

## Address Verification Best Practices for Argentina

## Abstract

This document tells you how to connect the elements in an Argentina address to the appropriate address elements in Informatica Address Verification. This document also describes best practices that you can implement when you verify addresses in Argentina.

## Supported Versions

- Informatica Address Verification 3.0 and later
- Informatica Address Verification (On-Premises) 5.x

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## Introduction

Informatica Address Verification can validate and enhance addresses in Argentina. This how-to article provides you with configuration information and best practices that you can follow to get the most from the addresses. The best practices include advice on how to select the appropriate XML elements for Argentina address data.

To verify the quality of an input address, Address Verification compares the address information to the data in one or more reference data files. You can configure Address Verification to identify the different types of address information in the input data. You must map each item of address information to an appropriate element in Address Verification.

When you select the input address elements, you must ensure that the elements are correct for the different types of input information. The country that the address identifies determines the elements that you need.

## Process Modes

Informatica Address Verification supports the following process modes for Argentina addresses:

- BATCH
- COUNTRY RECOGNITION
- FAST COMPLETION
- INTERACTIVE
- PARSE

## Character Set

Argentina reference address databases store address data in the Latin-1 script. By default, Informatica Address Verification returns the verified Argentina addresses in the Latin-1 script.

## Address Format and Address Structure

You improve the performance of Address Verification when you define the input address in the format that the postal service expects.

The Argentina postal service recognizes the following structure for a postal address:

```
Line 1: STREET HOUSE NUMBER [SUB-BUILDING INFORMATION]
Line 2: POSTAL CODE CITY
Line 3: COUNTRY
```

The following sample address illustrates the structure:

```
CALLE CARLOS PELLEGRINI 961 PISO 3ER
C1009ABS CIUDAD AUTONOMA BUENOS AIRES
ARG
```

## Key Address Elements

Address Verification is unlikely to verify an address successfully if one of the following items is absent from the address:

- Locality
- Postal Code
- Street

## Mapping Input Address Data to Address Elements

To verify an address, map the input address information to appropriate elements in Address Verification.

The following table shows how you can map the input address to the address elements:

Information Type	Address Information	Address Elements
Street Name	CALLE CARLOS PELLEGRINI	Street
House Number	961	HouseNumber
Floor	PISO 3ER	SubBuilding
Postal Code	C1009ABS	PostalCode
City	CIUDAD AUTONOMA BUENOS AIRES	Locality

## Input and Result XML in Address Verification (On-Premises)

The following example shows how you can map the address information to the XML address elements in Address Verification (On-Premises).

You enter the following input address:

```
<InputData>
  <AddressElements>
    <Country Item="1" Type="NAME">ARGENTINA</Country>
    <Locality Item="1" Type="COMPLETE">CIUDAD AUTONOMA BUENOS AIRES</Locality>
    <PostalCode Item="1" Type="UNFORMATTED">C1009ABS</PostalCode>
    <Street Item="1" Type="COMPLETE">CALLE CARLOS PELLEGRINI</Street>
    <Number Item="1" Type="COMPLETE">961</Number>
    <SubBuilding Item="1" Type="COMPLETE">3ER PISO</SubBuilding>
  </AddressElements>
</InputData>
```

Informatica Address Verification (On-Premises) returns the following result:

```
<?xml version="1.0" encoding="UTF-16"?>

<!-- EngineVersion="5.16.1.55824" -->

<Result ProcessStatus="V4"
  ModeUsed="BATCH"
  Count="1"
  CountOverflow="NO"
  CountryISO3="ARG"
  PreferredScript="LATIN_1"
  PreferredLanguage="DATABASE">

  <ResultData ResultNumber="1"
    MailabilityScore="5"
    ResultPercentage="100.00"
    ElementResultStatus="F0F080F0F000004000E0"
    ElementInputStatus="60600060600000200060"
    AddressResolutionCode="00000000000000000000"
    ExtElementStatus="0000000000000000B00000"
    ElementRelevance="101000101000000000010"
    AddressType="S"
    LanguageISO3="???">
    <AddressElements>
      <Country Type="NAME_EN" Item="1">ARGENTINA</Country>
      <Locality Item="1">CIUDAD AUTONOMA BUENOS AIRES</Locality>
      <PostalCode Item="1">C1009ABS</PostalCode>
      <Province Item="1">CAPITAL FEDERAL</Province>
      <Street Item="1">CALLE CARLOS PELLEGRINI</Street>
      <Number Item="1">961</Number>
      <SubBuilding Item="1">PISO 3ER</SubBuilding>
    </AddressElements>
    <AddressLines>
      <DeliveryAddressLine Line="1">CALLE CARLOS PELLEGRINI 961 PISO 3ER</DeliveryAddressLine>
      <CountrySpecificLocalityLine Line="1">C1009ABS CIUDAD AUTONOMA BUENOS AIRES</
CountrySpecificLocalityLine>
      <FormattedAddressLine Line="1">CALLE CARLOS PELLEGRINI 961 PISO 3ER</
FormattedAddressLine>
      <FormattedAddressLine Line="2">C1009ABS CIUDAD AUTONOMA BUENOS AIRES</
FormattedAddressLine>
    </AddressLines>
    <AddressComplete>CALLE CARLOS PELLEGRINI 961 PISO 3ER
C1009ABS CIUDAD AUTONOMA BUENOS AIRES</AddressComplete>
  </ResultData>
</Result>
```

## Input and Result XML in Address Verification

The following example shows how you can verify an Argentina address in a SOAP call to Address Verification.

You submit the following request:

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:v="http://
validator5.AddressDoctor.com/Webservice5/v4">
  <soap:Header/>
  <soap:Body>
    <v:Process>
      <v:login>****</v:login>
      <v:password>****</v:password>
      <v:parameters>
        <v:ProcessMode>BATCH</v:ProcessMode>
        <v:ServiceParameters></v:ServiceParameters>
        <v:ValidationParameters>
          </v:ValidationParameters>
        </v:parameters>
      <v:addresses>
        <v:Address>
          <v:FormattedAddress>
            <v:string>CALLE CARLOS PELLEGRINI 961 3ER PISO</v:string>
            <v:string>C1009ABS CIUDAD AUTONOMA BUENOS AIRES</v:string>
            <v:string>ARGENTINA</v:string>
          </v:FormattedAddress>
        </v:Address>
      </v:addresses>
      <v:enrichments>
        </v:enrichments>
    </v:Process>
  </soap:Body>
</soap:Envelope>
```

Informatica Address Verification returns the following response:

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:xsi="http://
www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <ProcessResponse xmlns="http://validator5.AddressDoctor.com/Webservice5/v4">
      <ProcessResult>
        <StatusCode>100</StatusCode>
        <StatusMessage>OK</StatusMessage>
        <Results>
          <Result>
            <ProcessStatus>V4</ProcessStatus>
            <CountryISO3>ARG</CountryISO3>
            <ResultDataSet>
              <ResultData>
                <ResultNumber>1</ResultNumber>
                <MailabilityScore>5</MailabilityScore>
                <ResultPercentage>100.00</ResultPercentage>
                <ElementInputStatus>60600060600000200060</ElementInputStatus>
                <ElementResultStatus>F0F080F0F00004000E0</ElementResultStatus>
                <ElementRelevance>10100010100000000010</ElementRelevance>
                <ExtElementStatus>00000000000000B00000</ExtElementStatus>
                <AddressResolutionCode>000000000000000000</AddressResolutionCode>
                <AddressType>S</AddressType>
                <LanguageISO3>??</LanguageISO3>
                <Address>
                  <SubBuilding>
                    <string>PISO 3ER</string>
                  </SubBuilding>
                  <Street>
                    <string>CALLE CARLOS PELLEGRINI</string>
                  </Street>
                  <HouseNumber>
                    <string>961</string>
                  </HouseNumber>
                  <Locality>
                    <string>CIUDAD AUTONOMA BUENOS AIRES</string>
                  </Locality>
                </Address>
              </ResultData>
            </Result>
          </Results>
        </ProcessResult>
      </ProcessResponse>
    </soap:Body>
  </soap:Envelope>
```

```

        </Locality>
        <PostalCode>
          <string>C1009ABS</string>
        </PostalCode>
        <Province>
          <string>CAPITAL FEDERAL</string>
        </Province>
        <Country>
          <string>ARGENTINA</string>
        </Country>
        <DeliveryAddressLines>
          <string>CALLE CARLOS PELLEGRINI 961 PISO 3ER</string>
        </DeliveryAddressLines>
        <CountrySpecificLocalityLine>
          <string>C1009ABS CIUDAD AUTONOMA BUENOS AIRES</string>
        </CountrySpecificLocalityLine>
        <FormattedAddress>
          <string>CALLE CARLOS PELLEGRINI 961 PISO 3ER</string>
          <string>C1009ABS CIUDAD AUTONOMA BUENOS AIRES</string>
          <string>ARGENTINA</string>
        </FormattedAddress>
        <AddressComplete>CALLE CARLOS PELLEGRINI 961 PISO 3ER;C1009ABS
        CIUDAD AUTONOMA BUENOS AIRES;ARGENTINA</AddressComplete>
      </Address>
    </ResultData>
  </ResultDataSet>
</Result>
</Results>
</ProcessResult>
</ProcessResponse>
</soap:Body>
</soap:Envelope>

```

## Address Enrichments

You can configure Informatica Address Verification to add enrichments to verified Argentina addresses.

The following table lists the types of enrichment that you can add to an Argentina address:

Enrichment Type	Description
Standard Geocoding	You can retrieve standard, interpolated geocoordinates for valid Argentina addresses.
Arrival Point Geocoding	You can retrieve arrival point geocoordinates for valid Argentina addresses.

## Reference Address Databases

Informatica updates the Argentina reference address databases yearly. You can download the latest database packages from the Informatica Database Download portal. For news about reference address databases and software updates for Address Verification, subscribe to the Informatica DaaS Newsletter from Informatica.

Informatica Address Verification provides the following reference databases for Argentina addresses:

- ARG5BI.MD. Batch and interactive data.
- ARG5FC.MD. Fast completion data.
- ARG5GC.MD. Standard geocoding data.
- ARG5GCAP.MD. Arrival point geocoding data.

**Note:** You download databases for Informatica Address Verification (On-Premises). You do not need to download databases for Informatica Address Verification, as Informatica Address Verification uses a cloud interface.

## Additional Documentation Resources

To view the latest documentation for Informatica Address Verification, click the following links:

[https://network.informatica.com/community/informatica-network/products/data\\_quality/data-as-a-service/address-doctor](https://network.informatica.com/community/informatica-network/products/data_quality/data-as-a-service/address-doctor)

[https://network.informatica.com/community/informatica-network/products/data\\_quality/data-as-a-service/address-doctor-cloud](https://network.informatica.com/community/informatica-network/products/data_quality/data-as-a-service/address-doctor-cloud)

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