

Track/Confirm

USPS Web Tools™

Application Programming Interface

User's Guide

Document Version 4.1a (01/22/2012)



To Our Customers

In registering for use of the USPS Web Tools™ (Web Tools), you received a user ID that will allow you to begin sending calls to the server when you are ready. Any additional information or contact with you will occur as indicated on the registration form, please return to the [eCommerce API Technical Guides site](#) for the most recent documentation.

If you require technical support, contact the USPS Internet Customer Care Center (ICCC). This office is manned from 7:00 AM to 11:00 PM EST daily.

E-mail address: uspstechsupport@esecurecare.net

Telephone: 1-800-344-7779 (7:00 AM to 11:00 PM EST daily)

USPS Customer Commitment

The United States Postal Service fully understands the importance of providing information and service anytime day or night to your Internet and e-commerce customers. For that reason, the USPS is committed to providing 24 x 7 service from our Web Tools servers, 365 days a year.

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1.0 Introduction To Web Tools

The USPS Web Tools allow developers of web-based and shrink-wrapped applications access to the on-line services of the United States Postal Service (USPS). They provide easy access to shipping information and services for your customers. Your customers can utilize the functions provided by the USPS without ever leaving your web site. Once the Web Tools are integrated, your server communicates through the USPS Web Tools server over HTTP using XML (eXtensible Markup Language).

Important: Implementing these Web Tools requires experienced programmers who are familiar with Internet and web site development tools and techniques.

There is a *Web Tools User's Guide* for each Web Tool listed on the [eCommerce API Technical Guides site](#). These user guides provide examples of the XML transactions to the USPS Web Tools server and guidance for installation.

1.1 Implementation Overview

As shown below, before you go live with either of the Track/Confirm Web Tools, you must perform testing. Following the diagram is a brief description of the steps illustrated.



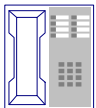
Register Online

Users only have to register once at www.usps.com to download and install Web Tools.



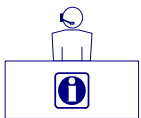
Test your XML

All Web Tools must be tested using the test scripts provided in this guide.



Call the ICCC

After successful testing, call the ICCC.



Customer Service

The ICCC sets you to "Production."

After the ICCC verifies your test results, it grants access to use Live data.



Go Live with your Web Tool.

Step 1: Register

To use the USPS Web Tools you must be a registered user. Completing the registration process resulted in the receipt of your user ID and test server URL.



If you have not registered, go to the [Web Tools website](#) and follow the instructions to register for the Web Tools.

Step 2: Test Your XML

The next step is to test your Web Tools. As a registered user you have been granted access to the test server. **An important note:** The test server is set up to only accept the pre-defined XML transactions and return the pre-defined XML responses provided in this document. For the testing phase, follow the instructions in the *Run Scripted Test* sections for **each** Web Tool.

Step 3: Go Live with Your Web Tool

At this point, you have completed all testing and are now ready to send Live data and begin full service. Follow the instructions provided in the *Run Live Data* sections for **each** Web Tool.



Note: The United States Postal Service expressly prohibits the use of Web Tools "scripting" without prior approval. Web Tools scripting can be defined as a technique to generate large volumes of Web Tools XML request transactions that are database- or batch-driven under program control, instead of being driven by individual user requests from a web site or a client software package. The USPS reserves the right to suspend server access without notification by any offending party that does not have prior approval for Web Tools scripting. Registered Web Tools customers that believe they have a legitimate requirement for Web Tools scripting should contact the ICCC to request approval.

1.2 User ID Restrictions

The user ID that you have received is for you or your company to use in accordance with the Terms and Conditions of Use to which you agreed during the registration process. **This user ID is not to be shared with others outside your organization, nor is it to be packaged, distributed, or sold to any other person or entity.** Please refer to the Terms and Conditions of Use Agreement for additional restrictions on the use of your user ID.

Warning: If the U.S. Postal Service discovers use of the same user ID from more than one web site, all users will be subject to immediate loss of access to the USPS server and termination of the licenses granted under the Terms and Conditions of Use.

The documentation and sample code contained in the *Web Tools User Guide* series may be reused and/or distributed to your customers or affiliates to generate awareness, encourage Web Tool use, or provide ease-of-use. It is your responsibility to ensure that your customers do not use your user ID for any purpose. Direct your customers to the [Web Tools website](#) to register, agree to the Terms and Conditions of Use agreement, and receive their own unique user ID.

Note to Software Distributors: The user ID restrictions discussed above are intended for online retailers that use the USPS Web Tools exclusively within their own web sites. If you plan to distribute software with the USPS Web Tools embedded, contact the ICCC for guidelines.

For more information regarding the USPS Web Tools user ID policy, or for questions regarding the distribution of documentation, send e-mail to uspstechsupport@esecurecare.net.

1.3 USPS Corporate Branding Guidelines

The U.S. Postal Service requests to be referenced and acknowledged as the source of information for all U.S. Postal Service data that has been acquired through the Internet and/or from other sources. However, this is not mandatory. The following guidelines should be followed for those that want to authenticate and/or validate the data displayed from the U.S. Postal Service.

1.3.1 Preferred Reference

Use one of the following when the USPS is the only referenced source:

- “Information provided by <http://www.usps.com/>.”

or

- Use the official USPS corporate logo or USPS product-specific logos.

Digital copies of USPS corporate trademarks/logos are available through the U.S. Postal Service, Public Policy and Communications Department, Washington, D.C. You can request the USPS corporate logo and/or product-specific logos by e-mailing ilogo@email.usps.gov. Requests will be responded to by e-mail within 10 days. We will review your web site, and if appropriate, provide the logo for usage in accordance with the guidelines and the license grant contained in the Terms and Conditions of Use for Internet Shipping Application Program Interfaces (Web Tools). If your web page is not available over the Internet, please provide a screen shot of the page where the logo will reside.

When requesting logo(s) you must provide the following information:

- Company name.
- URL and page where logo will reside.
- Type of business.
- How and where the logo will be used.
- Contact name.
- Telephone number.
- E-mail address.
- Desired graphic format, e.g., GIF, TIF, JPEG, etc.
- Logo desired:
 - ___ USPS Corporate Eagle logo
 - ___ Priority Mail
 - ___ Express Mail
 - ___ Other (describe)

1.3.2 Alternative Reference

Use one of the following when the USPS is listed with other shipping carriers or web sites:

- United States Postal Service.
- U.S. Postal Service.
- U.S.P.S. (use period after each initial).

The above alternatives are listed in the order of United States Postal Service preference.

1.3.3 Trademark Ownership and Use

The USPS trademarks listed in the front of this guide and any logos requested from USPS Public Policy and Communications Department should not be altered or abbreviated.

USPS trademarks are trademarks owned solely and exclusively by USPS and may be used only in the form and manner, and with appropriate legends prescribed by USPS. All advertising and other uses of USPS trademarks must include a legend indicating that USPS trademarks are the property of USPS and that they are being used under license from USPS, together with any other legends or marking that may be required by law. Nothing contained in this document shall be deemed to convey any title or ownership interest to any user except for the nonexclusive rights granted under the Terms and Conditions of Use for Internet Shipping Application Program Interfaces and this document.

1.4 Aviation Mail Security & Hazardous Materials

The Aviation Mail Security and Hazardous Materials Programs represent the U.S. Postal Service's commitment to provide a safe environment for our customers, employees, and the traveling public.

The U.S. Postal Service has taken a proactive role in the areas of aviation mail security and hazardous materials acceptance, handling, and transport for many years. Training has been provided to our employees, supervisors, and managers. Each year these programs are modified to meet increased challenges through improved technology. Our multi-phased programs are in effect 365 days a year, 24 hours a day. The particulars of our programs are withheld for security reasons. However, complying with the following restrictions will assist us in securing a safe mailing environment for all of us:

- Priority Mail envelopes or packages weighing 13 ounces or over with adhesive postage stamps cannot be deposited at unattended receptacles such as collection boxes and lobby drops. These mail pieces must be taken to your nearest USPS retail unit or may be given to your carrier if you are a known customer to him/her and have included your return address. Refer to [Domestic Mail Manual, Deposit for Priority Mail](#).
- International Mail envelopes or packages weighing 13 ounces or over with adhesive postage stamps or customer applied postage meter strips cannot be deposited at unattended mail receptacles such as collection boxes and lobby drops. These mail pieces must be taken to your nearest USPS retail unit or may be given to your carrier if you are a known customer

and have included your return address along with a completed, signed, and dated PS Form 2976 or 2976-A. Refer to [International Mail Manual](#).

1.5 XML Overview

XML uses a hierarchical (tree) element structure. Each element consists of a start tag of the form `<Name>`, and an end tag of the form `</Name>`, between which can be data and other elements. `<Name/>` is shorthand for `<Name></Name>`, an element with no data. Attributes such as user ID can be included in the start tag. **All data and attribute values in this document are for illustration purposes and are to be replaced by the actual values.** Developers must use the order and case for tag names of the sample code contained in this document. The tabs and carriage returns in the XML structures are for readability only; there is no need for white space in the actual code.

For more information about XML, browse the following web sites:

- [W3C web site](#)
- [XML.com web site](#)

1.6 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. But if there is a problem with a specific tracking ID within the request, an `<Error>` element will be returned within the `<TrackInfo>` element that pertains to the specific tracking ID. Since the Track/Confirm Web Tool allows you to submit multiple tracking IDs within a single request document, the response may contain a mix of tracking information and errors. For requests containing multiple tracking IDs, you need

to check if there is an <Error> within a given <TrackInfo> element, as well as checking for an error at the top level.

```
<TrackResponse>
  <TrackInfo ID="EJ987654321US">
    <TrackSummary>Your item was delivered at 2:22 pm on
    October 28 in PROVIDENCE RI 02912.</TrackSummary>
    <TrackDetail>October 28 1:34 pm ARRIVAL AT UNIT
    PROVIDENCE RI 02912</TrackDetail>
    <TrackDetail>October 28 10:54 am ARRIVAL AT UNIT
    PROVIDENCE RI 02906</TrackDetail>
    <TrackDetail>October 27 7:12 pm ENROUTE
    20770</TrackDetail>
    <TrackDetail>October 27 6:46 pm ACCEPT OR PICKUP
    20770</TrackDetail>
  </TrackInfo>
  <TrackInfo ID="EJ888888888US">
    <TrackSummary> There is no record of that mail item.
    If it was mailed recently, It may not yet be tracked.
    Please try again later. </TrackSummary>
  </TrackInfo>
  <TrackInfo ID="bob">
    <TrackSummary> That's not a valid number. Please check
    to make sure you entered it correctly.</TrackSummary>
  </TrackInfo>
</TrackResponse>
```

If you need assistance with an error response, contact the ICCC.

1.7 Structure of this Guide

This document provides guidance and step-by-step instructions for installing the Track/Confirm Web Tools and fulfilling various administrative requirements. There are two separate Web Tools that can be implemented:

- Track/Confirm Web Tool, which lets customers determine the delivery status of their USPS packages, including Express Mail, Priority Mail, First Class Mail and Package Services with Delivery or Signature Confirmation, and international mail.
- Track/Confirm Fields Web Tool, which is identical to the Track/Confirm request, except that the request name and the return information data are broken down into fields instead of just one line of text.

Each Web Tool is described in its own section. The steps must be followed in the order presented.

2.0 Track/Confirm Web Tool

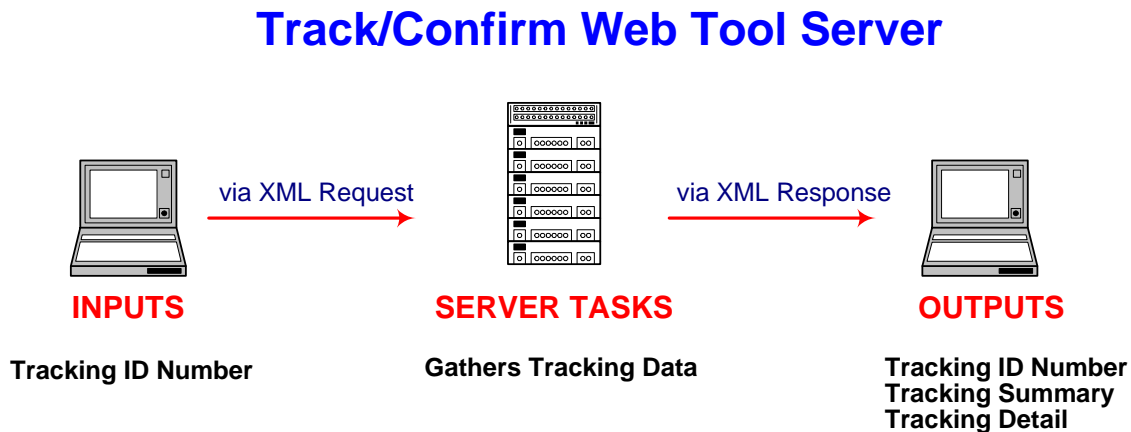


The Track/Confirm Web Tool lets customers determine the delivery status of their Priority Mail, Express Mail, and Package Services (Parcel Post, Bound Printed Matter, Library Mail, and Media Mail) packages with Delivery Confirmation. It will also provide tracking data right from your web site, without making your customer go to the USPS web site. Additionally, the Track/Confirm Web Tool can be appended to your Intranet, allowing, for example, a customer service representative to answer customer queries about the status of their shipments. The Web Tool Server returns tracking and/or delivery confirmation information for packages requested by the client. The Track/Confirm Web Tool limits the data requested to ten (10) packages per transaction.

Note: The data returned by the Track/Confirm Web Tool is intended for display only. The content or sequence of the string data returned by the Web Tool may change. Consequently, if you desire to apply any kind of logic against the tracking data, then you will need to use the Track/Confirm Fields Web Tool.

2.1 Track/Confirm Web Tool Transaction Procedures

The illustration below shows the transactional flow of information to and from the USPS Track/Confirm Web Tools server:



2.2 Run Scripted Test

Step 1: Build the XML Request

For testing purposes, the only value in the test code in this section that you should change is the user ID. Enter the user ID you received in the registration e-mail for testing. **All remaining code in the test scripts provided below must remain unchanged.**

Testing URL

To make test calls to the Track/Confirm server, access is required to a server. Use the Testing URL provided in the registration e-mail.

Scripted Test Requests

There are two test requests included in this procedure. All of the test script code contained in this document can be cut and pasted for your use in testing the software. Be sure to note the request numbers so you can match up the responses you will receive as provided in the *Successful Test Responses* section.

Test Request #1

```
http://SERVERNAME/ShippingAPITest.dll?API=TrackV2&XML=  
<TrackRequest USERID="xxxxxxxx">  
    <TrackID ID="EJ958083578US">  
    </TrackID>  
</TrackRequest>
```

Test Request #2

```
http://SERVERNAME/ShippingAPITest.dll?API=TrackV2&XML=  
<TrackRequest USERID="xxxxxxxx">  
    <TrackID ID="EJ958088694US">  
    </TrackID>  
</TrackRequest>
```

Step 2: Make the Internet Connection & Send the XML Request

This step involves four separate functions:

1. Making the connection to the USPS Shipping Web Tools server.
2. Sending the request (whether Visual Basic, Perl, ASP, or any other language).
3. Receiving the response from the Web Tools server.
4. Closing the Internet connection.

If you have recently registered, the registration e-mail will have the name of the server. If you are an existing user and do not have the name of the server please contact the ICC. When sending the XML request, the Web Tool name must be specified. The server name can be found in your Web Tools registration e-mail. The Web Tool name is TrackV2. The format of the XML transaction is:

```
http://servername/ShippingAPITest.dll?API=TrackV2&XML=<TrackRequest  
USERID="username">...</TrackRequest>
```

Step 3: Unpack the XML Response

When the USPS Shipping Web Tools returns a response, it will either return a successful response document or an error document.

Successful Test Responses

For your test to be successful, the following responses to Valid Test Requests should be returned *verbatim*.

Response to Test Request #1

```
<TrackResponse>
  <TrackInfo ID="EJ958083578US">
    <TrackSummary>Your item was delivered at 8:10 am on June
    1 in Wilmington DE 19801.</TrackSummary>
    <TrackDetail>May 30 11:07 am NOTICE LEFT WILMINGTON DE
    19801.</TrackDetail>
    <TrackDetail>May 30 10:08 am ARRIVAL AT UNIT WILMINGTON
    DE 19850.</TrackDetail>
    <TrackDetail>May 29 9:55 am ACCEPT OR PICKUP EDGEWATER
    NJ 07020.</TrackDetail>
  </TrackInfo>
</TrackResponse>
```

Response to Test Request #2

```
<TrackResponse>
  <TrackInfo ID="EJ958088694US">
    <TrackSummary>Your item was delivered at 1:39 pm on June
    1 in WOBURN MA 01815.</TrackSummary>
    <TrackDetail>May 30 7:44 am NOTICE LEFT WOBURN MA
    01815.</TrackDetail>
    <TrackDetail>May 30 7:36 am ARRIVAL AT UNIT NORTH
    READING MA 01889.</TrackDetail>
    <TrackDetail>May 29 6:00 pm ACCEPT OR PICKUP PORTSMOUTH
    NH 03801.</TrackDetail>
  </TrackInfo>
</TrackResponse>
```

Scripted Test Error Responses

If any values were changed in your request, the following default error will occur:

```

<Error>
  <Number>2147219040</Number>
  <Source>SOLServerTest;solservertest.Track_Respond</Source>
  <Description>This information has not been included in this
  Test Server.</Description>
  <HelpFile></HelpFile>
  <HelpContext></HelpContext>
</Error>

```

Although the input may be valid, the response will still raise this error, because those particular values have not been included in this test server. Refer to the *Error Responses* section for an explanation of any other returned errors.

Upon successful completion of the scripted test phase, call the ICCC. The ICCC will verify your test results and provide you with privileges necessary to proceed to the next step—running Live data.

2.3 Run Live Data

Step 1: Build the XML Request

Live XML Tags

The table below presents the XML input tags for generating Live requests and 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.

XML Tag	Required/ Optional	Description & Values Allowed
<TrackRequest...	Required	Input tag exactly as presented.
...USERID="userid">	Required	Use user ID provided with registration.
<TrackID ID="#####">	Required Tag/ Required Value	Must be alphanumeric characters. For example: <TrackID ID="EJ123456780US"> </TrackID>

e.g., <TrackRequest USERID="yourID">

Live URL

To gain access, all users, including those registered for previous Web Tools use, must contact the ICCC for the URL to make Live calls. The ICCC will send the Live URL via e-mail.

Live XML Request Example

The Live XML request should be in the following form and sequence:

Track/Confirm Web Tool

```
<TrackRequest USERID="xxxxxxxx">
  <TrackID ID="EJ123456780US"></TrackID>
  <TrackID ID="EJ123456781US"></TrackID>
  <TrackID ID="12345"></TrackID>
</TrackRequest>
```

Step 2: Make the Internet Connection & Send the XML Request

This step involves four separate functions:

1. Making the connection to the USPS Shipping Web Tools server.
2. Sending the request (whether Visual Basic, Perl, ASP, or any other language).
3. Receiving the response from the Web Tools server.
4. Closing the Internet connection.

If you have recently registered, the registration e-mail will have the name of the server. If you are an existing user and do not have the name of the server, please contact the ICC. When sending the XML request, the Web Tool name must be specified. The server name can be found in your Web Tools registration e-mail. The Web Tool name is TrackV2. The format of the XML transaction is:

```
http://servername/ShippingAPI.dll?API=TrackV2&XML=<TrackRequest
USERID="username">...</TrackRequest>
```

Step 3: Unpack the XML Response

When the USPS Shipping Web Tools returns a response, it will either return a successful response document or an error document.

XML Output from Unpacked Response

After unpacking the XML response, you will have the output from your request—an XML response with the following tags:

Output	XML Tag
Type of Response	<TrackResponse>
Package Tracking ID Number	<TrackInfo ID="#####">
Guaranteed Delivery Date – Global Express Mail only: certain countries provide a guarantee delivery date	<GuaranteedDeliveryDate>
Tracking Summary Information	<TrackSummary>
Tracking Detail Information	<TrackDetail>

Live XML Response

The Track/Confirm Web Tool returns the following information if pickup is available to the supplied address:

XML Output Example

```
<TrackResponse>
  <TrackInfo ID="E123456780US">
```

```
<TrackSummary> Your item was delivered at 6:50 am on
February 6 in BARTOW FL 33830.</TrackSummary>
<TrackDetail>February 6 6:49 am NOTICE LEFT BARTOW FL
33830</TrackDetail>
<TrackDetail>February 6 6:48 am ARRIVAL AT UNIT BARTOW
FL 33830</TrackDetail>
<TrackDetail>February 6 3:49 am ARRIVAL AT UNIT
LAKELAND FL 33805</TrackDetail>
<TrackDetail>February 5 7:28 pm ENROUTE
33699</TrackDetail>
<TrackDetail>February 5 7:18 pm ACCEPT OR PICKUP
33699</TrackDetail>
</TrackInfo>
<TrackInfo ID="E123456781US">
  <TrackSummary There is no record of that mail item. If
  it was mailed recently, It may not yet be tracked.
  Please try again later. </TrackSummary>
</TrackInfo>
<TrackInfo ID="12345">
  <TrackSummary> That's not a valid number. Please check
  to make sure you entered it correctly.</TrackSummary>
</TrackInfo>
</TrackResponse>
```

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

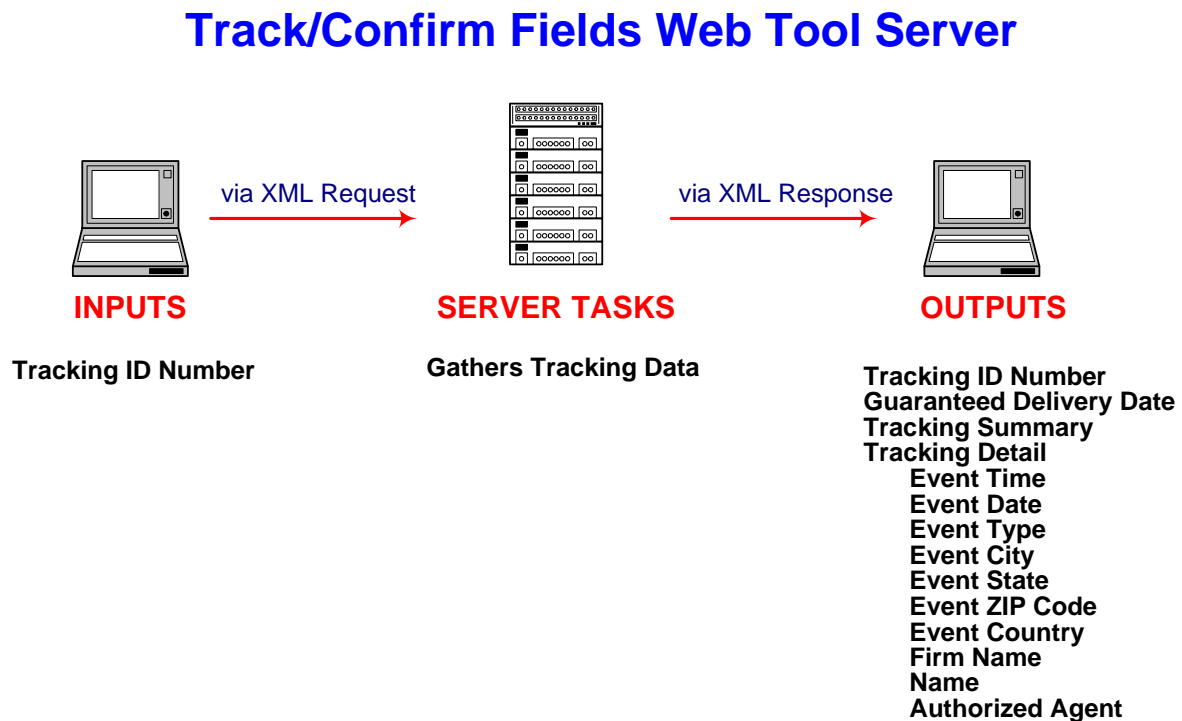


3.0 Track/Confirm Fields Web Tool

The Track/Confirm Fields request is identical to the Track/Confirm request except for the request name and the return information. Data returned still contains the detail and summary information, but this information is broken down into fields instead of having only one line of text. Up to 10 tracking IDs may be contained in each request input to the Web Tool server.

3.1 Track/Confirm Fields Web Tool Transaction Procedures

The illustration below shows the transactional flow of information to and from the USPS Track/Confirm Fields Web Tool server:



3.2 Run Scripted Test

Step 1: Build the XML Request

For testing purposes, the only values in the test code in this section that you should change are the user ID. Enter the user ID you received in the registration e-mail for testing. **All remaining code in the test scripts provided below must remain unchanged.**

Testing URL

To make test calls to the Track/Confirm Fields server, access is required to a server. Use the Testing URL provided in the registration e-mail.

Scripted Test Requests

There are two test requests included in this procedure. All of the test script code contained in this document can be cut and pasted for your use in testing the software. Be sure to note the request numbers so you can match up the responses you will receive as provided in the *Successful Test Responses* section.

Test Request #1

```
http://SERVERNAME/ShippingAPITest.dll?API=TrackV2&XML=
<TrackFieldRequest USERID="xxxxxxxx">
  <TrackID ID="EJ958083578US">
  </TrackID>
</TrackFieldRequest>
```

Test Request #2

```
http://SERVERNAME/ShippingAPITest.dll?API=TrackV2&XML=
<TrackFieldRequest USERID="xxxxxxxx">
  <TrackID ID="EJ958088694US">
</TrackFieldRequest>
```

Step 2: Make the Internet Connection & Send the XML Request

This step involves four separate functions:

1. Making the connection to the USPS Shipping Web Tools server.
2. Sending the request (whether Visual Basic, Perl, ASP, or any other language).
3. Receiving the response from the Web Tools server.
4. Closing the Internet connection.

If you have recently registered, the registration e-mail will have the name of the server. If you are an existing user and do not have the name of the server please contact the ICC. When sending the XML request, the Web Tool name must be specified. The server name can be found in your Web Tools registration e-mail. The Web Tool name is TrackV2. The format of the XML transaction is:

```
http://servername/ShippingAPITest.dll?API=TrackV2&XML=
<TrackFieldRequest USERID="username">...</TrackFieldRequest>
```

Step 3: Unpack the XML Response

When the USPS Shipping Web Tools returns a response, it will either return a successful response document or an error document.

Successful Test Response

For your test to be successful, the following responses to Valid Test Requests should be returned *verbatim*.

Response to Valid Test Request #1

```
<TrackResponse>
  <TrackInfo ID="EJ958083578US">
    <TrackSummary>
      <EventTime>8:10 am</EventTime>
      <EventDate>June 1, 2001</EventDate>
      <Event>DELIVERED</Event>
      <EventCity>WILMINGTON</EventCity>
      <EventState>DE</EventState>
      <EventZIPCode>19801</EventZIPCode>
      <EventCountry/>
      <FirmName></FirmName>
      <Name></Name>
      <AuthorizedAgent></AuthorizedAgent>
    </TrackSummary>
    <TrackDetail>
      <EventTime>11:07 am</EventTime>
      <EventDate>May 30, 2001</EventDate>
      <Event>NOTICE LEFT</Event>
      <EventCity>WILMINGTON</EventCity>
      <EventState>DE</EventState>
      <EventZIPCode>19801</EventZIPCode>
      <EventCountry/>
      <FirmName/>
      <Name/>
      <AuthorizedAgent/>
    </TrackDetail>
    <TrackDetail>
      <EventTime>10:08 am</EventTime>
      <EventDate>May 30, 2001</EventDate>
      <Event>ARRIVAL AT UNIT</Event>
      <EventCity>WILMINGTON</EventCity>
      <EventState>DE</EventState>
      <EventZIPCode>19850</EventZIPCode>
      <EventCountry/>
      <FirmName/>
      <Name/>
      <AuthorizedAgent/>
    </TrackDetail>
    <TrackDetail>
      <EventTime>9:55 pm</EventTime>
      <EventDate>May 29, 2001</EventDate>
```

```

    <Event>ACCEPTANCE</Event>
    <EventCity>EDGEWATER</EventCity>
    <EventState>NJ</EventState>
    <EventZIPCode>07020</EventZIPCode>
    <EventCountry/>
    <FirmName/>
    <Name/>
    <AuthorizedAgent/>
  </TrackDetail>
</TrackInfo>
</TrackResponse>

```

Response to Valid Test Request #2

```

<TrackResponse>
  <TrackInfo ID="EJ958088694US">
    <TrackSummary>
      <EventTime>1:39 pm</EventTime>
      <EventDate>June 1, 2001</EventDate>
      <Event>DELIVERED</Event>
      <EventCity>WOBURN</EventCity>
      <EventState>MA</EventState>
      <EventZIPCode>01815</EventZIPCode>
      <EventCountry/>
      <FirmName></FirmName>
      <AuthorizedAgent></AuthorizedAgent>
    </TrackSummary>
    <TrackDetail>
      <EventTime>7:44 am</EventTime>
      <EventDate>May 30, 2001</EventDate>
      <Event>NOTICE LEFT</Event>
      <EventCity>WOBURN</EventCity>
      <EventState>MA</EventState>
      <EventZIPCode>01815</EventZIPCode>
      <EventCountry/>
      <FirmName/>
      <Name/>
      <AuthorizedAgent/>
    </TrackDetail>
    <TrackDetail>
      <EventTime>7:36 am</EventTime>
      <EventDate>May 30, 2001</EventDate>
      <Event>ARRIVAL AT UNIT</Event>
      <EventCity>NORTH READING</EventCity>
      <EventState>MA</EventState>
      <EventZIPCode>01889</EventZIPCode>
      <EventCountry/>
      <FirmName/>
    </TrackDetail>
  </TrackInfo>
</TrackResponse>

```

```

    <Name/>
    <AuthorizedAgent/>
  </TrackDetail>
  <TrackDetail>
    <EventTime>6:00 pm</EventTime>
    <EventDate>May 29, 2001</EventDate>
    <Event>ACCEPTANCE</Event>
    <EventCity>PORTSMOUTH</EventCity>
    <EventState>NH</EventState>
    <EventZIPCode>03801</EventZIPCode>
    <EventCountry/>
    <FirmName/>
    <Name/>
    <AuthorizedAgent/>
  </TrackDetail>
</TrackInfo>
</TrackResponse>

```

Scripted Test Error Responses

If any values were changed in your request, the following default error will occur:

```

<Error>
  <Number>-2147219040</Number>
  <Source>SQLServerTest;solservertest.Track_Respond</Source>
  <Description>This Information has not been included in this
  TestServer.</Description>
  <HelpFile></HelpFile>
  <HelpContext></HelpContext>
</Error>

```

Although the input may be valid, the response will still raise this error, because those particular values have not been included in this test server. Refer to the *Error Responses* section for an explanation of any other returned errors.

Upon successful completion of the scripted test phase, call the ICCC. The ICCC will verify your test results and provide you with privileges necessary to proceed to the next step—running Live data.

3.3 Run Live Data

Step 1: Build the XML Request

Live XML Tags

The table below presents the XML input tags for generating Live requests and 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

Track/Confirm Fields Web Tool

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.

XML Tag	Required/ Optional	Description & Values Allowed
<TrackFieldRequest...	Required	Input tag exactly as presented.
...USERID="userid">	Required	Use user ID provided with registration.
<TrackID ID="#####">	Required Tag/ Required Value	Must be alphanumeric characters. For example: <TrackID ID="EJ123456780US"> </TrackID>

e.g., <TrackFieldRequest USERID="yourID">

Live URL

To gain access, all users, including those registered for previous Web Tools use, must contact the ICCC for the URL to make Live calls. The ICCC will send the Live URL via e-mail.

Live XML Request Example

The Live XML request should be in the following form:

```
<TrackFieldRequest USERID="xxxxxxxx">  
  <TrackID ID="EJ123456780US"></TrackID>  
  <TrackID ID="EJ123456781US"></TrackID>  
  <TrackID ID="12345"></TrackID>  
</TrackFieldRequest>
```

Step 2: Make the Internet Connection & Send the XML Request

This step involves four separate functions:

1. Making the connection to the USPS Shipping Web Tools server.
2. Sending the request (whether Visual Basic, Perl, ASP, or any other language).
3. Receiving the response from the Web Tools server.
4. Closing the Internet connection.

If you have recently registered, the registration e-mail will have the name of the server. If you are an existing user and do not have the name of the server, please contact the ICCC. When sending the XML request, the Web Tool name must be specified. The server name can be found in your Web Tools registration e-mail. The Web Tool name is TrackV2. The format of the XML transaction is:

```
http://servername/ShippingAPI.dll?API=TrackV2&XML=<TrackFieldReq  
uest USERID="username">...</TrackFieldRequest>
```

Step 3: Unpack the XML Response

When the USPS Shipping Web Tools returns a response, it will either return a successful response document or an error document.

XML Output from Unpacked Response

Output	XML Tag
Type of Response	<TrackResponse>
Package Tracking ID Number	<TrackInfo ID="#####">
Guaranteed Delivery Date – Global Express Mail only: certain countries provide a guarantee delivery date	<GuaranteedDeliveryDate>
Tracking Summary Information	<TrackSummary>
Tracking Detail Information	<TrackDetail>
The time of the event	<EventTime>
The date of the event	<EventDate>
The event type (e.g., Enroute)	<Event>
The city where the event occurred	<EventCity>
The state where the event occurred	<EventState>
The ZIP Code of the event	<EventZIPCode>
The country where the event occurred	<EventCountry>
The company name if delivered to a company	<FirmName>
The name of the persons signing for delivery (if available)	<Name>
True/False field indicating the person signing as an Authorized Agent	<AuthorizedAgent>

Live XML Output Example

The Track/Confirm Fields Web Tool returns the following information to the user.

```
<TrackResponse>
  <TrackInfo ID="01805213907042762274">
    <TrackSummary>
      <EventTime>12:12 pm</EventTime>
      <EventDate>May 21, 2001</EventDate>
      <Event>DELIVERED</Event>
      <EventCity>NEWTON</EventCity>
      <EventState>IA</EventState>
      <EventZIPCode>50208</EventZIPCode>
      <EventCountry/>
      <FirmName></FirmName>
      <Name></Name>
      <AuthorizedAgent></AuthorizedAgent>
    </TrackSummary>
    <TrackDetail>
      <EventTime>9:24 pm</EventTime>
      <EventDate>March 28, 2001</EventDate>
      <Event>ENROUTE</Event>
      <EventCity>DES MOINES</EventCity>
      <EventState>IA</EventState>
      <EventZIPCode>50395</EventZIPCode>
      <EventCountry/>
      <FirmName/>
      <Name/>
      <AuthorizedAgent/>
    </TrackDetail>
  </TrackInfo>
</TrackResponse>
```

```
<EventTime>10:00 pm</EventTime>
<EventDate>March 27, 2001</EventDate>
<Event>ACCEPTANCE</Event>
<EventCity>BLAINE</EventCity>
<EventState>WA</EventState>
<EventZIPCode>98231</EventZIPCode>
<EventCountry/>
<FirmName/>
<Name/>
<AuthorizedAgent/>
</TrackDetail>
</TrackInfo>
</TrackResponse>
```

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