 4.1 Cancel Pickup Summary

Method	POST
--------	------

<b>URI</b>	http://{ServerName}/Shipment /{id}/CancelPickup
------------	-------------------------------------------------

## 4.2 Cancel Pickup Request XML/JSON

XML Request	JSON Request
<pre>&lt;CancelPickupRequestData xmlns="http://schemas.datacontract.org/2004/07/Newgistics.WebServices.ShipmentAPI"&gt;   &lt;confirmationNumber&gt;String content&lt;/confirmationNumber&gt;   &lt;merchantID&gt;String content&lt;/merchantID&gt;   &lt;postalCode&gt;String content&lt;/postalCode&gt;   &lt;remarks&gt;String content&lt;/remarks&gt;   &lt;shipmentID&gt;String content&lt;/shipmentID&gt;   &lt;userType&gt;String content&lt;/userType&gt; &lt;/CancelPickupRequestData&gt;</pre>	<pre>{   "confirmationNumber":"String content",   "merchnatID":"String content",   "postalCode":"String content",   "remarks":"String content",   "shipmentID":"String content",   "userType":"String content" }</pre>

## 4.3 Cancel Pickup Data Elements-Schema Information

Element	Null Allowed	Data Type	Description
confirmationNumber	yes	string	Reference number confirming the cancellation
merchantID	yes	string	Four-character NGSMerchantID, used to indicate which client brand the request is for.
postalCode	yes	string	Zip code of the cancelled pickup
remarks	yes	string	Reason of cancellation
shipmentID	yes	string	This is the identifier the client uses in all methods ({id} in the URL). It identifies the shipment/label.
userType	yes	string	Client, customer or other end-user for which the labels are being generated.

## 4.4 Cancel Pickup Response XML/JSON

XML Request	JSON Request
<pre>&lt;boolean xmlns="http://schemas.microsoft.com/2003/10/Serialization/"&gt;true&lt;/boolean&gt;</pre>	<pre>true</pre>

## 4.5 Cancel Pickup Response Data Elements-Schema Information

Element	Null Allowed	Data Type	Description
boolean	yes	boolean	The status of the cancellation request. True or error returned.

# 5 Get Label Image

## 5.1 Create Label Summary

<b>Method</b>	GET
<b>URI</b>	http://{ServerName}/Shipment /{id}/Label/Image

## 5.2 Get Label Request XML/JSON

XML Request	JSON Request
The Request body is empty	

**NOTE:** by default the image is return in png format. *To receive the image in JPEG format, you must add [Accept:image/jpeg] to the request header.*

## 5.3 Get Label Response XML/JSON

XML Request	JSON Request
The Response body is a byte stream	

## 5.4 Get Label Response Properties

# 6 Get Label PDF

## 6.1 Create Label Summary

<b>Method</b>	GET
<b>URI</b>	http://{ServerName}/Shipment /{id}/Label/PDF

## 6.2 Get Label Request XML/JSON

XML Request	JSON Request
The Request body is empty	

## 6.3 Get Label Response XML/JSON

XML Request	JSON Request
The Response body is a byte stream	

## 6.4 Get Label Response Properties

# 7 Request Pickup (without Label Creation)

## 7.1 Request Pickup Summary

<b>Method</b>	POST
<b>URI</b>	http://{ServerName}/Shipment /{id}/RequestPickup

## 7.2 Request Pickup Request XML/JSON

XML Request	JSON Request
<PickupRequestData xmlns="http://schemas.datacontract.org/2004/07/Newgis	{ "packageCount":2147483647,

tics.WebServices.ShipmentAPI"> <packageCount>2147483647</packageCount> <pickupAfter>1999-05-31T11:20:00</pickupAfter> <pickupBefore>1999-05-31T11:20:00</pickupBefore> <pickupDate>1999-05-31T11:20:00</pickupDate> <remarks>String content</remarks> <totalWeight>12678967.543233</totalWeight> </PickupRequestData>	"pickupAfter": "\Date(928167600000-0500)\", "pickupBefore": "\Date(928167600000-0500)\", "pickupDate": "\Date(928167600000-0500)\", "remarks": "String content", "totalWeight": 12678967.543233 }
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

### 7.3 Request Pickup Data Elements-Schema Information

Element	Null Allowed	Data Type	Description
packageCount	yes	integer	Number of packages to be picked up dup
pickupAfter	yes	dateTime	The earliest time that packages can be picked up Format: yyyy-mm-ddThh:mm:ss
pickupBefore	yes	dateTime	The latest time that packages can be picked up Format: yyyy-mm-ddThh:mm:ss
pickupDate	yes	dateTime	The date of package pick up Format: yyyy-mm-ddThh:mm:ss
remarks	yes	string	Additional pick up information (directions, gate codes, etc.)
totalWeight	yes	decimal	Weight of all packages being picked up

### 7.4 Request Pickup Response XML/JSON

XML Request	JSON Request
<PickupRequestResponse xmlns="http://schemas.datacontract.org/2004/07/Newgistics.WebServices.ShipmentAPI"> <carrierConfirmationNumber>String content</carrierConfirmationNumber> <confirmationNumber>String content</confirmationNumber> </PickupRequestResponse>	{ "carrierConfirmationNumber": "String content", "confirmationNumber": "String content" }

### 7.5 Request Pickup Data Elements-Schema Information

Element	Null allowed	Data Type	Description
carrierConfirmationNumber	yes	string	The confirmation number of the pickup request provided by The carrier (USPS)
confirmationNumber	yes	String	The confirmation number of the pickup request provided by Newgistics

### 7.6 Request Pickup Response Properties

## 8 Tracking

### 8.1 Tracking Summary

Method	POST
--------	------

<b>URI</b>	http://{ServerName}/Shipment /Tracking
------------	----------------------------------------

## 8.2 Tracking Request XML/JSON

XML Request	JSON Request
<pre>&lt;TrackingRequestData xmlns="http://schemas.datacontract.org/2004/07/Newgistics.WebServices.ShipmentAPI"&gt;   &lt;merchantID&gt;String content&lt;/merchantID&gt;   &lt;qualifier&gt;String content&lt;/qualifier&gt;   &lt;searchStrings&gt;     &lt;string xmlns="http://schemas.microsoft.com/2003/10/Serialization/Arrays"&gt;String content&lt;/string&gt;     &lt;string xmlns="http://schemas.microsoft.com/2003/10/Serialization/Arrays"&gt;String content&lt;/string&gt;   &lt;/searchStrings&gt; &lt;/TrackingRequestData&gt;</pre>	<pre>{   "merchantID": "String content",   "qualifier": "String content",   "searchStrings": ["String content"] }</pre>

## 8.3 Tracking Data Elements-Schema Information

Element	Null Allowed	Data Type	Description
merchantID	yes	String	Four-character NGSMerchantID, used to indicate which client brand the request is for.
qualifier	yes	String	Discriminator indicating the type of search to perform String Values: <ul style="list-style-type: none"> <li>Barcode – PRS or SL barcode.</li> <li>Reference Number – Return ID or client supplied Reference Number for deliveries.</li> <li>Order Number – RMA order number. This is not the same number as the ReturnID as there can be multiple ReturnIDs per Order Number.</li> <li>ItemID – A specific RMA item in an Order Number.</li> <li>NGSTTrackingID = Newgistics specific tracking number.</li> </ul>
search Strings	yes	String (array)	Search value used to find matching labels

### Tracking Request Example

<pre>{   "merchantID": "NGST", "qualifier": "Barcode",   "searchStrings": ["123456789A", "11223344A"] }</pre>
---------------------------------------------------------------------------------------------------------------

## 8.4 Tracking Response XML/JSON

XML Request	JSON Request
<pre>&lt;TrackingResultData xmlns="http://schemas.datacontract.org/2004/07/Newgistics.WebServices.ShipmentAPI"&gt;</pre>	<pre>{   "Packages": [{     "CarrierCode": "String content",</pre>



<pre> &lt;Packages&gt;   &lt;PackageTrackingData&gt;     &lt;CarrierCode&gt;String content&lt;/CarrierCode&gt;     &lt;CarrierCodeDescription&gt;String content&lt;/CarrierCodeDescription&gt;     &lt;CarrierName&gt;String content&lt;/CarrierName&gt;     &lt;CarrierService&gt;String content&lt;/CarrierService&gt;     &lt;CarrierServiceCode&gt;String content&lt;/CarrierServiceCode&gt;     &lt;CarrierServiceCodeDescription&gt;String content&lt;/CarrierServiceCodeDescription&gt;     &lt;ErrorMessage&gt;String content&lt;/ErrorMessage&gt;     &lt;EstimatedDeliveryDate&gt;1999-05- 31T11:20:00&lt;/EstimatedDeliveryDate&gt;     &lt;EstimatedDeliveryText&gt;String content&lt;/EstimatedDeliveryText&gt;     &lt;FinalCarrier&gt;String content&lt;/FinalCarrier&gt;     &lt;MerchantName&gt;String content&lt;/MerchantName&gt;     &lt;PackageTrackingEvents&gt;     &lt;PackageTrackingEvent&gt;       &lt;CSREventMessage&gt;String content&lt;/CSREventMessage&gt;       &lt;CarrierCode&gt;String content&lt;/CarrierCode&gt;       &lt;CarrierDescription&gt;String content&lt;/CarrierDescription&gt;       &lt;City&gt;String content&lt;/City&gt;       &lt;ConsumerEventMessage&gt;String content&lt;/ConsumerEventMessage&gt;       &lt;CreateDate&gt;1999-05-31T11:20:00&lt;/CreateDate&gt;       &lt;Date&gt;1999-05-31T11:20:00&lt;/Date&gt;       &lt;Description&gt;String content&lt;/Description&gt;       &lt;EventCode&gt;String content&lt;/EventCode&gt;       &lt;EventDescription&gt;String content&lt;/EventDescription&gt;       &lt;FacilityID&gt;2147483647&lt;/FacilityID&gt;       &lt;FacilityName&gt;String content&lt;/FacilityName&gt;       &lt;PostalCode&gt;String content&lt;/PostalCode&gt;       &lt;State&gt;String content&lt;/State&gt;       &lt;Time&gt;1999-05-31T11:20:00&lt;/Time&gt;       &lt;TrackingKey&gt;String content&lt;/TrackingKey&gt;       &lt;UpdateDate&gt;1999-05-31T11:20:00&lt;/UpdateDate&gt;     &lt;/PackageTrackingEvent&gt;     &lt;PackageTrackingEvent&gt;       &lt;CSREventMessage&gt;String content&lt;/CSREventMessage&gt;       &lt;CarrierCode&gt;String content&lt;/CarrierCode&gt;       &lt;CarrierDescription&gt;String content&lt;/CarrierDescription&gt;       &lt;City&gt;String content&lt;/City&gt;       &lt;ConsumerEventMessage&gt;String content&lt;/ConsumerEventMessage&gt;       &lt;CreateDate&gt;1999-05-31T11:20:00&lt;/CreateDate&gt;       &lt;Date&gt;1999-05-31T11:20:00&lt;/Date&gt;       &lt;Description&gt;String content&lt;/Description&gt;       &lt;EventCode&gt;String content&lt;/EventCode&gt;       &lt;EventDescription&gt;String content&lt;/EventDescription&gt;       &lt;FacilityID&gt;2147483647&lt;/FacilityID&gt;       &lt;FacilityName&gt;String content&lt;/FacilityName&gt;       &lt;PostalCode&gt;String content&lt;/PostalCode&gt;       &lt;State&gt;String content&lt;/State&gt;       &lt;Time&gt;1999-05-31T11:20:00&lt;/Time&gt;       &lt;TrackingKey&gt;String content&lt;/TrackingKey&gt;       &lt;UpdateDate&gt;1999-05-31T11:20:00&lt;/UpdateDate&gt;     &lt;/PackageTrackingEvent&gt;   &lt;/PackageTrackingEvents&gt; </pre>	<pre> "CarrierCodeDescription": "String content", "CarrierName": "String content", "CarrierService": "String content", "CarrierServiceCode": "String content", "CarrierServiceCodeDescription": "String content", "ErrorMessage": "String content",  "EstimatedDeliveryDate": "\Date(928167600000- 0500)\V", "EstimatedDeliveryText": "String content", "FinalCarrier": "String content", "MerchantName": "String content", "PackageTrackingEvents": [{   "CSREventMessage": "String content",   "CarrierCode": "String content",   "CarrierDescription": "String content",   "City": "String content",   "ConsumerEventMessage": "String content",    "CreateDate": "\Date(928167600000-0500)\V",   "Date": "\Date(928167600000- 0500)\V",    "Description": "String content",   "EventCode": "String content",   "EventDescription": "String content",   "FacilityID": 2147483647,   "FacilityName": "String content",   "PostalCode": "String content",   "State": "String content",   "Time": "\Date(928167600000- 0500)\V",    "TrackingKey": "String content",    "UpdateDate": "\Date(928167600000-0500)\V" }], "ReferenceNumber": "String content", "ShipToAddressLine1": "String content", "ShipToAddressLine2": "String content", "ShipToCity": "String content", "ShipToName": "String content", "ShipToPostalCode": "String content", "ShipToState": "String content", "Signer": "String content", "Status": "String content", "TrackingNumber": "String content", "UnitOfMeasure": "String content", "Weight": 12678967.543233 } </pre>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

```

<ReferenceNumber>String content</ReferenceNumber>
<ShipToAddressLine1>String content</ShipToAddressLine1>
<ShipToAddressLine2>String content</ShipToAddressLine2>
<ShipToCity>String content</ShipToCity>
<ShipToName>String content</ShipToName>
<ShipToPostalCode>String content</ShipToPostalCode>
<ShipToState>String content</ShipToState>
<Signer>String content</Signer>
<Status>String content</Status>
<TrackingNumber>String content</TrackingNumber>
<UnitOfMeasure>String content</UnitOfMeasure>
<Weight>12678967.543233</Weight>
</PackageTrackingData>
<PackageTrackingData>
  <CarrierCode>String content</CarrierCode>
  <CarrierCodeDescription>String
content</CarrierCodeDescription>
  <CarrierName>String content</CarrierName>
  <CarrierService>String content</CarrierService>
  <CarrierServiceCode>String content</CarrierServiceCode>
  <CarrierServiceCodeDescription>String
content</CarrierServiceCodeDescription>
  <ErrorMessage>String content</ErrorMessage>
  <EstimatedDeliveryDate>1999-05-
31T11:20:00</EstimatedDeliveryDate>
  <EstimatedDeliveryText>String content</EstimatedDeliveryText>
  <FinalCarrier>String content</FinalCarrier>
  <MerchantName>String content</MerchantName>
  <PackageTrackingEvents>
  <PackageTrackingEvent>
    <CSREventMessage>String content</CSREventMessage>
    <CarrierCode>String content</CarrierCode>
    <CarrierDescription>String content</CarrierDescription>
    <City>String content</City>
    <ConsumerEventMessage>String
content</ConsumerEventMessage>
    <CreateDate>1999-05-31T11:20:00</CreateDate>
    <Date>1999-05-31T11:20:00</Date>
    <Description>String content</Description>
    <EventCode>String content</EventCode>
    <EventDescription>String content</EventDescription>
    <FacilityID>2147483647</FacilityID>
    <FacilityName>String content</FacilityName>
    <PostalCode>String content</PostalCode>
    <State>String content</State>
    <Time>1999-05-31T11:20:00</Time>
    <TrackingKey>String content</TrackingKey>
    <UpdateDate>1999-05-31T11:20:00</UpdateDate>
  </PackageTrackingEvent>
  <PackageTrackingEvent>
    <CSREventMessage>String content</CSREventMessage>
    <CarrierCode>String content</CarrierCode>
    <CarrierDescription>String content</CarrierDescription>
    <City>String content</City>
    <ConsumerEventMessage>String
content</ConsumerEventMessage>
    <CreateDate>1999-05-31T11:20:00</CreateDate>
    <Date>1999-05-31T11:20:00</Date>

```

```

<Description>String content</Description>
<EventCode>String content</EventCode>
<EventDescription>String content</EventDescription>
<FacilityID>2147483647</FacilityID>
<FacilityName>String content</FacilityName>
<PostalCode>String content</PostalCode>
<State>String content</State>
<Time>1999-05-31T11:20:00</Time>
<TrackingKey>String content</TrackingKey>
<UpdateDate>1999-05-31T11:20:00</UpdateDate>
</PackageTrackingEvent>
</PackageTrackingEvents>
<ReferenceNumber>String content</ReferenceNumber>
<ShipToAddressLine1>String content</ShipToAddressLine1>
<ShipToAddressLine2>String content</ShipToAddressLine2>
<ShipToCity>String content</ShipToCity>
<ShipToName>String content</ShipToName>
<ShipToPostalCode>String content</ShipToPostalCode>
<ShipToState>String content</ShipToState>
<Signer>String content</Signer>
<Status>String content</Status>
<TrackingNumber>String content</TrackingNumber>
<UnitOfMeasure>String content</UnitOfMeasure>
<Weight>12678967.543233</Weight>
</PackageTrackingData>
</Packages>
</TrackingResultData>

```

## 8.5 Tracking Data Elements-Schema Information

Element	Properties	Null allowed	Data Type	Description
Packages		yes	tns	Array of Package Tracking Data
	*PackagetrackingData (multiple instances)	yes	tns	Array of Package Tracking Data
	CarrierCode	yes	string	The carrier supplied code for the tracking event
	CarrierCodeDescription	yes	string	The carrier supplied description for the tracking event
	CarrierName	yes	string	The name of the merchant from whom the package originated
	CarrierService	yes	string	The name of the service of the company carrying the package
	CarrierServiceCodeDescription	yes	string	The Newgistics assigned identifier for the package service
	ErrorMessage	yes	string	A message indicating a transmission or data acquisition problem that interferes with the method
	EstimatedDeliveryDate	yes	string	The calculated range of when a package will be delivered

EstimatedDeliveryText	yes	string	Comments/Text related to the EDD
FinalCarrier	yes	string	The last carrier in the cycle; the one who delivers the package to its destination
MerchantName	yes	string	The name of the merchant from whom the package originated
*PackageTrackingEvents (multiple instances)	yes	tns	<b>ArrayOfPackageTrackingEvent</b> The scan events that the package has experienced
CSREventMessage	yes	string	The message that indicated the nature of the event
CarrierCode	yes	string	The carrier supplied code for the tracking event
CarrierDescription	yes	string	The carrier supplied description for the tracking event
City	yes	string	The city in which the event occurred
ConsumerEventMessage	yes		The event message sent to the consumer
CreateDate	no	dateTime	The date the event message is created
Date	no	dateTime	The date that the event occurred
Description	yes	string	
EventCode	yes	string	The event code for the tracking event. See the table below for possible values.
EventDescription	yes	string	The description of the tracking event
FacilityID	no	string	The Newgistics identifier for the facility at which the event occurred
FacilityName	yes	string	The name of the facility at which the event occurred
PostalCode	yes	string	The postal zip code in which the event occurred
State	yes	string	The state in which the event occurred
Time	no	dateTime	The time that the event occurred
TrackingKey	yes	string	For Internal use only; links events back to packages
UpdateDate	no	string	The date that the event occurred
ReferenceNumber	yes	string	The package reference number
ShipToAddressLine1	yes	string	The street address of the

				customer receiving the package
ShipToAddressLine2	yes	string		Additional address information about the customer receiving the package
ShipToCity	yes	string		The city of the customer receiving the package
ShipToName	yes	string		The name of the customer receiving the package
ShipToPostalCode	yes	string		The postal code of the customer receiving the package
ShipToState	yes	string		The state of the customer receiving the package
Signer	yes	string		The name of the person who signed for the package delivery in the case of Signature Confirmation.
Status	yes	string		The status of the package String Values: <ul style="list-style-type: none"> <li>◆ Exception</li> <li>◆ NotFound</li> <li>◆ Unknown</li> <li>◆ Created</li> <li>◆ Received</li> <li>◆ InTransit</li> <li>◆ Delivered</li> <li>◆ Departed</li> <li>◆ InUSPSNetwork</li> </ul>
TrackingNumber	yes	string		The package tracking number
UnitOfMeasure	yes	string		The units of the weight measure (Default-lbs)
Weight	yes	decimal		The weight of the package

#### Tracking Response Example

```
HTTP/1.1 200 OK
Cache-Control: private
Content-Length: 58303
Content-Type: application/json; charset=utf-8
Server: Microsoft-IIS/7.5
X-AspNet-Version: 4.0.30319
X-Powered-By: ASP.NET
Date: Fri, 17 Aug 2012 19:08:17 GMT
```

```
{
  "Packages": [
    {
      "CarrierCode": "NEWG",
      "CarrierCodeDescription": "Newgistics, Inc.",
      "CarrierName": "United States Postal Service",
      "CarrierService": "USPS Return Delivery Unit",
      "CarrierServiceCode": null,
      "CarrierServiceCodeDescription": null,
      "ErrorMessage": "",
      "EstimatedDeliveryDate": null,
      "EstimatedDeliveryText": null,
      "FinalCarrier": null,
      "MerchantName": null,
      "PackageTrackingEvents": [
        {
          "CSREventMessage": "Label created",
          "CarrierCode": "LC",
          "CarrierDescription": "Label Created",
          "City": "",
          "ConsumerEventMessage": "Label created",
          "CreateDate": "\Date(1343702575000-0500)\",
          "Date": "\Date(1343624400000-0500)\",
          "Description": "Label Created",
          "EventCode": "LC",
          "EventDescription": "Label Created",
          "FacilityID": 114,
          "FacilityName": "",
          "PostalCode": "",
          "State": "",
          "Time": "\Date(1345242660000-0500)\",
          "TrackingKey": "163298425",
          "UpdateDate": "\Date(1343702575000-0500)\",
          "ReferenceNumber": "123456789A",
          "ShipToAddressLine1": "2700 Via
```

```
Fortuna","ShipToAddressLine2":"Suite 300","ShipToCity":"Austin","ShipToName":"Austin -  
Newgistics Test  
44","ShipToPostalCode":"78746","ShipToState":"TX","Signer":null,"Status":"Unknown","Trackin  
gNumber":"123456789A","UnitOfMeasure":"pounds","weight":null}}}]}
```