

# Informatica AddressDoctor Cloud Version 2 Release Notes December 2014

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This document contains an overview of Informatica AddressDoctor Cloud and the SOAP interface used for Informatica AddressDoctor Cloud transactions. This document also contains information about the new features introduced in Informatica AddressDoctor Cloud V2.

## Overview

### Informatica AddressDoctor Cloud

Informatica AddressDoctor Cloud is an online address validation solution that enables you to verify and validate international postal addresses in real time. Informatica AddressDoctor Cloud is a SOAP-based web service solution that is built on top of the latest Informatica AddressDoctor software. The current version of Informatica AddressDoctor Cloud is powered by Informatica AddressDoctor, Version 5.6.0.

You can integrate Informatica AddressDoctor Cloud with your CRM systems, e-commerce sites, or other cloud or web-based solutions and verify and validate the address data over secure (SSL) connections.

The extensibility and flexibility of Informatica AddressDoctor Cloud help you access the latest features without having to change the interface. When changes to the interface do become necessary, Informatica AddressDoctor adds a new version of the interface. For example, v2 in the following example: [http://validator5.AddressDoctor.com/Webservice5/v2/...](http://validator5.AddressDoctor.com/Webservice5/v2/)

If you do not want to upgrade immediately after a new version is released, you can continue to access the previous versions that are available even after a new version has been released.

## Interface Overview

You can use SOAP 1.1 or SOAP 1.2 to communicate with AddressDoctor Cloud. You can access AddressDoctor Cloud over HTTP port 80 or HTTPS port 443. Connections over HTTPS port 443 support encrypted messages and are secure.

SOAP 1.1 and SOAP 1.2 differ in the XML namespaces these two versions use. Additionally, in SOAP 1.2, the action parameter in the `Content-Type` header replaces the `SOAPAction` HTTP header in SOAP 1.1.

Note that the SOAP interface for Informatica AddressDoctor Cloud is case-sensitive and use of wrong cases for elements, parameters, or values could cause the request to fail. For elements and parameters, use exactly the same case that is given in the Request XML section of this document. For values, always use UPPER CASE.

## Request XML

The following example shows the `<process>` tag and its elements for both the SOAP 1.1 and SOAP 1.2 requests.

```
<Process xmlns="http://validator5.AddressDoctor.com/WebService5/v2">
  <login>string</login>
  <password>string</password>
  <parameters>
    <ProcessMode>string</ProcessMode>
    <!-- <ServiceParameters> is optional -->
    <ServiceParameters>
      <JobToken>string</JobToken>
      <CampaignId>string</CampaignId>
      <ReservedXml>string</ReservedXml>
      <UseTransactionPool>string</UseTransactionPool>
    </ServiceParameters>
    <!-- <ValidationParameters> is optional; If you leave the validation
    parameters blank, Informatica AddressDoctor Cloud uses the default values.-->
    <ValidationParameters>
      <FormatType>string</FormatType>
      <FormatDelimiter>string</FormatDelimiter>
      <DefaultCountryISO3>string</DefaultCountryISO3>
      <ForceCountryISO3>string</ForceCountryISO3>
      <CountryType>string</CountryType>
      <CountryOfOriginISO3>string</CountryOfOriginISO3>
      <StreetWithNumber>boolean</StreetWithNumber>
      <FormatWithCountry>boolean</FormatWithCountry>
      <ElementAbbreviation>boolean</ElementAbbreviation>
      <PreferredScript>string</PreferredScript>
      <PreferredLanguage>string</PreferredLanguage>
      <AliasStreet>string</AliasStreet>
      <AliasLocality>string</AliasLocality>
      <GlobalCasing>string</GlobalCasing>
      <GlobalMaxLength>int</GlobalMaxLength>
      <GlobalPreferredDescriptor>string</GlobalPreferredDescriptor>
      <MatchingScope>string</MatchingScope>
      <MaxResultCount>int</MaxResultCount>
      <DualAddressPriority>string</DualAddressPriority>
      <StandardizeInvalidAddresses>boolean</StandardizeInvalidAddresses>
      <RangesToExpand>string</RangesToExpand>
      <FlexibleRangeExpansion>boolean</FlexibleRangeExpansion>
      <GeoCodingType>string</GeoCodingType>
    </ValidationParameters>
  </parameters>
</Process>
```

```

<MatchingAlternatives>string</MatchingAlternatives>
<MatchingExtendedArchive>boolean</MatchingExtendedArchive>
<DisableCertifiedModeISO3>string</DisableCertifiedModeISO3>
<FormatMaxLines>int</FormatMaxLines>
<!-- <Standardizations> is optional -->
<Standardizations>
  <Element>string</Element>
  <Casing>string</Casing>
  <MaxLength>int</MaxLength>
  <MaxItemCount>int</MaxItemCount>
</Standardizations>
<!-- More <Standardizations> elements as needed -->
<!-- <AdditionalInformationSet> is for Informatica AddressDoctor
internal use and is not supported in customer requests -->
<AdditionalInformationSet>
  <Name>string</Name>
  <Value>string</Value>
</AdditionalInformationSet>
<!-- More <AdditionalInformationSet> elements as needed -->
<!-- <OutputOptions> is optional -->
<OutputOptions>
  <RecordId>string</RecordId>
  <Organization>string</Organization>
  <Department>string</Department>
  <Contact>string</Contact>
  <Email>string</Email>
  <Building>string</Building>
  <SubBuilding>string</SubBuilding>
  <Street>string</Street>
  <HouseNumber>string</HouseNumber>
  <DeliveryService>string</DeliveryService>
  <Locality>string</Locality>
  <PreferredLocality>string</PreferredLocality>
  <PostalCode>string</PostalCode>
  <Province>string</Province>
  <Country>string</Country>
  <Residue>string</Residue>
  <RecipientLines>string</RecipientLines>
  <DeliveryAddressLines>string</DeliveryAddressLines>
  <CountrySpecificLocalityLine>string</CountrySpecificLocalityLine>
  <FormattedAddress>string</FormattedAddress>
  <AddressComplete>string</AddressComplete>
  <AddressDetailed>string</AddressDetailed>
</OutputOptions>
</ValidationParameters>
</parameters>
<addresses>
  <Address>
    <RecordId>string</RecordId>
    <Organization>
      <string>string</string>
      <string>string</string>
    </Organization>
    <Department>
      <string>string</string>
      <string>string</string>
    </Department>
    <Contact>
      <string>string</string>
      <string>string</string>

```

```
</Contact>
<Email>
  <string>string</string>
  <string>string</string>
</Email>
<Building>
  <string>string</string>
  <string>string</string>
</Building>
<SubBuilding>
  <string>string</string>
  <string>string</string>
</SubBuilding>
<Street>
  <string>string</string>
  <string>string</string>
</Street>
<HouseNumber>
  <string>string</string>
  <string>string</string>
</HouseNumber>
<DeliveryService>
  <string>string</string>
  <string>string</string>
</DeliveryService>
<Locality>
  <string>string</string>
  <string>string</string>
</Locality>
<PreferredLocality>
  <string>string</string>
  <string>string</string>
</PreferredLocality>
<PostalCode>
  <string>string</string>
  <string>string</string>
</PostalCode>
<Province>
  <string>string</string>
  <string>string</string>
</Province>
<Country>
  <string>string</string>
  <string>string</string>
</Country>
<Residue>
  <string>string</string>
  <string>string</string>
</Residue>
<RecipientLines>
  <string>string</string>
  <string>string</string>
</RecipientLines>
<DeliveryAddressLines>
  <string>string</string>
  <string>string</string>
</DeliveryAddressLines>
<CountrySpecificLocalityLine>
  <string>string</string>
  <string>string</string>
```

```

</CountrySpecificLocalityLine>
<FormattedAddress>
  <string>string</string>
  <string>string</string>
</FormattedAddress>
<AdditionalAddressInformation>
  <Name>string</Name>
  <Value>string</Value>
</AdditionalAddressInformation>
<AdditionalAddressInformation>
  <Name>string</Name>
  <Value>string</Value>
</AdditionalAddressInformation>
<AddressComplete>string</AddressComplete>
<AddressCode>
  <CodeType>string</CodeType>
  <Value>string</Value>
</AddressCode>
<AddressDetailed>
  <Street xsi:nil="true" />
  <SubBuilding xsi:nil="true" />
  <Residue xsi:nil="true" />
</AddressDetailed>
</Address>
<!-- In Batch and Certified modes, you can include multiple <Address>
elements. -->
</addresses>
<!-- <enrichments> is optional -->
<enrichments>
  <Enrichment>
    <Type>string</Type>
    <PayloadXml>string</PayloadXml>
  </Enrichment>
  <!-- more <Enrichment> elements as needed. -->
</enrichments>
</Process>

```

## New Features in Informatica AddressDoctor Cloud V2

### Single-Line Address Validation

You can use single-line address validation to validate addresses entered into the `AddressComplete` element as a single line and receive suggestions to complete the address. To use the single-line address validation, set the process mode to `FASTCOMPLETION`.

You can use single-line address validation to validate addresses from the following countries:

- Australia
- Canada
- Germany
- Great Britain

- New Zealand
- United States of America

Informatica AddressDoctor Cloud identifies address elements in a single-line address input based on their position in the sequence the elements are entered. So, it is imperative that you follow the order shown in the following table when you enter single-line addresses in the `AddressComplete` element. When you enter an address in single line, ensure that you do not mix Delivery Address Line (DAL) elements and Country-Specific Locality Line (CSLLN) elements.

The following table shows the order of address elements for the supported countries.

Country	Order of Address Elements
Australia	Sub-building, House Number, Street, Main Locality, Province, Postal Code
Canada	Sub-building, House Number, Street, Delivery Service, Main Locality, Province, Postal Code
Germany	Street, House Number, Postal Code, Locality, Province
Great Britain	Sub-building, House Number, Street, Main Locality, SubLocality, Postal Code
New Zealand	Sub-building, House Number, Street, Delivery Service, Locality, Postal Code
United States	Sub-building, House Number, Street, Locality, Province, Postal Code

As you see in the preceding table, the typical sequence of address elements is from the specific to the generic. You must enter the elements in the specified sequence even if you leave out some of the elements from the input. However, for optimum results, we recommend that you provide as many details as possible in the input. Even though delimiters are not mandatory in a single-line address input, a comma or semicolon in the input is considered as an element separator and might fetch better suggestions. Note that Informatica AddressDoctor Cloud currently does not support country, organization, building, or contact information in the single-line address input.

If the single-line address input contains only a numeric input, Informatica AddressDoctor Cloud considers it as the Postal Code and returns suggestions accordingly. For countries where the house number appears on the left side of the street name or locality, if the single-line address input begins with a number that is followed by a string, Informatica AddressDoctor Cloud considers the number as a house number and the following string as the street name or locality. If no match is found for this combination, Informatica AddressDoctor Cloud attempts to interpret the input as street name without house number or as a combination of postal code and locality.

When there is no perfect match for an input, Informatica AddressDoctor Cloud returns multiple suggestions to help you choose the most appropriate result. If the single-line address input maps to a country that is not supported for single-line address validation, Informatica AddressDoctor Cloud returns the process status code **W9** which denotes that the address was not processed.

## AddressCodeLookup

You can use the `ADDRESSCODELOOKUP` process mode to enter a country-specific address code and retrieve the complete or partial address for the code.

Because Informatica AddressDoctor Cloud considers the `ADDRESSCODELOOKUP` transactions as batch transactions, you must have sufficient batch transactions in your account to use this process mode. Currently, Informatica AddressDoctor Cloud supports the `ADDRESSCODELOOKUP` process mode for the following countries and codes:

- Germany: DEU\_AGS, DEU\_LOCALITY\_ID, DEU\_STREET\_ID
- South Africa.: ZAF\_NADID
- Serbia: SRB\_PAK
- UK: GBR\_UDPRN
- Japan: JPN\_CHOUMEI\_AZA\_CODE, JPN\_CHOUMEI\_AZA\_GAIKU\_CODE

Informatica AddressDoctor Cloud also introduces two new process status codes that denote the status of an `ADDRESSCODELOOKUP` request. A process status of **A0** indicates that no information was found for the code you entered. A process status of **A1** indicates that partial or complete address was available for the code you entered.

## Configurable Output Format for Element Descriptors

You can specify the output format for street, building, and sub-building element descriptors in Australia and New Zealand addresses and the *Strasse* element in Germany addresses.

To specify the output format for the element descriptors, configure one of the following values for the `GlobalPreferredDescriptor` parameter.

**DATABASE.** Returns the element descriptor that the reference database specifies for the address. If the database does not specify a descriptor for the address, Informatica AddressDoctor Cloud copies the input value to the output address. **DATABASE** is the default value.

**LONG.** Returns the expanded form of the element descriptor in the input address.

**SHORT.** Returns the abbreviated form of the element descriptor in the input address.

**PRESERVE\_INPUT.** Copies the element descriptor from the input address to the output address. If the input element descriptor is not an official name, Informatica AddressDoctor returns the corresponding value from the reference address database. For example, **BD** is not an official name for boulevard in Australia. When you validate an Australia address where the input contains **BD**, Informatica AddressDoctor Cloud corrects it to **BVD** which is the short form for boulevard in the reference database for Australia addresses.

## Support for Preserving Alias or Vanity Names for Localities and Streets

You can choose to retain the aliases or vanity names for localities and streets in the validated address outputs. You can set one of the following values for the `AliasLocality` and `AliasStreet` parameters to specify whether you want the vanity name or the official name in the output.

- **PRESERVE**. To retain the alias name or vanity name in the validated output.
- **OFFICIAL**. To receive the alias or the postal name as mandated by the postal regulations of the country in the validated output.
- **OFF**. To receive the postal name for the locality or street in the output.

The default value is OFFICIAL. If you are validating addresses in the certified mode, set these parameters to OFFICIAL.

## Point Address Geocoding

Informatica AddressDoctor Cloud supports the following point address geocoding types.

- Arrival Point (**ARRIVAL\_POINT**). The geo-coordinates are calculated for a point that is placed in the center of a street segment in front of the house. If the arrival point geo-coordinates do not exist, then Informatica AddressDoctor uses the Standard Geocode database as a fallback to interpolate the geo-coordinates. Arrival Point geocoding is the default option. For United Kingdom addresses, Informatica AddressDoctor Cloud provides the rooftop geo-coordinates when the geocoding type is set to ARRIVAL\_POINT. Rooftop geo-coordinates are the measured coordinates for the center of the roof for the primary building on a parcel of land.
- Parcel Centroid (**PARCEL\_CENTROID**). The geo-coordinates are calculated for a point that is at the geographic center of the parcel of land.

Informatica AddressDoctor Cloud provides the point address geo-coordinates for addresses from the following countries:

- Austria
- Canada
- Denmark
- Finland
- Germany
- Hungary
- Latvia
- Luxemburg
- Mexico
- Netherlands
- Norway
- Slovenia

**Note:** Informatica AddressDoctor Cloud supports only ARRIVAL\_POINT geocoding for Mexico addresses.



- Sweden
- UK

**Note:** Informatica AddressDoctor Cloud supports only ARRIVAL\_POINT (rooftop) geocoding for UK addresses.

- USA

## Ability to Retrieve Address Codes for Outdated Japan Addresses

You can now set the `MatchingExtendedArchive` parameter to retrieve the new address code for deprecated or outdated addresses for Japan.

If the input address is an outdated address, and the `MatchingExtendedArchive` and `SUPPLEMENTARY_JP` parameters are enabled, Informatica AddressDoctor validates the old address against the archived addresses in the reference database. Informatica AddressDoctor returns the validated outdated address with the old Choumei Aza code and the new Choumei Aza code as enrichment values. You can provide the new Choumei Aza code as input for the `ADDRESSCODELOOKUP` processing mode and receive the corresponding new address. If `MatchingExtendedArchive` is set to **OFF**, the outdated input address is likely to be rejected, or to be corrected to some other address.

For outdated addresses, Informatica AddressDoctor Cloud returns an EERS value of F.