Domestic Mail Service Standards

USPS Web Tools™ Application Programming Interface User Guide

Version 3.5 (08/07/2023)



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1.0 Introduction to Web Tools

This document contains a Reference Guide to the Package Service Standards APIs. See the <u>Developers Guide</u> to learn the administrative process for gaining access to the Web Tools APIs as well as the basic mechanism for calling the APIs and processing the results. The Developer's Guide also contains information on testing and troubleshooting.

Note: The Request Parameter sections present the XML input tags for generating live requests along with the restrictions on the values allowed. An error message will be returned if an incorrect value is entered. Also, be aware of the maximum character amounts allowed for some tags. If the user enters more than those amounts, an error will not be generated. Web Tools will simply pass in the characters up to the maximum amount allowed and disregard the rest. This is important since the resulting value could prevent a correct response.

When building the XML request, pay particular attention to the order and case for tags. An error message will be returned if an incorrect value is entered. Remember that all data and attribute values in this document are for illustration purposes and are to be replaced by your actual values. For instance, a line of sample code may be:

<DestinationZIP>12345</DestinationZIP>

In this instance, you will replace "12345" with the destination Zip Code for your request.

1.1 Before you get started:

For information on registering and getting started with Web Tools, please refer to the Step-By-Step guide found on the Web Tools <u>Technical Documentation Page</u>.

2.0 Priority Mail Service Standards API

2.1 Overview

The Priority Mail Service Standards API receives requests and returns the number of days (on average) it will take a Priority Mail package to arrive at its destination. Ensure that end-users understand that these are service standards and not guaranteed commitments. The Priority Mail Service Standards API processes a single request.

2.1.1 API Signature Table

Scheme	Host	Path	API	XML
https://	secure.shippingapis.com	/ShippingAPI.dll?	API=PriorityMail	&XML=(see below)

Tag Name	Occurs	Description	Туре	Validation
PriorityMailRequest	Required		(Alias)	
PriorityMailRequest / USERID	Required	This attribute specifies your Web Tools user ID. See the <u>Developer's Guide</u> for information on obtaining your USERID. For Example: USERID="XXXXXXXX"	NMTOKEN	
PriorityMailRequest / PASSWORD	Optional	This attribute specifies your Web Tools password. See the <u>Developer's Guide</u> for information on your Password. For Example: PASSWORD="XXXXXXXX"	NMTOKEN	
PriorityMailRequest / OriginZip	Required	Origination and destination Zip Codes must be valid. Either the first 3 digits or first 5	String	

Tag Name	Occurs	Description		Туре	Validation
		the open tag ar For example:	Code are entered between nd close tag.		
PriorityMailRequest / DestinationZip	Required	be valid and mu For example:	destination Zip Codes must ust be 5 digits. >>20770	String	
PriorityMailRequest / DestinationType	Optional	"2" = PO-Addre "3" = Hold For I For example:	essee – Street (Default Value) essee – PO Box	String	Enumeration 1 2 3
PriorityMailRequest / PMGuarantee	Optional	Default "N"		Boolean	
PriorityMailRequest /	Required	Defines mail class for commitment data.		String	minOccurs="1"
MailClass		Mail Class Value	Description		maxOccurs="1" Enumeration
		2	Priority Mail		
		201	Priority Mail 1-Day (Deprecated)		
		202	Priority Mail 2-Day (Deprecated)		
		203	Priority Mail 3-Day (Deprecated)		
		204	Priority Mail Military		
		205	Priority Mail DPO		
		206	Priority Mail Offshore		
		For example: <mailclass>0<</mailclass>	MailClass>		
		1-Day, 2-Day a removed from r	MailClass>="201, 202, or 203", nd/or 3-Day references will be response data and a single for Priority Mail service eturn.		
PriorityMailRequest	Required once			(Alias)	

Request: PriorityMail:
<PriorityMailRequest USERID="XXXXXXXXXX" PASSWORD="">
<OriginZip>90201</OriginZip>

- <DestinationZip>21114</DestinationZip>
- <MailClass>201</MailClass>
- </PriorityMailRequest>

2.3 Response Descriptions

Tag Name	Occurs	Description	Туре	Validation
PriorityMailResponse	Required		(Alias)	
PriorityMailResponse / OriginZip	Required	OriginationZip sent in request.	String	
PriorityMailResponse / DestinationZip	Required	DestinationZip sent in request.	String	
PriorityMailResponse / Days	Optional	Numbers of days expected to deliver.	String	
PriorityMailResponse / IsGuaranteed	Optional	Is the delivery guaranteed.	String	
PriorityMailResponse / Message	Optional	Service Standards Messaging. Appears when applicable. For example: <msg>Your shipment may be delayed due to transportation issues.</msg>	String	
PriorityMailResponse / EffectiveAcceptanceDate	Optional	Effective Acceptance Date is returned when <destinationtype> is specified in the request.</destinationtype>	String	
PriorityMailResponse / ScheduledDeliveryDate	Optional	Scheduled Delivery Date is returned when <destinationtype> is specified in the request.</destinationtype>	String	
PriorityMailResponse	Required		(Alias)	

2.3.1 Sample Response

Response: PriorityMail

- <PriorityMailResponse>
- <OriginZip>20024</OriginZip>
- <DestinationZip>20770</DestinationZip>
- <Days>1</Days>
- <EffectiveAcceptanceDate>2021-09-16</EffectiveAcceptanceDate>
- <ScheduledDeliveryDate>2021-09-17</ScheduledDeliveryDate>
- </PriorityMailResponse>

3.0 Package Services "StandardB" API

3.1 Overview

The Package Services "StandardB" API receives requests and returns the average number of days it will take a package to arrive at its destination. There are four types of Package Services: Standard Post, Bound Printed Matter, Library Mail, and Media Mail. The Package Services "StandardB" API processes a single request. Ensure that end-users understand that these are service standards and not guaranteed commitments.

3.1.1 API Signature Table

Scheme	Host	Path	API	XML
https://	secure.shippingapis.com/	shippingapi.dll?	API=StandardB	&XML=(see below)

Tag Name	Occurs	Description		Туре	Validation
StandardBRequest	Required			(Alias)	
StandardBRequest / USERID	Required		cifies your Web Tools user oper's Guide for information USERID.	NMTOKEN	
		For Example: USI	ERID="XXXXXXX"		
StandardBRequest / PASSWORD	Optional	password. See th information on you	cifies your Web Tools e <u>Developer's Guide</u> for ur Password. SSWORD="XXXXXXX"	NMTOKEN	
StandardBRequest / OriginZip	Required	Origination and devalid. Either the fi	estination Zip Codes must be rst 3 digits or first 5 digits of entered between the open	String	
StandardBRequest / DestinationZip	Required	valid and must be For example:	estination Zip Codes must be 5 digits. 20770	String	
StandardBRequest / DestinationType	Optional	"2" = PO-Address "3" = Hold For Pic For example:	ee – Street (Default Value) ee – PO Box	String	Enumeration 1 2 3
StandardBRequest /	Required	Defines mail class	s for commitment data.	String	minOccurs="1"
MailClass		Mail Class Value	Description		maxOccurs="1" Enumeration
		6	Package Services		• 6
		601	Parcel Select (Deprecated)		601602603
		602	Standard Post		604605
	603 Media Mail 604 Library Mail		Media Mail		- 000
			Library Mail		
		605	Bound Printed Matter		
		For example: <mailclass>0<ma< td=""><td>ailClass></td><td></td><td></td></ma<></mailclass>	ailClass>		

Tag Name	Occurs	Description	Туре	Validation
StandardBRequest	Required		(Alias)	

Test XML Request:

- <StandardBRequest USERID="XXXXXXXXXX" PASSWORD="">
- <OriginZip>90201</OriginZip>
- <DestinationZip>21114</DestinationZip>
- <MailClass>601</MailClass>
- </StandardBRequest>

3.3 Response Descriptions

Tag Name	Occurs	Description	Туре	Validation
StandardBResponse	Required		(Alias)	
StandardBResponse / OriginZip	Required	OriginationZip sent in request.	String	
StandardBResponse / DestinationZip	Required	DestinationZip sent in request.	String	
StandardBResponse / Days	Optional	Numbers of days expected to deliver.	String	
StandardBResponse / Message	Optional	Service Standards Messaging. Appears when applicable. For example: <msg>Your shipment may be delayed due to transportation issues.</msg>	String	
StandardBResponse / EffectiveAcceptanceDate	Optional	Effective Acceptance Date is returned when <destinationtype> is specified in the request.</destinationtype>	String	
StandardBResponse / ScheduledDeliveryDate	Optional	Scheduled Delivery Date is returned when <destinationtype> is specified in the request.</destinationtype>	String	
StandardBResponse	Required		(Alias)	

3.3.1 Sample Response

Test XML Response:

- <StandardBResponse>
- <OriginZip>90201</OriginZip>
- <DestinationZip>21114</DestinationZip>
- <Days>7</Days>
- <EffectiveAcceptanceDate>2021-09-16</EffectiveAcceptanceDate>
- <ScheduledDeliveryDate>2021-09-23</ScheduledDeliveryDate>
- </StandardBResponse>

4.0 First Class Mail Service Standards API

4.1 Overview

The First Class Mail Service Standards API receives requests and returns the average number of days it will take a package to arrive at its destination. The First Class Mail Service Standards API processes a single request. Ensure that end-users understand that these are service standards and not guaranteed commitments. Note: Effective July 9th, 2023, First-Class Package Service was replaced with Ground Advantage. The First Class Mail Service Standards API supports First-Class Mail flats and Ground Advantage parcels.

4.1.1 API Signature Table

Scheme	Host	Path	API	XML
https://	secure.shippingapis.com/	shippingapi.dll?	API=FirstClassMail	&XML=(see below)

Tag Name	Occurs	Description		Туре	Validation
FirstClassMailRequest	Required			(Alias)	
FirstClassMailRequest / USERID	Required	user ID. See the information on o	pecifies your Web Tools e <u>Developer's Guide</u> for obtaining your USERID. USERID="XXXXXXXX"	NMTOKEN	
FirstClassMailRequest / PASSWORD	Optional	password. See information on	pecifies your Web Tools the <u>Developer's Guide</u> for your Password. ASSWORD="XXXXXXXX"	NMTOKEN	
FirstClassMailRequest / OriginZip	Required	must be valid. E first 5 digits of t	destination Zip Codes Either the first 3 digits or he Zip Code are entered en tag and close tag.	String	
FirstClassMailRequest / DestinationZip	Required	must be valid a For example:	destination Zip Codes nd must be 5 digits.	String	
FirstClassMailRequest / DestinationType	Optional	Destination Type for package. 1 = PO-Addressee - Street (Default) 2 = PO-Addressee - PO Box 3 = Hold For Pick-up For example: <destinationtype>1</destinationtype>		String	Enumeration 1 2 3
FirstClassMailRequest /	Required	Defines mail class for commitment data.		String	minOccurs="1"
MailClass		Mail Class Value	Description		maxOccurs="1" Enumeration
		3	USPS Ground Advantage (up to 15.999 oz)		3301302303

Tag Name	Occurs	Description		Туре	Validation
		301	First-Class Mail Letters		• 304
		302	First-Class Mail Flats		
		303	First-Class Mail Cards		
		304	USPS Ground Advantage (up to 15.999 oz)		
		For example: <mailclass>0<</mailclass>	MailClass>		
FirstClassMailRequest	Required once			(Alias)	

Request: FirstClassMail

- <FirstClassMailRequest USERID="XXXXXXXXX" PASSWORD="">
- <OriginZip>90201</OriginZip>
- <DestinationZip>21114</DestinationZip>
- <MailClass>301</MailClass>
- </FirstClassMailRequest>

4.3 Response Descriptions

Tag Name	Occurs	Description	Туре	Validation
FirstClassMailResponse	Required		(Alias)	
FirstClassMailResponse / OriginZip	Required	OriginationZip sent in request.	String	
FirstClassMailResponse / DestinationZip	Required	DestinationZip sent in request.	String	
FirstClassMailResponse / Days	Optional	Numbers of days expected to deliver.	String	
FirstClassMailResponse / Message	Optional	Service Standards Messaging. Appears when applicable. For example: <msg>Your shipment may be delayed due to transportation issues.</msg>	String	
FirstClassMailResponse / EffectiveAcceptanceDate	Optional	Effective Acceptance Date is returned when <destinationtype> is specified in the request.</destinationtype>	String	
FirstClassMailResponse / ScheduledDeliveryDate	Optional	Scheduled Delivery Date is returned when <destinationtype> is specified in the request.</destinationtype>	String	
FirstClassMailResponse	Required		(Alias)	

4.3.1 Sample Response

Response FirstClassMail:

- <FirstClassMailResponse>
- <OriginZip>90201</OriginZip>
- <DestinationZip>21114</DestinationZip>
- <Days>3</Days>
- <EffectiveAcceptanceDate>2021-09-16</EffectiveAcceptanceDate>
- <ScheduledDeliveryDate>2021-09-19</ScheduledDeliveryDate>
- </FirstClassMailResponse>

5.0 Express Mail Service Commitments API

5.1 Overview

The Express Mail Service Commitments API provides delivery commitments for Express Mail packages for the given Zip Codes to include package drop-off information. A user provides an origination and a destination Zip Code and an optional current or future date that the package will be shipped.

5.1.1 API Signature Table

Scheme	Host	Path	API	XML
https://	secure.shippingapis.com/	shippingapi.dll?	API=ExpressMailCommitme	&XML=(see
			nt	below)

Tag Name	Occurs	Description	Туре	Validation
ExpressMailCommitmentRequest	Required		(Alias)	
ExpressMailCommitmentRequest / USERID	Required	This attribute specifies your Web Tools user ID. See the <u>Developer's Guide</u> for information on obtaining your USERID. For Example: USERID="XXXXXXXX"	NMTOKEN	
ExpressMailCommitmentRequest / PASSWORD	Optional	This attribute specifies your Web Tools password. See the <u>Developer's Guide</u> for information on your Password. For Example: PASSWORD="XXXXXXXX"	NMTOKEN	
ExpressMailCommitmentRequest / OriginZIP	Required	5 Digit Zip Code of the package destination. For example: <originzip>90210</originzip>	String	
ExpressMailCommitmentRequest / DestinationZIP	Required	Origination and destination Zip Codes must be valid and must be 5 digits. For example: <pre><destinationzip>20770</destinationzip></pre> /DestinationZIP>	String	
ExpressMailCommitmentRequest / Date	Required	Date package is shipped. Can be left blank. Can use formats MM/DD/YYYY or DD-MMM-YYYY. For example: <date>05-May-2014</date>	String	

Tag Name	Occurs	Description	Туре	Validation
ExpressMailCommitmentRequest / DropOffTime	•	Time package is shipped. This tag can be omitted or left blank. Use format HH:MM such as 13:30. For example: <dropofftime>15:00</dropofftime>	String	
ExpressMailCommitmentRequest / ReturnDates	Optional	Indicates if Scheduled Delivery and Effective Acceptance dates should be returned. Specify 'true' or 'false'. For example: <returndates>true</returndates>	String	
ExpressMailCommitmentRequest / PMGuarantee		Indicator to display Guarantee information for applicable service types. "Y" = Yes, display "N" = No, do not display (Default Value)	String	Enumeration Y N
ExpressMailCommitmentRequest	Required		(Alias)	

Request: ExpressMailCommitment

- <ExpressMailCommitmentRequest USERID="XXXXXXXXX" PASSWORD="">
- <OriginZIP>63123</OriginZIP>
- <DestinationZIP>89301</DestinationZIP>
- <Date>05-26-2021</Date>
- <DropOffTime>09:00</DropOffTime>
- <ReturnDates>true</ReturnDates>
- <PMGuarantee>Y</PMGuarantee>
- </ExpressMailCommitmentRequest>

5.3 Response Descriptions

Tag Name	Occurs	Description	Туре	Validation
ExpressMailCommitmentResponse	Required		(Alias)	
ExpressMailCommitmentResponse / OriginZIP	Required	OriginationZip sent in request.	String	
ExpressMailCommitmentResponse / OriginCity	Required	Originating City.	String	
ExpressMailCommitmentResponse / OriginState	Required	Originating State.	String	
ExpressMailCommitmentResponse / DestinationZIP	Required	DestinationZip sent in request.	String	
ExpressMailCommitmentResponse / DestinationCity	Required	Destinating City.	String	
ExpressMailCommitmentResponse / DestinationState	Required	Destinating State.	String	
ExpressMailCommitmentResponse / Date	Required	Date package shipped.	String	

Tag Name	Occurs	Description	Туре	Validation
ExpressMailCommitmentResponse / Time	Required	Time.	String	
ExpressMailCommitmentResponse / ExpeditedTransMessage	Optional	Expedited Transportation Message. Returned when applicable and the request has the ReturnDates set to true.	String	
ExpressMailCommitmentResponse / MsgCode	Optional	Message Code. Returned when applicable and the request has the ReturnDates set to true. Valid Message Code "TM103" = Your shipment may be delayed due to transportation issues.	String	Enumeration= • TM103
ExpressMailCommitmentResponse / Msg	Optional	Message Text. Returned when applicable and the request has the ReturnDates set to true. For example: <msg>Your shipment may be delayed due to transportation issues.</msg>	String	
ExpressMailCommitmentResponse EffectiveAcceptanceDate	Optional	Effective Acceptance Date. Returned when the request has the ReturnDates set to true.	String	
ExpressMailCommitmentResponse Commitment	Optional	Holds the details of a commitment. Returned if valid.	(Group)	
ExpressMailCommitmentResponse / Commitment / Name	Optional	Commitment Name	String	Enumeration= 1-Day 2-Day 3-Day DPO Military
ExpressMailCommitmentResponse / Commitment / Time	Optional	Commitment Time. (eg: 6:00 PM)	String	
ExpressMailCommitmentResponse / Commitment / Sequence	Optional	Commitment Sequence Seq # Service Standard A0118 1-Day at 6:00 PM B0118 1-Day at 6:00 PM A0218 2-Day at 6:00 PM	String	Enumeration=
		B0218 2-Day at 6:00 PM		
ExpressMailCommitmentResponse / Commitment / Location	Optional	Groups drop off location information.	(Group)	1

Tag Name	Occurs	Description	Туре	Validation
ExpressMailCommitmentResponse / Commitment / Location / ScheduledDeliveryDate	Optional	Scheduled Delivery Date. Returned when the request has the ReturnDates set to true.	String	
ExpressMailCommitmentResponse / Commitment / Location / CutOff	Optional	Cut-Off Time.	String	
ExpressMailCommitmentResponse / Commitment / Location / Facility	Optional	Facility Type	String	Enumeration= POST OFFICE PRIORITY MAIL EXPRESS COLLECTION BOX AIR MAIL FACILITY
ExpressMailCommitmentResponse / Commitment / Location / Street	Optional	Facility Street	String	
ExpressMailCommitmentResponse / Commitment / Location / City	Optional	Facility City	String	
ExpressMailCommitmentResponse / Commitment / Location / State	Optional	Facility State	String	
ExpressMailCommitmentResponse / Commitment / Location / Zip	Optional	Facility Zip Code	String	
ExpressMailCommitmentResponse / Commitment / Location / IsGuaranteed	Optional	Indicates if Guaranee is offered. Will only be returned if the PMGuarantee in the request is set to "Y". 1 = Guaranteed 2 = No Guarantee 3 = Temporary No Guarantee	String	Enumeration= 1 2 3
ExpressMailCommitmentResponse / Message	Optional	Message indicating over 200 location, when there are more than the 200 returned.	String	
ExpressMailCommitmentResponse	Required		(Alias)	

Response: ExpressMailCommitment

- <ExpressMailCommitmentResponse>
- <OriginZIP>63123</OriginZIP>
- <OriginCity>SAINT LOUIS</OriginCity>
- <OriginState>MO</OriginState>
- <DestinationZIP>89301</DestinationZIP>
- <DestinationCity>ELY</DestinationCity>
- <DestinationState>NV</DestinationState>
- <Date>26-May-2021</Date>
- <Time>9:00AM</Time>
- <EffectiveAcceptanceDate>2021-05-26</EffectiveAcceptanceDate>
- <Commitment>
- <CommitmentName>2-Day</CommitmentName>
- <CommitmentTime>6:00 PM</CommitmentTime>

- <CommitmentSequence>A0218</CommitmentSequence>
- <Location>
- <ScheduledDeliveryDate>2021-05-28</ScheduledDeliveryDate>
- <CutOff>5:30 PM</CutOff>
- <Facility>POST OFFICE</Facility>
- <Street>55 GRASSO PLZ</Street>
- <City>SAINT LOUIS</City>
- <State>MO</State>
- <Zip>63123</Zip>
- </Location>
- </Commitment>
- <Commitment>
- <CommitmentName>2-Day</CommitmentName>
- <CommitmentTime>6:00 PM</CommitmentTime>
- <CommitmentSequence>B0218</CommitmentSequence>
- <Location>
- <ScheduledDeliveryDate>2021-05-28</ScheduledDeliveryDate>
- <CutOff>5:30 PM</CutOff>
- <Facility>POST OFFICE</Facility>
- <Street>55 GRASSO PLZ</Street>
- <City>SAINT LOUIS</City>
- <State>MO</State>
- <Zip>63123</Zip>
- </Location>
- </Commitment>
- </ExpressMailCommitmentResponse>