



Strikelron US Address Verification Version 5.0.0

WSDL: <http://ws.strikeiron.com/USAddressVerification5?WSDL>

Product Web Page:

<http://www.strikeiron.com/Catalog/ProductDetail.aspx?pv=5.0.0&pn=US+Address+Verification>

Description: This service corrects addresses, adds ZIP+4 data, provides delivery point verification, gives congressional districts, carrier routes, and much more. Inspect every element of an address to ensure its validity using sophisticated matching and data standardization technology.

Required License Information: The *LicenseInfo* parameter in our Web services provides the authentication credentials that allow you to invoke the Web service. If you are registered with Strikelron, use the UserID and Password associated with your Strikelron account in the UserID and Password fields. Alternatively, you can also use your license key obtained from your Strikelron Account (leave the password blank).

LicenseInfo Field: RegisteredUser Input	Sample Input
UserID:	johndoe@strikeiron.com
Password:	Password1

License Subscription Information Output	Sample Output
LicenseStatusCode: This field returns a numeric code indicating the Strikelron license action taken as a result of invoking this operation from the User ID and Password used for input. Valid license codes are 0, 1, and 2. For example, a valid User ID and Password returns the code 0 with a corresponding LicenseStatus value of <i>Valid license key</i> .	0
LicenseStatus: This field returns the status of the Strikelron User ID and Password corresponding to the LicenseStatusCode.	Valid license key
LicenseActionCode: This field returns a numeric code indicating the Strikelron license action taken as a result of invoking this operation. GetRemainingHits returns the code 5 with a corresponding LicenseAction value of <i>Get remaining hits</i> .	0
LicenseAction: This field returns the license action taken as a result of invoking this operation from the User ID and Password used corresponding to the LicenseActionCode.	Decrement hit count
RemainingHits: This field returns the number of hits against the Strikelron license key used when invoking this operation.	2
Amount: This field returns the number of hits <i>used</i> from the Strikelron User ID provided to invoke this operation.	0

Available Operations:

- VerifyAddressUSA
- VerifyAddressUSABatch
- GetStatusCodesForMethod (no hits)
- GetStatusCodes (no hits)

- GetServiceInfo (no hits)
- GetRemainingHits (no hits)

Operation: VerifyAddressUSA Input	Sample Input
*AddressLine1: Type a complete or partial mailing address (the Web service will correct and enhance the address as needed). <i>Required.</i>	15501 Weston Pkwy
AddressLine2: Type any additional address information (the Web service will correct and enhance the address as needed).	Suite 150
*CityStateZIPCode: Type the city, state, and/or ZIP for the address (the Web service will correct and enhance this data as needed). Do not enter commas. <i>Required.</i>	Cary NC 27713
Firm: Type the company name of the firm record related to this address, if relevant. A firm record could be used to identify a commercial building, apartment complex, high-rise, wing, or floor of a building, grouping of apartment mailboxes, or other physical location other than a street, depending upon the internal mail distribution practices at the address.	Strikelron
Urbanization: Type a description that the Web service will use to search the USPS URB descriptor for an area, sector, or development within a geographic area. The word <i>URB</i> should come in front of the name of the area. This URB descriptor, commonly used in Puerto Rican urban areas, describes the location of a street.	
Casing: Select, <i>Lower</i> , or <i>Proper</i> to set the format of your output: <i>Upper</i> (all upper case), <i>Lower</i> (all lower case), or <i>Proper</i> case (a mix of upper and lower case).	Proper

Operation: VerifyAddressUSA Output (ServiceResult)	Sample Output
State: This field returns the standardized state or US territory abbreviation.	NC
Urbanization: This field returns the USPS URB Descriptor for an area, sector, or development within a geographic area. The word <i>URB</i> should come in front of the name of the area. This URB descriptor is commonly used in Puerto Rican urban areas.	
ZIPPlus4: This field returns the ZIP Code's ZIP+4 extension for the address. See also ZIP.	27513-8638
ZIP: This field returns the five-digit USPS ZIP Code for the address.	27513
ZIPAddOn: This field returns the last 4 digits from the ZIP+4 format of the ZIP Code.	8638
CarrierRoute: This field returns the USPS Carrier Route Indicator for the address that was returned. The first character of this identification is alphabetical, and the last three are numeric: <i>Bnnn</i> = PO box, <i>Hnnn</i> = Highway contract, <i>Rnnn</i> = Rural route, <i>Cnnn</i> = City delivery, <i>Gnnn</i> = General delivery.	R034
PMB: This field returns Private Mail Box (PMB) information, a required field for compliance with the USPS Coding Accuracy	<Normally Blank>

Operation: VerifyAddressUSA Output (ServiceResult)	Sample Output
Support System (CASS).	
PMBDesignator: This field returns a required field for compliance with the USPS Coding Accuracy Support System (CASS). The parsed Private Mail Box number follows the PMB designator that is supplied.	<Normally Blank>
DeliveryPoint: This field returns the USPS Delivery Point identifier for this address. This code is formed from the ZIP+4, and it enables a piece of mail to be sorted by its address.	25
DPCheckDigit: This field returns the USPS Delivery Point check digit for this address (for error correction from manual data entry or errors from transmitted data).	0
LACS: This field returns the USPS Locatable Address Conversion Service (LACS) information for this address. The LACS indicator describes records that have been converted by LACS from rural route to city addresses.	(blank if not applicable)
CMRA: Commercial Mail Receiving Agency. (Values: Y= Yes, a CMRA is used for this address, N= No, a CMRA is not used for this address)	N
DPV: Delivery Point Verification (Values: Y= Yes Delivery Point is confirmed; D= Delivery Point confirmed but secondary address is missing; S= Delivery Point confirmed, but for primary address only, secondary address present but not confirmed; N= delivery point not confirmed)	Y
DPVFootnote: The footnote returns two codes in each response. (Common return responses: AA= Matched on ZIP+4 file; A1= Not Matched to ZIP+4 file; BB= Matched to DPV file on all components; B1= Not Matched on DPV File on any Components; CC= Matched to DPV File. Secondary Address present but not used; N1 = Matched on DPV file but Address is missing Secondary Address Component; N2= Secondary number not found; RR= CMRA Match)	AA BB
RDI: Currently, no data is available for this field for Residential Delivery Indicator. It is reserved for later development.	
RecordType: This field returns the USPS record type for this address. Values: <i>F</i> = Firm, <i>G</i> = General Delivery, <i>H</i> = High-rise, <i>P</i> = PO Box, <i>R</i> = Rural Route/Highway Contract, <i>S</i> = Street.	H
CongressDistrict: This field returns the standard value identifying a geographic area within the United States served by a member of the US House of Representatives or Senate. If an Army/Air Force (A P O) or fleet post office (F P O) is used for this address, this field will be blank. If there is only one member of Congress within a state, the code will be <i>AL</i> (at large).	4
County: This field returns the name of the county for this address.	Wake
CountyNumber: This field returns the Federal Information Processing Standard (FIPS) code for the county in the address. (FIPS-6-4: Counties and Equivalent Entities of the United States, Its	183

Operation: VerifyAddressUSA Output (ServiceResult)	Sample Output
Possessions, and Associated Areas)	
StateNumber: This field returns the Federal Information Processing Standard (FIPS) code for the state in the address. Federal Information Processing Standard FIPS-5-4: Codes for the Identification of the States, the District of Columbia and the Outlying Areas of the United States, and Associated Areas.)	37
GeoCode	
CensusTract: This field returns the US Census Bureau Census Tract Number for this address.	053514
StateNumber: This field returns the Federal Information Processing Standard (FIPS) code for the state in the address. Federal Information Processing Standard FIPS-5-4: Codes for the Identification of the States, the District of Columbia and the Outlying Areas of the United States, and Associated Areas.)	37
CountyNumber: This field returns the Federal Information Processing Standard (FIPS) code for the county in the address. (FIPS-6-4: Counties and Equivalent Entities of the United States, Its Possessions, and Associated Areas)	183
BlockNumber: This field returns the Block Number for this address. This data is provided by the US Census Bureau.	1021
BlockGroup: This field returns the US Census Bureau Block Group for this address (a statistical subdivision of a census tract).	371830535141
Latitude: This field returns the geographic latitude for the address in decimal degrees.	35.8139
Longitude: This field returns the geographic longitude for the address in decimal degrees.	-78.818299
AddressLine1: This field returns the first line of the address, corrected and enhanced by the Web service as needed.	15501 Weston Pkwy Ste 150
AddressLine2: This field returns the second line of the address, corrected and enhanced by the Web service as needed.	
StreetNumber: This field returns the street number for the address, corrected and enhanced by the Web service as needed.	15501
Firm: If applicable, this field returns the name of a company, building, apartment complex, shopping center, or other distinguishing secondary address information. This field is normally used with firm and high-rise records.	Strikeiron
PreDirection: If applicable, this field returns the geographic direction that precedes the street name as in <i>123 E JONES ST</i> . Values include: <i>E, N, NE, NW, S, SE, SW, W</i> .	
StreetName: This field returns the street name for the address, corrected and enhanced by the Web service as needed.	Weston

Operation: VerifyAddressUSA Output (ServiceResult)	Sample Output
StreetType: This field returns the USPS-abbreviated street type for the address that was returned.	Pkwy
PostDirection: If applicable, this field returns the geographic direction that follows the street name. as in <i>123 JONES ST N</i> . Values include: <i>E, N, NE, NW, S, SE, SW, W</i> .	
Extension: If applicable, this field returns the USPS abbreviation for the extension for the address that was returned. For example, <i>Suite</i> would be shortened to <i>Ste</i> . See also ExtensionNumber.	Ste
ExtensionNumber: This field returns the extension number for the address that corresponds to the address Extension, if any.	150
Village: If applicable, this field returns the town or village name for the address.	
City: This field returns the city name for the address, corrected and enhanced by the Web service as needed.	Cary
AddressStatus: This field matches the address provided as input against the DataFlux database. If the address provided as input is valid, the output returned is <i>Valid</i> . If the address provided as input is invalid or could not be found, the output returned is <i>blank</i> .	Valid

Operation: VerifyAddressUSA Output (ServiceStatus)	Sample Output
StatusNbr: This field returns a number referring to the status of this request. (See GetStatusCodes)	200
StatusDescription: This field returns the description of the status number. (See GetStatusCodes)	Found

Operation: VerifyAddressUSABatch Input (Verify multiple addresses at one time. One example shown.)	Sample Input
NOTE: A maximum of 100 addresses can be sent in a single VerifyAddressUSABatch invocation. If you wish to verify more than 100 addresses, you will need to break them down into groups of 100 (or less) and send multiple Web service requests.	
*AddressLine1: Type a complete or partial mailing address (the Web service will correct and enhance the address as needed). <i>Required.</i>	15501 Weston Pkwy
AddressLine2: Type any additional address information (the Web service will correct and enhance the address as needed).	Suite 150
*CityStateZIPCode: Type the city, state, and/or ZIP for the address (the Web service will correct and enhance this data as needed). Do not enter commas. <i>Required.</i>	Cary NC 27713
Firm: Type the company name of the firm record related to this address, if relevant. A firm record could be used to identify a commercial building, apartment complex, high-rise, wing, or floor of	Strikelron

a building, grouping of apartment mailboxes, or other physical location other than a street, depending upon the internal mail distribution practices at the address.	
Urbanization: Type a description that the Web service will use to search the USPS URB descriptor for an area, sector, or development within a geographic area. The word <i>URB</i> should come in front of the name of the area. This URB descriptor, commonly used in Puerto Rican urban areas, describes the location of a street.	
Casing: Select, <i>Lower</i> , or <i>Proper</i> to set the format of your output: <i>Upper</i> (all upper case), <i>Lower</i> (all lower case), or <i>Proper</i> case (a mix of upper and lower case).	Proper

Operation: VerifyAddressUSABatch Output (USAddressWithStatus)	Sample Output
State: This field returns the standardized state or US territory abbreviation.	NC
Urbanization: This field returns the USPS URB Descriptor for an area, sector, or development within a geographic area. The word <i>URB</i> should come in front of the name of the area. This URB descriptor is commonly used in Puerto Rican urban areas.	
ZIPPlus4: This field returns the ZIP Code's ZIP+4 extension for the address. See also ZIP.	27513-8638
ZIP: This field returns the five-digit USPS ZIP Code for the address.	27513
ZIPAddOn: This field returns the last 4 digits from the ZIP+4 format of the ZIP Code.	8638
CarrierRoute: This field returns the USPS Carrier Route Indicator for the address that was returned. The first character of this identification is alphabetical, and the last three are numeric: <i>Bnnn</i> = PO box, <i>Hnnn</i> = Highway contract, <i>Rnnn</i> = Rural route, <i>Cnnn</i> = City delivery, <i>Gnnn</i> = General delivery.	R034
PMB: This field returns Private Mail Box (PMB) information, a required field for compliance with the USPS Coding Accuracy Support System (CASS).	<Normally Blank>
PMBDesignator: This field returns a required field for compliance with the USPS Coding Accuracy Support System (CASS). The parsed Private Mail Box number follows the PMB designator that is supplied.	<Normally Blank>
DeliveryPoint: This field returns the USPS Delivery Point identifier for this address. This code is formed from the ZIP+4, and it enables a piece of mail to be sorted by its address.	25
DPCheckDigit: This field returns the USPS Delivery Point check digit for this address (for error correction from manual data entry or errors from transmitted data).	0
LACS: This field returns the USPS Locatable Address Conversion Service (LACS) information for this address. The LACS indicator describes records that have been converted by LACS from rural	(blank if not applicable)

Operation: VerifyAddressUSABatch Output (USAddressWithStatus)	Sample Output
route to city addresses.	
CMRA: Commercial Mail Receiving Agency. (Values: Y= Yes, a CMRA is used for this address, N= No, a CMRA is not used for this address)	N
DPV: Delivery Point Verification (Values: Y= Yes Delivery Point is confirmed; D= Delivery Point confirmed but secondary address is missing; S= Delivery Point confirmed, but for primary address only, secondary address present but not confirmed; N= delivery point not confirmed)	Y
DPVFootnote: The footnote returns two codes in each response. (Common return responses: AA= Matched on ZIP+4 file; A1= Not Matched to ZIP+4 file; BB= Matched to DPV file on all components; B1= Not Matched on DPV File on any Components; CC= Matched to DPV File. Secondary Address present but not used; N1 = Matched on DPV file but Address is missing Secondary Address Component; N2= Secondary number not found; RR= CMRA Match)	AA BB
TDI: Currently, no data is available for this field for Residential Delivery Indicator. It is reserved for later development.	
RecordType: This field returns the USPS record type for this address. Values: <i>F</i> = Firm, <i>G</i> = General Delivery, <i>H</i> = High-rise, <i>P</i> = PO Box, <i>R</i> = Rural Route/Highway Contract, <i>S</i> = Street.	H
CongressDistrict: This field returns the standard value identifying a geographic area within the United States served by a member of the US House of Representatives or Senate. If an Army/Air Force (A P O) or fleet post office (F P O) is used for this address, this field will be blank. If there is only one member of Congress within a state, the code will be <i>AL</i> (at large).	4
County: This field returns the name of the county for this address.	Wake
CountyNumber: This field returns the Federal Information Processing Standard (FIPS) code for the county in the address. (FIPS-6-4: Counties and Equivalent Entities of the United States, Its Possessions, and Associated Areas)	183
StateNumber: This field returns the Federal Information Processing Standard (FIPS) code for the state in the address. Federal Information Processing Standard FIPS-5-4: Codes for the Identification of the States, the District of Columbia and the Outlying Areas of the United States, and Associated Areas.)	37
GeoCode	
CensusTract: This field returns the US Census Bureau Census Tract Number for this address.	053514
StateNumber: This field returns the Federal Information Processing Standard (FIPS) code for the state in the address. Federal Information Processing Standard FIPS-5-4: Codes for the Identification of the States, the District of Columbia and the Outlying Areas of the United States, and Associated Areas.)	37

Operation: VerifyAddressUSABatch Output (USAddressWithStatus)	Sample Output
CountyNumber: This field returns the Federal Information Processing Standard (FIPS) code for the county in the address. (FIPS-6-4: Counties and Equivalent Entities of the United States, Its Possessions, and Associated Areas)	183
BlockNumber: This field returns the Block Number for this address. This data is provided by the US Census Bureau.	1021
BlockGroup: This field returns the US Census Bureau Block Group for this address (a statistical subdivision of a census tract).	371830535141
Latitude: This field returns the geographic latitude for the address in decimal degrees.	35.8139
Longitude: This field returns the geographic longitude for the address in decimal degrees.	-78.818299
AddressLine1: This field returns the first line of the address, corrected and enhanced by the Web service as needed.	15501 Weston Pkwy Ste 150
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StreetNumber: This field returns the street number for the address, corrected and enhanced by the Web service as needed.	15501
Firm: If applicable, this field returns the name of a company, building, apartment complex, shopping center, or other distinguishing secondary address information. This field is normally used with firm and high-rise records.	Strikeiron
PreDirection: If applicable, this field returns the geographic direction that precedes the street name as in <i>123 E JONES ST</i> . Values include: <i>E, N, NE, NW, S, SE, SW, W</i> .	
StreetName: This field returns the street name for the address, corrected and enhanced by the Web service as needed.	Weston
StreetType: This field returns the USPS-abbreviated street type for the address that was returned.	Pkwy
PostDirection: If applicable, this field returns the geographic direction that follows the street name. as in <i>123 JONES ST N</i> . Values include: <i>E, N, NE, NW, S, SE, SW, W</i> .	
Extension: If applicable, this field returns the USPS abbreviation for the extension for the address that was returned. For example, <i>Suite</i> would be shortened to <i>Ste</i> . See also ExtensionNumber.	Ste
ExtensionNumber: This field returns the extension number for the address that corresponds to the address Extension, if any.	150
Village: If applicable, this field returns the town or village name for the address.	

Operation: VerifyAddressUSABatch Output (USAddressWithStatus)	Sample Output
City: This field returns the city name for the address, corrected and enhanced by the Web service as needed.	Cary
AddressStatus: This field matches the address provided as input against the DataFlux database. If the address provided as input is valid, the output returned is <i>Valid</i> . If the address provided as input is invalid or could not be found, the output returned is <i>blank</i> .	Valid

Operation: VerifyAddressUSABatch Output (ServiceStatus)	Sample Output
StatusNbr: This field returns a number referring to the status of this request. (See GetStatusCodes)	200
StatusDescription: This field returns the description of the status number. (See GetStatusCodes)	Found

Operation: GetStatusCodesForMethod Input	Sample Input
*MethodName: Input a method name to obtain a list of the Status Codes for that method that display in the StatusNbr and StatusDescription fields. Input options are: VerifyAddressUSA, VerifyAddressUSABatch, GetStatusCodesForMethod, GetStatusCodes, and GetServiceInfo. <i>Required</i> .	VerifyAddressUSA

Operation: GetStatusCodesForMethod Output (ServiceResult)	Sample Output												
<table border="1"> <thead> <tr> <th>StatusNbr</th> <th>StatusDescription</th> </tr> </thead> <tbody> <tr> <td>200</td> <td>Found</td> </tr> <tr> <td>304</td> <td>Address Not Found</td> </tr> <tr> <td>305</td> <td>Address is ambiguous</td> </tr> <tr> <td>402</td> <td>City or ZIP Code is Invalid</td> </tr> <tr> <td>500</td> <td>Internal Error</td> </tr> </tbody> </table>	StatusNbr	StatusDescription	200	Found	304	Address Not Found	305	Address is ambiguous	402	City or ZIP Code is Invalid	500	Internal Error	
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200	Found												
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Operation: GetStatusCodesForMethod Output (ServiceStatus)	Sample Output
StatusNbr: This field returns a number referring to the status of this request. (See GetStatusCodes)	200
StatusDescription: This field returns the description of the status number. (See GetStatusCodes)	Found

Operation: GetStatusCodes Input	Sample Input
Note: The only input needed for this operation is the LicenseInfo data. This operation displays a list of the Status Codes for the Web service that display in the StatusNbr and StatusDescription fields.	(No input required)

Operation: GetStatusCodes Output (MethodStatusRecord)	Sample Output

<p>MethodName: VerifyAddressUSA</p> <table border="1"> <thead> <tr> <th><u>StatusNbr</u></th> <th><u>StatusDescription</u></th> </tr> </thead> <tbody> <tr> <td>200</td> <td>Found</td> </tr> <tr> <td>304</td> <td>Address Not Found</td> </tr> <tr> <td>305</td> <td>Address is ambiguous</td> </tr> <tr> <td>402</td> <td>City or ZIP Code is Invalid</td> </tr> <tr> <td>500</td> <td>Internal Error</td> </tr> </tbody> </table>	<u>StatusNbr</u>	<u>StatusDescription</u>	200	Found	304	Address Not Found	305	Address is ambiguous	402	City or ZIP Code is Invalid	500	Internal Error									
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<p>Operation: GetStatusCodes Output (ServiceStatus)</p>	<p>Sample Output</p>
<p>StatusNbr: This field returns a number referring to the status of this request. (See GetStatusCodes)</p>	<p>200</p>
<p>StatusDescription: This field returns the description of the status number. (See GetStatusCodes)</p>	<p>Found</p>

Operation: GetServiceInfo Input	Sample Input
Note: The only input needed for this operation is the LicenseInfo data. This operation displays the last time the Web service source data was updated.	(No input required)

Operation: GetServiceInfo Output (ServiceInfoRecord)	Sample Output
InfoKey: (For future development)	(none)
InfoValue: (For future development)	(none)

Operation: GetServiceInfo Output (ServiceStatus)	Sample Output
StatusNbr: This field returns a status number related to the operation.	200
StatusDescription: This field returns a description of the status number.	Found

Operation: GetRemainingHits Input	Sample Input
Note: The only input needed for this operation is the LicenseInfo data.	(No input required)

Operation: GetRemainingHits Output (SubscriptionInfo)	Sample Output
LicenseStatusCode: This field returns a numeric code indicating the Strikelron license action taken as a result of invoking this operation from the User ID and Password used for input. Valid license codes are 0, 1, and 2. For example, a valid User ID and Password returns the code 0 with a corresponding LicenseStatus value of <i>Valid license key</i> .	0
LicenseStatus: This field returns the status of the Strikelron User ID and Password corresponding to the LicenseStatusCode.	Valid license key
LicenseActionCode: This field returns a numeric code indicating the Strikelron license action taken as a result of invoking this operation. GetRemainingHits returns the code 5 with a corresponding LicenseAction value of <i>Get remaining hits</i> .	0
LicenseAction: This field returns the license action taken as a result of invoking this operation from the User ID and Password used corresponding to the LicenseActionCode.	Decrement hit count
RemainingHits: This field returns the number of hits against the Strikelron User ID and Password used when invoking this operation.	2
Amount: This field returns the number of hits <i>used</i> from the Strikelron User ID provided to invoke this operation.	0
GetRemainingHitsResponse: This field only returns subscription information.	