

# Stamps.com XML Format Specifications Version 1.2

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## 1 Overview

The Stamps.com XML<sup>1</sup> standard is a means to exchange information between any software and the Stamps.com client to print postage or verify addresses. For instance, if you have a database of orders that are to be shipped to your customers you can use the Stamps.com XML format to print postage for all of them. To do so, you would have to export the data from your orders database into the Stamps.com XML format described here. Once your orders are exported in to the format you will be able to process this XML file using the Stamps.com software.

#### The Batch Interface

Currently XML files can be imported into the Batch interface of the Stamps.com client. This interface can be used to process an XML file and print shipping labels in batch. For more details on the Batch interface and how to import an XML file into it please refer to the Stamps.com Support Site at <a href="https://www.stamps.com/support">www.stamps.com/support</a>. If you are already a Stamps.com customer but do not have access to the Batch interface in the Stamps.com client, please contact customer support by phone or email at the Support Site listed above.

## Additional Ways to Process a Stamps.com XML file

Stamps.com will soon add additional ways to process an XML file using the client. These include the ability to request that a folder be monitored for XML files or have an XML file processed on demand.

## **Functions Supported**

The Stamps.com XML format will eventually support two functions –

- 1. Verifying Addresses
- 2. Printing Postage

However, only Print Postage is supported right now. This is because the Batch interface will perform any address verification required when an XML file is imported or when the user prints postage. Eventually, Address Verification will be available as a separate option wherein an XML file with just a list of addresses can be passed to the Stamps.com client. This list will be processed and a list of valid addresses (with modifications and corrections as required) or errors (where the address could not be verified at all) will be returned.

<sup>&</sup>lt;sup>1</sup> XML Stands for Extensible Markup Language and is a universal standard for representing any type of information. This enables different software to communicate using a standardized content format. For more details visit <a href="http://www.w3.org/standards/xml/">http://www.w3.org/standards/xml/</a>

## 2 Printing Postage

For the Stamps.com client to recognize an XML file and process its content, the file must follow a specific schema or standard.

#### **Root Node**

The Root element is the primary XML element within which the entire contents of the XML file must be contained. To print postage with the Stamps.com client the Root element must be <Print>.

The Print root element can contain three nodes -

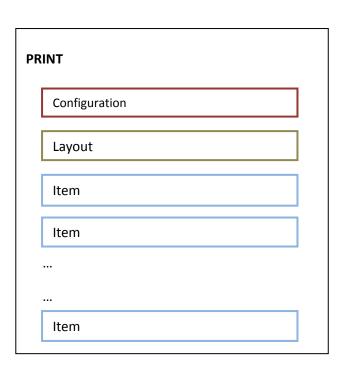
- Configuration This node can be used to specify configuration elements such as the printer to be used and the file name to which the output must be written. This is optional and can be ignored if desired, as most of these elements can be specified from within the Batch interface after the file has been imported.
- 2. Layout This can be used to specify what label or paper to print on.
- 3. Item This is the most important node in the XML file. Each separate postage print is considered an "item". Item nodes allow you to set all the information regarding the type of postage you want printed including the Mail Class, the variety of mailpiece, the weight, and most importantly the address of the recipient.

## **Example**

The Stamps.com XML file will look as shown below –

<print></print>	>
	<configuration></configuration>
	<layout></layout>
	<item></item>
	<item></item>
	 <item></item>

</Item>





# 3 Configuration

# **Specification**

The following table describes the structure of the Configuration node of the Stamps.com XML file.

**NOTE**: All rows below in italics are output fields that you do not have to specify in the input file.

Name		Туре	Content/ Values	Description
DesiredPrinter		Node		The DesiredPrinter is the printer that you would like the Stamps.com client to use. It allows you to set the Printer and the Tray (or bin) to which you would like to print.
	Name	String	Full path and name of printer	You can specify the printer that you would like to use for printing postage.
	Bin	String	Printer tray name	You can specify the tray to which postage is to be printed
MailingCutoffTime		time	Time	This field specifies a cutoff time. After this cutoff time postage will be dated for the following day if the Rollover element is set to True (see below). Time should be specified in "HH:MM:SS" (24-hour clock) format
Pr	rinterUsed	Node		This field specifies which printer was actually used to print postage. This is an output field only and need not be set by you.
	Name	String	Full path and name of printer	This field will specify the actual printer used
	Bin	String	Printer tray name	This field will specify the tray that postage was printed on
Re	ecipient Email Options	Node		This node is used to specify Email options for the recipient of the mailpiece
	ShipmentNotification	Boolean	True or False	If this is set to True, then a Shipment notification email will be sent to all recipients (unless overridden for specific recipients)
	companyInSubject	Attribute/ Boolean	True or False	This is an attribute of the ShipmentNotification element. If this is set to True, if your Company's name has been set in the My Account section, it will be

fromCompany	Attribute/ Boolean	True or False	used in the Subject line of the email ("Acme Inc. has sent you a package"). If this is set to false or not set at all, then the user name will be used in the subject line of the email ("John Smith has sent you a package")  This is an attribute of the ShipmentNotification element. If this is set to True, then the email will come from your company name (From: Acme Inc). If it is set to false, or not set then the email will come from the user's name (From: John Smith).
ResultFile	String	Full or relative path of file and file name	This element allows you to specify where the output should be written after postage is processed.
omitDesiredMailingDate	Attribute/ Boolean	True or False	This is an attribute of ResultFile. If this is set to True, then the DesiredMailingDate specified in the input file for each item will not be written to the output file
Rollover	Boolean	True or False	Indicates whether to automatically roll over mailing dates based on MailingCutoffTime. Default, if unspecified, is "true."
Sample	Boolean	True or False	Value indicates whether the contents of the Print node are to be printed as samples (no live postage). Default value, if unspecified, is "false."
Sender Email Options	Node		This node allows you to specify whether you wish to receive notifications when postage is printed (Shipment Notification) and when the mailpiece is delivered (Delivery Notification)
DeliveryNotification	Boolean	True or False	Set this to true if you want to be notified via email when the mailpieces in your file are delivered
ShipmentNotification	Boolean	True or False	Set this to true if you want an email notification providing information on the cost of postage and tracking number when postage is printed.
UI	Node		This node is used to specify which notifications should be provided when an XML file is being

processed. This is not being
elaborated upon now as the Batch
UI handles notifications as
requested by the user. This will be
available for future products that
do not require a UI or manual
processing.

# **Example**

A fully expanded Configuration node will look like this –

```
<Configuration>
      <ResultFile>c:\FolderName\FileName.xml</ResultFile>
      <DesiredPrinter>
            <Name>FinePrint</Name>
            <Bin>Tray 2</Bin>
      </DesiredPrinter>
      <MailingCutoffTime>17:30:00.0</MailingCutoffTime>
      <Rollover>false</Rollover>
      <SenderEmailOptions>
            <DeliveryNotification />
            <ShipmentNotification />
      </SenderEmailOptions>
      <RecipientEmailOptions>
            <ShipmentNotification companyInSubject="true"</pre>
            fromCompany="true" />
      </RecipientEmailOptions>
</Configuration>
```

# 4 Layout

# **Specification**

The following table describes the structure of the Layout Node.

**NOTE:** All rows below in italics are output fields that you do not have to specify in the input file.

Name	Туре	Content/ Values	Description
Actual	Node		This is an output only field that specifies information regarding the actual media used to print postage.
Media	Variable	One of the following -  • MediaID (int)  • MediaName (string)  • PaperID (int)  • PaperName (String)	This specifies the type of media you would like to print on. The Stamps.com client has a unique ID and name for every type of media that it can print on. The actual media used will be specified in one of the four types of inputs that the client recognizes in an XML file. For a full list of papers and media supported, refer to Appendices A and B.
StartCol	Positive Integer	X-Coordinate on sheet where printing started	This field will inform you of the column in which printing started on the sheet. (Most label sheets and layouts have an array of labels that appear in rows and columns on the sheet).
StartRow	Positive Integer	Y-Coordinate on sheet where printing started	This field will inform you of the row in which printing started on the sheet. (Most label sheets and layouts have an array of labels that appear in rows and columns on the sheet).
Desired	Node		This is the input field that you can use to specify information regarding the media that you want used to print postage.
Media	Variable	One of the following -  • MediaID (int)  • MediaName (string)  • PaperID (int)  • PaperName (String)	This specifies the type of media you would like to print on. The Stamps.com client has a unique ID and name for every type of media that it can print on. Specify the desired media you want to print on in one of the four types of inputs that the client recognizes in an XML

St	artCol	Positive Integer	X-Coordinate on sheet where printing started	file. The Batch interface only supports Paper types, so use a PaperID or PaperName in this case. For a full list of papers and media supported, refer to Appendices A and B.  You can set the column in which you want to start printing on the sheet. (Most label sheets and layouts have an array of labels that appear in rows and columns on the
St	artRow	Positive Integer	Y-Coordinate on sheet where printing started	sheet).  You can set the row in which you want to start printing on the sheet.  (Most label sheets and layouts have an array of labels that appear in rows and columns on the sheet).
St	yle	Node		This node can be used to customize your postage prints
	RecipientAddressFontNam e	String	Font Name	Specify the type of font you want the recipient address formatted in (e.g. Verdana, Helvetica, Times New Roman etc.). You can set any font installed on the machine where you are running the Stamps.com client.
	RecipientAddressFontSize	integer	Font Size in 99 format (specified as pt)	Set the size of the font for the Recipient Address. If this is not specified then the client will autosize for the best possible font size.
	ReturnAddressFontName	String	Font Name	Specify the type of font you want the return address formatted in (e.g. Verdana, Helvetica, Times New Roman etc.). You can set any font installed on the machine where you are running the Stamps.com client.
	ReturnAddressFontSize	Integer	Font Size in 99 format (specified as pt)	Set the size of the font for the Return Address. If this is not specified then the client will autosize for the best possible font size.
	ReturnAddressGraphic	string	File name with full or relative path	You can use this to specify if you want a graphic associated with a return address. The file has to be a bitmap.
Print	Receipt	Boolean	True or False	Specify whether you want to print a receipt for the labels you are printing. By default this is set to

"false."

# **Example**

```
<Layout>
      <Desired>
            <MediaName>Stamps.com SDC-1200 Standard 4x6
           label 2 per sheet</MediaName>
            <StartCol>1</StartCol>
            <StartRow>1</StartRow>
            <Style>
                  <IndiciumGraphic>XYZ</IndiciumGraphic>
                 <RecipientAddressFontName>Helvetica
                 ddressFontName>
                 <RecipientAddressFontSize>10</RecipientAddressFont</pre>
                  <ReturnAddressFontName>Arial/ReturnAddressFont
                 Name>
                 <ReturnAddressFontSize>11/ReturnAddressFontSize
                 <ReturnAddressGraphic>..\Folder\FileName.gif
                 ReturnAddressGraphic>
            </Style>
      </Desired>
      <PrintReceipt>true</printReceipt>
</Layout>
```

# 5 Item

# **Specification**

The following table describes the structure of the Item node. You can place as many item nodes with the <Print> root node as you need. Each Item node represents a separate postage print.

**NOTE:** All rows below in italics are output fields that you do not have to specify in the input file.

Na	me	Type Content/ Values		Description	
Ac	ualMailingDate	date	Date	This is the mailing date on the postage printed. This can vary from today if you requested a future mailing date or if the MailingCutoffTime was reached when this item was processed.	
Cu	stomsInfo	Node		This node can be used to specify customs information for mailpieces you are shipping to international locations.	
	CommercialSampleInfo	Node		This element can only appear when the ContentsType value (see below) is "commercial sample." It must be absent in all other cases.	
	Certificate	token	Alphanumeric. Max. Length: 26	The certificate number on your export license if you have one	
	Invoice	token	Alphanumeric. Max. Length: 22	Invoice number on any invoices you include with the mailpiece	
	License	token	Alphanumeric. Max. Length: 26	The license number for items that have export restrictions	
	Contents	Node		This node should be used to specify details of the items included in the mailpiece.	
	Item	Node		Include 1 item node for each item included in the mailpiece.	
	CountryOfOrigin	token	Name of Country	This is the country from which the item being mailed was sourced from. This element is required when the customs ContentsType (see below) for the hosting Item contains "commercial sample". It is ignored otherwise.	
	Description	string	Alphanumeric. Max length: 31 characters.	A short description of the item.	
	HarmonizedTariffCode	string	Alphanumeric.	The Harmonized System tariff	

	Quantity	integer decimal	Number. Minimum: 1 Number in 999.99 format. Minimum	number is used to quantify total U exports, and is used by the destination country to assign a tariff rate. Providing this number allows the customs officials to assign a tariff without having to interpret the item description to determine the duty. This speeds customs clearance. This number is optional.  Specify the number of items of the same type  Specify the total value of the item (or items if multiple of the same item are being shipped).
	WeightLb	decimal	amount is 0.01  Non-negative number in 999.99 format. Minimum: 0.	Weight of item in pounds
	WeightOz	decimal	Non-negative number in 999.99 format. Minimum: 0.	Weight of item in ounces. This can be combined with WeightLb.
Cor	ntentsType	string	One of the following:  commercial sample document gift other return	This specifies the type of contents being sent. All items in the mailpiece must have the same typ of content.
Dec	claredValue	decimal	Number in 99999.99. Min: 0	Total value of all items in the mailpiece. The individual values must add up to this value. This is a required value.
Oth	ner Contents Info	token	Alphanumeric. If ContentsType = "Other," Max. length = 15 characters. Else Max. length = 60 characters	This field is associated with ContentsType and is a This elemer is ignored when the ContentsType value is "commercial sample."
Use	erAcknowledged	boolean	True or False	Set this value to "true" to acknowledge acceptance of the USPS Privacy Act Statement and also the Content Restrictions and

DesiredMailingDate	date or number	date in yyyy- mm-dd format or a number between 0 and 7	Prohibitions for the country you are sending the mailpiece to. If this is set to "false," the label will not be printed. This is a required field.  If present, must contain either a specific date greater than or equal to the current date (formatted yyyy-mm-dd) or an integer value greater than zero representing a positive number of business days to be added to the current date.
DeviceID	token		This field is automatically generated in print result output, this element contains the USPS ID of the meter that printed the mailpiece. This will be ignored, if present, on input
GlobalMailService	string	One of the following values  -  • express • express flat rate envelope • first class flat • first class parcel • priority • priority flat rate box • priority flat rate envelope • priority large flat rate box • priority small flat rate box	The Stamps.com XML specification provides two means to specify the mail class and mailpiece types for international mailpieces. For international mail you can set the mailpiece and mail class combination in this field or you can set them separately in the mail class and mailpiece fields (see below). If both are set the GlobalMailService overrides the mail class and mailpiece values.
HidePostageAmount	boolean	True or False Default: False	You can specify whether you want the postage amount hidden.
Identity	string	Internal Use Only	This is an INTERNAL field Stamps.com uses for its own Item identification purposes.
ItemOrigin	Node		This node specifies what data source the item is from. This is an output-only field generated when exporting an XML file from the Batch interface of the client.
ShippingProfile	Node		
DisplayName	string	Alphanumeric	Name of the profile that the item is

				from
	Identity	string	Alphanumeric	This is an internal identifier for the profile
LayoutStyle		Node		This node can be used to override the layout style set in the Layout section described above. This is useful if you are printing a combination of mailpieces that may require different layouts, e.g. when you are printing postage for domestic and international mailpieces you may not be able to use the same layout for both.
	RecipientAddressFontName	string	Font Name	Specify the type of font you want the recipient address formatted in (e.g. Verdana, Helvetica, Times New Roman etc.). You can set any font installed on the machine where you are running the Stamps.com client.
	RecipientAddressFontSize	integer	Font Size in 99 format (specified as pt)	Set the size of the font for the Recipient Address. If this is not specified then the client will autosize for the best possible font size. This overrides the value set in the Layout Node.
	ReturnAddressFontName	string	Font Name	Specify the type of font you want the return address formatted in (e.g. Verdana, Helvetica, Times New Roman etc.). You can set any font installed on the machine where you are running the Stamps.com client.
	ReturnAddressFontSize	integer	Font Size in 99 format (specified as pt)	Set the size of the font for the Return Address. If this is not specified then the client will autosize for the best possible font size. This overrides the value set in the Layout Node.
	ReturnAddressGraphic	string	File name with full or relative path	You can use this to specify if you want a graphic associated with a return address. The graphic has to be bitmap file.
MailClass		string	One of the following values  -  express first class	This the Mail Class of the mailpiece. This is required for all domestic mailpieces, and for any international mailpieces where GlobalMailService is absent.

		<ul> <li>media mail</li> <li>parcel post</li> <li>priority</li> <li>international first class</li> <li>international priority</li> <li>international express</li> </ul>	
MailingCutoffTime	time	Time in "HH:MM:SS" format (24-hour clock)	This field specifies a cutoff time. After this cutoff time postage will be dated for the following day if the Rollover element is set to "true" (see below). This field overrides the value set in the Configuration section described above.
Mailpiece	string	One of the following values  -  • flat rate envelope  • flat rate priority box  • large flat rate priority box  • large package  • non-standard envelope  • oversized package  • package  • package  • postcard  • small flat rate priority box  • thick envelope	This is the mailpiece type This is required for all domestic mailpieces, and for any international mailpieces where GlobalMailService is absent. (Use non-standard envelopes if you are shipping Flats).
NonDeliveryOption	string	one of the following –  • abandon  • return to sender	This is for international mail. It specifies what to do if the mailpiece cannot be delivered.
Nonmachinable	boolean	True or False Default: False	Use this to specify if the package is oddly shaped and cannot be processed by automated equipment
OrderDate	date or string	Either a date field or "today"	This element provides a place to store the date of the order for

				lately also taken to be to a control of
			to represent	which the item is being printed.
			today's date	Special value "today" means date
		_		of Print document execution.
Or	derID	token	Alphanumeric	A user-provided foreign key that
				associates the mailpiece with a
				record in the user's shipping
				database. It is copied into print
				results when printing a batch.
Pa	ckageDimensionsValue	Node		This field can be used to set the
				dimensions of the mailpiece. The
				dimensions can be specified either
				as a dimension set stored in the
				client (this is a combination of L, W
				and H) or as separate values for
				length, width and height. Only one
				or the other is required not both.
$\vdash$	PackageDimensionSet	string	Name of	If you have saved any dimension
		50,1116	Dimension Set	sets in the Stamps.com client, you
			Difficusion Sec	can simply specify the name of the
				dimension set.
	DackagoDimonsions	Node		You can also specify the dimension
	PackageDimensions	Node		· · ·
				details individually. You do not
				have to specify both a
				PackageDimensionSet and
-	T =	<u> </u>	<u> </u>	PackageDimensions
	BoxLike	boolean	True or False	Set this to "false" if the package is
			Default: True	not rectangular
	Height	integer	Number	Height of the mailpiece
			Min Value: 1	
	Length	integer	Number	Length of the mailpiece
			Min Value: 1	
	Width	integer	Number	Width of the mailpiece
			Min Value: 1	
Po.	stageCost	Node		This is an output field that specifies
				the cost of postage printed. NOTE:
				Actual total cost you have incurred
				will include the amount specified in
				SDCCost (in addition to
				PostageCost)
$\Box$	MailClass	decimal	Number in	This is the base amount paid for the
		300	999.99 format.	Item's postage based on its mail
			Minimum	class and mailpiece type. This does
			amount is 0.01	not include cost of special services
			ainount is 0.01	and insurance.
	Services	Node	+	
	JEI VILES	Noue		This node contains the cost of
				individual Special Services. This
				node will have values only for
				Special Services you have requested

			and any services required by the particular mail class.
CertifiedMail	decimal	Number in 999.99 format. Minimum amount is 0.01	This is the cost of Certified Mail.
COD	decimal	Number in 999.99 format. Minimum amount is 0.01	This is the cost of Collect On Demand (C.O.D).
DeliveryConfirmation	decimal	Number in 999.99 format. Minimum amount is 0.01	This is the cost of Delivery Confirmation.
Nonmachinable	decimal	Number in 999.99 format. Minimum amount is 0.01	This is the additional cost required if your mailpiece is oddly-shaped otherwise non-machinable.
NoticeOfNonDelivery	decimal	Number in 999.99 format. Minimum amount is 0.01	This is a sub-service to Collect On Delivery. This is optionally available only when you choose Collect On Delivery.
RegisteredMail	decimal	Number in 999.99 format. Minimum amount is 0.01	This is the cost of Registered Mail
RestrictedDelivery	decimal	Number in 999.99 format. Minimum amount is 0.01	This is the cost of Restricted Delivery. Restricted Delivery service ensures that only a specified personal will receive the particular mailpiece. This service is only available if you also purchase Certified Mail, Insured Mail, COD, or Registered Mail.
ReturnReceipt	decimal	Number in 999.99 format. Minimum amount is 0.01	This is the cost of requesting a return receipt.
ReturnReceiptForMercha ndise	decimal	Number in 999.99 format. Minimum amount is 0.01	This is the cost of requesting a return receipt for merchandise.
SignatureConfirmation	decimal	Number in 999.99 format. Minimum amount is 0.01	This is the cost of Signature Confirmation.
SundayHolidayDelivery	decimal	Number in	This is the cost of requesting

			Minimum amount is 0.01	(only available with Express Mail)
	USPSInsurance	decimal	Number in 999.99 format. Minimum amount is 0.01	This is the cost of insuring the package with the USPS.
T	otal	decimal	Number in 999.99 format. Minimum amount is 0.01	Total cost of postage and special services.
Print	DateTime	dateTime	Date and Time	This is the time and date at which postage was printed.
Print	edMemo	token	Alphanumeric	You can use this field to request that a reference number of other memo be printed on to the label.
Print	rID	unsigned Long	Numeric	This is an identifier field automatically generated when postage is printed.
	rient	String	One of the following –  • printed  • printed sample  • failed to print  • canceled  • service not supported  • issued but not printed	This field specifies whether postage was successfully printed or not for the item. To account for the unlikely scenario that postage was deducted from your account but no label was printed, we have a "issued but not printed" status. However, since postage is deducted just before the print is fired, this would not occur under most circumstances.
Keci	oient	Node		This field should be used to specify the address of the recipient for the mailpiece.
Α	ddressFields	Node		
	Address1	token	Alphanumeric	Address Line 1
	Address2	token	Alphanumeric	Address Line 2
	Address3	token	Alphanumeric	Address Line 3
	Address4	token	Alphanumeric	Address Line 4
	Address5 Address6	token token	Alphanumeric Alphanumeric	Address Line 5 Address Line 6
	Address7	token	Alphanumeric	Address Line 7
	City	token	Alphanumeric	Name of City
	Company	token	Alphanumeric	Name of Company
	Country	token	Alphanumeric	Name of Country
	Department	token	Alphanumeric	Name of Department
	EmailAddresses	Node		You can specify up to six email addresses. NOTE: Only one of these email addresses is currently used

				by the Stamps.com client.
	OrderedEmailAddress	Node		Use this field if you wish to specify
	es			a list of unnamed email addresses
				You can specify up to six.
	Address	token	Alphanumeric	Email address of your choice for
				this recipient.
Fi	rstName	token	Alphanumeric	First name of the recipient.
Fι	ıllName	token	Alphanumeric	You can use this instead of
				specifying first, middle and last
				names.
La	ıstName	token	Alphanumeric	Last Name of the recipient
M	iddleName	token	Alphanumeric	Middle Name of the recipient
Μ	ultilineAddress	Node		If you prefer, you can simply use
				this field to specify each line of th
				address. If you do this you need n
				fill in any of the address fields
				above except email address and
				phone number.
	Line	token	Alphanumeric	Specify each line of the address in
		Conton	,	<line> element.</line>
N	amePrefix	token	Alphanumeric	This is the prefix for the user's
	amer renx		/ iipiiaiiaiiieiie	name such as "Ms.", "Mr." or
				"Mrs."
N	ameSuffix	token	Alphanumeric	This is the suffix for the user's
	amesamx	token	/ iipiiaiiaiiieiie	name such as "Jr.", "Sr.", "IV" etc
Ρŀ	noneNumbers	Node		You can specify either four named
•	TOTICI VALITIDE 13	Node		phone numbers or six unnamed
				phone numbers for the recipient.
	OrderedPhoneNumbe	Node		Use this section to specify up to s
	rs	Nouc		unnamed phone numbers. NOTE:
	13			Only one phone number is
				currently processed by the
				Stamps.com client.
	Number	token	Alphanumeric	Specify each phone number withi
	Number	token	Aiphanamene	a <number> element.</number>
D۱	ostalCodeValue	Node		Use this section to provide either
	ostaicode value	Noue		the international postal code or t
				US ZIP code
	PostalCode	token	Alphanumeric	Postal code for International
	rustaicuue	LUKEII	Aiphanument	addresses
	710	tokon	Alphanumoric	ZIP code for domestic addresses
D.	ZIP egionValue	token Node	Alphanumeric	
Ľί	ERIOTIVATUE	Node		Use this section to specify either
				the province (international) or
	Dunidana	+-1	A limbario e e e e	state (domestic)
	Province	token	Alphanumeric	Province (or other national
				subdivision such as department,
				county, prefecture, state) for

				international addresses
	State	token	Alphanumeric	State for domestic addresses
	Title	token	Alphanumeric	Title of the recipient ("CEO","Vice
		token	·	President" etc.)
	Urbanization	token	Alphanumeric	This is an additional address
				specification unique to Puerto Rico
	ZIPAddOn	token	Alphanumeric	This is the four digit add-on to the ZIP code. This is appended to the
				ZIP code with a '-'.
Reci	pient Email Options	Node		This node is used to specify Email
				options for the recipient of the
				mailpiece.
S	hipmentNotification	Boolean	True or False	If this is set to "true", then a
				Shipment notification email will be
				sent to all recipients (unless
				overridden for specific recipients)
	companyInSubject	Attribute/	True or False	This is an attribute of the
		Boolean		ShipmentNotification element. If
				this is set to "true", then if your
				Company's name has been set in
				the My Account section, it will be
				used in the Subject line of the email
				("Acme Inc. has sent you a
				package"). If this is set to "false" or
				not set at all, then the user name
				will be used in the subject line of
				the email ("John Smith has sent
				you a package")
	fromCompany	Attribute/	True or False	This is an attribute of the
		Boolean		ShipmentNotification element. If
				this is set to "true" then the email
				will come from your company
				name (From: Acme Inc). If it is set
				to "false" or not set, then the email
				will come from the user's name
				(From: John Smith).
RefC	Code	token	Alphanumeric	This is the Cost Code that you wish
				to associate with the mailpiece in
				your Stamps.com history
Refu	ndType	string	e-Refund or	This is an output field that specifies
			Mail-in	whether you can request a refund
				online or will have to mail in refund
				forms.
Rollo	over	boolean	True or False	You can specify whether you want
				to change the mailing date on the
				mailnings if the mailing outoff time
				mailpiece if the mailing cutoff time
				has been reached. If you set this

			in the configuration section
SDCCost SDCCost	Node		This output node specifies the cost
			charged by Stamps.com for any
			special services provided by us.
SDCInsurance	decimal	Non-negative,	This is the cost of insuring the
		non-zero	mailpiece using Stamps.com
		number in 99.99	insurance.
		format	
Sender	Node		This is the contact information for
			the sender of the mailpiece. The
			sender contact information has
			almost exactly the same structure
			as the recipient's address. The only
			difference is that the
			"AddressFields" sub-node that
			wraps the contact information is
			not required here.
Address1			Refer to Recipient Address
			Information for all Contact
			Information.
Address2			Same as above
Address3			Same as above
Address4			Same as above
Address5			Same as above
Address6			Same as above
Address7			Same as above
City			Same as above
Company			Same as above
Country			Same as above
Department			Same as above
DisplayName			Same as above
EmailAddresses			Same as above
OrderedEmailAddresses			Same as above
Address			Same as above
Address			Same as above
FirstName			Same as above
FullName			Same as above
LastName			Same as above
MiddleName			Same as above
MultilineAddress			Same as above
Line			Same as above
NamePrefix			Same as above
NameSuffix			Same as above
PhoneNumbers			Same as above

OrderedPhone	Numbers		Same as above
Number			Same as above
PostalCodeValue			Same as above
PostalCode			Same as above
ZIP			Same as above
RegionValue			Same as above
Province			Same as above
State			Same as above
Title			Same as above
Urbanization			Same as above
ZIPAddOn			Same as above
Sender Email Options	Node		If the Item/SenderEmailOptions element is present, its contents supersede those of the Configuration/SenderEmailOptions element in their entirety. This includes the scenarios where you add the SenderEmailOptions node here but do not add a DeliveryNotification element to it. In this case, even if the Configuration/SenderEmailOptions has a DeliveryNotification element it will be ignored and the default value used.
DeliveryNotificati	on Boolean	True or False	Set this to "true" if you want to be notified via email when this mailpiece is delivered.
ShipmentNotifica	tion Boolean	True or False	Set this to "true" if you want an email notification providing information on the cost of postage and tracking number when postage is printed for this mailpiece.
Services	Node		Use this node to specify what special services you require.
CertifiedMail	Boolean	True or False	Set this to "true" if you want to use the Certified Mail special service with the mailpiece.

COD	Boolean	False or Number	If this value is set to "false" or not
	or decimal	in 999.99 format. Default: False	set, the mailpiece will not be subject to Collect on Delivery. Set the amount to be collected to request Collect on Delivery.
ConfirmationService	Node		Specifies the type of tracking you require.
DeliveryConfirmation	Boolean	True or False. Default: true	If this value is set to "false", then the mailpiece will not come with Delivery Confirmation. Note that many mail classes come with free Delivery Confirmation already included, unless Signature Confirmation is selected, overriding the choice. Also note that if you see Signature Confirmation to "true", this entry will not appear in the XML file.
SignatureConfirmation	boolean	True or False Default: True	If this value is set to "false", then the mailpiece will not come with Signature Confirmation. Note that if you set Delivery Confirmation to "true", this entry will not appear in the XML file.
InsuranceService	Node		The two sub-elements are substitution elements: only one of the other can be present in any particular item at one time. Note that any mail services that automatically include insurance and not included in this element.
SDCInsurance	Boolean or decimal	False or numeric value in 9999.99 format. Minimum value: 0.01.	If this value is set to "false", the order will not include SDC Insurance. Otherwise, the value w be the declared value of the package being insured. The maximum value permissible is \$2,500.
USPSInsurance	Boolean	False or numeric value in 999.99 format. Minimum value: 0.01	If this value is set to "false", the order will not include USPS Insurance. Otherwise, the value w be the declared value of the package being insured. The maximum value permissible is \$5,000.
NoSaturdayDelivery	boolean	True or False. Default: False	If this is set to "true", then you are requesting that the mailpiece not be delivered on a Saturday. This is

			only available with Express Mail Classes.
NoticeOfNonDelivery	boolean	True or False. Default: False	This is only available with Collect on Delivery. If this is set to "true", then you will be notified if the mailpiece could not be delivered.
RegisteredMail	Boolean or Numeric Value	False or numeric value in 99999.99 format. Default: False	Registered Mail is the most secure Special Service available. Registered articles are shipped under tight security from the poin of mailing to the point of delivery. Insurance coverage of up to \$25,000 is included. Articles with no declared value are not insured. Set this to "false" or ignore it if yo do not want registered mail. Otherwise, set the declared value of the registered article.
Restricted Delivery	boolean	True or False. Default: False	Restricted Delivery service ensure that only a specified person will receive the mailpiece. This service is only available if you also purchase Certified Mail, Insured Mail, Collect on Delivery, or Registered Mail. Set this field to "true" if you want Restricted Delivery.
ReturnReceipt	boolean	True or False. Default: False	This provides a mailer with evidence of delivery (to whom the mail was delivered and date of delivery), along with information about the recipient's actual delivery address. Set this to "true" if you want to receive a Return Receipt.
ReturnReceiptForMerchandi se	boolean	True or False. Default: False	This is a return receipt for merchandise. Set the value to "true" if you want to receive a Return Receipt for Merchandise.
SundayHolidayDelivery	boolean	True or False. Default: False	If you are choosing Express Mail you can request delivery on Sundays and holidays at extra cost Set this field to "true" if you would like your mailpiece to be delivered on Sundays and holidays.
WaiveDeliverySignature	boolean	True or False. Default: False	Set this to true if you do not require a signature when the mailpiece is delivered for domesti

			Express Mail service.
TrackingNumber	token	Numeric	This is an output field that provides the tracking number of the mailpiece after postage has been printed.
WeightLb	decimal	Non-negative number in 99.99 format	Use this field to specify the weight of the mailpiece in pounds.
WeightOz	decimal	Non-negative number in 99.99 format	Use this field to specify the weight of the mailpiece in ounces.

## **Example**

The following sections show examples of the item node for domestic and international mailpieces -

#### **Domestic**

```
<Item>
     <OrderDate>today</OrderDate>
      <OrderID>000015</OrderID>
      <PrintedMemo>Date 2009-07-
     12T20:49:07Z</PrintedMemo>
      <Services>
           <CertifiedMail />
            <DeliveryConfirmation />
      </Services>
      <Recipient>
           <AddressFields>
                 <NamePrefix>Mr.</NamePrefix>
                 <FirstName>Joseph</FirstName>
                 <LastName>Smith</LastName>
                 <MultilineAddress>
                       <Line>Smith Co.</Line>
                       <Line>413 BUTTERMILK
                       PIKE</Line>
                 </MultilineAddress>
                 <City>Crescent Springs</City>
                 <State>KY</State>
                 <ZIP>41017-1638</ZIP>
                 <Country>United States of
                 America</Country>
                 <OrderedEmailAddresses>
                       <Address>xyz@abc.com</Address
                 </OrderedEmailAddresses>
                 <OrderedPhoneNumbers>
                       <Number>(818) 840-
                 3614</Number>
                 </OrderedPhoneNumbers>
```

```
</AddressFields>
      </Recipient>
      <MailClass>media mail</MailClass>
      <Mailpiece>package</Mailpiece>
      <WeightOz>1</WeightOz>
      <PackageDimensionSet>A-type Widget
      Box</PackageDimensionSet>
      <Sender>
            <Company>Acme Widgets, Inc.</Company>
            <Address1>12959 Coral Tree PI</Address1>
           <City>Los Angeles</City>
           <State>CA</State>
           <ZIP>90066</ZIP>
           <ZIPAddOn>7020</ZIPAddOn>
           <DisplayName>Acme Widgets
      </Sender>
</Item>
International
<Item>
      <OrderDate>today</OrderDate>
      <OrderID>I00001</OrderID>
      <Recipient>
           <AddressFields>
                 <FullName>Joe Smith</FullName>
                 <Address1>209 Gardiner
                 House</Address1>
                 <Address2>Broomhill Road</Address2>
                 <City>London</City>
                 <PostalCode>SW18 4JQ</PostalCode>
                 < Country > United Kingdom (Great
                 Britain)</Country>
                 <OrderedPhoneNumbers>
                       <Number>12-34567</Number>
                 </OrderedPhoneNumbers>
                 <OrderedEmailAddresses>
                       <address>xyz@abc.com</address
                 </OrderedEmailAddresses>
            </AddressFields>
      </Recipient>
      <GlobalMailService>priority flat rate box</GlobalMailService>
      <WeightOz>320</WeightOz>
      <NonDeliveryOption>return to sender</NonDeliveryOption>
      <CustomsInfo>
            <Contents>
                 <Item>
                       <Description>Tank
                       tops</Description>
```

```
<Quantity>10</Quantity>
                       <Value>50.00</Value>
                       <WeightOz>32</WeightOz>
                       <HarmonizedTariffCode>610510/H
                       armonizedTariffCode>
                       <CountryOfOrigin>Kwajalein,
                       Marshall
                      Islands</CountryOfOrigin>
                 </Item>
           </Contents>
           <ContentsType>commercial
           sample</ContentsType>
           <CommercialSampleInfo>
                 <Certificate>C4321</Certificate>
                 <Invoice>I2345</Invoice>
                 <License>L987</License>
           </CommercialSampleInfo>
           <DeclaredValue>50.00
           <UserAcknowledged />
     </CustomsInfo>
     <Sender>
           <FullName>Jane Smith</FullName>
           <Company>Acme Widgets, Inc.</Company>
           <Address1>12959 Coral Tree PI</Address1>
           <City>Los Angeles</City>
           <State>CA</State>
           <ZIP>90066</ZIP>
           <ZIPAddOn>7020</ZIPAddOn>
           <DisplayName>Acme Widgets
           <OrderedPhoneNumbers>
                 <Number>3105551212</Number>
           </OrderedPhoneNumbers>
     </Sender>
     <RefCode>test1</RefCode>
     <RecipientEmailOptions>
           <ShipmentNotification>false/ShipmentNotification>
     </RecipientEmailOptions>
</Item>
```

# 6 Full Example

The following is a full, functional example of a Stamps.com XML file for printing postage —

```
<?xml version="1.0" ?>
<Print
xmlns="http://stamps.com/xml/namespace/2009/8/Client/BatchProcessing
V1">
      <Configuration>
            <ResultFile>c:\MailClassResults\printed-a-shipping-
            batch.xml</ResultFile>
            <DesiredPrinter>
                   <Name>FinePrint</Name>
                   <Bin>Tray 2</Bin>
            </DesiredPrinter>
            <MailingCutoffTime>17:30:00.0</MailingCutoffTime>
            <Rollover>false</Rollover>
            <SenderEmailOptions>
                   <DeliveryNotification />
                   <ShipmentNotification />
            </SenderEmailOptions>
            <RecipientEmailOptions>
                   <ShipmentNotification companyInSubject="true"</pre>
                  fromCompany="true" />
            </RecipientEmailOptions>
      </Configuration>
      <Layout>
            <Desired>
                   < MediaName > Stamps.com SDC-1200 Standard
                  4x6 label 2 per sheet</MediaName>
                   <StartCol>1</StartCol>
                   <StartRow>1</StartRow>
                   <Style>
                         <IndiciumGraphic>XYZ</IndiciumGraphic>
                         <RecipientAddressFontName>Helvetica/Reci
                         pientAddressFontName>
                         <RecipientAddressFontSize>10</RecipientAddr</pre>
                         essFontSize>
                         <ReturnAddressFontName>Arial/ReturnAddr
                         essFontName>
                         <ReturnAddressFontSize>11/ReturnAddressF
                         ontSize>
                         <ReturnAddressGraphic>..\Folder\FileNam
                         e.gif</ReturnAddressGraphic>
                   </Style>
            </Desired>
            <PrintReceipt>true</printReceipt>
      </Layout>
      <Item>
            <OrderDate>today</OrderDate>
```

```
<OrderID>000015</OrderID>
     <PrintedMemo>Date 2009-07-
     12T20:49:07Z</PrintedMemo>
     <Services>
           <CertifiedMail />
           <DeliveryConfirmation />
     </Services>
     <Recipient>
           <AddressFields>
                 <NamePrefix>Mr.</NamePrefix>
                 <FirstName>Joseph</FirstName>
                 <LastName>Smith</LastName>
                 <MultilineAddress>
                       <Line>Smith Co.</Line>
                       <Line>413 BUTTERMILK
                       PIKE</Line>
                 </MultilineAddress>
                 <City>Crescent Springs</City>
                 <State>KY</State>
                 <ZIP>41017-1638</ZIP>
                 <Country>United States of
                 America</Country>
                 <OrderedEmailAddresses>
                       <Address>xyz@abc.com</Address
                 </OrderedEmailAddresses>
                 <OrderedPhoneNumbers>
                       <Number>(818) 840-
                 3614</Number>
                 </OrderedPhoneNumbers>
           </AddressFields>
     </Recipient>
     <MailClass>media mail</MailClass>
     <Mailpiece>package</Mailpiece>
     <WeightOz>1</WeightOz>
     <PackageDimensionSet>A-type Widget
     Box</PackageDimensionSet>
     <Sender>
           <Company>Acme Widgets, Inc.</Company>
           <Address1>12959 Coral Tree PI</Address1>
           <City>Los Angeles</City>
           <State>CA</State>
           <ZIP>90066</ZIP>
           <ZIPAddOn>7020</ZIPAddOn>
           <DisplayName>Acme Widgets
     </Sender>
</Item>
<Item>
     <OrderDate>today</OrderDate>
     <OrderID>I000001</OrderID>
```

```
<Recipient>
     <AddressFields>
           <FullName>Joe Smith</FullName>
           <Address1>209 Gardiner
           House</Address1>
           <Address2>Broomhill Road</Address2>
           <City>London</City>
           <PostalCode>SW18 4JQ</PostalCode>
           < Country > United Kingdom (Great
           Britain)</Country>
           <OrderedPhoneNumbers>
                 <Number>12-34567</Number>
           </OrderedPhoneNumbers>
           <OrderedEmailAddresses>
                 <Address>xyz@abc.com</Address
           </OrderedEmailAddresses>
     </AddressFields>
</Recipient>
<GlobalMailService>priority flat rate box</GlobalMailService>
<WeightOz>320</WeightOz>
<NonDeliveryOption>return to sender
<CustomsInfo>
     <Contents>
           <Item>
                 <Description>Tank
                 tops</Description>
                 <Quantity>10</Quantity>
                 <Value>50.00</Value>
                 <WeightOz>32</WeightOz>
                 <HarmonizedTariffCode>610510/H
                 armonizedTariffCode>
                 <CountryOfOrigin>Kwajalein,
                 Marshall
                 Islands</CountryOfOrigin>
           </Item>
     </Contents>
     <ContentsType>commercial
     sample</ContentsType>
     <CommercialSampleInfo>
           <Certificate>C4321</Certificate>
           <Invoice>I2345</Invoice>
           <License>L987</License>
     </CommercialSampleInfo>
     <DeclaredValue>50.00
     <us>UserAcknowledged />
</CustomsInfo>
<Sender>
     <FullName>Jane Smith</fullName>
     <Company>Acme Widgets, Inc.</Company>
```

```
<Address1>12959 Coral Tree PI</Address1>
                <City>Los Angeles</City>
                <State>CA</State>
                <ZIP>90066</ZIP>
                <ZIPAddOn>7020</ZIPAddOn>
                <DisplayName>Acme Widgets
                <OrderedPhoneNumbers>
                      <Number>3105551212</Number>
                 </OrderedPhoneNumbers>
           </Sender>
           <RefCode>test1</RefCode>
           <RecipientEmailOptions>
                <ShipmentNotification>false/ShipmentNotification>
           </RecipientEmailOptions>
     </Item>
</Print>
```

## 7 XML Pre-Processing

The Stamps.com client helps simplify the process of generating XML files through its pre-processor capabilities. Let's say you mail a lot of Priority Mail two-pound boxes. You do not have to specify the mailclass and mailpiece in every single item. You can provide this information once and then refer to it in various sections of the order's XML file. For instance, you can in essence tell the Stamps.com client, "if I refer to 'PMFRB', then my mail class is 'Priority Mail' and my mailpiece is 'flat rate Priority box'." Thereafter, any time you refer to "PMFRB" the client will automatically replace all instances of the reference to "PMFRB" with the correct mail class and mail piece before processing the orders in the file.

## **Pre-Processing Attributes**

You can use the following four attributes to provide pre-processing instructions to the Stamps.com client –

- 1. **abstract** This attribute informs the Stamps.com client that the information contained in an element is a pre-processing instruction.
- 2. **xml:id** This attribute specifies the name of the pre-processing instruction. In the above example this would be set to "PMFRB". This name should be referred to in the document when you want the values specified under it to be used.
- 3. **ref** This attribute will be used to refer to a particular xml:id. The values from the referred xml:id will automatically be used when processing orders.
- 4. path This attribute is useful when the pre-processing instructions are in a different file.

## **Inline Pre-processing**

```
Consider the following example -
<Print>
       <Item abstract="yes" xml:id="PMFRB">
              <MailClass>priority</MailClass>
              <MailPiece>flat rate priority box </MailPiece>
       </Item>
       <Item ref="PMFRB">
              <Recipient>
              <!--
              -->
              </Recipient>
       </Item>
</Print>
This would be converted to
<Print>
       <Item>
              <MailClass>priority</MailClass>
              <MailPiece>flat rate priority box </MailPiece>
              <Recipient>
                     <!--
                     . . .
                     -->
```

```
</Recipient>
</Item>
</Print>
```

</Layout>

Notice how the abstract Item was removed and its elements placed into the actual Item. By specifying "abstract", you can ensure that the item is not processed as a real Item but purely as a pre-processing reference for all the real Items (or orders) in your XML file

#### **Using an External File for Pre-processing**

```
Consider the following example -
File globals.xml contains the following -
<Globals>
       <Configuration xml:id="global config">
             <DesiredPrinter>
                    <Name>\\folder\PrinterName</Name>
             </DesiredPrinter>
      </Configuration>
       <Layout xml:id="global layout">
             <Desired>
                    <MediaID>1000</MediaID>
             </Desired>
       </Layout>
</Globals>
Your orders file contains the following
       <Configuration ref="global config" path="globals.xml" />
      <Layout ref="global layout" path="globals.xml" />
       <Item>
             <MailClass>priority</MailClass>
             <MailPiece>flat rate priority box </MailPiece>
             <Recipient>
                    <!--
                    -->
             </Recipient>
      </Item>
</Print>
This would be converted to -
<Print>
       <Configuration xml:id="global config">
             <DesiredPrinter>
                    <Name>\\folder\PrinterName</Name>
             </DesiredPrinter>
       </Configuration>
       <Layout xml:id="global layout">
             <Desired>
                    <MediaID>1000</MediaID>
             </Desired>
```

Notice how "global config" and "global layout" elements in globals.xml were inserted into your order's xml file

You can also do the same thing without using the "ref" attribute if you want all the contents of your external file inserted. Consider the following example

If **globals.xml** contained the following

```
<Item>
       <MailClass>priority</MailClass>
</Item>
And your order's XML file contained the following -
<Print>
       <Item path="globals.xml">
              <Recipient>
              <!--
              -->
              </Recipient>
       </Item>
</Print>
After pre-processing by the Stamps.com client, your order's XML file will be converted to –
<Print>
       <Item>
              <MailClass>priority</MailClass>
              <Recipient>
              <!--
              . . .
              -->
              </Recipient>
       </Item>
</Print>
```

Using the pre-processing capabilities of the Stamps.com XML format has many advantages. Configuration and Layout information can be set up in separate files so that when you have to change them, you do not have to rewrite your software to generate the new configuration information. All you have to do is edit your "config" and "layout" file(s) and you can quickly switch the printer or layout you wish to use. Using references makes your XML files easier to read and scan visually.

# 8 Appendix

# A - Paper IDs and Paper Names Supported

Paper ID	Display Name	Size
1	Plain Paper (letter) – 1 per page	8 ½" X 11"
2	Generic – Standard 4x6 label – 2 per sheet	8 ½" x 11"
3	Zebra/Eltron Type – Standard 4x6 label roll	4" x 6"

#### NOTE:

- 1. If you are not sure of what Paper ID you need to use Appendix B shows the corresponding Paper Name for various types of Media.
- 2. When printing international labels that use the CN22/2976 integrated customs form you will not be able to print on PaperID 3 (Zebra/Eltron Thermal Label Rolls).
- 3. If you are printing international labels that use the CP72/2976-A multi-page form you can only print to PaperID 1 (Plain Paper).

# **B - Media IDs and Media Names Supported**

Media ID	Type of Media	Paper Type Supported
38	4" x 6" Zebra/Eltron Printers	Zebra/Eltron Type – Standard 4x6 label – roll (Label)
77	4" x 6" for Zebra/EltronPrinters	Zebra/Eltron Type – Standard 4x6 label – roll (label)
402	Avery 32402 - Standard 4x6 label - 2 per sheet	Generic Standard 4x6 label – 2 per sheet (DoubleLabel)
1000	Plain Paper (letter) - Standard 4x6 label - 2 per page	Plain Paper (letter) – 1 per page (PlainPaper)
1001	Generic - Standard 4x6 label - 2 per sheet	Generic Standard 4x6 label – 2 per sheet (DoubleLabel)
1002	Avery 5265 / 8165 / 8255 (1-part) - Standard 4x6 label - 2 per sheet	Generic Standard 4x6 label – 2 per sheet (DoubleLabel)
1005	NCR 909143 - Standard 4x6 label - 2 per sheet	Generic Standard 4x6 label – 2 per sheet (DoubleLabel)
1006	Plain 8x11 paper 1 per page	Plain Paper (letter) – 1 per page (PlainPaper)
1008	Stamps.com SDC-1200 - Standard 4x6 label - 2 per sheet	Generic Standard 4x6 label – 2 per sheet (DoubleLabel)
1009	Stamps.com SDC-4600 - Standard 4x6 label - 4 per sheet	Generic Standard 4x6 label – 2 per sheet (DoubleLabel)

1010	Stamps.com SDC-4610 - Standard 4x6 label - 4 per sheet	Generic Standard 4x6 label – 2 per sheet (DoubleLabel)
3000	International Label – Plain Paper – 1 per	Plain Paper (letter) – 1 per page (PlainPaper)
	page	
3001	International Label – SDC-1200 – Standard 4	Generic - Standard 4x6 label - 2 per sheet
	x 6 label	