



Export Compliance Customs Data Requirements

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**USPS International Operations
Global Trade Compliance**

Version Control

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1 Introduction

Due to federal export regulations, the United States Postal Service (USPS or Postal Service) currently requires electronic customs information on all mail items that bear a customs declaration, in order to facilitate federal oversight. This applies to items mailed to overseas military and diplomatic Post Office addresses, and non-military U.S. Possessions, Territories, and Freely Associated States, as well as to international mail.

1.1 Background

The Department of State, the Treasury Department's Office of Foreign Assets Control (OFAC), and the Commerce Department's Bureau of Industry and Security (BIS) maintain regulations that, among other things, prohibit certain goods from being sent to persons, entities, or countries determined to be adverse to U.S. interests. These agencies implement sanctions imposed by Congress, the President, and the United Nations. U.S. Customs and Border Protection (CBP), OFAC, and BIS enforce these export controls with respect to all shipments leaving the country, whether by mail or by private carrier. Shippers and mailers are responsible for compliance with export controls, and they can be subject to civil and criminal penalties for any violations.

The Postal Service screens certain outbound international mail items for potential violations of federal export laws. In order to ensure that all international mail has been properly screened for export control laws and regulations, it is essential that the Postal Service receive electronic customs data from mailers.

1.2 Purpose

The purpose of this document is to consolidate the business requirements for EMI, PMI and FCPIS item-level customs data, as well as receptacle pre-advice data. Mailers who provide mailer-prepared International Priority Airmail (IPA), International Surface Air Lift (ISAL), or Commercial ePacket receptacles must provide receptacle pre-advice data and the item-level customs data for all associated items that have customs forms. All customs pre-advice generating system owners are required to enable the proper transmission of customs data to meet these requirements.

1.3 Impact on Non-Compliance

1.3.1 Delay or return of mail

If a processing error occurs and a shipper or mailer does not provide the required electronic information prior to the shipment arriving at a Postal Service facility, the mail will be delayed, reviewed for export compliance, and possibly held for further inspection or returned to mailer due to insufficient information.

1.3.2 Mail refusal

If a shipper or consolidator continues to provide incorrect electronic information or no information at all, that mailer will be subject to mail refusal at a Postal Service acceptance facility.

2 Item-Level Customs Data Requirements

Item-level customs data includes shipment details for an individual package, such as sender, recipient, and content descriptions.

2.1 Submission Guidelines

System owners must submit item-level customs data to USPS under the following guidelines:

- Customs data must be submitted to USPS upon creation no less than 2 hours before the shipment is inducted at a USPS facility.
- Manifest-generating system owners are responsible for submitting their own and downstream systems' electronic data before close of business each day, if any open manifests have not yet been submitted.
- Electronic customs data can be submitted via the latest Shipping Services file format (see Publication 199 for specification of the Shipping Services file format). Other means include USPS tools, such as Customs Form Online and Webtools API, and USPS approved PC Postage vendor. Any other means must be certified by USPS (e.g., XML file) and meet data requirements covered in this document.
- Customs data updates are allowed by denoting the submission as an "Updated" record.
 - For example, customs data with non-prepaid postage must still be submitted at the time the customs data is created. Upon postage payment, the customs data record must be updated with postage fees.
- Customs data can be cancelled by denoting the submission as a "Cancelled" record.
- Customs data receipt/load acknowledgement verification will be transmitted to systems submitting customs data to USPS. File loading issues must be addressed by originating systems prior to the shipment arriving at a Postal Service facility.
 - Manifest Transmitting Systems must be able to receive file acknowledgement and error messages from USPS.
- All electronic transmissions must be secure (See Appendix E). Non-secure transmissions (e.g., FTP) are no longer allowed.

2.1.1 Interline Translation

Manifesting systems shall be required to accept, store, and transmit the data elements of the recipient's address (C.4.8 and C.4.9 in Section 2.5) in non-Roman characters (e.g., Mandarin). At a future date, manifesting systems may be required to perform the translation of these fields into non-Roman characters for specific countries (e.g., mail sent to China).

2.2 Data Quality Guidelines

Item-level customs data must correctly represent its corresponding reference information and meet the following guidelines.

- Customs data must match the label information on the package in all cases.
- Mailers cannot use shipper profile information to populate the sender information in electronic customs data if user profile information is different from the actual sender.

- All customs data fields must be validated per the Data Field Requirements section.
- The fields defined in the Data Field Requirements section must be transmitted as distinct data elements (e.g., First Name and Last Name must be transmitted as separate fields and not merged in one data element when transmitted to USPS).
- All numerical values (i.e., weight, quantity, value) must be entered as non-negative numbers.
- All value fields must be in US dollars (\$).
- All files must be transmitted using UTF-8 valid character set for XML, and character set ISO-8859 for flat files.
- The following characters are invalid:
 - tab ('\t'), new line ('\n') and carriage return ('\r')

2.3 Customs Barcode Compliance

USPS links item level customs data to customs barcodes. The export compliance screening status for an item is assigned to the customs barcode. Improper customs barcode generation can cause delays in mail processing.

- Customs label barcodes must be:
 - Derived from a mailer's assigned range.
 - Unique for at least 365 days per Universal Postal Union requirements (UPU).
 - Compliant with Code 128 symbology and UPU S10 standards.
 - A fixed length of 13 characters, except for APO/DPO and FPO mail, which may be 34 characters.

2.3.1 Barcode Structure

- Barcode numbers have four components, shown in Table 1. The result has a fixed length of 13 characters.

Table 1: 13 Character Barcode Components

Character No	Data Format	Component
1 and 2	AN(2)	Service Indicator – 2 character Service Type Code eg “LM”
3 to 10	N(8)	Package Sequence Number – the National Customer Support Center (NCSC) assigns blocks of 8 digit sequential package identifiers after the customs form, barcode and customs data transmission are validated
11	N(1)	Check digit – calculated in accordance with the algorithm found in section <i>Modulus 11 Weighted Check Digit Formula</i> of the ISSN Manual (http://www.loc.gov/issn/check.html)
12 and 13	AN(2)	Country code – Customs forms on international mail pieces originating in the United States carry the code “US”

The sequence of the barcode should be as follows:

Start – Code Set B

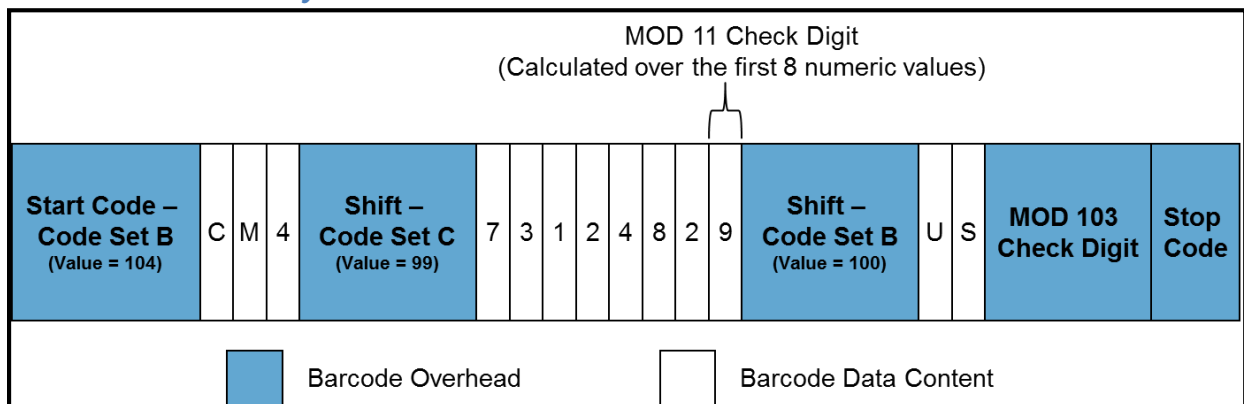
- Alphabetic character – “C”
- Alphabetic character – “M”
 - Note: The first two characters are dependent on product type
- First digit of 8-digit Package Sequence Number – assigned by NCSC

Shift – Code Set C

- Remaining 7 digits of Package Sequence Number – assigned by NCSC
- MOD 11 Check Digit

Shift – Code Set B

- Alphabetic character – “U”
- Alphabetic character – “S”

Mod 103 Check Digit**Stop Code****Exhibit 1: Barcode Syntax****MODULUS 11 WEIGHTED CHECK DIGIT FORMULA:**

- Multiply the digits in the Package Sequence Number by the weighting factors 8 6 4 2 3 5 9 7 (i.e., multiply the first digit by 8, the second by 6 and so on)
- Calculate the sum of the weighted values
- Divide the sum by 11
- Subtract the remainder from 11
- If the result falls within the range 1 to 9, use the result as the check digit
- If the result is 10, use 0 as the check digit
- If the result is 11, use 5 as the check digit

Table 2: Example calculation for a barcode with the Package Sequence Number 47312482

<i>Number</i>	4	7	3	1	2	4	8	2
<i>Weighting factors</i>	x8	x6	x4	x2	x3	x5	x9	x7
<i>Weighted values</i>	32	42	12	2	6	20	72	14
<i>Sum of weighted values</i>	32 +	42 +	12 +	2 +	6 +	20 +	72 +	14 + = 200

200 divided by 11 = 18 with a remainder of 2
11 minus 2 = 9; the check digit is therefore 9
Complete self-checking number: 473124829

Barcode Examples

The following three S10 barcodes are included as options.

S10 Barcodes in various structures using subset B (Alphanumeric) and subset C (numeric only)

Last 8 in numeric in subset C

CM33333335US

[SUBSET B] CM3 [SUBSET C] 33333335 [SUBSET B] US



First 8 numeric in subset C

CM33333335US

[SUBSET B] CM [SUBSET C] 33333333 [SUBSET B] 5US



No subset C

CM33333335US

[SUBSET B] CM33333335US



2.4 Paper Customs Forms

2.4.1 Single Ply Label

USPS will be offering a single ply customs form option when using online customs declaration systems (Click-N-Ship, Click-N-Ship for Business, GSS and Webtools, etc) for items sent to applicable countries.

If the option is available, customers will fill in their appropriate customs data online, but only need to affix a single sheet of paper to their package instead of four sheets in a plastic envelope.

2.4.2 Harmonized Label

Harmonized label physical specifications can be found in a separate document that will be posted to RIBBS.

2.5 Data Field Requirements

Mailers should refer to the tables in this section for item-level customs data field requirements. The key below should be used as a guide when reviewing the field requirements. Non-compliance with these requirements may result in file load failures and cause potential delays in mail processing.

PLEASE NOTE - If using the Shipping Services File, please follow the Shipping Service File specifications here: https://ribbs.usps.gov/intelligentmail_package/documents/tech_guides/PUB199IMPBImpGuide.pdf.

Required Field Key
R = Required
RI - Substitution requirement – see “Other Validation” column for more details (e.g. Sender First/Last Name or Business Name, Recipient City or State/Providence)
D – Dependent. Required, depending on other fields or conditions. The categorization of data as Dependent (D) does not imply that it is optional (O). Data should be supplied if it is conditions stated in the Dependency field are met.
O = Optional

Field Length/Format Key
All fields have a maximum length. The minimum for required (R) fields is one character.
AN – Alphanumeric. Only numbers (0-9) and basic Latin letters (A-Z) are allowed.
N – Numeric. Only numbers (0-9) and a decimal point (when specified) are allowed. If a Numeric field is represented by N(7,2), the maximum number of digits allowed is 9 with 7 being the maximum number of digits allowed before the decimal point and 2 being the maximum number of digits allowed after the decimal point.
VAR – UTF-8 (1,024 characters) for XML files, and ISO-8859-1 (256 characters) for ASCII text files.
DATETIME – Unless otherwise specified, dates should be expressed in modified UTC form: ccyyymmddhhmmsszzzppoooo where ccyy represents the four digit year, mmdd the two digit month and day within the month, hh, mm, ss and zzz represent hours (based on a 24 hour clock), minutes, seconds and decimal parts of seconds elapsed since the start of the day concerned, oooo represents the local time offset from UTC in hours and minutes and p is either a full stop '.' if the offset is positive or a minus sign '-' if it is negative (see note 1). This introductory character and the offset may be omitted if there is no requirement to specify the local time zone (see note 2), that is if knowledge of the time offset is considered immaterial at applications level or the recipient can be expected to have the necessary knowledge. If lower precision is required, components other than the offset may be truncated from the right.
<i>EXAMPLE</i>

- 2002 represents any date within year 2002 (it is assumed that the local time offset is known or immaterial);
 - 200208 represents any date within August 2002 (local time offset known or immaterial);
 - 20020823 represents local date 23rd August 2002 (the recipient is assumed to know the time zone and offset);
 - 20020823.0000 represents the GMT date 23rd August 2002;
 - 20020823-0500 represents the date 23rd August 2002 in a time zone which is 5 hours behind GMT;
 - 20020823.0500 represents the date 23rd August 2002 in a time zone which is 5 hours ahead of GMT;
 - 2002082314.0000 represents any date between 14:00 and 15:00 GMT on 23rd August 2002;
 - 200208230427503 represents local time of between 50,3 and 50,4 seconds after 04:27 on 23rd August 2002;
 - 20020823042750327.0500 represents local time of between 50,327 and 50,328 seconds after 04:27 on the same date and further specifies that this is five hours ahead of GMT (that is, the equivalent GMT date would be 20020822232750327.0000).

- Note 1 - Normal UTC form is ccyymmddThh:mm:ss.zzz+0000, i.e. with letter "T" in front of the time; with colons to separate hours from minutes from seconds and with either plus or minus, in place of full stop or minus, in front of the offset. The modification has been made to ensure that values can be directly represented in EDIFACT DTM segments. Note that with positive offsets (local time ahead of UTC), the offset value must be subtracted from the given local time in order to obtain a GMT time, whilst for negative offsets, it must be added.
- Note 2 - Thus, a time without an offset is to be interpreted as local time. If it is desired to explicitly represent UTC time, this should be done by specifying time offset 0000.

ID	Field	Condition	Length/Format Validations	Other Validations	Dependency	Comments
A	GENERAL					
A.1	Customs Status	R	MIN: VAR(1) MAX: VAR(1)	Check at least one: New Updated Cancelled	Required to indicate if a manifest is updated with postage or other fields.	New – First time a mailer submits information for an item ID within 365 days.- Updated - Any subsequent submissions for the same item ID within 365 days.- Cancelled – A record that was submitted in error. Only for non-SSF users
A.2	Mailing Date	R	DATETIME	Reference format key. Minimum precision required: ccyymmdd and GMT offset.		Includes the date of the electronic data transmission to USPS.
A.3	Scheduled Delivery Date	D	DATETIME	Reference format key. Minimum precision required: ccyymmdd and GMT offset.	Required for Express or KPG destined countries.	KPG countries include: GB, HK, CN, CA, FR, KR, JP, SG, ES and AU. Only for non-SSF users
A.4	Customs Label Barcode Number	R	MIN: AN(13) MAX: AN(34)	Mailer Assigned Range from USPS. Validation must comply with Section 2.1 and 2.2.	Required for all items with reported customs data. SS v2.0 PME1 - number could be the same as the Tracking Number.	Derived from USPS mailer assigned range. Barcode from PS Form 2976, 2976A or 2976B forms.

ID	Field	Condition	Length/Format Validations	Other Validations	Dependency	Comments
A.5	Source Application	D	MIN: N(1) MAX: N(3)	Must be approved source application ID provided by USPS.	Systems sending manifests to EMCDB directly must include this field.	
A.6	File Version Number	R	MIN: VAR (1) MAX: VAR (10)	See Appendix D – the EMCDB XML format that reflects the requirements in this document is version “2.0”.		Note – Shipping Services File (SSF) users should follow SSF file version number format.
A.7	Mailer ID	R	MIN: N(9) MAX: N(9)			USPS to assign mailer IDs to all source systems.
A.8	Mailer Permit Number	D	MIN: N(10) MAX: N(10)	Leading zeroes required. Numeric values (0-9) only. If using stamps, meter, Bill Me Later, or PC Postage, then fill with zeroes.	SS v2.0 - This field required if using Permit imprint or Federal Agency Number.	SS v2.0 - Payment Account Number
A.9	AES/ITN/Exemption	D	MIN: VAR(0) MAX: VAR(50)	See Appendix A for validations and field formats	For an overview of requirements, rules and examples See Pub 699 http://about.usps.com/publications/pub699.pdf or IMM 520: http://pe.usps.com/cpim/ftp/manuals/Imm/immc5.pdf	Enter the applicable Automated Export System (AES) Internal Transaction Number (ITN), AES Downtime Citation, or AES Exemption. Field validated if provided.
A.10	Mail Handling Method	O	MIN: VAR(0) MAX: VAR(1)	Check one: Airmail(1) or Surface (2)		
B	SENDER INFORMATION					
B.1.1	First Name	RI	MIN: VAR(2) MAX: VAR(49)	Either First Name and Last Name or Business/Company Name is required. Must be a valid, full legal name (e.g., Not Entered, Any Service Member or NA are unacceptable). If First name is only two characters long, special characters or numbers may not be used.		Enter either the sender’s full name or business name.
B.1.2	Last Name	RI	MIN: VAR(2) MAX: VAR(75)	If Sender has no last name, enter “No Last Name”.		

ID	Field	Condition	Length/Format Validations	Other Validations	Dependency	Comments
B.1.3	Middle Initial	O	MIN: VAR(0) MAX: VAR(1)			
B.1.4	Business/ Company Name	RI	MIN: VAR(2) MAX: VAR(100)			
B.2	Phone Number	O	MIN: VAR(0) MAX: VAR(24)	International telephone or fax number: optional (recommended) plus, then digits, spaces, p and/or x Pattern: [+]{0,1} [\d\.\\-\\s\\(\)px]{1,24}		Enter sender's phone number or email address.
B.3	Email	O	MIN: VAR(0) MAX: VAR(50)	No spaces, single @ character. Pattern: [A-Za-z0-9!#\$%'+/=/?^_`{}~-]+(\.[A-Za-z0-9!#\$%'+/=/?^_`{}~-]+){0,}\@[A-Za-z0-9!#\$%'+/=/?^_`{}~-]+(\.[A-Za-z0-9!#\$%'+/=/?^_`{}~-]+){1,3}"		
B.4.1	Street Address Line 1	R	MIN: VAR(1) MAX: VAR(50)			
B.4.2	Street Address Line 2	O	MIN: VAR(0) MAX: VAR(50)			Sender's street address line 2
B.4.3	Street Address Line 3	O	MIN: VAR(0) MAX: VAR(50)			Sender's street address line 3
B.4.4	City	R	MIN: VAR(1) MAX: VAR(50)			Enter the sender's city.

ID	Field	Condition	Length/Format Validations	Other Validations	Dependency	Comments
B.4.5	State	R	MIN: AN(2) MAX: AN(2)	Possible State Validation		<p>Enter the sender's state. For APO/FPO Mail, use the following categories based on beginning ZIP Codes to populate:</p> <p>EUROPE / ATLANTIC (ZIP 090–092, 094–099): use 'AE'</p> <p>IRAQ/AFGHANISTAN/ MIDDLE EAST (ZIP 093): use 'AE'</p> <p>JAPAN / KOREA / PACIFIC ISLANDS / FAR EAST (ZIP 962–966): use 'AP'</p> <p>CENTRAL AMERICA / SOUTH AMERICA / CARIBBEAN (ZIP 340): use 'AA'</p>
B.4.6	Postcode (ZIP)	R	MIN: N(5) MAX: N(5)			Enter the sender's 5-digit ZIP Code or ZIP+4.
B.4.7	ZIP +4	O	MIN: N(0) MAX: N(4)	Field must be Null or populated with 4 numbers		Destination Delivery Point – 11-digit Delivery Point ZIP Code.
B.4.8	Sender Delivery Point Code	O	MIN: N(0) MAX: N(2)			
B.4.9	Country	R	MIN: AN(2) MAX: AN(2)	2 character ISO Code		Enter the sender's country code.
C	ADDRESSEE INFORMATION					
C.1.1	First Name	RI				

ID	Field	Condition	Length/Format Validations	Other Validations	Dependency	Comments
			MIN: VARN(2) MAX: VAR(49)	Either First Name and Last Name or Business/Company Name is required. Must be a valid, full legal name (e.g., Not Entered, Any Service Member or NA are unacceptable). If First name is only two characters long, special characters or numbers may not be used.		Enter either the addressee's full name or business name.
C.1.2	Last Name	RI	MIN: VAR(2) MAX: VAR(75)	If Sender has no last name, enter "No Last Name".		
C.1.3	Middle Initial	O	MIN:VAR(0) MAX: VAR(1)			
C.1.4	Business/ Company Name	RI	MIN: VAR(2) MAX: VAR(100)			
C.2	Phone Number	O	MIN: VAR(0) MAX: VAR(24)	International telephone or fax number: optional (recommended) plus, then digits, spaces, p and/or x Pattern: [+]{0,1}{\d\.\-\}\s\(\)\px}{1,24}		Enter addressee's phone number and/or email address. Field validated if provided.
C.3	Email	O	MIN: VAR(0) MAX: VAR(50)	No spaces, single @ character. Pattern: [A-Za-z0-9!#\$%'+/=/?^_`{}~-]+\.\.[A-Za-z0-9!#\$%'+/=/?^_`{}~-]{0,}\@[A-Za-z0-9!#\$%'+/=/?^_`{}~-]+\.\.[A-Za-z0-9!#\$%'+/=/?^_`{}~-]{1,3}"		
C.4.1	Street Address Line 1	R	MIN: VAR(1) MAX: VAR(50)			Enter the addressee's street address. Addressee's street address line 1

ID	Field	Condition	Length/Format Validations	Other Validations	Dependency	Comments
C.4.2	Street Address Line 2	O	MIN: VAR(0) MAX: VAR(50)			Addressee's street address line 2
C.4.3	Street Address Line 3	O	MIN: VAR(0) MAX: VAR(50)			Addressee's street address line 3
C.4.4	Postcode	O	MIN: VAR(0) MAX: VAR(25)	Pattern: [A-Z]{2,3} [A-Z]{5}[A-Z0-9]{0,1} [A-Z]{2}-[A-Z0-9]{4,22} [AZ]{2}\.[A-Z]{2,23} [A-Z][A-Z0-9]{6,24}		Enter the addressee's postcode. Postcode required unless the country doesn't use postcodes.
C.4.5	City	RI	MIN:VAR(1) MAX: VAR(50)	Either City or State/Province is required to be populated.		Enter the addressee's city, state, or both, if known. For APO/FPO Mail, use the following categories based on beginning ZIP Codes to populate: EUROPE / ATLANTIC (ZIP 090–092, 094–099): use 'AE' IRAQ/AFGHANISTAN/ MIDDLE EAST (ZIP 093): use 'AE' JAPAN / KOREA / PACIFIC ISLANDS / FAR EAST (ZIP 962–966): use 'AP' CENTRAL AMERICA / SOUTH AMERICA / CARIBBEAN (ZIP 340): use 'AA'
C.4.6	State/ Province	RI	MIN: VAR(1) MAX: VAR(40)			
C.4.7	Country	R	MIN:AN(2) MAX: AN(2)	2 character ISO Code		Enter the addressee's country.
C.4.8	Interline Translation 1	O	MIN:VAR(0) MAX:VAR(50)			Enter translation of C.4.1 to a language that uses Non-Roman characters (i.e. Mandarin, Cyrillic, Arabic, etc.) Only for non-SSF users
C.4.9	Interline Translation 2	O	MIN:VAR(0) MAX:VAR(50)			Enter translation of C.4.4 to a language that uses Non-

ID	Field	Condition	Length/Format Validations	Other Validations	Dependency	Comments
						Roman characters (i.e. Russian, Arabic, Mandarin, etc.) Only for non-SSF users
D	PACKAGE CONTENT INFORMATION					
D.1 Per Item						This section must be included at least once and may be repeated for up to 999 items.
D.1.1	Detailed Description of Contents	R	MIN: VAR(1) MAX: VAR(256)			Enter a detailed description of each article. General descriptions (e.g., "samples", "food products," or "toiletries") are not acceptable. If there is insufficient space on paper customs forms, use the continuation pages as needed.
D.1.2	Quantity	R	MIN: N(1) MAX: N(6)			Enter the quantity of each item.
D.1.3	Item weight (Lbs)	O	MIN: N(0) MAX: N(2)	Integer values only. If full weight is captured by lb field, oz field must be populated by zeroes.		Enter the net weight in pounds and ounces of each article. Use zeros to specify full weight. For example, if an item weighs exactly 2lbs, enter 2 lbs 0 oz.
D.1.4	Item weight (Oz)	O	MIN: N(0) MAX: N(2)	Oz < 16. Integer values only. If full weight is captured by oz field, lb field must be populated by zeroes.		
D.1.5	Item Value (US \$)	O	MIN: N(0) MAX: N(7,2)	Two decimal places required. Value must be > 0.00.		Enter the value per item in U.S. dollars in the form: 0.00.
D.1.6	HS Tariff Number	O	MIN: VAR(0) MAX: VAR(12)	Pattern:[A-Z]{2}[0-9]{4,10} [0-9]{4,12}. No		

ID	Field	Condition	Length/Format Validations	Other Validations	Dependency	Comments
				special characters or spaces allowed.		
.1.7	Country of Origin of Goods	O	MIN: VAR(0) MAX: VAR(2)	2 character ISO code		Enter, if known, the "Country of Origin" where the goods originated – i.e. where they were produced/ manufactured or assembled.
D.2 Per Package						
D.2.1	Total Gross Weight (Lbs)	R	MIN: VAR(1) MAX: VAR(2)	Oz <16. Integer values only		Enter the total weight of the package in pounds and ounces, including packaging, which corresponds to the weight used to calculate postage. Use zeros to specify full weight. For example, if an item weighs exactly 2lbs, enter 2 lbs 0 oz.
D.2.2	Total Gross Weight (oz)	R	MIN: VAR(1) MAX: VAR(2)			
D.2.3	Total Quantity	R	MIN: N(1) MAX: N(6)			Enter the total quantity of articles in the package.
D.2.4	Total Value (US \$)	R	MIN: N(0,2) MAX: N(7,2)	2 decimal places required.		Enter the total value per package U.S. dollars in the form: 0.00. NULL is not acceptable
E	RESTRICTIONS					
E.1	Restriction Type	D	MIN: VAR(0) MAX: VAR(1)	Enter One if Necessary: Quarantine(1) Sanitary / Phytosanitary(2) Other (3)	Field is dependent on if there is a restriction	

ID	Field	Condition	Length/Format Validations	Other Validations	Dependency	Comments
E.2	Restriction Comments	D	MIN: VAR(0) MAX: VAR(25)		Field cannot be blank if a restriction type Other (3) is selected	Provide comments if the contents are subject to other restrictions.
F	PACKAGE CONTENT TYPE / CATEGORY					
F.1	Content Type	R	MIN: VAR(1) MAX: VAR(15)	<p>Enter At Least One: Merchandise (1) Gift (2) Documents (3) Commercial Sample (4) Returned Goods (5) Humanitarian Donation (6) Dangerous Goods (7) Other (8)</p> <p>Manifesting systems should separate multiple entries by comma. For example: 2,4,8</p>		<p>Check the box or boxes specifying the category of categories of the items in a package. If the shipment contains dangerous goods that are approved for mailing, check the box for "Dangerous Goods" and any other applicable boxes.</p> <p>If the "Other" category is selected, a descriptor is required. An example of "Other" may be when an item is being returned to the owner because it was misplaced or lost.</p>
F.2	Content Comments	D	MIN: VAR(1) MAX: VAR(25)		Field cannot be blank if [Other] is marked.	Enter a description if [Other] is checked
G	CUSTOMS INFORMATION					
G.1	Exporter Reference Type	D	MIN: VAR(0) MAX: VAR(1)	Enter One: Tax Code (1) VAT Number (2) Exporter Code (3)	If the Exporter's Reference field is populated, then Exporter Reference Type is mandatory	Only for non-SSF users
G.2	Exporter's Reference	O	MIN: VAR(0) MAX: VAR(30)		May be required by destination country	<p>Also known as a Sender's Customs Reference. Enter Exporter's Reference, if applicable. This may be the tax code, exporter code or VAT number used for sales tax.</p> <p>Only for non-SSF users</p>
G.3	Exporter's Phone Number	D	MIN: VAR(0) MAX: VAR(24)	International telephone or fax number: optional (recommended) plus, then	Required if known and if Exporter's	Enter, if known, the exporter's telephone number.

ID	Field	Condition	Length/Format Validations	Other Validations	Dependency	Comments
				digits, spaces, p and/or x Pattern: [+]{0,1}[\d\.\-\s\(\)\px]{1,24}	reference has been populated	Only for non-SSF users
G.4	Exporter's Email	D	MIN: VAR(0) MAX: VAR(50)	No spaces, single @ character. Pattern: [A-Za-z0-9!#\$%'+/=/?^_`{}~-\+]{0,}\.[A-Za-z0-9!#\$%'+/=/?^_`{}~-\+]{0,}\@[A-Za-z0-9!#\$%'+/=/?^_`{}~-\+]{0,}\.[A-Za-z0-9!#\$%'+/=/?^_`{}~-\+]{1,3}"	Required if known and if exporter's reference has been populated	Enter, if known, the exporter's email address. Only for non-SSF users
G.5	Importer Reference Type	D	MIN: VAR(0) MAX: VAR(1)	Enter One: Tax Code (1) VAT Number (2) Importer Code (3)	If the Importer's Reference field is populated, then Importer Reference Type is mandatory	
G.6	Importer's Reference	D	MIN: VAR(0) MAX:VAR(30)		May be required by destination country	Enter Importer's Reference, if applicable. This may be the tax code, importer code or VAT number used for sales tax.
G.7	Importer's Phone Number	D	MIN: VAR(0) MAX: VAR(24)	International telephone or fax number: optional (recommended) plus, then digits, spaces, p and/or x Pattern: [+]{0,1}[\d\.\-\s\(\)\px]{1,24}	Required if known and if Importer's reference has been populated	Enter, if known, the Importer's telephone number.
G.8	Importer's Email	D	MIN: VAR(0) MAX: VAR(50)	No spaces, single @ character. Pattern: [A-Za-z0-9!#\$%'+/=/?^_`{}~-\+]{0,}\.[A-Za-z0-9!#\$%'+/=/?^_`{}~-\+]{0,}\@[A-Za-z0-9!#\$%'+/=/?^_`{}~-\+]{0,}\.[A-Za-z0-9!#\$%'+/=/?^_`{}~-\+]{1,3}"	Required if known and if Importer's reference has been populated	Enter, if known, the Importer's email address.
G.9	License Number	O	MIN: VAR(0) MAX:VAR(16)		Recommended if known.	Enter if applicable.
G.10	Certificate Number	O	MIN: VAR(0) MAX: VAR(12)		Recommended if known.	Enter if applicable.
G.11	Invoice Number	O	MIN: N(0) MAX: VAR(15)		Recommended if known.	Enter if applicable.

ID	Field	Condition	Length/Format Validations	Other Validations	Dependency	Comments
G.12	Insurance Fees	O	MIN: N(0) MAX: N(5,2)	2 decimal places required if provided Value must be > 0.00		Should take the form: 0.00. NULL is allowed. Only for non-SSF users
G.13	Insured Number	O	MIN: VAR(0) MAX: VAR(13)			
G.14	Insured Amount	D	MIN: N(0) MAX: N(5,2)	2 decimal places required if provided Value must be > 0.00	Required if insured.	Enter the insured amount in U.S. dollars in the form: 0.00. NULL is allowed.
G.15	Special Drawing Right (SDR) Value	O	MIN: N(0) MAX: N(3,4)			Enter Special Drawing Rights if applicable. Field validated if provided. See link below for additional details: http://about.usps.com/postal-bulletin/2012/pb22349/html/updt_004.htm
G.16	Total Postage and Fees	D	MIN: VAR(0) MAX: N(7,2)	2 decimal places required if provided Value must be > 0.00	Required upon postage paid. For certain non-prepaid postage manifests, manifests may require resubmission. See Customs Status field	Enter the postage and fees in U.S. dollars in the form: 0.00. NULL is allowed
G.17	Sender's Signature	O	MIN: VAR(0) MAX: VAR(125)	An electronic or handwritten signature is required. This must be an individual's name, not a business name. If this field is not populated in the data, then a handwritten signature must be present on the customs form.		The sender is instructed to sign and date the form to certify that all entries are correct and the items being mailed contain no undeclared dangerous, prohibited, or restricted content per postal, customs, or destination country regulations. The signature also certifies compliance with all applicable federal export licensing and filing requirements and confirms liability for the items being mailed. Electronic signature on file is not acceptable
G.18	Signature Date	R	DATE			Only for non-SSF users
G.19	Length (L)	O	MIN: N(0) MAX: N(3)	Dimensions should be in inches rounded to the nearest inch.		The maximum size dimensions for Priority Mail International parcels vary by

ID	Field	Condition	Length/Format Validations	Other Validations	Dependency	Comments
G.20	Width (W)	O	MIN: N(0) MAX: N(3)	Dimensions should be in inches rounded to the nearest inch.		country and are noted in the Individual Country Listings.
G.21	Height (H)	O	MIN: N(0) MAX: N(3)	Dimensions should be in inches rounded to the nearest inch.		http://pe.usps.gov/text/imm/ab_001.htm
H	Redirection Block					
H.1	Sender instructions in case of non-delivery	O	MIN: VAR(0) MAX: VAR(1)	Enter One: Treat as Abandoned (1) Return to Sender (2) Redirect to Address (3)		Enter instructions in case of non-delivery. Items returned to sender are subject to return charges at the sender's expense.
H.2	Redirect First Name	RI	MIN: VAR(2) MAX: VAR(49)	Either Redirect First Name and Last Name or Redirect Business/Company Name is required. Must be a valid, full legal name (e.g., Not Entered, Any Service Member or NA are unacceptable). If Sender has no last name, enter "No Redirect Last Name".		Enter either the addressee's full name or business name. SSF combine these fields Redirect Business/Company name is only for non-SSF users
H.3	Redirect Last Name	RI	MIN: VAR(2) MAX: VAR(75)			
H.4	Redirect Middle Initial	O	MIN: VAR(0) MAX: VAR(1)			
H.5	Redirect Business/Company Name	RI	MIN: VAR(2) MAX: VAR(100)			
H.6	Redirect E-Mail	O	MIN: VAR(0) MAX: VAR(50)	No spaces, single @ character Pattern: [A-Za-z0-9!#\$%'+/=?^_`{}~-\.]{1,3}@[A-Za-z0-9!#\$%'+/=?^_`{}~-\.]{1,3}		
H.7	Redirect Number	O	MIN: VAR(0) MAX: VAR(24)	International telephone or fax number: optional (recommended) plus, then digits, spaces, p and/or x Pattern: [+]{0,1}[\d\.\-\s\(\)\px]{1,24}		
H.8	Redirect Street Address Line 1	D	MIN: VAR(1) MAX: VAR(50)		Required if Sender Instruction in	Enter the Redirect street address.

ID	Field	Condition	Length/Format Validations	Other Validations	Dependency	Comments
					H.1 is 'Redirect to Address'	SSF can combine these
H.9	Redirect Street Address Line 2	O	MIN: VAR(0) MAX: VAR(50)			
H.10	Redirect Street Address Line 3	O	MIN: VAR(0) MAX: VAR(50)			
H.11	Redirect City	D	MIN: VAR(0) MAX: VAR(28)		Required if Sender Instruction in H.1 is 'Redirect to Address'	
H.12	Redirect State	D	MIN: VAR(0) MAX: VAR(2)		Required if Sender Instruction in H.1 is 'Redirect to Address'	
H.13	Redirect ZIP Code	D	MIN: VAR(0) MAX: VAR(5)		Required if Sender Instruction in H.1 is 'Redirect to Address'	
H.14	Redirect ZIP +4	O	MIN: VAR(0) MAX: VAR(4)			

3 Mailer-Prepared Receptacle Customs Data Requirements

Mailer-prepared receptacles include those for IPA, ISAL, and Commercial ePacket customers. The receptacle pre-advice data for these products is submitted via Global Shipping Services (GSS) or Shipping Services Files (SSF) if the receptacle's contents include items with customs forms. The item-level customs data for these items may be submitted via these same means.

Shippers and consolidators work together to create customs forms, prepare bags, and transport shipments to a USPS facility. The responsible party for submitting the receptacle pre-advice and associated item-level customs data is the party preparing the receptacles/bags, printing a 24 digit receptacle barcode, and creating USPS Mailing Statement PS3700.

In some cases, a shipper may be required to send electronic information to a consolidator. In these cases, the shipper will send item-level customs data to USPS upon item creation. The consolidator will then submit to USPS any updated item-level customs data, including shipment and postage information, along with mailer-prepared receptacle customs data. See Appendix B titled 'Mailing and Data Flow Scenarios' for further information on this process.

3.1 Submission Guidelines

Mailers must submit a receptacle pre-advice file containing the mailing date, 24 character receptacle barcodes, and associated item-level customs information for a mailing that requires a customs declaration form. The below guidelines apply to receptacle pre-advice submissions. Item level customs data requirements are covered in Section 2.

- Receptacle pre-advice is required if associated items have customs forms.
- The responsible party for submitting receptacle pre-advice is the party preparing the receptacles/bags.
- Commercial mailers must send item level customs data (ITMATT) in advance of receptacle pre-advice.
- Receptacle pre-advice must be submitted as soon as possible and no less than 2 hours before a shipment is accepted at a USPS facility.
- Customs data receipt/load acknowledgement verification will be generated to systems transmitting customs data to USPS. File loading issues must be addressed by originating systems prior to induction of mail.
- Mailers must be able to receive file acknowledgement and error messages from USPS.
- All electronic transmissions must be secure (see Appendix E). Non-secure transmissions are no longer allowed.
- Shipping services file users should refer to this document for file transfer specifications: https://ribbs.usps.gov/intelligentmail_package/documents/tech_guides/PUB199IMPBImpGuide.pdf.

3.1.1 Submitting Electronic Information

Global Shipping Software (GSS)

GSS generates mailing labels, prints completed customs forms, and interfaces with downstream USPS systems to assist customers in satisfying federal export requirements.

GSS has the ability to link shippers and their respective consolidators to exchange data, associate 24 digit receptacle tags, and provide electronic information to USPS for each mailing. For example, if Shipper 1 uses GSS to print customs forms and is linked to a Consolidator, the Consolidator will have all of Shipper 1's electronic item info. When the Consolidator prepares receptacles at its facility, GSS will associate bags and items with the mailing. Then, when the Consolidator is ready to finalize a mailing, GSS will send electronic information to USPS for that mailing.

See Appendix C titled 'GSS Application Overview' for further information on this process.

GSS Labeling Only Option

GSS has a customs-label-only option that gives a consolidator or its customer the ability to use GSS to generate customs labels for IPA, ISAL, or FCPIS items. In addition to user key entry, package information can be pre-loaded into GSS by transferring a data file or passing XML to a GSS web method to eliminate redundant data entry. GSS can then print the customs form(s) to be applied to the parcel. This option does not require postage payment through GSS, so the consolidator (or end user) can still sort, process, and pay via permit imprint as it currently does. The consolidator must submit updated customs information with postage information once postage has been determined.

GSS is available as a downloadable Windows client, a web site, and a set of web-based Application Programming Interfaces (APIs). Mailers can use GSS independently or with their existing systems to streamline package preparation.

For specific details about GSS, mailers can contact the GSS Help Desk at gsshhelp@usps.com.

Shipping Services File

Each manifest within the Shipping Services File 2.0 (SSF) corresponds to a data record for each Post Office or other acceptance facility, with data records for the parcels grouped under the data record for the facility. The data records are divided into components called Detail Records. Detail Record 2 includes the mailer receptacle pre-advice data. Data Records 3 and 4 include the item-level customs data. Before submitting customs data via a Shipping Services File, mailers must complete a certification process with USPS. Mailers using SSF must use version 1.7 or higher.

Mailers transmit the SSFs to the Product Tracking System (PTS). File and record validations occur in both PTS and electronic verification system (eVS). PTS will send the confirmation/error/warning report listing any errors or warnings associated with the Shipping Services File. For eVS customers, PTS forwards Shipping Services Files to the eVS database to processing payment information. Records with errors in eVS will appear in the manifest error report in PostalOne!

Mailers should refer to the SSF manual on ribbs.usps.gov for more information:

https://ribbs.usps.gov/intelligentmail_package/documents/tech_guides/PUB199IMPBImpGuide.pdf.

XML Receptacle Pre-Advice

For current users, USPS is still supporting this file type as a temporary exception. Mailers approved to use XML must nest items directly into receptacles. Acceptable XML schema can be found in Appendix D.

3.2 Data Quality Guidelines

- Receptacle pre-advice must directly associate each item with a single receptacle within the mailing (i.e., piece to bag) for Commercial ePacket currently, and by June 29th, 2015 for IPA/ISAL.
- Each receptacle pre-advice file must provide an accurate listing of all receptacles and items in a physical mailing.
- Each receptacle must be separated by product code. For example, 'C' products (Non Dutiable ISAL) cannot be mixed with 'P' (Non Dutiable IPA) or 'A' (Dutiable ISAL), etc. Please see Mailer Label Barcode Convention table for the full Product Code list.
- SSF does not accept embedded spaces.
- SSF must be in American Standard Code for Information Interchange (ASCII text).
- A line feed and carriage return is needed at the end of every record except the last record for SSF.

3.3 Receptacle Barcode Compliance

In order for the US Postal Service to accurately process IPA, ISAL, and Commercial ePacket receptacles, the following shipment preparation specifications are required:

- Each dutiable item will require a customs form with a 13-digit, L or U-prefix barcode.
- Receptacle barcodes must be unique for 365 days.
- Each receptacle with dutiable items will require a 24-digit receptacle barcode (bag tag).
- The 24-character receptacle barcode specification includes an indicator that distinguishes dutiable versus non dutiable. (See table below.)

Mailer Label Barcode Convention				
Field Description	Position	Format	Example	Comments
Permit Number	1-10	N(10)	5541004040	
Product Code	11	AN(1)	P	(C=Non Dutiable ISAL; P=Non Dutiable IPA, D=Non Dutiable Global Direct) (A= Dutiable ISAL; I= Dutiable IPA, G=Dutiable Global Direct) X = ePacket
Service Code	12	AN(1)	Z	(M=M-bag; Z=n/a)
Receptacle Type	13	AN(1)	L	(B=Bag; L=Letter tray; F=Flat tray; P=Pallet; G=Gaylord)
Destination Office of Exchange	14-16	A(3)	LON	Use 3-digit IATA airport codes for: IPA: http://pe.usps.gov/text/imm/immc2_038.htm#ep3097589 ISAL: http://pe.usps.gov/text/imm/immc2_039.htm#ep3098192
Serial Number	17-24	AN(8)	RD000144	

Appendix A – AES/ITN/Exemption Field Formats

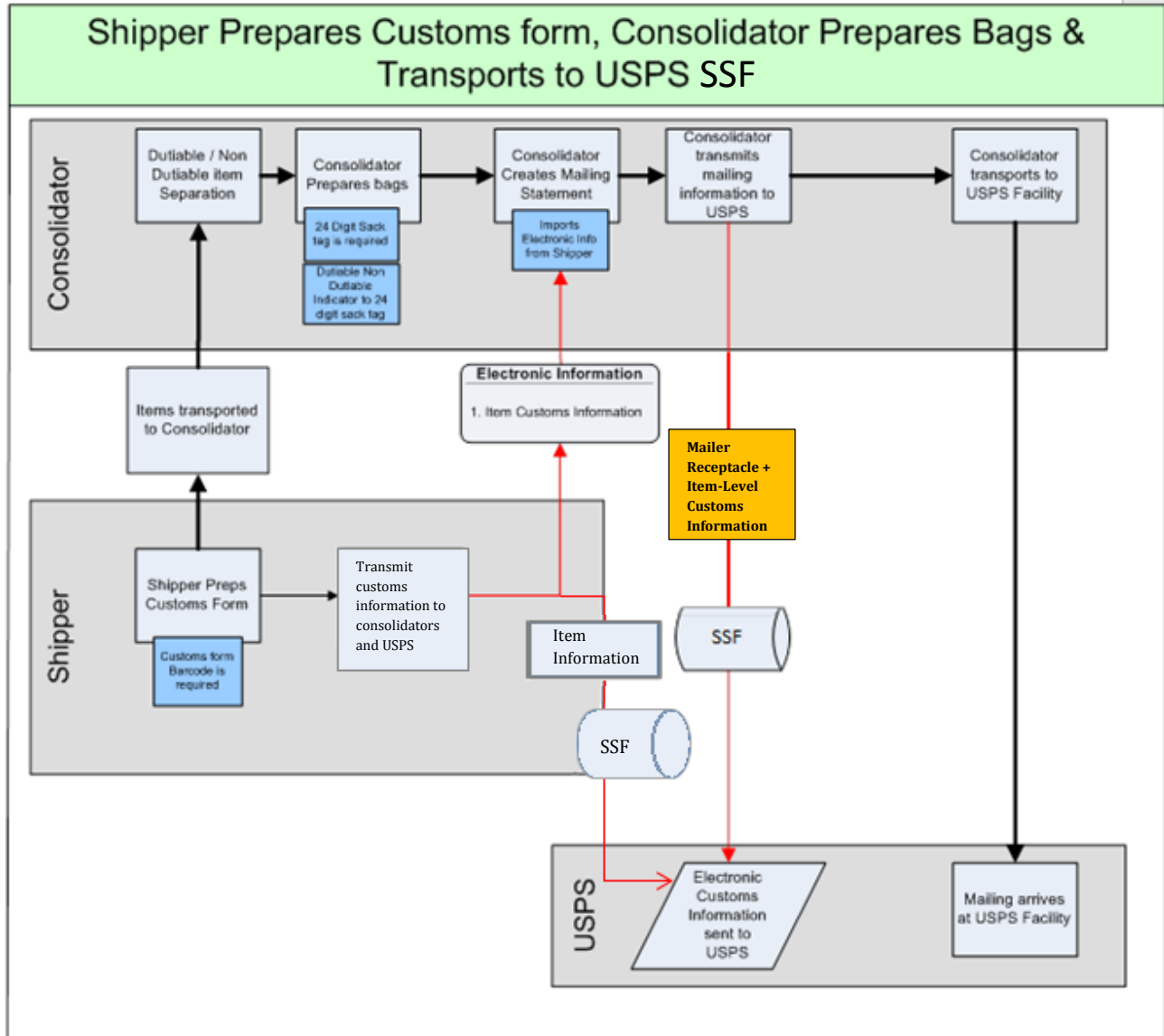
Enter one of the following notations:

#	Description	Example
1	AES Proof of Filing Citation An 'X' or "AES X" followed by a 4-digit year, followed by a 2-digit month, followed by a 2-digit day, followed by a 6-digit number	AES ITN Example: AES X20100101987654
2	AES Downtime Citation—Use only when AES or AESDirect is unavailable "AESDOWN" followed by the nine-digit filer ID number (EIN), followed by a valid date (2-digit month 2-digit day 4-digit year). Can also have a space between the component and slashes between the date elements	AESDOWN Filer ID mm/dd/yyyy; Example: AESDOWN 123456789 01/01/2010.
3.1	Exemption for Shipments to Canada	NOEEI § 30.36.
3.2	Special Exemption for Shipments to the U.S. Armed Forces	NOEEI § 30.39.
4.1	Exemption for Low-Value Shipments	NOEEI § 30.37(a).
4.2	Miscellaneous Exemption Statements are found in 15 CFR 30 Subpart D § 30.37(b) through § 30.37(y) <ul style="list-style-type: none"> • Parentheses around the letter is optional (Sample format: NOEEI 37.(b) or NOEEI 30.37b) 	NOEEI § 30.37 (site corresponding alphabet).
4.3	Special Exemptions for Certain Shipments to U.S. Government Agencies and Employees (Exemption Statements are found in 15 CFR 30 Subpart D § 30.40(a) through § 30.40(d) <ul style="list-style-type: none"> • Parentheses around the letter is optional (Sample format: NOEEI 30.40(a) or NOEEI 30.40a) 	NOEEI § 30.40 (site corresponding alphabet).
5	Exclusions from filing are found in 15 CFR Subpart A § 30.2(d)(1) through § 30.2(d)(5): <ul style="list-style-type: none"> • Parentheses are optional (Sample format: NOEEI 30.2(d)(2) or NOEEI 30.2d) 	Any of the following variations: <ul style="list-style-type: none"> • NOEEI 30.2d • NOEEI 30.2d2 • NOEEI 30.2(d) • NOEEI 30.2(d)(2)

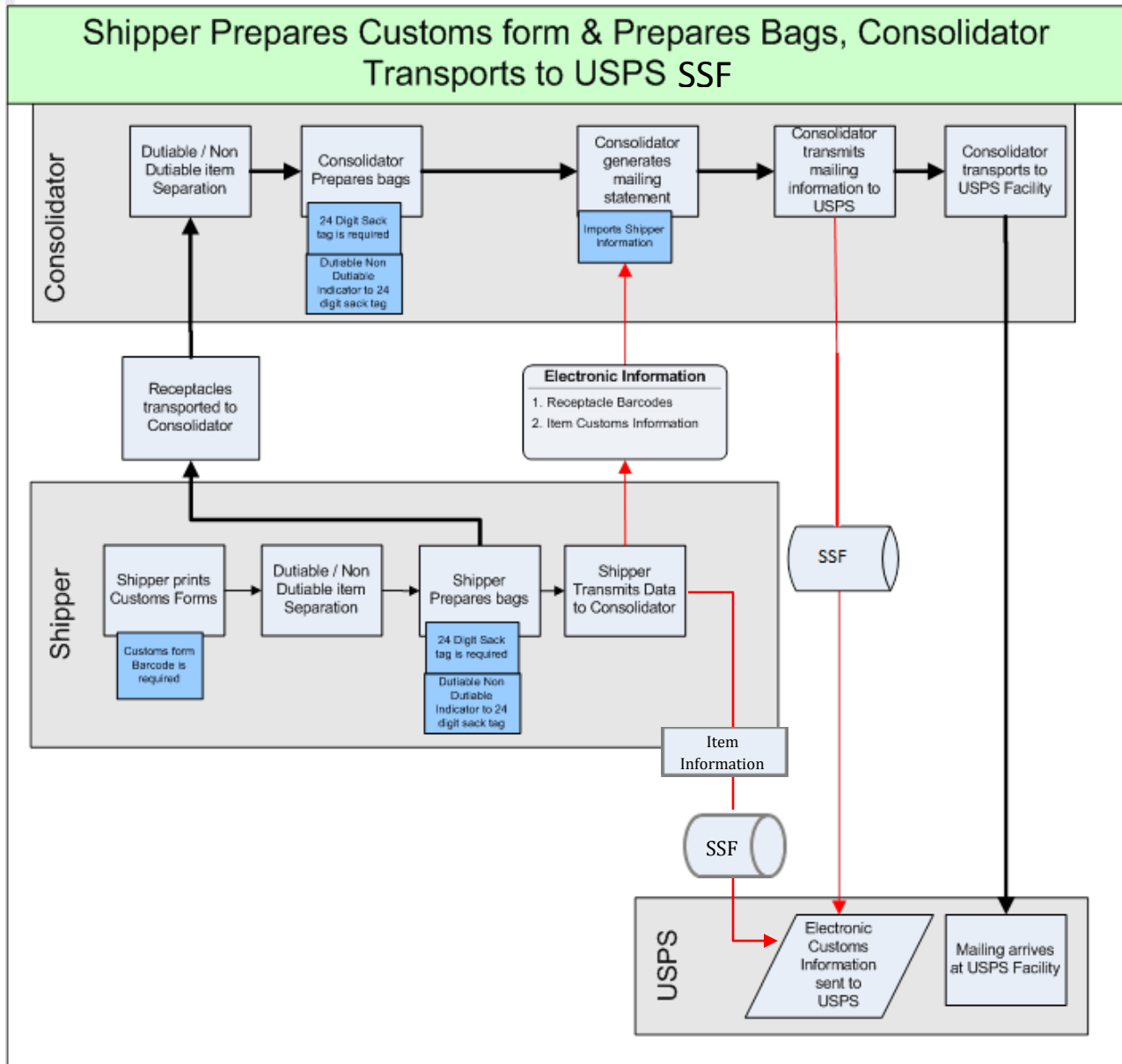
Appendix B – Mailing and Process Data Flow Scenarios

Below are data flows for acceptable Shipper and Consolidator relationships when tendering mail to USPS.

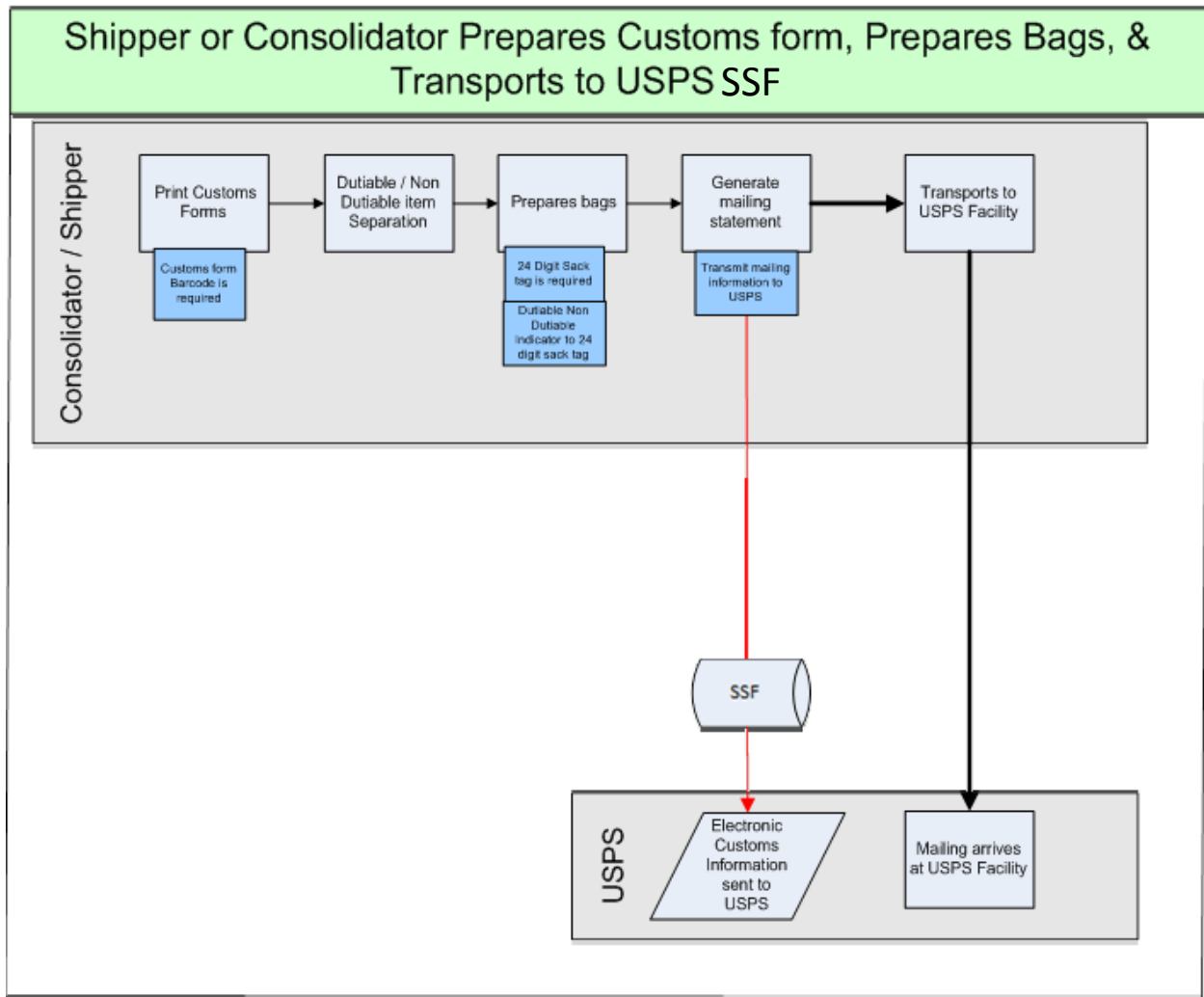
Shipping Services File Data Flows 1



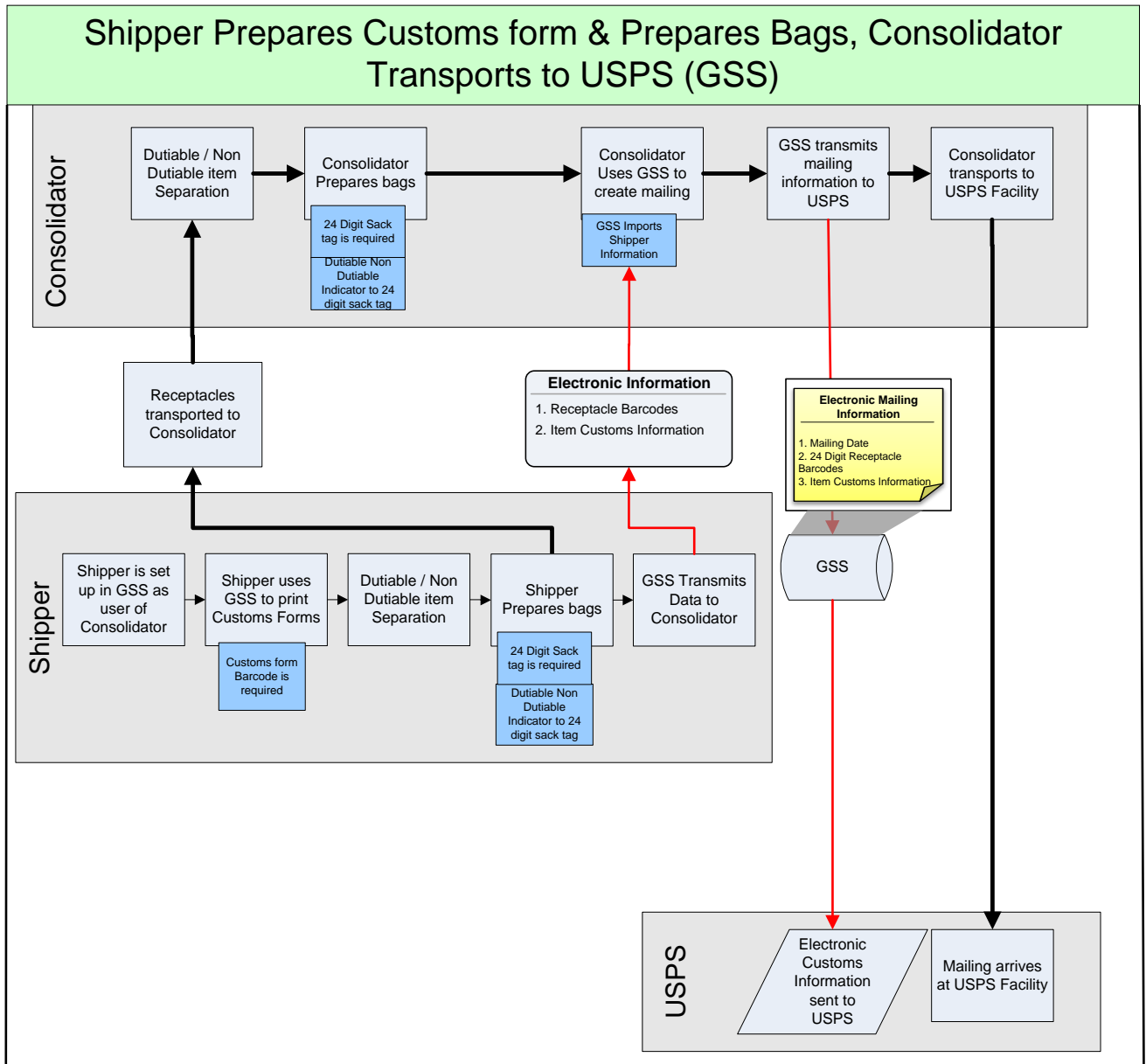
Shipping Services File Data Flows 2



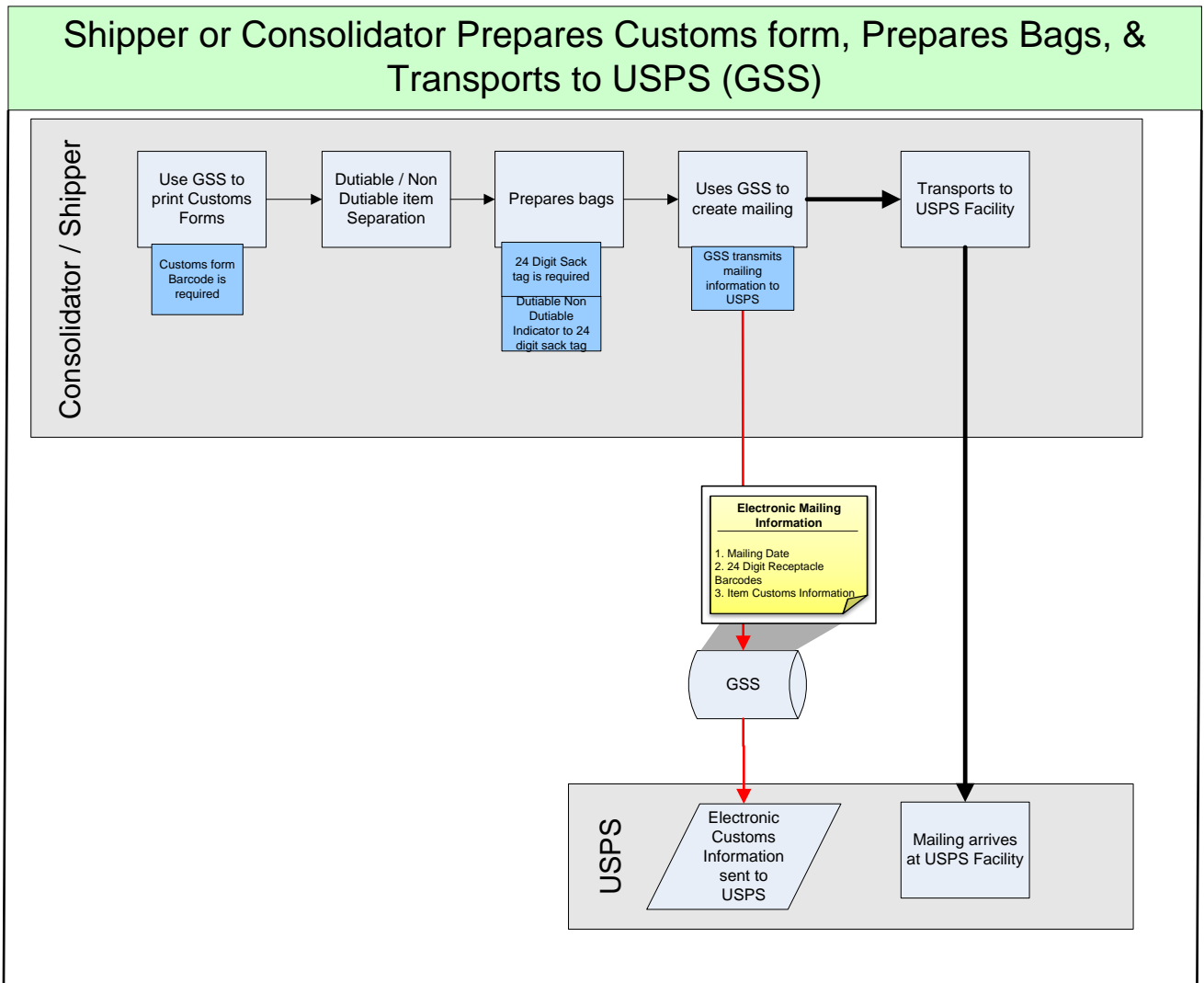
Shipping Services File Data Flows 3



Global Shipping Services Data Flows 2

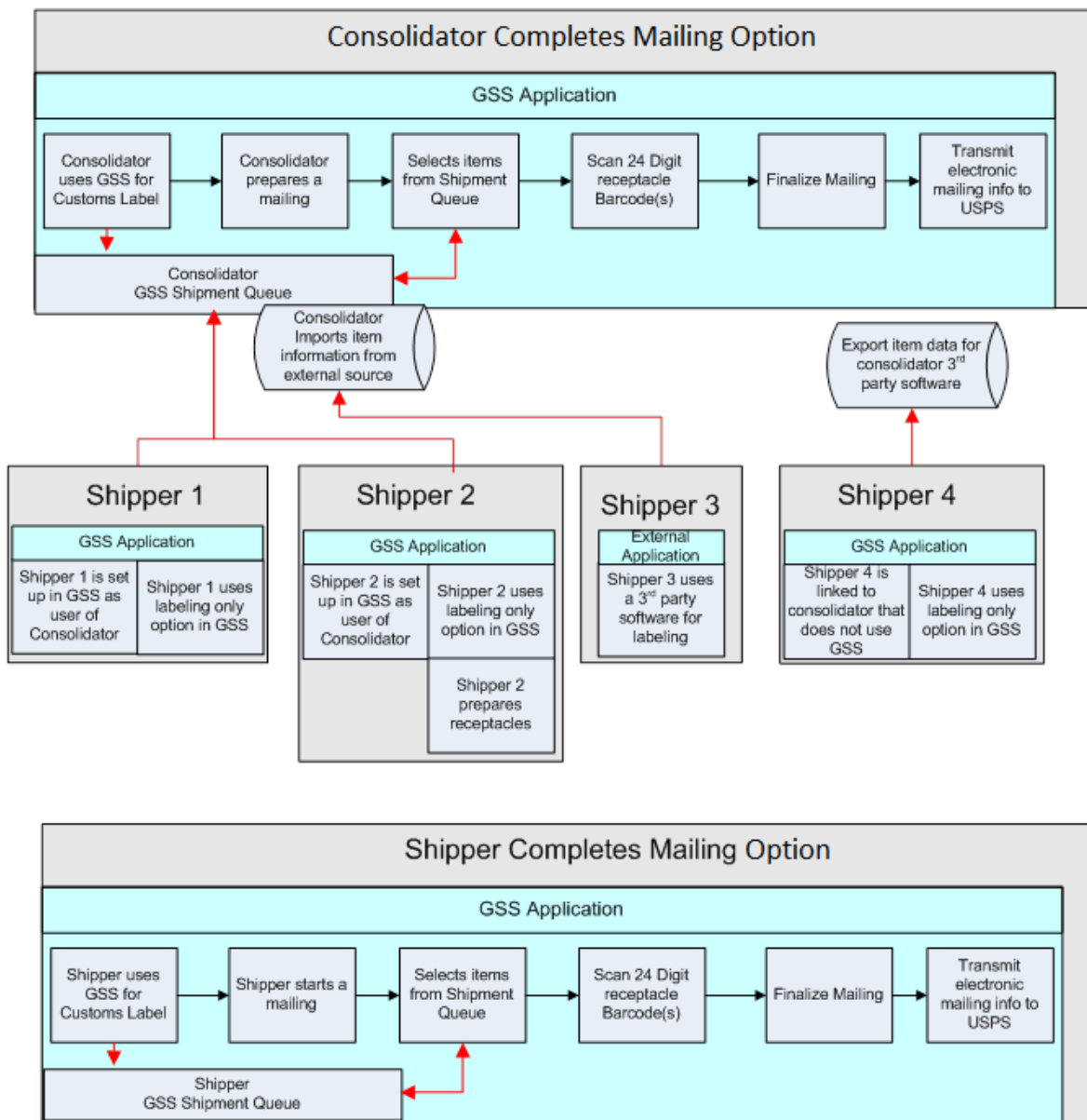


Global Shipping Services Data Flows 3



Appendix C – GSS Application Overview

GSS Application Overview



Appendix D – XML

Receptacle Pre-Advice XML File Layout

IPA ISAL GBE Receptacle XML File Layout				
XML Tag	Min	Max	Format	Description
<IPA-ISAL-GBE>	1	1		
<Dispatch>	1	999		
<Mailing_Date/>	1	1	an..12	Mailing date. Format YYYYMMDDHH24MI
<Receptacle_List>	1	1		
<Receptacle>	1	999		
<Receptacle_ID>	1	1	an..24	Dutiable 24 digit receptacle barcode. (Mailer barcode). At least one receptacle required.
<Labels_In_This_Receptacle>	0	1		
<Label_ID>	0	999999	an..13	Customs label barcode on an individual mail piece that is nested in this receptacle
</Labels_In_This_Receptacle>				
</Receptacle>				
</Receptacle_List>				
</Dispatch>				
<IPA-ISAL-GBE>				

Note – as shown in the sample below, all items must be associated to receptacles (by providing the customs barcodes in the “Labels_In_This_Receptacle” section. Customs barcodes are no longer permitted in the “Unknown_Receptacle_Label_List” (included in previous versions of the Receptacle XML File Layout).

Receptacle Pre-Advice XML File Sample - Items directly nested to a receptacle (All XML Tags are required regardless of value)

```

<?xml version="1.0" encoding="UTF-8"?>
<IPA-ISAL-GBE>
  <Dispatch>
    <Mailing_Date>201205031438</Mailing_Date>
    <Receptacle_List>
      <Receptacle>
        <Receptacle_ID>5541004040AMBLONRD000144</Receptacle_ID>
        <Labels_In_This_Receptacle>
          <Label_ID>LC123456789US</Label_ID>
          <Label_ID>LC123456139US</Label_ID>
          <Label_ID>LC123938368US</Label_ID>
          <Label_ID>LC627784356US</Label_ID>
        </Labels_In_This_Receptacle>
      </Receptacle>
      <Receptacle>
        <Receptacle_ID>5541004040AMBLONRD000248</Receptacle_ID>
        <Labels_In_This_Receptacle>
          <Label_ID>LC495689495US</Label_ID>
          <Label_ID>LC003459384US</Label_ID>
        </Labels_In_This_Receptacle>
      </Receptacle>
      <Receptacle>
        <Receptacle_ID>5541004040AMBLONRD000351</Receptacle_ID>
        <Labels_In_This_Receptacle>
          <Label_ID>LC229583406US</Label_ID>
          <Label_ID>LC243525678US</Label_ID>
          <Label_ID>LC229545920US</Label_ID>
          <Label_ID>LC229394056US</Label_ID>
          <Label_ID>LC239403406US</Label_ID>
          <Label_ID>LC239823406US</Label_ID>
          <Label_ID>LC009883406US</Label_ID>
          <Label_ID>LC038483406US</Label_ID>
        </Labels_In_This_Receptacle>
      </Receptacle>
      <Receptacle>
        <Receptacle_ID>5541004040AMBLONRD000550</Receptacle_ID>
        <Labels_In_This_Receptacle>
          <Label_ID>LC229504056US</Label_ID>
          <Label_ID>LC229558396US</Label_ID>
          <Label_ID>LC229504958US</Label_ID>
          <Label_ID>LC229539485US</Label_ID>
          <Label_ID>LC495830840US</Label_ID>
          <Label_ID>LC397804583US</Label_ID>
          <Label_ID>LC394859604US</Label_ID>
        </Labels_In_This_Receptacle>
      </Receptacle>
    </Receptacle_List>
  </Dispatch>
</IPA-ISAL-GBE>

```

Manifest Pre-Advice XML File Layout

Note – the XSD below is version 2.0. The “VersionNo” field should be populated with “2.0”. For a copy of the XSD file, please contact USPS.

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:NS="m40" elementFormDefault="unqualified" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import schemaLocation="Forms_basic_types_updated_11.xsd" namespace="m40" />
  <xs:element name="Header">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="FileType" type="NS:ST_String_x1_25" />
        <xs:element minOccurs="1" maxOccurs="1" name="GenerationDate" type="NS:ST_UTC_21" />
        <xs:element minOccurs="1" maxOccurs="1" name="VersionNo" type="NS:ST_String_x1_10" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="CT_itmatt_1_2_1">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="99999" name="Manifest">
          <xs:complexType>
            <xs:sequence>
              <xs:element minOccurs="1" maxOccurs="1" name="CustomsStatus" type="NS:ST_Custom_Status_Only_NUC" />
              <xs:element minOccurs="1" maxOccurs="1" name="MailingDate" type="NS:ST_UTC_21" />
              <xs:element minOccurs="0" maxOccurs="1" name="SchedDelivery" type="NS:ST_UTC_21" />
              <xs:element minOccurs="1" maxOccurs="1" name="CustomsLabel" type="NS:ST_String_13_34" />
              <xs:element minOccurs="1" maxOccurs="1" name="SourceApp" type="NS:ST_Source_App" />
              <xs:element minOccurs="1" maxOccurs="1" name="MailerId" type="NS:ST_String_x_9" />
              <xs:element minOccurs="0" maxOccurs="1" name="MailerPermitNo" type="NS:ST_String_x_10" />
              <xs:element minOccurs="0" maxOccurs="1" name="AES_ITN_Exemption" type="NS:ST_String_0_50" />
              <xs:element minOccurs="0" maxOccurs="1" default="1" name="MailHandling" type="NS:ST_String_1_2" />
              <xs:element minOccurs="1" maxOccurs="1" name="Sender_Information">
                <xs:complexType>
                  <xs:sequence>
                    <xs:element name="FirstLast_Or_Business_Sender">
                      <xs:complexType>
                        <xs:choice>
                          <xs:sequence>
                            <xs:element name="FirstName" type="NS:ST_String_2_49" />
                            <xs:element minOccurs="0" maxOccurs="1" name="MiddleInitial" type="NS:ST_String_Only_Alpha" />
                            <xs:element name="LastName" type="NS:ST_String_2_75" />
                          </xs:sequence>
                          <xs:sequence>
                            <xs:element name="BusinessName" type="NS:ST_String_2_100" />
                          </xs:sequence>
                        </xs:choice>
                      </xs:complexType>
                    </xs:element>
                    <xs:element minOccurs="0" maxOccurs="1" name="Contact_Information" type="NS:Phone_Email" />
                    <xs:element minOccurs="1" maxOccurs="1" name="StreetAddress" type="NS:CT_Street_Address" />
                    <xs:element minOccurs="1" maxOccurs="1" name="City" type="NS:ST_Sender_City" />
                    <xs:element minOccurs="1" maxOccurs="1" name="US_State" type="NS:ST_StateCode" />
                    <xs:element minOccurs="1" maxOccurs="1" name="Zip_5" type="NS:Zip_5" />
                    <xs:element minOccurs="0" maxOccurs="1" name="Zip_4" type="NS:Zip_4" />
                    <xs:element minOccurs="0" maxOccurs="1" name="DeliveryPointCode" type="NS:Delivery_Point_Code" />
                    <xs:element minOccurs="1" maxOccurs="1" name="Country" type="NS:ST_CountryCode" />
                  </xs:sequence>
                </xs:complexType>
              </xs:element>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

```

<xs:element minOccurs="1" maxOccurs="1" name="Addressee_Information">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="FirstLast_Or_Business_Addressee">
        <xs:complexType>
          <xs:choice>
            <xs:sequence>
              <xs:element name="FirstName" type="NS:ST_String_2_49" />
              <xs:element minOccurs="0" maxOccurs="1" name="MiddleInitial" type="NS:One_Alpha" />
              <xs:element name="LastName" type="NS:ST_String_2_75" />
            </xs:sequence>
            <xs:sequence>
              <xs:element name="BusinessName" type="NS:ST_String_2_100" />
            </xs:sequence>
          </xs:choice>
        </xs:complexType>
      </xs:element>
      <xs:element minOccurs="0" maxOccurs="1" name="Contact_Information" type="NS:Phone_Email" />
      <xs:element minOccurs="1" maxOccurs="1" name="StreetAddress" type="NS:CT_Street_Address" />
      <xs:element minOccurs="0" maxOccurs="1" name="City" type="NS:ST_String_1_50" />
      <xs:element minOccurs="0" maxOccurs="1" name="Postcode" type="NS:ST_Postcode" />
      <xs:element minOccurs="0" maxOccurs="1" name="State_Province" type="NS:ST_String_1_40" />
      <xs:element minOccurs="1" maxOccurs="1" name="Country" type="NS:ST_CountryCode" />
      <xs:element minOccurs="0" maxOccurs="1" name="InterlineTranslation" type="NS:ST_InterlineTranslation" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element minOccurs="1" maxOccurs="999" name="Content_Information">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="ItemNumber" type="NS:ST_Integer_1_999" />
      <xs:element minOccurs="1" maxOccurs="1" name="ItemDescription" type="NS:ST_String_1_256" />
      <xs:element minOccurs="1" maxOccurs="1" name="ItemQty" type="NS:ST_Integer_1_6_No_0" />
      <xs:element minOccurs="0" maxOccurs="1" name="ItemPounds" type="NS:ST_pounds_0_2" />
      <xs:element minOccurs="0" maxOccurs="1" name="ItemOunces" type="NS:ST_ounces_0_2" />
      <xs:element minOccurs="0" maxOccurs="1" name="ItemValue" type="NS:ST_USD_Value_1_7" />
      <xs:element minOccurs="0" maxOccurs="1" name="TariffNo" type="NS:ST_HS_CustomsTariff" />
      <xs:element minOccurs="0" maxOccurs="1" name="OriginCountry" type="NS:ST_CountryCode" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element minOccurs="1" maxOccurs="1" name="TotalGrossPounds" type="NS:ST_Integer_1_2" />
<xs:element minOccurs="1" maxOccurs="1" name="TotalGrossOunces" type="NS:ST_Integer_0_2" />
<xs:element minOccurs="1" maxOccurs="1" name="TotalGrossQty" type="NS:ST_Integer_0_999999" />
<xs:element minOccurs="1" maxOccurs="1" name="TotalGrossValue" type="NS:ST_USD_Value_1_7" />
<xs:element name="Restriction_Type_Comments">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="RestrictionType" type="NS:ST_Type_123" />
      <xs:element minOccurs="0" maxOccurs="1" name="RestrictionComment" type="NS:ST_Comments" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Content_Type_Comments">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="ContentType" type="NS:ST_Content_Type" />
      <xs:element minOccurs="0" maxOccurs="1" name="ContentComment" type="NS:ST_Comments" />
    </xs:sequence>
  </xs:complexType>

```

```

</xs:element>
<xs:element minOccurs="0" maxOccurs="1" name="Exporter_Information">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="ReferenceType" type="NS:ST_Type_123" />
      <xs:element minOccurs="0" maxOccurs="1" name="Reference" type="NS:ST_Reference" />
      <xs:element minOccurs="0" maxOccurs="1" name="Contact_Information" type="NS:Phone_Email" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element minOccurs="0" maxOccurs="1" name="Importer_Information">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="ReferenceType" type="NS:ST_Type_123" />
      <xs:element minOccurs="0" maxOccurs="1" name="Reference" type="NS:ST_Reference" />
      <xs:element minOccurs="0" maxOccurs="1" name="Contact_Information" type="NS:Phone_Email" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element minOccurs="0" maxOccurs="1" name="LicenseNo" type="NS:ST_AlphaNumeric_Length_0_16" />
<xs:element minOccurs="0" maxOccurs="1" name="CertificateNo" type="NS:ST_AlphaNumeric_Length_0_12" />
<xs:element minOccurs="0" maxOccurs="1" name="InvoiceNo" type="NS:ST_AlphaNumeric_Length_0_15" />
<xs:element minOccurs="0" maxOccurs="1" name="InsuranceFees" type="NS:ST_USD_Value_1_5" />
<xs:element minOccurs="0" maxOccurs="1" name="InsuredNo" type="NS:ST_AlphaNumeric_Length_0_13" />
<xs:element minOccurs="0" maxOccurs="1" name="InsuredAmount" type="NS:ST_USD_Value_1_5" />
<xs:element minOccurs="0" maxOccurs="1" name="SDR_Value" type="NS:ST_SDR_Value_3_4" />
<xs:element minOccurs="0" maxOccurs="1" name="TotalPostageFees" type="NS:ST_USD_Value_1_7" />
<xs:element minOccurs="1" maxOccurs="1" name="SenderSignature" nillable="true" type="NS:ST_String_Signature_125" />
<xs:element minOccurs="1" maxOccurs="1" name="SignatureTimestamp" type="NS:ST_Date_With_UTC" />
<xs:element minOccurs="0" maxOccurs="1" name="Length" type="NS:ST_Integer_0_999" />
<xs:element minOccurs="0" maxOccurs="1" name="Width" type="NS:ST_Integer_0_999" />
<xs:element minOccurs="0" maxOccurs="1" name="Height" type="NS:ST_Integer_0_999" />
<xs:element minOccurs="0" maxOccurs="1" name="Redirect_Information">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="RedirectType"
type="NS:ST_Type_123" />
      <xs:element minOccurs="0" maxOccurs="1" name="FirstName" type="NS:ST_String_2_49" />
      <xs:element minOccurs="0" maxOccurs="1" name="MiddleInitial" type="NS:ST_String_Only_Alpha" />
      <xs:element minOccurs="0" maxOccurs="1" name="LastName" type="NS:ST_String_2_75" />
      <xs:element minOccurs="0" maxOccurs="1" name="BusinessName" type="NS:ST_String_2_100" />
      <xs:element minOccurs="0" maxOccurs="1" name="Contact_Information" type="NS:Phone_Email" />
      <xs:element minOccurs="0" maxOccurs="1" name="StreetAddress" type="NS:CT_Street_Address" />
      <xs:element minOccurs="0" maxOccurs="1" name="City" type="NS:ST_Sender_City" />
      <xs:element minOccurs="0" maxOccurs="1" name="US_State" type="NS:ST_StateCode" />
      <xs:element minOccurs="0" maxOccurs="1" name="Zip_5" type="NS:Zip_5" />
      <xs:element minOccurs="0" maxOccurs="1" name="Zip_4" type="NS:Zip_4" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="CT_itmatt_1_2_1" />
<xs:element name="Trailer">
  <xs:complexType>
    <xs:sequence>

```

```
<xs:element minOccurs="1" maxOccurs="1" name="FileType" type="NS:ST_String_x1_25" />  
<xs:element minOccurs="1" maxOccurs="1" name="GenerationDate" type="NS:ST_UTC_21" />  
<xs:element minOccurs="1" maxOccurs="1" name="VersionNo" type="NS:ST_String_x1_10" />  
<xs:element minOccurs="1" maxOccurs="1" name="Count" type="NS:ST_Integer_1_5" />  
</xs:sequence>  
</xs:complexType>  
</xs:element>  
</xs:schema>
```

Manifest Pre-Advice XML Definitions

XSD file posted to RIBBS:

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  targetNamespace="m40"
  xmlns:NS1="m40"
  elementFormDefault="unqualified">

  <xs:simpleType name="ST_Integer_1_2"> <!-- Integer value of max length 6 characters -->
    <xs:restriction base="xs:nonNegativeInteger">
      <xs:minInclusive value="0"/>
      <xs:maxInclusive value="99"/>
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="ST_Integer_1_5"> <!-- Integer value of max length 6 characters -->
    <xs:restriction base="xs:nonNegativeInteger">
      <xs:minInclusive value="0"/>
      <xs:maxInclusive value="99999"/>
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="ST_String_x1_50"> <!-- Alphanumeric string of max length 49 characters -->
    <xs:restriction base="xs:string">
      <xs:maxLength value="50" />
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="ST_Integer_1_6_No_0"> <!-- Integer value of max length 6 characters -->
    <xs:restriction base="xs:nonNegativeInteger">
      <xs:minInclusive value="1"/>
      <xs:maxInclusive value="999999"/>
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="ST_Decimal_1_5"><!-- Decimal value of max length 7 digits and max 2 decimal digits -->
    <xs:restriction base="xs:decimal">
      <xs:fractionDigits value="2" />
      <xs:minInclusive value="0.00"/>
      <xs:maxInclusive value="99.99"/>
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="ST_Decimal_1_7"><!-- Decimal value of max length 7 digits and max 2 decimal digits -->
    <xs:restriction base="xs:decimal">
      <xs:fractionDigits value="2" />
      <xs:minInclusive value="0.00"/>
      <xs:maxInclusive value="99999.99"/>
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="ST_String_x"> <!-- Single alphanumeric character -->
    <xs:restriction base="xs:string">
      <xs:pattern value="[A-Z0-9]" />
    </xs:restriction>
  </xs:simpleType>
</xs:schema>
```

```

</xs:simpleType>

<xs:simpleType name="ST_String_x1_2"> <!-- Single alphanumeric character -->
  <xs:restriction base="xs:string">
    <xs:maxLength value="2" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_x1_4"> <!-- Single alphanumeric character -->
  <xs:restriction base="xs:string">
    <xs:maxLength value="4" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_x1_5"> <!-- Single alphanumeric character -->
  <xs:restriction base="xs:string">
    <xs:maxLength value="5" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_x1_9"> <!-- Alphanumeric string of max length 49 characters -->
  <xs:restriction base="xs:string">
    <xs:maxLength value="9" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_x1_10"> <!-- Alphanumeric string of max length 49 characters -->
  <xs:restriction base="xs:string">
    <xs:maxLength value="10" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_x1_13"> <!-- Alphanumeric string of max length 49 characters -->
  <xs:restriction base="xs:string">
    <xs:maxLength value="13" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_x1_14"> <!-- Alphanumeric string of max length 49 characters -->
  <xs:restriction base="xs:string">
    <xs:maxLength value="14" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_x1_15"> <!-- Alphanumeric string of max length 49 characters -->
  <xs:restriction base="xs:string">
    <xs:maxLength value="15" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_x1_16"> <!-- Alphanumeric string of max length 49 characters -->
  <xs:restriction base="xs:string">
    <xs:maxLength value="16" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_x1_25"> <!-- Alphanumeric string of max length 49 characters -->
  <xs:restriction base="xs:string">
    <xs:maxLength value="25" />
  </xs:restriction>

```



```

</xs:simpleType>

<xs:simpleType name="ST_String_x1_30">      <!-- Alphanumeric string of max length 49 characters -->
  <xs:restriction base="xs:string">
    <xs:maxLength value="30" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_x1_34">      <!-- Alphanumeric string of max length 100 characters -->
  <xs:restriction base="xs:string">
    <xs:maxLength value="34" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_x1_35">      <!-- Alphanumeric string of max length 100 characters -->
  <xs:restriction base="xs:string">
    <xs:maxLength value="35" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_x1_40">      <!-- Alphanumeric string of max length 49 characters -->
  <xs:restriction base="xs:string">
    <xs:maxLength value="40" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_x1_49">      <!-- Alphanumeric string of max length 49 characters -->
  <xs:restriction base="xs:string">
    <xs:maxLength value="49" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_x1_75">      <!-- Alphanumeric string of max length 75 characters -->
  <xs:restriction base="xs:string">
    <xs:maxLength value="75" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_x1_100">     <!-- Alphanumeric string of max length 100 characters -->
  <xs:restriction base="xs:string">
    <xs:maxLength value="100" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_Signature_125"> <!-- Alphanumeric string of max length 125 characters -->
  <xs:restriction base="xs:string">
    <xs:minLength value="1" />
    <xs:maxLength value="125" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_x1_256">     <!-- Alphanumeric string of max length 100 characters -->
  <xs:restriction base="xs:string">
    <xs:maxLength value="256" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_CustomsTariff">     <!-- Customs HS tariff code -->
  <xs:restriction base="xs:string">
    <xs:pattern value="[A-Z]{2}[0-9]{4,10}[[0-9]{4,12}" />
  </xs:restriction>
</xs:simpleType>

```

```

        </xs:restriction>
    </xs:simpleType>

    <xs:simpleType name="ST_Email">      <!-- Email address -->
        <xs:restriction base="xs:string">
            <xs:maxLength value="50" />
            <xs:pattern value="[A-Za-z0-9!#$%'+/=/?^_`{}~-]+(\.[A-Za-z0-9!#$%'+/=/?^_`{}~-]+){0,}\@[A-Za-z0-9!#$%'+/=/?^_`{}~-]+(\.[A-Za-z0-9!#$%'+/=/?^_`{}~-]+){1,3}" />      <!-- No spaces -->
        </xs:restriction>
    </xs:simpleType>

    <xs:simpleType name="ST_Phone">
        <xs:restriction base="xs:string">
            <xs:maxLength value="24" />
            <xs:pattern value="[+]{0,1}[\d\.\\s\(\)\px]{1,24}" />      <!-- No spaces; single @ character -->
        </xs:restriction>
    </xs:simpleType>

    <xs:simpleType name="ST_Postcode">
        <xs:restriction base="xs:string">
            <xs:maxLength value="25" />
            <xs:pattern value="[A-Z]{2,3}[A-Z]{5}[A-Z0-9]{0,1}[A-Z]{2}-[A-Z0-9]{4,22}[[AZ]{2}\.[A-Z]{2,23}][A-Z][A-Z0-9]{6,24}" /> <!-- No spaces; single @ character -->
        </xs:restriction>
    </xs:simpleType>

    <xs:complexType name="CT_Street_Address">      <!-- Postal address; needs to be made compliant with P14 -->
        <xs:sequence>
            <xs:element name="line" minOccurs="1" maxOccurs="3" type="NS1:ST_String_x1_50" />
        </xs:sequence>
    </xs:complexType>

    <xs:complexType name="ST_InterlineTranslation"> <!-- Postal address; needs to be made compliant with P14 -->
        <xs:sequence>
            <xs:element name="line" minOccurs="1" maxOccurs="2" type="NS1:ST_String_x1_50" />
        </xs:sequence>
    </xs:complexType>

    <xs:simpleType name="ST_Day">      <!-- Date, compliant with UPU Standards glossary definition -->
        <xs:restriction base="xs:string">
            <xs:pattern value="[0-9]{4,11}" />
        </xs:restriction>
    </xs:simpleType>

    <xs:simpleType name="ST_Date_With_UTC">      <!-- Date, compliant with UPU Standards glossary definition 2006-03-8T12:00:00.1234567Z-->
        <xs:restriction base="xs:string">
            <xs:pattern value="[0-9]{4,17}[\.\-][0-9]{4}" />
        </xs:restriction>
    </xs:simpleType>

    <xs:simpleType name="ST_Date_With_Local_Offset">      <!-- Date, compliant with UPU Standards glossary definition 2006-03-28T12:00:00+02:00-->
        <xs:restriction base="xs:string">
            <xs:pattern value="[0-9]{4}\-[0-9]{2}\-[0-9]{2}T[0-9]{2}:[0-9]{2}:[0-9]{2}[+-][0-9]{2}:[0-9]{2}" />
        </xs:restriction>
    </xs:simpleType>

    <xs:simpleType name="ST_Date_Without_UTC">      <!-- Date, compliant with UPU Standards glossary definition -->
        <xs:restriction base="xs:string">
            <xs:pattern value="[0-9]{4,11}[0-9]{4,17}" />

```

```

        </xs:restriction>
</xs:simpleType>

<xs:complexType name="CT_Contact_Info"          <!-- Postal address; needs to be made compliant with P14 -->
  <xs:sequence>
    <xs:element name="PhoneNo" minOccurs="0" maxOccurs="1" type="NS1:ST_Phone" />
    <xs:element name="Email" minOccurs="0" maxOccurs="1" type="NS1:ST_Email" />
  </xs:sequence>
</xs:complexType>

<xs:simpleType name="ST_Custom_Status_Only_NUC"      <!-- Custom status can only be N or U or C-->
  <xs:restriction base="xs:string">
    <xs:pattern value="[NUC]" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_UTC_21">    <!-- Date, UTC with GMT offset from 4 to upto 21 characters -->
  <xs:restriction base="xs:string">
    <xs:pattern value="[0-9]{4,21}" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_13_34">          <!-- Alphanumeric string of 13-34 characters -->
  <xs:restriction base="xs:string">
    <xs:minLength value="13" />
    <xs:maxLength value="34" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_x_9">    <!-- Alphanumeric string of ONLY 9 characters -->
  <xs:restriction base="xs:string">
    <xs:pattern value="[0-9]{9}" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_x_10"> <!-- Alphanumeric string of ONLY 9 numbers -->
  <xs:restriction base="xs:string">
    <xs:pattern value="[0-9]{10}" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_0_50"> <!-- Alphanumeric string of 0 to 50 characters -->
  <xs:restriction base="xs:string">
    <xs:minLength value="0" />
    <xs:maxLength value="50" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_Source_App"> <!-- One to three characters from 1 to 999 -->
  <xs:restriction base="xs:string">
    <xs:minLength value="1" />
    <xs:maxLength value="3" />
    <xs:pattern value="[0-9]" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_1_2">    <!-- Single character 1 or 2-->
  <xs:restriction base="xs:string">
    <xs:enumeration value="1" />
    <xs:enumeration value="2" />
  </xs:restriction>
</xs:simpleType>

```

```

        </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_2_49"> <!-- Alphanumeric string of 2 to 49 characters -->
  <xs:restriction base="xs:string">
    <xs:minLength value="2" />
    <xs:maxLength value="49" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_2_75"> <!-- Alphanumeric string 2 - 75 characters -->
  <xs:restriction base="xs:string">
    <xs:minLength value="2" />
    <xs:maxLength value="75" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_Only_Alpha"> <!-- Single alpha character -->
  <xs:restriction base="xs:string">
    <xs:pattern value="[A-Z]" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_2_100"> <!-- Alphanumeric string 2 - 100 characters -->
  <xs:restriction base="xs:string">
    <xs:minLength value="2" />
    <xs:maxLength value="100" />
  </xs:restriction>
</xs:simpleType >

<xs:complexType name="Phone_Email"> <!-- Phone number and email -->
  <xs:sequence>
    <xs:element name="PhoneNo" minOccurs="0" maxOccurs="1" type="NS1:ST_Phone" />
    <xs:element name="Email" minOccurs="0" maxOccurs="1" type="NS1:ST_Email" />
  </xs:sequence>
</xs:complexType >

<xs:simpleType name="ST_Sender_City"> <!-- Alphanumeric string 1 - 50 characters -->
  <xs:restriction base="xs:string">
    <xs:minLength value="1" />
    <xs:maxLength value="50" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_CountryCode">
  <xs:restriction base="xs:string">
    <xs:minLength value="2" />
    <xs:maxLength value="2" />
    <xs:enumeration value="AX"/>
    <xs:enumeration value="AL"/>
    <xs:enumeration value="DZ"/>
    <xs:enumeration value="AS"/>
    <xs:enumeration value="AD"/>
    <xs:enumeration value="AO"/>
    <xs:enumeration value="AI"/>
    <xs:enumeration value="AQ"/>
    <xs:enumeration value="AG"/>
    <xs:enumeration value="AR"/>
    <xs:enumeration value="AM"/>
    <xs:enumeration value="AW"/>
  </xs:restriction>

```

<xs:enumeration value="AU"/>
<xs:enumeration value="AT"/>
<xs:enumeration value="AZ"/>
<xs:enumeration value="BS"/>
<xs:enumeration value="BH"/>
<xs:enumeration value="BD"/>
<xs:enumeration value="BB"/>
<xs:enumeration value="BY"/>
<xs:enumeration value="BE"/>
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```

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```

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```

```
</xs:restriction>
</xs:simpleType>
```



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<xs:simpleType name="ST_StateCode">
  <xs:restriction base="xs:string">
    <xs:minLength value="2" />
    <xs:maxLength value="2" />
    <xs:enumeration value="AL"/>
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    <xs:enumeration value="CO"/>
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    <xs:enumeration value="VT"/>
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    <xs:enumeration value="VA"/>
```

```

        <xs:enumeration value="WA" />
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        <xs:enumeration value="WI" />
        <xs:enumeration value="WY" />
        <xs:enumeration value="AA" />
        <xs:enumeration value="AE" />
    </xs:enumeration value="AF" />
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="Zip_5">
    <xs:restriction base="xs:string">
        <xs:pattern value="[0-9]{5}" />
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="Zip_4">
    <xs:restriction base="xs:string">
        <xs:pattern value="[0-9]{4}" />
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="Delivery_Point_Code">
    <xs:restriction base="xs:string">
        <xs:pattern value="[0-9]{2}" />
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="Country_Code">
    <xs:restriction base="xs:string">
        <xs:pattern value="[A-Z]{2}" />
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="One_Alpha">
    <xs:restriction base="xs:string">
        <xs:pattern value="[A-Z]" />
    </xs:restriction>
</xs:simpleType>

<xs:complexType name="Street_Address" <!-- Postal address; needs to be made compliant with P14 -->
    <xs:sequence>
        <xs:element name="line" minOccurs="1" maxOccurs="4" type="NS1:ST_String_1_50" />
    </xs:sequence>
</xs:complexType>

<xs:simpleType name="ST_String_1_50"> <!-- Alphanumeric string of 1 to 50 characters -->
    <xs:restriction base="xs:string">
        <xs:minLength value="1" />
        <xs:maxLength value="50" />
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_String_1_40"> <!-- Alphanumeric string of max length 49 characters -->
    <xs:restriction base="xs:string">
        <xs:minLength value="1" />
        <xs:maxLength value="40" />
    </xs:restriction>
</xs:simpleType>

```

```

<xs:simpleType name="ST_String_1_256">          <!-- Alphanumeric string of max length 49 characters -->
  <xs:restriction base="xs:string">
    <xs:minLength value="1" />
    <xs:maxLength value="256" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_Integer_1_999">        <!-- Integer value of max length 6 characters -->
  <xs:restriction base="xs:nonNegativeInteger">
    <xs:minInclusive value="1" />
    <xs:maxInclusive value="999" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_Integer_0_15">        <!-- Integer value of max length 6 characters -->
  <xs:restriction base="xs:nonNegativeInteger">
    <xs:minInclusive value="0" />
    <xs:maxInclusive value="15" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_pounds_0_2">          <!-- Integer value of max length 2 characters -->
  <xs:restriction base="xs:nonNegativeInteger">
<xs:pattern value="\d{1,2}" />
    <xs:minInclusive value="0" />
    <xs:maxInclusive value="99" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_ounces_0_2">          <!-- Integer value of max length 2 characters -->
  <xs:restriction base="xs:nonNegativeInteger">
<xs:pattern value="\d{1,2}" />
    <xs:minInclusive value="0" />
    <xs:maxInclusive value="15" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_Integer_0_2">        <!-- Integer value of max length 2 characters -->
  <xs:restriction base="xs:nonNegativeInteger">
<xs:pattern value="\d{1,2}" />
    <xs:minInclusive value="0" />
    <xs:maxInclusive value="15" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_USD_Value_1_7">      <!-- Decimal value of max length 7 digits and max 2 decimal digits -->
  <xs:restriction base="xs:decimal">
    <xs:pattern value="\d{0,7}\.\d{2}" />
<xs:minInclusive value="0.00" />
    <xs:maxInclusive value="9999999.99" />
  </xs:restriction>
</xs:simpleType>

  <xs:simpleType name="ST_HS_CustomsTariff">    <!-- Customs HS tariff code -->
  <xs:restriction base="xs:string">
<xs:minLength value="0" />
    <xs:maxLength value="12" />
    <xs:pattern value="[A-Z]{2}[0-9]{4,10}[[0-9]{4,12}" />
  </xs:restriction>
</xs:simpleType>

```

```

<xs:simpleType name="ST_Integer_0_999999">    <!-- Integer value of max length 6 characters -->
  <xs:restriction base="xs:nonNegativeInteger">
    <xs:minInclusive value="1"/>
    <xs:maxInclusive value="999999"/>
</xs:restriction>
<xs:pattern value="[0-9]"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_Type_123">    <!-- 1 or 2 or 3-->
  <xs:restriction base="xs:string">
    <xs:pattern value="[123]" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_Comments">    <!-- Alphanumeric string of max length 49 characters -->
  <xs:restriction base="xs:string">
    <xs:maxLength value="25" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_Content_Type">    <!-- 1 or 2 or 3-->
  <xs:restriction base="xs:string">
    <xs:pattern value="[1-8]{1,3}" />
    <xs:maxLength value="15" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_Reference">    <!-- 1 or 2 or 3-->
  <xs:restriction base="xs:string">
    <xs:pattern value="[A-Z0-9]{0,30}" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_Reference_Type">    <!-- 1 or 2 or 3-->
  <xs:restriction base="xs:string">
    <xs:pattern value="[123]" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_Alphanumeric_Length_0_16">    <!-- 1 or 2 or 3-->
  <xs:restriction base="xs:string">
    <xs:pattern value="[A-Z][0-9]{0,16}" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_Alphanumeric_Length_0_12">    <!-- 1 or 2 or 3-->
  <xs:restriction base="xs:string">
    <xs:pattern value="[A-Z0-9]{0,12}" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_Alphanumeric_Length_0_15">    <!-- 1 or 2 or 3-->
  <xs:restriction base="xs:string">
    <xs:pattern value="[A-Z0-9]{0,15}" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_Alphanumeric_Length_0_13">    <!-- 1 or 2 or 3-->
  <xs:restriction base="xs:string">

```

```

        <xs:pattern value="[A-Z0-9]{0,13}" />
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_USD_Value_1_5">    <!-- Decimal value of max length 5 digits and max 2 decimal digits -->
    <xs:restriction base="xs:decimal">
        <xs:pattern value="\d{0,5}\.\d{2}" />
        <xs:minInclusive value="0.00" />
<xs:maxInclusive value="99999.99" />
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_SDR_Value_3_4">    <!-- Decimal value of max length 5 digits and max 2 decimal digits -->
    <xs:restriction base="xs:decimal">
        <xs:pattern value="\d{0,3}\.\d{4}" />
        <xs:minInclusive value="0.0001" />
<xs:maxExclusive value="999.9999" />
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_Alphanumeric_Length_0_48">    <!-- 1 or 2 or 3-->
    <xs:restriction base="xs:string">
        <xs:pattern value="[A-Z0-9]{0,48}" />
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ST_Integer_0_999">    <!-- Integer value of max length 6 characters -->
    <xs:restriction base="xs:nonNegativeInteger">
        <xs:minInclusive value="0" />
        <xs:maxInclusive value="999" />
    </xs:restriction>
</xs:simpleType>
</xs:schema>

```

Appendix E – Secure Data Transfer Methods

The methods listed below are preferable for transmitting data to the USPS. The Data Transfer team will assist with set-up.

Communications Method	Communications Products	Transport / Protocol	Encryption / Key Management
<p>EDI/INT AS2 (preferred solution) and AS3 The "Internet Engineering Task Force Working Group for Electronic Data Interchange – Internet Integration" is an open standards group that defines how to move standard EDI data over the Internet (charter and standards available at http://www.ietf.org/html.charters/ediint-charter.html). The USPS is equipped to leverage these existing standards to connect with remote business partners. This option requires that the Business Partner also use an EDIINT capable software product.</p>	<p>There are more than 20 interoperable EDIINT certified software products currently available; for further information consult The Drummond Group. http://www.drummondgroup.com Product currently utilized by USPS is Gateway Interchange supporting AS.2 communications.</p>	<p>AS2: S/MIME over HTTP(S) Server ports may be placed outside of the canonical 80/443 set for technical or architectural reasons. AS3: S/MIME over SFTP Using the SSH protocol as a means of securing the transport layer, this allows for a very secure transmission of data much like AS2.</p>	<p>Transaction data is generally signed, with the keys provided in X.509v3 certificates. The Secure Hash Algorithm (SHA1) is used to provide an integrity check against tampering. Body encryption is performed with AES 256 bit encryption. Receipts or acknowledgements may be signed and are generally sent and expected for both the transport and application layers to provide non-repudiation of receipt.</p>
<p>SFTP/PGP USPS provides an SFTP solution to allow direct transmissions of files to USPS and for delivery of files to business partner SFTP servers. USPS also provides a solution for business partners that do not have SFTP server to use SFTP to PUT/deposit and GET/pick-up files.</p> <p>While SSH secures the authentication and transport of files, USPS still requests that all files transmitted are PGP encrypted so that data at rest is still protected.</p>	<p>SFTP is part of the SSH suite. More information may be found at: http://en.wikipedia.org/wiki/SSH</p> <p>Users may implement the full SSH suite or use programs which implement SFTP. A list of products, both commercial and open source, may be requested from USPS.</p> <p>PGP and GPG are implementations of a popular encryption package.</p> <p>PGP PGP Corporation http://www.pgp.com</p> <p>GnuPG Freeware http://www.gnu.org</p>	<p>SSH is used as a secure, encrypted transport layer for SFTP over port 22.</p>	<p>SSH automatically negotiates a secure encrypted link per RFC 4253 which handles encryption, compression and integrity verification automatically.</p>