



Address Verification 5.12.0 Release Notes (On-Premises) October 2017

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This document contains important information about installation, new features, changed features, and fixed limitations for Informatica Address Verification (On-Premises).

If you connect to Informatica Address Verification in the cloud, you can use this document to learn about the current capabilities of the Address Verification engine.

Informatica Address Verification Installation

Memory Requirements

Informatica Address Verification is designed to be highly efficient in its memory and resource usage. To ensure best possible performance, install Informatica Address Verification on a device that has fast input and output systems and sufficient memory.

The device on which you install Informatica Address Verification must have a minimum of 512 MB RAM.

Before you finalize the memory requirements, consider the size of the reference address databases that are required for your specific needs. Preloading databases significantly improves the performance of Informatica Address Verification. The device on which you install Informatica Address Verification must have sufficient RAM to preload all the required databases.

The complete set of worldwide postal reference databases including supplementary databases for address enrichments requires around 40 GB of storage space. However, for typical installations that do not require all the databases, 20 to 25 GB of RAM should be sufficient.

Tip: If full preloading of databases is not an option, use solid-state drives to store the reference address databases. Solid-state drives are faster than hard-disk drives and can significantly improve performance especially when multithreading is used.

System Configuration

When you install Informatica Address Verification, verify that the operating system and the processor architecture are compatible on the installation host machine. Verify also that the installation host machine runs a Java Development Kit that is compatible with the processor architecture and the operating system.

The following table lists the system configurations that you can use for Informatica Address Verification installation:

Operating System	Processor Architecture	Java Development Kit
Windows Server 2008 SP2	x86 (32-bit)	Oracle Java SE 7 or later
Windows Server 2008 R2 Windows Server 2012 R2	x64 (64-bit)	Oracle Java SE 7 or later
SUSE Linux Enterprise Server 12	x64 (64-bit)	Oracle Java SE 7 or later
SUSE Linux Enterprise Server 11	x64 (64-bit) x86 (32-bit)	Oracle Java SE 7 or later
SUSE Linux Enterprise Server 10	x64 (64-bit) x86 (32-bit)	Oracle Java SE 7 or later
RedHat Enterprise Linux 6 and 7	x64 (64-bit) x86 (32-bit)	Oracle Java SE 7 or later
RedHat Enterprise Linux 6 and 7	System z (64-bit)	IBM Java SE 7 or later
AIX 6 and 7	POWER (64-bit)	IBM Java SE 7 or later
Solaris 10	Intel (64-bit)	Oracle Java SE 7 or later
Solaris 11	SPARC (64-bit)	Oracle Java SE 7 or later

Developer Support

Informatica develops Informatica Address Verification in the C++ programming language. The Informatica Address Verification software packages contain APIs in C and in Java.

The Informatica Address Verification Developer Guide contains examples for the C and Java APIs. You can use the examples to develop Informatica Address Verification implementations in other languages, such as C++, C#, Visual Basic, .Net, PHP, Perl, Ruby, and Python.

Informatica Address Verification provides technical support for C-based and Java-based APIs. Informatica Address Verification does not provide implementation-specific technical support.

For more information about or assistance with address verification projects, contact the Informatica Professional Services team.

Informatica Address Verification Version 5.12.0

Highlights of Informatica Address Verification Version 5.12.0

The following table lists the new features of Informatica Address Verification in version 5.12.0:

New	Single-line address verification for Argentina addresses.
New	Single-line address verification for Brazil addresses.
New	Support for the uppercase character ß in Austria, Germany, and Switzerland addresses.
New	Support for rooftop geocoordinates for Hong Kong addresses.
New	Single-line address verification for Mexico addresses.
New	Support for building information in South Korea addresses.
New	Native support for Thailand addresses. Address Verification can read and write Thailand addresses in Thai and Latin scripts.
New	Support for territory names in the Country_2 element in United Kingdom addresses.
New	Support for three levels of sub-building information in United States addresses.
Updated	Improved parsing and validation of addresses in Colombia. Improved reference data for Colombia.
Updated	Improved validation of addresses in India. Improved reference data for India.
Updated	Improved parsing and validation of addresses in Philippines. Improved reference data for Philippines.
Updated	Improved parsing and validation of addresses in South Africa.
Updated	Enhanced results in Address Code Lookup Mode for South Korea addresses.
Updated	Improved parsing and validation of addresses in Spain.
Updated	Improved parsing and validation of addresses in Taiwan.
Updated	Improvements to validation in United Arab Emirates addresses.
Updated	Improved parsing and validation of addresses in Thailand. Improved reference data for Thailand.

New Features and Enhancements (Version 5.12.0)

This section lists the new features and enhancements to Informatica Address Verification in different countries in version 5.12.0.

Argentina

Effective in version 5.12.0, you can configure Informatica Address Verification to return valid suggestions for an Argentina address that you enter on a single line.

Enter an Argentina address in the following format:

```
[Street] [House Number] [Dependent Locality] [Post Code] [Locality]
```

To verify single-line addresses, enter the addresses in the `AddressComplete` element that the `InputData.xml` file specifies.

Brazil

Effective in version 5.12.0, you can configure Informatica Address Verification to return valid suggestions for a Brazil address that you enter on a single line.

Enter a Brazil address in the following format:

```
[Street] [House Number] [Locality] [State Code] [Post Code]
```

To verify single-line addresses, enter the addresses in the `AddressComplete` element that the `InputData.xml` file specifies.

Colombia

Effective in version 5.12.0, Informatica Address Verification improves the parsing and validation of Colombia addresses. Additionally, Informatica updates the reference data for the Colombia.

Address Verification includes the following improvements for Colombia:

- Address Verification validates an address to house number level.
- The reference data includes street data.

Hong Kong

Effective in version 5.12.0, Informatica Address Verification supports rooftop geocoding for Hong Kong Addresses. Address Verification can return rooftop geocoordinates for a Hong Kong address that you submit in the Chinese language or the English language.

Address Verification can consider all three levels of building information when it generates the geocoordinates. It delivers rooftop geocoordinates to the lowest level available in the verified address.

To retrieve rooftop geocoordinates for Hong Kong addresses, install the `HKG5GCRT.MD` database.

India

Effective in version 5.12.0, Informatica Address Verification improves the validation of India addresses. Additionally, Informatica updates the reference data for India.

Address Verification includes the following improvements for India:

- Address Verification validates an address up to house number level.
- Address Verification returns the province information for an address if the information is available in the reference database.

- If you enter only postcode information in an address, Address Verification can return multiple suggestions in fast completion mode.
- Address Verification can add postcode information to an address output if the input address contains street and locality information.

Mexico

Effective in version 5.12.0, you can configure Informatica Address Verification to return valid suggestions for a Mexico address that you enter on a single line.

Enter a Mexico address in the following format:

```
[Street] [House Number] [Sub-locality] [Post Code] [Locality] [Province]
```

To verify single-line addresses, enter the addresses in the `AddressComplete` element that the `InputData.xml` file specifies.

Address Verification Engine Certification

Effective in version 5.12.0, Informatica Address Verification is formally re-certified for all five global certifications.

Address Verification complies with the standards of the following postal certifications:

- Address Matching Approval System (AMAS) certification for Australia Post.
- Coding Accuracy Support System (CASS) certification for the United States Postal Service.
- SendRight certification for New Zealand Post.
- Service National de L'Adresse (SNA) certification for La Poste of France.
- Software Evaluation and Recognition Program (SERP) certification for Canada Post.

South Africa

Effective in version 5.12.0, Informatica Address Verification improves the parsing and verification of delivery service descriptors in South Africa addresses.

Address Verification improves the parsing and verification of the delivery service descriptors in the following ways:

- Address Verification recognizes Private Bag, Cluster Box, Post Office Box, and Postnet Suite as different types of delivery service. Address Verification does not standardize one delivery service descriptor to another. For example, Address Verification does not standardize Postnet Suite to Post Office Box.
- Address Verification parses Postnet Box as a non-standard delivery service descriptor and corrects Postnet Box to the valid descriptor Postnet Suite.
- Address Verification does not standardize the sub-building descriptor Flat to Fl.

South Korea

Informatica Address Verification introduces the following features and enhancements for South Korea:

Support for Building Information in South Korea Addresses

Effective in version 5.12.0, the South Korea reference data includes building information. Address Verification can read, verify, and correct the building information in a South Korea address.

When you validate South Korea addresses, bear in mind that building information is postally relevant in some South Korea addresses but is not relevant in others. Additionally, bear in mind that an older South Korea address might identify a property for which multiple current addresses are valid.

Address Verification considers the following scenarios with respect to building information when it validates a South Korea address:

The input address omits relevant building information but is otherwise complete. The reference data can match a single building with the address.

In this scenario, Address Verification returns a Vx or Cx status for the address in all process modes and adds the building information to the output address.

The input address omits relevant building information but is otherwise complete. The reference data can match multiple buildings with the address.

The scenario might arise when the input address might identify one of several buildings on a property. In this scenario, Address Verification rejects the address with an I3 status. Address Verification returns an Address Resolution Code value of 2 to indicate that the missing information is available in the reference data.

To return the valid addresses with the relevant building information, submit the input address in interactive mode or fast completion mode.

The input address is valid without building information, but the reference data can also match multiple buildings with the address.

The scenario might arise when the input address identifies a property on which multiple buildings are located. In this scenario, Address Verification returns a Vx or Cx status for the address in batch or interactive mode and does not append any building information to the output address.

Address Verification returns an Extended Element Result Status value of 1 to indicate that the reference data can match multiple buildings for the address.

To return the valid addresses with the relevant building information, submit the input address in fast completion mode.

Note: When you verify older versions of an address, such as a lot-based address in South Korea, set the `MatchingExtendedArchive` attribute of the `Process` element to ON in the `Parameters.xml` file.

Enhancements to Address Code Lookup Mode for South Korea

Effective in version 5.12.0, Address Verification returns all of the current addresses at a property that an older address represents. The older address might represent a single current address or it might represent multiple addresses, for example if multiple residences occupy the site of the property.

To return the current addresses, first find the address ID for the older property. When you submit the address ID with the final character A in address code lookup mode, Address Verification returns all current addresses that match the address ID.

Note: Address Verification uses the `MaxResultCount` parameter to determine the maximum number of addresses to return for the address ID that you enter. The `CountOverflow` parameter indicates whether the database contains additional addresses for the address ID.

Spain

Effective in version 5.12.0, Informatica Address Verification improves the parsing and validation of Spain addresses based on customer feedback.

Taiwan

Effective in version 5.12.0, Informatica Address Verification improves the parsing and validation of Taiwan addresses based on customer feedback.

Thailand

Informatica Address Verification introduces the following features and enhancements for Thailand:

Improvements to Thailand Addresses

Effective in version 5.12.0, Informatica Address Verification improves the parsing and validation of Thailand addresses in a Latin script.

Additionally, Address Verification validates an address to house number level.

Native Support for Thailand Addresses

Effective in version 5.12.0, Informatica Address Verification can read and write Thailand addresses in native Thai and Latin scripts. Informatica updates the reference data for Thailand and adds reference data in the native Thai script.

Informatica provides separate reference databases for Thailand addresses in each script. To verify addresses in the native Thai script, install the native Thai databases. To verify addresses in a Latin script, install the Latin databases.

Note: If you verify Thailand addresses, do not install both database types. Accept the default `PreferredScript` attribute of the `Result` element in `Parameters.xml`. The default value on the attribute is `DATABASE`.

United Arab Emirates

Effective in version 5.12.0, Informatica Address Verification introduces the following improvements for the United Arab Emirates address:

- Address Verification improves the processing of United Arab Emirates addresses in interactive mode.
- Address Verification verifies street names in United Arab Emirates addresses. To verify street names in United Arab Emirates, install the latest reference address databases for the United Arab Emirates.

United Kingdom

Effective in version 5.12.0, Informatica Address Verification can return a territory name in a United Kingdom address in a Country address element.

Address Verification returns the territory name in the Country_2 element. Address Verification returns the country name in the Country_1 element. You can configure an output address with both elements, or you can omit the Country_1 element if you post mail within the United Kingdom. The territory name appears above the postcode in a United Kingdom address on an envelope or label.

Address Verification returns Country_1 and Country_2 data in fielded or partially-fielded output.

To return the territory name, install the current United Kingdom reference data.

The following address demonstrates the envelope or label format for the United Kingdom:

```
BARCLAYS BANK FLAT  
6-8 HIGH STREET  
ST. PETER PORT  
GUERNSEY  
GY1 2LB
```

United States

Effective in version 5.12.0, Informatica Address Verification can recognize up to three sub-building levels in a United States address.

In compliance with the United States Postal Service requirements, Address Verification matches the information in a single sub-building element with the reference data. If the Sub-building_1 information does not match, Address Verification compares the Sub-building_2 information. If the Sub-building_2 information does not match, Address Verification compares the Sub-building_3 information. Address Verification copies the unmatched sub-building information from the input address to the output address.

Address Verification returns each level of sub-building information in a discrete output field. Address Verification continues to support two levels of sub-building information in formatted address line, delivery address line, and complete address output.

Austria, Germany, and Switzerland

Effective in version 5.12.0, Informatica Address Verification supports the uppercase character **ß** in Austria, Germany, and Switzerland addresses.

Address Verification supports the character **ß** in the following ways:

- If you set the `Casing` attribute to `UPPER`, Address Verification returns the German character **ß** as **ß**. If you set the `Casing` attribute to `LOWER`, Address Verification returns the German character **ß** as **ß**.
- Address Verification treats **ß** and **SS** as equally valid characters in an address. In reference data matches, Address Verification can identify a perfect match when the same values contain either **ß** or **SS**.
- Address Verification treats **ß** and **ss** as equally valid characters in an address. In reference data matches, Address Verification can identify a standardized match when the same values contain either **ß** or **ss**.

- If you set the `PreferredScript` attribute to `ASCII_SIMPLIFIED`, Address Verification returns the character `ß` as `S`.
- If you set the `PreferredScript` attribute to `ASCII_EXTENDED`, Address Verification returns the character `ß` as `SS`.

Fixed Issues in Version 5.12.0

The following table describes customer-reported issues that are fixed in version 5.12.0:

Country	CR Number	Description
All countries	HDS-2161	When you call the address verification engine in a web service, a parsing error might cause the engine to become unresponsive.
Argentina	HDS-2342	Address Verification parses all information on the first delivery line of an input address as street information.
Austria	HDS-718	Address Verification might return an <code>Ix</code> status for an address that perfectly matches a single address in the reference data. The issue arises when the address includes <code>BLOCK</code> as a sub-building descriptor.
Canada	HDS-3123	Address Verification returns an <code>Ix</code> score for an address when the organization name in the address partially matches the organization name in the reference data, when other address details are correct, and when the post code is a perfect match.
Canada	HDS-3050	Address Verification rejects an address in Certified mode when it can parse a street descriptor and a building descriptor from both delivery address line 1 and delivery address line 2.
Canada	HDS-2583	Address Verification prefers rural route information over general delivery information in an address that contains both general delivery and rural route information.
Canada	HDS-2574	When you verify an address with two delivery address lines and either line contains non-postal or redundant data, Address Verification might delete the data from the output address. The issue arises when you verify the address in certified mode.
Canada	HDS-2327	If an address includes a comma between the house number and the street information, Address Verification might duplicate the street information on the first and second lines in delivery address line output.
China	HDS-2805	The Address Verification engine might stop unexpectedly if you submit an address with a very long street name and you set the <code>MatchingScope</code> attribute to <code>LOCALITY_LEVEL</code> .
Colombia	HDS-3025	When an address includes a hyphen between a house number and a dependent street number, Address Verification retains the hyphen in the parsed address and cannot match the address to the reference data.
Colombia	HDS-3024	Address Verification returns different validation results for an address that uses <code>NO</code> and <code>#</code> as house number descriptors.
Germany	HDS-1723	Address Verification might fail to parse a contact name to a Contact address element in fully-fielded output.

Country	CR Number	Description
Japan	HDS-2686	Informatica Address Verification implements multiple parsing and validation improvements for addresses in Japan.
Japan	HDS-2432	Address Verification might correct Locality_3 information even though the reference data contains a perfect match for the Locality_3 information in the input address.
Japan	HDS-2431	Address Verification might validate a historical address against the current version of the address in the reference data when the MatchingExtendedArchive attribute to ON.
Japan	HDS-2333	Address Verification does not recognize one or more non-traditional but widely-used Kanji characters.
South Korea	HDS-3217	Address Verification does not remove the locality suffix from the Locality Name element when you set the PreferredScript attribute to LATIN or ASCII and you set the PreferredLanguage attribute to ENGLISH.
South Korea	HDS-2802	Address Verification can match an input address to a historical version of the address in the reference data when the MatchingExtendedArchive attribute value is OFF.
South Korea	HDS-2568	Address Verification parses both ANSAN-SI and DANWON-GU to Locality_1 fields and not to Locality_1 and Locality_2 fields respectively.
South Korea	HDS-2113	Address Verification fails to find a reference data match for a South Korea address in the older, land lot-based format if the address omits a postcode.
Spain	HDS-222	Address Verification parses the term BUZON as street information and not as delivery service information when it appears in a delivery address line in the input address.
Sweden	HDS-1305	Address Verification returns a Vx status and a single address and not an lx status when an input address can match two addresses in the reference data with an equal number of corrections. The issue arises when there are multiple reference data matches for post code and locality information.
Taiwan	HDS-2363	When an address includes a hyphenated house number, Address Verification parses the digits before the hyphen as street element information.
Taiwan	HDS-2232	The Taiwan reference data includes two variations on a single address. Address Verification can return both addresses when you validate the address in interactive mode.
Taiwan	HDS-1806	Address Verification does not recognize three-digit post codes in Taiwan.
United Arab Emirates	HDS-2341	When an address contains street information and post office box information, Address Verification drops the post office box information if it finds a close match to the street information in the reference data.
United Kingdom	HDS-794	When you enter a valid post code in interactive mode, Address Verification might not return all of the addresses from the reference data. When you Increase the MaxResultCount value, Address Verification might return fewer addresses.
United States	HDS-2755	Address Verification parses the descriptor SPACE as building information and not as sub-building information.

Country	CR Number	Description
United States	HDS-2729	Address Verification might fail to match an input address with the reference data when the following conditions are true: <ul style="list-style-type: none"> - The street information contains the full version of a street descriptor, such as BOULEVARD. - Address Verification standardizes values in the street name, such as directional indicators.
United States	HDS-2727	Address Verification fails to recognize a non-standard directional value such as SO.
United States	HDS-2726	Address Verification might fail to match a valid input address with the reference data when the input street name contains a minor spelling error and omits a character space.
United States	HDS-2725	Address Verification fails to verify an address when the following conditions are true: <ul style="list-style-type: none"> - The directional information is incomplete. For example, the input indicator is S and the complete indicator is SW. - The directional indicator is in the wrong position. For example, the directional indicator precedes the street name in the input address and follows the street name in the reference data.
United States	HDS-2675	Address Verification can fail to match a street name with the corresponding street alias in the reference data. The issue arises when the position of the directional indicator differs between the input street information and the street alias.
United States	HDS-2595	If an input address includes a character space between the digits in the house number, Address Verification might correct the house number to a number that is not valid.
United States	HDS-2484	Address Verification might fail to preserve the street alias information in an address when you set the AliasStreet attribute value to PRESERVE.
United States	HDS-2335	Address Verification might update an input street name with the incorrect name from the database if all other data in the address matches a record with the incorrect name in the database.
United States	HDS-2096	Address Verification might parse the street pre-descriptor value to the house number prior to validation when the value is a single character, such as L for LOWER.
United States	HDS-1952	When Address Verification validates an address with a hyphenated house number, it might move the second part of the house number to a sub-building element.
United States	HDS-1783	Address Verification fails to match an address with the reference data when the street name is also a directional value and when the address omits the street descriptor. For example, the input address contains the following delivery address line: 337 SOUTH EAST
United States	HDS-1728	If you set the geocoding level to Arrival Point and you set the GlobalPreferredDescriptor attribute to LONG, Address Verification returns interpolated geocodes.

Country	CR Number	Description
United States	HDS-1724	When an input address contains two sub-building values on a second delivery address line or formatted address line, Address Verification parses the information on the first delivery address line or formatted address line as residue.
United States	HDS-1706	Address Verification fails to match an input street to the street alias in the reference data if the street name is standardized to correct an apparent spelling error.
United States	HDS-1701	Address Verification fails to parse an input address data correctly when the street information is split across two delivery address lines and the second line is longer than 25 characters or four words.
United States	HDS-1700	Address Verification fails to parse a sub-building value correctly when the following conditions are true: <ul style="list-style-type: none"> - The value is the single item on a delivery address line. - The value does not is not accompanied by a sub-building descriptor.
United States	HDS-1696	Address Verification might not recognize slight variations in an alias street name.
United States	HDS-1695	When an input address combines organization information and sub-building information in a delivery address line, Address Verification parses both information types to a single organization element.
United States	HDS-1677	Address Verification does not parse the building information correctly when an input address includes the information in a delivery address line or formatted address line.
United States	HDS-1676	Address Verification might consider a numeric number as a candidate value in a range of alphanumeric house number values on a given street.
United States	HDS-1675	Address Verification does not recognize PARTKWAY as a misspelling of the street descriptor PARKWAY.
United States	HDS-1673	Address Verification returns street information on formatted address line 1 and post office box information on formatted line 2, which is the opposite of the order that the USPS requires.
United States	HDS-1651	Address Verification parses a sub-building identifier and sub-building descriptor to residue when the sub-building identifier is a single character. For example, Address Verification parses A BLDG to a residue field.
United States	HDS-1616	Address Verification fails to identify ACU as a sub-building descriptor.
United States	HDS-1615	Address Verification fails to identify CONDO as a sub-building descriptor.
United States	HDS-1581	Address Verification incorrectly parses DOOR as a sub-building descriptor when the value is preceded by a house number.