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**The following is a summary of the changes included in this release:**

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**This file contains the following information:**

<b>Win</b>	Information for ZIPFOURce Windows
<b>LX</b>	Information for ZIPFOURce Linux
	Enhancement

**Version 02.20.01.06 incorporates the following enhancements/corrections:****General**

<b>Win</b>	This release contains no significant changes.
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**Version 02.20.01.05 incorporates the following enhancements/corrections:****Encoding**

<b>Win</b>	When Alternate Address line 2 was populated, the encoded Delivery Address was sometimes overwritten with Alternate Address Line 2 data. (ZF-858)
<b>Win</b>	Internal Routing PO Box information did not appear in the delivery address for unique Zip Codes. (ZF-858)
<b>Win</b>	In cases when there was a Suite <sup>Link</sup> match, the firm name was duplicated across Company field and Alternate Address 1. (ZF-858)
<b>Win/LX</b>	MTN was not recognized as Mountain in an address and the mail piece could not be delivered. (ZF-853/ZF-858)
<b>Win/LX</b>	When a decimal was part of the primary number the address did not match correctly. (ZF-853/ZF-858)
<b>Win</b>	Some addresses with a high-rise default match resulted in the secondary address designator being duplicated. (ZF-858)
<b>Win/LX</b>	Preserved military addresses input as CMR when the USPS data was not updated to CPR. (ZF-853/ZF-858)
<b>Win/LX</b>	DPV Confirmed addresses were invalid because the HWY O input was being changed to HWY W. (ZF-853/ZF-858)
<b>Win/LX</b>	The Internal Box number was dropped on mailings with unique Zip Codes. (ZF-853/ZF-858)
<b>Win</b>	When Secondary Information was entered as the Alternate Address Line input, the Secondary Information appeared before the Primary Number in the resulting address. (ZF-858)
<b>Win</b>	When the Delivery Address and the Alternate Address fields contained duplicated information, the duplicated information was removed, and the extraneous information was returned to the Alternate Address line. (ZF-858)
<b>Win</b>	Corrected an issue where applications built using the .NET DLL returned an incorrect value for DPV No Stat Reason Code for records that are not DPV No Stat. (ZF-771)

**Version 02.20.01.04 incorporates the following enhancements/corrections:****General**

<b>Win</b>	The Alternate Address field was blank in the output even though Swap address lines was false and multiple lines were populated (ZF-775).
<b>Win</b>	The Delivery Address information was missing on output when there was multiple line input and Swap address lines or Standardize delivery address were false. (ZF-782)
<b>Win</b>	PMB information was not being returned back to the delivery address after address correction was performed. (ZF-803)

**Version 02.20.01.03 incorporates the following enhancements/corrections:****General**

<b>Win/LX</b>	The option to enable or disable 5-Digit ZIP Validation has been removed and is now enabled automatically. Samples have been updated accordingly. (ZF-718)
<b>Win</b>	After installing the new CASS Cycle O data, the EWS date displayed the old EWS.txt file date when it should've displayed the new EWS.cas file date. (ZF-703)
<b>Win/LX</b>	Records that were supposed to receive a Return Code 21 were receiving a Return Code 17. (ZF-743)
<b>Win</b>	The Postal Finance Number was not returned for some addresses. (ZF-744)
<b>Win/LX</b>	Some records had a missing city name in the output. (ZF-745)
<b>LX</b>	Geo fields for Latitude and Longitude have been added for Linux customers. The zfsingle sample program has been updated to show these fields. Support for these fields in the zfbatch sample program has not been provided at this point. (ZF-754)

**Version 02.20.01.02 incorporates the following enhancements/corrections:****General**

<b>Win</b>	This release contains no significant changes.
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**Version 02.20.01.01 incorporates the following enhancements/corrections:****General**

<b>LX</b>	The ZIPFOURce for Linux library/application has been upgraded to 64-bit. Distribution of the 32-bit library/application has been discontinued.
<b>LX</b>	The sample application named zfctaix has been renamed to zfsingle. The Linux library file libZIPFOURce.a.2.19 has been changed to a shared object named libZIPFOURce.2.20.so.
<b>LX</b>	Two separate sets of binaries have been included, to use depending on your RedHat distribution version under the 64Bit folder. If you use RedHat version 7, please use RHEL7 folder. If you use RedHat 8, please use RHEL8 folder. (ZF-711)
<b>Win/LX</b>	<b>Support for USPS CASS Cycle O</b>

In preparation for the August 2023 CASS Cycle O implementation, new fields have been added in ZIPFOURce to support the USPS CASS Cycle O certification.

See the [BCC CASS Cycle O Overview](#) for more information on how ZIPFOURce supports the USPS CASS Cycle O certification.

Records that received Z4, Return Code 10 (Invalid Address) will now receive Z4, Return Code 17 (Insufficient Data) with this release.

### **Delivery Address Suite/Apartment Field (Windows only)**

The size of the Delivery Address Suite/Apartment field has been increased to 20 characters.

### **ZIPFOURce Installer (Windows only)**

The ZIPFOURce installer has been updated to install the Visual C++ 2015-2019 Redistributable(x86) if it is missing from the system.

### **ZIPFOURceDotNET.dll (Windows only)**

ZIPFOURceDotNET.dll has been removed, ZIPFOURceDotNET2.dll has been updated to support CASS O, and ZIPFOURceDotNET4.dll has been added with this release.

The new ZIPFOURceDotNET4.dll requires v4.7.2 framework. (ZF-719)

**NOTE:** With this release, our namespace changed in the .NET wrappers from BCC.ZIPFOURce to Bcc.ZIPFOURce. (ZF-720)

### **Zip+4 Footnotes**

The following Footnotes are not supported with this release:

- E, P, and T
- The + footnote for DPV Resolved Multiple Response

### **DPV Footnotes**

The size of the Z4, DPV -Footnotes field has been increased to 10 characters. You will have to update applications built upon ZIPFOURce API to allow the 10 character DPV Footnote field.

### **Updated Code Samples**

- C++
- Delphi (Windows only)

### **Other Code Samples**

Support for Visual Basic sample has been discontinued.

	<p><b>Geocoding</b></p> <p><b>IMPORTANT:</b> Geocoding data must be installed, or your encoder will not be activated.</p> <p>Addresses for Military and some US territories are not returning latitude and longitude information. For ZIPFOURce users.</p>
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**Version 02.19.75.14 incorporates the following enhancements/corrections:**

**General**

<b>Win</b>	This release contains no significant changes.
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**Version 02.19.75.13 incorporates the following enhancements/corrections:**

**General**

<b>Win</b>	This release contains no significant changes.
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**Version 02.19.75.12 incorporates the following enhancements/corrections:**

**General**

<b>Win</b>	Corrected an issue when incorrect number of days remaining was being returned after installing Feb CASS data. (ZF-645)
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**Version 02.19.75.11 incorporates the following enhancements/corrections:**

**General**

<b>Win</b>	Fixed an issue with ZIP+4 data days remaining for December data when the expiration month falls in February. (ZF-640)
<b>LX</b>	Fixed an issue where the sample program returned the incorrect number of days remaining for DPV Data and LACSLink data expiration. (ZF-641)
<b>LX</b>	Fixed an issue where the PS3553 form returned an incorrect date for 5-Digit Coded section. (ZF-642 )

**Version 02.19.75.10 incorporates the following enhancements/corrections:**

**General**

<b>Win LX</b>	<p>The PS-3553 - CASS report was updated to support OCT 2022 DMM Addressing Standard changes. These changes include:</p> <ul style="list-style-type: none"> <li>• Implementation of USPS AMS API version 03.17.08.N</li> <li>• Zip Code Accuracy Standards (date range of validation period for both 5-digit and ZIP+4)</li> <li>• Carrier Route Accuracy Standards (date range of validation period for CRRT mailings)</li> <li>• Format and dates listed in table Exhibit 9.3.1 USPS Database Product Cycle. And, listing of date of database product used on the PS-3553 report</li> <li>• Updated the days remaining calculation to comply with the new DMM rules for data expiration.</li> <li>• The footer on the PS3553 is now September 2022.</li> </ul> <p>For more information about these updates, refer to PB 22576. (ZF-570)</p>
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**Version 02.19.75.09 incorporates the following enhancements/corrections:**

**General**

<b>Win</b>	This release contains no significant changes.
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**Version 02.19.75.08 incorporates the following enhancements/corrections:**

**General**

<b>Win LX</b>	<p>Implemented USPS AMS API version 03.17.06.N (ZF-538). This includes the following fixes:</p> <ul style="list-style-type: none"> <li>• Corrected an issue where an error occurred while installing LACSLink data.</li> <li>• Corrected an issue where the leading "0" in the secondary address was not being recognized, resulting in a wrong match.</li> </ul>
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**Version 02.19.75.07 incorporates the following enhancements/corrections:**

**General**

<b>Win</b>	This release contains no significant changes.
<b>LX</b>	Corrected an issue where ZIPFOURce failed to work on Red Hat Enterprise Linux 7 operating system. (ZF-411)

**Version 02.19.75.06 incorporates the following enhancements/corrections:**

**General**

<b>Win</b>	ZIPFOURce now supports the Windows 11 and Windows Server 2022 operating system. (ZF-320) (ZF-321)
<b>LX</b>	Removed support for Red Hat Enterprise Linux 6 operating system. (ZF-304)
<b>Win LX</b>	Implemented AMS API Version 03.17.05.N (ZF-302). The following is changed: <u>Address corrections:</u> <ul style="list-style-type: none"> <li>Corrected an issue in which certain addresses without a hyphen in the primary number incorrectly matched to addresses with a hyphen in primary number.</li> <li>Corrected an issue in which addresses with no match (Return Code 21) were being returned with a different ZIP code compared to the input.</li> <li>Corrected an issue where addresses with non-ASCII characters caused a system ABEND of the AMS API.</li> <li>Corrected an issue in which a ZIP+4 match was not found when the input state didn't correspond to the city/ZIP Code.</li> <li>Corrected an issue for military addresses where an incorrect ZIP code was returned in the output compared to the one in the input.</li> <li>Improved address matching for records with a fraction value in the street name.</li> </ul> <u>New implementation:</u> Extended CASS Cycle N expiration date to July 31, 2023. The installer has been updated to use a single .dll/.so AMS API file.

**Version 02.19.75.05 incorporates the following enhancements/corrections:**

**General**

<b>Win</b>	This release contains no significant changes.
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**Version 02.19.75.04 incorporates the following enhancements/corrections:**

**General**

<b>Win</b>	This release contains no significant changes.
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**Version 02.19.75.03 incorporates the following enhancements/corrections:**

**General**

<b>Win</b>	Updated data files to the August 2021 AIS products.
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**Version 02.19.75.02 incorporates the following enhancements/corrections:**

**General**

<b>Win</b>	This release contains no significant changes.
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**Version 02.19.75.01 incorporates the following enhancements/corrections:**

**General**

<b>Win LX</b>	Implemented AMS API Version 03.17.00.N (ZF-248) (ZF-249). The following is changed:
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Address corrections:

- Corrected an issue in which a certain incorrectly formatted address caused the output "system ABEND" of the AMS API.
- Corrected an issue in which a certain address with an alpha-numeric primary was incorrectly matched to a high-rise record when a better match was available at the street level.
- Updated for state difference in ZIP+4 to City/State so an acceptable City/State is not kept when the state codes do not match.
- Corrected an issue in which an incorrect match was made due to recombination.
- Corrected an issue in which if the city name of the input address did not match exactly, it was possible the match resulted in an incorrect address.
- Corrected an issue in which if a suffix followed a unit designator, a previous suffix and the unit designator was included in the street name, resulting in no match.
- Corrected an issue in which if an address used a preferred city name that encompassed multiple ZIP Codes, it could match to the wrong address.
- Corrected an issue in which when doing an address lookup, there were cases where an AME Footnote "B" was erroneously returned.
- Corrected an issue in which there were 2 leading spaces in the returned last line when the return code is 22.
- Corrected an issue in which if the input address had an exceptional unit designator followed by a suffix, then the parsed primary name was missing.
- Corrected an issue in which if the PO BOX number was an alphanumeric that could be interpreted as a suffix, then the box number was dropped.
- Corrected an issue in which if the Firm name consisted of 1 word that was more than 40 characters long, then it could erroneously be matched to a firm record and the firm name would be dropped.

New implementation:

- Extended CASS Cycle N expiration date to July 31, 2022.

**Version 02.19.74.13 incorporates the following enhancements/corrections:****General**

<b>Win</b>	This release contains no significant changes.
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**Version 02.19.74.12 incorporates the following enhancements/corrections:****General**

<b>Win</b>	This release contains no significant changes.
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**Version 02.19.74.11 incorporates the following enhancements/corrections:****General**

<b>Win</b>	This release contains no significant changes.
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**Version 02.19.74.10 incorporates the following enhancements/corrections:****General**

<b>Win</b>	This release contains no significant changes.
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**Version 02.19.74.09 incorporates the following enhancements/corrections:****General**

<b>Win</b>	Corrected an issue in which secondary address information, such as an apartment number, on line 1 of an address was incorrectly matched to a street. (ZF-236)
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**Version 02.19.74.08 incorporates the following enhancements/corrections:****General**

<b>Win</b>	This release contains no significant changes.
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**Version 02.19.74.07 incorporates the following enhancements/corrections:****General**

<b>Win</b>	Updated the communication protocol that is used between BCC ZIPFOURce and downloads.bccsoftware.com for product downloads and web updates. The connection will use HTTPS TLS 1.2, which provides enhanced privacy and security using more secure hash algorithms and cipher suites. (ZF-228)
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**Version 02.19.74.06 incorporates the following enhancements/corrections:****General**

<b>Win LX</b>	<p>Implemented AMS API Version 03.12.00.N (ZF-214). The following is changed:</p> <p><u>Address corrections:</u></p> <ul style="list-style-type: none"> <li>When getting a Return Code of 22 (Multiple Responses), if all responses had the same ZIP Code or carrier routes, the information was not set properly.</li> <li>The secondary number was incorrectly moved to the miscellaneous line for certain addresses.</li> <li>The CMRA flag remained turned on for PBSA records.</li> <li>DPV return information changed due to collisions.</li> <li>ZIPMOVE records returned wrong AME footnotes.</li> </ul> <p><u>New implementation:</u></p> <ul style="list-style-type: none"> <li>Extended CASS Cycle N expiration date to July 31, 2021. (ZF-214)</li> </ul>
<b>Win</b>	Corrected an issue that prevented users from installing data because the zlib.dll was missing. (ZF-216)

**Version 02.19.74.05 incorporates the following enhancements/corrections:****General**

<b>LX</b>	<p>Made changes to update PS 3553 to:</p> <ul style="list-style-type: none"> <li>Remove all Direct DPV sections</li> <li>Update date in footer to September 2017</li> <li>Update the DMM reference from 708 to 602 at the top of the page and in the Mailer section.</li> </ul>
<b>Win</b>	This release contains no significant changes.

**Version 02.19.74.04 incorporates the following enhancements/corrections:**



**General**

<b>Win</b>	<p>Made changes to update PS 3553 to:</p> <ul style="list-style-type: none"> <li>• Remove all Direct DPV sections</li> <li>• Update date in footer to September 2017</li> <li>• Update the USPS website reference in the Privacy Notice statement</li> <li>• Update the DMM reference from 708 to 602 at the top of the page and in the Mailer section.</li> </ul>
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**Version 02.19.74.03 incorporates the following enhancements/corrections:**

**General**

<b>Win</b>	This release contains no significant changes.
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**Version 02.19.74.02 incorporates the following enhancements/corrections:**

**General**

<b>Win</b>	This release contains no significant changes.
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**Version 02.19.74.01 incorporates the following enhancements/corrections:**

**General**

<b>Win</b>	Implemented AMS API Version 03.08.00.N. Corrected an issue where incorrect LACS <sup>Link</sup> matches were made for certain PO Box addresses. (ZF-181)
<b>Win LX</b>	<p>Implemented AMS API Version 03.07.00.N. (ZF-176) The following is changed:</p> <p><u>Improvements:</u></p> <ul style="list-style-type: none"> <li>• Improved matching for Firm addresses.</li> <li>• Added support for matching abbreviated firm names.</li> <li>• Added support for unit designator keyword 'APTO' as an alternate for 'APT'.</li> <li>• Added support for 'EXPY' abbreviation for Expressway.</li> <li>• Improved out of range alias matching.</li> </ul> <p><u>Corrections:</u></p> <ul style="list-style-type: none"> <li>• The lane abbreviation 'LA' in the input was changed to 'LN' in output.</li> <li>• Input addresses with a period in the additional address lines caused the information to be dropped from output.</li> <li>• Input secondary or miscellaneous address information was lost when the input address was encoded.</li> <li>• Military addresses with alpha-numeric box numbers were not encoded.</li> <li>• Addresses containing county road numbers with post directional were not encoded.</li> <li>• Unit number was duplicated in primary and secondary address lines for military addresses.</li> <li>• DPV Footnote 'PB' was not populated correctly for multiple response addresses.</li> <li>• The API crashed when using lengthy primary address information in the input.</li> <li>• The API crashed when input address consisted of an excessive number of parsed words.</li> <li>• Periods in firm names were removed while encoding.</li> <li>• Addon information was returned for addresses that were not DPV confirmed</li> <li>• The zip5_valid field was incorrectly set to 'N' for valid ZIP codes.</li> </ul>

- Military addresses with box information before other address elements were not encoded.
- Military address keywords were being duplicated in multiple address lines.
- Addresses with invalid single coded city/state did not encode.
- The API failed to provide LACS<sup>Link</sup> matches when input address was not correctly formatted.
- Addresses with numeric street names and numeric suffixes separated by space did not encode.
- Some addresses incorrectly reported a street match instead of a high -rise match.
- PO box, rural route and highway contract address information with single trailing alpha received an incorrect match for DPV.
- The API failed to encode records with unit designator at the start of address.
- Addresses with no space between the pound sign and the secondary number did not encode.
- The API failed to match the base address when an alias record existed with the same street information.
- The API returned a carriage return character in the secondary number when a 11-digit ZIP Code was supplied in the input.
- Invalid firm names received a firm match instead of street match.
- Secondary unit designator information was dropped in the output.
- Firm name was matched to a General Delivery record.
- Miscellaneous address information field was incorrectly populated.
- Input address provided on address line 2 was returned to an incorrect address line after encoding.

**Version 02.19.73.16 incorporates the following enhancements/corrections:**

**General**

<b>Win</b>	Corrected a Return Code 11 issue in the ZFCT program when the product is correctly configured. (ZF-174)
<b>Win</b>	Corrected an empty output issue in the ZIPFOURceVBTest program when the product is correctly configured. (ZF-175)

*Refer to the BCC ZIPFOURce ReadMe.txt for detailed product information.*

4/17/2024