



# Address Verification 5.16.2 Release Notes (On-Premises) September 2021

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Read the release notes to learn important information about installation, new features, changed features, and fixed limitations in Informatica Address Verification (On-Premises) 5.16.2.

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.

You must install a Java Development Kit on the machine that hosts the Address Verification engine.

If you install Address Verification on an AIX machine, install IBM Java 8 or later. If you install Address Verification on a Solaris machine, install Oracle Java SE 8 or later. If you install on other platforms, install OpenJDK version 8.

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

Operating System	Processor Architecture
Windows Server 2019	x64 (64-bit)
Windows Server 2016	x64 (64-bit)
SUSE Linux Enterprise Server 15	x64 (64-bit)
SUSE Linux Enterprise Server 12	x64 (64-bit)
RedHat Enterprise Linux 8	x64 (64-bit)
RedHat Enterprise Linux 7	x64 (64-bit)
AIX 7	x64 (64-bit)

## 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 5.16.2

## New Features and Enhancements (Version 5.16.2)

This section lists the new features and enhancements to Informatica Address Verification in version 5.16.2.

### Viet Nam

Effective in version 5.16.2, Informatica Address Verification recognizes Viet Nam as the International Organization for Standardization (ISO) name for the country in the English language. Address Verification recognizes both Vietnam and Viet Nam in an input address. Address Verification returns Viet Nam as the English-language name in an output address.

Previously, Address Verification recognized Vietnam and returned Vietnam as the country name in the English language.

## Fixed Issues in Version 5.16.2

The following table describes customer-reported issues that are fixed in version 5.16.2:

Country	CR Number	Description
HDS-16876	China	Address Verification can downgrade the Element Input Status value for a Locality 1 element when the input address does not contain Shi after the locality name.
HDS-13070	Germany	Address Verification fails to recognize 'post nummer' as a variant of 'postnummer' and can parse a 'post nummer' value to a building field.
HDS-16468	Greece	Address Verification can add the tonos (') character to an alphabetic character in an output address when you set the PreferredScript attribute to LATIN-1.
HDS-15591	India	Address Verification does not recognize Marg as a post-descriptor for a street name.
HDS-15579	India	Address Verification can parse a building name as an organization name in the following scenario: <ul style="list-style-type: none"><li>- The building name is an abbreviation, for example D D A.</li><li>- The input address contains the building name on a formatted address line.</li></ul>
HDS-14817	India	Address Verification can drop input detail from a delivery address line in an address. The issue arises in addresses that contains multiple building and sub-building values.
HDS-14576	India	The address verification engine can run out of memory in the following scenario: <ul style="list-style-type: none"><li>- You set the Format Delimiter to Comma.</li><li>- The address record duplicates street and locality information on two delivery address lines.</li></ul>
HDS-14843	Korea	Address Verification can drop input detail from an address when you set the PreferredScript attribute to LATIN and you set the PreferredLanguage attribute to ENGLISH.

Country	CR Number	Description
HDS-16147	Mauritius	Address Verification can parse post code values to a building field.
HDS-16146	Nicaragua	Address Verification can drop post code information from the country-specific locality line field of an address.
HDS-16209	Nigeria, Syria, Zambia	Address Verification can standardize the country names Nigeria Republic, Zambia Republic, and Syria Republic to Serbia.
HDS-15158	Portugal	When an address contains LOTE as a house number descriptor, Address Verification fails to parse the house number information to a house number field and instead parses the information to a building field.
HDS-13972	Portugal	Address Verification fails to recognize N <sup>o</sup> as a an abbreviation of Número and fails to recognize DT as an abbreviation of Direito when DT does not follow a house number. Address Verification returns a low mailability score for an address that uses the abbreviations in such cases.
HDS-15839	South Korea	Address Verification can drop sub-building information from an address when you set the MatchingScope value to ALL.
HDS-15838	South Korea	Address Verification can drop HO and DONG information from an address when you select a Latin preferred script.
HDS-16607	Spain	If an input address contains both ordinals and sub-unit descriptors, such as Planta and Piso (°), in a delivery address line, Address Verification can parse the delivery address line information to a street field and return an Ix status score.
HDS-14191	Spain	In batch mode, Address Verification can return an Ix status score for an address that Address Verification earlier suggested in interactive mode.
HDS-16150	St. Kitts and Nevis	Address Verification can parse post code and locality values to incorrect fields.
HDS-14347	United Kingdom	Address Verification can copy an incorrect house number from input to output in fast completion mode when multiple correct alternatives exist in the database.
HDS-16947	United States	If an input address contains additional values after the sub-building information on Delivery Address Line 1, Address Verification can remove the sub-building information and all subsequent values from the address line.
HDS-16862	United States	Address Verification fails to correct an address that contains two different streets on delivery address lines 1 and 2 and instead returns an Ix score for the address.
HDS-15776	United States	Address Verification may return the wrong street name for a United States address when you include an extraneous street identifier in the input.
HDS-14575	United States	In certified mode, Address Verification can duplicate a sub-building number in the delivery address line output. The issue is observed when you set the StandardizeInvalidAddresses attribute to ON.

Country	CR Number	Description
HDS-14563	United States	Address Verification drops sub-building 2 information from a United States address in the following scenario: <ul style="list-style-type: none"> <li>- The address includes sub-building 1 and sub-building 2 information on the second address line.</li> <li>- The house number ends in an alphabetic character.</li> </ul>
HDS-14561	United States	If you verify a United States address that contains valid sub-building 1 and sub-building 2 values, Address Verification might return the same sub-building descriptor for each value. The issue arises when both values are within the valid range for one of the sub-building descriptors.

## Informatica Address Verification Version 5.16.1

### New Features and Enhancements (Version 5.16.1)

This section lists the new features and enhancements to Informatica Address Verification in version 5.16.1.

#### Australia

The following new features in Informatica Address Verification 5.16.1 apply to Australia.

##### AMAS Certification

Effective in version 5.16.1, Informatica Address Verification is certified to the Address Management Approval System (AMAS) Cycle 2021 standard for address verification in Australia.

##### Optimization Level Updates

Effective in version 5.16.1, Informatica Address Verification enables WIDE optimization when you verify Australia data in certified mode.

Previously, Informatica Address Verification disabled WIDE optimization in this scenario. When you selected WIDE optimization in an earlier release and you verified Australia data in certified mode, Informatica Address Verification applied the criteria defined by STANDARD optimization.

**Note:** The AMAS certification standard does not support addresses that you verify with the WIDE optimization level. You can set the optimization level in certified mode to evaluate the effect of the level on your data. If you plan to submit an address set to the Australian postal service as certified to the AMAS standard, use a STANDARD optimization level.

## Fixed Issues in Version 5.16.1

The following table describes customer-reported issues that are fixed in version 5.16.1:

Country	CR Number	Description
Australia	HDS-14190	<p>Address Verification can split an alphanumeric sub-building value and write the new values to house number and street fields respectively.</p> <p>The issue is observed in the following scenario:</p> <ul style="list-style-type: none"> <li>- The number and letter in the sub-building value are separated by a character space.</li> <li>- You call the address verification engine in a web service from Informatica Data Quality.</li> <li>- You process the address in parse mode.</li> </ul>
Australia	HDS-14020	<p>Address Verification can parse the string NORTHERN as a province name.</p> <p>The issue is observed when you call the address verification engine in a web service from Informatica Data Quality.</p>
Australia	HDS-14018	<p>Address Verification can assign different DPID values to the same address when you add or remove Locality 2 information.</p> <p>The issue is observed when you call the address verification engine in a web service from Informatica Data Quality.</p>
Australia	HDS-13752	<p>If you validate an address that contains multiple sub-buildings and you omit the sub-building information, Address Verification can return a single sub-building with the address rather than an Ix score.</p> <p>The issue is observed in the following scenario:</p> <ul style="list-style-type: none"> <li>- You call the address verification engine in a web service from Informatica Data Quality.</li> <li>- You verify the address in certified mode.</li> </ul>
Australia	HDS-13722, HDS-13066	<p>Address Verification can change the locality information in an address rather than correct the house number or invalidate the address.</p> <p>The issue is observed in the following scenario:</p> <ul style="list-style-type: none"> <li>- The input address includes a single house number value, for example 301 GEORGE ST, SYDNEY.</li> <li>- The reference address specifies a numerical range as a house number, for example 289-307 GEORGE ST, SYDNEY.</li> <li>- You call the address verification engine in a web service from Informatica Data Quality.</li> </ul>
Australia	HDS-13605	<p>Address Verification appends the directional abbreviation S to a street name when the reference data contains the same address with a North and South directional abbreviation. The issue is observed in batch mode.</p>
Australia	HDS-13580	<p>Address Verification validates an address that contains the street name BOX as a Post Office Box address.</p> <p>The issue is observed in the following scenario:</p> <ul style="list-style-type: none"> <li>- The street name BOX is not accompanied by a street descriptor.</li> <li>- You call the address verification engine in a web service from Informatica Data Quality.</li> </ul>

Country	CR Number	Description
Australia	HDS-13275	In certified mode, Address Verification fails to account for a redundant UNIT sub-building identifier and can return different GNAF ID and Delivery Point ID values for the same address with and without the identifier. The issue is observed when one of the input addresses contains a UNIT sub-building identifier without a corresponding sub-building value.
Australia	HDS-13272, HDS-13273	In certified mode, Address Verification returns GNAF ID and Delivery Point ID values in an inconsistent manner for addresses that identify the same delivery point in marginally different ways. You can observe the following issues in the address output: <ul style="list-style-type: none"> <li>- Address Verification returns the same GNAF ID value and different Delivery Point ID values for each address.</li> <li>- Address Verification returns the same Delivery Point ID value and different GNAF ID values for each address.</li> </ul>
Australia	HDS-13240	In certified mode, Address Verification fails to parse street post descriptor and street post directional information in the street element. The issue is observed in the following scenario: <ul style="list-style-type: none"> <li>- You call the address verification engine in a web service from Informatica Data Quality.</li> <li>- You submit the address call in discrete input fields.</li> </ul>
Australia	HDS-13239	In certified mode, Address Verification can return the street name in the delivery service descriptor field and the house number in the delivery service number field. The issue is observed in the following scenario: <ul style="list-style-type: none"> <li>- The street name can be interpreted as a delivery service term, for example COLLECTOR RD.</li> <li>- You call the address verification engine in a web service from Informatica Data Quality.</li> <li>- You submit the address call in discrete input fields.</li> </ul>
Australia	HDS-13067	Address Verification can fail to expand the house number ranges for an address and can return an incorrect Address Resolution Code value. The issue is observed in the following scenario: <ul style="list-style-type: none"> <li>- You call the address verification engine in a web service from Informatica Data Quality.</li> <li>- You verify the address in certified mode.</li> </ul>
Australia	HDS-13006	Address Verification appends the directional abbreviation N or S to a street name when the reference data contains the same address with a North and South directional abbreviation. The issue is observed in the following scenario: <ul style="list-style-type: none"> <li>- You call the address verification engine in a web service from Informatica Data Quality.</li> <li>- You verify the address in certified mode.</li> </ul>
Australia	HDS-13000	Address Verification returns an S4 process status for an address that includes "L G" as a sub-building identifier.
Australia	HDS-12956	In certified mode, Address Verification can return a higher process status code and an over-confident mailability score for addresses with missing house number information.
Australia	HDS-12955	In certified mode, Address Verification can return an incorrect Address Resolution Code value for an address that contains an incorrect house number.

Country	CR Number	Description
Australia	HDS-12803	When an input address includes a dash symbol between a sub-building number and a house number on Delivery Address Line 1, Address Verification can return both the sub-building number and the house number to a house number field. The issue arises when you verify the address in interactive mode.
Australia	HDS-12255	In certified mode, Address Verification drops Lot number information from Delivery Address Line 1 and does not return the information as residue when the lot number information is incorrect.
Australia	HDS-12163, HDS-12020	Address Verification fails to return the enrichment values for an input address that contains a range-based house number. The issue can arise if the house number range in the GNAF reference data differs from the house number range in the postal reference data.
Australia	HDS-11788	Address Verification may return only the GNAF ID value as an enrichment for an Australia address.
Australia	HDS-11131	Address Verification can parse sub-building information to a house number field and can parse the house number with the street name to the street field. The issue arises when the sub-building information precedes the house number on an input address line.
Australia	HDS-11043	In batch mode, Address Verification may make an incorrect adjustment to a post office box address. For example, Address Verification may change PO to GPO as the post office box identifier.
Austria	HDS-13234	Address Verification fails to recognize St. as the sub-building descriptor "Stiege" in an address line and parses the information incorrectly. The issue is observed when the address contains concatenated Sub-building 1 and Sub-building 2 data.
Brazil	HDS-12571	Address Verification parses sub-building information incorrectly if you enter the information on its own on the second address line.
British Indian Ocean Territory	HDS-10006	Address Verification returns the postal code as a single string rather than with a character space between the fourth and fifth characters in the code.
Canada	HDS-13375	When you call the address verification engine in a web service from Informatica Data Quality, the engine might stop unexpectedly. The issue can arise in the following scenario: <ul style="list-style-type: none"> <li>- You verify an address in interactive mode.</li> <li>- You set the OptimizationLevel attribute to WIDE.</li> <li>- You set the MaxResultCount attribute to 1.</li> </ul>
Canada	HDS-12093	When you call the address verification engine in a web service from Informatica Data Quality, the engine might stop unexpectedly. The issue arises in the following scenario: <ul style="list-style-type: none"> <li>- The address includes digits on multiple delivery address lines.</li> <li>- You include postal code information in the address.</li> </ul>
Canada	HDS-11208	Address Verification can return a locality name without an expected dash symbol in certified mode. For example, Address Verification returns the locality SAINT-LAZARE in batch mode and returns the locality SAINT LAZARE for the same address in certified mode.



Country	CR Number	Description
Denmark	HDS-12143	Address Verification can split the digits of a house number that includes a dash symbol into House Number and Sub-Building fields.
Hungary	HDS-31	Address Verification may fail to validate an address because the reference data does not contain the full range of house numbers for the street.
India	HDS-10720	Address Verification can return an Ix status score for an address in the following scenario: <ul style="list-style-type: none"> <li>- The address identifies a business in an industrial estate.</li> <li>- The industrial estate name includes an organization abbreviation.</li> </ul>
India	HDS-4835	Address Verification fails to return BENGALURU as the preferred version of BANGALORE.
India	HDS-45	Address Verification can return a redundant apostrophe after the digit in an ordinal street name, for example, 4'TH CROSS ROAD.
Ireland	HDS-11867	The Address Verification engine might stop unexpectedly when you verify an address with the following characteristics: <ul style="list-style-type: none"> <li>- The address includes the T/A or "Trading As" abbreviation in a delivery address line field.</li> <li>- The address does not use street information.</li> <li>- The province information is incorrect.</li> </ul>
Ireland	HDS-11780	Address Verification might fail to recognize a slash character as a separator in a building number range when you enter the building and street information in the Street 2 element.
Italy	HDS-10505	When the reference data contains two equally valid candidates for an incorrect input address, Address Verification might return one of the candidates instead of returning an Ix score for the input address. The issue arises when the input address contains an incorrect street name but is otherwise valid.
Kosovo	HDS-11991	Address Verification fails to recognize XK and RKS as two-letter and three-letter country codes.
North Macedonia	HDS-12912	Address Verification fails to recognize the country name "North Macedonia."
Slovakia	HDS-8175	Address Verification can fail to validate an address that contains accented characters if you enter the address data with the unaccented versions of the characters. For example, Address Verification does not recognize "Zizkova" as an alternative version of "Žižkova." The issue is also observed in other countries that use accented Latin-2 characters to record an address.
Spain	HDS-13358	Address Verification can return an input address twice in a address suggestion list. Address Verification can also return an Ix status score and not a Cx score for the address.
Spain	HDS-12438	Address Verification can return an Ix status code for a valid address. The issue arises when near-duplicate addresses exist in the reference data.
Taiwan	HDS-12779	Address Verification does not return street information in delivery address line fields if you use a non-default preferred script.

Country	CR Number	Description
United Kingdom	HDS-14268, HDS-13355	Address Verification can fail to return the enrichment values for an input address when one or more conditions are true. The conditions include the appearance of a sub-building number and sub-building descriptor in reverse order, such as "14 FLAT", and the presence of an extraneous house number on the apartment building.
United Kingdom	HDS-13617, HDS-13286	Address Verification can return the same Unique Property Reference Number for more than one address.
United Kingdom	HDS-13353	Address Verification returns business terms such as BARBER in UPRN and UDPRN fields for a small number of addresses.
United Kingdom	HDS-10832	Address Verification can return a dash symbol indicating the East/West direction on the wrong side of the decimal point in a longitude coordinate. The issue is observed when the integer to the left of the decimal point is 0, for example 0.-57020.
United Kingdom	HDS-8837, HDS-8836	Address Verification can populate an address line exclusively with a house number, rather than include the house number and locality 2 information on the same line, in a rural address that does not use street information.
United States	HDS-14142	Address Verification fails to parse street and building information correctly in the following scenario: <ul style="list-style-type: none"> <li>- Delivery Address Line 1 contains the street information.</li> <li>- Delivery Address Line 2 contains a mix of building and sub-building information.</li> <li>- Delivery Address Line 2 begins with a number.</li> </ul>
United States	HDS-12965	Address Verification may fail to parse the first line of an address correctly in the following scenario: <ul style="list-style-type: none"> <li>- The valid address does not contain a street name.</li> <li>- The first address line identifies an organization.</li> </ul>
United States	HDS-12737	Address Verification can downgrade the match between an input address and a reference address when the input contains an incomplete street name that is a substantial subset of the full street name.
United States	HDS-12736	Address Verification fails to match an input address with an address in the reference data when the input contains a redundant street descriptor in a delivery address line.
United States	HDS-12530	Address Verification can take longer than expected to return results when you set the Optimization Level to WIDE.
United States	HDS-12462	Address Verification can drop the sub-building information from an input address in the following scenario: <ul style="list-style-type: none"> <li>- The sub-building identifier is concatenated with the sub-building value.</li> <li>- The sub-building information appears in a single delimited field in the input address.</li> </ul>
United States	HDS-12431	Address Verification can return a Cx status value and change the ZIP Code of a valid address in the following scenario: <ul style="list-style-type: none"> <li>- You set the matching scope to street level.</li> <li>- The reference data contains a perfect match for the input address including the house number in another ZIP Code.</li> </ul>

Country	CR Number	Description
United States	HDS-12356	Address Verification returns an Ix status for an otherwise valid address that contains a redundant dash symbol between individual digits in the house number.
United States	HDS-11873	When Address evaluates two candidate matches for an input address, it may correct the ZIP Code in the address rather than add a street directional value and retain the current ZIP Code.
United States	HDS-11849	Address Verification returns an Ix status for an otherwise valid address that begins with a PMB abbreviation.
United States	HDS-11782	Address Verification fails to recognize ST as an alternative form of SAINT in street names in the following scenario: <ul style="list-style-type: none"> <li>- ST is concatenated to the value that follows it in the street name, for example STJOHN ST and STJOSEPH AVE.</li> </ul>
United States	HDS-11646	Address Verification can validate an address with a Cx score instead of an Ix score when extraneous alphabetical characters are concatenated to the house number.
United States	HDS-11380	In certified mode, Address Verification downgrades the status to C3 for a valid address with a ten-character house number.
United States	HDS-10541	When an input address contains a character space between the characters in an alphanumeric sub-building number, Address Verification moves the first number to residue and returns the remaining characters in the sub-building field with # as a sub-building indicator. The issue arises in the following scenario: <ul style="list-style-type: none"> <li>- The input address does not include a sub-building identifier.</li> <li>- The sub-building information appears on a separate delivery address line to the other information in the address.</li> </ul>

## Informatica Global Customer Support

You can contact a Global Support Center by telephone or through the Informatica Network.

To find your local Informatica Global Customer Support telephone number, visit the Informatica website at the following link:

<https://www.informatica.com/services-and-training/customer-success-services/contact-us.html>.

To find online support resources on the Informatica Network, visit <https://network.informatica.com> and select the eSupport option.