Informatica® Informatica AddressDoctor Cloud
2

Release Notes

Informatica Informatica AddressDoctor Cloud Release Notes
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Abstract

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.

CHAPTER 1

Overview

This chapter includes the following topics:

Informatica AddressDoctor Cloud Overview

Informatica AddressDoctor Cloud is an online address validation solution that you can use to verify and validate international postal addresses in real time. Informatica AddressDoctor Cloud is a SOAP-based solution that runs on top of the latest Informatica AddressDoctor software and the most up-to-date reference address databases.

You can integrate Informatica AddressDoctor Cloud with CRM systems, e-commerce sites, or other cloud- or web-based solutions to verify and validate addresses. You can access Informatica AddressDoctor Cloud over Secure Sockets Layer (SSL) connections. To access Informatica AddressDoctor Cloud, you need an Informatica AddressDoctor Data Quality Center (DQC) user account with sufficient valid transactions.

A new version number in the Informatica AddressDoctor Cloud interface indicates a new Informatica AddressDoctor Cloud interface. For example, the current Informatica Cloud URL contains the version number V2. To access the latest Informatica AddressDoctor Cloud features, ensure that your SOAP calls point to the latest Informatica AddressDoctor Cloud URL.

If you do not want to upgrade an Informatica AddressDoctor Cloud implementation, you can continue to access the previous versions until the time Informatica AddressDoctor supports the version. For more details about versions that Informatica AddressDoctor supports, contact an Informatica AddressDoctor sales representative.

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. 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 other than boolean values use UPPERCASE. For boolean values, use either lowercase true or false or numeric values 1 or 0.

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>
      <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>
```

```xml
            <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>
```

```xml
              <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>
```

CHAPTER 2

New Features in Informatica AddressDoctor Cloud V2

This chapter includes the following topics:

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 you enter the elements. 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, to receive optimum results, you provide as many details as possible in the input. Even though delimiters are not mandatory in a single-line address input, Informatica AddressDoctor Cloud considers a comma or semicolon in the input as an element separator. You might receive better suggestions for inputs with element separators. Note that Informatica AddressDoctor Cloud 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 street name or locality. If Informatica AddressDoctor Cloud does not find a match for this combination, Informatica AddressDoctor Cloud interprets 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 Informatica AddressDoctor does not support for single-line address validation, Informatica AddressDoctor Cloud returns the process status code **W9**. A process status code of W9 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. 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 Informatica AddressDoctor Cloud could not find any information 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 subbuilding element descriptors in Australia and New Zealand addresses and the *Strasse* element in Germany addresses.

To specify the output format for the element descriptors, you can 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 the descriptor to BVD. BVD is the short form for boulevard in the Australia reference address database.

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 output. 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, 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 returns the rooftop geo-coordinates if you set the geocoding type 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.

You can retrieve the point address geo-coordinates for addresses from the following countries:

- Australia
- Austria
- Canada
- Denmark
- Finland
- France
- Germany
- Hungary
- Latvia
- Liechtenstein
- Luxemburg
- Mexico

  Note: Informatica AddressDoctor Cloud supports only ARRIVAL_POINT geocoding for Mexico addresses.

- Netherlands
- Norway
- Slovakia

  Note: Informatica AddressDoctor Cloud supports only ARRIVAL_POINT geocoding for Slovakia addresses.

- Slovenia
- Sweden
- Switzerland
- 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 set the `MatchingExtendedArchive` parameter to retrieve the new address code for deprecated or outdated Japan addresses.

Informatica AddressDoctor Cloud validates the old address against the archived addresses in the reference database if you set `MatchingExtendedArchive` to **true** and the enrichment type to `SUPPLEMENTARY_JP`. Along with the validated output, Informatica AddressDoctor Cloud returns 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 you set `MatchingExtendedArchive` to **false**, the Informatica AddressDoctor Cloud might reject the input address or correct it to some other address.

For outdated addresses, Informatica AddressDoctor Cloud returns an Extended Element Result Status (EERS) value of F.