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This document contains an overview of Informatica Address Verification and the SOAP interface used for Informatica Address Verification transactions. This document also contains information about the new features introduced in Informatica Address Verification V3.

# Overview

## Informatica Address Verification Overview

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

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

A new version number in the Address Verification interface indicates a new Address Verification interface. For example, the current Informatica Address Verification URL contains the version number V3. To access the latest Address Verification features, ensure that your SOAP calls point to the latest Address Verification URL.

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

## Interface Overview

You can use SOAP 1.1 or SOAP 1.2 to communicate with Informatica Address Verification. You can access Address Verification 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 Address Verification 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/v3">
  <login>string</login>
  <password>string</password>
  <parameters>
    <ProcessMode>string</ProcessMode>
    <ServiceParameters>
      <JobToken>string</JobToken>
      <CampaignId>string</CampaignId>
    </ServiceParameters>
  </parameters>
</Process>
```

```

    <ReservedXml>string</ReservedXml>
    <UseTransactionPool>string</UseTransactionPool>
</ServiceParameters>
<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>
        <Element>string</Element>
        <Casing>string</Casing>
        <MaxLength>int</MaxLength>
        <MaxItemCount>int</MaxItemCount>
    </Standardizations>
    <Standardizations>
        <Element>string</Element>
        <Casing>string</Casing>
        <MaxLength>int</MaxLength>
        <MaxItemCount>int</MaxItemCount>
    </Standardizations>
    <AdditionalInformationSet>
        <Name>string</Name>
        <Value>string</Value>
    </AdditionalInformationSet>
    <AdditionalInformationSet>
        <Name>string</Name>
        <Value>string</Value>
    </AdditionalInformationSet>
    <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>
    </Address>
</addresses>

```

```

<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>
  <Organization xsi:nil="true" />
  <Contact xsi:nil="true" />
  <Building xsi:nil="true" />
  <SubBuilding xsi:nil="true" />
  <Street xsi:nil="true" />
  <HouseNumber xsi:nil="true" />
  <DeliveryService xsi:nil="true" />
  <Locality xsi:nil="true" />
  <PostalCode xsi:nil="true" />
  <Province xsi:nil="true" />

```

```

        <Country xsi:nil="true" />
        <Residue xsi:nil="true" />
    </AddressDetailed>
</Address>
<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>
        <Organization xsi:nil="true" />
        <Contact xsi:nil="true" />
        <Building xsi:nil="true" />
        <SubBuilding xsi:nil="true" />
        <Street xsi:nil="true" />
        <HouseNumber xsi:nil="true" />
        <DeliveryService xsi:nil="true" />
        <Locality xsi:nil="true" />
        <PostalCode xsi:nil="true" />
        <Province xsi:nil="true" />
        <Country xsi:nil="true" />
        <Residue xsi:nil="true" />
    </AddressDetailed>
</Address>
</addresses>
<enrichments>
    <Enrichment>
        <Type>string</Type>
        <PayloadXml>string</PayloadXml>
    </Enrichment>
    <Enrichment>
        <Type>string</Type>
        <PayloadXml>string</PayloadXml>
    </Enrichment>

```

```
</enrichments>
</Process>
</soap:Body>
</soap:Envelope>
```

## New Features and Enhancements in Version 3

Informatica Address Verification introduces the following new features and enhancements in version 3:

### Support for Hexaligne 3 Data in France Address Certification

Informatica Address Verification can use Hexaligne 3 data to verify France addresses in certified mode.

The Hexaligne 3 file contains additional data about the building that contains the address mailbox.

### Enhancements to AddressCodeLookup Mode

Informatica Address Verification returns all available enrichment data with an output address from any country that supports a unique identifier value as a lookup key.

You can enter a lookup key for an address in Germany, Great Britain, Japan, Serbia, South Africa, and South Korea in Address Verification version 3.

To retrieve address data in the address code lookup mode, set the `ProcessMode` parameter to `ADDRESSCODELOOKUP`.

Address Verification 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
- South Korea: KOR\_ADDRESS\_ID
- United Kingdom: GBR\_UDPRN, GBR\_UPRN
- Japan: JPN\_CHOUMEI\_AZA\_CODE, JPN\_CHOUMEI\_AZA\_GAIKU\_CODE

### Enhancements to Rooftop Geocoding Support for United Kingdom Addresses

You can retrieve high-precision rooftop geocoordinates for United Kingdom addresses.

To retrieve high-precision rooftop geocoordinates for United Kingdom addresses, set the `GeoCodingType` parameter in the `Process` tag to `ROOFTOP`.



## Reference Data Support for Individual House Numbers and Additional Enrichment of Germany Addresses

You can verify individual house numbers in Germany addresses. You can also retrieve the three-digit street code from the Frachtleitcode (or Freight Code) as an additional enrichment for verified Germany addresses. Street codes identify streets in Germany. Positions 6, 7, and 8 of the Frachtleitcode form the street code. A street code value of 994 indicates that the address points to a packstation. A packstation is a service delivery point of DHL Parcel Germany.

To retrieve the street code as an enrichment, you must set the `Type` attribute of the `Enrichment` parameter to `SUPPLEMENTARY_DE` and the `EnrichmentSupplementaryDE` attribute to `true`. Address Verification returns the street code in the `STREET_CODE` field.

## Enrichment for South Korea Addresses

Informatica Address Verification introduces the following changes to South Korea address verification:

### Address ID values as an Enrichment to South Korea Addresses

You can retrieve address ID values as an enrichment to valid South Korea addresses. The address ID value is a unique string that Address Verification assigns to South Korea addresses. Use the address ID value to obtain a South Korea address in the current, street-based format or in the older, land lot-based format. You can also use the address ID value to obtain the six-digit post code or the five-digit post code for the address.

To receive the address ID as an enrichment, set the `EnrichmentSupplementaryKR` attribute of the `Enrichment` parameter to `true` or `1`.

### Address Code Lookup Support for South Korea

When you use the address ID value to retrieve South Korea address information, configure Address Verification to run in address code lookup mode. To enable address code lookup for a South Korea address, set the `Type` attribute of the `AddressCode` element to `KOR_ADDRESS_ID`.

### Support for the Hangul Script in South Korea Addresses

The default script of the South Korea reference address database is Hangul. You can use Address Verification to verify South Korea addresses in the Hangul script and to receive the result output in Hangul script. Alternatively, you can configure the `PreferredScript` attribute of the `Validation` parameter to an appropriate value to receive the output in the ASCII script.

### Support for New Postal Codes in South Korea

Address Verification supports the new, five-digit postal codes and the older, six-digit postal codes in South Korea. To verify the six-digit post codes, set the `MatchingExtendedArchive` attribute of the `Process` parameter to `true` or `1`. If you do not set `MatchingExtendedArchive` to `true`, Address Verification identifies the six-digit post codes as not valid.

### Verification of Outdated South Korea Addresses

You can verify older, land lot-based addresses and addresses with older, six-digit post codes in South Korea. To verify the address and post code data, set the `MatchingExtendedArchive` attribute of the `Process` parameter to `true` or `1`. When you set `MatchingExtendedArchive` to `ON`, Address Verification returns an extended element result status of `F` if the address or the post code uses the

older format. Address Verification does not return older address information if you set `MatchingExtendedArchive` to `false` or `0`.

Previously, Address Verification identified land lot-based addresses as not valid.

## Support for Macau

You can use Informatica Address Verification to verify addresses from Macau. You can verify Macau addresses in the batch, interactive, or fast completion modes.

The reference databases for Macau contain address information up to the building level. Macau does not have a postal code system. The reference address databases for Macau are in the Portuguese language and use the Latin script.

## Support for Eircodes in Ireland Addresses

Address Verification supports the eircode system in Ireland. An eircode is a seven-character code that uniquely identifies an Ireland address. The eircode system covers all residences, public buildings, and business premises and includes apartment addresses and addresses in rural townlands.

## Support for Non-Postal Addresses in New Zealand

You can use Informatica Address Verification to verify non-postal addresses, such as highways, parks, private bag, counter delivery, community mail box, and response bag, in New Zealand.

Address Verification verifies non-postal addresses in the same way that it verifies postal addresses. You can verify non-postal addresses in batch, interactive, and fast completion modes. New Zealand Post does not recognize the non-postal addresses or provides such addresses.

## Multilanguage Support for Province Information in Switzerland Addresses

Informatica Address Verification extends multilanguage support to province information in Switzerland addresses. Address Verification can return the province information in English, German, French, or Italian.

You can specify the language in the `PreferredLanguage` parameter. By default, Address Verification returns the information in the default language of the corresponding reference address database entry.

## Subbuilding Support for Spain

You can use Informatica Address Verification to return subbuilding information for addresses in Spain. Address Verification supports up to three subbuilding levels in Spain addresses.

## Support for House Number Verification in Taiwan Addresses

Informatica Address Verification verifies the house number information in Taiwan addresses.

Address Verification verifies the house number information when you verify addresses in Mandarin Traditional Chinese or in English. However, in the interactive and fast completion modes, you receive the best results for house numbers when you enter Taiwan addresses in Mandarin Traditional Chinese.

## Support for Timor-Leste

You can use Informatica Address Verification to verify addresses from Timor-Leste (East Timor). You can verify addresses from Timor-Leste in batch, interactive, and fast completion modes.

The reference address databases for Timor-Leste contain address information up to the street level. Timor-Leste does not have a postal code system. The reference address databases for Timor-Leste are in the Portuguese language and use the Latin script.

## Additional Enrichments for United Kingdom Addresses

You can retrieve delivery point type and organization key information as additional enrichments to verified United Kingdom addresses. The organization key is a unique eight-digit code that Royal Mail assigns to small organizations. The delivery point type is a single-character code that indicates whether the address points to a residence (R), a small organization (O), or a large organization (L).

To receive the delivery point type and organization key, set the `Type` attribute of the `Enrichment` parameter to `ENRICHMENTSUPPLEMENTARYGB`.

## Support for UPRN in the AddressCodeLookup Mode

You can use the Unique Property Reference Number (UPRN) codes to retrieve the corresponding United Kingdom addresses in the AddressCodeLookup mode. In the AddressCodeLookup mode, you can enter a UPRN and receive the corresponding address in the result output. UPRN is a numeric code that uniquely identifies a land or property unit in the United Kingdom.

To retrieve United Kingdom addresses using UPRN, set the `ProcessMode` parameter to `ADDRESSCODELOOKUP` and the `CodeType` tag of the `AddressCode` parameter to `GBR_UPRN`.

## NIS Code as Enrichment to Belgium Addresses

You can retrieve the NIS code as an enrichment to validated Belgium addresses. Informatica Address Verification returns a combination of the five-digit NIS code and a four-digit Neighbourhood ID along with the validated output for the Belgium addresses.

To receive NIS codes in the validated output for Belgium addresses, configure the `EnrichmentSupplementaryBE` attribute of the `Enrichment` parameter.

## Retrieving Detailed Information for Address Elements

You can retrieve detailed information for each `Address` element. To retrieve detailed information about an address element, set the `AddressDetailed` element under `OutputOptions` to ON.

The following example shows how you can enable the `AddressDetailed` element to retrieve detailed information for all address elements:

```
<v3:OutputOptions>
  <v3:AddressDetailed>ON</v2:AddressDetailed>
</v3:OutputOptions>
```

The default value for `AddressDetailed` is OFF. When you set `AddressDetailed` to ON, Informatica Address Verification returns detailed address information if the information is available in the database.

The following example shows the detailed information for the street element that Informatica Address Verification can return for 3500 MAIN STATION DR SW:

```
<AddressDetailed>
  <Street>
    <StreetDetailed>
      <Item>1</Item>
      <COMPLETE>MAIN STATION DR SW</COMPLETE>
      <COMPLETE_WITH_NUMBER>3500 MAIN STATION DR SW</COMPLETE_WITH_NUMBER>
      <NAME>MAIN STATION</NAME>
      <POST_DESCRIPTOR>DR</POST_DESCRIPTOR>
      <POST_DIRECTIONAL>SW</POST_DIRECTIONAL>
    </StreetDetailed>
  </Street>
</AddressDetailed>
```

## Ability to Remove Locality and Province Descriptors from China and Japan Addresses

You can remove the locality and province descriptors from China and Japan addresses if you set the following validation parameters:

- `PreferredLanguage` to ENGLISH.
- `PreferredScript` to ASCII\_SIMPLIFIED, ASCII\_EXTENDED, LATIN, LATIN\_1, or LATIN\_ALT.

For example, when you validate China addresses, Address Verification returns Chaoyang instead of Chaoyangqu and Beijing instead of Beijingshi.

When you validate Japan addresses, Address Verification returns Tokyo instead of Tokyo-to and Kyoto instead of Kyoto-fu.

## Ability to Retrieve Building-Level Rooftop Geocoordinates for the United Kingdom Addresses

You can retrieve rooftop geocoordinates for an United Kingdom address even when the input address does not contain a house number. Address Verification considers rooftop geocoordinates as arrival point geocoordinates.

To receive rooftop geocoordinates for the United Kingdom addresses, you must have GEOCODING transactions in your account and set the following parameters:

- The `GeoCodingType` validation parameter to ROOFTOP.
- The `enrichments Enrichment Type` parameter to GEOCODING.

## Multilanguage Support for Locality Information in Switzerland Address Output

You can configure Address Verification to return the locality information in Switzerland address results consistently in French, German, or Italian. In previous releases, Address Verification returned all information in the Switzerland address results in the main language of the region to which the address belonged.

You can configure the `PreferredLanguage` parameter to one of the following values and receive the locality information in the corresponding language:

### **ALTERNATIVE\_1**

German

### **ALTERNATIVE\_2**

French

### **ALTERNATIVE\_3**

Italian

If you set `PreferredLanguage` to DATABASE, Address Verification returns the address in the main language of the region to which the address belongs. For example, German in Zurich and French in Geneva.

If you set `PreferredLanguage` to ENGLISH, Address Verification returns the English name of the locality if it is different from the name in the local language. Address Verification returns the other address elements in the main language of the region to which the address belongs. Note that English locality names are available only for Zurich addresses.

If you set `PreferredLanguage` to PRESERVE\_INPUT, Address Verification returns the address in the same language in which you input the address. Note that Address Verification preserves the language only if the reference data is available in the same language that you used for the input. If the input address contains more than one language, Address Verification returns the output in the main language of the region.

Additionally, Address Verification returns the Street information for addresses in Biel/Bienne in the alternative language that you configured for the `PreferredLanguage` parameter.

## Ability to Validate Bulgaria Addresses in Cyrillic Script

You can validate Bulgaria addresses in the Cyrillic script. By default, you receive the validated results in the Cyrillic script. To receive the results in the Latin script, set the `PreferredScript` parameter to `ASCII_EXTENDED`, `ASCII_SIMPLIFIED`, `LATIN`, `LATIN_1`, or `LATIN_ALT`.

The other enhancements to Bulgaria address validation include high-quality reference address data and improved parsing of locality information in Bulgaria address.

## Ability to Validate Slovakia Addresses that Contain Street Name Abbreviations

You can validate Slovakia addresses with the following street name abbreviations:

- SNP. Slovak National Uprising
- ČSA. Czechoslovak Army
- arm. Army
- gen. General
- kpt. Captain
- mjr. Major
- nár. National
- národ. National
- nám. Square
- nábr. Waterfront
- Máj. The May
- pov. Uprising
- povst. Uprising
- čes. Czech

**Note:** Address Verification supports these abbreviations only in the input address and replaces these abbreviations with the postal authority-specified names in the validated output.

## FIAS ID as Enrichment to Russia Addresses

You can retrieve the Federal Information Addressing System (FIAS) ID as an enrichment to the validated Russia addresses. FIAS ID is a 16-character alphanumeric string.

To receive FIAS IDs in the validated output for Russia addresses, set the `Type` attribute of the `Enrichment` parameter to `ENRICHMENTSUPPLEMENTARYRU`.