Washington Master Address Services (WAMAS)
Address Correction Web Service

Version 6.00   9/18/2018

Introduction

The address correction service accepts a street address and returns a corrected and standardized address. This SOAP based XML service is intended to be used by any application that collects mailing or street addresses.   The service corrects misspelled streets, missing components, invalid zip codes and city names. Up to five of the top candidates can also be returned using the address and city for the search. Software and data from MelissaData Inc. is updated quarterly and provides access to the USPS database for validating addresses. By using this service mailing return rates are reduced, the quality of data analysis is improved, geocoding match rates are higher, and storage of addresses in a database is enhanced.

Inputs	Example	Description
Address	101 Is reel Rd	Address to verify with house number and all components. (required)
Address2	p.o. box 47904	Second address line or suite type additional information. (optional)
City	Tumwat	City Name (optional if zip is supplied)
Company	WA DOH	Company name, used for verifying addresses only. (optional)
Zip	98502	5 Digit Zip code (optional if city is supplied)
State	WA	2 Digit State Abbreviation (optional)
ZipPlus4	9656	Zip Plus four code (optional)
Consumer	LEG	Unique key for each consumer (required)
Outputs		
DeliveryAddress	101 Israel Rd SE	Corrected Address
DeliveryAddress2	PO Box 47904	Corrected Address line two
PlaceName	Tumwater	Corrected City Name
ZipCode	98501	Corrected 5-digit Zip Code
ZipPlus4	7904	Corrected Zip Plus 4 if found in USPS database
StateName	WA	Corrected State Abbreviation
County	Thurston	County the address is located in
ANSIStateCountyCode	053067	State and County FIPS Code
Company	WA DOH	Not Corrected only used for verification of addresses.
OfficialStatus	Street Address	Type of Address (see possible values on next page)
StreetNamePreDirectional	N	Corrected Pre street direction
AddressNumber	101	Parsed house number of the input address
StreetName	Israel	Corrected street name of the input address
StreetNamePostType	Loop	Corrected Pre street type
StreetNamePostDirectional	SE	Corrected Post street direction
SubaddressIdentifier	14	Corrected Unit identifier
SubaddressType	TRLR	Corrected Unit type
MailableAddress	Yes or No	Was the address found in the USPS database
Quality	Address found in USPS database	Could also contain "Parsed but not found"
Results	AC01, AC03, AS01	Changes made to the input data, see Result Codes below
ErrorStatus	Invalid input	Any application error codes
Candidate1	101 Israel Rd SW, 98501	Address Candidate
Candidate2	101 Israel ST, 98502	Address Candidate
Candidate3		Address Candidate
Candidate4		Address Candidate
Candidate5		Address Candidate
Garbage	sadfad	Leftover characters after correction and parsing occurs.
MDexpires	6/30/2017	Date the data will revert to Demo Mode if patch is not supplied.
MDRBDI	Residential	MelissaData Residential/Business Indicator
MDdatabasedate	3/15/2017	Date of USPS database from MelissaData
MDlicenseexpires	7/5/2017	Date the MelissaData annual license expires

Result Codes

AS01	Address Matched to Postal Database		AE01	Zip Unknown
AS02	Street Address Match		AE02	Unknown Street
AS03	Non-USPS Address		AE03	Component Mismatch
AS09	Foreign Zip Code		AE04	Non-Deliverable
AS10	UPS Store		AE05	Multiple Matches
AS13	LACS Conversion		AE06	EWS
AS14	Suite Appended Link		AE07	Invalid Input
AS15	Suite Appended by AP		AE08	Invalid Suite
AS16	Address is vacant		AE09	Missing Suite
AS17	Alternate Delivery		AE10	Invalid Range
AS18	DPV Error		AE11	Missing Range
AS20	No UPS or FedEx Delivery		AE12	Invalid PO, HC or RR
AS22	No Suggestions		AE13	Missing PO, HC or RR
AS23	Extra Info found		AE14	CMRA Missing
			AE15	Demo Mode
AC10	Changed the Street Name		AE16	Expired Database
AC01	Changed the Zip Code		AE17	in Suite Range
AC08	Changed Zip4		AE19	Timed Out
AC02	Changed the State		AE20	Suggestions Disabled
AC03	Changed the City			
AC11	Changed Suffix		AC07	Changed Company
AC12	Changed Directional		AC08	Changed Zip4
AC04	Changed to Alt. Name		AC09	Changed Urbanization
AC05	Changed Alias		AC13	Changed Suite Name
AC06	Changed Address2		AC14	Changed Suite Range

Consumption Example

This assumes you're using Visual Studio and VB.NET is the language.

Add a web reference to https://state-wamas-app.des.wa.gov/addresscorrection/service.asmx?WSDL and name it "Correction".

Dim addr_obj As New Correction.Service
Dim addr_corr As New Correction.Address_Correction
addr_obj.Url = "https://fortress..."   (Contact DOH for URL)
addr_corr = addr_obj.Getstandardizedaddress("101 is real rd se","po box 47904","Tumwat","WA DOH","98502",
"WA","5570","LEG")
The addr_corr object will have the input and output values as properties.

Test form to view XML output: https://state-wamas.wa.gov/addresscorrection/service.asmx?op=Getstandardizedaddress

Notes

Either a city or zip, one is required.
Consumer is a non-blank value to identify your application for use tracking and notifications.
Zip should be in the 5 digit format.
State should be in the 2 digit format and defaults to "WA" if not specified.
Transmission of the address is in clear text without encryption inside the State Government Network
If address line 1 is not found then address line 2 is used. Addresses will be switched in the output. Address line 1 will always contain the address used.

ASP.NET Test Page

Enter an address into this page and it calls three WAMAS Web services and one mapping application.
https://state-wamas-app.des.wa.gov/testwebservices/default.aspx

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Revisions

9/17/2018
Modified the security protocol to use TLS 1.2.
Upgraded to .NET Framework 4.5