



SWS for Individual Meters - Reference

Revision v2.0.56
27 June 2013

Stamps.com Confidential

Confidential, unpublished property Stamps.com, Inc. Use and distribution is limited solely to authorized personnel.

This document may contain confidential and privileged material for the sole use of the intended reader. Any review or distribution by others is strictly prohibited. If you are not the intended reader please contact the author and delete all copies.

The use, disclosure, reproduction, modification, transfer, or transmittal of this work for any purpose in any form or by any means without the explicit written permission of Stamps.com, Inc. is strictly prohibited.

Table of Contents

TABLE OF CONTENTS	2
1 INTRODUCTION.....	7
2 WEB METHODS	8
2.1 Overview	8
2.1.1 General Conventions.....	8
2.1.2 Authentication.....	8
2.2 AuthenticateWithTransferAuthenticator Web Method.....	9
2.3 AuthenticateUser Web Method.....	9
2.3.1 Example.....	9
2.4 CancelIndicium Web Method.....	10
2.4.1 Example.....	11
2.5 CarrierPickup Web Method.....	12
2.5.1 Example.....	12
2.6 CleanseAddress Web Method	13
2.6.1 Example.....	15
2.7 CreateIndicium Web Method.....	16
2.7.1 Example.....	17
2.8 CreateMailingLabelIndicia Web Method	20
2.9 CreateNetStampsIndicia Web Method	20
2.10 CreateScanForm Web Method.....	20
2.10.1 Example.....	20
2.11 CreateTestIndicium Web Method	22
2.12 CreateUnfundedIndicium Web Method.....	22
2.12.1 Example.....	23
2.13 EnumCostCodes Web Method	25
2.13.1 Example.....	26
2.14 EnumNetStampsLayouts Web Method.....	27
2.15 FinishPasswordReset Web Method	27
2.15.1 Example.....	28
2.16 FundUnfundedIndicium.....	28
2.16.1 Example.....	29
2.17 GetAccountInfo Web Method	30
2.17.1 Example.....	31
2.18 GetCodewordQuestions Web Method	32
2.18.1 Example.....	32
2.19 GetPurchaseStatus Web Method	33
2.19.1 Example.....	34
2.20 GetRates Web Method.....	35
2.20.1 Example.....	35
2.21 GetSupportedCountries Web Method.....	38
2.21.1 Example.....	39
2.22 GetURL Web Method	40
2.22.1 Example.....	41
2.23 PurchasePostage Web Method	42
2.23.1 Example.....	43

2.24	RegisterAccount Web Method.....	44
2.24.1	Example.....	44
2.25	ResubmitPurchase Web Method.....	45
2.26	StartPasswordReset Web Method	45
2.26.1	Example.....	46
2.27	TrackShipment Web Method.....	46
2.27.1	Example.....	47
2.28	VoidUnfundedIndicium.....	48
2.28.1	Example.....	49
2.29	ChangePassword Web Method	50
2.29.1	Example.....	51
2.30	CreateEnvelopeIndicium Web Method	52
2.30.1	Example.....	52
3	PRIMARY DATA OBJECTS.....	56
3.1	<AuthenticateUser> Object.....	56
3.2	<AuthenticateUserResponse> Object	56
3.3	<CancelIndicium> Object.....	56
3.4	<CancelIndiciumResponse> Object.....	57
3.5	<CarrierPickup> Object.....	57
3.6	<CarrierPickupResponse> Object.....	59
3.7	<CleanseAddress> Object	59
3.8	<CleanseAddressResponse> Object	59
3.9	<CreateIndicium> Object.....	62
3.10	<CreateIndiciumResponse> Object	66
3.11	<CreateScanForm> Object.....	67
3.12	<CreateScanFormResponse> Object	68
3.13	<CreateUnfundedIndicium> Object.....	69
3.14	<CreateUnfundedIndiciumResponse> Object	71
3.15	<EnumCostCodes> Object.....	72
3.16	<EnumCostCodesResponse> Object	72
3.17	<FinishPasswordReset> Object	72
3.18	<FinishPasswordResetResponse> Object.....	73
3.19	<FundUnfundedIndicium> Object	73
3.20	<FundUnfundedIndiciumResponse> Object.....	73
3.21	<GetAccountInfo> Object.....	74
3.22	<GetAccountInfoResponse> Object	74
3.23	<GetCodewordQuestions> Object	74
3.24	<GetCodewordQuestionsResponse> Object.....	75
3.25	<GetPurchaseStatus> Object	75
3.26	<GetPurchaseStatusResponse> Object.....	75
3.27	<GetRates> Object.....	76
3.28	<GetRatesResponse> Object	76
3.29	<GetSupportedCountries> Object.....	77
3.30	<GetSupportedCountriesResponse> Object	77
3.31	<GetURL> Object	77

3.32	<GetURLResponse> Object	78
3.33	<PurchasePostage> Object	78
3.34	<PurchasePostageResponse> Object	79
3.35	<RegisterAccount> Object	79
3.36	<RegisterAccountResponse> Object	81
3.37	<StartPasswordReset> Object	81
3.38	<StartPasswordResetResponse> Object	82
3.39	<TrackShipment> Object	82
3.40	<TrackShipmentResponse> Object	82
3.41	<VoidUnfundedIndicium> Object	83
3.42	<VoidUnfundedIndiciumResponse> Object	83
3.43	<ChangePassword> Object	83
3.44	<ChangePasswordResponse> Object	84
3.45	<CreateEnvelopeIndicium> Object	84
3.46	<CreateEnvelopeIndiciumResponse> Object	86
4	SECONDARY DATA OBJECTS	88
4.1	<AccountInfo> Object	88
4.2	<AchAccount> Object	89
4.3	<AddOn> Object	89
4.4	<Address> Object	90
4.5	<Capabilities> Object	93
4.6	<CostCode> Object	95
4.7	<CountryInfo> Object	95
4.8	<Credentials> Object	95
4.9	<CreditCard> Object	96
4.10	<Customs> Object	96
4.11	<CustomsLine> Object	97
4.12	<FromAddress> Object	98
4.13	<MachineInfo> Object	99
4.14	<PostageBalance> Object	99
4.15	<Rate> Object	99
4.16	<RequiresOneOf> Object	110
4.17	<StatusCodes> Object	110
4.18	<Footnote> Object	110
4.19	<DpvFootnote> Object	111
4.20	<TrackingEvent> Object	111
5	ENUMERATION TYPES	112
5.1	AccountType	112
5.2	AchAccountType	112
5.3	AddOnType	112
5.4	CarrierPickupLocation	114
5.5	CodewordType	114
5.6	ContentType	115

5.7	CreditCardType	115
5.8	EltronPrinterDPIType.....	115
5.9	ImageType	116
5.10	PackageType	116
5.11	PurchaseStatus.....	117
5.12	RegistrationStatus	117
5.13	ServiceType.....	118
5.14	TrackingEventType.....	118
5.15	URLType	119
5.16	ResidentialDeliveryIndicatorType	121
5.17	CreateIndiciumMode.....	122
5.18	NonDeliveryOption	122
6	SOAP FAULTS.....	124
6.1	Example	124
7	APPENDIX A – SOAP 1.1	125
7.1	SOAP.....	125
7.1.1	SOAP Envelope.....	125
7.1.2	SOAP Header.....	125
7.1.3	SOAP Body	126
7.1.4	SOAP Fault.....	126
7.1.5	SOAP over HTTP	127
7.2	WSDL.....	127
7.2.1	Document/literal Binding	128
7.3	Tools.....	128
8	APPENDIX B – SWS WSDL.....	129
9	APPENDIX C – ERROR CODES.....	130
10	APPENDIX D – VERSION NOTES	171
10.1	<CustomsLine> Elements	171
10.2	ServiceType US-PP.....	171
10.3	AddOn US-A-WDS.....	171
11	APPENDIX E – PACKAGE TYPES AND MAIL CLASSES.....	172
11.1	US-PMI.....	172
11.2	US-CM	172
12	APPENDIX F – E DEL CON SUPPORT FOR INTERNATIONAL MAIL.....	174
13	APPENDIX G – BEST PRACTICES TO PRINT ON CERTIFIED MAIL FORMS.....	175
14	DOCUMENT REVISION HISTORY	176

License

Copyright © 2008-2011, Stamps.com Inc., All Rights Reserved

The information in this document is furnished for information use only. It is subject to change without notice and should not be construed as a commitment by Stamps.com to any current or future developments. Stamps.com assumes no responsibility or liability for any errors or inaccuracies that may appear in this document. The software described in this document is provided separately pursuant to its license and may only be used or copied in accordance with the terms of that license.

Stamps.com Web Services is covered by and/or for use with U.S. Patents 5,510,992, 5,682,318, 5,717,597, 5,801,944, 5,812,991, 6,249,777, 6,868,406, 6,889,214, 7,216,110, 7,236,956, 7,236,970, 7,458,612, 7,490,065, 7,567,940, 7,613,639, and 7,765,168.

Trademarks

"Stamps.com," the Stamps.com logo, "Stamps.com Internet Postage," "internetpostage.com," "Postage Server," and "Postage from your Printer" are trademarks or registered trademarks of Stamps.com, Inc. in the United States and/or other countries. Stamps.com's trademarks may not be used in connection with any product or service that is not Stamps.com's, in any manner that is likely to cause confusion among customers, or in any manner that disparages or discredits Stamps.com. All other products or name brands are trademarks of their respective holders.

Disclaimer

THIS DOCUMENT IS PROVIDED BY STAMPS.COM ON AN "AS IS" BASIS. STAMPS.COM MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, AS TO THE INFORMATION, CONTENT, MATERIALS OR PRODUCTS, INCLUDED IN THIS DOCUMENT. TO THE FULL EXTENT PERMISSIBLE BY APPLICABLE LAW, STAMPS.COM DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. STAMPS.COM WILL NOT BE LIABLE FOR ANY DAMAGES OF ANY KIND ARISING FROM THE USE OF THIS DOCUMENT, INCLUDING BUT NOT LIMITED TO DIRECT, INDIRECT, INCIDENTAL, PUNITIVE, AND CONSEQUENTIAL DAMAGES.

1 Introduction

The Stamps.com Web Services (SWS) API provides web services for creating an integrated solution for shipping via the United States Postal Service (USPS). The integrator will be able to create shipping labels, calculate the shipping cost of packages, standardize domestic addresses via USPS CASS certified Address Matching Software, and track shipments. The integrator controls the end-user experience and Stamps.com servers handle all the label generation, USPS compliance, and rate calculations.

This document describes the Stamps.com Web Services for Individual Meters (SWS/IM). This set of web services allows the integrator to control the end-user experience for users that are direct customers of Stamps.com. The users of the integrator's product must also be Stamps.com customers in order to use the integration. Please contact Stamps.com if this model is not appropriate for the intended integration. Stamps.com offers alternative web services for other models, such as those where the end-user is not a Stamps.com customer, but rather prints postage that is re-sold through the integrator's application.

This table illustrates the steps to integrate the SWS API into an application.

Sample Workflow	
STEP 1: Standardize Shipping Address	
CleanseAddress	Ship-to addresses must be standardized based on USPS rules for proper address conventions before a shipping label can be issued.
STEP 2: Get Rates	
GetRates	A call to <code>GetRates</code> will allow users to view and select the best shipping service for their needs. See page 35 for more information.
STEP 3: Generate the Shipping Label	
CreateIndicium CancelIndicium	<p>After the user has selected a shipping service and standardized their ship-to address, the <code>CreateIndicium</code> web method call will generate the indicium required to ship the item.</p> <p>For more information on creating the indicium, see <code>CreateIndicium</code> on page 16.</p> <p>If the customer changes their mind, they may want to select an option that initiates a <code>CancelIndicium</code>. <code>CancelIndicium</code> refunds postage and voids the shipping label.</p>
STEP 4: Print the Shipping Label	
Call the returned URL to obtain the shipping label image.	<p>A URL is returned by the <code>CreateIndicium</code> call in the <code><URL></code> element. The integration will connect to this URL to retrieve their shipping label and customs forms for printing.</p> <p>Note: it is not recommended to simply connect a browser to this URL and print with the browser. The image retrieved is generally scaled for a printer and will be too large on the screen. Printing from the browser in this state will result in a label that is too large. At a minimum, the URL returned from <code>CreateIndicium</code> should be wrapped in an HTML <code></code> tag using the width and height attributes or CSS to set the actual size of the printed label.</p>

2 Web Methods

2.1 Overview

The SWS API is a document/literal style SOAP 1.1 Web service. The service uses HTTPS as its transport protocol. For more information on SOAP 1.1, please review section 7. Appendix A – SOAP 1.1 on page 108.

2.1.1 General Conventions

- All methods are initial upper-case for first word, initial caps for second (e.g., `GetRates` or `CleanseAddress`)
- The method name is identified in the HTTP request as part of the value for the `SOAPAction` header.
- Each method or "API call" has an associated request and response object named after the method.
- Each method may fail with a SOAP fault. The SOAP fault will contain a `<detail>` element that contains both an error code and text that may be displayed to the user. The error code should be used by the integration to deal with expected errors. If the integration cannot handle the error, the text may be displayed to the user.

Example:

The `GetRates` method has a `<GetRates>` (page 76) XML object that is sent as part of the `GetRates` request and a `<GetRatesResponse>` (page 76) object that is returned.

All of the XML objects used by the SWS API are defined within an XML namespace (<http://www.w3.org/TR/REC-xml-names/>). The specific namespace is "http://stamps.com/xml/namespace/2013/05/swsim/swsimv29".

The SWS API supports UTF-8 encoding of the XML.

2.1.2 Authentication

All web methods require authentication information to be supplied in order to identify the user and ensure that the user is authorized to perform the operation. It is through the authentication information that SWS identifies the particular account and USPS meter that the operation is being performed against.

Authentication information can come in one of two forms:

- A `<Credentials>` object (page 95) that contains an `IntegrationID`, a `Username`, and a `Password`. The `IntegrationID` is assigned to the integrator by Stamps.com. Only authorized integrators may create integrations using the SWS API. The `Username` and `Password` are to be obtained from the end-user and identify the particular Stamps.com account and USPS meter.
- An `Authenticator` string returned from a previous web method call. All web methods return a new `Authenticator` to be used in subsequent calls. By using an `Authenticator`, the integration can be sure that the conversation between the integration and the SWS server is kept in sync and no messages have been lost.

It is recommended that an integration start a session with the `AuthenticateUser` web method (page 9) and use the returned `Authenticator` string in all subsequent requests in the session, updating it after each web method

call. In this way, the user's password need only be transmitted to the SWS server once and the SWS server will ensure that no messages are lost without notice due to network problems.

2.2 AuthenticateWithTransferAuthenticator Web Method

This feature is for internal use only.

2.3 AuthenticateUser Web Method

The `AuthenticateUser` web method is used to start a session between the integration and the SWS server. Unlike the other web methods, this web method requires a `Credentials` object as input and will not accept an `Authenticator`. An `Authenticator` string will be returned on success.

AuthenticateUser	
Request	<AuthenticateUser> object (page 56)
Response	<AuthenticateUserResponse> object (page 56)
Expected Errors	<p>If an error occurs, the response will be a SOAP fault (page 121). The following error codes are common for this web method:</p> <p>0x002b0601 – Authentication Failed: This error is returned if an incorrect username or password is given.</p> <p>0x002b0605 – Password Reset: This error is returned if the user has used a temporary password to authenticate. In this case, the integration must get a new password from the user and call the <code>FinishPasswordReset</code> web method</p>

2.3.1 Example

Authenticate user "test" with password "password1".

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/AuthenticateUser"
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soap:Body>
    <tns:AuthenticateUser>
      <tns:Credentials>
        <tns:IntegrationID>***integrationid***</tns:IntegrationID>
        <tns:Username>test</tns:Username>
        <tns>Password>password1</tns>Password>
      </tns:Credentials>
    </tns:AuthenticateUser>
  </soap:Body>
```

```
</soap:Envelope>
```

Response:

```
HTTP 200
Server: ASP.NET Development Server/8.0.0.0
Date: Sat, 29 Aug 2009 00:17:20 GMT
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: #####
Connection: Close

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <AuthenticateUserResponse
xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
      <Authenticator>***authenticator***</Authenticator>
    </AuthenticateUserResponse>
  </soap:Body>
</soap:Envelope>
```

2.4 CancelIndicium Web Method

Cancels a previously issued indicium and submits a request for a refund of postage. Upon making a `CancelIndicium` call, the postage that was printed is invalidated, and in the background, a request for a refund is batched up to be sent later that day to the USPS. The refund requests are then analyzed and processed by the USPS who then reports the results back to Stamps.com. Stamps.com will then credit the user's meter.

CancelIndicium	
Request	<CancelIndicium> object (page 56)
Response	<CancelIndiciumResponse> object (page 57)
Expected Errors	<p>If an error occurs, the response will be a SOAP fault (page 121). The following error codes are common for this web method:</p> <p>0x002b0202 – Expired Authenticator: The <code>Authenticator</code> string used to authenticate for the web method call has expired. Authenticators are only valid for 24 hours. The integration should prompt the user to re-enter their password and start a new session with the <code>AuthenticateUser</code> web method.</p> <p>0x002b0203 – Invalid Conversation Token: The <code>Authenticator</code> string used to authenticate for the web method call contains an invalid conversation token. This can occur if the <code>Authenticator</code> sent in request has been invalidated by a login through another instance of the integration. Note: users are restricted to using only one instance of a particular integration at a time. The integration should correct this error by calling the <code>AuthenticateUser</code> web method again and retrying the operation.</p> <p>0x002b0204 – Conversation Out-of-Sync: This error is returned if a prior <code>Authenticator</code> string is re-used. This is an indication that a response message from a previous web method call was lost on the network. The user should be warned and the session can be resynchronized with a call to the <code>AuthenticateUser</code> web method.</p>

	<p>0x00450205 - E/refund not allowed (replaces the equivalent 0x003c0101 below). This error is returned if for some reason the refund is not allowed for the specified indicium. The reason will be provided in the additional information of the SOAP fault.</p> <p>0x003c0101 — Refund Not Allowed: This error is returned if for some reason the refund is not allowed for the specified indicium. The reason will be provided in the additional information of the SOAP fault.</p> <p>0x00450201 - CancelIndicium called on an old transaction. Indicium too old to cancel (replaces the equivalent 0x003c0102 below). Note the refund requests must be submitted within 240 hours of calling the CreateIndicium web method. If that time window has passed, this error will be returned.</p> <p>0x003c0102 — Refund Time Expired: Refund requests must be submitted within 48 hours of calling the CreateIndicium web method. If that time window has passed, this error will be returned.</p> <p>0x00450202 - Non-existing transaction (replaces the equivalent 0x003c0103 below). The specified transaction ID was not found or was not associated with the current user.</p> <p>0x003c0103 — Invalid Transaction ID: The specified transaction ID was not found or was not associated with the current user.</p>
--	--

2.4.1 Example

Cancel an indicium which previously returned "c605aec1-322e-48d5-bf81-b0bb820f9c22" as the StampsTxID string.

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/CancelIndicium"
Content-Length: ####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soap:Body>
    <tns:CancelIndicium>
      <tns:Authenticator>***authenticator***</tns:Authenticator>
      <tns:StampsTxID> c605aec1-322e-48d5-bf81-b0bb820f9c22</tns:StampsTxID>
    </tns:CancelIndicium>
  </soap:Body>
</soap:Envelope>
```

Response:

```
HTTP 200
Server: Microsoft-IIS/5.1
Date: Mon, 31 Aug 2009 19:14:29 GMT
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: ####
```

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <CancelIndiciumResponse
xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
      <Authenticator>***authenticator***</Authenticator>
    </CancelIndiciumResponse>
  </soap:Body>
</soap:Envelope>
```

2.5 CarrierPickup Web Method

The CarrierPickup web method allows integrators to request USPS to pick up mail pieces from a specified location.

CarrierPickup	
Request	<CarrierPickup> object (page 57)
Response	<CarrierPickupResponse> object (page 59)
Expected Errors	<p>If an error occurs, the response will be a SOAP fault (page 121). The following error codes are common for this web method:</p> <p>0x002b0202 – Expired Authenticator: The <code>Authenticator</code> string used to authenticate for the web method call has expired. Authenticators are only valid for 24 hours. The integration should prompt the user to re-enter their password and start a new session with the <code>AuthenticateUser</code> web method.</p> <p>0x002b0203 – Invalid Conversation Token: The <code>Authenticator</code> string used to authenticate for the web method call contains an invalid conversation token. This can occur if the <code>Authenticator</code> sent in request has been invalidated by a login through another instance of the integration. Note: users are restricted to using only one instance of a particular integration at a time. The integration should correct this error by calling the <code>AuthenticateUser</code> web method again and retrying the operation.</p> <p>0x002b0204 – Conversation Out-of-Sync: This error is returned if a prior <code>Authenticator</code> string is re-used. This is an indication that a response message from a previous web method call was lost on the network. The user should be warned and the session can be resynchronized with a call to the <code>AuthenticateUser</code> web method.</p>

2.5.1 Example

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/CarrierPickup"
Content-Length: ###

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```

xmlns:s="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soap:Body>
    <tns:CarrierPickup>
      <tns:Authenticator>***authenticator***</tns:Authenticator>
      <tns:FirstName>Geoff</tns:FirstName>
      <tns:LastName>Anton</tns:LastName>
      <tns:Address>12959 Coral Tree Place</tns:Address>
      <tns:City>Los Angeles</tns:City>
      <tns:State>CA</tns:State>
      <tns:ZIP>90066</tns:ZIP>
      <tns:PhoneNumber>1231231234</tns:PhoneNumber>
      <tns:NumberOfPriorityMailPieces>1</tns:NumberOfPriorityMailPieces>
      <tns:TotalWeightOfPackagesLbs>3</tns:TotalWeightOfPackagesLbs>
      <tns:PackageLocation>BackDoor</tns:PackageLocation>
    </tns:CarrierPickup>
  </soap:Body>
</soap:Envelope>

```

Response:

```

HTTP 200
Content-Length: #####
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Date: Fri, 28 Jan 2011 22:31:48 GMT
Server: Microsoft-IIS/7.5
X-AspNet-Version: 2.0.50727
X-Powered-By: ASP.NET

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <CarrierPickupResponse
xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
      <Authenticator>***authenticator***</Authenticator>
      <PickupDate>01/29/2011</PickupDate>
      <PickUpDayOfWeek>Saturday</PickUpDayOfWeek>
      <ConfirmationNumber>WTC7812296</ConfirmationNumber>
    </CarrierPickupResponse>
  </soap:Body>
</soap:Envelope>

```

2.6 CleanseAddress Web Method

The `CleanseAddress` method accepts an address and presents a standardized shipping address that complies with the USPS address formatting guidelines. The integration calling `CleanseAddress` is required to use the supplied standardized address, unless the city, state, and ZIP Code are a valid combination. International addresses are not standardized, but the country name is validated against the official USPS list of supported countries.

The `CleanseAddress` method expects as input a `<CleanseAddress>` object and returns a `<CleanseAddressResponse>` object.

The `<CleanseAddressResponse>` object contains a `<CleanseHash>` and/or an `<OverrideHash>`, one of which must be passed along when the address is ultimately submitted to `CreateIndicium`.

How to process the response for a Domestic address:

- If `<AddressMatch>` is true

The `<CleanseAddressResponse>` will contain a standardized address and two additional fields: `<AddressMatch>` and `<CityStateZipOK>`. If `<AddressMatch>` is true, the address was matched with the USPS database and may contain corrections to the formatting. Example: '123 Main Street' may be returned as '123 Main St'. Present any adjustments to the customer and request them to accept the changes. If the customer accepts the changes, the value returned in `<CleanseHash>` should be used in the `<To>` address provided to the `CreateIndicium` method.

If the customer does not accept the changes, most of the original address can be used in the `CreateIndicium` call as long as the returned City, State, and ZIP are used with the `OverrideHash`.

- If `<AddressMatch>` is false and `<CityStateZipOK>` is true

Typically, an `<AddressMatch>` of false indicates a severe address issue. The address is ambiguous, missing required information, or doesn't exist. The original street address will be returned unaltered. The customer should be informed that the output City, State, and ZIP Code are correct but that the street address was not found. A `<CleanseHash>` code will not be returned with the address, but an `<OverrideHash>` will be.

This address can be submitted for printing with the returned `<OverrideHash>` code.

- If `<CityStateZipOK>` is false

If `<CityStateZipOK>` is false the address cannot be shipped to and neither a `<CleanseHash>` nor an `<OverrideHash>` code will be returned. Inform the user that the city, state, and ZIP Code are invalid.

How to process the response for an International address:

- If `<AddressMatch>` is true

The `<CleanseAddressResponse>` will contain the address and an additional `<AddressMatch>` field. If `<AddressMatch>=true`, the address was matched against the USPS country names database and may contain corrections to the formatting. Example: 'Candada' may be returned as 'Canada'. Present any adjustments to the customer and request them to accept the changes. If the customer accepts the changes, the value returned in `<CleanseHash>` should be used in the `<To>` address provided to the `CreateIndicium` method.

If the customer does not accept the changes, the original address can be used in the `CreateIndicium` call as long as the returned Country is used with the `OverrideHash`.

- If `<AddressMatch>` is false

If `<AddressMatch>` is false the address cannot be shipped to, and neither a `<CleanseHash>` nor an `<OverrideHash>` code will be returned. Inform the user that the Country is invalid.

CleanseAddress

Request	<CleanseAddress> object (page 57)
Response	<CleanseAddressResponse> object (page 59)
Expected Errors	<p>If an error occurs, the response will be a SOAP fault (page 121). The following error codes are common for this web method:</p> <p>0x002b0202 – Expired Authenticator: The <code>Authenticator</code> string used to authenticate for the web method call has expired. Authenticators are only valid for 24 hours. The integration should prompt the user to re-enter their password and start a new session with the <code>AuthenticateUser</code> web method.</p> <p>0x002b0203 – Invalid Conversation Token: The <code>Authenticator</code> string used to authenticate for the web method call contains an invalid conversation token. This can occur if the <code>Authenticator</code> sent in request has been invalidated by a login through another instance of the integration. Note: users are restricted to using only one instance of a particular integration at a time. The integration should correct this error by calling the <code>AuthenticateUser</code> web method again and retrying the operation.</p> <p>0x002b0204 – Conversation Out-of-Sync: This error is returned if a prior <code>Authenticator</code> string is re-used. This is an indication that a response message from a previous web method call was lost on the network. The user should be warned and the session can be resynchronized with a call to the <code>AuthenticateUser</code> web method.</p>

2.6.1 Example

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/CleanseAddress"
Content-Length: ###

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soap:Body>
    <tns:CleanseAddress>
      <tns:Authenticator>***authenticator***</tns:Authenticator>
      <tns:Address>
        <tns:FullName>Geoff Anton</tns:FullName>
        <tns:Company>Stamps.com</tns:Company>
        <tns:Address1>12959 Coral Tree Place</tns:Address1>
        <tns:City>Los Angeles</tns:City>
        <tns:State>CA</tns:State>
        <tns:ZIPCode>90066</tns:ZIPCode>
      </tns:Address>
    </tns:CleanseAddress>
  </soap:Body>
</soap:Envelope>
```

Response:

```
HTTP 200
Server: Microsoft-IIS/5.1
Date: Mon, 31 Aug 2009 19:41:24 GMT
X-Powered-By: ASP.NET
```

```

X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <CleanseAddressResponse
xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
      <Authenticator>***authenticator***</Authenticator>
      <Address>
        <FullName>GEOFF ANTON</FullName>
        <Company>STAMPS.COM</Company>
        <Address1>12959 CORAL TREE PL</Address1>
        <Address2 />
        <City>LOS ANGELES</City>
        <State>CA</State>
        <ZIPCode>90066</ZIPCode>
        <ZIPCodeAddOn>7020</ZIPCodeAddOn>
        <DPB>59</DPB>
        <CheckDigit>6</CheckDigit>
        <Urbanization />

      <CleanseHash>7SWYAzunh82cWhIQyRFXRNa71HFkZWfKYmVlZg==20100210</CleanseHash>

      <OverrideHash>Tdwp4JlTc02DhscYxbI7l7o08apkZWfKYmVlZg==20100210</OverrideHash>
    </Address>
    <AddressMatch>true</AddressMatch>
    <CityStateZipOK>true</CityStateZipOK>
  </CleanseAddressResponse>
</soap:Body>
</soap:Envelope>

```

2.7 CreateIndicium Web Method

The `CreateIndicium` method generates the postage indicium based on the shipping information provided in the request.

The SWS API will return a URL that references either an image of the domestic shipping label or a multi-page PDF document for international, APO/FPO or US Territories labels with customs forms.

Note: Users must not be able to point back to this URL to reprint a shipping label after the ship date has passed.

Special Considerations:

- **Fault-Tolerance:** The `CreateIndicium` method can be called multiple times with the same `IntegratorTxID`. If the initial call to `CreateIndicium` fails due to network or other errors, the call may be repeated to `CreateIndicium` with the same `IntegratorTxID`. The risk of double-billing for postage is eliminated by the integrator building a rollback / retry process.
- `GetRates` may return multiple `<Rate>` objects along with any associated `<AddOn>` secondary objects. Select the desired `<Rate>` object from the `GetRates` response and specify only that one `<Rate>` rate object, with any desired `<AddOn>`s, in the `CreateIndicium` call.

- For Media Mail or Parcel Post, if neither delivery confirmation nor signature confirmation is specified in Add-on, the generated label will not have tracking number on it. With Parcel Post being discontinued on Jan 27th 2013, it is being replaced by Parcel Select in SWS/IM upon release. Any calls from interfaces upto and including swsimv25 for Parcel Post will generate a Parcel Select label and include a tracking number in this case.

CreateIndicium	
Request	<CreateIndicium> object (page 62)
Response	<CreateIndiciumResponse> object (page 66)
Expected Errors	<p>If an error occurs, the response will be a SOAP fault (page 121). The following error codes are common for this web method:</p> <p>0x002b0202 – Expired Authenticator: The <code>Authenticator</code> string used to authenticate for the web method call has expired. Authenticators are only valid for 24 hours. The integration should prompt the user to re-enter their password and start a new session with the <code>AuthenticateUser</code> web method.</p> <p>0x002b0203 – Invalid Conversation Token: The <code>Authenticator</code> string used to authenticate for the web method call contains an invalid conversation token. This can occur if the <code>Authenticator</code> sent in request has been invalidated by a login through another instance of the integration. Note: users are restricted to using only one instance of a particular integration at a time. The integration should correct this error by calling the <code>AuthenticateUser</code> web method again and retrying the operation.</p> <p>0x002b0204 – Conversation Out-of-Sync: This error is returned if a prior <code>Authenticator</code> string is re-used. This is an indication that a response message from a previous web method call was lost on the network. The user should be warned and the session can be resynchronized with a call to the <code>AuthenticateUser</code> web method.</p> <p>0x80040414 – Insufficient Postage: There is insufficient postage in the account to print a single indicium. The integration may use the <code>PurchasePostage</code> web method to replenish the meter and try again.</p>

2.7.1 Example

The example below demonstrates a `CreateIndicium` call for a Priority Mail shipment with Stamps.com insurance.

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/CreateIndicium"
Content-Length: ####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soap:Body>
    <tns:CreateIndicium>
      <tns:Authenticator>***authenticator***</tns:Authenticator>
```

```

<tns:IntegratorTxID>1234567890ABCDEF</tns:IntegratorTxID>
<tns:TrackingNumber/>
<tns:Rate>
  <tns:FromZIPCode>90405</tns:FromZIPCode>
  <tns:ToZIPCode>90066</tns:ToZIPCode>
  <tns:Amount>10</tns:Amount>
  <tns:ServiceType>US-PM</tns:ServiceType>
  <tns:DeliverDays>1-1</tns:DeliverDays>
  <tns:WeightLb>12</tns:WeightLb>
  <tns:WeightOz>0</tns:WeightOz>
  <tns:PackageType>Package</tns:PackageType>
  <tns:ShipDate>2009-08-31</tns:ShipDate>
  <tns:InsuredValue>100.00</tns:InsuredValue>
  <tns:RectangularShaped>false</tns:RectangularShaped>
  <tns:AddOns>
    <tns:AddOn>
      <tns:Amount>0</tns:Amount>
      <tns:AddOnType>US-A-DC</tns:AddOnType>
    </tns:AddOn>
    <tns:AddOn>
      <tns:Amount>1.3</tns:Amount>
      <tns:AddOnType>SC-A-INS</tns:AddOnType>
    </tns:AddOn>
  </tns:AddOns>
</tns:Rate>
<tns:From>
  <tns:FullName>Some Body</tns:FullName>
  <tns:Address1>3420 Ocean Park Bl</tns:Address1>
  <tns:Address2>Ste 1000</tns:Address2>
  <tns:City>Santa Monica</tns:City>
  <tns:State>CA</tns:State>
  <tns:ZIPCode>90405</tns:ZIPCode>
</tns:From>
<tns:To>
  <tns:FullName>GEOFF ANTON</tns:FullName>
  <tns:NamePrefix/>
  <tns:FirstName/>
  <tns:MiddleName/>
  <tns:LastName/>
  <tns:NameSuffix/>
  <tns>Title/>
  <tns:Department/>
  <tns:Company>STAMPS.COM</tns:Company>
  <tns:Address1>12959 CORAL TREE PL</tns:Address1>
  <tns:Address2/>
  <tns:City>LOS ANGELES</tns:City>
  <tns:State>CA</tns:State>
  <tns:ZIPCode>90066</tns:ZIPCode>
  <tns:ZIPCodeAddOn>7020</tns:ZIPCodeAddOn>
  <tns:DPB>59</tns:DPB>
  <tns:CheckDigit>6</tns:CheckDigit>
  <tns:Province/>
  <tns:PostalCode/>
  <tns:Country/>
  <tns:Urbanization/>
  <tns:PhoneNumber/>
  <tns:Extension/>

<tns:CleanseHash>7SWYAzuNh82cWhIQyRFXRNa71HFkZWFkYmVlZg==20070513</tns:CleanseHash>

```

```
</tns:To>
</tns:CreateIndicium>
</soap:Body>
</soap:Envelope>
```

Response:

```
HTTP 200
Server: Microsoft-IIS/5.1
Date: Mon, 31 Aug 2009 18:58:01 GMT
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <CreateIndiciumResponse
xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
      <Authenticator>***authenticator***</Authenticator>
      <IntegratorTxID>1234567890ABCDEF</IntegratorTxID>
      <TrackingNumber>9101010521290895036903</TrackingNumber>
      <Rate>
        <FromZIPCode>90405</FromZIPCode>
        <ToZIPCode>90066</ToZIPCode>
        <Amount>10.36</Amount>
        <ServiceType>US-PM</ServiceType>
        <DeliverDays>1-3</DeliverDays>
        <WeightLb>12</WeightLb>
        <PackageType>Package</PackageType>
        <ShipDate>2009-08-31</ShipDate>
        <InsuredValue>100.00</InsuredValue>
        <RectangularShaped>false</RectangularShaped>
        <DimWeighting>N</DimWeighting>
        <AddOns>
          <AddOn>
            <AddOnType>US-A-DC</AddOnType>
          </AddOn>
          <AddOn>
            <Amount>1.85</Amount>
            <AddOnType>SC-A-INS</AddOnType>
          </AddOn>
        </AddOns>
      </Rate>
      <StampsTxID>d71c4ade-df96-4b25-b86a-ccda81e63c63</StampsTxID>
      <URL>https://swsim.testing.stamps.com/label/label.ashx/label-
200.png?AQAAAGB-i0NN-csIcShCpDSg-K61rleiukS92KSBUEJ4nONMtWIQuOclc33afVXxHVlnbjU-
s0kWOCZRMZfnrITj_tWa065sNbZIZ2BmFGxgYGHuYGBmaGzJ5pdf1JuYwwTUyxmcn5uq4JSfUvn__38hY
xMjAwX_5NTEPIWAXKJsBaccjuCSVAVDaWOD_zzBiXkliQq--
XmZyYlMzo6slgYmBqb_zMDTeF2d_V3c1Nw9Avx92Ng4AoOcfQNCNZz9vcVNjSyNLVUcPYPcvRRCalydV
UI8GH4z8Dt4x8MVO3u6uMaDDHKwMyMxdzAyIDJ1JLRjDc0L7MkNUUhuCSxJLWY4f8BhgMMEOsYeVgYkAA
TA0MkKyOIBfKgdR0zowqTFgNDhQbD-
X4jxkvxjAzPdSNGVjAKpfMZ2IwEOAxUD06U3WGWDBf2quDF6e8DYwo-bXzddQmfx-3T_Km-
2f3xPlu28eq7Gb7kIGluLw4M1fM0tAABE2NgH4xsLA0NTA2szQwZjggKvf0-2kOhhklp-
R_n05gFFBHdd1OB1Q-238GWgFGRkbD0yAaACGfd30=</URL>
      <PostageBalance>
        <AvailablePostage>#####.##</AvailablePostage>
```

```

    <ControlTotal>####.##</ControlTotal>
  </PostageBalance>
</CreateIndiciumResponse>
</soap:Body>
</soap:Envelope>

```

2.8 CreateMailingLabelIndicia Web Method

This feature is not available for all integrations.

2.9 CreateNetStampsIndicia Web Method

This feature is not available for all integrations.

2.10 CreateScanForm Web Method

The `CreateScanForm` method generates a SCAN form for previously created indicium.

The SWS API will return a URL or a series of URLs separated by spaces for the SCAN form.

CreateScanForm	
Request	<CreateScanForm> object (page 67)
Response	<CreateScanFormResponse> object (page 68)
Expected Errors	<p>If an error occurs, the response will be a SOAP fault (page 121). The following error codes are common for this web method:</p> <p>0x002b0202 – Expired Authenticator: The <code>Authenticator</code> string used to authenticate for the web method call has expired. Authenticators are only valid for 24 hours. The integration should prompt the user to re-enter their password and start a new session with the <code>AuthenticateUser</code> web method.</p> <p>0x002b0203 – Invalid Conversation Token: The <code>Authenticator</code> string used to authenticate for the web method call contains an invalid conversation token. This can occur if the <code>Authenticator</code> sent in request has been invalidated by a login through another instance of the integration. Note: users are restricted to using only one instance of a particular integration at a time. The integration should correct this error by calling the <code>AuthenticateUser</code> web method again and retrying the operation.</p> <p>0x002b0204 – Conversation Out-of-Sync: This error is returned if a prior <code>Authenticator</code> string is re-used. This is an indication that a response message from a previous web method call was lost on the network. The user should be warned and the session can be resynchronized with a call to the <code>AuthenticateUser</code> web method.</p>

2.10.1 Example

The example below demonstrates a `CreateScanForm` call for previously created indicium with `StampsTxID` A5ED206D-D840-4A40-B314-93021391D9D0 and EE1DBEE9-809D-422A-9502-EE9756163619.

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
```

Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/CreateScanForm"
Content-Length: #####

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soap:Body>
    <tns:CreateScanForm>
      <tns:Authenticator>***authenticator***</tns:Authenticator>
      <tns:StampsTxIDs>
        <tns:guid>A5ED206D-D840-4A40-B314-93021391D9D0</tns:guid>
        <tns:guid>EE1DBEE9-809D-422A-9502-EE9756163619</tns:guid>
      </tns:StampsTxIDs>
      <tns:FromAddress>
        <tns:name_>Some Body</tns:name_>
        <tns:address_1_>3420 Ocean Park Bl</tns:address_1_>
        <tns:city_>Santa Monica</tns:city_>
        <tns:state_>CA</tns:state_>
        <tns:zip_code_>90405</tns:zip_code_>
      </tns:FromAddress>
      <tns:ImageType>pdf</tns:ImageType>
      <tns:PrintInstructions>true</tns:PrintInstructions>
    </tns:CreateScanForm>
  </soap:Body>
</soap:Envelope>
```

Response:

HTTP 200
Server: Microsoft-IIS/5.1
Date: Mon, 31 Aug 2009 18:58:01 GMT
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: #####

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <CreateScanFormResponse
xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
      <Authenticator>***authenticator***</Authenticator>
      <ScanFormId>9150010521297892522640</ScanFormId>
      <Url> https://swsim.testing.stamps.com/Label/scanform.ashx/scanform-
200.pdf?AQAAANClr4GgQswICQCRE25YbbNJoFh3vMorYewstgh4nHWMMQrCQBBF15VgBCuL1HuEmcmuO
lYmlmIgJlhiCnHdBbHxaF7BQzkm2GjhLz48_uPn_UZNqhDU9hH165nrgWdtuvSmTse7iCxCs2A0Xe-
jafz1bOogMm99vHmzT_HUeb2rMgYLTkSr34w8HR4LRkJAcITEqzU7CyUzZ4wO8K9g7Ucoxv4ayREtLbwB
khIsSA==</Url>
    </CreateScanFormResponse>
  </soap:Body>
</soap:Envelope>
```

2.11 CreateTestIndicium Web Method

This web method has been removed from v29 onwards. CreateIndicium (page 16) with SampleOnly set to true is to be used for creating test labels.

2.12 CreateUnfundedIndicium Web Method

The `CreateUnfundedIndicium` method generates an unfunded postage indicium based on the shipping information provided in the request.

The unfunded indicium feature is not available to all Stamps.com accounts and is provided as an advanced feature for integrations targeted at specific end-users for whom the feature has been enabled. An integration for general use should not use unfunded indicia.

Unfunded postage indicium is not valid postage when first print and for which funds have not been deducted from the user's meter. Before a mailpiece with such indicium goes to USPS mail stream, `FundUnfundedIndicium` method must be called to deduct the postage from user's meter. Otherwise, it will violate USPS rules and cause the account into violation status.

The SWS API will return a URL that references either an image of the domestic shipping label or a multi-page PDF document for international labels with customs forms.

Note: Users must not be able to point back to this URL to reprint a shipping label after the ship date has passed.

Special Considerations:

- `GetRates` may return multiple `<Rate>` objects along with any associated `<AddOn>` secondary objects. Select the desired `<Rate>` object from the `GetRates` response and specify only that one `<Rate>` rate object, with any desired `<AddOn>`s, in the `CreateUnfundedIndicium` call.

CreateUnfundedIndicium	
Request	<code><CreateUnfundedIndicium></code> object (page 69)
Response	<code><CreateUnfundedIndiciumResponse></code> object (page 71)
Expected Errors	<p>If an error occurs, the response will be a SOAP fault (page 121). The following error codes are common for this web method:</p> <p>0x002b0202 – Expired Authenticator: The <code>Authenticator</code> string used to authenticate for the web method call has expired. Authenticators are only valid for 24 hours. The integration should prompt the user to re-enter their password and start a new session with the <code>AuthenticateUser</code> web method.</p> <p>0x002b0203 – Invalid Conversation Token: The <code>Authenticator</code> string used to authenticate for the web method call contains an invalid conversation token. This can occur if the <code>Authenticator</code> sent in request has been invalidated by a login through another instance of the integration. Note: users are restricted to using only one instance of a particular integration at a time. The integration should correct this error by calling the <code>AuthenticateUser</code> web method again and retrying the operation.</p> <p>0x002b0204 – Conversation Out-of-Sync: This error is returned if a prior <code>Authenticator</code> string is re-used. This is an indication that a response message from a previous web method call was lost on the network. The user should be warned and</p>

2.12.1 Example

The example below demonstrates a CreateUnfundedIndicium call for a Priority Mail shipment with Stamps.com insurance.

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/CreateUnfundedIndicium"
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soap:Body>
    <tns:CreateUnfundedIndicium>
      <tns:Authenticator>***authenticator***</tns:Authenticator>
      <tns:IntegratorTxID>1234567890ABCDEF</tns:IntegratorTxID>
      <tns:TrackingNumber/>
      <tns:Rate>
        <tns:FromZIPCode>90405</tns:FromZIPCode>
        <tns:ToZIPCode>90066</tns:ToZIPCode>
        <tns:Amount>10</tns:Amount>
        <tns:ServiceType>US-PM</tns:ServiceType>
        <tns:DeliverDays>1-1</tns:DeliverDays>
        <tns:WeightLb>12</tns:WeightLb>
        <tns:WeightOz>0</tns:WeightOz>
        <tns:PackageType>Package</tns:PackageType>
        <tns:ShipDate>2009-09-02</tns:ShipDate>
        <tns:InsuredValue>100.00</tns:InsuredValue>
        <tns:RectangularShaped>false</tns:RectangularShaped>
        <tns:AddOns>
          <tns:AddOn>
            <tns:Amount>0</tns:Amount>
            <tns:AddOnType>US-A-DC</tns:AddOnType>
          </tns:AddOn>
          <tns:AddOn>
            <tns:Amount>1.3</tns:Amount>
            <tns:AddOnType>SC-A-INS</tns:AddOnType>
          </tns:AddOn>
        </tns:AddOns>
      </tns:Rate>
      <tns:From>
        <tns:FullName>Some Body</tns:FullName>
        <tns:Address1>3420 Ocean Park Bl</tns:Address1>
        <tns:Address2>Ste 1000</tns:Address2>
        <tns:City>Santa Monica</tns:City>
        <tns:State>CA</tns:State>
        <tns:ZIPCode>90405</tns:ZIPCode>
      </tns:From>
      <tns:To>
        <tns:FullName>GEOFF ANTON</tns:FullName>
        <tns:NamePrefix/>
      </tns:To>
    </tns:CreateUnfundedIndicium>
  </soap:Body>
</soap:Envelope>
```

```

<tns:FirstName/>
<tns:MiddleName/>
<tns:LastName/>
<tns:NameSuffix/>
<tns:Title/>
<tns:Department/>
<tns:Company>STAMPS.COM</tns:Company>
<tns:Address1>12959 CORAL TREE PL</tns:Address1>
<tns:Address2/>
<tns:City>LOS ANGELES</tns:City>
<tns:State>CA</tns:State>
<tns:ZIPCode>90066</tns:ZIPCode>
<tns:ZIPCodeAddOn>7020</tns:ZIPCodeAddOn>
<tns:DPB>59</tns:DPB>
<tns:CheckDigit>6</tns:CheckDigit>
<tns:Province/>
<tns:PostalCode/>
<tns:Country/>
<tns:Urbanization/>
<tns:PhoneNumber/>
<tns:Extension/>

<tns:CleanseHash>7SWYAzuNh82cWhIQyRFXRNa7lHFkZWFkYmVlZg==20070513</tns:CleanseHash>
</tns:To>
</tns:CreateUnfundedIndicium>
</soap:Body>
</soap:Envelope>

```

Response:

```

HTTP 200
Server: Microsoft-IIS/5.1
Date: Wed, 02 Sep 2009 18:16:42 GMT
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <CreateUnfundedIndiciumResponse
xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
      <Authenticator>***authenticator***</Authenticator>
      <IntegratorTxID>1234567890ABCDEF</IntegratorTxID>
      <TrackingNumber>9101010521290895036620</TrackingNumber>
      <Rate>
        <FromZIPCode>90405</FromZIPCode>
        <ToZIPCode>90066</ToZIPCode>
        <Amount>10.36</Amount>
        <ServiceType>US-PM</ServiceType>
        <DeliverDays>1-3</DeliverDays>
        <WeightLb>12</WeightLb>
        <PackageType>Package</PackageType>
        <ShipDate>2009-09-02</ShipDate>
        <InsuredValue>100.00</InsuredValue>
        <RectangularShaped>>false</RectangularShaped>
      </Rate>
    </CreateUnfundedIndiciumResponse>
  </soap:Body>
</soap:Envelope>

```



```

<DimWeighting>N</DimWeighting>
<AddOns>
  <AddOn>
    <AddOnType>US-A-DC</AddOnType>
  </AddOn>
  <AddOn>
    <Amount>1.85</Amount>
    <AddOnType>SC-A-INS</AddOnType>
  </AddOn>
</AddOns>
<EffectiveWeightInOunces>192</EffectiveWeightInOunces>
<IsIntraBMC>true</IsIntraBMC>
<Zone>1</Zone>
<RateCategory>806096944</RateCategory>
</Rate>
<StampsTxID>e6cefc5d-1697-40dc-8194-61a5031ebc07</StampsTxID>
<URL> https://swsim.testing.stamps.com/label/label.ashx/label-
200.png?AQAAALCZuNHZ-
ssIvyaxoqeNS084Kzs51y_MMxH7qSp4nONMtWlQlPlz7t10sTsOjVMSlzlLL7WEXOCZRMZfnrITj_tWa06
5sNbZlZ2BmFGxgYGHuYGBmaGzJ5pdf1JuYwwTUyxmcn5uq4JSfUvn__38hYxMjAwX_5NTEPIWAXKJsBac
cjuCSVAVDAwOD_zzBiXkliQq--
XmZyYlMzo6slgYmBqb__zMDTeF2d_V3c1Nw9Avx92Ng4AoOcfQNCNZz9vcVNjSyNLVUUCYPYpCvRRCAlydV
UI8GH4z8Dt4x8MVO3u6uMaDDHKwMyMxdzAyIDJlJLRjDc0L7MkNUUhuCSxJLWY4f8BhgMMEOsYeVgYkAA
TA0M8OyOIBfKgdR0zYzuIBlQkNsGI8VI8I8MZnUhTBhawSpCMgQCPQZlgZM_3CRtL271qfnJaLXsWzCHk
Zl2yZNoylbzEP4t5lR9pftYx053KzsCjmgjUw1pcXpyZK2ZpaACCpkZAHx1YWJoaGJuZGRkwOLwsKv95m
oNBwkN-08_THYwC6qju28mAymf7z0ArwMjIaHgaRAMAyspyBg==</URL>
  <PostageBalance>
    <AvailablePostage>####.##</AvailablePostage>
    <ControlTotal>####.##</ControlTotal>
  </PostageBalance>
</CreateUnfundedIndiciumResponse>
</soap:Body>
</soap:Envelope>

```

2.13 EnumCostCodes Web Method

The `EnumCostCodes` web method is used to get the cost codes associated with the user's account. Choosing one of the cost codes by ID is allowed when creating an indicium.

GetAccountInfo	
Request	<EnumCostCodes> object (page 73)
Response	<EnumCostCodesResponse> object (page 74)
Expected Errors	<p>If an error occurs, the response will be a SOAP fault (page 121). The following error codes are common for this web method:</p> <p>0x002b0202 – Expired Authenticator: The <code>Authenticator</code> string used to authenticate for the web method call has expired. Authenticators are only valid for 24 hours. The integration should prompt the user to re-enter their password and start a new session with the <code>AuthenticateUser</code> web method.</p> <p>0x002b0203 – Invalid Conversation Token: The <code>Authenticator</code> string used to authenticate for the web method call contains an invalid conversation token. This can occur if the <code>Authenticator</code> sent in request has been invalidated by a login through</p>

	<p>another instance of the integration. Note: users are restricted to using only one instance of a particular integration at a time. The integration should correct this error by calling the <code>AuthenticateUser</code> web method again and retrying the operation.</p> <p>0x002b0204 – Conversation Out-of-Sync: This error is returned if a prior <code>Authenticator</code> string is re-used. This is an indication that a response message from a previous web method call was lost on the network. The user should be warned and the session can be resynchronized with a call to the <code>AuthenticateUser</code> web method.</p>
--	--

2.13.1 Example

Enumerate the cost codes for the active session, identified by the `Authenticator`.

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/GetAccountInfo"
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soap:Body>
    <tns:EnumCostCodes>
      <tns:Authenticator>***authenticator***</tns:Authenticator>
    </tns:EnumCostCodes>
  </soap:Body>
</soap:Envelope>
```

Response:

```
HTTP 200
Server: Microsoft-IIS/5.1
Date: Mon, 31 Aug 2009 20:27:41 GMT
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <EnumCostCodesResponse
xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
      <Authenticator>***authenticator***</Authenticator>
      <CostCodes>
        <CostCodes>
          <id>1</id>
          <name>Cost Code 1</name>
        </CostCodes>
        <CostCodes>
          <id>2</id>
          <name>Cost Code 2</name>
```

```

    </CostCodes>
  </CostCodes>
</EnumCostCodesResponse>
</soap:Body>
</soap:Envelope>

```

2.14 EnumNetStampsLayouts Web Method

This feature is not available for all integrations.

2.15 FinishPasswordReset Web Method

The `FinishPasswordReset` web method is used to complete the password reset process that was started with `StartPasswordReset`. When `AuthenticateUser` or any other web method returns error 0x002b0605, it indicates that the supplied `Credentials` object contained a valid temporary password for the user. The integration must at that point prompt the user for a new password and complete the password reset process with the `FinishPasswordReset` web method.

The integration should prompt the user to enter the password twice using an input field that masks the password. The integration should verify that the same password is entered both times.

Unlike other web methods, this web method does not return an `Authenticator` string. After the password reset is finished, a new session should be started with the new password via the `AuthenticateUser` web method.

FinishPasswordReset	
Request	<FinishPasswordReset> object (page 73)
Response	<FinishPasswordResetResponse> object (page 73)
Expected Errors	<p>If an error occurs, the response will be a SOAP fault (page 121). The following error codes are common for this web method:</p> <p>0x002b0601 – Authentication Failed: This error is returned if an incorrect username or temporary password is given.</p> <p>0x002B0401 – Password Too Long: New password input was longer than maximum password length. Passwords must be between 6 and 20 characters and include both a letter and a number.</p> <p>0x002B0402 – Password Too Short: New password input was shorter than minimum password length. Passwords must be between 6 and 20 characters and include both a letter and a number.</p> <p>0x002B0403 – Password Doesn't Contain a Letter: New password input did not contain a letter. Passwords must be between 6 and 20 characters and include both a letter and a number.</p> <p>0x002B0404 – Password Doesn't Contain a Digit: New password input did not contain a digit. Passwords must be between 6 and 20 characters and include both a letter and a number.</p> <p>0x002B0406 – Password Repeated: New password must not be a repeat of any of the previous 5 used passwords.</p>

	0x002B0501 – Not in Password Reset: Web method was called for a user that is not in the password reset state.
--	---

2.15.1 Example

Finish a password reset for the user "test" with password "password1".

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/FinishPasswordReset"
Content-Length: #####
```

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soap:Body>
    <tns:FinishPasswordReset>
      <tns:Username>test</tns:Username>
      <tns:TempPassword>***temppassword***</tns:TempPassword>
      <tns:NewPassword>password1</tns:NewPassword>
    </tns:FinishPasswordReset>
  </soap:Body>
</soap:Envelope>
```

Response:

```
HTTP 200
Server: Microsoft-IIS/5.1
Date: Mon, 31 Aug 2009 20:17:42 GMT
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <FinishPasswordResetResponse
xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29" />
  </soap:Body>
</soap:Envelope>
```

2.16 FundUnfundedIndicium

The FundUnfundedIndicium method deducts the postage amount of an unfunded indicium from the user's meter, thus converting the indicium to funded state. A mailpiece with a funded indicium can be mailed.

The unfunded indicium feature is not available to all Stamps.com accounts and is provided as an advanced feature for integrations targeted at specific end-users for whom the feature has been enabled. Please contact your account representative to determine if your account supports unfunded indicia.

FundUnfundedIndicium	
Request	<FundUnfundedIndicium> object (page 73)
Response	<FundUnfundedIndiciumResponse> object (page 73)
Expected Errors	<p>If an error occurs, the response will be a SOAP fault (page 121). The following error codes are common for this web method:</p> <p>0x002b0202 – Expired Authenticator: The <code>Authenticator</code> string used to authenticate for the web method call has expired. Authenticators are only valid for 24 hours. The integration should prompt the user to re-enter their password and start a new session with the <code>AuthenticateUser</code> web method.</p> <p>0x002b0203 – Invalid Conversation Token: The <code>Authenticator</code> string used to authenticate for the web method call contains an invalid conversation token. This can occur if the <code>Authenticator</code> sent in request has been invalidated by a login through another instance of the integration. Note: users are restricted to using only one instance of a particular integration at a time. The integration should correct this error by calling the <code>AuthenticateUser</code> web method again and retrying the operation.</p> <p>0x002b0204 – Conversation Out-of-Sync: This error is returned if a prior <code>Authenticator</code> string is re-used. This is an indication that a response message from a previous web method call was lost on the network. The user should be warned and the session can be resynchronized with a call to the <code>AuthenticateUser</code> web method.</p> <p>0x80040445 – Invalid indicium status. The indicium is not in a state that can be funded. It could have been voided or in a violation state.</p>

2.16.1 Example

The example below demonstrates a `FundUnfundedIndicium` call to fund an indicium which previously returned “56188b4f-fbf5-4b59-b3c8-5a7684bea8d0” as with `StampsTxID`.

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/FundUnfundedIndicium"
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soap:Body>
    <tns:FundUnfundedIndicium>
      <tns:Authenticator>***authenticator***</tns:Authenticator>
      <tns:StampsTxID>56188b4f-fbf5-4b59-b3c8-5a7684bea8d0</tns:StampsTxID>
    </tns:FundUnfundedIndicium>
  </soap:Body>
</soap:Envelope>
```

Response:

```
HTTP 200
```

```

Server: Microsoft-IIS/5.1
Date: Wed, 02 Sep 2009 18:49:32 GMT
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <FundUnfundedIndiciumResponse
xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
      <Authenticator>***authenticator***</Authenticator>
    </FundUnfundedIndiciumResponse>
  </soap:Body>
</soap:Envelope>

```

2.17 GetAccountInfo Web Method

The `GetAccountInfo` web method is used to get information about the user's account, including the postage balance and the operations the user is allowed to invoke.

The integration will likely call this immediately after authenticating the user to tailor the integration to the capabilities of the user and display the available postage balance.

GetAccountInfo	
Request	<GetAccountInfo> object (page 73)
Response	<GetAccountInfoResponse> object (page 74)
Expected Errors	<p>If an error occurs, the response will be a SOAP fault (page 121). The following error codes are common for this web method:</p> <p>0x002b0202 – Expired Authenticator: The <code>Authenticator</code> string used to authenticate for the web method call has expired. Authenticators are only valid for 24 hours. The integration should prompt the user to re-enter their password and start a new session with the <code>AuthenticateUser</code> web method.</p> <p>0x002b0203 – Invalid Conversation Token: The <code>Authenticator</code> string used to authenticate for the web method call contains an invalid conversation token. This can occur if the <code>Authenticator</code> sent in request has been invalidated by a login through another instance of the integration. Note: users are restricted to using only one instance of a particular integration at a time. The integration should correct this error by calling the <code>AuthenticateUser</code> web method again and retrying the operation.</p> <p>0x002b0204 – Conversation Out-of-Sync: This error is returned if a prior <code>Authenticator</code> string is re-used. This is an indication that a response message from a previous web method call was lost on the network. The user should be warned and the session can be resynchronized with a call to the <code>AuthenticateUser</code> web method.</p>

2.17.1 Example

Get the account info for the active session, identified by the Authenticator.

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/GetAccountInfo"
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soap:Body>
    <tns:GetAccountInfo>
      <tns:Authenticator>***authenticator***</tns:Authenticator>
    </tns:GetAccountInfo>
  </soap:Body>
</soap:Envelope>
```

Response:

```
HTTP 200
Server: Microsoft-IIS/5.1
Date: Mon, 31 Aug 2009 20:27:41 GMT
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <GetAccountInfoResponse
xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
      <Authenticator>***authenticator***</Authenticator>
      <AccountInfo>
        <CustomerID>####</CustomerID>
        <MeterNumber>####</MeterNumber>
        <UserID>####</UserID>
        <PostageBalance>
          <AvailablePostage>####.##</AvailablePostage>
          <ControlTotal>####.##</ControlTotal>
        </PostageBalance>
        <MaxPostageBalance>250</MaxPostageBalance>
        <LPOCity>Los Angeles</LPOCity>
        <LPOState>CA</LPOState>
        <LPOZip>90066</LPOZip>
        <Capabilities>
          <CanPrintShipping>true</CanPrintShipping>
          <CanUseCostCodes>true</CanUseCostCodes>
          <CanUseHiddenPostage>true</CanUseHiddenPostage>
          <CanPurchaseSDCInsurance>true</CanPurchaseSDCInsurance>
        </Capabilities>
      </AccountInfo>
    </GetAccountInfoResponse>
  </soap:Body>
</soap:Envelope>
```

```

        <CanPrintMemoOnShippingLabel>true</CanPrintMemoOnShippingLabel>
        <CanPrintInternational>true</CanPrintInternational>
        <CanPurchasePostage>true</CanPurchasePostage>
        <CanEditCostCodes>true</CanEditCostCodes>
        <MustUseCostCodes>false</MustUseCostCodes>
        <CanViewOnlineReports>true</CanViewOnlineReports>
        <PerPrintLimit>922337203685477.5807</PerPrintLimit>
    </Capabilities>
</AccountInfo>
</GetAccountInfoResponse>
</soap:Body>
</soap:Envelope>

```

2.18 GetCodewordQuestions Web Method

The GetCodewordQuestions web method is used to get the codeword questions to ask the user in order to start the password reset process with the StartPasswordReset web method. If the user indicates to the integration that they have forgotten their password, the integration should call this web method to get two questions to ask the user. The answer to these questions is required in order to reset the password to a temporary password and have that temporary password sent to the user by e-mail.

GetCodewordQuestions	
Request	<GetCodewordQuestions> object (page 74)
Response	<GetCodewordQuestionsResponse> object (page 75)
Expected Errors	To prevent the use of this web method as an "Oracle" for learning the usernames in the Stamps.com system, this web method does not return an error when an invalid username is given. If the username is unknown to the system, codeword questions will still be returned.

2.18.1 Example

Get the codeword questions for user "test".

Request:

```

User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/GetCodewordQuestions"
Content-Length: ####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soap:Body>
    <tns:GetCodewordQuestions>
      <tns:Username>test</tns:Username>
    </tns:GetCodewordQuestions>
  </soap:Body>
</soap:Envelope>

```


Response:

```
HTTP 200
Server: Microsoft-IIS/5.1
Date: Mon, 31 Aug 2009 20:11:45 GMT
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <GetCodewordQuestionsResponse
xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
      <Codeword1Question>What is your mother's maiden name?</Codeword1Question>
      <Codeword2Question>What are the last four digits of your
SSN?</Codeword2Question>
    </GetCodewordQuestionsResponse>
  </soap:Body>
</soap:Envelope>
```

2.19 GetPurchaseStatus Web Method

The `GetPurchaseStatus` web method is used to get the status of a previous postage purchase request made with the `PurchasePostage` web method.

Due to the details of payment processing, postage purchase is inherently an asynchronous process. Typically, the `PurchasePostage` web method will return a status of `Pending` or `Processing`, indicating that the payment for the postage purchase has not yet been processed. The integration must then call `GetPurchaseStatus` in order to determine the status of the purchase. The integrator should use an exponential back-off wait algorithm as to not inundate the server with calls to `GetPurchaseStatus`. The integration should wait 8 seconds before making the first call, then 16 seconds before trying again, and then 32 seconds between all subsequent retries. Typically, the purchase will succeed before the second retry.

GetPurchaseStatus	
Request	<GetPurchaseStatus> object (page 75)
Response	<GetPurchaseStatusResponse> object (page 75)
Expected Errors	<p>If an error occurs, the response will be a SOAP fault (page 121). The following error codes are common for this web method:</p> <p>0x002b0202 – Expired Authenticator: The <code>Authenticator</code> string used to authenticate for the web method call has expired. Authenticators are only valid for 24 hours. The integration should prompt the user to re-enter their password and start a new session with the <code>AuthenticateUser</code> web method.</p> <p>0x002b0203 – Invalid Conversation Token: The <code>Authenticator</code> string used to authenticate for the web method call contains an invalid conversation token. This can occur if the <code>Authenticator</code> sent in request has been invalidated by a login through another instance of the integration. Note: users are restricted to using only one instance of a particular integration at a time. The integration should correct this error by calling</p>

	<p>the AuthenticateUser web method again and retrying the operation.</p> <p>0x002b0204 – Conversation Out-of-Sync: This error is returned if a prior Authenticator string is re-used. This is an indication that a response message from a previous web method call was lost on the network. The user should be warned and the session can be resynchronized with a call to the AuthenticateUser web method.</p>
--	--

2.19.1 Example

Get purchase status for previously requested postage purchase identified by transaction ID "1234".

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/GetPurchaseStatus"
Content-Length: ####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soap:Body>
    <tns:GetPurchaseStatus>
      <tns:Authenticator>***authenticator***</tns:Authenticator>
      <tns:TransactionID>1234</tns:TransactionID>
    </tns:GetPurchaseStatus>
  </soap:Body>
</soap:Envelope>
```

Response:

```
HTTP 200
Server: Microsoft-IIS/5.1
Date: Mon, 31 Aug 2009 21:55:36 GMT
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: ####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <GetPurchaseStatusResponse
xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
      <Authenticator>***authenticator***</Authenticator>
      <PurchaseStatus>Success</PurchaseStatus>
      <PostageBalance>
        <AvailablePostage>####.##</AvailablePostage>
        <ControlTotal>####.##</ControlTotal>
      </PostageBalance>
      <RejectionReason/>
    </GetPurchaseStatusResponse>
  </soap:Body>
</soap:Envelope>
```

2.20 GetRates Web Method

The `GetRates` method produces a list of rates for all available USPS services based on the ZIP Code or the foreign country being shipped to for a given package weight and size.

See the `ServiceType` list (page 117) for a list of all possible rates / services returned.

Add-on Services: All available add-on services are included as part of each rate as a sub-item to the rate (e.g., Signature Confirmation is an optional add-on returned with a USPS Priority Mail rate).

`ServiceType` and `PackageType` could be `Unknown`. If any of them is `Unknown` the method returns all possible rates with the known parameters. If there is no rate available, the method returns normally but without rates. Note that in this case, there is no exception thrown.

If both `ServiceType` and `PackageType` are known but the method cannot find a valid rate, it throws an exception.

GetRates	
Request	<GetRates> object (page 76)
Response	<GetRates> object (page 76)
Expected Errors	<p>If an error occurs, the response will be a SOAP fault (page 121). The following error codes are common for this web method:</p> <p>0x002b0202 – Expired Authenticator: The <code>Authenticator</code> string used to authenticate for the web method call has expired. Authenticators are only valid for 24 hours. The integration should prompt the user to re-enter their password and start a new session with the <code>AuthenticateUser</code> web method.</p> <p>0x002b0203 – Invalid Conversation Token: The <code>Authenticator</code> string used to authenticate for the web method call contains an invalid conversation token. This can occur if the <code>Authenticator</code> sent in request has been invalidated by a login through another instance of the integration. Note: users are restricted to using only one instance of a particular integration at a time. The integration should correct this error by calling the <code>AuthenticateUser</code> web method again and retrying the operation.</p> <p>0x002b0204 – Conversation Out-of-Sync: This error is returned if a prior <code>Authenticator</code> string is re-used. This is an indication that a response message from a previous web method call was lost on the network. The user should be warned and the session can be resynchronized with a call to the <code>AuthenticateUser</code> web method.</p>

2.20.1 Example

From ZIP Code: 90405, to ZIP Code: 90066, weight = 12 lbs. The item being shipped is being insured for \$100.

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction: "http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/GetRates"
Content-Length: ####

<?xml version="1.0" encoding="utf-8"?>
```

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soap:Body>
    <tns:GetRates>
      <tns:Authenticator>***authenticator***</tns:Authenticator>
      <tns:Rate>
        <tns:FromZIPCode>90405</tns:FromZIPCode>
        <tns:ToZIPCode>90066</tns:ToZIPCode>
        <tns:WeightLb>12</tns:WeightLb>
        <tns:PackageType>Package</tns:PackageType>
        <tns:ShipDate>2009-08-31</tns:ShipDate>
        <tns:InsuredValue>100.00</tns:InsuredValue>
      </tns:Rate>
    </tns:GetRates>
  </soap:Body>
</soap:Envelope>
```

Response:

```
HTTP 200
Server: Microsoft-IIS/5.1
Date: Mon, 31 Aug 2009 19:50:19 GMT
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <GetRatesResponse
xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
      <Authenticator>***authenticator***</Authenticator>
      <Rates>
        <Rate>
          <FromZIPCode>90405</FromZIPCode>
          <ToZIPCode>90066</ToZIPCode>
          <Amount>10.36</Amount>
          <ServiceType>US-PM</ServiceType>
          <DeliverDays>1-3</DeliverDays>
          <WeightLb>12</WeightLb>
          <PackageType>Package</PackageType>
          <ShipDate>2009-08-31</ShipDate>
          <InsuredValue>100.00</InsuredValue>
          <DimWeighting>N</DimWeighting>
          <AddOns>
            <AddOn>
              <AddOnType>US-A-DC</AddOnType>
            </AddOn>
            <AddOn>
              <Amount>1.95</Amount>
              <AddOnType>US-A-SC</AddOnType>
            </AddOn>
            <AddOn>
              <Amount>1.85</Amount>
              <AddOnType>SC-A-INS</AddOnType>
            </AddOn>
          </AddOns>
        </Rate>
      </Rates>
    </GetRatesResponse>
  </soap:Body>
</soap:Envelope>
```

```

    </AddOn>
    <AddOn>
      <AddOnType>SC-A-HP</AddOnType>
    </AddOn>
  </AddOns>
  <EffectiveWeightInOunces>192</EffectiveWeightInOunces>
  <IsIntraBMC>true</IsIntraBMC>
  <Zone>1</Zone>
  <RateCategory>806096944</RateCategory>
</Rate>
<Rate>
  <FromZIPCode>90405</FromZIPCode>
  <ToZIPCode>90066</ToZIPCode>
  <Amount>31.3</Amount>
  <ServiceType>US-XM</ServiceType>
  <DeliverDays>1-2</DeliverDays>
  <WeightLb>12</WeightLb>
  <PackageType>Package</PackageType>
  <ShipDate>2009-08-31</ShipDate>
  <InsuredValue>100.00</InsuredValue>
  <DimWeighting>N</DimWeighting>
  <AddOns>
    <AddOn>
      <Amount>1.85</Amount>
      <AddOnType>SC-A-INS</AddOnType>
    </AddOn>
    <AddOn>
      <AddOnType>US-A-WDS</AddOnType>
    </AddOn>
    <AddOn>
      <AddOnType>SC-A-HP</AddOnType>
    </AddOn>
  </AddOns>
  <EffectiveWeightInOunces>192</EffectiveWeightInOunces>
  <IsIntraBMC>true</IsIntraBMC>
  <Zone>1</Zone>
  <RateCategory>537661488</RateCategory>
</Rate>
<Rate>
  <FromZIPCode>90405</FromZIPCode>
  <ToZIPCode>90066</ToZIPCode>
  <Amount>9.8</Amount>
  <ServiceType>US-PP</ServiceType>
  <DeliverDays>2-9</DeliverDays>
  <WeightLb>12</WeightLb>
  <PackageType>Package</PackageType>
  <ShipDate>2009-08-31</ShipDate>
  <InsuredValue>100.00</InsuredValue>
  <DimWeighting>N</DimWeighting>
  <AddOns>
    <AddOn>
      <Amount>0.19</Amount>
      <AddOnType>US-A-DC</AddOnType>
    </AddOn>
    <AddOn>
      <Amount>1.95</Amount>
      <AddOnType>US-A-SC</AddOnType>
    </AddOn>
    <AddOn>
      <Amount>1.85</Amount>

```

```

        <AddOnType>SC-A-INS</AddOnType>
      </AddOn>
      <AddOn>
        <AddOnType>SC-A-HP</AddOnType>
      </AddOn>
    </AddOns>
    <EffectiveWeightInOunces>192</EffectiveWeightInOunces>
    <IsIntraBMC>true</IsIntraBMC>
    <Zone>1</Zone>
    <RateCategory>1611404080</RateCategory>
  </Rate>
  <Rate>
    <FromZIPCode>90405</FromZIPCode>
    <ToZIPCode>90066</ToZIPCode>
    <Amount>6.67</Amount>
    <ServiceType>US-MM</ServiceType>
    <DeliverDays>2-9</DeliverDays>
    <WeightLb>12</WeightLb>
    <PackageType>Package</PackageType>
    <ShipDate>2009-08-31</ShipDate>
    <InsuredValue>100.00</InsuredValue>
    <DimWeighting>N</DimWeighting>
    <AddOns>
      <AddOn>
        <Amount>0.19</Amount>
        <AddOnType>US-A-DC</AddOnType>
      </AddOn>
      <AddOn>
        <Amount>1.95</Amount>
        <AddOnType>US-A-SC</AddOnType>
      </AddOn>
      <AddOn>
        <Amount>1.85</Amount>
        <AddOnType>SC-A-INS</AddOnType>
      </AddOn>
      <AddOn>
        <AddOnType>SC-A-HP</AddOnType>
      </AddOn>
    </AddOns>
    <EffectiveWeightInOunces>192</EffectiveWeightInOunces>
    <IsIntraBMC>true</IsIntraBMC>
    <Zone>1</Zone>
    <RateCategory>1611401520</RateCategory>
  </Rate>
</Rates>
</GetRatesResponse>
</soap:Body>
</soap:Envelope>

```

2.21 GetSupportedCountries Web Method

The `GetSupportedCountries` method produces a list of countries that international mails can be sent to.

GetRates	
Request	<GetSupportedCountries> object (page 77)

Response	<GetSupportedCountries> object (page 77)
Expected Errors	<p>If an error occurs, the response will be a SOAP fault (page 121). The following error codes are common for this web method:</p> <p>0x002b0202 – Expired Authenticator: The <code>Authenticator</code> string used to authenticate for the web method call has expired. Authenticators are only valid for 24 hours. The integration should prompt the user to re-enter their password and start a new session with the <code>AuthenticateUser</code> web method.</p> <p>0x002b0203 – Invalid Conversation Token: The <code>Authenticator</code> string used to authenticate for the web method call contains an invalid conversation token. This can occur if the <code>Authenticator</code> sent in request has been invalidated by a login through another instance of the integration. Note: users are restricted to using only one instance of a particular integration at a time. The integration should correct this error by calling the <code>AuthenticateUser</code> web method again and retrying the operation.</p> <p>0x002b0204 – Conversation Out-of-Sync: This error is returned if a prior <code>Authenticator</code> string is re-used. This is an indication that a response message from a previous web method call was lost on the network. The user should be warned and the session can be resynchronized with a call to the <code>AuthenticateUser</code> web method.</p>

2.21.1 Example

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction: "
http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/GetSupportedCountries"
Content-Length: #####

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:sws="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soapenv:Header/>
  <soapenv:Body>
    <sws:GetSupportedCountries>
      <sws:Authenticator>***authenticator***</sws:Authenticator>
    </sws:GetSupportedCountries>
  </soapenv:Body>
</soapenv:Envelope>
```

Response:

```
HTTP 200
Server: Microsoft-IIS/5.1
Date: Fri, 29 Mar 2013 19:50:19 GMT
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: #####

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <GetSupportedCountriesResponse
xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
      <Authenticator>***authenticator***</Authenticator>
```

```

    <CountryInfo>
      <CountryInfo>
        <Name>No Country</Name>
        <IsoCode>0</IsoCode>
      </CountryInfo>
      <CountryInfo>
        <Name>Andorra</Name>
        <IsoCode>AD</IsoCode>
      </CountryInfo>
      <CountryInfo>
        <Name>United Arab Emirates</Name>
        <IsoCode>AE</IsoCode>
      </CountryInfo>
      ...
      <CountryInfo>
        <Name>Timor Leste</Name>
        <IsoCode>TL</IsoCode>
      </CountryInfo>
    </GetSupportedCountriesResponse>
  </soap:Body>
</soap:Envelope>

```

2.22 GetURL Web Method

There are several account management operations that are available to Stamps.com customers on the Stamps.com website. Rather than duplicate all that functionality in the form of SWS web services and putting an additional burden on integrators to create a user interface for it, the SWS API allows the integrator to obtain the URL of Stamps.com hosted web pages to perform these operations. The `GetURL` web method does this.

The URLs returned from this web method are specific to the user and session, allowing the Stamps.com website to display information tailored for the user without requiring the user to re-authenticate. The URL is only valid for one request, so the URL should be immediately navigated to in a browser and not stored by the integration.

URLs to the following Stamps.com web pages are available through this web method: Home, Account Settings, Edit Cost Codes, Online Reports, and Help.

The Stamps.com website will also know which integration was used to obtain the URL, obtained from the `IntegrationID` element in the `Credentials` object. Through special arrangement with Stamps.com, the web pages hosted by Stamps.com may be co-branded for the integrator. When this is done, an additional element of the request, `ApplicationContext`, can be set to control the behavior of the customized web page.

GetURL	
Request	<GetURL> object (page 77)
Response	<GetURLResponse> object (page 78)
Expected Errors	<p>If an error occurs, the response will be a SOAP fault (page 121). The following error codes are common for this web method:</p> <p>0x002b0202 – Expired Authenticator: The <code>Authenticator</code> string used to authenticate for the web method call has expired. Authenticators are only valid for 24 hours. The integration should prompt the user to re-enter their password and start a new session</p>

	<p>with the <code>AuthenticateUser</code> web method.</p> <p>0x002b0203 – Invalid Conversation Token: The <code>Authenticator</code> string used to authenticate for the web method call contains an invalid conversation token. This can occur if the <code>Authenticator</code> sent in request has been invalidated by a login through another instance of the integration. Note: users are restricted to using only one instance of a particular integration at a time. The integration should correct this error by calling the <code>AuthenticateUser</code> web method again and retrying the operation.</p> <p>0x002b0204 – Conversation Out-of-Sync: This error is returned if a prior <code>Authenticator</code> string is re-used. This is an indication that a response message from a previous web method call was lost on the network. The user should be warned and the session can be resynchronized with a call to the <code>AuthenticateUser</code> web method.</p>
--	---

2.22.1 Example

Get the URL for the Account Settings page for the current user.

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction: "http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/GetURL"
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soap:Body>
    <tns:GetURL>
      <tns:Authenticator>***authenticator***</tns:Authenticator>
      <tns:URLType>AccountSettingsPage</tns:URLType>
      <tns:ApplicationContext/>
    </tns:GetURL>
  </soap:Body>
</soap:Envelope>
```

Response:

```
HTTP 200
Server: Microsoft-IIS/5.1
Date: Mon, 31 Aug 2009 23:00:35 GMT
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <GetURLResponse
xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
      <Authenticator>***authenticator***</Authenticator>
      <URL>https://store.stamps.com/myaccount?auth=***authenticator***</URL>
    </GetURLResponse>
```

```
</soap:Body>  
</soap:Envelope>
```

2.23 PurchasePostage Web Method

The `PurchasePostage` web method is used to purchase additional postage. The purchase will occur using the user's current payment method for purchasing postage. This can be changed using the account settings web page hosted by Stamps.com. See the `GetURL` web method for more information.

Due to the details of payment processing, postage purchase is inherently an asynchronous process. Typically, the `PurchasePostage` web method will return a status of `Pending` or `Processing`, indicating that the payment for the postage purchase has not yet been processed. The integration must then call `GetPurchaseStatus` in order to determine the status of the purchase. The integrator should use an exponential back-off wait algorithm as to not inundate the server with calls to `GetPurchaseStatus`. The integration should wait 8 seconds before making the first call, then 16 seconds before trying again, and then 32 seconds between all subsequent retries. Typically, the purchase will succeed before the second retry.

`PurchasePostage` web method has a fault-tolerance mechanism that can be utilized by passing `IntegratorTxID`. The method can be called multiple times with the same `IntegratorTxID`. If the initial call to `PurchasePostage` fails due to network or other errors, the call may be repeated to `PurchasePostage` with the same `IntegratorTxID`. By checking the `IntegratorTxID`, the service knows whether this is a initial `PurchasePostage` call or a replay. If it is a replay, meaning the `IntegratorTxID` has been used before, the service simply returns the response of the initial `PurchasePostage` call without further processing. If `IntegratorTxID` is not passed in, this fault-tolerance mechanism won't be activated.

PurchasePostage	
Request	<PurchasePostage> object (page 78)
Response	<PurchasePostageResponse> object (page 79)
Expected Errors	<p>If an error occurs, the response will be a SOAP fault (page 121). The following error codes are common for this web method:</p> <p>0x002b0202 – Expired Authenticator: The <code>Authenticator</code> string used to authenticate for the web method call has expired. Authenticators are only valid for 24 hours. The integration should prompt the user to re-enter their password and start a new session with the <code>AuthenticateUser</code> web method.</p> <p>0x002b0203 – Invalid Conversation Token: The <code>Authenticator</code> string used to authenticate for the web method call contains an invalid conversation token. This can occur if the <code>Authenticator</code> sent in request has been invalidated by a login through another instance of the integration. Note: users are restricted to using only one instance of a particular integration at a time. The integration should correct this error by calling the <code>AuthenticateUser</code> web method again and retrying the operation.</p> <p>0x002b0204 – Conversation Out-of-Sync: This error is returned if a prior <code>Authenticator</code> string is re-used. This is an indication that a response message from a previous web method call was lost on the network. The user should be warned and the session can be resynchronized with a call to the <code>AuthenticateUser</code> web method.</p> <p>0x00450116 – Purchase stale control total: The control total provided does not match the control total for the meter. Another user on the meter, or the same user with another application, has purchased additional postage not reflected in the postage balance known by this integration. The integration should re-obtain the postage balance and</p>

	control total with the GetAccountInfo web method, re-display the postage balance to the user, and allow the user to try again.
--	--

2.23.1 Example

Purchase an additional \$100 of postage.

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/PurchasePostage"
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soap:Body>
    <tns:PurchasePostage>
      <tns:Authenticator>***authenticator***</tns:Authenticator>
      <tns:PurchaseAmount>100</tns:PurchaseAmount>
      <tns:ControlTotal>#####.##</tns:ControlTotal>
    </tns:PurchasePostage>
  </soap:Body>
</soap:Envelope>
```

Response:

```
HTTP 200
Server: Microsoft-IIS/5.1
Date: Mon, 31 Aug 2009 21:48:44 GMT
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <PurchasePostageResponse
xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
      <Authenticator>***authenticator***</Authenticator>
      <PurchaseStatus>Pending</PurchaseStatus>
      <TransactionID>1234</TransactionID>
      <PostageBalance>
        <AvailablePostage>#####.##</AvailablePostage>
        <ControlTotal>#####.##</ControlTotal>
      </PostageBalance>
      <RejectionReason>order being processed</RejectionReason>
    </PurchasePostageResponse>
  </soap:Body>
</soap:Envelope>
```

2.24 RegisterAccount Web Method

The `RegisterAccount` web method is used to register a new account for the SWS/IM system. Users of SWS/IM integrations must have accounts with Stamps.com. These accounts allow the user to make use of the SWS/IM integration as well as the standard Stamps.com service.

This feature is not available for all integrations. Most integrations should simply open the Stamps.com registration web page in a browser window to perform new account registration. For integrations that require additional control over the registration experience, this feature is available. Please contact Stamps.com directly for more information about how to enable this feature for your integration.

RegisterAccount	
Request	<RegisterAccount> object (page 79)
Response	<RegisterAccountResponse> object (page 81)
Expected Errors	If an error occurs, the response will be a SOAP fault. The following error codes are common for this web method: 002B0802 – Creation of payment method failed. This error is returned if the payment method supplied could not be verified.

2.24.1 Example

Register account "test" with password "password1".

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/RegisterAccount"
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soap:Body>
    <tns:RegisterAccount>
      <tns:IntegrationID>***integrationid***</tns:IntegrationID>
      <tns:UserName>test</tns:UserName>
      <tns>Password>password1</tns>Password>
      <tns:Codeword1Type>Last4SocialSecurityNumber</tns:Codeword1Type>
      <tns:Codeword1>4444</tns:Codeword1>
      <tns:Codeword2Type>Last4DriversLicense</tns:Codeword2Type>
      <tns:Codeword2>aaaa</tns:Codeword2>
      <tns:PhysicalAddress>
        <tns:FirstName>Geoff</tns:FirstName>
        <tns:LastName>Anton</tns:LastName>
        <tns:Address1>12959 Coral Tree Place</tns:Address1>
        <tns:City>Los Angeles</tns:City>
        <tns:State>CA</tns:State>
        <tns:PhoneNumber>1111111111</tns:PhoneNumber>
      </tns:PhysicalAddress>
    </tns:RegisterAccount>
  </soap:Body>
</soap:Envelope>
```

```

<tns:MachineInfo>
  <tns:IPAddress>111.111.111.111</tns:IPAddress>
</tns:MachineInfo>
<tns:Email>test@example.com</tns:Email>
<tns:AccountType>Individual</tns:AccountType>
<tns:CreditCard>
  <tns:CreditCardType>Visa</tns:CreditCardType>
  <tns:AccountNumber>4111111111111111</tns:AccountNumber>
  <tns:ExpirationDate>2009-12-27T20:26:05Z</tns:ExpirationDate>
</tns:CreditCard>
</tns:RegisterAccount>
</soap:Body>
</soap:Envelope>

```

Response:

```

HTTP/200
Date: Wed, 02 Sep 2009 23:06:40 GMT
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <RegisterAccountResponse
      xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
      <RegistrationStatus>Success</RegistrationStatus>
      <SuggestedUserName />
    </RegisterAccountResponse>
  </soap:Body>
</soap:Envelope>

```

2.25 ResubmitPurchase Web Method

This feature is not available for integrations.

2.26 StartPasswordReset Web Method

The `StartPasswordReset` web method is used to start a password reset process when the user indicates that they have forgotten their password. The integration must call the `GetCodewordQuestions` web method and ask the user the returned questions. With those answers, the integration can call `StartPasswordReset`, and if the codeword answers are correct, a temporary password will be sent to the user by e-mail.

StartPasswordReset	
Request	<StartPasswordReset> object (page 81)
Response	<StartPasswordResetResponse> object (page 82)
Expected Errors	If an error occurs, the response will be a SOAP fault (page 121). The following error

	codes are common for this web method:
--	---------------------------------------

	0x002b0601 – Authentication Failed: This error is returned if an incorrect username or incorrect codewords are given.
--	---

2.26.1 Example

Start a password reset for the user "test" with codewords of "Smith" and "1111"

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/StartPasswordReset"
Content-Length: #####
```

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soap:Body>
    <tns:StartPasswordReset>
      <tns:Username>test</tns:Username>
      <tns:Codeword1>Smith</tns:Codeword1>
      <tns:Codeword2>1111</tns:Codeword2>
    </tns:StartPasswordReset>
  </soap:Body>
</soap:Envelope>
```

Response:

```
HTTP 200
Server: Microsoft-IIS/5.1
Date: Mon, 31 Aug 2009 20:17:42 GMT
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <StartPasswordResetResponse
xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29" />
  </soap:Body>
</soap:Envelope>
```

2.27 TrackShipment Web Method

The TrackShipment web method is used to get tracking events for a shipment where the postage was obtained through the CreateIndicium web method. Given the StampsTxID or TrackingID for the package, this web method will return a collection of TrackingEvent objects which the integrator can display to the user.

TrackShipment	
Request	<TrackShipment> object (page 82)
Response	<TrackShipmentResponse> object (page 82)
Expected Errors	<p>If an error occurs, the response will be a SOAP fault (page 121). The following error codes are common for this web method:</p> <p>0x002b0202 – Expired Authenticator: The <code>Authenticator</code> string used to authenticate for the web method call has expired. Authenticators are only valid for 24 hours. The integration should prompt the user to re-enter their password and start a new session with the <code>AuthenticateUser</code> web method.</p> <p>0x002b0203 – Invalid Conversation Token: The <code>Authenticator</code> string used to authenticate for the web method call contains an invalid conversation token. This can occur if the <code>Authenticator</code> sent in request has been invalidated by a login through another instance of the integration. Note: users are restricted to using only one instance of a particular integration at a time. The integration should correct this error by calling the <code>AuthenticateUser</code> web method again and retrying the operation.</p> <p>0x002b0204 – Conversation Out-of-Sync: This error is returned if a prior <code>Authenticator</code> string is re-used. This is an indication that a response message from a previous web method call was lost on the network. The user should be warned and the session can be resynchronized with a call to the <code>AuthenticateUser</code> web method.</p>

2.27.1 Example

Track the shipment identified by the `StampsTxID` of "c605aec1-322e-48d5-bf81-b0bb820f9c22".

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/TrackShipment"
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soap:Body>
    <tns:TrackShipment>
      <tns:Authenticator>***authenticator***</tns:Authenticator>
      <tns:StampsTxID>c605aec1-322e-48d5-bf81-b0bb820f9c22</tns:StampsTxID>
    </tns:TrackShipment>
  </soap:Body>
</soap:Envelope>
```

Response:

```
HTTP 200
Server: Microsoft-IIS/5.1
Date: Mon, 31 Aug 2009 20:17:42 GMT
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
```

Content-Type: text/xml; charset=utf-8

Content-Length: #####

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <TrackShipmentResponse
xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
      <Authenticator>***authenticator***</Authenticator>
      <TrackingEvents>
        <TrackingEvent>
          <Timestamp>2008-02-19T10:32:00</Timestamp>
          <Event>DELIVERED</Event>
          <TrackingEventType>Delivered</TrackingEventType>
          <City>FORT WAYNE</City>
          <State>IN</State>
          <Zip>46809</Zip>
          <Country>US</Country>
          <SignedBy />
          <AuthorizedAgent>true</AuthorizedAgent>
        </TrackingEvent>
        <TrackingEvent>
          <Timestamp>2008-02-15T16:58:00</Timestamp>
          <Event>PROCESSED</Event>
          <TrackingEventType>Enroute</TrackingEventType>
          <City>INDIANAPOLIS</City>
          <State>IN</State>
          <Zip>46206</Zip>
          <Country>US</Country>
          <SignedBy />
          <AuthorizedAgent>true</AuthorizedAgent>
        </TrackingEvent>
        <TrackingEvent>
          <Timestamp>2008-02-13T16:09:00</Timestamp>
          <Event>Electronic Notification</Event>
          <TrackingEventType>ElectronicNotification</TrackingEventType>
          <City />
          <State />
          <Zip>90066</Zip>
          <Country>US</Country>
          <SignedBy />
          <AuthorizedAgent>true</AuthorizedAgent>
        </TrackingEvent>
      </TrackingEvents>
    </TrackShipmentResponse>
  </soap:Body>
</soap:Envelope>
```

2.28 VoidUnfundedIndicium

The VoidUnfundedIndicium method voids an unfunded indicium created by CreateUnfundedIndicium method. A voided unfunded indicium cannot be funded in future. Therefore it cannot be used on mailpieces.

The unfunded indicium feature is not available to all Stamps.com accounts and is provided as an advanced feature for integrations targeted at specific end-users for whom the feature has been enabled. An integration for general use should not use unfunded indicia.

VoidUnfundedIndicium	
Request	<VoidUnfundedIndicium> object (page 83)
Response	<VoidUnfundedIndiciumResponse> object (page 83)
Expected Errors	<p>If an error occurs, the response will be a SOAP fault (page 121). The following error codes are common for this web method:</p> <p>0x002b0202 – Expired Authenticator: The <code>Authenticator</code> string used to authenticate for the web method call has expired. Authenticators are only valid for 24 hours. The integration should prompt the user to re-enter their password and start a new session with the <code>AuthenticateUser</code> web method.</p> <p>0x002b0203 – Invalid Conversation Token: The <code>Authenticator</code> string used to authenticate for the web method call contains an invalid conversation token. This can occur if the <code>Authenticator</code> sent in request has been invalidated by a login through another instance of the integration. Note: users are restricted to using only one instance of a particular integration at a time. The integration should correct this error by calling the <code>AuthenticateUser</code> web method again and retrying the operation.</p> <p>0x002b0204 – Conversation Out-of-Sync: This error is returned if a prior <code>Authenticator</code> string is re-used. This is an indication that a response message from a previous web method call was lost on the network. The user should be warned and the session can be resynchronized with a call to the <code>AuthenticateUser</code> web method.</p> <p>0x80040445 – Invalid indicium status. The indicium is not in a state that can be voided. It could have already been funded, in a violation state or voided before.</p>

2.28.1 Example

The example below demonstrates a `VoidUnfundedIndicium` call to void an unfunded indicium which previously returned "e6cefc5d-1697-40dc-8194-61a5031ebc07" as the `StampsTxID` string.

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://stamps.com/xml/namespace/2013/05/swsim/swsimv29/VoidUnfundedIndicium"
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
  <soap:Body>
    <tns:VoidUnfundedIndicium>
      <tns:Authenticator>***authenticator***</tns:Authenticator>
      <tns:StampsTxID>e6cefc5d-1697-40dc-8194-61a5031ebc07</tns:StampsTxID>
    </tns:VoidUnfundedIndicium>
  </soap:Body>
</soap:Envelope>
```

Response:

```
HTTP 200
```

```

Server: Microsoft-IIS/5.1
Date: Wed, 02 Sep 2009 18:35:09 GMT
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <VoidUnfundedIndiciumResponse
xmlns="http://stamps.com/xml/namespace/2013/05/swsim/swsimv29">
      <Authenticator>***authenticator***</Authenticator>
    </VoidUnfundedIndiciumResponse>
  </soap:Body>
</soap:Envelope>

```

2.29 ChangePassword Web Method

The ChangePassword web method is used to change a user's password. The integration can call ChangePassword with either credentials or authenticator. If used with an authenticator OldPassword (which is the current password) should be provided.

ChangePassword	
Request	<ChangePassword> object (page 83)
Response	<ChangePasswordResponse> object (page 84)
Expected Errors	<p>If an error occurs, the response will be a SOAP fault (page 121). The following error codes are common for this web method:</p> <p>0x450155 – Old Password not provided: This error is returned if a change password was attempted with an authenticator and without providing the current password (as the OldPassword).</p> <p>0x002b0202 – Expired Authenticator: The Authenticator string used to authenticate for the web method call has expired. Authenticators are only valid for 24 hours. The integration should prompt the user to re-enter their password and start a new session with the AuthenticateUser web method.</p> <p>0x002b0203 – Invalid Conversation Token: The Authenticator string used to authenticate for the web method call contains an invalid conversation token. This can occur if the Authenticator sent in request has been invalidated by a login through another instance of the integration. Note: users are restricted to using only one instance of a particular integration at a time. The integration should correct this error by calling the AuthenticateUser web method again and retrying the operation.</p> <p>0x002b0204 – Conversation Out-of-Sync: This error is returned if a prior Authenticator string is re-used. This is an indication that a response message from a previous web method call was lost on the network. The user should be warned and the session can be resynchronized with a call to the AuthenticateUser web method.</p>

	<p>0x002b0601 – Authentication Failed: This error is returned if an incorrect username or password is given.</p> <p>0x002b0605 – Password Reset: This error is returned if the user has used a temporary password to authenticate. In this case, the integration must get a new password from the user and call the <code>FinishPasswordReset</code> web method</p>
--	---

2.29.1 Example

Change Password for the user "test" with password "pwd1"

Request:

```
User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://stamps.com/xml/namespace/2012/01/swsim/swsimv21/ChangePassword"
Content-Length: ####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2012/01/swsim/swsimv21">
  <soap:Body>
    <tns:ChangePassword>
      <tns:Credentials>
        <tns:IntegrationID>09DF7876-DE3C-4c3e-9113-
6C9ACCF7BBA7</tns:IntegrationID>
        <tns:Username>test</tns:Username>
        <tns>Password>pwd1</tns>Password>
      </tns:Credentials>
    </tns:ChangePassword>
  </soap:Body>
</soap:Envelope>
```

Response:

```
HTTP 200
Server: Microsoft-IIS/5.1
Date: Mon, 05 Mar 2011 20:17:42 GMT
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: ####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <ChangePasswordResponse
xmlns="http://stamps.com/xml/namespace/2012/01/swsim/swsimv21">
      <Authenticator>***authenticator***</Authenticator>
    </ChangePasswordResponse>
  </soap:Body>
</soap:Envelope>
```

2.30 CreateEnvelopeIndicium Web Method

The `CreateEnvelopeIndicium` method generates the postage indicium based on the shipping information provided in the request.

The SWS API will return a URL that references an image of the domestic envelope.

Note: Users must not be able to point back to this URL to reprint a shipping label after the ship date has passed.

Special Considerations:

- **Fault-Tolerance:** The `CreateEnvelopeIndicium` method can be called multiple times with the same `IntegratorTxID`. If the initial call to `CreateEnvelopeIndicium` fails due to network or other errors, the call may be repeated to `CreateEnvelopeIndicium` with the same `IntegratorTxID`. The risk of double-billing for postage is eliminated by the integrator building a rollback / retry process.
- `GetRates` may return multiple `<Rate>` objects along with any associated `<AddOn>` secondary objects. Select the desired `<Rate>` object from the `GetRates` response and specify only that one `<Rate>` rate object, with any desired `<AddOn>`s, in the `CreateIndicium` call.

CreateEnvelopeIndicium	
Request	<code><CreateEnvelopeIndicium></code> object (page 84)
Response	<code><CreateEnvelopeIndiciumResponse></code> object (page 86)
Expected Errors	<p>If an error occurs, the response will be a SOAP fault (page 121). The following error codes are common for this web method:</p> <p>0x002b0202 – Expired Authenticator: The <code>Authenticator</code> string used to authenticate for the web method call has expired. Authenticators are only valid for 24 hours. The integration should prompt the user to re-enter their password and start a new session with the <code>AuthenticateUser</code> web method.</p> <p>0x002b0203 – Invalid Conversation Token: The <code>Authenticator</code> string used to authenticate for the web method call contains an invalid conversation token. This can occur if the <code>Authenticator</code> sent in request has been invalidated by a login through another instance of the integration. Note: users are restricted to using only one instance of a particular integration at a time. The integration should correct this error by calling the <code>AuthenticateUser</code> web method again and retrying the operation.</p> <p>0x002b0204 – Conversation Out-of-Sync: This error is returned if a prior <code>Authenticator</code> string is re-used. This is an indication that a response message from a previous web method call was lost on the network. The user should be warned and the session can be resynchronized with a call to the <code>AuthenticateUser</code> web method.</p> <p>0x80040414 – Insufficient Postage: There is insufficient postage in the account to print a single indicium. The integration may use the <code>PurchasePostage</code> web method to replenish the meter and try again.</p>

2.30.1 Example

The example below demonstrates a `CreateEnvelopeIndicium` call for a First Class envelope for an Envelope 10 size.

Request:

User-Agent: Crosscheck Networks SOAPSonar
Content-Type: text/xml; charset=utf-8
SOAPAction:
"http://stamps.com/xml/namespace/2012/01/swsim/swsimv21/CreateEnvelopeIndicium"
Content-Length: #####

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://stamps.com/xml/namespace/2012/01/swsim/swsimv21">
  <soap:Body>
    <tns:CreateEnvelopeIndicium>
      <tns:Authenticator>***authenticator***</tns:Authenticator>
      <tns:IntegratorTxID>1234567890ABCDEF</tns:IntegratorTxID>
      <tns:Rate>
        <tns:FromZIPCode>90405</tns:FromZIPCode>
        <tns:ToZIPCode>90066</tns:ToZIPCode>
        <tns:Amount>0.0</tns:Amount>
        <tns:ServiceType>US-FC</tns:ServiceType>
        <tns:DeliverDays/>
        <tns:WeightLb>0</tns:WeightLb>
        <tns:WeightOz>1</tns:WeightOz>
        <tns:PackageType>Letter</tns:PackageType>
        <tns:ShipDate>2011-03-08</tns:ShipDate>
        <tns:RectangularShaped>true</tns:RectangularShaped>
      </tns:Rate>
      <tns:From>
        <tns:FullName>Some Body</tns:FullName>
        <tns:Address1>3420 Ocean Park Bl</tns:Address1>
        <tns:Address2>Ste 1000</tns:Address2>
        <tns:City>Santa Monica</tns:City>
        <tns:State>CA</tns:State>
        <tns:ZIPCode>90405</tns:ZIPCode>
      </tns:From>
      <tns:To>
        <tns:FullName>GEOFF ANTON</tns:FullName>
        <tns:NamePrefix/>
        <tns:FirstName/>
        <tns:MiddleName/>
        <tns:LastName/>
        <tns:NameSuffix/>
        <tns>Title/>
        <tns:Department/>
        <tns:Company>STAMPS.COM</tns:Company>
        <tns:Address1>12959 CORAL TREE PL</tns:Address1>
        <tns:Address2/>
        <tns:City>LOS ANGELES</tns:City>
        <tns:State>CA</tns:State>
        <tns:ZIPCode>90066</tns:ZIPCode>
        <tns:ZIPCodeAddOn>7020</tns:ZIPCodeAddOn>
        <tns:DPB>59</tns:DPB>
        <tns:CheckDigit>6</tns:CheckDigit>
        <tns:Province/>
        <tns:PostalCode/>
        <tns:Country/>
        <tns:Urbanization/>
        <tns:PhoneNumber/>
        <tns:Extension/>
      </tns:To>
    </tns:CreateEnvelopeIndicium>
  </soap:Body>
</soap:Envelope>
```

```

<tns:CleanseHash>7SWYAzuNh82cWhIQyRFXRNa71HFkZWfKymVlZg==20070513</tns:CleanseHas
h>
  </tns:To>
  <tns:Mode>Normal</tns:Mode>
  <tns:ImageType>Png</tns:ImageType>
  <tns:HideFIM>false</tns:HideFIM>
  <tns:HideReturnAddress>false</tns:HideReturnAddress>
  <tns:HideDeliveryAddress>false</tns:HideDeliveryAddress>
  </tns:CreateEnvelopeIndicium>
</soap:Body>
</soap:Envelope>

```

Response:

```

HTTP 200
Server: Microsoft-IIS/5.1
Date: Mon, 31 Aug 2009 18:58:01 GMT
X-Powered-By: ASP.NET
X-AspNet-Version: 2.0.50727
Cache-Control: private, max-age=0
Content-Type: text/xml; charset=utf-8
Content-Length: #####

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <CreateEnvelopeIndiciumResponse
xmlns="http://stamps.com/xml/namespace/2012/01/swsim/swsimv21">
      <Authenticator>***authenticator***</Authenticator>
      <IntegratorTxID>1234567890ABCDEF</IntegratorTxID>
      <TrackingNumber>40003605381686</TrackingNumber>
      <Rate>
        <FromZIPCode>90405</FromZIPCode>
        <ToZIPCode>90066</ToZIPCode>
        <Amount>0.45</Amount>
        <ServiceType>US-FC</ServiceType>
        <DeliverDays>1</DeliverDays>
        <WeightOz>1</WeightOz>
        <PackageType>Letter</PackageType>
        <ShipDate>2012-03-08</ShipDate>
        <DimWeighting>N</DimWeighting>
        <EffectiveWeightInOunces>1</EffectiveWeightInOunces>
        <IsIntraBMC>true</IsIntraBMC>
        <Zone>1</Zone>
        <RateCategory>287571968</RateCategory>
        <ToState>CA</ToState>
      </Rate>
      <StampsTxID>d71c4ade-df96-4b25-b86a-ccda81e63c63</StampsTxID>
      <URL>https://swsim.testing.stamps.com/label/envelope.ashx/label-
200.png?AQAAAABsfsXxzM4IvG9_Wyri2KNBfbQLP-
nSU7MlAKl4nJNJtWIQmNJdcO8Tz2GvmY37znb5GzELHJOomMtZVsJx_2rNaVe2G17kMzAzCjYAAiMjS2M
jIy7XvLLUnPyCVEMDJqB-
bq_84ozSRAwnlORsrkBHBce8xJzK4hLBwnLEnMySSgXH4uLSosS85FSu4JLE3IJiveT8XGFDI0tTSwXn_
KLEHIWQotRUhYAchv_cPvnFQO3pqTmPxUzOjqyWBgZmZv85LSxMje0MDExNmalpGy7rgABh439GBkYGia
SDLgMyYGJgEPnfW8zAkHiqnvkQI0Kctbi8ODOXD6jdwNjMwNTYwtDMwoyh4QxL20LzHAWHlhx6ePpcBwM
hwMhAM8BIjtmII0MaL5iVGBUYAAA_xtl-A==</URL>
      <PostageBalance>
        <AvailablePostage>#####.##</AvailablePostage>

```

```
<ControlTotal>####.##</ControlTotal>  
</PostageBalance>  
<Mac>3Yi92qm27Zdig1hpclB5IJ3hc-Q=</Mac>  
</CreateEnvelopeIndiciumResponse>  
</soap:Body>  
</soap:Envelope>
```

3 Primary Data Objects

The primary data objects are passed as the only child of the `<soap:Body>` element in a request to or a response from a SWS web method. See the web method descriptions starting on page 8.

3.1 <AuthenticateUser> Object

<AuthenticateUser>			
Element	Data Type	Required	Description
Credentials	Credentials (page 95)	Yes	Container for credentials used to authenticate a user.

3.2 <AuthenticateUserResponse> Object

<AuthenticateUserResponse>			
Element	Data Type	Required	Description
Authenticator	xsd:string	Yes	An opaque string that is to be used in subsequent web method requests in lieu of a <code>Credentials</code> object. While the SWS API allows full <code>Credentials</code> to be supplied in every request, it is preferred to use an <code>Authenticator</code> string to avoid passing sensitive information on every request and to allow the SWS server to detect when messages are lost due to network problems.
LastLoginTime	xsd:datetime	No	The last login time for this user.
ClearCredential	xsd:boolean	Yes	Indicates, if the credentials are not to be saved locally. Value is dependant on the security policy associated with the account.
LoginBannerText	xsd:string	Yes	The banner text if any that should be displayed upon authentication. This is set at the Corp level.
PasswordExpired	xsd:boolean	Yes	True if the user's password has expired, in which case <code>ChangePassword</code> or <code>StartPasswordReset</code> can be used to reset password. Default security policy has no finite password expiry duration.

3.3 <CancelIndicium> Object

<CancelIndicium>			
Element	Data Type	Required	Description
Credentials	Credentials (page 95)	When no Authenticator	Container for credentials used to authenticate a user. Only one of <code>Credentials</code> or <code>Authenticator</code> is allowed, and

			Authenticator is preferred.
Authenticator	xsd:string	When no Credentials	An opaque string obtained in the response of the previous web method call used to authenticate the user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
StampsTxID	xsd:string maxLength=128	When no TrackingNumber	The Stamps.com transaction identifier returned from CreateIndicium. Canceling indicia by StampsTxID instead of by TrackingNumber is highly recommended.
TrackingNumber	xsd:string	When no StampsTxID	The tracking number returned from CreateIndicium or CreateEnvelopeIndicium. Canceling indicia by StampsTxID instead of by TrackingNumber is highly recommended.

3.4 <CancelIndiciumResponse> Object

<CancelIndiciumResponse>			
Element	Data Type	Required	Description
Authenticator	xsd:string	Yes	An opaque string that is to be used in subsequent web method requests in lieu of a Credentials object. While the SWS API allows full Credentials to be supplied in every request, it is preferred to use an Authenticator string to avoid passing sensitive information on every request and to allow the SWS server to detect when messages are lost due to network problems.

3.5 <CarrierPickup> Object

<CarrierPickup>			
Element	Data Type	Required	Description
Credentials	Credentials (page 95)	When no Authenticator	Container for credentials used to authenticate a user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
Authenticator	xsd:string	When no Credentials	An opaque string obtained in the response of the previous web method call used to authenticate the user. Only one of Credentials or Authenticator is allowed, and Authenticator is

			preferred.
FirstName	xsd:string	Yes	Person's first name. Maximum 50 characters.
LastName	xsd:string	Yes	Person's last name. Maximum 50 characters.
Company	xsd:string	No	Company name. Maximum 50 characters.
Address	xsd:string	Yes	Street address. Maximum 50 characters.
SuiteOrApt	xsd:string	No	Suite or apartment number. Maximum 10 characters.
City	xsd:string	Yes	City name. Maximum 30 characters.
State	xsd:string	Yes	Two-character State name.
ZIP	xsd:string	Yes	Zip code. Maximum 5 characters.
ZIP4	xsd:string	No	Zip-4 code. Maximum 4 characters.
PhoneNumber	xsd:string	Yes	Phone number without extension. Maximum 10 digits.
PhoneExt	xsd:string	No	Phone number extension. Maximum 6 digits.
NumberOfExpressMailPieces	xsd:int	No	Number of Priority Mail Express pieces.
NumberOfPriorityMailPieces	xsd:int	No	Number of Priority Mail pieces.
NumberOfInternationalPieces	xsd:int	No	Number of International Mail pieces.
NumberOfOtherPieces	xsd:int	No	Number of mail pieces not included in above three categories.
TotalWeightOfPackagesLbs	xsd:int	Yes	Total weight of packages in pound.
PackageLocation	CarrierPickupLocation (see page 114)	Yes	Indicates where the packages are placed at pickup location.
SpecialInstruction	xsd:string	*No	Special instructions about how to pick up the packages. *Required if PackageLocation is set to Other.

3.6 <CarrierPickupResponse> Object

<CarrierPickupResponse>			
Element	Data Type	Required	Description
Authenticator	xsd:string	Yes	An opaque string that is to be used in subsequent web method requests in lieu of a <code>Credentials</code> object. While the SWS API allows full <code>Credentials</code> to be supplied in every request, it is preferred to use an <code>Authenticator</code> string to avoid passing sensitive information on every request and to allow the SWS server to detect when messages are lost due to network problems.
ErrorMsg	xsd:string	No	Error message if anything is wrong.
PickupDate	xsd:string	Yes	Pickup date.
PickUpDayOfWeek	xsd:string	Yes	Pickup day of week.
ConfirmationNumber	xsd:string	Yes	Confirmation number provided by USPS.

3.7 <CleanseAddress> Object

<CleanseAddress>			
Element	Data Type	Required	Description
Credentials	Credentials (page 95)	When no Authenticator	Container for credentials used to authenticate a user. Only one of <code>Credentials</code> or <code>Authenticator</code> is allowed, and <code>Authenticator</code> is preferred.
Authenticator	xsd:string	When no Credentials	An opaque string obtained in the response of the previous web method call used to authenticate the user. Only one of <code>Credentials</code> or <code>Authenticator</code> is allowed, and <code>Authenticator</code> is preferred.
Address	Address (page 90)	Yes	The address to cleanse. Only one <code><Address></code> object may be passed per <code>CleanseAddress</code> web method call.

3.8 <CleanseAddressResponse> Object

<CleanseAddressResponse>			
Element	Data Type	Required	Description
Authenticator	xsd:string	Yes	An opaque string that

			is to be used in subsequent web method requests in lieu of a <code>Credentials</code> object. While the SWS API allows full <code>Credentials</code> to be supplied in every request, it is preferred to use an <code>Authenticator</code> string to avoid passing sensitive information on every request and to allow the SWS server to detect when messages are lost due to network problems.
Address	Address (page 90)	Yes	Cleansed address. Only one <code><Address></code> object will be returned.
AddressMatch	xsd:boolean	Yes	See <code>CleanseAddress</code> web method description on page 12 for processing information. If true, address has been successfully cleansed, but may have been modified.
CityStateZipOK	xsd:boolean	Yes*	See <code>CleanseAddress</code> web method description on page 12 for processing information. If true, city, state, and zip have been validated and address may be used even if not successfully cleansed. * Only for domestic addresses.
ResidentialDeliveryIndicator	ResidentialDeliveryIndicatorType (Page 121)	Yes	Supported from <code>swsimv16</code> onward. Indicates if the address is a business

			or residential or of unknown type.
IsPOBox	xsd:Boolean	No	<p>If AddressMatch=true, then IsPOBox can be either true or false</p> <p>If AddressMatch=false, then IsPOBox will be null.</p> <p>If IsPOBox=true, the system has identified the matched address as a Post Office Box, otherwise IsPOBox=false</p>
CandidateAddresses	Array of Address objects	Yes	<p>If CleanseAddress does not find an exact match for the given address and one or more matches for the address have been found, the response will contain a list of candidate addresses, up to a maximum of 10.</p> <p>If there are CandidateAddresses, it is recommended that the requestor check the submitted address and add any missing information like Apartment or Suite numbers. Or the requestor can select one of the candidate addresses from the list and retry CleanseAddress making sure to resolve any suite or apartment ranges (by user input) before the retry.</p> <p>Each CandidateAddress contains an Address line, City, State, ZIPCode, ZIPCodeAddOn, and an OverrideHash.</p>

StatusCodes	StatusCodes (page 110)	Yes	StatusCodes return additional information regarding the results of cleansing.
-------------	---------------------------	-----	---

3.9 <CreateIndicium> Object

<CreateIndicium>			
Element	Data Type	Required	Description
Credentials	Credentials (page 95)	When no Authenticator	Container for credentials used to authenticate a user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
Authenticator	xsd:string	When no Credentials	An opaque string obtained in the response of the previous web method call used to authenticate the user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
IntegratorTxID	xsd:string maxLength=128	Yes	The IntegratorTxID (Transaction ID) is a unique number from the integrator's system and used to retry a failed CreateIndicium attempt or locate and reconcile any billable transaction ordered from Stamps.com. Stamps.com issues a StampsTxID response which is the Stamps.com counterpart to this number and a unique ID in the Stamps.com system for a transaction.
TrackingNumber	xsd:string maxLength=128	No	A TrackingNumber is allowed if the integrator has the ability to generate them via a USPS Pub 199 server. This is currently unsupported.
Rate	Rate (page 99)	Yes	A <Rate> object previously returned from the GetRates web method (page 35). Remove <AddOn> elements not desired for the indicium.
From	Address (page 90)	Yes	Return address.
To	Address	Yes	Delivery address. The delivery

	(page 90)		address provided can optionally not be cleansed. In this case CreateIndicium validates that the City, State and Zip matched the corresponding values in the USPS Address Matching system. If not an InvalidDestinationAddress exception is thrown.
CustomerID	xsd:string maxLength=64	No	A customer identifier required for USPS audits, aviation security, and Stamps.com Insurance purchases. Only used if printed postage is being issued to someone other than the Stamps.com user. If a particular customer abuses the system, they may be denied access to the system in the future.
Customs	Customs (page 96)	No*	Customs information. * Required for International.
SampleOnly	xsd:boolean	No	Default is false. If true, generates a sample label without real value. This option is to be used during the testing phase of an integration. It will fully exercise the SWS system, but will not deduct any postage from the meter.
ImageType	ImageType (page 116)	No	Image type of shipping label. Default is Auto: Png for domestic mail and Pdf for international mail.
EltronPrinterDPIType	EltronPrinterDPIType (page 115)	No	Resolution of shipping label for thermal printer.
memo	xsd:string	No	The memo to print at the bottom of the shipping label. The memo parameter may consist of more than one line separated by the standard carriage return/line feed, use <code>&#xd;</code> as carriage return and <code>&#xa;</code> as line feed in the request xml, i.e., <code><tns:memo>memo1&#xd;&#xa;memo2</tns:memo></code> or <code><tns:memo>memo1</code>

			<p>memo2</tns:memo></p> <p>If the memo value is prefixed with a tab, &#x9 or unescaped tab, then the parts of the multi line memo will print side-by-side. Although the API will not return an error when many carriage return and line feed are present in the memo only 1 pair of CR LF is supported due to limited space in a shipping label.</p> <p>For a single line memo, it will print in a single box at the bottom of the label. For a multi-line memo, the first two lines will be put into the two separate boxes of the label</p> <p>If printMemo is set to false, the memo won't be printed.</p>
cost_code_id	xsd:int	No	Cost code ID. See EnumCostCodes web method for more information.
recipient_email	xsd:string	No	E-mail address for recipient of a shipment notification e-mail. If not specified, no shipment notification will be sent.
deliveryNotification	xsd:boolean	No	Set to true to send a delivery notification e-mail back to the e-mail address associated with the Stamps.com account when the mailpiece is delivered.
shipmentNotificationCC	xsd:boolean	No	Set to true to send a copy of the shipment notification e-mail, if any, back to the e-mail address associated with the Stamps.com account.
shipmentNotificationCCToMain	xsd:boolean	No	Reserved for future use.
shipmentNotificationFromCompany	xsd:boolean	No	Set to true to use the company name of the Stamps.com account, instead of the first and last name, in the From line of the shipment notification e-mail, if any.
shipmentNotificationCompanyInSubject	xsd:boolean	No	Set to true to use the company name of the Stamps.com account, instead of the first and last name, in the Subject line of the shipment notification e-mail, if any.

rotationDegrees	xsd:int	No	<p>Set to 0, 90, 180, or 270 to represent the number of degrees of counter-clockwise rotation for the label.</p> <p>Rotation only has an effect for bitmap image types; PDF, EPL, and ZPL will ignore the requested rotation.</p>
horizontalOffset	xsd:int	No	<p>Indicates how many units the label should be offset on the x axis. Applies only to thermal printers. To be used to account for printer specific layout issues.</p> <p>This is encoded as -hN in the human readable portion of the label url, where N is the offset value.</p>
verticalOffset	xsd:int	No	<p>Indicates how many units the label should be offset on the y axis. Applies only to thermal printers. To be used to account for printer specific layout issues.</p> <p>This is encoded as -vN in the human readable portion of the label url, where N is the offset value.</p>
printDensity	xsd:int	No	<p>Density settings for thermal printers, to help control the darkness of the print. The value specified is inserted into the zpl/epl file generated for the label. Refer to the ZPL/EPL programming guide or manual for density values.</p> <p>This is encoded as -dN in the human readable portion of the label url, where N is the density value.</p>
printMemo	xsd:boolean	No	<p>Indicates whether the memo is printed on label. Set to true to print the memo.</p>
printInstructions	xsd:boolean	No	<p>This applies to domestic and international, combined and separate, CP72 and CN22 layouts. For other label types this parameter can be specified but is ignored.</p> <p>If the parameter is omitted, or its value is set to "true", instructions</p>

			<p>will be included as part of the label.</p> <p>For image types, that use single URL to print (Pdf), setting this parameter to "false" will result in excluding instructions in the generated Pdf file.</p> <p>For image types that use multiple URLs, setting this parameter to "false" will result the instructions page URL not being returned if they are contained on separate page, or instructions not being printed if they share the same page as the label.</p>
nonDeliveryOption	NonDeliveryOption (page 122)	No	Specifies the delivery options for use in the CP72 customs form.
RedirectTo	Address (page 90)	No	If nonDeliveryOption (page 122) is Redirect, this address is printed on CP72 customs form; otherwise, this address is ignored.
OriginalPostageHash	xsd:string	No	For internal use only. Integrations may ignore this value.
ReturnImageData	xsd:boolean	No	<p>Determine whether the image URL or the actually image data will be returned in the response object.</p> <p>If ReturnImageData is false, image URL(s) will be returned in URL element in the response object. Caller will need to query the URL(s) to retrieve actual image.</p> <p>If ReturnImageData is true, the actual image data will be returned as base64 string in ImageData element in the response object. The URL element will be an empty string. This mode cannot be used on ImageType of Auto, PrintOncePdf or EncryptedPngUrl.</p>

3.10 <CreateIndiciumResponse> Object

<CreateIndiciumResponse>			
Element	Data Type	Required	Description

Authenticator	xsd:string	Yes	An opaque string that is to be used in subsequent web method requests in lieu of a <code>Credentials</code> object. While the SWS API allows full <code>Credentials</code> to be supplied in every request, it is preferred to use an <code>Authenticator</code> string to avoid passing sensitive information on every request and to allow the SWS server to detect when messages are lost due to network problems.
IntegratorTxID	xsd:string maxLength=128	Yes	Integrator-supplied transaction identifier.
TrackingNumber	xsd:string maxLength=128	Yes	Includes Confirmation Number (Delivery / Signature), Express Tracking Numbers (Priority Mail Express, Priority Mail Express International), Customs Barcode Number.
Rate	Rate (page 99)	Yes	The <code><Rate></code> object from the request modified to include actual cost details.
StampsTxID	xsd:string maxLength=128	Yes	Stamps.com transaction identifier.
URL	xsd:string	Yes	One or more web addresses separated by spaces. Should SWS return multiple web addresses, each address is to be treated as a separate page of the shipping label image.
PostageBalance	PostageBalance (page 99)	Yes	New postage balance, including available postage and control total.
Mac	xsd:string	Yes	For internal use only. Integrations may ignore this value.
PostageHash	xsd:string	Yes	For internal use only. Integrations may ignore this value.
ImageData	xsd:base64Binary[] Array of byte array.	No	Image data for the requested indicium or indicia. This value is only available when <code>ReturnImageData</code> is set to true. If the request returns multiple images, each byte array represents an image.

3.11 <CreateScanForm> Object

< CreateScanForm >			
Element	Data Type	Required	Description
Credentials	Credentials (page 95)	When no Authenticator	Container for credentials used to authenticate a user. Only one of <code>Credentials</code> or <code>Authenticator</code> is allowed, and <code>Authenticator</code> is preferred.
Authenticator	xsd:string	When no	An opaque string obtained in the response of the previous web method

		Credentials	call used to authenticate the user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
StampsTxIDs	xsd:string [] Array of string	No*	Collection of StampsTxID from previous CreateIndicium calls. Can be null if ShipDate is provided.
FromAddress	FromAddress (page 98)	Yes	The sender's address.
ImageType	ImageType (page 116)	Yes	Image type of SCAN form.
PrintInstructions	xsd:boolean	Yes	Indicates if the instruction page is generated.
ShipDate	xsd:date	No*	Effective when StampsTxIDs is null. When ShipDate is non-null, all available prints that have not been cancelled from the specified ShipDate are included on SCAN form. Can be null when a non-null StampsTxIDs is passed in.

3.12 <CreateScanFormResponse> Object

< CreateScanFormResponse >			
Element	Data Type	Required	Description
Authenticator	xsd:string	Yes	An opaque string that is to be used in subsequent web method requests in lieu of a Credentials object. While the SWS API allows full Credentials to be supplied in every request, it is preferred to use an Authenticator string to avoid passing sensitive information on every request and to allow the SWS server to detect when messages are lost due to network problems.
ScanFormId	xsd:string	Yes	The ID of created SCAN form.
Url	xsd:string	Yes	SCAN form URL. If the ImageType is not PDF, this string could include multiple URLs that separated by spaces.

3.13 <CreateUnfundedIndicium> Object

<CreateUnfundedIndicium>			
Element	Data Type	Required	Description
Credentials	Credentials (page 95)	When no Authenticator	Container for credentials used to authenticate a user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
Authenticator	xsd:string	When no Credentials	An opaque string obtained in the response of the previous web method call used to authenticate the user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
IntegratorTxID	xsd:string maxLength=128	Yes	The IntegratorTxID (Transaction ID) is a unique number from the integrator's system. Stamps.com issues a StampsTxID response which is the Stamps.com counterpart to this number and a unique ID in the Stamps.com system for a transaction.
TrackingNumber	xsd:string maxLength=128	No	A TrackingNumber is allowed if the integrator has the ability to generate them via a USPS Pub 199 server. This is currently unsupported.
Rate	Rate (page 99)	Yes	A <Rate> object previously returned from the GetRates web method (page 35). Remove <AddOn> elements not desired for the indicium.
From	Address (page 90)	Yes	Return address.
To	Address	Yes	Delivery address

	(page 90)		
CustomerID	xsd:string maxLength=64	No	A customer identifier required for USPS audits, aviation security, and Stamps.com Insurance purchases. Only used if printed postage is being issued to someone other than the Stamps.com user. If a particular customer abuses the system, they may be denied access to the system in the future.
Customs	Customs (page 99)	No*	Customs information. * Required for International.
SampleOnly	xsd:boolean	No	Default is false. If true, generates a sample label without real value.
ImageType	ImageType (page 116)	No	Image type of shipping label. Default is Auto: Png for domestic mail and Pdf for international mail.
EltronPrinterDPIType	EltronPrinterDPIType (page 115)	No	Resolution of shipping label for DPI printer.
memo	xsd:string	No	The memo to print at the bottom of the shipping label.
cost_code_id	xsd:int	No	Cost code ID. See EnumCostCodes web method for more information.
recipient_email	xsd:string	No	E-mail address for recipient of a shipment notification e-mail. If not specified, no shipment notification will be sent.
deliveryNotification	xsd:Boolean	No	Set to true to send a delivery notification e-mail back to the e-mail address associated with the Stamps.com account when the mailpiece is delivered.
shipmentNotificationCC	xsd:boolean	No	Set to true to send a copy of the shipment notification e-mail, if any, back to the e-mail address associated with the Stamps.com

			account.
shipmentNotificationCCToMain	xsd:boolean	No	Reserved for future use.
shipmentNotificationFromCompany	xsd:boolean	No	Set to true to use the company name of the Stamps.com account, instead of the first and last name, in the From line of the shipment notification e-mail, if any.
shipmentNotificationCompanyInSubject	xsd:boolean	No	Set to true to use the company name of the Stamps.com account, instead of the first and last name, in the Subject line of the shipment notification e-mail, if any.
rotationDegrees	xsd:int	No	Set to 0, 90, 180, or 270 to represent the number of degrees of counter-clockwise rotation for the label. Rotation only has an effect for bitmap image types; PDF, EPL, and ZPL will ignore the requested rotation.

3.14 <CreateUnfundedIndiciumResponse> Object

<CreateUnfundedIndiciumResponse>			
Element	Data Type	Required	Description
Authenticator	xsd:string	Yes	An opaque string that is to be used in subsequent web method requests in lieu of a <code>Credentials</code> object. While the SWS API allows full <code>Credentials</code> to be supplied in every request, it is preferred to use an <code>Authenticator</code> string to avoid passing sensitive information on every request and to allow the SWS server to detect when messages are lost due to network problems.
IntegratorTxID	xsd:string maxLength=128	Yes	Integrator-supplied transaction identifier.
TrackingNumber	xsd:string maxLength=128	Yes	Includes Confirmation Number (Delivery / Signature), Express Tracking Numbers (Priority Mail Express, Priority Mail Express International), Customs Barcode Number.
Rate	Rate (page 99)	Yes	The <code><Rate></code> object from the request modified to include actual cost details.

StampsTxID	xsd:string maxLength=128	Yes	Stamps.com transaction identifier.
URL	xsd:string	Yes	One or more web addresses separated by spaces. In the current implementation, SWS will only return a single web address. Should future versions return multiple web addresses, each address is to be treated as a separate page of the shipping label image.
PostageBalance	PostageBalance (page 98)	Yes	New postage balance, including available postage and control total.

3.15 <EnumCostCodes> Object

<EnumCostCodes>			
Element	Data Type	Required	Description
Credentials	Credentials (page 95)	When no Authenticator	Container for credentials used to authenticate a user. Only one of <code>Credentials</code> or <code>Authenticator</code> is allowed, and <code>Authenticator</code> is preferred.
Authenticator	xsd:string	When no Credentials	An opaque string obtained in the response of the previous web method call used to authenticate the user. Only one of <code>Credentials</code> or <code>Authenticator</code> is allowed, and <code>Authenticator</code> is preferred.

3.16 <EnumCostCodesResponse> Object

<EnumCostCodesResponse>			
Element	Data Type	Required	Description
Authenticator	xsd:string	Yes	An opaque string that is to be used in subsequent web method requests in lieu of a <code>Credentials</code> object. While the SWS API allows full <code>Credentials</code> to be supplied in every request, it is preferred to use an <code>Authenticator</code> string to avoid passing sensitive information on every request and to allow the SWS server to detect when messages are lost due to network problems.
CostCodes	CostCode [] Array of CostCode (page 95)	Yes	Cost codes.

3.17 <FinishPasswordReset> Object

<FinishPasswordReset>			
Element	Data Type	Required	Description

Username	xsd:string maxLength=40	Yes	Username of user completing the password reset process.
TempPassword	xsd:string	Yes	Temporary password obtained from user, who in turn received it via e-mail from StartPasswordReset web method.
NewPassword	xsd:string maxLength=20	Yes	New password. Integrator should ask for password twice in a field that does not display its text to the user and validate user entered it the same both times. Password must be between 6 and 20 characters and contain at least one letter and one number.
IntegrationID	xsd:string maxLength=128	No*	Stamps.com-assigned integration ID. This value is given to the integrator when licensed to create an integration. * Required only for reseller integrations.

3.18 <FinishPasswordResetResponse> Object

<FinishPasswordResetResponse>			
Element	Data Type	Required	Description
<i>This object contains no elements.</i>			

3.19 <FundUnfundedIndicium> Object

<FundUnfundedIndicium>			
Element	Data Type	Required	Description
Credentials	Credentials (page 95)	When no Authenticator	Container for credentials used to authenticate a user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
Authenticator	xsd:string	When no Credentials	An opaque string obtained in the response of the previous web method call used to authenticate the user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
StampsTxID	xsd:string maxLength=128	Yes	The Stamps.com transaction identifier returned from CreateUnfundedIndicium.

3.20 <FundUnfundedIndiciumResponse> Object

<FundUnfundedIndiciumResponse>			
Element	Data Type	Required	Description
Authenticator	xsd:string	Yes	An opaque string that is to be used in subsequent

			web method requests in lieu of a <code>Credentials</code> object. While the SWS API allows full <code>Credentials</code> to be supplied in every request, it is preferred to use an <code>Authenticator</code> string to avoid passing sensitive information on every request and to allow the SWS server to detect when messages are lost due to network problems.
--	--	--	---

3.21 <GetAccountInfo> Object

<GetAccountInfo>			
Element	Data Type	Required	Description
<code>Credentials</code>	<code>Credentials</code> (page 95)	When no <code>Authenticator</code>	Container for credentials used to authenticate a user. Only one of <code>Credentials</code> or <code>Authenticator</code> is allowed, and <code>Authenticator</code> is preferred.
<code>Authenticator</code>	<code>xsd:string</code>	When no <code>Credentials</code>	An opaque string obtained in the response of the previous web method call used to authenticate the user. Only one of <code>Credentials</code> or <code>Authenticator</code> is allowed, and <code>Authenticator</code> is preferred.

3.22 <GetAccountInfoResponse> Object

<GetAccountInfoResponse>			
Element	Data Type	Required	Description
<code>Authenticator</code>	<code>xsd:string</code>	Yes	An opaque string that is to be used in subsequent web method requests in lieu of a <code>Credentials</code> object. While the SWS API allows full <code>Credentials</code> to be supplied in every request, it is preferred to use an <code>Authenticator</code> string to avoid passing sensitive information on every request and to allow the SWS server to detect when messages are lost due to network problems.
<code>AccountInfo</code>	<code>AccountInfo</code> (page 88)	Yes	Account information, including postage balance and user capabilities.
<code>Address</code>	<code>Address</code> (page 90)	Yes	Address for account.
<code>CustomerEmail</code>	<code>xsd:string</code>	Yes	E-mail address for account.

3.23 <GetCodewordQuestions> Object

<GetCodewordQuestions>			
Element	Data Type	Required	Description
<code>Username</code>	<code>xsd:string</code>	Yes	Username of user that has forgotten their password.

	maxLength=40		
IntegrationID	xsd:string maxLength=128	No*	Stamps.com-assigned integration ID. This value is given to the integrator when licensed to create an integration. * Required only for reseller integrations.

3.24 <GetCodewordQuestionsResponse> Object

<GetCodewordQuestionsResponse>			
Element	Data Type	Required	Description
Codeword1Question	xsd:string	Yes	First codeword question (e.g., "What is your mother's maiden name?").
Codeword2Question	xsd:string	Yes	Second codeword question (e.g., "What are the last four digits of your SSN?").

3.25 <GetPurchaseStatus> Object

<GetPurchaseStatus>			
Element	Data Type	Required	Description
Credentials	Credentials (page 95)	When no Authenticator	Container for credentials used to authenticate a user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
Authenticator	xsd:string	When no Credentials	An opaque string obtained in the response of the previous web method call used to authenticate the user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
TransactionID	xsd:int	Yes	Transaction identifier returned from previous call to PurchasePostage web method.

3.26 <GetPurchaseStatusResponse> Object

<GetPurchaseStatusResponse>			
Element	Data Type	Required	Description
Authenticator	xsd:string	Yes	An opaque string that is to be used in subsequent web method requests in lieu of a Credentials object. While the SWS API allows full Credentials to be supplied in every request, it is preferred to use an Authenticator string to avoid passing sensitive information on every request and to allow the SWS server to detect when messages are lost due to network problems.

PurchaseStatus	PurchaseStatus (page 117)	Yes	Status of purchase.
PostageBalance	PostageBalance (page 98)	Yes	New postage balance, including available postage and control total.
RejectionReason	xsd:string	No*	If purchase rejected, reason for rejection. *Only present when PurchaseStatus is Rejected.
MIRequired	xsd:boolean	Yes	For internal use only. Integrations may ignore this value.

3.27 <GetRates> Object

<GetRates>			
Element	Data Type	Required	Description
Credentials	Credentials (page 95)	When no Authenticator	Container for credentials used to authenticate a user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
Authenticator	xsd:string	When no Credentials	An opaque string obtained in the response of the previous web method call used to authenticate the user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
Rate	Rate (page 88)	Yes	Rate object, potentially incomplete, that identifies the basic characteristics of the package, such as destination ZIP code and weight. Only one <Rate> object may be passed per GetRates web method call.

3.28 <GetRatesResponse> Object

<GetRatesResponse>			
Element	Data Type	Required	Description
Authenticator	xsd:string	Yes	An opaque string that is to be used in subsequent web method requests in lieu of a Credentials object. While the SWS API allows full Credentials to be supplied in every request, it is preferred to use an Authenticator string to avoid passing sensitive information on every request and to allow the SWS server to detect when messages are lost due to network problems.
Rates	Rate [] Array of Rate (page 99)	Yes	Collection of <Rate> objects, each one for a possible service type.

			One or more <Rate> objects will be returned as part of the response.
--	--	--	--

3.29 <GetSupportedCountries> Object

< GetSupportedCountries>			
Element	Data Type	Required	Description
Credentials	Credentials (page 95)	When no Authenticator	Container for credentials used to authenticate a user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
Authenticator	xsd:string	When no Credentials	An opaque string obtained in the response of the previous web method call used to authenticate the user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.

3.30 <GetSupportedCountriesResponse> Object

<GetSupportedCountriesResponse>			
Element	Data Type	Required	Description
Authenticator	xsd:string	Yes	An opaque string that is to be used in subsequent web method requests in lieu of a Credentials object. While the SWS API allows full Credentials to be supplied in every request, it is preferred to use an Authenticator string to avoid passing sensitive information on every request and to allow the SWS server to detect when messages are lost due to network problems.
CountryInfo	CountryInfo[] Array of CountryInfo	Yes	An array of CountryInfo (page 95).

3.31 <GetURL> Object

<GetURL>			
Element	Data Type	Required	Description
Credentials	Credentials (page 95)	When no Authenticator	Container for credentials used to authenticate a user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
Authenticator	xsd:string	When no	An opaque string obtained in the response of the previous web method call used to

		Credentials	authenticate the user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
URLType	URLTypeV2 (page 119)	Yes	Type of URL to get (e.g., Home page or Account Settings page).
ApplicationContext	xsd:string	No	If Stamps.com has provided customized web pages for the integration, this can provide additional information to those web pages. Specifics will vary based on the integration.

3.32 <GetURLResponse> Object

<GetURLResponse>			
Element	Data Type	Required	Description
Authenticator	xsd:string	Yes	An opaque string that is to be used in subsequent web method requests in lieu of a Credentials object. While the SWS API allows full Credentials to be supplied in every request, it is preferred to use an Authenticator string to avoid passing sensitive information on every request and to allow the SWS server to detect when messages are lost due to network problems.
URL	xsd:string	Yes	URL to requested page. The URL will contain appropriate authentication information such that the user will not have to re-authenticate on the Stamps.com hosted web page.

3.33 <PurchasePostage> Object

<PurchasePostage>			
Element	Data Type	Required	Description
Credentials	Credentials (page 95)	When no Authenticator	Container for credentials used to authenticate a user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
Authenticator	xsd:string	When no Credentials	An opaque string obtained in the response of the previous web method call used to authenticate the user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
PurchaseAmount	xsd:decimal	Yes	Amount of postage to purchase.
ControlTotal	xsd:decimal	Yes	Control total obtained from previous call to GetAccountInfo or other web method that returns a <PostageBalance> object (page 98). The control total protects the user from purchasing unwanted postage when postage was just printed

			by another user or via another application.
MI	MachineInfo	No	For internal use. Integrators may omit this value.
IntegratorTxID	xsd:string	No	If this value is passed in, the fault-tolerance mechanism will be activated. The service checks if the <code>IntegratorTxID</code> has been used before. If it has been used, the service will treat the call as a replay and simply returns the response of the initial <code>PurchasePostage</code> call without further processing.

3.34 <PurchasePostageResponse> Object

<PurchasePostageResponse>			
Element	Data Type	Required	Description
Authenticator	xsd:string	Yes	An opaque string that is to be used in subsequent web method requests in lieu of a <code>Credentials</code> object. While the SWS API allows full <code>Credentials</code> to be supplied in every request, it is preferred to use an <code>Authenticator</code> string to avoid passing sensitive information on every request and to allow the SWS server to detect when messages are lost due to network problems.
PurchaseStatus	PurchaseStatus (page 117)	Yes	Status of purchase.
TransactionID	xsd:int	Yes	Transaction ID for purchase. Used in later call to <code>GetPurchaseStatus</code> web method.
PostageBalance	PostageBalance (page 98)	Yes	New postage balance, including available postage and control total.
RejectionReason	xsd:string	No*	If purchase rejected, reason for rejection. *Only present when <code>PurchaseStatus</code> is Rejected.
MIRrequired	xsd:boolean	Yes	For internal use only. Integrations may ignore this value.

3.35 <RegisterAccount> Object

<RegisterAccount>			
Element	Data Type	Required	Description
IntegrationID	xsd:string maxLength=128	Yes	Stamps.com-assigned integration ID. This value is given to the integrator when licensed to create an integration.
UserName	xsd:string maxLength=40	Yes	Desired user name for new account. User names are unique in the Stamps.com system; the integration must be prepared to allow the user to

			choose a new user name should their initial choice be taken.
Password	xsd:string minLength=6 maxLength=20	Yes	Password for new account. The password must be at least 6 characters long and must contain at least one letter and one number.
Codeword1Type	CodewordType (page 114)	Yes	First codeword type. Every account has two codewords associated with it that are used during password recovery and when identifying oneself for customer support. The first and second codeword types must be different.
Codeword1	xsd:string minLength=2	Yes	First codeword. Every account has two codewords associated with it that are used during password recovery and when identifying oneself for customer support. For RegisterAccount call the maximum size is 33.
Codeword2Type	CodewordType (page 114)	Yes	Second codeword type. Every account has two codewords associated with it that are used during password recovery and when identifying oneself for customer support. The first and second codeword types must be different.
Codeword2	xsd:string minLength=2	Yes	Second codeword. Every account has two codewords associated with it that are used during password recovery and when identifying oneself for customer support. For RegisterAccount call the maximum size is 33.
PhysicalAddress	Address (SWS/IM Reference)	Yes	The physical address for the account. This must be a fully cleansed address, and may not be a PO Box. The contact information for the account (name, company name, phone number) are obtained from this address object.
MailingAddress	Address (SWS/IM Reference)	No	The mailing address for the account. This element is optional and if not provided, the mailing address for the account will be set equal to the physical address. Usually, this is omitted, but a typical usage of this is when a user wants to use a PO Box for any necessary correspondence from Stamps.com.
MachineInfo	MachineInfo (page 98)	Yes	Contains information identifying the end-users computer.
Email	xsd:string maxLength=41	Yes	E-mail address for new account.
AccountType	AccountType (page 112)	Yes	Type of account: personal, home office, etc.
PromoCode	xsd:string maxLength=50	No	The promo code chooses a billing plan and account features for the new account. This can be omitted, in which case the new account will receive the standard billing plan and features

			associated with the integration ID.
CreditCard	CreditCard (page 96)	When no AchAccount	Credit card details for payment of postage and billing fees.
AchAccount	AchAccount (page 89)	When no CreditCard	Bank account details for payment of postage and billing fees

3.36 <RegisterAccountResponse> Object

<RegisterAccountResponse>			
Element	Data Type	Required	Description
RegistrationStatus	RegistrationStatus (page 117)	Yes	Either Success or Fail. Most failure cases will take the form of a SOAP fault, but if the desired username is already in use, the web method will succeed with this value set to Fail, and a new suggested user name will also be returned.
SuggestedUserName	xsd:string	No	When RegistrationStatus is Fail, this will have a new user name, based on the original requested user name that can be suggested to the end-user.
UserId	xsd:int	Yes	Reserved for future use.
PromoUrl	xsd:string	No	If non-empty, the integration should open a browser window and navigate to the URL provided. The web page displayed will allow the end-user to choose a promotion, such as a discounted scale.

3.37 <StartPasswordReset> Object

<StartPasswordReset>			
Element	Data Type	Required	Description
Username	xsd:string maxLength=40	Yes	Username of user starting the password reset process.
Codeword1	xsd:string maxLength=40	Yes	Answer to first codeword question.
Codeword1	xsd:string maxLength=40	Yes	Answer to second codeword question.
IntegrationID	xsd:string maxLength=128	No*	Stamps.com-assigned integration ID. This value is given to the integrator when licensed to create an integration. * Required only for reseller integrations.

3.38 <StartPasswordResetResponse> Object

<StartPasswordResetResponse>			
Element	Data Type	Required	Description
<i>This object contains no elements.</i>			

3.39 <TrackShipment> Object

<TrackShipment>			
Element	Data Type	Required	Description
Credentials	Credentials (page 95)	When no Authenticator	Container for credentials used to authenticate a user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
Authenticator	xsd:string	When no Credentials	An opaque string obtained in the response of the previous web method call used to authenticate the user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
StampsTxID	xsd:string maxLength=128	When no TrackingNumber	Stamps.com transaction identifier returned from CreateIndicium web method. Only one of StampsTxID or TrackingNumber is necessary.
TrackingNumber	xsd:string maxLength=128	When no StampsTxID	Tracking number returned from CreateIndicium web method. Only one of StampsTxID or TrackingNumber is necessary. Note: TrackingNumbers returned from CreateEnvelopeIndicium are not trackable. The only use of those numbers is to perform an e-refund via CancelIndicium.

3.40 <TrackShipmentResponse> Object

<TrackShipmentResponse>			
Element	Data Type	Required	Description
Authenticator	xsd:string	Yes	An opaque string that is to be used in subsequent web method requests in lieu of a Credentials object. While the SWS API allows full Credentials to be supplied in every request, it is preferred to use an Authenticator string to avoid passing sensitive information on every request and to allow the SWS server to detect when messages are lost due to network problems.
TrackingEvents	TrackingEvent [] Array of TrackingEvent	Yes	Collection of <TrackingEvent> objects, each one representing one scan of the package by the USPS.

	(page 110)		Zero or more <TrackingEvent> objects will be returned as part of the response.
--	------------	--	--

3.41 <VoidUnfundedIndicium> Object

<VoidUnfundedIndicium>			
Element	Data Type	Required	Description
Credentials	Credentials (page 95)	When no Authenticator	Container for credentials used to authenticate a user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
Authenticator	xsd:string	When no Credentials	An opaque string obtained in the response of the previous web method call used to authenticate the user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
StampsTxID	xsd:string maxLength=128	Yes	The Stamps.com transaction identifier returned from CreateIndicium.

3.42 <VoidUnfundedIndiciumResponse> Object

< VoidUnfundedIndiciumResponse >			
Element	Data Type	Required	Description
Authenticator	xsd:string	Yes	An opaque string that is to be used in subsequent web method requests in lieu of a Credentials object. While the SWS API allows full Credentials to be supplied in every request, it is preferred to use an Authenticator string to avoid passing sensitive information on every request and to allow the SWS server to detect when messages are lost due to network problems.

3.43 <ChangePassword> Object

<ChangePassword>			
Element	Data Type	Required	Description
Credentials	Credentials (page 95)	When no Authenticator	Container for credentials used to authenticate a user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.
Authenticator	xsd:string	When no Credentials	An opaque string obtained in the response of the previous web method call used to authenticate the user. Only one of Credentials or Authenticator is allowed, and Authenticator is preferred.

OldPassword	xsd:string	No	The current password for this user. This is parameter is required only if this call is used with an Authenticator.
NewPassword	xsd:string	Yes	The new password for this user.

3.44 <ChangePasswordResponse> Object

<ChangePasswordResponse>			
Element	Data Type	Required	Description
Authenticator	xsd:string	Yes	An opaque string that is to be used in subsequent web method requests in lieu of a <code>Credentials</code> object. While the SWS API allows full <code>Credentials</code> to be supplied in every request, it is preferred to use an <code>Authenticator</code> string to avoid passing sensitive information on every request and to allow the SWS server to detect when messages are lost due to network problems.

3.45 <CreateEnvelopeIndicum> Object

<CreateEnvelopeIndicum>			
Element	Data Type	Required	Description
Credentials	Credentials (page 95)	When no Authenticator	Container for credentials used to authenticate a user. Only one of <code>Credentials</code> or <code>Authenticator</code> is allowed, and <code>Authenticator</code> is preferred.
Authenticator	xsd:string	When no Credentials	An opaque string obtained in the response of the previous web method call used to authenticate the user. Only one of <code>Credentials</code> or <code>Authenticator</code> is allowed, and <code>Authenticator</code> is preferred.
IntegratorTxID	xsd:string maxLength=128	Yes	The <code>IntegratorTxID</code> (Transaction ID) is a unique number from the integrator's system and used to retry a failed <code>CreateIndicum</code> attempt or locate and reconcile any billable transaction ordered from Stamps.com. Stamps.com issues a <code>StampsTxID</code> response which is the Stamps.com counterpart to this number and a unique ID in the Stamps.com system for a

			transaction.
Rate	Rate (page 99)	Yes	A <Rate> object previously returned from the <code>GetRates</code> web method (page 35). Remove <AddOn> elements not desired for the indicium.
From	Address (page 90)	Yes	Return address.
To	Address (page 90)	Yes	Delivery address. The delivery address provided can optionally not be cleansed. In this case <code>CreateIndicium</code> validates that the City, State and Zip matched the corresponding values in the USPS Address Matching system. If not an <code>InvalidDestinationAddress</code> exception is thrown.
CustomerID	xsd:string maxLength=64	No	A customer identifier required for USPS audits, aviation security, and Stamps.com Insurance purchases. Only used if printed postage is being issued to someone other than the Stamps.com user. If a particular customer abuses the system, they may be denied access to the system in the future.
Mode	CreateIndiciumMode (page 122)	No	The manner in which the envelope image is created. Default is Normal.
ImageType	ImageType (page 116)	No	Image type of shipping label. Default is Auto: which generates a Png image.
cost_code_id	xsd:int	No	Cost code ID. See <code>EnumCostCodes</code> web method for more information.
HideFIM	xsd:boolean	No	Indicates if the generated image should have a FIM (Facing Identification Mark). If the generated image is going to be printed on an envelope that already has a FIM, then this value should be true. The default value is false.
HideReturnAddress	xsd:boolean	No	Default value is false.

			<p>Calling application should set to true when printing to envelope that has pre-printed return address or has a window for return address.</p> <p>This has been removed in v23, as a null 'From' address can be used instead.</p>
HideDeliveryAddress	xsd:boolean	No	<p>Default value is false.</p> <p>Calling application should set to true when printing to envelope that has a window for delivery address.</p> <p>This has been removed in v23, as a null 'To' address can be used instead.</p>

3.46 <CreateEnvelopeIndiciumResponse> Object

<CreateEnvelopeIndiciumResponse>			
Element	Data Type	Required	Description
Authenticator	xsd:string	Yes	An opaque string that is to be used in subsequent web method requests in lieu of a <code>Credentials</code> object. While the SWS API allows full <code>Credentials</code> to be supplied in every request, it is preferred to use an <code>Authenticator</code> string to avoid passing sensitive information on every request and to allow the SWS server to detect when messages are lost due to network problems.
TrackingNumber	xsd:string maxLength=128	Yes	<p>A confirm number. If First Class the number is an IMB format confirm number. If Priority or Priority Mail Express an IMB encoded POSTNET equivalent number is returned. Neither of these are trackable.</p> <p>The IMB confirm number can be used for performing an e-refund via <code>CancelIndicium</code>.</p>
Rate	Rate (page 99)	Yes	The <code><Rate></code> object from the request modified to include actual cost details.
StampsTxID	xsd:string maxLength=128	Yes	Stamps.com transaction identifier.
URL	xsd:string	Yes	A web addresses to the envelope image.
PostageBalance	PostageBalance (page 99)	Yes	New postage balance, including available postage and control total.
Mac	xsd:string	Yes	For internal use only. Integrations may ignore this

			value.
PostageHash	xsd:string	Yes	For internal use only. Integrations may ignore this value.

4 Secondary Data Objects

The secondary data objects are passed as children of the primary data objects and may be reused in multiple primary data objects. See the primary data object descriptions starting on page 48.

4.1 <AccountInfo> Object

The <AccountInfo> object is returned from the GetAccountInfo web method and contains the user and account identification information, postage balance, and user capabilities.

<AccountInfo>			
Element	Data Type	Required	Description
CustomerID	xsd:int	Yes	Stamps.com customer ID.
MeterNumber	xsd:int	Yes	USPS meter number.
UserID	xsd:int	Yes	Stamps.com user ID. Note: Stamps.com supports multiple-user accounts – several users may share the same customer ID and meter number, but each will have a unique user ID.
PostageBalance	PostageBalance (page 98)	Yes	Postage balance, including available balance and control total.
MaxPostageBalance	xsd:decimal	Yes	Maximum amount that can ever be stored in the meter.
LPOCity	xsd:string maxLength=29	Yes	Licensing Post Office city.
LPOState	xsd:string maxLength=3	Yes	Licensing Post Office state.
LPOZip	xsd:string maxLength=6	Yes	Licensing Post Office ZIP code.
AccountID	xsd:long	No	Account ID.
CorpID	xsd:int	Yes	Corporation ID.
StoreID	xsd:string	Yes	Online store ID.
CostCodeLimit	xsd:int	Yes	Maximum number of cost codes.
MeterBalanceLimit	xsd:int	Yes	Maximum balance for meter.
MonthlyPostagePurchaseLimit	xsd:int	Yes	Maximum monthly postage purchase amount.
MaxUsers	xsd:int	Yes	Maximum number of users. 1 =

			single-user.
Capabilities	Capabilities (page 93)	Yes	User capabilities. Determines which operations the user should have the rights to perform.
MeterPhysicalAddress	Address (page 90)	Yes	Physical address of meter.
ResubmitStatus			This value is not intended to be used by integrators.
ResubmitCookie			This value is not intended to be used by integrators.
PlanID	xsd:int	Yes	The Stamps.com Plan that the account is on.
PendingPlanID	xsd:int	Yes	The Stamps.com Plan that the account has been upgraded or downgraded to.

4.2 <AchAccount> Object

The <AchAccount> object is used to identify the bank account information for setting the payment method on a new account to ACH. Note: Not all integrations will be allowed to establish ACH accounts.

<AchAccount>			
Element	Data Type	Required	Description
AchAccountType	AchAccountType (page 112)	Yes	Checking or Savings.
BankName	xsd:string maxLength=41	Yes	Bank name.
AccountNumber	xsd:string maxLength=18	Yes	Bank account number.
RouteID	xsd:string maxLength=11	Yes	Bank routing number.
AccountHolderName	xsd:string maxLength=50	Yes	Account-holder name.

4.3 <AddOn> Object

The <AddOn> objects contain any add-on rates / services available for a given service type. See the ServiceType type on page 117.

<AddOn> is a child of the <AddOns> collection, which is a child of the <Rate> object. Zero or more <AddOn> objects will be present in a <Rate> object.

<AddOn>			
Element	Data Type	Required	Description
Amount	xsd:decimal	Yes	This is the amount / surcharge for this add on. Not required as part of a request, but always returned as part of a response.
AddOnType	AddOnType (page 112)	Yes	The type of add-on rate / service.
RequiresAllOf	RequiresOneOf [] Array of RequiresOneOf (page 110)	No	Collection of one or more <RequiresOneOf> objects This value is a hint to the integration that there are required add-ons to go with this add-on. If this add-on is selected, the integration must also choose exactly one add-on from each set of add-ons listed in the <RequiresAllOf> element in order to form a valid rate to be passed to CreateIndicium. The integration may use this hint in preparing a user interface with pre-validation for its users.
ProhibitedWithAnyOf	AddOnType [] Array of AddOnType (page 112)	No	Collection of one or more AddOnType objects. This value is a hint to the integration that there are add-ons that are prohibited to be used this add-on. If this add-on is selected, the integration must not choose any of the add-ons listed in the <ProhibitedWithAnyOf> element in order to form a valid rate to be passed to CreateIndicium. The integration may use this hint in preparing a user interface with pre-validation for its users.
MissingData	xsd:string	No	Describes data missing from the input to the GetRates web method that prevents an amount from being associated with this add-on. For example, the US-A-INS add-on may be listed as an available add-on with no amount if the insured value was not given in the GetRates call. In this case, the MissingData value will identify that the insured value should be provided.

4.4 <Address> Object

The <Address> object describes all possible address-related fields, including some mutually exclusive ones. The integrator may choose which combination of fields to use when specifying an address.

<Address>			
Element	Data Type	Required	Description

FullName	xsd:string	No*	* Only required if not using the separate name fields: NamePrefix, FirstName, MiddleName, LastName, NameSuffix, or Title.
NamePrefix	xsd:string	No	A prefix to go before the person's first name Example: Mr., Ms., Mrs., Misses, Dr., etc. Only used if not using the FullName field.
FirstName	xsd:string	No*	The person's first name. For RegisterAccount call the maximum size is 10. * Only required if not using the FullName field.
MiddleName	xsd:string	No	The person's middle name. For RegisterAccount call the maximum size is 1. Only used if not using the FullName field.
LastName	xsd:string	No*	The person's last name. For RegisterAccount call the maximum size is 40. * Only required if not using the FullName field.
NameSuffix	xsd:string	No	A suffix to go after the person's last name Example: Jr., MD, PhD, etc. Only used if not using the FullName field.
Title	xsd:string	No	The person's title, per 'functional title'. USPS publication 28. For RegisterAccount call the maximum size is 30.
Department	xsd:string	No	The department of the company for this address (e.g. Finance).
Company	xsd:string maxLength=50*	No	The company for this address (e.g. Stamps.com). *Max length 50 for domestic, 32 for International and 40 for RegisterAccount call.
Address1 Address2 Address3	xsd:string	Yes*	Up to three lines of address information. An address line may contain the street address as well as delivery unit (Apt, Ste, etc), separated by a comma. * Only Address1 is required. Max length 50
City	xsd:string maxLength=50*	Yes	The name of the city for this address. *For RegisterAccount call the maximum size is 28.

State	xsd:string	No*	The two-character abbreviation of the state for this address. * Only required for domestic addresses.
ZIPCode	xsd:string	No	The five-digit ZIP Code for this address. Only used for domestic addresses.
ZIPCodeAddOn	xsd:string	No	The "plus 4" portion of the ZIP Code for this address. max length 4 Only used for domestic addresses.
DPB	xsd:string	No	The two-digit delivery point code portion of the ZIP Code for this address. Only used for domestic addresses, and obtained from the <code>CleanseAddress</code> method.
CheckDigit	xsd:string	No	The one-digit check digit for the ZIP Code for this address. Only used for domestic addresses, and obtained from the <code>CleanseAddress</code> method.
Province	xsd:string	No	The province portion of this address. Only used for international addresses.
PostalCode	xsd:string	No	The postal code portion of this address. Only used for international addresses.
Country	xsd:string	No*	The country portion of this address. Must exactly match one of the supported country names. * Only required for international addresses.
Urbanization	xsd:string	No	The urbanization portion of this address. max length 28 Only used for addresses in Puerto Rico.
PhoneNumber	xsd:string	No*	The phone number associated with this address. * Required in the following cases: - The From address for domestic Priority Mail Express - The To address for all international addresses - The From address for all international addresses For RegisterAccount call the maximum size is 10.
Extension	xsd:string	No	The extension of the phone number associated with this address.

CleanseHash	xsd:string	No	Returned from the CleanseAddress process. Store the cleanse hash with a cleansed address to allow re-use of this address without requiring another cleanse.
OverrideHash	xsd:string	No	Returned from the CleanseAddress process. If the user chooses not to use the modifications made to an address when a match is found, or if only the city, state, and ZIP Code are OK, the address may still be used to create an indicium by including the OverrideHash with the address.

4.5 <Capabilities> Object

The <Capabilities> object is a child of the <AccountInfo> object. Using this information, the integration can determine which operations the user should have the rights to perform and tailor the user interface accordingly.

<PostageBalance>			
Element	Data Type	Required	Description
CanPrintShipping	xsd:boolean	Yes	True if user can print shipping labels.
CanUseCostCodes	xsd:boolean	Yes	True if user can use cost codes.
CanUseHiddenPostage	xsd:boolean	Yes	True if user can print shipping labels with hidden postage.
CanPurchaseSDCInsurance	xsd:boolean	Yes	True if user can purchase Stamps.com insurance.
CanPrintMemoOnShippingLabel	xsd:boolean	Yes	True if user can print shipping labels with memo fields.
CanPrintInternational	xsd:boolean	Yes	True if user can print International shipping labels.
CanPurchasePostage	xsd:boolean	Yes	True if user can purchase postage.
CanEditCostCodes	xsd:boolean	Yes	True if user can edit cost codes.
MustUseCostCodes	xsd:boolean	Yes	True if user must use a cost code when printing.
CanViewOnlineReports	xsd:boolean	Yes	True if user can view online reports via Stamps.com hosted web pages.
PerPrintLimit	xsd:decimal	Yes	Default: 922337203685477.5807 (unlimited) Maximum amount user can print in a single indicium. The default value is a special value, 922337203685477.5807, reserved to mean unlimited.
AllowAllMailClasses	xsd:boolean	Yes	True if user is allowed to print all

			possible mail classes. Some accounts are restricted to printing the premium mail classes (Priority Mail and Priority Mail Express) only.
CanPrintReturnShippingLabel	xsd:boolean	Yes	True if user can print return shipping labels.
CanManageUsers	xsd:boolean	Yes	True if user can manage other users on a multi-user account.
CanPrintNetStamps	xsd:boolean	Yes	True if user can print NetStamps.
CanEmailNotifications	xsd:boolean	Yes	True if user can request e-mail notifications for shipments.
CanViewReports	xsd:boolean	Yes	True if user can view reports.
CanCreateSCANForm	xsd:boolean	Yes	True if user can create SCAN forms.
AllowRestrictedSheets	xsd:boolean	Yes	True if user can use restricted NetStamps sheets.
HideUnavailableFeatures	xsd:boolean	Yes	True if user should not be able to see unavailable features.
WebPostage	xsd:boolean	Yes	True if user can print via the web-based postage printing website.
CanViewInsuranceHistory	xsd:boolean	Yes	True if user can view insurance history.
CanChangeServicePlan	xsd:boolean	Yes	True if user can change service plans.
HideEstimatedDeliveryTime	xsd:boolean	Yes	True if user should not be able to see estimated delivery times.
CanPurchaseFromStore	xsd:boolean	Yes	True if user can purchase from the online store.
CanChangePhysicalAddress	xsd:boolean	Yes	True if user can change the physical address of their meter.
CanChangePaymentMethod	xsd:Boolean	Yes	True if user can change payment methods.
CanChangeContactInfo	xsd:boolean	Yes	True if user can change contact information.
CanViewAdvancedReporting	xsd:boolean	Yes	True if user can view advanced reports.
CanCreateCriticalMail	xsd:boolean	Yes	True if user is allowed to print Critical Mail.
CanUseInvoicing	xsd:boolean	Yes	True if user uses invoicing billing method. Invoicing billing method allows user to print but not to purchase any postage beforehand. User will be billed at the end of billing cycle based on the used

			postage.
CanUseCertifiedMail	xsd:boolean	Yes	True if user is allowed to print Certified Mail.
CanPrintAllIndiciumValues	xsd:boolean	Yes	True if user is allowed to print indicium with any postage value. False if user is only allowed to print one ounce First Class Letter. This constraint applies to CreateNetStampsIndicia and CreateMailingLabelIndicia.

4.6 <CostCode> Object

<CostCode>			
Element	Data Type	Required	Description
id	xsd:int	Yes	Cost code ID.
name	xsd:string	Yes	Cost code name.

4.7 <CountryInfo> Object

<CostCode>			
Element	Data Type	Required	Description
Name	xsd:string	Yes	Full name of the country.
IsoCode	xsd:string	Yes	The two-letter ISO code that can be put in ToCountry element in an international address.

4.8 <Credentials> Object

The <Credentials> object is used by most of the primary request objects. It supplies initial authentication information to the SWS server. Integrations should prefer to only use the <Credentials> object in the AuthenticateUser web method and then use the Authenticator string for future web method calls.

<AccountInfo>			
Element	Data Type	Required	Description
IntegrationID	xsd:string maxLength=128	Yes	Stamps.com-assigned integration ID. This value is given to the integrator when licensed to create an integration.
Username	xsd:string	Yes	Username of user logging in or for whom the web

	maxLength=40		method is being called.
Password	xsd:string	Yes	Password of user.

4.9 <CreditCard> Object

The <CreditCard> object is used to identify the credit card information for setting the payment method on a new account.

<CreditCard>			
Element	Data Type	Required	Description
CreditCardType	CreditCardType (page 115)	Yes	Visa, Mastercard, etc.
AccountNumber	xsd:string maxLength=20	Yes	Credit card number.
CVN	xsd:string maxLength=8	No	Card verification number.
ExpirationDate	xsd:date	Yes	The expiration date of the credit card. Only the month and year of this date are relevant.
BillingAddress	Address (page 90)	No	If not specified, the billing address will default to the mailing address (which in turn defaults to the physical address if not specified). The name portion of this address is used as the "cardholder name", so this address object should be specified even if just the cardholder name differs from the name on the mailing address.

4.10 <Customs> Object

<Customs>			
Element	Data Type	Required	Description
ContentType	ContentType (page 114)	Yes	Content type. One of: Commercial Sample, Gift, Document, or Other.
Comments	xsd:string maxLength=76	No	Comments.
LicenseNumber	xsd:string maxLength=6	No	License number.
CertificateNumber	xsd:string maxLength=8	No	Certificate number.
InvoiceNumber	xsd:string	No	Invoice number.

	maxLength=15		
OtherDescribe	xsd:string maxLength=20	No*	Other description. * Required when ContentType is Other.
CustomsLines	CustomsLine [] Array of CustomsLine (page 97)	Yes	Collection of <CustomsLine> objects Contains 1..n <CustomsLine> objects. Priority Mail International allows up to 5 lines. All other international services allow up to 30. APO/FPO CN22 allows upto 5 lines.

4.11 <CustomsLine> Object

<CustomsLine>			
Element	Data Type	Required	Description
Description	xsd:string, maxLength = 60	Yes	Description.
Quantity	xsd:double	Yes	Quantity.
Value	xsd:decimal	Yes	Value in dollars. Negative values are disallowed. Zero is disallowed for APO/FPO destinations. See Appendix D for more information on this element.
WeightLb	xsd:double	No*	The pounds portion of the weight with a precision of up to hundredths of a pound. The final weight used to calculate the rate will be WeightLb times 16 plus WeightOz ounces * Must be specified if WeightOz is blank or 0. See Appendix D for more information on this element.
WeightOz	xsd:double	No*	The ounces portion of the weight with a precision of up to hundredths of an ounce. The final weight used to calculate the rate will be WeightLb times 16 plus WeightOz ounces. * Must be specified if WeightLb is blank. See Appendix D for more information on this element.
HSTariffNumber	xsd:string maxLength=6	No	For commercial items only. If known, the HS tariff number (6-digit) must be based on the Harmonized Commodity Description and Coding System developed by the World Customs

			Organization.
CountryOfOrigin	xsd:string maxLength=2	No	<p>For commercial items only. Country of Origin means the country where the goods originated, e.g. were produced, manufactured, or assembled. It is recommended that a shipper supply this information and attach an invoice to the outside of the package to accelerate customs clearance in processing the items.</p> <p>The country name entered must match an entry from the USPS-approved International Index of Countries and Localities or be "US".</p>

4.12 <FromAddress> Object

The <FromAddress> object is used to specify sender's address for a SCAN form.

<FromAddress>			
Element	Data Type	Required	Description
name_	xsd:string	No	Sender's name.
title_	xsd:string	No	<p>Sender's title.</p> <p>Example: Mr., Ms., Mrs., Misses, Dr., etc.</p>
dept_	xsd:string	No	The department of the company for sender's address (e.g. Finance).
company_	xsd:string	No	The company of sender's address (e.g. Stamps.com).
address_1_ address_2_	xsd:string	Yes	<p>Up to two lines of address information.</p> <p>An address line may contain the street address as well as delivery unit (Apt, Ste, etc), separated by a comma.</p> <p>* Only address_1_ is required.</p>
urbanization_	xsd:string	No	<p>The urbanization portion of this address.</p> <p>Only used for addresses in Puerto Rico.</p>
city_	xsd:string	Yes	The name of the city for sender's address.
state_	xsd:string	No*	<p>The two-character abbreviation of the state for sender's address.</p> <p>* Only required for domestic addresses.</p>
zip_code_	xsd:string	No	<p>The five-digit ZIP Code for sender's address.</p> <p>Only used for domestic addresses.</p>

zip_code_add_on_	xsd:string	No	The "plus 4" portion of the ZIP Code for sender's address. max length 4 Only used for domestic addresses.
phone_number_	xsd:string	No	The phone number associated with sender's address.

4.13 <MachineInfo> Object

The <MachineInfo> object is used to identify information about the end-user's machine. The integrator is encouraged to gather as much of this information as possible from the end-user's machine, depending upon the capabilities of the integration itself. For example, obtaining the MAC address of the end-user's machine is not feasible from a web-based application.

<MachineInfo>			
Element	Data Type	Required	Description
IPAddress	xsd:string maxLength=15	Yes	IP address.
MacAddress	xsd:string maxLength=8	No	MAC address. Form is up to 8 hexadecimal digits.
FP	FP	No	Reserved for future use. Integrators may omit this value for now.

4.14 <PostageBalance> Object

The <PostageBalance> object is a child of the <AccountInfo> object, the <CreateIndiciumResponse> object, the <GetPurchaseStatus> object, and the <PurchasePostageResponse> object. The integration should keep track of the <PostageBalance> object to display the available postage to the user and to provide a control total to the PurchasePostage web method.

<PostageBalance>			
Element	Data Type	Required	Description
AvailablePostage	xsd:decimal	Yes	Current balance of available postage in the meter.
ControlTotal	xsd:decimal	Yes	Control total to be passed to PurchasePostage web method when purchasing additional postage.

4.15 <Rate> Object

<Rate>			
Element	Data Type	Required	Description
FromZIPCode	xsd:string minLength=3 maxLength=10	No for GetRates web method, Yes for CreateIndicum web method or CreateNetStampsIndicia web method	The shipper's ZIP Code. This is required to accurately calculate some rates. * Only first 3 digits are required.
ToZIPCode	xsd:string minLength=3 maxLength=10	No for GetRates web method and International Postage in CreateIndicum web method or CreateNetStampsIndicia web method Yes for domestic postage in CreateIndicum web method or CreateNetStampsIndicia web method	The destination or recipients ZIP Code. * Only first 3 digits required. * Required for domestic.
ToCountry	xsd:string maxLength=2	No*	The destination or recipient's country. The country name entered must match an entry from the USPS-approved International Index of Countries and Localities or be "US". * Required for international.
Amount	xsd:decimal	No	Format: Decimal with up to three digits to the right of the decimal point This is the rate cost for the particular shipment option. If this is blank or missing, check the error attribute for a reason. If there is not enough information in the input Rate object to calculate an exact amount, Amount will be set to the lower bound of the known range and MaxAmount will be set to the upper bound. For example, if the the ToZipCode is omitted and the Rate is for a zone-based service, Amount will be the amount for the closest zone (1) and MaxAmount will be the amount for the furthest zone (8).

			<p>In this case, some other elements of the <code>Rate</code> object may not apply in all cases. For example, when <code>Amount</code> and <code>MaxAmount</code> indicate a range of possible amounts, <code>DimWeighting</code> may only apply for the furthest zones (5-8).</p>
<code>MaxAmount</code>	<code>xsd:decimal</code>	No	<p>Format: Decimal with up to three digits to the right of the decimal point</p> <p>This is the maximum rate cost for the particular shipment option.</p> <p>When the exact rate can be calculated, <code>MaxAmount</code> will be equal to <code>Amount</code>.</p> <p>If there is not enough information in the input <code>Rate</code> object to calculate an exact amount, <code>Amount</code> will be set to the lower bound of the known range and <code>MaxAmount</code> will be set to the upper bound. For example, if the <code>ToZipCode</code> is omitted and the <code>Rate</code> is for a zone-based service, <code>Amount</code> will be the amount for the closest zone (1) and <code>MaxAmount</code> will be the amount for the furthest zone (8).</p> <p>In this case, some other elements of the <code>Rate</code> object may not apply in all cases. For example, when <code>Amount</code> and <code>MaxAmount</code> indicate a range of possible amounts, <code>DimWeighting</code> may only apply for the furthest zones (5-8).</p>
<code>ServiceType</code>	<code>ServiceType</code> (page 117)	Yes*	<p>* Required for <code>CreateIndicium</code> web method.</p> <p>* Not required for <code>GetRates</code> web method. If not specified in <code>GetRates</code>, the <code><Rate></code> object in the response will include rates for all <code>ServiceTypes</code>.</p>
<code>PrintLayout</code>	<code>xsd:string</code>	No	<p>The value specified will determine the format of the label image that is generated by the <code>CreateIndicium</code> web method or the envelope image that is generated by the <code>CreateEnvelopeIndicium</code> web</p>

			<p>method</p> <p>Available options are:</p> <p>Normal or no value is specified: A 4" x 6" label will be generated.</p> <p>For Critical Mails, this option generates labels for windowed envelopes.</p> <p>NormalLeft: A 4" x 6" label will be generated on the left side of the page.</p> <p>NormalRight: A 4" x 6" label be generated on the right side of the page.</p> <p>Normal4X6: A 4" x 6" label be generated on a 4" x 6" page.</p> <p>This option only applies to Critical Mails.</p> <p>Normal6X4: A 6" x 4" label be generated on a 6" x 4" page.</p> <p>This option only applies to Critical Mails.</p> <p>Normal75X2: A 7.5" x 2" label on a 7.5" x 2" page.</p> <p>This option only applies to domestic First Class or Priority packages.</p> <p>NormalReceipt: A 4" x 6" label and receipt be generated.</p> <p>NormalCN22 *: A 4" x 6" label on 8.5" x 11" sheet with Customs Form CN 22 will be generated.</p> <p>If ZPL or EPL is chosen as image type, a combined postage and customs CN 22 form is generated in a 4" x 6" layout.</p> <p>With swsimv17 version of the interface, this layout will generate a "Combined Postage and Customs Form" to a APO/FPO or US Territory destination for the following service types: US-PM, US-FC, US-MM, US-PP/US-PS for any image type.</p>
--	--	--	---

			<p>NormalCP72 *: A 4" x 6" label on 8.5" x 11" page with Customs Form CP 72 will be generated.</p> <p>With swsimv14 version of the interface, this layout will generate a "Combined Postage and Customs Form" to a APO/FPO destination for the following service types: US-PM.</p> <p>With swsimv14 version of the interface, this layout will generate a "Combined Postage and Customs Form" to a APO/FPO destination or US Territory for the following service types: US-PM, US-FC, US-MM, US-PP/US-PS.</p> <p>swsimv13 and earlier will have no change in functionality and will continue to generate a 4" x 6" label and a separate Customs Form CP 72.</p> <p>Normal4X6CN22: A 4" x 6" label on a 4" x 6" page with Customs Form CN 22 will be generated.</p> <p>Normal6X4CN22: A 6" x 4" label on a 4" x 6" page with Customs Form CN 22 will be generated.</p> <p>Normal4X6CP72: A 4" x 6" label on a 4" x 6" page with Customs Form CP 72 will be generated.</p> <p>Normal6X4CP72: A 6" x 4" label on a 4" x 6" page with Customs Form CP 72 will be generated.</p> <p>Normal4X675: A label for 4" x 6¾" doc-tab will be generated.</p> <p>Normal4X675CN22 *: A label with Customs Form CN 22 for 4" x 6¾" doc-tab will be generated.</p> <p>Normal4X675CP72 *: A label with Customs Form CP 72 for 4" x 6¾" doc-tab will be generated.</p> <p>Return: A 4" x 6" return label will be generated. Return labels do not have shipping date on them.</p> <p>ReturnCN22 *: A 4" x 6" return label with Customs Form CN 22</p>
--	--	--	---

			<p>will be generated.</p> <p>ReturnCP72 *: A 4" x 6" return label with Customs Form CP 72 will be generated.</p> <p>Return4X675: A return label for 4" x 6¾" doc-tab will be generated.</p> <p>Return4X675CN22 *: A return label with Customs Form CN 22 for 4" x 6¾" doc-tab will be generated.</p> <p>Return4X675CP72 *: A return label with Customs Form CP 72 for 4" x 6¾" doc-tab will be generated.</p> <p>*This option is for APO/FPO addresses only.</p> <p>SDC3610 *: SDC3710 *: SDC3810: SDC3910:</p> <p>Stamps.com Certified Mail form SDC-3610, SDC-3710, SDC-3810 and SDC-3910. (See Appendix G – Best Practices to print on Certified Mail Forms)</p> <p>*Those layouts contain multiple labels per sheet. Integrators can add a switch to the label URL to control the position a label is rendered. For example, https://host/Label/label.ashx/label-200-p1,3.png?xxxxxxx, where - p1,3 indicates the label will be rendered at the first row,third column on the sheet.</p> <p>Envelope PrintLayouts supported by CreateEnvelopeIndicum include:</p> <ul style="list-style-type: none"> • Envelope9, • Envelope10, • Envelope11, • Envelope12, • EnvelopePersonal,
--	--	--	--

			<ul style="list-style-type: none"> EnvelopeMonarch, EnvelopeInvitation EnvelopeGreeting <p>Here are the descriptions of these layouts:</p> <p>Envelope9 - Envelope #9 (3 7/8 x 8 7/8")</p> <p>Envelope10 - Envelope #10 (4 1/8 x 9 1/2")</p> <p>Envelope11 - Envelope #11 (4 1/2 x 10 3/8")</p> <p>Envelope12 - Envelope #12(4 3/4 x 11")</p> <p>EnvelopePersonal - Envelope Personal (3 5/8 x 6 1/2")</p> <p>EnvelopeMonarch - Envelope Monarch (3 7/8 x 7 1/2")</p> <p>EnvelopeInvitation - Envelope NCR Invitation (5 3/4 x 4 3/8")</p> <p>EnvelopeGreeting - Envelope NCR Greeting (8 3/4 x 5 3/4")</p>
DeliverDays	xsd:string	No	<p>Format: Character string in the format "n-m", n being minimum number of days, m being maximum number of days.</p> <p>Blank if no delivery time estimates are available.</p>
Error	xsd:string	No	<p>If an amount isn't returned for this rate, there will be an error code. Only the first reason will be listed. E.g. Over maximum weight, oversize, etc.</p>
WeightLb	xsd:double	No*	<p>The pounds portion of the weight with a precision of up to hundredths of a pound.</p> <p>The final weight used to calculate the rate will be <code>WeightLb</code> times 16 plus <code>WeightOz</code> ounces.</p> <p>* Must be specified if <code>WeightOz</code> is blank or 0.</p>
WeightOz	xsd:double	No*	<p>The ounces portion of the weight with a precision of up to</p>

			<p>hundredths of an ounce.</p> <p>The final weight used to calculate the rate will be <code>WeightLb</code> times 16 plus <code>WeightOz</code> ounces.</p> <p>* Must be specified if <code>WeightLb</code> is blank.</p>
<code>PackageType</code>	<code>PackageTypeV6</code> (page 115)	No*	<p>One of: Large Envelope or Flat, Thick Envelope, Package, Flat Rate Box, Small Flat Rate Box, Large Flat Rate Box, Flat Rate Envelope, Large Package, or Oversize Package, Regional Rate Box A, Regional Rate Box B, Legal Flat Rate Envelope, Regional Rate Box C.</p> <p>*When <code>PackageType</code> is submitted, the <code>GetRates</code> web method will respond with the rate based on the specified package. However, if <code>PackageType</code> is omitted, the <code>GetRates</code> web method will respond with rates for all of the possible package types for the given <code>ServiceType</code>.</p> <p>* <code>PackageType</code> is required for <code>CreateIndicium</code> web method.</p>
<code>RequiresAllOf</code>	<code>RequiresOneOf</code> [] Array of <code>RequiresOneOf</code> (page 110)	No	<p>Collection of one or more <code><RequiresOneOf></code> objects</p> <p>This value is a hint to the integration that there are required add-ons to go with this rate. The integration must choose exactly one add-on from each set of add-ons listed in the <code><RequiresAllOf></code> element in order to form a valid rate to be passed to <code>CreateIndicium</code>. The integration may use this hint in preparing a user interface with pre-validation for its users.</p>
<code>Length</code>	<code>xsd:double</code>	No*	<p>Represents the length in inches and tenths of an inch.</p> <p>* Dimensions are required for proper rating whenever a <code><Rate></code> object in a response to the <code>GetRates</code> web method has <code>DimWeighting = "Y"</code></p>
<code>Width</code>	<code>xsd:double</code>	No*	Represents the width in inches

			<p>and tenths of an inch.</p> <p>* Dimensions are required for proper rating whenever a <Rate> object in a response to the <code>GetRates</code> web method has <code>DimWeighting = "Y"</code></p>
Height	xsd:double	No*	<p>Represents the height in inches and tenths of an inch.</p> <p>* Dimensions are required for proper rating whenever a <Rate> object in a response to the <code>GetRates</code> web method has <code>DimWeighting = "Y"</code></p>
ShipDate	xsd:date	Yes	<p>This is the date the package will be picked up or officially enter the mail system. This date can be upto 3 days in the future for any international mail service and domestic Priority Mail Express.</p> <p>For all other domestic mail services the date can be upto 7 days in the future.</p> <p>For ServiceType US-MM, US-PP and US-FC with no US-A-DC or US-A-SC this date can be upto 30 days in the future.</p> <p>The calculated rate will be based on this date.</p>
InsuredValue	xsd:decimal	No	<p>The amount to insure this shipment for, in dollars and cents.</p> <p>If a value is specified, insurance add-ons will be returned.</p>
RegisteredValue	xsd:decimal	No	<p>The registered value for this shipment, in dollars and cents.</p> <p>Reserved for future use.</p>
CODValue	xsd:decimal	No	<p>The collect on delivery value for this shipment, in dollars and cents.</p> <p>Reserved for future use.</p>
DeclaredValue	xsd:decimal	No*	<p>The amount to declare for this shipment, in dollars and cents.</p> <p>* Required for International.</p>
NonMachinable	xsd:boolean	No	Default: false

			This is used to calculate a potential additional handling surcharge for certain types of items being sent. See DMM 401 for what qualifies.
RectangularShaped	xsd:boolean	No	Default: true Represents whether or not the parcel being sent is rectangular-shaped, or box-like. For dim-weight-based rates (Priority Mail), non-rectangular-shaped parcels may lower the effective weight.
Prohibitions	xsd:string	No	List of items prohibited from mailing based on country of destination. Only used for International.
Restrictions	xsd:string	No	Restrictions on items being shipped based on country of destination. Only used for International.
Observations	xsd:string	No	Additional mailing information based on country of destination. Only used for International.
Regulations	xsd:string	No	Additional regulations for shipping to destination country. Only used for International.
GEMNotes	xsd:string	No	Notes specific to Priority Mail Express International service. Only used for international when <i>ServiceType</i> is US-GEM.
MaxDimensions	xsd:string	No	Only returned for international mail classes, this field explains the maximum package dimensions for this mail class and destination country.
DimWeighting	xsd:boolean	No	If a <Rate> object is returned from a <i>GetRates</i> call with <i>DimWeighting</i> = "Y", this indicates that the dimensions of the package may have an impact on the rate. Be sure to also include the <i>Length</i> , <i>Width</i> and <i>Height</i> for proper rating whenever <i>DimWeighting</i> = "Y".

AddOns	AddOn [] Array of AddOn (page 88)	No	<p>Collection of one or more <AddOn> objects</p> <p>One or more <AddOn> objects will be returned for each add-on for a given ServiceType.</p> <p><AddOn>s are passed as part of the CreateIndicium web method request to select the add-ons to be included in the postage printing. Returned in the <GetRatesResponse> object.</p>
EffectiveWeightInOunces	xsd:int	No	<p>Effective weight, which is calculated based on weight and dimensions of the mail piece, in ounces.</p> <p>Returned in the <GetRatesResponse> object.</p>
IsIntraBMC	xsd:Boolean	No	<p>Indicates if the mail piece is eligible for Intra-BMC (Bulk Mail Center) rate. Intra-BMC is no longer needed for USPS. So the value can be ignored.</p> <p>Returned in the <GetRatesResponse> object.</p>
Zone	xsd:int	No	<p>Zone number of the mail piece.</p> <p>Returned in the <GetRatesResponse> object.</p>
RateCategory	xsd:int	No	<p>Rate Category of the mail piece.</p> <p>Returned in the <GetRatesResponse> object.</p>
ToState	xsd:string	No	<p>Destination State name. If it is specified, <GetRates> object detects whether the destination is supported by USPS.</p>
CubicPricing	xsd:boolean	No	<p>If a <Rate> object is returned from a GetRates call with CubicPricing = "Y", this indicates that the dimensions of the package may qualify the package for cubic pricing. Be sure to also include the Length, Width and Height for proper rating whenever CubicPricing = "Y".</p>

4.16 <RequiresOneOf> Object

The <RequiresOneOf> object is simply an array of <AddOnType> objects. It is always a child of the <RequiresAllOf> object. Together, the <RequiresAllOf> and <RequiresOneOf> objects define a set of hints that the integration can use to determine which add-ons are required for a particular rate, and which add-ons are required to be combined together.

<RequiresOneOf>			
Element	Data Type	Required	Description
AddOnType	AddOnType (page 112)	Yes	The type of add-on rate / service.

4.17 <StatusCodes> Object

<StatusCodes>			
Element	Data Type	Required	Description
DpvFootnotes	Array of DpvFootnote objects	No	Array of DPV Footnotes returned by the USPS Address Matching System API. DPV is a USPS product that will help mailers validate the accuracy of their address information, right down to the physical delivery point. Mailers will be able to identify individual addresses within a mailing list that are potentially undeliverable-as-addressed due to an addressing deficiency. For detailed information of DPV footnotes, please refer to the USPS Address Matching System API document, DPV Appendix: https://ribbs.usps.gov/amsapi/documents/tech_guides/AMSAPIUG.PDF
Footnotes	Array of Footnote objects	No	Array of Footnotes returned by the USPS Address Matching System API. Footnotes provide additional information returned from the USPS Address Matching System. They identify whether or not any changes were made to the address, including what were the specific changes. For detailed information of footnotes, please refer to the USPS Address Matching System API document, section of Footnote Flags: https://ribbs.usps.gov/amsapi/documents/tech_guides/AMSAPIUG.PDF
ReturnCode	xsd:int	Yes	Return Code from the USPS Address Matching System API. Return Code contains a response code summarizing the inquiry results. For detailed information of the Return Code, please refer to the USPS Address Matching System API document, section of Address Inquiry: https://ribbs.usps.gov/amsapi/documents/tech_guides/AMSAPIUG.PDF
SdcFootnotes	Array of xsd:int	No	Reserved for future use.

4.18 <Footnote> Object

<Footnote>			
------------	--	--	--

Element	Data Type	Required	Description
Value	xsd:string maxLength = 1 minLength = 1	Yes	Refer to <StatusCodes> Object.

4.19 <DpvFootnote> Object

<DpvFootnote>			
Element	Data Type	Required	Description
Value	xsd:string maxLength = 2 minLength = 2	Yes	Refer to <StatusCodes> Object.

4.20 <TrackingEvent> Object

A collection of <TrackingEvent> objects is returned from the TrackShipment web method in the <TrackShipmentResponse> object. Each <TrackingEvent> object represents one time a package was scanned by the USPS.

<TrackingEvent>			
Element	Data Type	Required	Description
Timestamp	xsd:datetime	Yes	Date and time of event.
Event	xsd:string	Yes	Short description of event.
TrackingEventType	TrackingEventType (page 118)	Yes	Tracking event type.
City	xsd:string	Yes	City where event occurred.
State	xsd:string	Yes	State where event occurred.
Zip	xsd:string	Yes	ZIP code where event occurred.
Country	xsd:string	Yes	Country where event occurred.
SignedBy	xsd:string	Yes	If event is a signature event, name of signer.
AuthorizedAgent	xsd:boolean	Yes	

5 Enumeration Types

Several elements that are passed to and from the SWS server are restricted to a list of possible values. This section documents these types and their possible values.

5.1 AccountType

The following are valid values for `AccountType` in the `<RegisterAccount>` object (page 56).

AccountType	
Value	Description
Individual	Personal / Individual
HomeOffice	Home Office
HomeBasedBusiness	Home-based Business
OfficeBasedBusiness	Office-based Business

5.2 AchAccountType

The following are valid values for `AchAccountType` in the `<AchAccount>` object (page 89).

AchAccountType	
Value	Description
Checking	Checking account
Savings	Savings account

5.3 AddOnType

The following are valid values for `AddOnType` in the `<AddOn>` object (page 89).

AddOnType			
Value	Provider	Display Name	Description
SC-A-HP	Stamps.com	Hidden Postage	Specifying Hidden Postage will generate a shipping label indicium that does not show the actual postage amount. This option is useful for customers who wish to hide the actual postage amount from the recipients of packages.

SC-A-INS	Stamps.com	Insurance	Stamps.com insurance add-on. Similar to USPS only lower cost and less paperwork.
SC-A-INSRM	Stamps.com	Insurance for Registered Mail	Stamps.com insurance add-on for use with USPS Registered Mail. Currently unsupported.
US-A-CM	USPS	Certified Mail	USPS Certified Mail.
US-A-COD	USPS	Collect on Delivery	USPS Collect on Delivery.
US-A-COM	USPS	Certificate of Mailing	USPS Certificate of Mailing.
US-A-DC	USPS	USPS Delivery Confirmation	Include Delivery Confirmation service. Charges may apply.
US-A-ESH	USPS	USPS Express – Sunday / Holiday Guaranteed	Guaranteed Priority Mail Express delivery on a Sunday or holiday, incurring an additional fee.
US-A-INS	USPS	USPS Insurance	USPS Insurance.
US-A-NDW	USPS	USPS Express – No Delivery on Saturdays	Instruct the USPS not to attempt Priority Mail Express delivery on a Saturday (formerly weekend) when a business may be closed.
US-A-RD	USPS	Restricted Delivery	USPS Restricted Delivery (delivery to specifically named person only).
US-A-REG	USPS	Registered Mail	USPS Registered Mail.
US-A-RR	USPS	Return Receipt Requested	USPS Return Receipt Requested.
US-A-RRM	USPS	Return Receipt for Merchandise	USPS Return Receipt for Merchandise.
US-A-SC	USPS	USPS Signature Confirmation	Include Signature Confirmation service.
US-A-SH	USPS	Special Handling	USPS surcharge for shipping "special handling" items.
US-A-WDS	USPS	USPS Express – Waive Delivery Signature	Priority Mail Express item can be delivered without obtaining a signature. This AddOn is deprecated from SwsimV26 onwards.
US-A-SR	USPS	USPS Express – Signature Required	Priority Mail Express item can be delivered only after obtaining a signature. This AddOn is available from SwsimV26 onwards.
US-A-NDW	USPS	Do not Deliver on Saturday	Priority Mail Express item cannot be delivered on Saturdays.
US-A-ESH	USPS	Sunday/Holiday Delivery Guaranteed	Priority Mail Express item will be delivered on Sunday or Holiday.
US-A-NND	USPS	Notice of non-	USPS notice of non-delivery.

		delivery.	
US-A-RRE	USPS	Electronic Return Receipt	Electronic Return Receipt (ERR) is a USPS Extra Service that includes Signature proof of delivery.

5.4 CarrierPickupLocation

The following values are for <CarrierPickup> object (page 57).

CarrierPickupLocation	
Value	Description
FrontDoor	Packages are at front door.
BackDoor	Packages are at back door.
SideDoor	Packages are at side door.
KnockOnDoorOrRingBell	Carrier needs to knock on door or ring bell to get the packages.
MailRoom	Packages are in mail room.
Office	Packages are in office.
Reception	Packages are at reception area.
InOrAtMailbox	Packages are in mail box.
Other	Packages are at the location other than above places. SpecialInstruction must be provided.

5.5 CodewordType

The following are valid values for Codeword1Type and Codeword2Type in the <RegisterAccount> object (page 56).

CodewordType	
Value	Description
MothersMaidenName	What is your mother's maiden name?
PetsName	What is your pet's name?
BirthCity	What is your city of birth?
Last4SocialSecurityNumber	Last 4 digits of your Social Security #.
Last4DriversLicense	Last 4 digits of your driver's license #.

5.6 ContentType

The following are valid values for ContentType in the <Customs> object (page 96).

ContentType	
Value	Description
Commercial Sample	Commercial sample.
Gift	Gift.
Document	Document.
Returned Goods	Returned goods.
Other	Other.
Merchandise	Merchandise
Humanitarian Donation	Humanitarian Donation
Dangerous Goods	Dangerous Goods

5.7 CreditCardType

The following are valid values for CreditCardType in the <CreditCard> object (page 89).

CreditCardType	
Value	Description
Visa	Visa
MasterCard	MasterCard
AmericanExpress	American Express
Discover	Discover

5.8 EltronPrinterDPIType

The following are valid values for EltronPrinterDPIType in the <CreateIndicium> object (page 62).

EltronPrinterDPIType	
Value	Description
Default	Default resolution

High	High resolution
------	-----------------

5.9 ImageType

The following are valid values for ImageType in the <CreateIndicium> object (page 62).

ImageType	
Value	Description
Auto	Default format; PNG for domestic, PDF for international
EncryptedPngUrl	Reserved for future use.
Epl	EPL printer
Gif	GIF format
Jpg	JPEG format
Pdf	PDF format
PrintOncePdf	Reserved for future use.
Png	PNG format
Zpl	ZPL printer

5.10 PackageType

The following are valid values for PackageType in the <Rate> object (page 88).

PackageType	
Value	Description
Unknown	Unknown. Do not use.
Postcard	Postcard. Enabled on request.
Letter	Letter. Enabled on request.
Large Envelope or Flat	Large envelope or flat. Has one dimension that is between 11 ½" and 15" long, 6 1/8" and 12" high, or ¼" and ¾ thick.
Thick Envelope	Thick envelope. Envelopes or flats greater than ¾" at the thickest point.
Package	Package. Longest side plus the distance around the thickest part is less than or equal to 84"

Flat Rate Box	USPS flat rate box. A special 11" x 8 1/2" x 5 1/2" or 14" x 3.5" x 12" USPS box that clearly indicates "Flat Rate Box".
Small Flat Rate Box	USPS small flat rate box. A special 8-5/8" x 5-3/8" x 1-5/8" USPS box that clearly indicates "Small Flat Rate Box".
Large Flat Rate Box	USPS large flat rate box. A special 12" x 12" x 6" USPS box that clearly indicates "Large Flat Rate Box".
Flat Rate Envelope	USPS flat rate envelope. A special cardboard envelope provided by the USPS that clearly indicates "Flat Rate".
Flat Rate Padded Envelope	USPS flat rate padded envelope.
Large Package	Large package. Longest side plus the distance around the thickest part is over 84" and less than or equal to 108".
Oversized Package	Oversized package. Longest side plus the distance around the thickest part is over 108" and less than or equal to 130".
Regional Rate Box A	USPS regional rate box A. A special 10 15/16" x 2 3/8" x 12 13/16" or 10" x 7" x 4 3/4" USPS box that clearly indicates "Regional Rate Box A". 15 lbs maximum weight.
Regional Rate Box B	USPS regional rate box B. A special 14 3/8" x 2 2/8" x 15 7/8" or 12" x 10 1/4" x 5" USPS box that clearly indicates "Regional Rate Box B". 20 lbs maximum weight.
Regional Rate Box C	USPS regional rate box C. A special 15" x 12" x 12" USPS box that clearly indicates "Regional Rate Box C". 25 lbs maximum weight.
Legal Flat Rate Envelope	USPS-supplied Priority Mail flat-rate envelope 9 1/2" x 15". Maximum weight 4 pounds.

5.11 PurchaseStatus

The following are valid values for `PurchaseStatus` in the `<GetPurchaseStatusResponse>` object (page 75) and `<PurchasePostageResponse>` object (page 79).

PurchaseStatus	
Value	Description
Success	Purchase successfully completed.
Pending	Purchase is pending; payment has not yet started processing.
Processing	Purchase is pending; payment is currently being processed.
Rejected	Purchase was rejected. See the <code>RejectedReason</code> string for details.

5.12 RegistrationStatus

The following are valid values for `RegistrationStatus` in `RegisterAccountResponse` object (page 81).

RegistrationStatus	
Value	Description
Success	Registration successfully completed.
Fail	Registration failed because user name has been taken. A suggested user name is returned.

5.13 ServiceType

The following are valid values for `ServiceType` in the `<Rate>` object (page 99).

ServiceType	
Value	Description
US-FC	USPS First-Class Mail
US-MM	USPS Media Mail
US-PP	USPS Parcel Post
US-PM	USPS Priority Mail
US-XM	USPS Priority Mail Express
US-EMI	USPS Priority Mail Express International
US-PMI	USPS Priority Mail International
US-FCI	USPS First Class Mail International
US-CM	USPS Critical Mail
US-PS	USPS Parcel Select
US-LM	USPS Library Mail

5.14 TrackingEventType

The following are valid values for `TrackingEventType` in the `<TrackingEvent>` object (page 110).

TrackingEventType	
Value	Description
None	None.

ManifestAcknowledgement	Manifest acknowledgement.
ElectronicNotification	Electronic notification.
Delivered	Delivered.
AttemptedNoticeLeft	Attempted delivery. Notice left.
AcceptOrPickup	Accept or pickup.
Refused	Refused.
Undeliverable	Undeliverable.
Forwarded	Forwarded.
ArrivalAtUnit	Arrival at unit.
Missent	Missent.
ReturnToSender	Return to sender.
Enroute	Enroute.
DeadLetter	Dead letter.
ArrivalAtPickupPoint	Arrival at pickup point.
NoSuchNumber	No such number.
InsufficientAddress	Insufficient address.
MovedNoForwarding.	Moved. No forwarding address.
ForwardingExpired	Forwarding expired.
AddresseeUnknown	Addressee unknown.
Vacant	Vacant.
Unclaimed	Unclaimed.
Deceased	Deceased.
ReturnedOtherReason	Returned for other reason.
PickedUpByShippingPartner	Picked up by shipping partner.
ArrivedAtShippingPartner	Arrived at shipping partner.
DepartedFromShippingPartner	Departed from shipping partner.
UnrecognizedEvent	Unrecognized event.
ErrorDateNotAvailable	Error. Date not available.

5.15 URLType

The following are valid values for `UrlType` in the `<GetURL>` object (page 77).

URLType	
Value	Description
HomePage	Home page.
AccountSettingsPage	Account settings page.
EditCostCodesPage	Edit Cost Codes page.
OnlineReportsPage	Online Reports page.
HelpPage	Help page.
OnlineReportingHistory	Search Print page.
OnlineReportingRefund	Refund page.
OnlineReportingPickup	USPS Pick-Up page.
OnlineReportingSCAN	SCAN Manifest page.
OnlineReportingClaim	File Claim page.
StoreChangePlan	Change Billing Plan page.
WebClientHome	Web postage printing.
ReportsBalances	Balances report.
ReportsExpenses	Expenses report.
ReportsPrints	Prints report.
StoreBuyPostage	Buy postage.
StoreMeters	Meter list (for enterprise accounts only).
StoreUsers	Use list (for multi-user accounts only).
StorePaymentMethods	Payment methods.
StoreCorpContactInfo	Corporate contact information.
StoreMeterUsers	Meter user list (for enterprise accounts only).
StoreMeterSettings	Meter settings.
StoreMeterAddress	Meter address.
StoreShippingAddresses	Shipping address.
StoreReferAFriend	Refer-a-friend.
StoreAccountCredit	Account credit.
StoreReorder	Re-order.
StoreMyProfile	User profile.

StorePassword	Change password.
StoreCommPreferences	Communication preferences.
StoreNetStampsLabels	Purchase NetStamps labels.
StoreShippingLabels	Purchase shipping labels.
StoreMailingLabels	Purchase mailing labels.
StoreScalesAndPrinters	Purchase scales and printers.
StoreFreeUSPSSupplies	Order free USPS supplies.
StoreBubbleMailers	Purchase bubble mailers.
StoreShippingSupplies	Purchase shipping supplies.
StoreScales	Purchase scales.
StoreAveryNetStampsLabels	Purchase Avery NetStamps labels.
StoreAveryMailingLabels	Purchase Avery mailing labels.
StoreMeterContactInfo	Meter contact information.
StoreEditMeterAddress	Edit meter address.
StoreHome	Online store home page.
StoreAccount	Account information.
StoreCostCode	Cost codes.
StoreHistory	History.
StoreFaq	FAQ
StoreCustomerHome	Customer home page.
StoreGetAccountInfoJSo	This value is not intended to be used by integrators.
StoreSetAccountInfoJSo	This value is not intended to be used by integrators.
StoreUserCategories	This value is not intended to be used by integrators.
StoreCategory	This value is not intended to be used by integrators.
StoreUpdatePaymentMethodResubmit	This value is not intended to be used by integrators.
StoreDefaultPaymentMethods	This value is not intended to be used by integrators.
StoreSignOut	This value is not intended to be used by integrators.

5.16 ResidentialDeliveryIndicatorType

The following are valid values for ResidentialDeliveryIndicator in the <CleanseAddressResponse> object (page 59).

ResidentialDeliveryIndicatorType	
Value	Description
Yes	The address is a residential address. AddressMatch would be true in this case.
No	The address is a business address. AddressMatch would be true in this case.
Unknown	The address type could not be determined. AddressMatch would be false in this case.
Unsupported	The current integration does not support querying this data.

5.17 CreateIndiciumMode

The following are valid values for CreateIndiciumMode in the <CreateEnvelopeIndicium> object (page 59).

CreateIndiciumMode	
Value	Description
Normal	A regular envelope print with a valid indicium.
Sample	A regular envelope print with a sample indicium with a 'VOID' watermark and a VOID watermark in the middle of the image.
NoPostage	Similar to 'Sample'. No indicium on image. No 'VOID' watermark anywhere. This is essentially provides addresses printing on envelope without any postage.
Preview	Similar to 'Sample' but no 'VOID' watermark in the middle of the image. The 'VOID' watermark on indicium still exists.

5.18 NonDeliveryOption

The following are valid values for NonDeliveryOption in the <CreateIndicium> object (page 62) to specify what text should be printed in the 'Non delivery instructions' section of a CP 72 customs form.

NonDeliveryOption	
Value	Description
Undefined	'Non delivery instructions' section is left blank.
Return	'Return to sender' is printed in the 'Non delivery instructions' section.
Abandon	'Treat as Abandoned' is printed in the 'Non delivery instructions' section.

Redirect	The address specified in RedirectTo is printed in the 'Non delivery instructions' section.
----------	--

6 SOAP Faults

Errors from the SWS API are returned in a SOAP fault (http://www.w3.org/TR/soap11/#_Toc478383507). The fault will contain a short description of the fault in the <faultstring> element that can be displayed to the user if desired. The fault will also contain a hexadecimal error code in the <detail>/<sdccerror> element that can be used to programmatically process the fault. The <detail>/<sdccerror> element will contain a code attribute with the hexadecimal error code. The contents of the <detail>/<sdccerror> element may contain additional information about the error.

Because an error may occur after the authenticator for a conversation has been updated, the integration should look in the <detail>/<authenticator> element for a new authenticator when a SOAP fault is returned. This new authenticator should be used in the next request to the server.

The commonly expected errors for each of the web methods are documented along with web methods in section 2 on page 8.

An integration must be prepared to receive unexpected errors at any time. A complete list of error codes is included in Appendix C on page 130. An integration need not include special handling for all of these errors. If an unexpected error occurs, the integration may just display the description from the <faultstring> element.

6.1 Example

In this example, an attempt to authenticate a user has failed due to an incorrect password.

Response:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <soap:Fault>
      <faultcode>soap:Server</faultcode>
      <faultstring>Authentication failed. [0x002b0601]</faultstring>
      <faultactor>https://swsim.testing.stamps.com/swsim/swsim-
v1.asmx</faultactor>
      <detail>
        <sdccerror code="002b0601"
xmlns="http://stamps.com/xml/namespace/2008/01/swsim/fault">Authentication
failed.</sdccerror>
      </detail>
    </soap:Fault>
  </soap:Body>
</soap:Envelope>
```

7 Appendix A – SOAP 1.1

The Stamps.com Web Services are implemented as document/literal style SOAP 1.1 web services using HTTPS as the transport. For more information about SOAP 1.1, please see <http://www.w3.org/TR/2000/NOTE-SOAP-20000508/>. The interface to the web services is published in the form of a Web Services Description Language (WSDL) document. For more information about WSDL, please see <http://www.w3.org/TR/wsdl>. This appendix provides a simple overview of SOAP 1.1 and WSDL as used in SWS with recommendations on implementing client software.

In the following discussion, SOAP should be read to mean SOAP 1.1, and not its successor, SOAP 1.2, which has not been adopted by SWS. SWS uses HTTPS as the transport mechanism. With the exception of the SSL encryption provided by HTTPS, the protocol is identical to that of HTTP, and any references to SOAP over HTTP apply equally to SOAP over HTTPS.

7.1 SOAP

<http://www.w3.org/TR/2000/NOTE-SOAP-20000508/>

SOAP provides a simple, common, and well-understood method of exchanging structured and typed messages between computers using XML. SOAP itself does not define any of the semantics of a particular application, such as SWS, but instead provides the mechanism for expressing these semantics. SWS applies the semantics that turn these simple messages into requests from clients and responses from web services.

As an open protocol published by the World Wide Web Consortium (<http://www.w3.org>), extensive support is available in a variety of programming languages and frameworks. Developers of SWS client applications are free to choose from among any one of these or even to roll their own implementation.

7.1.1 SOAP Envelope

A SOAP message is an XML document that consists of a mandatory SOAP Envelope, an optional SOAP Header, and a mandatory SOAP Body. The Envelope is the required root element of the XML document containing the SOAP message. The element name is "Envelope" and the XML namespace is "http://schemas.xmlsoap.org/soap/envelope/".

SWS requires this element in all requests and responses.

Example:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  ...
</soap:Envelope>
```

7.1.2 SOAP Header

The SOAP Header provides a flexible mechanism for extending messages without prior knowledge between the communicating parties. Examples of extensions that can be implemented as header entries are authentication, transaction management, etc. The element name is "Header" and the XML namespace is "http://schemas.xmlsoap.org/soap/envelope/".

SWS does not use the SOAP Header and it may be omitted. The examples in this document do not use the Header element.

Example:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header>
```

```

    ...
  </soap:Header>
  ...
</soap:Envelope>

```

7.1.3 SOAP Body

The SOAP Body serves as a containing element for the message itself. The application using SOAP will define the structure of the children of the Body element. SOAP defines only one potential Body entry, the SOAP Fault described below. The element name is "Body" and the XML namespace is "http://schemas.xmlsoap.org/soap/envelope/".

All of the primary data objects defined by SWS are valid children of the Body element and represent the request from a client or a response from the web service method.

Example:

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    ...
  </soap:Body>
  ...
</soap:Envelope>

```

7.1.4 SOAP Fault

The SOAP Fault element is used to carry error information within a SOAP message. If present, the SOAP Fault must appear as a child of the Body element and must not appear more than once. The element name is "Fault" and the XML namespace is "http://schemas.xmlsoap.org/soap/envelope/".

The SOAP Fault element defines the following four children. These child elements do not use an XML namespace.

- **<faultcode>** - The faultcode element is intended to be used by software to provide an algorithmic mechanism for identifying the fault. SOAP defines a small set of faultcode values.
- **<faultstring>** - The faultstring element is intended to provide a human readable explanation of the fault and is not intended for algorithmic processing.
- **<faultactor>** - The faultactor element is intended to provide information about the entity that caused the fault. With SOAP over HTTP, this is typically the URL of the endpoint that processed the message.
- **<detail>** - The detail element is provided as a parent element for application defined child elements that extend the fault with application specific information.

SWS uses the SOAP Fault whenever a request from a client cannot be successfully processed. SWS uses the <detail> child of the Fault to communicate SWS specific error codes as described in section 5.16 on page 121.

Example:

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <soap:Fault>
      <faultcode>soap:Server</faultcode>
      <faultstring>Authentication failed. [0x002b0601]</faultstring>
    </soap:Fault>
  </soap:Body>
</soap:Envelope>

```

```
<faultactor>https://swsim.testing.stamps.com/swsim/swsim-  
v1.asmx</faultactor>  
<detail>  
  <sdcerror code="002b0601"  
xmlns="http://stamps.com/xml/namespace/2008/01/swsim/fault">Authentication  
failed.</sdcerror>  
</detail>  
</soap:Fault>  
</soap:Body>  
</soap:Envelope>
```

7.1.5 SOAP over HTTP

Although SOAP can be used with any HTTP request method, SWS only defines a binding for HTTP POST requests. An HTTP POST request with a SOAP message must include a SOAPAction HTTP header that indicates the intent of the SOAP HTTP request. SWS uses this SOAPAction header to identify the action being requested. Each of the primary request objects described earlier in this document has a value defined for the SOAPAction HTTP header.

SOAP over HTTP follows the semantics of the HTTP Status codes for communicating status information. For example a 2xx status code indicates that the request was successfully processed. SOAP does not require a SOAP message in the response, but SWS will provide a primary response object when the HTTP status is 2xx.

In case of a SOAP error while processing the request, the server will return an HTTP 500 "Internal Server Error" response and include a SOAP message in the response that contains a SOAP Fault. SWS follows this requirement and all SOAP Faults will be reported to the client via an HTTP 500 status.

7.2 WSDL

<http://www.w3.org/TR/wsdl>

WSDL (Web Services Description Language) is an XML format for describing web services as a set of endpoints operating on messages. With a WSDL document describing a set of web services, one can create a client of those web services, often using an automated tool for doing so.

A WSDL document defines a service using six major elements. The details of the elements are beyond the scope of this document but can be found at the above link.

- Types – provides the data type definitions used to describe the messages, usually an XML Schema.
- Message – a definition of the data being transmitted. A message consists of logical parts, each of which corresponds to a defined type.
- Port Type – a set of abstract operations. Each operation refers to an input message and an output message.
- Binding – specifies concrete protocol and data format specifications (e.g., SOAP over HTTP POST)
- Port – an address for a binding, defining a single communication endpoint.
- Service – aggregation of a set of ports.

Stamps.com provides a WSDL document to SWS client developers. This WSDL should be considered the normative definition of the SWS services, and any discrepancy between this document and the WSDL should be resolved in favor of the WSDL.

7.2.1 Document/literal Binding

There are two primary styles for SOAP web services: RPC/encoded and document/literal. RPC/encoded has the advantage of making for simple WSDL documents, but lacks flexibility and is cumbersome for creating messages as every element must have associated type information in the message.

Document/literal makes for a more complicated WSDL document with a complete XML Schema embedded within it, but gives more flexibility to the types of messages that can be transmitted and validated.

SWS uses a document/literal binding for its SOAP web services. The primary request and response objects are all documented in the schema portion of the WSDL.

7.3 Tools

There are a large number of SOAP toolkits available in a variety of languages and development frameworks. A list can be found at <http://www.soapware.org/directory/4/implementations>.

Stamps.com has used the following toolkits to access SOAP 1.1 web services:

- Microsoft .NET Framework – available to all .NET languages (VB, C#, C++/CLI, etc.)
- ATL SProxy – Microsoft toolkit for C++ applications
- Apache Axis - Java

Stamps.com recommends using a toolkit that can generate client-side code for SWS from its WSDL document. This will reduce errors in implementing the necessary SOAP protocol and simplify integration into client applications.

Creating a client by forming correct HTTP POST requests and interpreting the HTTP responses is allowed, but may increase client development effort significantly. Be sure to understand SOAP and WSDL as described above and at the following links when creating a client by hand.

-
- <http://www.w3.org/TR/wsdl>

8 Appendix B – SWS WSDL

The latest version of the WSDL for the SWS API is available to integrators who are licensed to use SWS at <https://swsim.stamps.com/swsim/swsimv29.asmx?wsdl>.

9 Appendix C – Error Codes

The following is a complete list of error codes that might be generated by the SWS system. Most of these represent conditions that cannot be corrected by or accounted for by the integration. Refer to the descriptions of the individual web methods on page 8 for the commonly experienced error codes. If one of these uncommon errors occurs, the integration should probably just display the contents of the <faultstring> element to the user and allow them to retry the operation.

Error Codes			
Hex	Dec	Name	Description
0x90000	589824	image_download_failed	(No description.)
0x90001	589825	is_payment_method_ach_failed	(No description.)
0x90101	590081	no_such_control	(No description.)
0x90102	590082	control_is_wrong_type	(No description.)
0x90103	590083	printing_model_not_supported	(No description.)
0x90104	590084	control_bound_value_is_wrong_type	(No description.)
0x110200	1114624	no_server_registry_entry	(No description.)
0x110201	1114625	invalid_response_data	(No description.)
0x120001	1179649	missing_required_value	(No description.)
0x120002	1179650	invalid_data_size	(No description.)
0x120003	1179651	bad_pointer	(No description.)
0x130001	1245185	emeter_pool_unavailable_topic	(No description.)
0x130002	1245186	emeter_unavailable_topic	(No description.)
0x160101	1442049	invalid_meter_number_topic	(No description.)
0x160102	1442050	meter_in_use_topic	(No description.)
0x160103	1442051	no_available_meters_topic	(No description.)
0x160104	1442052	meter_not_locked_topic	(No description.)
0x160105	1442053	invalid_serial_number_topic	(No description.)
0x160106	1442054	unexpected_response_item_topic	(No description.)
0x16010C	1442060	postage_replay_topic	(No description.)
0x16010D	1442061	maximum_meter_count_exceeded_topic	(No description.)
0x160111	1442065	insufficient_funds_topic	(No description.)
0x160207	1442311	invalid_key_type_topic	(No description.)
0x160208	1442312	invalid_indicium_data_topic	(No description.)
0x160212	1442322	invalid_reset_amount_topic	(No description.)
0x160308	1442568	invalid_indicium_result_topic	(No description.)
0x160309	1442569	reset_amount_mismatch_topic	(No description.)
0x16030A	1442570	emeter_message_formatting_failed_topic	(No description.)
0x16040B	1442827	authentication_failed_topic	(No description.)
0x16040E	1442830	emeter_general_failure_topic	(No description.)
0x16040F	1442831	meter_balance_exceeded_topic	(No description.)
0x160410	1442832	invalid_emeter_response_topic	(No description.)
0x1D0100	1900800	unexpected_response_item_topic	(No description.)

0x1D0101	1900801	batch_invalid_type_id_topic	(No description.)
0x1D0102	1900802	batch_invalid_end_date_topic	(No description.)
0x1D0103	1900803	batch_no_new_work_topic	(No description.)
0x1D0104	1900804	batch_invalid_state_transition_topic	(No description.)
0x1D0105	1900805	batch_end_date_not_yet_reached_topic	(No description.)
0x1D0206	1901062	db_connection_configuration_missing_topi c	(No description.)
0x1E0100	1966336	unexpected_response_item_topic	(No description.)
0x1E0101	1966337	batch_invalid_type_id_topic	(No description.)
0x1E0102	1966338	batch_invalid_end_date_topic	(No description.)
0x1E0103	1966339	batch_no_new_work_topic	(No description.)
0x1E0104	1966340	batch_invalid_state_transition_topic	(No description.)
0x1E0105	1966341	batch_end_date_not_yet_reached_topic	(No description.)
0x1E0206	1966598	db_connection_configuration_missing_topi c	(No description.)
0x1F0100	2031872	unexpected_response_item_topic	(No description.)
0x1F0101	2031873	batch_invalid_type_id_topic	(No description.)
0x1F0102	2031874	batch_invalid_end_date_topic	(No description.)
0x1F0103	2031875	batch_no_new_work_topic	(No description.)
0x1F0104	2031876	batch_invalid_state_transition_topic	(No description.)
0x1F0105	2031877	batch_end_date_not_yet_reached_topic	(No description.)
0x1F0206	2032134	db_connection_configuration_missing_topi c	(No description.)
0x1F0307	2032391	out_of_memory_topic	(No description.)
0x1F0308	2032392	xml_api_error_topic	(No description.)
0x230101	2294017	not_initialized	(No description.)
0x230102	2294018	already_initialized	(No description.)
0x230103	2294019	initialization_failed_no_localization	(No description.)
0x230104	2294020	initialization_failed_no_schema	(No description.)
0x230105	2294021	invalid_persistence_form	(No description.)
0x280101	2621697	external_hresult	(No description.)
0x280102	2621698	cannot_load_provider	(No description.)
0x280103	2621699	cannot_create_session	(No description.)
0x280104	2621700	invalid_retry_value	(No description.)
0x280105	2621701	timeout	(No description.)
0x280106	2621702	invalid_url	(No description.)
0x280107	2621703	canceled	(No description.)
0x280108	2621704	out_of_handles	(No description.)
0x280109	2621705	internal_error	(No description.)
0x28010A	2621706	unrecognized_scheme	(No description.)
0x28010B	2621707	name_not_resolved	(No description.)
0x28010C	2621708	protocol_not_found	(No description.)
0x28010D	2621709	invalid_option	(No description.)
0x28010E	2621710	bad_option_length	(No description.)

0x28010F	2621711	option_not_settable	(No description.)
0x280110	2621712	shutdown	(No description.)
0x280111	2621713	incorrect_user_name	(No description.)
0x280112	2621714	incorrect_password	(No description.)
0x280113	2621715	login_failure	(No description.)
0x280114	2621716	invalid_operation	(No description.)
0x280115	2621717	incorrect_handle_type	(No description.)
0x280116	2621718	incorrect_handle_state	(No description.)
0x280117	2621719	not_proxy_request	(No description.)
0x280118	2621720	registry_value_not_found	(No description.)
0x280119	2621721	bad_registry_parameter	(No description.)
0x28011A	2621722	no_direct_access	(No description.)
0x28011B	2621723	no_context	(No description.)
0x28011C	2621724	no_callback	(No description.)
0x28011D	2621725	incorect_format	(No description.)
0x28011E	2621726	item_not_found	(No description.)
0x28011F	2621727	cannot_connect	(No description.)
0x280120	2621728	connection_aborted	(No description.)
0x280121	2621729	connection_reset	(No description.)
0x280122	2621730	force_retry	(No description.)
0x280123	2621731	ivalid_proxy_request	(No description.)
0x280124	2621732	need_ui	(No description.)
0x280125	2621733	handle_exists	(No description.)
0x280126	2621734	sec_cert_date_invalid	(No description.)
0x280127	2621735	sec_cert_cn_invalid	(No description.)
0x280128	2621736	http_to_https_on_redir	(No description.)
0x280129	2621737	https_to_http_on_redir	(No description.)
0x28012A	2621738	mixed_security	(No description.)
0x28012B	2621739	chg_post_is_non_secure	(No description.)
0x28012C	2621740	post_is_non_secure	(No description.)
0x28012D	2621741	client_auth_cert_needed	(No description.)
0x28012E	2621742	invalid_ca	(No description.)
0x28012F	2621743	client_auth_not_setup	(No description.)
0x280130	2621744	async_thread_failed	(No description.)
0x280131	2621745	redirect_scheme_change	(No description.)
0x280132	2621746	dialog_pending	(No description.)
0x280133	2621747	retry_dialog	(No description.)
0x280134	2621748	http_http_submit_redir	(No description.)
0x280135	2621749	insert_cdrom	(No description.)
0x280136	2621750	fortezza_login_needed	(No description.)
0x280137	2621751	sec_cert_errors	(No description.)
0x280138	2621752	sec_cert_no_rev	(No description.)
0x280139	2621753	sec_cert_rev_failed	(No description.)
0x28013A	2621754	header_not_found	(No description.)

0x28013B	2621755	downlevel_server	(No description.)
0x28013C	2621756	invalid_server_response	(No description.)
0x28013D	2621757	invalid_header	(No description.)
0x28013E	2621758	invalid_query_request	(No description.)
0x28013F	2621759	header_already_exists	(No description.)
0x280140	2621760	redirect_failed	(No description.)
0x280141	2621761	not_redirected	(No description.)
0x280142	2621762	cookie_needs_confirmation	(No description.)
0x280143	2621763	cookie_declined	(No description.)
0x280144	2621764	redirect_needs_confirmation	(No description.)
0x280145	2621765	security_channel_error	(No description.)
0x280146	2621766	unable_to_cache_file	(No description.)
0x280147	2621767	tcpip_not_installed	(No description.)
0x280148	2621768	disconnected	(No description.)
0x280149	2621769	server_unreachable	(No description.)
0x28014A	2621770	proxy_server_unreachable	(No description.)
0x28014B	2621771	bad_auto_proxy_script	(No description.)
0x28014C	2621772	unable_to_download_script	(No description.)
0x28014D	2621773	sec_invalid_cert	(No description.)
0x28014E	2621774	sec_cert_revoked	(No description.)
0x28014F	2621775	failed_deu_to_security_check	(No description.)
0x280150	2621776	not_initilized	(No description.)
0x280151	2621777	need_msn_ssapi_pkg	(No description.)
0x280152	2621778	login_failure_display_entity_body	(No description.)
0x280153	2621779	extended_error	(No description.)
0x280154	2621780	error_reading_data	(No description.)
0x280155	2621781	http_status_continue	(No description.)
0x280156	2621782	http_status_proxy_required	(No description.)
0x280157	2621783	http_status_service_unavailable	(No description.)
0x280158	2621784	http_status_not_modified	(No description.)
0x280159	2621785	http_status_not_ok	(No description.)
0x28015A	2621786	connection_error	(No description.)
0x28015B	2621787	resend_request	(No description.)
0x28015C	2621788	cannot_call_before_open	(No description.)
0x28015D	2621789	cannot_call_before_send	(No description.)
0x28015E	2621790	cannot_call_after_send	(No description.)
0x28015F	2621791	cannot_call_after_open	(No description.)
0x280160	2621792	proxy_service_error	(No description.)
0x280161	2621793	secure_wrong_usage	(No description.)
0x280162	2621794	autodetection_failed	(No description.)
0x280163	2621795	too_many_headers	(No description.)
0x280164	2621796	header_too_big	(No description.)
0x280165	2621797	response_drain_overflow	(No description.)
0x280166	2621798	http_status_internal_error	(No description.)

0x2B0101	2818305	no_repository	(No description.)
0x2B0102	2818306	missing_required_value	(No description.)
0x2B0103	2818307	configuration_crypto_failure	(No description.)
0x2B0201	2818561	invalid_authenticator	(No description.)
0x2B0202	2818562	expired_authenticator	(No description.)
0x2B0203	2818563	invalid_conversation_token	(No description.)
0x2B0204	2818564	conversation_out_of_sync	(No description.)
0x2B0205	2818565	authenticator_crypto_failure	(No description.)
0x2B0206	2818566	user_not_linked_to_store	(No description.)
0x2B0207	2818567	invalid_integration_id	(No description.)
0x2B0208	2818568	invalid_integration_caps	(No description.)
0x2B0209	2818569	invalid_reseller_account	(No description.)
0x2B0401	2819073	password_too_long	Password input was longer than maximum password length.
0x2B0402	2819074	password_too_short	Password input was shorter than minimum password length.
0x2B0403	2819075	password_no_alpha	(No description.)
0x2B0404	2819076	password_no_digit	(No description.)
0x2B0405	2819077	password_invalid	(No description.)
0x2B0406	2819078	password_repeated	(No description.)
0x2B0501	2819329	not_in_password_reset	(No description.)
0x2B0502	2819330	invalid_codewords	(No description.)
0x2B0601	2819585	authentication_failed	(No description.)
0x2B0602	2819586	insufficient_client_version	The account requires a newer client.
0x2B0603	2819587	user_not_linked_to_postal	The account is not linked to postal.
0x2B0604	2819588	invalid_corporate_meter	Invalid Corporate Meter.
0x2B0605	2819589	account_in_password_reset	(No description.)
0x2B0701	2819841	account_in_use	(No description.)
0x2B0801	2820097	create_store_profile_failure	(No description.)
0x2B0802	2820098	create_payment_method_failure	(No description.)
0x2B0803	2820099	bridge_registration	(No description.)
0x2B0804	2820100	plan_subscription_failure	(No description.)
0x2B0805	2820101	bridge_registration_timeout	(No description.)
0x2B0806	2820102	bridge_registration_internal_error	(No description.)
0x2B0807	2820103	too_many_users	(No description.)
0x2B0901	2820353	timed_out	(No description.)
0x2B0A01	2820609	exceeded_per_print_limit	(No description.)
0x2B0A02	2820610	reference_code_required	(No description.)
0x2B0A03	2820611	user_access_denied	(No description.)
0x2B0A04	2820612	login_not_permitted	(No description.)
0x2B0A05	2820613	admin_login_not_permitted	(No description.)

0x2B0A06	2820614	manage_users_required	(No description.)
0x2B0A07	2820615	web_based_reports_required	(No description.)
0x2B0A08	2820616	cannot_remove_last_admin	(No description.)
0x2B0A09	2820617	reseller_account_not_supported	(No description.)
0x2B0B01	2820865	user_already_activated	(No description.)
0x2B0B02	2820866	user_not_found	(No description.)
0x2B0B03	2820867	user_is_inactive	(No description.)
0x2B0B04	2820868	invalid_activation_code	(No description.)
0x2B0C01	2821121	invalid_mail_class	Specified mail class is incompatible with specified rate category.
0x2B0C02	2821122	invalid_num_indicia	Number of indicia requested must be greater than 0.
0x2B0C03	2821123	list_length_mismatch	Number of elements in a list parameter is incorrect.
0x2B0C04	2821124	invalid_customer_id	Specified customer id does not exist.
0x2B0C05	2821125	invalid_label_layout	The contents do not fit in a shipping label.
0x2B0C06	2821126	invalid_store_profile_id	Invalid store profile id.
0x2B0C07	2821127	not_a_reseller_account	Account is not a reseller account.
0x2B0D01	2821377	no_admin_users_on_initial_meter	There are no users with admin rights on this meter.
0x2B0D02	2821378	corporation_already_exists	A corporation with this name already exists.
0x2B0D03	2821379	customer_already_associated_with_corporation	Specified customer is already assigned to a corporation.
0x3A0101	3801345	no_connection_string	Database connection string not properly configured.
0x3A0201	3801601	too_long	Data to serialize exceeds maximum allowed length.
0x3A0202	3801602	unexpected_type	Unexpected data type encountered.
0x3A0301	3801857	invalid_message	Data is not a valid encoded message.
0x3A0401	3802113	hmac_key_not_found	HMAC key not found.
0x3A0402	3802114	message_expired	Message expired.
0x3A0403	3802115	invalid_mac	Invalid MAC.
0x3A0501	3802369	unknown	An unexpected error has occurred.
0x3A0601	3802625	invalid_rotation	Rotation must be one of 0, 90, 180, or 270.
0x3B0101	3866881	no_connection_string	Database connection string not properly configured.
0x3B0201	3867137	invalid_transaction_id	Invalid transaction id.
0x3B0301	3867393	netstamp_expired	Netstamp expired

0x3B0302	3867394	label_expired	Label expired
0x3B0303	3867395	TooManyCustomsLines	Too many customs lines.
0x3E0101	4063489	dynamic_load_failed	A call to LoadLibrary produced a NULL module handle, indicating that the system was unable to load the given DLL.
0x3E0102	4063490	cannot_get_proc_address	A call to GetProcAddress produced a NULL function pointer, indicating that the system was unable to find the function in the given DLL.
0x3E0201	4063745	cannot_open_coclass_key	Tried and failed to open the registry key containing the CLSID hive for a given COM class (e.g., "HKEY_CLASSES_ROOT\CLSID\{00000000-0000-0000-0000-000000000000}").
0x3F0101	4129025	module_not_loaded	An operation tried and failed to access a particular module loaded in the current process.
0x3F0102	4129026	cannot_get_module_file_name	An operation tried and failed to get the path name of a loaded module.
0x410001	4259841	stamps_id_is_absent	A Function that requires the presence of a Stamps ID (e.g., fingerprint::obtain) cannot find one on the computer.
0x410002	4259842	cannot_create_stamps_id	A Function that sets the Stamps ID (e.g., fingerprint::put_stamps_id) cannot cannot write a Stamps ID on the computer.
0x410003	4259843	cannot_find_ethernet_nics	Unable to find any Ethernet adapters when querying the computer's hardware (which the "Client/Computer Fingerprint" library is doing using the Windows API GetAdaptersInfo function as of June of 2007).
0x410004	4259844	cannot_find_system_drive_letter	Unable to acquire a mounted drive letter corresponding to the "system" volume (i.e., where Windows is running from).
0x410005	4259845	cannot_find_serial_number_for_mounted_drive	Unable to find the old-school volume serial number for a mounted drive letter.

0x410006	4259846	cannot_obtain_volume_guid_for_mounted_drive	Unable to obtain the volume GUID for a mounted drive letter.
0x410007	4259847	cannot_extract_guid_from_volume_name	Cannot interpret the GUID value that's supposed to exist between the first pair of left and right curly braces in a volume name of the form "\\?\Volume{#####-####-####-#####}\\".
0x410008	4259848	unexpected_cryptographic_failure	The Stamps ID feature failed unexpectedly on a cryptographic operation related to the Stamps ID HMAC.
0x410009	4259849	cannot_create_guid	The Stamps ID feature failed due to the inability of the Windows API to create a new, random GUID.
0x41000A	4259850	cannot_query_physical_media_serial_numbers	Unable to obtain the manufacturer's serial numbers for physical media devices (hard drives) installed in the user's computer.
0x420001	4325377	api_function_failed	A Windows API function call failed.
0x420002	4325378	cannot_create_thread	The Windows API Extensions package was unable to create a new thread.
0x420003	4325379	null_pointer_argument	A NULL pointer was passed to a Windows API Extensions function that requires a non-NULL pointer argument.
0x420101	4325633	windows_not_on_mounted_drive	The Windows Shell API has returned a path to the Windows directory that doesn't appear to start with a drive letter.
0x420201	4325889	invalid_xpath	An MSXML extension function was passed an XPath that was empty or invalid.
0x420202	4325890	xpath_target_not_found	MSXML couldn't find any nodes at the given XPath relative to the given node.
0x420203	4325891	set_selection_namespaces_failed	An attempt to set the DOM second-level property SelectionNamespaces on an MSXML DOM Document failed, probably due to some problem with the given namespaces

			string.
0x420204	4325892	node_is_not_an_element	A function that requires an element-type MSXML node object was passed a node of some other type.
0x420205	4325893	node_text_invalid	An MSXML extension function was unable to interpret the text contents
0x440101	4456705	get_commitments_failed	The call to the Priority Mail Express Service Commitments Web Service failed.
0x450101	4522241	invalid_data	(No description.)
0x450102	4522242	invalid_argument	(No description.)
0x450103	4522243	rate_desination_country_mismatch	(No description.)
0x450104	4522244	dest_address_cleanse_hash_mismatch	(No description.)
0x450105	4522245	no_sender_name	(No description.)
0x450106	4522246	no_recipient_name	(No description.)
0x450107	4522247	invalid_mail_class	(No description.)
0x450108	4522248	invalid_sender_name	(No description.)
0x450109	4522249	firm_name_too_long	(No description.)
0x45010A	4522250	no_sender_street	(No description.)
0x45010B	4522251	invalid_sender_zip4	(No description.)
0x45010C	4522252	no_recipient_address	(No description.)
0x45010D	4522253	require_phone_no_for_po_box	(No description.)
0x45010E	4522254	label_date_out_of_range	(No description.)
0x45010F	4522255	agreement_not_accepted	(No description.)
0x450110	4522256	country_of_origin_required_for_commercial_sample	(No description.)
0x450111	4522257	total_line_items_weight_more_than_gross	(No description.)
0x450112	4522258	invalid_non_delivery_option	(No description.)
0x450113	4522259	invalid_container_type	(No description.)
0x450114	4522260	invalid_content_type	(No description.)
0x450115	4522261	invalid_layout	(No description.)
0x450116	4522262	purchase_stale_control_total	(No description.)
0x450117	4522263	missing_sender_phone_number_for_domestic_express	(No description.)
0x450118	4522264	missing_recipient_phone_number_for_international	(No description.)
0x450119	4522265	invalid_from_country	(No description.)
0x45011A	4522266	missing_customs_info_for_international	(No description.)
0x45011B	4522267	missing_other_describe	(No description.)
0x45011C	4522268	total_value_of_customs_lines_cannot_exceed_declared_value	(No description.)
0x45011D	4522269	missing_customs_lines	(No description.)
0x45011E	4522270	customs_line_weight_cannot_be_zero	(No description.)
0x45011F	4522271	too_many_customs_lines	(No description.)

0x450120	4522272	not_support_epl_for_international	(No description.)
0x450121	4522273	address_is_not_cleansed	(No description.)
0x450122	4522274	registration_is_not_allowed	(No description.)
0x450123	4522275	invalid_promocode	(No description.)
0x450124	4522276	invalid_custom_form	(No description.)
0x450125	4522277	missing_sender_phone_number_for_apo_fpo_address	(No description.)
0x450126	4522278	customs_line_value_cannot_be_zero	(No description.)
0x450127	4522279	missing_customs_info_for_apo_fpo	(No description.)
0x450128	4522280	not_support_epl_for_apo_fpo_address_with_customs_form_required	(No description.)
0x450129	4522281	cannot_use_form_cn22_for_mail_weight_over_15_ounces_to_apo_fpo_address	(No description.)
0x45012A	4522282	scan_not_support_intl	(No description.)
0x45012B	4522283	unsupported_image_type	(No description.)
0x45012C	4522284	duplicated_scan_items	(No description.)
0x45012D	4522285	return_label_not_supported_for_untrackable	(No description.)
0x45012E	4522286	number_of_shipping_items_to_apo_fpo_address_using_2976A_form_cannot_exceed_5	(No description.)
0x45012F	4522287	number_of_shipping_items_to_apo_fpo_address_using_2976_form_cannot_exceed_3	(No description.)
0x450130	4522288	untrackable_label_not_supported_for_express_mail	(No description.)
0x450131	4522289	returned_goods_content_type_not_supported_for_apo_fpo_address	(No description.)
0x450132	4522290	untrackable_label_not_supported_for_priority_mail	(No description.)
0x450133	4522291	invalid_print_layout	(No description.)
0x450134	4522292	invalid_from_address	(No description.)
0x450135	4522293	cannot_notify_without_tracking_number	(No description.)
0x450136	4522294	invalid_recipient_email	(No description.)
0x450137	4522295	rate_destination_zip_mismatch	(No description.)
0x450138	4522296	rate_destination_state_mismatch	(No description.)
0x450139	4522297	no_ACH_payment_method_allowed_for_reseller_account	(No description.)
0x45013A	4522298	not_supported_zpl_for_international	(No description.)
0x45013B	4522299	not_supported_zpl_for_apo_fpo_address_with_customs_form_required	(No description.)
0x45013C	4522300	invalid_rotation	(No description.)
0x45013D	4522301	invalid_ship_date_for_domestic_express	(No description.)
0x45013E	4522302	unsupported_layout	(No description.)
0x45013F	4522303	address3_not_supported_for_zpl_and_epl_printers	(No description.)
0x450140	4522304	Invalid_destination_address	(No description.)

0x450201	4522497	indicium_too_old_to_cancel	(No description.)
0x450202	4522498	non_exsiting_transaction	(No description.)
0x450203	4522499	replay_unfinished_creation	(No description.)
0x450204	4522500	failed_to_refund_postage	(No description.)
0x450205	4522501	erefund_is_not_allowed	(No description.)
0x450206	4522502	invalid_indicium_identfier	(No description.)
0x450207	4522503	label_not_allowed	(No description.)
0x450208	4522504	premium_mail_classes_only_allowed	(No description.)
0x450301	4522753	unrecognized_response	(No description.)
0x450302	4522754	usps_web_call_failed	(No description.)
0x450401	4523009	get_url_failed	(No description.)
0x450402	4523010	invalid_store_authenticator	(No description.)
0x450403	4523011	store_conversation_failed	(No description.)
0x450404	4523012	invalid_report_authenticator	(No description.)
0x450405	4523013	hmac_hash_validation_failed	(No description.)
0x450406	4523014	get_url_not_supported_for_reseller_accou nt	(No description.)
0x450501	4523265	invalid_stamps_tx_id	(No description.)
0x450502	4523266	no_tracking_id	(No description.)
0x450503	4523267	stamp_tx_id_not_allowed_without_auth	(No description.)
0x450601	4523521	invalid_rateset_id	(No description.)
0x450602	4523522	failed_to_initialize_rateset	(No description.)
0x450603	4523523	manifestandrating_call_failed	(No description.)
0x450701	4523777	netstamp_not_allowed	(No description.)
0x450801	4524033	refund_reseller_postage_failed	(No description.)
0x450802	4524034	insurance_not_supported_for_reseller_acc ount	(No description.)
0x450803	4524035	unavailable_web_method	(No description.)
0x450901	4524289	package_count_is_zero	(No description.)
0x450902	4524290	usps_carrier_pickup_connection_error	(No description.)
0x450903	4524291	package_location_special_instruction	(No description.)
0x450904	4524292	usps_carrier_pickup_api_error_message	(No description.)
0x460101	4587777	duplicate_long_name	(No description.)
0x460102	4587778	duplicate_short_alias	(No description.)
0x460103	4587779	invalid_positional_option	(No description.)
0x460104	4587780	invalid_description	(No description.)
0x460201	4588033	unknown_long_name	(No description.)
0x460202	4588034	unknown_short_alias	(No description.)
0x460203	4588035	unknown_positional_value	(No description.)
0x460204	4588036	no_value_for_option	(No description.)
0x460205	4588037	cannot_convert_value	(No description.)
0x470101	4653313	tracking_id_not_found	(No description.)
0x470102	4653314	tracking_id_already_in_batch	(No description.)
0x480100	4718848	unexpected_response_item_topic	(No description.)

0x480101	4718849	batch_invalid_type_id_topic	(No description.)
0x480102	4718850	batch_invalid_end_date_topic	(No description.)
0x480103	4718851	batch_no_new_work_topic	(No description.)
0x480104	4718852	batch_invalid_state_transition_topic	(No description.)
0x480105	4718853	batch_end_date_not_yet_reached_topic	(No description.)
0x480206	4719110	db_connection_configuration_missing_topi c	(No description.)
0x490101	4784385	unexpected_error	(No description.)
0x490102	4784386	request_soap_message_failed_schema_vali dation	(No description.)
0x490103	4784387	response_soap_message_failed_schema_v alidation	(No description.)
0x4A0101	4849921	no_rules_defined	(No description.)
0x4A0102	4849922	missing_section_in_config	(No description.)
0x4A0103	4849923	missing_config_file	(No description.)
0x4B0101	4915457	invalid_data	(No description.)
0x4B0102	4915458	invalid_argument	(No description.)
0x4C0101	4980993	invalid_data	(No description.)
0x4C0102	4980994	invalid_argument	(No description.)
0x4C0103	4980995	missing_postage_id_in_request	(No description.)
0x4C0104	4980996	invalid_authenticator	(No description.)
0x4C0105	4980997	expired_authenticator	(No description.)
0x4C0106	4980998	authentication_failed	(No description.)
0x4C0107	4980999	not_authorized	(No description.)
0x4C0201	4981249	failed_parse_recipient_address	(No description.)
0x4C0202	4981250	failed_to_get_tracking_number	(No description.)
0x4C0203	4981251	failed_to_get_print_details	(No description.)
0x4D0101	5046529	invalid_user_id	(No description.)
0x4D0102	5046530	invalid_postage_id	(No description.)
0x4D0201	5046785	not_authorized	(No description.)
0x4F0101	5177601	invalid_rate	(No description.)
0x4F0102	5177602	invalid_insurance	(No description.)
0x4F0103	5177603	invalid_registered_value	(No description.)
0x4F0104	5177604	invalid_cod_value	(No description.)
0x4F0201	5177857	wrong_rating_files	(No description.)
0x4F0202	5177858	failed_to_initialize_rate_set	(No description.)
0x4F0203	5177859	invalid_rate_set_id	(No description.)
0x4F0204	5177860	missing_config_setting	(No description.)
0x4F0205	5177861	failed_to_get_rate_hash	(No description.)
0x500101	5243137	invalid_authenticator	(No description.)
0x500102	5243138	expired_authenticator	(No description.)
0x500103	5243139	authentication_failed	(No description.)
0x500201	5243393	web_store_not_exist	(No description.)
0x500202	5243394	customer_not_exist	(No description.)

0x500203	5243395	customer_already_existed	(No description.)
0x510101	5308673	NoViolationsReadyForProcessing	(No description.)
0x510102	5308674	UnfundedViolationNotFound	(No description.)
0x510103	5308675	UnfundedViolationNotLocked	(No description.)
0x510104	5308676	UnfundedViolationItemNotFound	(No description.)
0x530001	5439489	unrecognized_special_service_id	A Client Batch Processing function that expected a special service ID from the Postage Information Engine's rate settings enumeration was passed a value that doesn't match any known service ID value.
0x530002	5439490	invalid_xml_content	(No description.)
0x530003	5439491	unsupported_file_format	The contents of an XML file aren't recognized as any XML grammar supported by the Client Batch Processing package.
0x530004	5439492	item_index_out_of_range	An attempt was made to access an Item in a Boing document by index, using an index value that falls outside the valid range.
0x530005	5439493	accessing_non_existant_value	A user of the Client Batch Processing package attempted to access a value that doesn't exist in the Boing contents.
0x540101	5505281	invalid_data	(No description.)
0x540102	5505282	invalid_argument	(No description.)
0x540103	5505283	invalid_field_size	(No description.)
0x540104	5505284	missing_required_fields	(No description.)
0x550101	5570817	invalid_data	(No description.)
0x550102	5570818	invalid_argument	(No description.)
0x550103	5570819	expired_authenticator	(No description.)
0x550104	5570820	authentication_failed	(No description.)
0x550105	5570821	not_authorized	(No description.)
0x550106	5570822	invalid_fingerprint	(No description.)
0x550107	5570823	invalid_authenticator	(No description.)
0x550108	5570824	account_closed	(No description.)
0x550109	5570825	registration_pending	(No description.)
0x550201	5571073	connect_failure	(No description.)
0x560101	5636353	InsufficientPostageBalance	(No description.)
0x560102	5636354	PurchasePostageFailed	(No description.)
0x560103	5636355	PurchasePostageAmountOutOfBounds	(No description.)
0x560104	5636356	CannotExceedMaxPostageBalance	(No description.)
0x560105	5636357	InputControlTotalDoesNotMatchActualCon	(No description.)

		trolTotal	
0x560201	5636609	ActivityBlockedDueToStatus	(No description.)
0x560301	5636865	StaleControlTotal	(No description.)
0x560401	5637121	DeprecatedMethod	(No description.)
0x570101	5701889	ResellerAccountNotFound	(No description.)
0x570102	5701890	ResellerAccountInUse	(No description.)
0x570103	5701891	ResellerAccountHasIncompletePurchase	(No description.)
0x570104	5701892	ResellerPrintInfoNotFound	(No description.)
0x570105	5701893	ResellerAccountReservationFailure	(No description.)
0x570106	5701894	ResellerAccountInsufficientBalanceForReservation	(No description.)
0x570107	5701895	ResellerAccountPurchaseIdNotFound	(No description.)
0x570108	5701896	ResellerAccountPaymentIdNotFound	(No description.)
0x570201	5702145	AmountExceedsInvoiceLimit	(No description.)
0x580101	5767425	tracking_id_not_found	(No description.)
0x580102	5767426	tracking_id_already_in_batch	(No description.)
0x580103	5767427	no_package_identification_code_available	(No description.)
0x580201	5767681	ZipNotTheSame	(No description.)
0x580202	5767682	ShippingDateNotTheSame	(No description.)
0x580203	5767683	ShippingDateBeforeToday	(No description.)
0x580204	5767684	TrackingIDListIsEmpty	(No description.)
0x580205	5767685	SenderLastNameOrCompanyIsRequired	(No description.)
0x580206	5767686	SenderAddressIsRequired	(No description.)
0x580207	5767687	SenderCityIsRequired	(No description.)
0x580208	5767688	SenderStateIsRequired	(No description.)
0x580209	5767689	SenderZipCodeIsRequired	(No description.)
0x58020A	5767690	SenderCountryIsRequired	(No description.)
0x58020B	5767691	RecipientAddressIsRequired	(No description.)
0x58020C	5767692	RecipientCountryIsRequired	(No description.)
0x58020D	5767693	CustomsLinesIsRequired	(No description.)
0x58020E	5767694	LineItemDescriptionIsRequired	(No description.)
0x58020F	5767695	LineItemQuantityIsRequired	(No description.)
0x580210	5767696	LineItemWeightIsRequired	(No description.)
0x580211	5767697	RecipientLastNameOrCompanyIsRequired	(No description.)
0x580301	5767937	unfunded_label_cannot_be_included_in_scan	(No description.)
0x590101	5832961	InvalidBatchTypeId	(No description.)
0x590102	5832962	InvalidBatchStartTime	(No description.)
0x590103	5832963	InvalidBatchDuration	(No description.)
0x590104	5832964	InvalidBatchEndTime	(No description.)
0x590105	5832965	InvalidStateTransition	(No description.)
0x5A0101	5898497	InvalidBatchTypeId	(No description.)
0x5A0102	5898498	InvalidBatchStartTime	(No description.)
0x5A0103	5898499	InvalidBatchDuration	(No description.)

0x5A0104	5898500	InvalidBatchEndTime	(No description.)
0x5A0105	5898501	InvalidStateTransition	(No description.)
0x5B0101	5964033	InvalidData	(No description.)
0x40801	264193	customer_already_authorized	(No description.)
0x40802	264194	reset_replay_message	(No description.)
0x40803	264195	db_record_lost	(No description.)
0x41401	267265	SDC_COMM_S_HTTP_OVERFLOW	(No description.)
0x41402	267266	SDC_COMM_S_CONNECTPERSISTENT	(No description.)
0x41403	267267	SDC_COMM_S_IN_PROGRESS	(No description.)
0x41801	268289	SDC_AMS_S_EXACTMATCH	(No description.)
0x41802	268290	SDC_AMS_S_MODIFIED	(No description.)
0x41803	268291	SDC_AMS_S_MULTIPLE	(No description.)
0x41804	268292	SDC_AMS_S_OVERRIDE	(No description.)
0x41C01	269313	SDC_AUTOUPDATE_S_SHUTDOWNAPP	(No description.)
0x41C02	269314	SDC_AUTOUPDATE_S_EXITLOGON	(No description.)
0x42801	272385	SDC_PRINTERCONFIG_S_DBNOTUPDATED	(No description.)
0x43007	274439	SDC_EMSCA_S_NO_MEMORY	(No description.)
0x43011	274449	SDC_EMSCA_S_NO_SESSION	(No description.)
0x4306C	274540	SDC_EMSCA_S_NO_USER	(No description.)
0x43077	274551	SDC_EMSCA_S_AUDIT_INCOMPLETE	(No description.)
0x4309D	274589	SDC_EMSCA_S_WRONG_MKS	(No description.)
0x48001	294913	shut_down_app	(No description.)
0x48002	294914	using_server_time	(No description.)
0x48003	294915	authenticate_failed	(No description.)
0x48004	294916	authenticate_password_reset	(No description.)
0x48005	294917	authenticate_account_locked	(No description.)
0x48006	294918	authenticate_password_expired	(No description.)
0x48067	295015	dci_reboot	(No description.)
0x4C401	312321	SC_CSSADMIN_S_DEFAULTALREADYSET	(No description.)
0x4C402	312322	SC_CSSADMIN_S_OVERRIDEMATCH	(No description.)
0x4C403	312323	SC_CSSADMIN_S_CONFIGINIT	(No description.)
0x4C404	312324	SC_CSSADMIN_S_CONFIGDISABLED	(No description.)
0x4C405	312325	SC_CSSADMIN_S_CONFIGNOTENABLED	(No description.)
0x4C406	312326	SC_CSSADMIN_S_OLDVERSION	(No description.)
0x4C407	312327	SC_CSSADMIN_S_INVALIDSHIFTCODE	(No description.)
0x4C408	312328	SC_CSSADMIN_S_INVALIDLANDSCAPEORIENTATION	(No description.)
0x4C801	313345	SC_DELIVERYCONF_S_USPSTESTMODE	(No description.)
0x4D401	316417	no_eula_update_required	(No description.)
0x4FD01	326913	REGWIZARD_S_PURCHASEPENDING	(No description.)
0x7F400	521216	CDKPRINT_S_PRERENDER_NORMAL	(No description.)
0x7F401	521217	CDKPRINT_S_PRERENDER_VIRTUALIZED	(No description.)
0x7F402	521218	CDKPRINT_S_PRERENDER_INDICIUM_GRAPHIC_WONT_PRINT	(No description.)

0x7F403	521219	CDKPRINT_S_USER_CANCEL	(No description.)
0x7F404	521220	CDKPRINT_S_USER_STOP_WAITING_FOR_P RINT_QUEUE	(No description.)
0x80040401	2147746817	transaction_failed	(No description.)
0x80040402	2147746818	db_error	(No description.)
			Possible causes include: (1). Inability to communicate to the audit fileserver (2). No database connections are available for retrieving e-meter checkpoints (3). Memory cannot be allocated - usually the context is logged in the Postal logs when this occurs (search for 'Out of memory') (4). During GetBillingInfo, if a credit card payment method cannot be obtained as a COM ICreditCardAccount pointer (5). During GetBillingInfo, if an ACH payment method cannot be obtained as a COM IACHAccount pointer (6). During GetBillingInfo, if an PayPal payment method cannot be obtained as a COM IPayPalAccount pointer (not used) (7). During GetPurchaseStatus, if memory cannot be allocated for the response (8). The database connection pool has lost connection to the database (9). The database connection pool times out waiting for a database connection to become available (10). No e-meter pool or no e-meters in the pool (11). No database connections are available for running a stored procedure
0x80040403	2147746819	no_resources_available	
0x80040404	2147746820	emeter_not_installed	(No description.)
0x80040405	2147746821	invalid_lpo	(No description.)
0x80040406	2147746822	invalid_login_name	(No description.)
0x80040407	2147746823	no_available_meters	(No description.)
0x80040408	2147746824	max_users_limit_reached	(No description.)
0x80040409	2147746825	zip_not_supported	(No description.)
0x8004040A	2147746826	emeter_transact_failure	(No description.)
0x8004040B	2147746827	login_name_used	(No description.)

0x8004040C	2147746828	invalid_op	(No description.)
0x8004040D	2147746829	db_pool_init_failure	(No description.)
0x8004040E	2147746830	db_pool_allocation_failed	(No description.)
0x8004040F	2147746831	unknown	(No description.)
0x80040410	2147746832	invalid_meter_number	(No description.)
0x80040411	2147746833	invalid_customer_id	(No description.)
0x80040412	2147746834	meter_in_use	(No description.)
0x80040413	2147746835	invalid_secret_code	(No description.)
0x80040414	2147746836	insufficient_postage	(No description.)
0x80040415	2147746837	request_denied	(No description.)
0x80040416	2147746838	lpo_changed	(No description.)
0x80040417	2147746839	validate_checkpoint_failure	(No description.)
0x80040418	2147746840	init_checkpoint_failure	(No description.)
0x80040419	2147746841	checkpoint_record_not_found	(No description.)
0x8004041A	2147746842	emeter_in_use	(No description.)
0x8004041B	2147746843	purchase_pending	(No description.)
0x8004041C	2147746844	emeter_not_operational	(No description.)
0x8004041D	2147746845	invalid_mail_date	(No description.)
0x8004041E	2147746846	password_reset	(No description.)
0x8004041F	2147746847	free_postage_unavailable	(No description.)
0x80040420	2147746848	max_bad_threads	(No description.)
0x80040421	2147746849	withdraw_requested	(No description.)
0x80040422	2147746850	invalid_serial_num	(No description.)
0x80040423	2147746851	invalid_software_id	DEPRECATED! This value is no longer defined in generated source code.
			This value is defined only in legacy headers (e.g., under "Server/Original" and "Server/Shared Shipping Services Libraries/Legacy Code Repository"), and appears to have been used only in the now-dead "Server/Original/PSI/StampsUI_dll" project.
0x80040424	2147746852	bad_personal_info	(No description.)
0x80040425	2147746853	bad_physical_address	(No description.)
0x80040426	2147746854	bad_mailing_address	(No description.)
0x80040427	2147746855	bad_payment_info	(No description.)
0x80040428	2147746856	bad_private_info	(No description.)
0x80040429	2147746857	bad_partner_info	(No description.)
0x8004042A	2147746858	insurance_agreement_out_of_date	(No description.)
0x8004042B	2147746859	unhandled_secret_question	(No description.)
0x8004042C	2147746860	postage_refund_time_limit_expired	(No description.)

0x8004042D	2147746861	postage_refund_denied	(No description.)
0x8004042E	2147746862	postage_refund_in_process	(No description.)
0x8004042F	2147746863	postage_refund_mail_pieces_scanned	(No description.)
0x80040430	2147746864	postage_refund_wrong_account	(No description.)
0x80040431	2147746865	postage_refund_time_limit_expired_sl	(No description.)
0x80040432	2147746866	postage_refund_time_limit_expired_ip	(No description.)
0x80040433	2147746867	postage_refund_duplicate_confirmation_number	(No description.)
0x80040434	2147746868	insufficient_postage_for_reservation	Insufficient postage.
0x80040435	2147746869	purchase_stale_control_total	(No description.)
0x80040436	2147746870	order_exceeds_offer_limit	(No description.)
0x80040437	2147746871	offer_no_longer_available	(No description.)
0x80040438	2147746872	no_email_on_file	(No description.)
0x80040439	2147746873	ibi_lite_disabled	(No description.)
0x8004043A	2147746874	too_many_refund_requests	(No description.)
0x8004043B	2147746875	refund_already_scored	(No description.)
0x8004043C	2147746876	duplicate_registration	(No description.)
0x8004043D	2147746877	invalid_rate_hash	(No description.)
0x8004043E	2147746878	print_limit_exceeded	This error is returned after the customer attempts a print and their print limit has been exceeded.
0x8004043F	2147746879	login_not_permitted	(No description.)
0x80040440	2147746880	admin_login_not_permitted	(No description.)
0x80040441	2147746881	ref_code_out_of_sync	(No description.)
0x80040442	2147746882	item_amount_exceeded	This error is returned after a user attempts to spend an amount greater than their per-item limit.
0x80040443	2147746883	lpo_pending_change	This error is returned if the user has attempted to print while a change in their LPO address is still pending.
0x80040444	2147746884	outstanding_shipped_unfunded_labels	(No description.)
0x80040445	2147746885	invalid_postage_or_wrong_state	(No description.)
0x80040446	2147746886	unfunded_shipping_label_is_not_allowed	(No description.)
0x80040447	2147746887	customs_info_is_required	(No description.)
0x80040448	2147746888	package_type_is_required	(No description.)
0x80040801	2147747841	db_error	(No description.)
0x80040802	2147747842	no_resources_available	(No description.)
0x80040803	2147747843	invalid_meter_number	(No description.)
0x80040804	2147747844	auth_psd_failed	(No description.)
0x80040805	2147747845	pvd_failed	(No description.)
0x80040806	2147747846	batch_id_not_found	(No description.)
0x80040807	2147747847	data_not_available	(No description.)

0x80040808	2147747848	invalid_meter_status	(No description.)
0x80040809	2147747849	invalid_batch_status	(No description.)
0x8004080A	2147747850	reset_meter_failed	(No description.)
0x8004080B	2147747851	unknown	(No description.)
0x8004080C	2147747852	invalid_reset_amount	(No description.)
0x8004080D	2147747853	audit_dev_ctrl_total_mismatch	(No description.)
0x8004080E	2147747854	audit_withdrawn_meter	(No description.)
0x8004080F	2147747855	invalid_conf_number	(No description.)
0x80040810	2147747856	e_refund_uncancellable	(No description.)
0x80040811	2147747857	no_pic_available	(No description.)
0x80040C01	2147748865	db_error	(No description.)
0x80040C02	2147748866	site_server_error	(No description.)
0x80040C03	2147748867	install_error	(No description.)
0x80040C04	2147748868	not_initialize_error	(No description.)
0x80040C05	2147748869	invalid_routing_num	(No description.)
0x80040C06	2147748870	invalid_account_num	(No description.)
0x80040C07	2147748871	cant_process_electronic	(No description.)
0x80040C08	2147748872	no_resources_available	(No description.)
0x80040C09	2147748873	postalex_comm_error	(No description.)
0x80040C0A	2147748874	postal_comm_error	(No description.)
0x80040C0B	2147748875	email_comm_error	(No description.)
0x80040C0C	2147748876	store_db_error	(No description.)
0x80040C0D	2147748877	payment_db_error	(No description.)
0x80040C0E	2147748878	password_recovery_error	(No description.)
0x80040C0F	2147748879	password_recovery_log_error	(No description.)
0x80040C10	2147748880	unknown	(No description.)
0x80040C11	2147748881	meter_not_reclaimed	(No description.)
0x80040C12	2147748882	has_disputed_postage	(No description.)
0x80040C13	2147748883	record_already_exists	(No description.)
0x80040C14	2147748884	final_bill_pending	(No description.)
0x80040C15	2147748885	pending_orderforms	(No description.)
0x80040C16	2147748886	membership_error	(No description.)
0x80040C17	2147748887	meter_limit_exceeded	(No description.)
0x80040C18	2147748888	insufficient_permission	(No description.)
0x80040C19	2147748889	invalid_parameters	(No description.)
0x80040C1A	2147748890	required_order_init_failed	(No description.)
0x80040C1B	2147748891	unknown_sku	(No description.)
0x80040C1C	2147748892	invalid_http_parameters	(No description.)
0x80040C1D	2147748893	invalid_object	(No description.)
0x80040C1E	2147748894	lock_customer_failed	(No description.)
0x80040C1F	2147748895	orderform_error	(No description.)
0x80040C20	2147748896	missing_resub_orderform	(No description.)
0x80040C21	2147748897	lock_meter_funds_failed	(No description.)
0x80040C22	2147748898	stale_resub_cookie	(No description.)

0x80040C23	2147748899	pipeline_error	(No description.)
0x80040C24	2147748900	invalid_poid	(No description.)
0x80040C25	2147748901	internal_fatal_error	(No description.)
0x80040C26	2147748902	invalid_pricing_plan	(No description.)
0x80040C27	2147748903	subscription_not_found	(No description.)
0x80040C28	2147748904	license_error	(No description.)
0x80040C29	2147748905	license_rejected	(No description.)
0x80040C2A	2147748906	withdrawal_pending	(No description.)
0x80040C2B	2147748907	acct_closed	(No description.)
0x80040C2C	2147748908	deadlock_error	(No description.)
0x80040C2D	2147748909	invalid_promo_code	(No description.)
0x80040C2E	2147748910	expired_promo_code	(No description.)
0x80040C2F	2147748911	invalid_promo_offer	(No description.)
0x80040C30	2147748912	postage_purchase_required	(No description.)
0x80040C31	2147748913	overlapping_date_range	(No description.)
0x80040C32	2147748914	activation_date_passed	(No description.)
0x80040C33	2147748915	promo_offer_not_found	(No description.)
0x80040C34	2147748916	free_postage_expired	(No description.)
0x80040C35	2147748917	promotion_enddate_past	(No description.)
0x80040C36	2147748918	invalid_argument_combo	(No description.)
0x80040C37	2147748919	no_free_postage_grant_found	(No description.)
0x80040C38	2147748920	no_pending_subscription	(No description.)
0x80040C39	2147748921	must_settle_disputedamt	(No description.)
0x80040C3A	2147748922	invalid_cost_code	(No description.)
0x80040C3B	2147748923	invalid_cvv2	(No description.)
0x80040C3C	2147748924	missing_cvv2	(No description.)
0x80040C3D	2147748925	duplicate_cost_code	(No description.)
0x80040C3E	2147748926	deleted_cost_code	(No description.)
0x80040C3F	2147748927	billing_invalid_batch	(No description.)
0x80040C40	2147748928	billing_collecting_metrics	(No description.)
0x80040C41	2147748929	billing_missing_metrics	(No description.)
0x80040C42	2147748930	billing_already_processed	(No description.)
0x80040C43	2147748931	billing_up_to_date	(No description.)
0x80040C44	2147748932	withdrawal_billing_up_to_date	(No description.)
0x80040C45	2147748933	invalid_payment_type	(No description.)
0x80040C46	2147748934	of_already_executing	(No description.)
0x80040C47	2147748935	settlement_already_pending	(No description.)
0x80040C48	2147748936	purchase_total_mismatch	(No description.)
0x80040C49	2147748937	paypal_ipn_pending	(No description.)
0x80040C4A	2147748938	component_uninitialized	(No description.)
0x80040C4B	2147748939	item_over_shipped	(No description.)
0x80040C4C	2147748940	killbill_ineligible	(No description.)
0x80040C4D	2147748941	insurance_already_cancelled	(No description.)
0x80040C4E	2147748942	bad_insurance_quote	(No description.)

0x80040C4F	2147748943	too_late_to_refund_insurance	(No description.)
0x80040C50	2147748944	erefund_replay	(No description.)
0x80040C51	2147748945	invalid_shopper_id	(No description.)
0x80040C52	2147748946	order_form_already_complete	(No description.)
0x80040C53	2147748947	too_many_cost_codes	(No description.)
0x80040C54	2147748948	plan_meter_balance_limit_exceeded	(No description.)
0x80040C55	2147748949	user_in_resubmit	(No description.)
0x80040C56	2147748950	no_paymentserver_info	(No description.)
0x80040C57	2147748951	user_migrated	(No description.)
0x80040C58	2147748952	monthly_meter_limit_exceeded	(No description.)
0x80040C59	2147748953	stale_control_total	(No description.)
0x80040C5A	2147748954	max_users_exceeded	(No description.)
0x80040C5B	2147748955	password_recovery_too_frequent_error	(No description.)
0x80041001	2147749889	capi_initialization_failed	(No description.)
0x80041002	2147749890	capi_operation_failed	(No description.)
0x80041003	2147749891	user_hmk_missing	(No description.)
0x80041004	2147749892	invalid_password	(No description.)
0x80041005	2147749893	authentication_failed	(No description.)
0x80041006	2147749894	signature_creation_failed	(No description.)
0x80041007	2147749895	signature_authentication_failed	(No description.)
0x80041008	2147749896	emeter_authentication_failed	(No description.)
0x80041009	2147749897	server_authentication_failed	(No description.)
0x8004100A	2147749898	code_authentication_failed	(No description.)
0x8004100B	2147749899	user_authentication_failed	(No description.)
0x8004100C	2147749900	request_signature_missing	(No description.)
0x8004100D	2147749901	response_signature_missing	(No description.)
0x80041401	2147750913	SDC_COMM_E_ERROR	(No description.)
0x80041402	2147750914	SDC_COMM_E_SSLINIT	(No description.)
0x80041403	2147750915	SDC_COMM_E_NSSINIT	(No description.)
0x80041404	2147750916	SDC_COMM_E_WINSOCKINIT	(No description.)
0x80041405	2147750917	SDC_COMM_E_PKCS11LOGIN	(No description.)
0x80041406	2147750918	SDC_COMM_E_NONFIPSMODE	(No description.)
0x80041407	2147750919	SDC_COMM_E_SSLHANDSHAKE	(No description.)
0x80041408	2147750920	SDC_COMM_E_BADSERVERADDR	(No description.)
0x80041409	2147750921	SDC_COMM_E_SOCKETCREATE	(No description.)
0x8004140A	2147750922	SDC_COMM_E_SOCKETCONNECT	(No description.)
0x8004140B	2147750923	SDC_COMM_E_TIMEDOUT	(No description.)
0x8004140C	2147750924	SDC_COMM_E_RASDIALFAIL	(No description.)
0x8004140D	2147750925	SDC_COMM_E_CONNECTREJECT	(No description.)
0x8004140E	2147750926	SDC_COMM_E_CONNECTTERMINATED	(No description.)
0x8004140F	2147750927	SDC_COMM_E_NSPPRERROR	(No description.)
0x80041410	2147750928	SDC_COMM_E_SSLERROR	(No description.)
0x80041411	2147750929	SDC_COMM_E_SENDError	(No description.)
0x80041412	2147750930	SDC_COMM_E_RECEIVEERROR	(No description.)

0x80041413	2147750931	SDC_COMM_E_BUFFERTOOSMALL	(No description.)
0x80041414	2147750932	SDC_COMM_E_WINSOCKERROR	(No description.)
0x80041415	2147750933	SDC_COMM_E_FILEERROR	(No description.)
0x80041416	2147750934	SDC_COMM_E_ABORT	(No description.)
0x80041417	2147750935	SDC_COMM_E_INVALID_URL	(No description.)
0x80041418	2147750936	SDC_COMM_E_INVALID_HTTPCONTENTTYPE	(No description.)
0x80041419	2147750937	SDC_COMM_E_HTTPCONTENT_RECEIVEERROR	(No description.)
0x8004141A	2147750938	SDC_COMM_E_HTTPHEADER_RECEIVEERROR	(No description.)
0x8004141B	2147750939	SDC_COMM_E_NORASDEVICE_INSTALLED	(No description.)
0x8004141C	2147750940	SDC_COMM_E_SOCKETLISTEN	(No description.)
0x8004141D	2147750941	SDC_COMM_E_SOCKETBIND	(No description.)
0x8004141E	2147750942	SDC_COMM_E_HTTP_NEED_CONTENTLENGTH	(No description.)
0x8004141F	2147750943	SDC_COMM_E_NORESOURCESAVAILABLE	(No description.)
0x80041420	2147750944	SDC_COMM_E_UNKNOWN	(No description.)
0x80041421	2147750945	SDC_COMM_E_ALREADYCONNECTED	(No description.)
0x80041422	2147750946	SDC_COMM_E_HTTPPROXYAUTHREQUIRED	(No description.)
0x80041423	2147750947	SDC_COMM_E_HTTPSTATUSNOTOK	(No description.)
0x80041424	2147750948	SDC_COMM_E_HTTPSTATUSSERVICEUNAVAILABLE	(No description.)
0x80041425	2147750949	SDC_COMM_E_INVALID_CONNECTION_TYPE	(No description.)
0x80041426	2147750950	SDC_COMM_E_CONNECTION_NOT_OPEN	(No description.)
0x80041427	2147750951	SDC_COMM_E_TEST_CONNECTION_FAILED	(No description.)
0x80041428	2147750952	SDC_COMM_E_RAS_USER_DISCONNECT	(No description.)
0x80041429	2147750953	SDC_COMM_E_RAS_CANNOT_FIND_PHONEBOOK_ENTRY	(No description.)
0x80041430	2147750960	SDC_COMM_E_MANUAL_NOT_CONNECTED	(No description.)
0x80041431	2147750961	SDC_COMM_E_HTTPSPROXYAUTHREQUIRED	(No description.)
0x80041432	2147750962	SDC_COMM_E_MODEM_NOT_CONNECTED	(No description.)
0x80041433	2147750963	SDC_COMM_E_INVALID_PORT_NUMBER	(No description.)
0x80041434	2147750964	SDC_COMM_E_TRANSACTION_QUEUE_FULL	(No description.)
0x80041435	2147750965	SDC_COMM_E_HTTP_NOT_MODIFIED	(No description.)
0x80041436	2147750966	SDC_COMM_E_HTTP_INTERNAL_ERROR	This is an HTTP 500 Internal Error response from the server. In 6.0, the 500 Internal Error is used to communicate SOAP faults from the Bridge back to the client, but the client should

			be translating these based on the "detail" element of the SOAP fault, so if you are seeing this, it is likely not due to a normal SOAP fault.
0x80041801	2147751937	SDC_AMS_E_CLIENTMISCONFIGURED	(No description.)
0x80041802	2147751938	SDC_AMS_E_PROTOCOLFAILURE	(No description.)
0x80041803	2147751939	SDC_AMS_E_SERVERFAILURE	(No description.)
0x80041804	2147751940	SDC_AMS_E_MALFORMEDADDRESS	(No description.)
0x80041805	2147751941	SDC_AMS_E_NOTFOUND	(No description.)
0x80041806	2147751942	SDC_AMS_E_SINGULAR	(No description.)
0x80041807	2147751943	SDC_AMS_E_APINOTRESIDENT	(No description.)
0x80041808	2147751944	SDC_AMS_E_APINOTREADY	(No description.)
0x80041809	2147751945	SDC_AMS_E_APIEXPIRED	(No description.)
0x80041C00	2147752960	E_NOSERVERREGKEY	(No description.)
0x80041C01	2147752961	E_GENFAILURE	(No description.)
0x80041C01	2147752961	SDC_AUTOUPDATE_E_MAR_LOADLIBFAILE D	DEPRECATED! This value is no longer defined in generated source code.
			This DUPLICATE HRESULT value was created by Joe Mihalich in October of 2000 (see the SourceSafe Ver 2 database for details), as part of the introduction of Marimba support in the client's auto-update processing. This HRESULT value is now properly interpreted as an E_GENFAILURE error.
0x80041C02	2147752962	E_INVALIDRESPONSEDATA	(No description.)
0x80041C02	2147752962	SDC_AUTOUPDATE_E_MAR_BUILDVERFAIL ED	DEPRECATED! This value is no longer defined in generated source code.
			This DUPLICATE HRESULT value was created by Joe Mihalich in October of 2000 (see the SourceSafe Ver 2 database for details), as part of the introduction of Marimba support in the client's auto-update processing. This HRESULT value is now properly interpreted as an E_INVALIDRESPONSEDATA error.
0x80041C03	2147752963	E_SERVERERROR	(No description.)
0x80041C03	2147752963	SDC_AUTOUPDATE_E_MAR_INITIALIZEFAIL	DEPRECATED! This value is no

		ED	longer defined in generated source code.
			This DUPLICATE HRESULT value was created by Joe Mihalich in October of 2000 (see the SourceSafe Ver 2 database for details), as part of the introduction of Marimba support in the client's auto-update processing. This HRESULT value is now properly interpreted as an E_SERVERERROR error.
0x80041C04	2147752964	SDC_AUTOUPDATE_E_MAR_UPDCHANFAILED	DEPRECATED! This value is no longer defined in generated source code.
			Dead HRESULT value associated with Marimba-based auto-update feature.
0x80041C05	2147752965	SDC_AUTOUPDATE_E_MAR_MOVENEWFAILED	DEPRECATED! This value is no longer defined in generated source code.
			Dead HRESULT value associated with Marimba-based auto-update feature.
0x80041C06	2147752966	SDC_AUTOUPDATE_E_MAR_MOVEMODFAILED	DEPRECATED! This value is no longer defined in generated source code.
			Dead HRESULT value associated with Marimba-based auto-update feature.
0x80041C07	2147752967	SDC_AUTOUPDATE_E_MAR_DELOLDFAILED	DEPRECATED! This value is no longer defined in generated source code.
			Dead HRESULT value associated with Marimba-based auto-update feature.
0x80041C08	2147752968	SDC_AUTOUPDATE_E_MAR_UPDSETLOCFAILED	DEPRECATED! This value is no longer defined in generated source code.
			Dead HRESULT value associated with Marimba-based auto-update feature.
0x80041C09	2147752969	SDC_AUTOUPDATE_E_MAR_AUTCHANFAILED	DEPRECATED! This value is no longer defined in generated source code.
			Dead HRESULT value associated with Marimba-based auto-update feature.
0x80041C0A	2147752970	SDC_AUTOUPDATE_E_MAR_OPTMANDCH	DEPRECATED! This value is no

		ANFAILED	longer defined in generated source code.
			Dead HRESULT value associated with Marimba-based auto-update feature.
0x80041C0B	2147752971	E_AUTOUPDATE_FILE_NOT_FOUND	(No description.)
0x80042401	2147755009	invalid_op_code	(No description.)
0x80042402	2147755010	invalid_request_data	(No description.)
0x80042403	2147755011	invalid_response_data	(No description.)
0x80042404	2147755012	invalid_version	(No description.)
0x80042405	2147755013	invalid_pkt_format	(No description.)
0x80042801	2147756033	SDC_PRINTERCONFIG_E_INVALIDREQUEST DATA	(No description.)
0x80042802	2147756034	SDC_PRINTERCONFIG_E_INVALIDRESPONSE DATA	(No description.)
0x80042803	2147756035	SDC_PRINTERCONFIG_E_BUILDQUERYFAILED	(No description.)
0x80042804	2147756036	SDC_PRINTERCONFIG_E_BUILDRESULTFAILED	(No description.)
0x80042805	2147756037	SDC_PRINTERCONFIG_E_DBNOCONNECT	(No description.)
0x80042806	2147756038	SDC_PRINTERCONFIG_E_BLANKCACHE	(No description.)
0x80042C01	2147757057	SDC_EMSPC_E_INVALID_STATE	(No description.)
0x80042C02	2147757058	SDC_EMSPC_E_INVALID_ARGUMENT	(No description.)
0x80042C04	2147757060	SDC_EMSPC_E_INVALID_INPUT	(No description.)
0x80042C07	2147757063	SDC_EMSPC_E_NO_MEMORY	(No description.)
0x80042C08	2147757064	SDC_EMSPC_E_BUFFER_OVERFLOW	(No description.)
0x80042C0A	2147757066	SDC_EMSPC_E_SYSCALL	(No description.)
0x80042C0C	2147757068	SDC_EMSPC_E_XC	Previously 'SDC_EMSPC_E_SCC', this value still indicates an error in the IBM library on the cryptographic coprocessor.
0x80042C10	2147757072	SDC_EMSPC_E_SESSION_OPEN	(No description.)
0x80042C11	2147757073	SDC_EMSPC_E_NO_SESSION	(No description.)
0x80042C32	2147757106	SDC_EMSPC_E_DISPATCHER_OVERFLOW	(No description.)
0x80042C33	2147757107	SDC_EMSPC_E_WORKER_OVERFLOW	(No description.)
0x80042C34	2147757108	SDC_EMSPC_E_INVALID_HEADER	(No description.)
0x80042C35	2147757109	SDC_EMSPC_E_INVALID_MODULE	(No description.)
0x80042C36	2147757110	SDC_EMSPC_E_XC_IO	Previously 'SDC_EMSPC_E_SCC_IO', this value still indicates an error in the IBM library on the cryptographic coprocessor.
0x80042C37	2147757111	SDC_EMSPC_E_UNINITIALIZED_MODULE	(No description.)
0x80042C38	2147757112	SDC_EMSPC_E_INVALID_CARD	(No description.)
0x80042C39	2147757113	SDC_EMSPC_E_CARD_OPEN	(No description.)

0x80042C3A	2147757114	SDC_EMSPC_E_INVALID_HANDLE	(No description.)
0x80042C3B	2147757115	SDC_EMSPC_E_NO_SECURITY	(No description.)
0x80042C3C	2147757116	SDC_EMSPC_E_COMM_FAILURE	(No description.)
0x80042C3D	2147757117	SDC_EMSPC_E_AUDITLOG_FAILURE	(No description.)
0x80042C3E	2147757118	SDC_EMSPC_E_AUDITLOG_BAD_PATH	(No description.)
0x80042C3F	2147757119	SDC_EMSPC_E_CARD_BUSY	(No description.)
0x80042C40	2147757120	SDC_EMSPC_E_NO_CARDS	(No description.)
0x80043001	2147758081	SDC_EMSCA_E_INVALID_STATE	(No description.)
0x80043002	2147758082	SDC_EMSCA_E_INVALID_ARGUMENT	(No description.)
0x80043003	2147758083	SDC_EMSCA_E_INVALID_ROLE	(No description.)
0x80043004	2147758084	SDC_EMSCA_E_INVALID_INPUT	(No description.)
0x80043004	2147758084	SDC_EMSCA_E_INVALID_DATA	Original comment was "XXX: REMOVE ME LATER." Only appears to be used in the Emeter Utilities package's EMAdmin program.
0x80043005	2147758085	SDC_EMSCA_E_INVALID_OPERATION	(No description.)
0x80043006	2147758086	SDC_EMSCA_E_INVALID_PADDING	(No description.)
0x80043007	2147758087	SDC_EMSCA_E_NO_MEMORY	(No description.)
0x80043008	2147758088	SDC_EMSCA_E_BUFFER_OVERFLOW	(No description.)
0x8004300B	2147758091	SDC_EMSCA_E_PPD	(No description.)
0x8004300C	2147758092	SDC_EMSCA_E_XC	Previously 'SDC_EMSCA_E_SCC', this value still indicates an error in the IBM library on the cryptographic coprocessor.
0x8004300D	2147758093	SDC_EMSCA_E_INVALID_SEC_PARMS	(No description.)
0x80043010	2147758096	SDC_EMSCA_E_SESSION_OPEN	(No description.)
0x80043011	2147758097	SDC_EMSCA_E_NO_SESSION	(No description.)
0x8004303A	2147758138	SDC_EMSCA_E_INVALID_HANDLE	(No description.)
0x80043064	2147758180	SDC_EMSCA_E_INVALID_KEY	(No description.)
0x80043065	2147758181	SDC_EMSCA_E_INVALID_ENCODING	(No description.)
0x80043066	2147758182	SDC_EMSCA_E_VERIFY	(No description.)
0x80043067	2147758183	SDC_EMSCA_E_OUT_OF_SEQUENCE	(No description.)
0x80043068	2147758184	SDC_EMSCA_E_USER_LOGGED_ON	(No description.)
0x80043069	2147758185	SDC_EMSCA_E_DATABASE_EXISTS	(No description.)
0x8004306A	2147758186	SDC_EMSCA_E_INVALID_UID	(No description.)
0x8004306B	2147758187	SDC_EMSCA_E_LOGON_FAILED	(No description.)
0x8004306C	2147758188	SDC_EMSCA_E_NO_USER	(No description.)
0x8004306D	2147758189	SDC_EMSCA_E_NOT_MASTER	(No description.)
0x8004306E	2147758190	SDC_EMSCA_E_INVALID_LENGTH	(No description.)
0x8004306F	2147758191	SDC_EMSCA_E_DORMANT_MKS	(No description.)
0x80043070	2147758192	SDC_EMSCA_E_NOT_SLAVE	(No description.)
0x80043071	2147758193	SDC_EMSCA_E_SHARE_PARAMETERS	(No description.)
0x80043072	2147758194	SDC_EMSCA_E_NO_DORMANT_MKS	(No description.)

0x80043073	2147758195	SDC_EMSCA_E_NO_ACTIVE_MKS	(No description.)
0x80043074	2147758196	SDC_EMSCA_E_EXPORTABILITY	(No description.)
0x80043075	2147758197	SDC_EMSCA_E_EXCESS_SHARE	(No description.)
0x80043076	2147758198	SDC_EMSCA_E_KEY_ID	(No description.)
0x80043078	2147758200	SDC_EMSCA_E_NO_SECURITY_OFFICER	(No description.)
0x80043079	2147758201	SDC_EMSCA_E_INVALID_ACCT_ROLE	(No description.)
0x8004307A	2147758202	SDC_EMSCA_E_INVALID_LOGON_FAIL_CO UNT	(No description.)
0x8004307B	2147758203	SDC_EMSCA_E_INVALID_LOGON_FAIL_LIM IT	(No description.)
0x8004307C	2147758204	SDC_EMSCA_E_INVALID_LOGON_TIMEOUT	(No description.)
0x8004307D	2147758205	SDC_EMSCA_E_INVALID_ACCOUNT_EXPIRA TION	(No description.)
0x8004307E	2147758206	SDC_EMSCA_E_INVALID_PASSWORD_EXPI RATION	(No description.)
0x8004307F	2147758207	SDC_EMSCA_E_INVALID_PASSWORD_PERI OD	(No description.)
0x80043080	2147758208	SDC_EMSCA_E_INIT_INSUFFICIENT_USERS	(No description.)
0x80043081	2147758209	SDC_EMSCA_E_USERTABLE_FULL	(No description.)
0x80043082	2147758210	SDC_EMSCA_E_INVALID_PASSWORD	(No description.)
0x80043083	2147758211	SDC_EMSCA_E_INVALID_DATE	(No description.)
0x80043084	2147758212	SDC_EMSCA_E_SESSION_OVERFLOW	(No description.)
0x8004309C	2147758236	SDC_EMSCA_E_WRONG_VERSION	(No description.)
0x8004309D	2147758237	SDC_EMSCA_E_WRONG_MKS	(No description.)
0x80043402	2147759106	SDC_EMSCF_E_INVALID_ARGUMENT	(No description.)
0x80043404	2147759108	SDC_EMSCF_E_INVALID_INPUT	(No description.)
0x80043405	2147759109	SDC_EMSCF_E_INVALID_OPERATION	(No description.)
0x80043406	2147759110	SDC_EMSCF_E_INVALID_PADDING	(No description.)
0x80043407	2147759111	SDC_EMSCF_E_NO_MEMORY	(No description.)
0x80043408	2147759112	SDC_EMSCF_E_BUFFER_OVERFLOW	(No description.)
0x8004340C	2147759116	SDC_EMSCF_E_XC	Previously 'SDC_EMSCF_E_SCC', this value still indicates an error in the IBM library on the cryptographic coprocessor.
0x8004340F	2147759119	SDC_EMSCF_E_AUTHENTICATION_FAILED	(No description.)
0x80043412	2147759122	SDC_EMSCF_E_INVALID_ALIGNMENT	(No description.)
0x80043464	2147759204	SDC_EMSCF_E_INVALID_KEY	(No description.)
0x80043496	2147759254	SDC_EMSCF_E_INVALID_SIGNATURE	(No description.)
0x80043497	2147759255	SDC_EMSCF_E_NSS	(No description.)
0x80043498	2147759256	SDC_EMSCF_E_SHARES_EXHAUSTED	(No description.)
0x80043499	2147759257	SDC_EMSCF_E_NOT_INVERTIBLE	(No description.)
0x8004349A	2147759258	SDC_EMSCF_E_SHARES_NOT_CONSISTENT	(No description.)
0x8004349B	2147759259	SDC_EMSCF_E_SHARES_MISSING	(No description.)
0x8004349C	2147759260	SDC_EMSCF_E_WRONG_VERSION	(No description.)

0x8004349E	2147759262	SDC_EMSCF_E_WRITE_FILE_FAILED	(No description.)
0x8004349F	2147759263	SDC_EMSCF_E_READ_FILE_FAILED	(No description.)
0x80043802	2147760130	SDC_EMHOST_E_INVALID_ARGUMENT	(No description.)
0x80043804	2147760132	SDC_EMHOST_E_INVALID_INPUT	(No description.)
0x80043805	2147760133	SDC_EMHOST_E_INVALID_OPERATION	(No description.)
0x80043807	2147760135	SDC_EMHOST_E_NO_MEMORY	(No description.)
0x8004380A	2147760138	SDC_EMHOST_E_SYSCALL	(No description.)
0x8004380C	2147760140	SDC_EMHOST_E_XC	Previously 'SDC_EMHOST_E_SCC', this value still indicates an error in the IBM library on the cryptographic coprocessor.
0x80043840	2147760192	SDC_EMHOST_E_NO_CARDS	(No description.)
0x80043C02	2147761154	SDC_EMCARD_E_INVALID_ARGUMENT	(No description.)
0x80043C04	2147761156	SDC_EMCARD_E_INVALID_INPUT	(No description.)
0x80043C05	2147761157	SDC_EMCARD_E_INVALID_OPERATION	(No description.)
0x80043C07	2147761159	SDC_EMCARD_E_NO_MEMORY	(No description.)
0x80043C08	2147761160	SDC_EMCARD_E_BUFFER_OVERFLOW	(No description.)
0x80043C0A	2147761162	SDC_EMCARD_E_SYSCALL	(No description.)
0x80043C0C	2147761164	SDC_EMCARD_E_XC	Previously 'SDC_EMCARD_E_SCC', this value still indicates an error in the IBM library on the cryptographic coprocessor.
0x80044001	2147762177	SDC_EMPSC_E_INVALID_STATE	(No description.)
0x80044002	2147762178	SDC_EMPSC_E_INVALID_ARGUMENT	(No description.)
0x80044003	2147762179	SDC_EMPSC_E_INVALID_ROLE	(No description.)
0x80044004	2147762180	SDC_EMPSC_E_INVALID_INPUT	(No description.)
0x80044005	2147762181	SDC_EMPSC_E_INVALID_OPERATION	(No description.)
0x80044006	2147762182	SDC_EMPSC_E_INVALID_PADDING	(No description.)
0x80044008	2147762184	SDC_EMPSC_E_BUFFER_OVERFLOW	(No description.)
0x80044009	2147762185	SDC_EMPSC_E_MATH_OVERFLOW	(No description.)
0x8004400A	2147762186	SDC_EMPSC_E_SYSCALL	(No description.)
0x8004400B	2147762187	SDC_EMPSC_E_PPD	(No description.)
0x8004400C	2147762188	SDC_EMPSC_E_SCC	(No description.)
0x8004400D	2147762189	SDC_EMPSC_E_INVALID_SEC_PARMS	(No description.)
0x8004400E	2147762190	SDC_EMPSC_E_INVALID_NEWPASSWORD	(No description.)
0x8004400F	2147762191	SDC_EMPSC_E_AUTHENTICATION_FAILED	(No description.)
0x80044011	2147762193	SDC_EMPSC_E_NO_SESSION	(No description.)
0x800440C8	2147762376	SDC_EMPSC_E_INVALID_PACKAGE	(No description.)
0x800440C9	2147762377	SDC_EMPSC_E_NO_METERS	(No description.)
0x800440CA	2147762378	SDC_EMPSC_E_KEY_EXPIRED	(No description.)
0x800440CB	2147762379	SDC_EMPSC_E_USERHMK_KEY_EXPIRED	(No description.)
0x800440CC	2147762380	SDC_EMPSC_E_INVALID_PACKAGE_STATE	(No description.)
0x800440CD	2147762381	SDC_EMPSC_E_REGISTER_OVERFLOW	(No description.)

0x800440CE	2147762382	SDC_EMPSC_E_CHALLENGE_INVALID	(No description.)
0x800440CF	2147762383	SDC_EMPSC_E_INVALID_USER_SECRETS	(No description.)
0x800440D0	2147762384	SDC_EMPSC_E_NO_FUNDS	(No description.)
0x800440D1	2147762385	SDC_EMPSC_E_INVALID_CERTIFICATE	(No description.)
0x800440D2	2147762386	SDC_EMPSC_E_INVALID_CHECKPOINT	(No description.)
0x800440D3	2147762387	SDC_EMPSC_E_CHECKPOINT_IS_CURRENT	(No description.)
0x800440D4	2147762388	SDC_EMPSC_E_CHECKPOINT_NOT_FOUND	(No description.)
0x800440D5	2147762389	SDC_EMPSC_E_IPOST_KEY_EXPIRED	(No description.)
0x800440D6	2147762390	SDC_EMPSC_E_CERTIFICATE_EXPIRED	(No description.)
0x800440D7	2147762391	SDC_EMPSC_E_INVALID_CONTROL_TOTAL	(No description.)
0x800440D8	2147762392	SDC_EMPSC_E_INVALID_DSK_IPOSTID	(No description.)
0x800440D9	2147762393	SDC_EMPSC_E_INVALID_RSK_IPOSTID	(No description.)
0x800440DD	2147762397	SDC_EMPSC_E_IGNORED_TOO_NEW	(No description.)
0x800440DE	2147762398	SDC_EMPSC_E_INVALID_DSK_AUTHID	(No description.)
0x80048001	2147778561	session_closed	(No description.)
0x80048002	2147778562	capability_disabled	(No description.)
0x80048003	2147778563	print_eng_config_init	(No description.)
0x80048004	2147778564	print_eng_forms_dat	(No description.)
0x80048005	2147778565	print_eng_invalid_job	(No description.)
0x80048006	2147778566	meter_withdrawn	(No description.)
0x80048007	2147778567	subscription_not_processed	(No description.)
0x80048008	2147778568	cap_login_disabled	(No description.)
0x80048009	2147778569	cap_update_license_disabled	(No description.)
0x8004800A	2147778570	cap_withdraw_meter_disabled	(No description.)
0x8004800B	2147778571	cap_purchase_disabled	(No description.)
0x8004800C	2147778572	cap_change_plan_disabled	(No description.)
0x8004800D	2147778573	cap_change_password_disabled	(No description.)
0x8004800E	2147778574	cap_update_payment_disabled	(No description.)
0x8004800F	2147778575	cap_order_sub_purchase_disabled	(No description.)
0x80048010	2147778576	cap_print_qa_disabled	(No description.)
0x80048011	2147778577	cap_print_disabled	(No description.)
0x80048012	2147778578	not_in_password_reset_mode	(No description.)
0x80048013	2147778579	insufficient_reg_permission	(No description.)
0x80048014	2147778580	comcat_root_create_failed	(No description.)
0x80048015	2147778581	comcat_cannot_open	(No description.)
0x80048016	2147778582	comcat_cannot_delete	(No description.)
0x80048017	2147778583	comcat_cannot_open_clsid_key	(No description.)
0x80048018	2147778584	comcat_cannot_create_clsid_key	(No description.)
0x80048019	2147778585	comcat_cannot_delete_clsid_key	(No description.)
0x8004801A	2147778586	comcat_cannot_enum_clsid_key	(No description.)
0x8004801B	2147778587	comcat_cannot_set_reg_value	(No description.)
0x8004801C	2147778588	printer_driver_info	(No description.)
0x8004801D	2147778589	invalid_cost_code_format	(No description.)

0x8004801E	2147778590	printer_not_in_db	(No description.)
0x8004801F	2147778591	user_cancelled_request	(No description.)
0x80048020	2147778592	printjob_general	(No description.)
0x80048021	2147778593	printjob_mail_class	(No description.)
0x80048022	2147778594	printjob_insurance	(No description.)
0x80048023	2147778595	printjob_registeredmail	(No description.)
0x80048024	2147778596	printjob_mailclass_specialservices	(No description.)
0x80048025	2147778597	printjob_specialservices	(No description.)
0x80048026	2147778598	printjob_zipcode	(No description.)
0x80048027	2147778599	printjob_date_out_of_range	(No description.)
0x80048028	2147778600	printjob_weight	(No description.)
0x80048029	2147778601	printjob_date_invalid	(No description.)
0x8004802A	2147778602	printjob_form_factor	(No description.)
0x8004802B	2147778603	printjob_eservice_conflict	DEPRECATED! This value is no longer defined in generated source code.
			This definition was commented out of the Client's "SOHO Fat Client/Client/Soho1x/common/include/SCErrors.h" header in Keith's changelist 8020 (January, 2004), which involved the removal of EService-related features from several Client projects.
0x8004802C	2147778604	printjob_cdk_rate_validity_eservice_not_set	DEPRECATED! This value is no longer defined in generated source code.
			This definition was commented out of the Client's "SOHO Fat Client/Client/Soho1x/common/include/SCErrors.h" header in Keith's changelist 8020 (January, 2004), which involved the removal of EService-related features from several Client projects.
0x8004802D	2147778605	printjob_recipients	(No description.)
0x8004802E	2147778606	printjob_return_address_required	(No description.)
0x8004802F	2147778607	printjob_return_address_invalid_media	(No description.)
0x80048030	2147778608	printjob_media_not_set	(No description.)
0x80048031	2147778609	printjob_invalid_rate	(No description.)
0x80048032	2147778610	printjob_invalid_number_stamps	(No description.)
0x80048033	2147778611	printjob_invalid_indicium	(No description.)
0x80048034	2147778612	printjob_invalid_serial_number	(No description.)
0x80048035	2147778613	printjob_invalid_start_number	(No description.)
0x80048036	2147778614	printjob_no_stamps_left_on_media	(No description.)

0x80048037	2147778615	printjob_max_postage_amount_for_media	(No description.)
0x80048038	2147778616	printjob_labels_already_used	(No description.)
0x80048039	2147778617	printjob_serial_number_media_conflict	(No description.)
0x8004803A	2147778618	printjob_media_not_supported	(No description.)
0x8004803B	2147778619	printjob_cant_print_envelopes_server	(No description.)
0x8004803C	2147778620	printjob_cant_print_labels_server	(No description.)
0x8004803D	2147778621	printjob_cant_print_envelopes_calculated	(No description.)
0x8004803E	2147778622	printjob_cant_print_labels_calculated	(No description.)
0x8004803F	2147778623	printjob_cant_print_to_file	(No description.)
0x80048040	2147778624	printjob_gdi_failure	(No description.)
0x80048041	2147778625	printjob_delivery_address_too_wide	(No description.)
0x80048042	2147778626	printjob_delivery_address_too_tall	(No description.)
0x80048043	2147778627	printjob_return_address_too_wide	(No description.)
0x80048044	2147778628	printjob_return_address_too_tall	(No description.)
0x80048045	2147778629	printjob_internal_indicum_too_wide	(No description.)
0x80048046	2147778630	printjob_internal_indicum_too_tall	(No description.)
0x80048047	2147778631	printjob_printer_not_configured	(No description.)
0x80048048	2147778632	printjob_engine_not_initialized	(No description.)
0x80048049	2147778633	printjob_must_pre_render	(No description.)
0x8004804A	2147778634	printjob_gdi_resources_too_low	(No description.)
0x8004804B	2147778635	printjob_cant_fit_items_on_page	(No description.)
0x8004804C	2147778636	printjob_value_not_set	(No description.)
0x8004804D	2147778637	printjob_cant_open_transaction_log	(No description.)
0x8004804E	2147778638	printjob_custom_envelopes_disabled	(No description.)
0x8004804F	2147778639	printjob_custom_envelopes_disabled_for_printer	(No description.)
0x80048050	2147778640	printjob_printer_error	(No description.)
0x80048051	2147778641	printjob_required_tokens_missing	(No description.)
0x80048052	2147778642	printjob_printer_not_in_db	(No description.)
0x80048053	2147778643	printjob_return_address_too_big	(No description.)
0x80048054	2147778644	printjob_delivery_address_too_big	(No description.)
0x80048055	2147778645	printjob_internal_print_error	(No description.)
0x80048056	2147778646	printjob_shipping_media_not_supported	(No description.)
0x80048057	2147778647	printjob_printer_not_trusted	(No description.)
0x80048058	2147778648	printjob_printer_not_set	(No description.)
0x80048059	2147778649	printjob_message_too_big	(No description.)
0x8004805A	2147778650	printjob_costcode_invalid	(No description.)
0x8004805B	2147778651	printer_error	(No description.)
0x8004805C	2147778652	no_new_eula_error	(No description.)
0x8004805D	2147778653	printjob_return_font	(No description.)
0x8004805E	2147778654	printjob_recipient_font	(No description.)
0x8004805F	2147778655	printjob_low_disk_space	(No description.)
0x80048060	2147778656	printjob_return_address_graphic_open_err or	(No description.)

0x80048061	2147778657	printjob_return_address_graphic_error	(No description.)
0x80048062	2147778658	printjob_indicium_graphic_open_error	(No description.)
0x80048063	2147778659	printjob_indicium_graphic_error	(No description.)
0x80048064	2147778660	cant_change_user	(No description.)
0x80048065	2147778661	mandatory_login_canceled	(No description.)
0x80048066	2147778662	cap_update_acct_contact_info_disabled	(No description.)
0x80048067	2147778663	dci_op_unsupported	(No description.)
0x80048068	2147778664	dci_access_denied	(No description.)
0x80048069	2147778665	dci_invalid_arg	(No description.)
0x8004806A	2147778666	dci_unspecified	(No description.)
0x8004806B	2147778667	dci_op_aborted	(No description.)
0x8004806C	2147778668	dimension_set_no_description	(No description.)
0x8004806D	2147778669	dimension_set_exceeds_maximum_size	(No description.)
0x8004806E	2147778670	package_dimensions_are_zero	(No description.)
0x8004806F	2147778671	dimensions_conflict_with_form_factor	(No description.)
0x80048070	2147778672	cannot_obtain_computer_fingerprint	The client cannot perform an operation that requires the computer fingerprint (such as user authentication or postage purchase) due to an inability to assemble the fingerprint information for the user's computer.
0x80048071	2147778673	printjob_delivery_addresses_have_different_country	(No description.)
0x80048072	2147778674	printjob_missing_sender	(No description.)
0x80048073	2147778675	printjob_missing_sender_name	(No description.)
0x80048074	2147778676	printjob_missing_sender_street	(No description.)
0x80048075	2147778677	printjob_missing_sender_city	(No description.)
0x80048076	2147778678	printjob_missing_sender_state	(No description.)
0x80048077	2147778679	printjob_missing_sender_zip	(No description.)
0x80048078	2147778680	printjob_missing_sender_phone	(No description.)
0x80048079	2147778681	printjob_missing_recipient_name	(No description.)
0x80048080	2147778688	printjob_missing_recipient_city	(No description.)
0x80048081	2147778689	printjob_missing_recipient_street	(No description.)
0x80048082	2147778690	printjob_missing_recipient_country	(No description.)
0x80048083	2147778691	printjob_missing_recipient_phone	(No description.)
0x80048084	2147778692	printjob_missing_content	(No description.)
0x80048085	2147778693	printjob_missing_content_description	(No description.)
0x80048086	2147778694	printjob_invalid_content_quantity	(No description.)
0x80048087	2147778695	printjob_invalid_content_value	(No description.)
0x80048088	2147778696	printjob_invalid_total_weight	(No description.)
0x80048089	2147778697	printjob_invalid_content_type	(No description.)
0x80048090	2147778704	printjob_invalid_content_type_other	(No description.)
0x80048091	2147778705	printjob_invalid_restriction_agreement	(No description.)

0x80048092	2147778706	printjob_customs_form_not_specified	(No description.)
0x80048093	2147778707	printjob_missing_content_countryoforigin	(No description.)
0x80048094	2147778708	printjob_missing_restriction_agreement	(No description.)
0x80048095	2147778709	printjob_express_mail_delivery_options_not_supported_by_media	(No description.)
0x80048096	2147778710	printjob_mail_class_not_supported_with_this_plan	To gain access to the selected low-cost USPS shipping method and other popular shipping features, please upgrade your Stamps.com account.
0x80048401	2147779585	SDC_CMLSSVC_E_NORESOURCESAVAILABLE	(No description.)
0x80048402	2147779586	SDC_CMLSSVC_E_INVALIDAPPLICATIONID	(No description.)
0x80048403	2147779587	SDC_CMLSSVC_E_INVALIDBATCHID	(No description.)
0x80048404	2147779588	SDC_CMLSSVC_E_INVALIDLICENSENUMBER	(No description.)
0x80048405	2147779589	SDC_CMLSSVC_E_INVALIDCUSTID	(No description.)
0x80048406	2147779590	SDC_CMLSSVC_E_METERNOTFOUND	(No description.)
0x80048407	2147779591	SDC_CMLSSVC_E_READ_NOTIFICATION_FILE	(No description.)
0x80048408	2147779592	SDC_CMLSSVC_E_READ_ACK_FILE	(No description.)
0x80048409	2147779593	SDC_CMLSSVC_E_WRITE_APPLICATION_FILE	(No description.)
0x8004840A	2147779594	SDC_CMLSSVC_E_WRITE_UPDATE_FILE	(No description.)
0x8004840B	2147779595	SDC_CMLSSVC_E_ALREADY_PROCESSING	(No description.)
0x80048801	2147780609	SDC_CMRSSVC_E_NORESOURCESAVAILABLE	(No description.)
0x80048802	2147780610	SDC_CMRSSVC_E_INVALIDBATCHID	(No description.)
0x80048803	2147780611	SDC_CMRSSVC_E_ALREADY_SENT	(No description.)
0x80048804	2147780612	SDC_CMRSSVC_E_WRITE_RESET_FILE	(No description.)
0x80048805	2147780613	SDC_CMRSSVC_E_WRITE_MOVEMENT_FILE	(No description.)
0x80048806	2147780614	SDC_CMRSSVC_E_ALREADY_PROCESSING	(No description.)
0x80048807	2147780615	SDC_CMRSSVC_E_NOT_MOVEMENT_DAY	(No description.)
0x80048808	2147780616	SDC_CMRSSVC_E_NOT_RESET_DAY	(No description.)
0x80048809	2147780617	SDC_CMRSSVC_E_INVALIDDBARDATE	(No description.)
0x8004880A	2147780618	SDC_CMRSSVC_E_WRITE_MODELSUMMARY_FILE	(No description.)
0x8004880B	2147780619	SDC_CMRSSVC_E_WRITE_SLD_FILE	(No description.)
0x8004880C	2147780620	SDC_CMRSSVC_E_INVALID_PUBKEY	(No description.)
0x80048C01	2147781633	SDC_ACHSVC_E_NORESOURCESAVAILABLE	(No description.)
0x80048C02	2147781634	SDC_ACHSVC_E_WRITE_PAYMENT_FILE	(No description.)
0x80048C03	2147781635	SDC_ACHSVC_E_READ_FILE	(No description.)
0x80048C04	2147781636	SDC_ACHSVC_E_READ_ACK_FILE	(No description.)
0x80048C05	2147781637	SDC_ACHSVC_E_ALREADY_PROCESSING	(No description.)
0x80048C06	2147781638	SDC_ACHSVC_E_WRITE_SEND_PASSWORD_FILE	(No description.)

0x80048C07	2147781639	SDC_ACHSVC_E_WRITE_RET_PASSWORD_F ILE	(No description.)
0x80048C08	2147781640	SDC_ACHSVC_E_WRITE_ACK_PASSWORD_ FILE	(No description.)
0x80048C09	2147781641	SDC_ACHSVC_E_NO_ACK	(No description.)
0x80048C0A	2147781642	SDC_ACHSVC_E_INVALID_ACCOUNTNO	(No description.)
0x80048C0B	2147781643	SDC_ACHSVC_E_READ_CONF_FILE	(No description.)
0x80048C0C	2147781644	SDC_ACHSVC_E_READ_JRNL_FILE	(No description.)
0x80048C0D	2147781645	SDC_ACHSVC_E_READ_SUMM_FILE	(No description.)
0x80048C0E	2147781646	SDC_ACHSVC_E_READ_SETL_FILE	(No description.)
0x80048C0F	2147781647	SDC_ACHSVC_E_READ_RETS_FILE	(No description.)
0x80048C10	2147781648	SDC_ACHSVC_E_WRITE_FILE	(No description.)
0x80049001	2147782657	SDC_EISVC_E_NORESOURCESAVAILABLE	(No description.)
0x80049002	2147782658	SDC_EISVC_E_RETRIEVE_CONFIG_FAILURE	(No description.)
0x80049003	2147782659	SDC_EISVC_E_EICOMMSTUB_FAILED	(No description.)
0x80049004	2147782660	SDC_EISVC_E_INVALIDBATCHID	(No description.)
0x80049005	2147782661	SDC_EISVC_E_EMAIL_FAILED	(No description.)
0x80049006	2147782662	SDC_EISVC_E_AUDIT_FAILED	(No description.)
0x80049007	2147782663	SDC_EISVC_E_INVALID_DAY	(No description.)
0x80049008	2147782664	SDC_EISVC_E_NO_CONFIG_DATA	(No description.)
0x80049009	2147782665	SDC_EISVC_E_TRANSMIT_FAILED	(No description.)
0x8004900A	2147782666	SDC_EISVC_E_SHARING_VIOLATION	(No description.)
0x8004900B	2147782667	SDC_EISVC_E_NO_FILES	(No description.)
0x8004900C	2147782668	SDC_EISVC_E_FILESIZEOUTOFRANGE	(No description.)
0x8004900D	2147782669	SDC_EISVC_E_BUFFERTOOSMALL	(No description.)
0x80049801	2147784705	SDC_EMAIL_E_EMAIL_DB_ERROR	(No description.)
0x80049802	2147784706	SDC_EMAIL_E_INVALID_TEMPLATE	(No description.)
0x80049C01	2147785729	SDC_SERVERCOMM_E_ERROR	(No description.)
0x80049C08	2147785736	SDC_SERVERCOMM_E_INVALID_URL	(No description.)
0x8004A401	2147787777	SDC_METERGEN_E_MISSING_CONFIGURAT ION	(No description.)
0x8004A402	2147787778	SDC_METERGEN_E_INVALID_METERNUMB ER	(No description.)
0x8004A403	2147787779	SDC_METERGEN_E_DUPLICATE_METER	(No description.)
0x8004C001	2147794945	SC_BATCH_E_STARTFAILED	(No description.)
0x8004C002	2147794946	SC_BATCH_E_UPDATESTATUSFAILED	(No description.)
0x8004C401	2147795969	SC_CSSADMIN_E_INVALIDPRINTERID	(No description.)
0x8004C402	2147795970	SC_CSSADMIN_E_INVALIDCONFIGURATION	(No description.)
0x8004C801	2147796993	SC_DELIVERYCONF_E_REQUESTDENIED	(No description.)
0x8004C802	2147796994	SC_DELIVERYCONF_E_PROTOCOLERROR	(No description.)
0x8004C803	2147796995	SC_DELIVERYCONF_E_SERVICEUNAVAILA BLE	(No description.)
0x8004C804	2147796996	SC_DELIVERYCONF_E_SVCPROVIDERREFUS ED	(No description.)
0x8004C805	2147796997	SC_DELIVERYCONF_E_UNEXPECTEDERROR	(No description.)

0x8004C806	2147796998	SC_DELIVERYCONF_E_INVALIDZIPCODE	USPS Desc:Delivery Zip Code is unknown (-2147218240)
0x8004C807	2147796999	SC_DELIVERYCONF_E_INVALIDEMAILADDRESS	(No description.)
0x8004C808	2147797000	SC_DELIVERYCONF_E_INVALIDLABELDATE	USPS Desc:Ship Date must be within the next three days (-2147218242) for Priority Mail Express
0x8004C809	2147797001	SC_DELIVERYCONF_E_MISSINGREQUIREDFIELD	USPS Desc:Invalid XML Element content is invalid according to the DTD/Schema. Expecting: [[some field]] (-2147219067)
0x8004C80A	2147797002	SC_DELIVERYCONF_E_INVALIDCONFNUMBER	USPS Desc:No record of that item (-2147219302)
0x8004C80B	2147797003	SC_DELIVERYCONF_E_APOFPOZIPDENIED	(No description.)
0x8004C80C	2147797004	SC_DELIVERYCONF_E_ALREADY_PROCESSING	(No description.)
0x8004C80D	2147797005	SC_DELIVERYCONF_E_INVALIDWEIGHT	USPS Desc:The weight must be greater than zero and less than 70 lbs. (-2147218251) for Priority Mail Express
0x8004C80E	2147797006	SC_DELIVERYCONF_E_INVALIDFROMPHONE	USPS Desc:Sender phone number is invalid. Supply a 10-digit phone number without punctuation (-2147218235)
0x8004C80F	2147797007	SC_DELIVERYCONF_E_FROMFIRSTLASTFIRMREQUIRED	USPS Desc:From First/Last Name and/or Firm is required (-2147218244)
0x8004C810	2147797008	SC_DELIVERYCONF_E_TOFIRSTLASTFIRMREQUIRED	USPS Desc:To First/Last Name and/or Firm is required (-2147218234)
0x8004C811	2147797009	SC_DELIVERYCONF_E_MISSINGVALUEFORFROMPHONE	USPS Desc:Missing value for From Phone (-2147219030)
0x8004C812	2147797010	SC_DELIVERYCONF_E_RETURNZIPCODENOT4	USPS Desc:Return Zip +4 Code must be 4 digits (-2147218248)
0x8004C813	2147797011	SC_DELIVERYCONF_E_MISSINGTOADDRESS	USPS Desc:Missing value for To Address (-2147219074)
0x8004C814	2147797012	SC_DELIVERYCONF_E_MISSINGFROMADDRESS	USPS Desc:Missing value for From Address (-2147219078)
0x8004C815	2147797013	SC_DELIVERYCONF_E_DELIVERYZIPUNKNOWN	USPS Desc:Delivery Zip Code is unknown (-2147218240)
0x8004C816	2147797014	SC_DELIVERYCONF_E_NEEDNUMERICZIP	USPS Desc:Please enter a numeric Delivery Zip +4 Code (-2147218247)
0x8004C817	2147797015	SC_DELIVERYCONF_E_NEEDNUMERICRETURNZIP	USPS Desc:Please enter a numeric Return Zip Code (-2147218249)
0x8004C818	2147797016	SC_DELIVERYCONF_E_NOINFOAVAILABLE	USPS Desc:No information available (-2147219301)

0x8004C819	2147797017	SC_DELIVERYCONF_E_INVALIDTRACKINGID	USPS Desc:Invalid tracking id (-2147219297)
0x8004CC01	2147798017	SDC_MINISTORESVC_E_ALREADY_PROCESSING	(No description.)
0x8004CC02	2147798018	SDC_MINISTORESVC_E_NORESOURCESAVAILABLE	(No description.)
0x8004CC03	2147798019	SDC_MINISTORESVC_E_WRITE_P3ORDER_FILE	(No description.)
0x8004D001	2147799041	SDC_PAYINFOUPDATER_E_CONNECTFAILED	(No description.)
0x8004D002	2147799042	SDC_PAYINFOUPDATER_E_TRANSMITFAILED	(No description.)
0x8004D003	2147799043	SDC_PAYINFOUPDATER_E_DOWNLOADPROCESSFAILED	(No description.)
0x8004D004	2147799044	SDC_PAYINFOUPDATER_E_UPLOADPROCESSFAILED	(No description.)
0x8004D401	2147800065	SDC_CATALOG_E_DATA_INTEGRITY_ERROR	(No description.)
0x8004D401	2147800065	missing_required_field	(No description.)
0x8004D402	2147800066	SDC_CATALOG_E_INVALIDREQUESTDATA	(No description.)
0x8004D402	2147800066	ineligible_for_insurance	(No description.)
0x8004D403	2147800067	SDC_CATALOG_E_INVALIDRESPONSEDATA	(No description.)
0x8004D403	2147800067	invalid_mailing_state	(No description.)
0x8004D404	2147800068	SDC_CATALOG_E_BUILDQUERYFAILED	(No description.)
0x8004D404	2147800068	unexpected_server_error	(No description.)
0x8004D801	2147801089	unexpected_server_error	(No description.)
0x8004D802	2147801090	database_error	(No description.)
0x8004D803	2147801091	invalid_activation_code	(No description.)
0x8004D804	2147801092	email_address_not_found	(No description.)
0x8004D805	2147801093	expired_activation_code	(No description.)
0x8004DC01	2147802113	builder_failed	An error occurred building a message.
0x8004DC02	2147802114	parser_failed	An error occurred parsing a message.
0x8004DC03	2147802115	fedex_error	(No description.)
0x8004DC04	2147802116	internal_error	An internal error occurred in the server.
0x8004DC05	2147802117	fedex_http_error	An HTTP error was reported by FedEx.
0x8004DC06	2147802118	fedex_comm_error	A communication error occurred attempting to reach FedEx.
0x8004DC41	2147802177	no_recipients	First error HRESULT value defined by the "Client/FedEx Print Engine" project. Starting at 0x041 to share the FedEx subsystem (HRESULT source) with FedEx protocol.

0x8004E001	2147803137	client_update_required	(No description.)
0x8004E002	2147803138	database_exception	(No description.)
0x8004E003	2147803139	postal_connect_failed	(No description.)
0x8004E004	2147803140	postal_request_failed	(No description.)
0x8004E005	2147803141	unknown_exception	(No description.)
0x8004E101	2147803393	no_repository	(No description.)
0x8004E102	2147803394	missing_required_value	(No description.)
0x8004E103	2147803395	configuration_crypto_failure	(No description.)
0x8004E111	2147803409	invalid_authenticator	(No description.)
0x8004E112	2147803410	expired_authenticator	(No description.)
0x8004E113	2147803411	invalid_conversation_token	(No description.)
0x8004E114	2147803412	conversation_out_of_sync	(No description.)
0x8004E115	2147803413	authenticator_crypto_failure	(No description.)
0x8004E116	2147803414	user_not_linked_to_store	(No description.)
0x8004E131	2147803441	password_too_long	(No description.)
0x8004E132	2147803442	password_too_short	(No description.)
0x8004E133	2147803443	password_no_alpha	(No description.)
0x8004E134	2147803444	password_no_digit	(No description.)
0x8004E135	2147803445	password_invalid	(No description.)
0x8004E136	2147803446	password_repeated	(No description.)
0x8004E137	2147803447	password_syntax_invalid	(No description.)
0x8004E138	2147803448	password_change_too_frequent	(No description.)
0x8004E139	2147803449	password_has_user_name	(No description.)
0x8004E13A	2147803450	password_has_first_name	(No description.)
0x8004E13B	2147803451	password_has_last_name	(No description.)
0x8004E13C	2147803452	password_has_company_name	(No description.)
0x8004E13D	2147803453	password_has_phone_number	(No description.)
0x8004E13E	2147803454	password_has_dictionary_word	(No description.)
0x8004E141	2147803457	not_in_password_reset	(No description.)
0x8004E142	2147803458	invalid_codewords	(No description.)
0x8004E151	2147803473	authentication_failed	(No description.)
0x8004E152	2147803474	insufficient_client_version	(No description.)
0x8004E153	2147803475	user_not_linked_to_postal	(No description.)
0x8004E154	2147803476	invalid_corporate_meter	(No description.)
0x8004E161	2147803489	account_in_use	(No description.)
0x8004E171	2147803505	create_store_profile_failure	(No description.)
0x8004E181	2147803521	timed_out	(No description.)
0x8004E191	2147803537	bridge_registration	(No description.)
0x8004E192	2147803538	plan_subscription_failure	(No description.)
0x8004E193	2147803539	bridge_registration_timeout	(No description.)
0x8004E1A0	2147803552	invalid_activation_code	User cannot be activated; activation code supplied is invalid.
0x8004E1A1	2147803553	exceeded_per_print_limit	(No description.)

0x8004E1A2	2147803554	reference_code_required	(No description.)
0x8004E1A3	2147803555	user_access_denied	(No description.)
0x8004E1A4	2147803556	login_not_permitted	CORPORATE Reports users who are not assigned to any particular meter and are attempting to use the client.
0x8004E1A5	2147803557	admin_login_not_permitted	CORPORATE admin users who are not assigned to any particular meter and are attempting to use the client.
0x8004E1A6	2147803558	manage_users_required	User needs to have the capability to manage other users.
0x8004E1A7	2147803559	user_already_activated	User cannot be activated because they have been activated already.
0x8004E1A8	2147803560	user_not_found	User activation failed because username was not found.
0x8004E1A9	2147803561	user_is_inactive	User cannot be activated because they've been marked as inactive.
0x8004E1AA	2147803562	web_based_reports_required	User needs to have the capability to view web based reports.
0x8004E1AB	2147803563	cannot_remove_last_admin	The last admin user cannot be removed.
0x8004E1AC	2147803564	insufficient_security	Due to security settings set by network administrator, you must use Stamps.com version 9.6 or higher. Please contact your network administrator for more details
0x8004E1AC	2147803564	login_banner_text_missing	The Login Banner Text has not be setup properly for this account
0x8004E1AD	2147803565	unable_to_print	Unable to Print.
0x8004E1B1	2147803569	invalid_mail_class	Specified mail class is incompatible with specified rate category.
0x8004E1B2	2147803570	invalid_num_indicia	Number of indicia requested must be greater than 0.
0x8004E1B3	2147803571	list_length_mismatch	Number of elements in a list argument is incorrect.
0x8004E1B4	2147803572	invalid_customer_id	Specified customer id does not exist.
0x8004E1C1	2147803585	no_admin_users_on_initial_meter	There are no users with admin rights on this meter.
0x8004E1C2	2147803586	corporation_already_exists	A corporation with this name already exists.

0x8004E1C3	2147803587	customer_already_associated_with_corporation	Specified customer is already assigned to a corporation.
0x8004E3FF	2147804159	unknown	(No description.)
0x8004E401	2147804161	usps_server_error	An error returned from USPS Web API.
0x8004E801	2147805185	get_commitments_failed	Priority Mail Express Service Commitments failed.
0x8004EBFF	2147806207	unknown	(No description.)
0x8004FC01	2147810305	REGWIZARD_E_PURCHASEREJECTED	(No description.)
0x8004FC94	2147810452	DBAPI_PROFILE_ID_NOT_FOUND	(No description.)
0x8004FC95	2147810453	DBAPI_BAD_PROFILE_FILE_FORMAT	(No description.)
0x8004FC96	2147810454	DBAPI_DUPLICATE_PROFILE_ID	(No description.)
0x8004FC97	2147810455	DBAPI_ORDER_ID_NOT_FOUND	(No description.)
0x8004FC98	2147810456	DBAPI_ODBC_CONNECTION_ERROR	(No description.)
0x8004FC99	2147810457	DBAPI_AUTHENTICATION_ERROR	(No description.)
0x8004FC9A	2147810458	DBAPI_XML_IMPORT_FILE_NOT_FOUND	(No description.)
0x8004FC9B	2147810459	DBAPI_XML_IMPORT_FILE_FORMAT_ERROR	(No description.)
0x8004FC9C	2147810460	DBAPI_LOGIN_REQUIRED	(No description.)
0x8004FC9D	2147810461	DBAPI_BATCH_SERVER_ERROR	(No description.)
0x8004FC9E	2147810462	DBAPI_USER_CHANGED	(No description.)
0x8004FC9F	2147810463	DBAPI_WEBSTORE_ERROR	(No description.)
0x8004FCA0	2147810464	DBAPI_ORDER_DATE_NOT_MAPPED	(No description.)
0x8004FCA1	2147810465	DBAPI_TIMEOUT_ERROR	(No description.)
0x8007F400	2148004864	CDKPRINT_E_MEDIA_NOT_SUPPORTED	(No description.)
0x8007F401	2148004865	CDKPRINT_E_CANT_PRINT_ENVELOPES_SERVER	(No description.)
0x8007F402	2148004866	CDKPRINT_E_CANT_PRINT_LABELS_SERVER	(No description.)
0x8007F403	2148004867	CDKPRINT_E_CANT_PRINT_ENVELOPES_CALCULATED	(No description.)
0x8007F404	2148004868	CDKPRINT_E_CANT_PRINT_LABELS_CALCULATED	(No description.)
0x8007F405	2148004869	CDKPRINT_E_CANT_PRINT_TO_FILE	(No description.)
0x8007F406	2148004870	CDKPRINT_E_GDI_FAILURE	(No description.)
0x8007F407	2148004871	CDKPRINT_E_DELIVERY_ADDRESS_TOO_WIDE	(No description.)
0x8007F408	2148004872	CDKPRINT_E_DELIVERY_ADDRESS_TOO_TALL	(No description.)
0x8007F409	2148004873	CDKPRINT_E_RETURN_ADDRESS_TOO_WIDE	(No description.)
0x8007F40A	2148004874	CDKPRINT_E_RETURN_ADDRESS_TOO_TALL	(No description.)
0x8007F40B	2148004875	CDKPRINT_E_INTERNAL_INDICIUM_TOO_WIDE	(No description.)
0x8007F40C	2148004876	CDKPRINT_E_INTERNAL_INDICIUM_TOO_TALL	(No description.)
0x8007F40D	2148004877	CDKPRINT_E_PRINTER_NOT_CONFIGURED	(No description.)

0x8007F40E	2148004878	CDKPRINT_E_ENGINE_NOT_INITIALIZED	(No description.)
0x8007F40F	2148004879	CDKPRINT_E_MUST_PRE_RENDER	(No description.)
0x8007F410	2148004880	CDKPRINT_E_GDI_RESOURCES_TOO_LOW	(No description.)
0x8007F412	2148004882	CDKPRINT_E_CANT_FIT_ITEMS_ON_PAGE	(No description.)
0x8007F413	2148004883	CDKPRINT_E_VALUE_NOT_SET	(No description.)
0x8007F414	2148004884	CDKPRINT_E_CANT_OPEN_TRANSACTION_LOG	(No description.)
0x8007F415	2148004885	CDKPRINT_E_CUSTOM_ENVELOPES_DISABLED	(No description.)
0x8007F416	2148004886	CDKPRINT_E_CUSTOM_ENVELOPES_DISABLED_FOR_PRINTER	(No description.)
0x8007F417	2148004887	CDKPRINT_E_PRINTER_ERROR	(No description.)
0x8007F418	2148004888	CDKPRINT_E_REQUIRED_TOKENS_MISSING	(No description.)
0x8007F419	2148004889	CDKPRINT_E_PRINTER_NOT_IN_DB	(No description.)
0x8007F41A	2148004890	CDKPRINT_E_RETURN_ADDRESS_TOO_BIG	(No description.)
0x8007F41B	2148004891	CDKPRINT_E_DELIVERY_ADDRESS_TOO_BIG	(No description.)
0x8007F41C	2148004892	CDKPRINT_E_INTERNAL_PRINT_ERROR	(No description.)
0x8007F41D	2148004893	CDKPRINT_E_SHIPPINGMEDIA_NOT_SUPPORTED	(No description.)
0x8007F41E	2148004894	CDKPRINT_E_INVALID_RATE	(No description.)
0x8007F41F	2148004895	CDKPRINT_E_MEMORY_ALLOCATE	(No description.)
0x8007F420	2148004896	CDKPRINT_E_HPL_MESSAGE_TOO_BIG	(No description.)
0x8007F421	2148004897	CDKPRINT_E_LOW_DISK_SPACE	(No description.)
0x8007F422	2148004898	CDKPRINT_E_INDICIUM_GRAPHIC_FILE_ERROR	(No description.)
0x8007F423	2148004899	CDKPRINT_E_INDICIUM_OPEN_GRAPHIC_FILE_ERROR	(No description.)
0x8007F424	2148004900	CDKPRINT_E_RETURNADDRESS_GRAPHIC_FILE_ERROR	(No description.)
0x8007F425	2148004901	CDKPRINT_E_RETURNADDRESS_OPEN_GRAPHIC_FILE_ERROR	(No description.)
0x8007F426	2148004902	CDKPRINT_E_FEDEX_2DBARCODE_TOO_WIDE	(No description.)
0x8007F427	2148004903	CDKPRINT_E_EXPRESS_MAIL_LABEL_NOT_SUPPORTED	(No description.)
0x8007F428	2148004904	CDKPRINT_E_NO_RECIPIENTS	(No description.)
0x8007F429	2148004905	CDKPRINT_E_PRINTER_ACCESS_DENIED	(No description.)
0x8007F42A	2148004906	CDKPRINT_E_PRINTER_INVALID_HANDLE	(No description.)
0x8007F42B	2148004907	CDKPRINT_E_INVALID_PRINTER_NAME	(No description.)
0x8007F42C	2148004908	CDKPRINT_E_PRINTER_SYSTEM_ERROR	(No description.)
0x8007F42D	2148004909	CDKPRINT_E_PRINTER_OFFLINE	(No description.)
0x8007F42E	2148004910	CDKPRINT_E_PRINTER_PAPER_PROBLEM	(No description.)
0x8007F42F	2148004911	CDKPRINT_E_PRINTER_UNKNOWN_ERROR	(No description.)
0x8007F430	2148004912	PRINT_ENGINE_INVALID_GRAPHICS_DATA	Expected a JPG, PNG, GIF, or BMP graphics data format.

10 Appendix D – Version Notes

The specifications in this document refer to the latest version of SWS/IM, Version 29 (V29). Care has been taken to ensure that integrators using earlier versions of the SWS/IM interface are not affected by new features that are added to SWS/IM over time. However, in rare cases, based on feedback from integrators or the United States Postal Service, it is necessary to change the underlying behavior of certain web methods from their behavior in earlier versions. An enumeration of such changes follows in this Appendix.

Note: For more information on new features available for SWS/IM or to suggest enhancements to SWS/IM, please contact your account representative.

10.1 <CustomsLine> Elements

From Version 1 to Version 5 of the SWS/IM interface, the following elements of the <CustomsLine> object are treated as per-item: Value, WeightLb, and WeightOz. As such, SWS/IM multiplies these values by the Quantity provided to produce the final result shown on the international label. For example, for these Versions, a Quantity of 2 items with a WeightOz of 9.0 and a Value of \$40 would be shown on the international label as having a weight of 1 lb 2 oz. and a value of \$80.

Based on integrator feedback, Versions 6 and higher of SWS/IM treat those same elements, when included in a <CustomsLine> object, as per-line. Using the example provided above, the same input values into Version 6 and higher would produce an international label with a customs line weight of 9 oz. and value of \$40. In Version 6 of SWS/IM this methodology applies to both international labels and customs forms produced for APO/FPO addresses.

Note that in ALL interfaces, the rated weight of the package is based on the WeightLb and WeightOz provided in the <Rate> object, not the WeightLb and WeightOz provided in the <CustomsLine> object. The <CustomsLine> object values are used for display purposes on the forms only.

10.2 ServiceType US-PP

From Version 26 US-PP is no longer supported as a service type and is replaced with US-PS (Parcel Select). For version 25 and below US-PP will be translated to a US-PS service type.

10.3 AddOn US-A-WDS

Waive Delivery Signature addon is deprecated from SWS/IM Version 26 onwards. This has been done in accordance with USPS requirement of making Signature requirement for Priority Mail Express the default option. Developer can use the new US-A-SR addon to indicate that Signature is required for delivery of an Priority Mail Express item. Signature required is the default for legacy interfaces upto Version 25.

11 Appendix E – Package Types and Mail Classes

This section aims to document the valid package type and mail class combinations. This is an initial and experimental presentation which could later be revised to be comprehensive.

11.1 US-PMI

The following package types are supported:

- Thick Envelope
- Large Envelope or Flat
- Flat Rate Box
- Package
- Small Flat Rate Box
- Large Flat Rate Box
- Flat Rate Envelope
- Large Package
- Oversized Package
- Legal Flat Rate Envelope

And below are not acceptable:

- Flat Rate Padded Envelope
- Regional Rate Box A
- Regional Rate Box B
- Regional Rate Box C
- Letter
- Postcard

11.2 US-CM

The following package types are supported:

- Letter

- Large Envelope or Flat

12Appendix F – E Del Con Support for International Mail

SWS API supports Delivery Confirmation (US-A-DC) provided by the USPS. This addon is only supported for the USPS approved combinations as listed below.

Country	US-PMI Small Flat Rate Box	US-PMI Flat Rate Envelope	US-PMI Flat Rate Padded Envelope	US-PMI Legal Flat Rate Envelope	US-FCI Package Thick Envelope Large Package
Canada	X	X	X	X	X

13 Appendix G – Best Practices to print on Certified Mail Forms

Certified Mail forms are generated in letter size (8.5x11) and are printed on *pre-printed* labels of the same size. Most consumer type printers (laser and ink jet) cannot print edge to edge. There is a unprintable margin around the paper. The printable area is smaller than the paper size. Also, the margins and printable area will vary from printer to printer (and driver to driver). In cases such as this, the full size image must either be scaled into the printable area or part of the image clipped.

Scaling the image into a unknown printable area with unknown margins would be a problem. Items would be incorrectly placed and content could be oddly scaled. The only option is to offset the image on the paper so the upper left of the image is at the top left of the paper. In addition, the image is printed un-scaled. This results in part of the image being clipped, the parts that are in the unprintable area of the printer.

The pre-printed certified labels have been designed with this in mind. The closest content is about 1/4" from the left/right edge. Top and bottom have about 1/2". To offset and clip should be fine.

14 Document Revision History

Date	Draft	Author	Changes
19 March 2008	2.0.13	G. Begen	SWS/IM reference adapted from SWS Shipping Label API version L.
29 September 2008	2.0.15	G. Begen	Updated error code list. Added note to Company name length.
03 November 2008	2.0.16	G. Begen	Updated add-on list with addition of US-A-ESH and removal of US-A-NDH.
06 April 2009	2.0.17	G. Begen	Updated WSDL in appendix B.
28 April 2009	2.0.17	S.Schaller	Removed USPS Bound Printed Matter from Section 5.5 Service Type. Removed US-BP from WSDL in Appendix B.
31 August 2009	2.0.18	Y. Lu	Updated the document to match swsim-v5.asmx.
10 September 2009	2.0.20	G. Begen	Added restrictions to CreateUnfundedIndicium, FundUnfundedIndicium, VoidUnfundedIndicium, and RegisterAccount web methods.
1 December 2009	2.0.21	Y. Lu	Updated the document to match SwsimV6.asmx.
2 December 2009	2.0.22	S.Schaller	Updated Patents under License section.
10 December 2009	2.0.23	B. Francini	Updated Version History.
09 June 2010	2.0.24	J. Kalinowski	Updated three expected error responses in Section 2.3 CancelIndicium web method per FogBugz 75478.
14 September 2010	2.0.25	G. Begen	Updated the document to match SwsImV9.asmx.
28 September 2010	2.0.26	G. Begen	Updated the document to match SwsImV10.asmx.
29 September 2010	2.0.27	S. Schaller	Updated Patents under License section.
2 November 2010	2.0.28	G. Begen	Updated the document to match SwsImV11.asmx
3 November 2010	2.0.29	G. Begen	Reworded awkward description of elements in the Rate object.
26 January 2011	2.0.30	Y. Lu	Updated the document to match SwsImV12.asmx
05 April 2011	2.0.31	Y. Lu	Updated the document to match SwsImV13.asmx
07 April 2011	2.0.32	Y. Lu	Updated error list
20 April 2011	2.0.33	Y. Lu	Updated the description of CleanseAddress.
20 April 2011	2.0.34	S. Schaller	Corrected typo in Section 4.6; Updated table of contents.
29 April 2011	2.0.35	S. Schaller	Updated Patents under License section.
2 May 2011	2.0.36	S. Schaller	Updated text in Patents under License section.
31 May 2011	2.0.37	P. Yoggi	Updated the document to match SwsImV14.asmx. Updated page references in document. Updated page number references in table of contents.
5 July 2011	2.0.38	P. Yoggi	Added new error codes and description of ZPL/EPL for NormalCN22 layout.
26 July 2011	2.0.39	P. Yoggi	Updated document to match SwsImV16.asmx.
13 Sept 2011	2.0.40	P. Yoggi	Updated document to match SwsImV17.asmx: <CreateIndicium> object. <Rate> object, PrintLayout description. <CleanseAddressResponse> object.
3 Oct 2011	2.0.41	P. Yoggi	Updated document to match SwsImV18.asmx: <CreateIndicium> object. <CreateScanForm> object, ShipDate description. Revised Appendix B. Added Appendix E.
8 Nov 2011	2.0.42	P. Yoggi	Revised 5.10 PackageType and Appendix C, adding new error codes.
7 Dec 2011	2.0.43	P. Yoggi	Revised section 4.4 <Address> object and 4.9 <Customs> object.
18 Jan 2012	2.0.44	P. Yoggi	Revised section 5.10 PackageType
1 Feb 2012	2.0.44	P. Yoggi	Revised Appendix B to have the latest interface version.

			This was missed in the Jan 18 th update.
7 March 2012	2.0.45	P.Yoggi	<p>Added section 2.27 – ChangePassword Added section 2.28 – CreateEnvelopeIndicum</p> <p>Modified section 3.10 – CreateIndicumResponse Added section 3.43 – ChangePassword Added section 3.44 – ChangePasswordResponse Added section 3.45 – CreateEnvelopeIndicum Added section 3.46 – CreateEnvelopeIndicumResponse</p> <p>Added section 5.17 – CreateIndicumMode</p> <p>Appendix B – SWS WSDL</p> <p>Appendix C – Error Codes</p>
4 April 2012	2.0.46	P.Yoggi	<p>Edits to sections:</p> <p>2.7 CreateIndicum Web Method 2.11 CreateUnfundedIndicum 3.3 <CancelIndicum> Object 3.9 <CreateIndicum> Object 3.15 <CreateUnfundedIndicum> Object 3.39 <TrackShipment> Object 3.46 <CreateEnvelopeIndicumResponse> Object 4.14 <Rate> Object</p> <p>Appendix C – Error Codes</p>
18 April 2012	2.0.47	P.Yoggi	<p>Added envelope layout descriptions to 4.14 <Rate> Object. Updated Appendix B to reference v22.</p>
5 June 2012	2.0.48	P.Yoggi	<p>Revised:</p> <p>Section 3.2 <AuthenticateUserResponse> Section 3.45 <CreateEnvelopeIndicum> Object Section 4.1 <AccountInfo> Object Appendix B – SWS WSDL Appendix C – Error Codes</p> <p>Additions:</p> <p>Section 5.18 NonDeliveryOption</p>
22 June 2012	2.0.49	A. Gallegos	<p>Edited sections</p> <p>Section 4.5 <Capabilities> Object Section 5.13 - ServiceType Appendix B – SWS WSDL Location Appendix C – Error Codes</p> <p>Additions:</p> <p>Appendix E Section 11.2 US-CM</p>
21 Aug 2012	2.0.50	Y. Lu	Added PrintLayouts for Critical Mail.
31 Oct 2012	2.0.51	Y. Lu	Updated document to match SwsimV25.asmx.

12 Dec 2012	2.0.51	P. Yoggi	Corrected the dimension from 6 1/18" to 6 1/8" for Large Envelope and Flat (section 5.10)
18 Jan 2013	2.0.52	P. Yoggi	<p>Edited sections</p> <p>2.7 CreateIndicium Web Method 4.14 <Rate> Object 5.3 AddOn Type 5.13 ServiceType Appendix B – SWS WSDL Location</p> <p>Additions:</p> <p>10.2 ServiceType US-PP 10.3 AddOn US-A-WDS 12 Appendix F - E Del Con support for International Mail</p>
23 Mar 2013	2.0.53	Y. Lu	<p>Upgraded to SWSIM V27:</p> <p>2.21 GetSupportedCountries Web Method 3.9 <CreateIndicium> Object - ReturnImageData 3.10 <CreateIndiciumResponse> Object - ImageData 3.31 <GetSupportedCountries> Object 3.32 <GetSupportedCountriesResponse> Object 4.7 <CountryInfo> Object 4.5 <Capabilities> Object - CanUseInvoicing 4.15 <Rate> Object - NormalCN22, NormalCP72, Normal4X6CN22, Normal6X4CN22, Normal4X6CP72, Normal6X4CP72, Normal75X2 8 Appendix B – SWS WSDL 9 Appendix C – Error Codes</p>
7 June 2013	2.0.54	Y. Lu	Added 13 13 Appendix G – Best Practices to print on Certified Mail Forms
13 June 2013	2.0.55	Y. Lu	<p>Upgraded to SWSIM V29:</p> <p>Deleted the following sections:</p> <p>3.13 <CreateTestIndicium> Object. 3.14 <CreateTestIndiciumResponse> Object.</p> <p>Updated the following sections:</p> <p>2.11 CreateTestIndicium Web Method. Added comments about removing this method. 3.9 <CreateIndicium> Object. Added RedirectTo. 3.9 <CreateIndicium> Object. Updated SampleOnly option. 4.5 <Capabilities> Object. Added CanUseCertifiedMail and CanPrintAllIndiciumValues. 4.15 <Rate> Object. Added Certified Mail layout SDC3610, SDC3710, SDC3810 and SDC3910. 5.3 AddOnType. Added Electroic Return Receipt. 5.6 ContentType. Added Merchandise, Humanitarian Donation and Dangerous Goods. 5.13 ServiceType. Added USPS Library Mail. 5.18 NonDeliveryOption. Added Redirect.</p> <p>Updated all XML namespace in sample code to http://stamps.com/xml/namespace/2013/05/swsim/swsimv29.</p>
27 June 2013	2.0.56	B. Francini	Updated references of Express Mail to Priority Mail Express to reflect updated product naming.

