

Washington State Department of Health Address Correction Web Service

Version 6.00

9/17/2020

Introduction

The address correction service accepts an address and returns a corrected and standardized address. The 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

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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

Address Types

Alias
Firm or Company address
General Delivery address
High Rise or Business complex
PO Box address
Rural Route address
Street or Residential address

SOAP/XML Consumption Example

This assumes your Visual Studio 2017 web reference is named "Correction" and VB.NET is the language. Contact DOH for a unique key to use in the "CONSUMER" argument.

```
Dim addr_obj As New Correction.Service
```

```
Dim addr_corr As New Correction.Address_Correction
```

```
addr_obj.Url = "https://test-fortress.wa.gov/doh/addresscorrection/service.asmx"
```

```
addr_corr = addr_obj.Getstandardizedaddress("101 is real rd se", "po box 47904", "Tumwat", "WA DOH", "98502", "WA", "5570", "CONSUMER")
```

The addr_corr object will have the input and output values as properties.

HTTP POST Example

This service can also be called using a simple URL request from a variety of languages (e.g. Python, R, SAS, JavaScript and SQL). Then you'd need to parse the XML response. For this URL to work you'd need to append a valid consumer value.

<https://test-fortress.wa.gov/doh/addresscorrection/service.asmx/Getstandardizedaddress?address=101%20isreal%20rd&address2=&city=Tumwat&zip=&zip4=&state=WA&company=&Consumer=>

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Notes

- Arguments for the getstandardizedaddress method are "address","address2","city","company", "zipcode","state","zip4","consumer".
- Either a city or zip is required and consumer.
- 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.
- If the response contains MailableAddress = "Yes" or Results contains "AS01" or Quality contains "Address Matched to USPS Database" then the address was found and is valid. An address can be valid but MailableAddress = "No" if mail delivery is to an alternate location.

ASP.NET Test Page

Enter an address into this page and it calls three Web services and one mapping application.

<https://fortress.wa.gov/doh/testwebservices/default.aspx>

Getting Started

Contact dohdlhtsgjs@doh.wa.gov or (360)236-4271

We'll create a unique consumer key for your application.

Based on your application's environment and security needs we'll provide URL's for QA and production.