



Correction and Move Update Codes

Canadian Correction Codes

The correct field contains a [NUMERIC][ALPHA] ([NUMERIC][ALPHA] ...) list of the correction codes. The numeric specifies which components of the address has been changed; the alpha specifies the reason for the change.

Alpha Values

- A = Alternate
- F = Would not fit
- I = Incorrect Value
- M = Missing Value
- R = Rural validated on postal code only
- T = Typo in Value
- V = Verbosity

Numeric Value

- ⤴ 01 Addressee and/or Additional Delivery Information
- ⤴ 10 Complete Street Information
- ⤴ 11 Civic number
- ⤴ 12 Civic number suffix
- ⤴ 13 Street name
- ⤴ 14 Street type
- ⤴ 15 Street direction
- ⤴ 16 Suite keyword
- ⤴ 17 Suite identifier
- ⤴ 19 Delivery Information
- ⤴ 20 Complete Route Service Information
- ⤴ 22 Route Service Keyword
- ⤴ 24 Route Service identifier
- ⤴ 30 Complete PO Box/Bag Information
- ⤴ 32 PO Box/Bag keyword
- ⤴ 34 PO Box/Bag identifier
- ⤴ 40 Complete General Delivery Information
- ⤴ 42 General Delivery keyword
- ⤴ 50 Complete Delivery Installation Information
- ⤴ 52 Delivery Installation Area Name
- ⤴ 54 Delivery Installation Type



- ▲ 56 Delivery Installation Qualifier
- ▲ 60 Municipality
- ▲ 62 Province
- ▲ 64 Postal Code

Valid Codes

The codes as they appear in the Valid field.

Codes

- V Valid: The address did not need to be changed.
- C Corrected: The address changed from input.
- U Uncorrectable: iAddress was unable to provide a correction for this address.
- G Foreign: The address is foreign to Canada.
- F Failed: The address caused an error during correction,

***contact Flagship Software Support.

IAddress Status Codes

The iAddStatus field is populated by 3-5 characters denoting different correction information.

Character 1 – Record Type Code

Defines the type of record in the Address Lookup and the Text Lookup file.

- 1 Street Address Record
- 2 Street Served By Route Record
- 3 Lock Box Address Record
- 4 Route Service Address Record
- 5 General Delivery Address Record
- A Building Name Record
- B Large Volume Reciver Name (Street) Record
- C Government Name (Street) Record
- D Large Volume Receiver Name (Lock Box) Record
- E Government Name(LockBox) Record
- F General Delivery Name Record



Character 2 – Address Type Code

A code denoting whether an address is in the form of a civic address or in the form of a delivery installation address.

- 1 Civic (Street) Address Format
- 2 Delivery Installation (Station) Address Format

Character 3 – Delivery Mode Type Description

The part of the Delivery Mode which identifies the type of delivery service.

- A Delivery to Block Face Address
- B Delivery to an Apartment Building
- E Delivery to a Business Building
- G Delivery to a Large Volume Receiver
- H Delivery via a Rural Route
- J General Delivery
- K Delivery to a PO Box (not a CMB)
- M Delivery to a Large Volume Receiver (PO BOX)
- T Delivery via a Suburban Service
- X Delivery via a Mobile Route
- Z Postal Code is retired (No further delivery to this code)

Characters 4,5 – Questionable Flag

- QB Questionable PO Box
- QR Questionable Rural

US Correction Codes

A brief Description of Us Correction Codes as they appear in the correct field.

Codes

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| AA / A2 / A3 / A5 / A6 / A9 / AU / BB / CC / DD / D1 / D2 / EE / E1 / E2 / E3 / E4 / E5 / FF / F1 / G1 / II / I1 / HH / H1 / RR / S1 / S1 / S2 / S3 / UA / UB / UC / UD / U1 / X1 / Z0 | Address Corrected / Valid |
| KK / Z1 / Z2 A1 A7 | Address Uncorrectable No Zip + 4 match Rejected due to EWS |



| | |
|------------------------|--------------------------------------------------|
| A8 | Address not specified |
| AC | Multiple County's defined |
| G4 | Street Number out of Range of alias street match |
| JJ | Failed to Match last line of address |
| K1 | Missing / Incorrect street Directional(s) |
| K2 | Missing / Incorrect street suffix |
| MA / MC / M1 / M3 | Missing Street Number |
| MB | Street Name Not Found |
| MD | Firm Name not matched |
| NA / NB / NC / N1 / R1 | Missing / Incorrect Secondary Number |
| P1 / P2 / P3 / Q1 / Q2 | Missing / Incorrect RR/HC/PO Box |
| Number | |

Extended Description of Error Codes

- AA Record Matched to the ZIP+4 File
This footnote is set any time that a record is matched. This is the equivalent of having a return code of 31 or 32.
- A1 Record Not Matched to the ZIP+4 File
This footnote is set every time that a record does not match to the ZIP4 file, but makes it through basic parse and last line validation. This is the equivalent of having a return of 21 or 22.
- A2 Alias Street Name Matched
This footnote is set every time a match is made to an alias street name.
- A3 Alternate Record Matched on the ZIP+4 File
This footnote is set every time a match is made to an alternate ZIP4 record. An alternate record contains a different presentation a street name for a 'base' ZIP4 record. The addon code is the same for the alternate and the base record.
- A4 Match to Small Town Default
A small-town default match does not actually match to an existing ZIP4 record, but gives back a return code of '31' and an addon code of '9999'. This condition exists when the input ZIP code is flagged as a 'Small Town' and only accepts 'GENERAL DELIVERY' type addresses, but a street-style or PO BOX address was presented on input. Since there are no actual street or PO BOX deliveries, all addresses in this ZIP code will get a 'default' addon of '9999'.
- A5 Match to Unique ZIP Default
A Unique ZIP code is a ZIP code set up by an institution (like a university) or a business that handles its own mail delivery. The USPS collects the mail at the post office, and the institution picks it up and distributes it internally. Even though it is possible to have ZIP4 records for Unique ZIP code, most



institutions have addressing schemes that are not fully populated in the database. Therefore, when an input Unique ZIP code is found, and the input address is not found, a return code of '31' is given back, along with a 'default' addon of '0001'.

- A6 Match to a Highrise Default Alternate record
This footnote is set when a Highrise Default Alternate style address match is made. This condition exists when an input address contains the secondary number (an apartment, suite, etc.) along with a building name. No primary number or street name is given. For example:
456 FEDERAL BUILDING
The coder will take this address and turn it back into a street-style presentation.
123 MAIN ST STE 456
- A7 Address rejected due to EWS
See the chapter titled 'EWS System' for information on how EWS works.
- A8 Possible dual address detected
This footnote is set when a 'dual address' may be present, such as:
RR 3 BOX 123 456 MAIN ST
Since there are 2 possible addresses available, the Coder will not choose which one to parse and return. This address construct results in a 21 return code.
- A9 DPV used to break ZIP4 multiple response
In some cases when a multiple-response is found during ZIP4 address processing, the DPV engine can be used to break the tie. During this process, all the candidate records are queried against the DPV database. If one and only one record is found to have a positive DPV confirmation, then this record will be chosen for the match, and a single response code is given back from the address lookup process. This footnote is turned on under this condition.
- AC ZIP+4 Level county name is different than the ZIP Code level
Note: This footnote will only be returned if the ZIP4_COUNTY parameter is specified in either the configuration file or the AC_OPEN_T structure. See the 'Configuration File' chapter for details on when this footnote is set.
- AU Unique ZIP default information returned.
- BB DPV match, all components.
A DPV match was made using all the components of the address (primary and secondary number).
- CC DPV match primary number, not secondary number
A DPV match was made with the primary number only. A secondary number was present on the input address, but was not used for DPV.
- DD Corrected City Name and/or State Information



- The city or the state was changed.
- D1 Input city name was non-mailing, corrected (AC)
The input city name was a non-mailing name for the matched ZIP code. The output address contains the corrected city name.
- D2 ZIP+4 State code different than ZIP Code default
This footnote indicates that the state code on a matched ZIP4 record differs from the state code assigned to the ZIP code of the output address. This can happen when a physical address exists in one state, but the mail is delivered to that address from another state. In some geographical situations, it is better for a post office in one state to deliver mail to addresses that are in a neighboring state. In these situations, the output address of the Coder will still show the state code of the delivering post office. The state code of the physical address will be shown in the matching ZIP4 record (the matched_rec field of the AC_OUTPUT_ADDR_T structure).
- EE Corrected Primary Address (E1 or E2 is on)
The primary address line was corrected.
- E1 Corrected primary address component (AC)
A directional or suffix address component was added, deleted, or changed.
- E2 Corrected primary street name (AC)
Set if the street name spelling was changed.
- E3 Primary address line standardized (AC)
Set if any portion of the primary address line was standardized.
- E4 A questionable address standardization was made. This can happen when an input address looks like 123 MAIN ST BOX 123 (a possible dual address), and it gets standardized to 123 MAIN ST # 123.
- E5 The first letter of the street name has been added or changed.
- FF Corrected Secondary Address Data
Set when the secondary number or unit designator was changed. Examples of allowable secondary number changes are reversing alpha-numerics, and adding or deleting dashes:
A5 => 5A
A5 => A-5
- F1 Military match
A match was made to a ZIP Code that has been determined to be a Military ZIP Code.
- G1 General Delivery match
A match was made to a General Delivery ZIP+4 record.
- G4 Out of range alias match
A match was made to an alias street name, but the primary number did not match the allowable range for the alias street name. This is a 'no-match' condition and a return code of '21' is given back.
- II Firm and address swapped (AC)



- The firm line and the address line were swapped to make the match.
- I1 Urb moved from address line (AC)
A PR Urbanization was found in the address line and moved to the Urbanization line.
 - HH ZIP Code Changed
The input ZIP code was changed.
 - H1 ZIP code added (AC)
No ZIP code was in the input address, and one was added.
 - JJ Failure to Match Last Line of Address
The last line was not able to be matched. This is equivalent to the return code '11'.
 - KK Multiple Match in Primary Address Field
 - K1 Multiple Match due to Missing/Incorrect Directional(s)
 - K2 Multiple Match due to Missing/Incorrect Suffix
 - MA ZIP4 -Missing Street Number
A primary number is missing from the input address.
 - MB ZIP4 - Street Name Not Found
The input street name could not be found in the ZIP+4 data file.
 - MC ZIP4 - No Such Primary Number
This is set when the input street name was found in the ZIP+4 file, but the input primary number could not be found with the given street name.
 - MD ZIP4 - Firm Name Not Matched
 - M1 DPV -Missing Street Number
A primary number is missing from the input address.
 - M3 DPV - No Such Primary Number
This is set when DPV cannot validate the primary number, even though the address matched to a valid ZIP+4 range.
 - NA ZIP4 -Missing Secondary Address Number
A match was made to a ZIP+4 Highrise record, but no secondary number was present on the input address.
 - NB ZIP4 - Secondary Number not found
A match was made to a ZIP+4 record, but the input secondary number could not be found.
 - NC Multiple Match in Secondary Address Field
Set when a 'multiple response' condition occurs with highrise specific records, and one cannot be picked. The Coder returns the highrise default or street level record. For example:
Input address is '123 MAIN ST # 4' and both APT 4 and STE 4 are present.
NOTE: This footnote used to be called L.
 - N1 Missing Secondary Address Number for an Address located within a highrise
For DPV, a match was made to a Highrise record, but the secondary number was not present on the input address.



- P1 Missing RR/HC Box Number for rural-route style addresses, the BOX number was missing on input.
- P2 RR/HC Box Number not found
Currently not being set.
- P3 Invalid RR/ HC/ PO BOX number.
- Q1 Missing PO Box Number
- Q2 PO Box Number not found
- RR DPV - CMRA match
The CMRA flag was set in DPV.
- R1 DPV - CMRA, no secondary number
- S1 Seasonal record information present
This footnote indicates that seasonal information is present. The seasonal information is in the 'seasonal' field of the AC_MATCH_INFO_T structure. Certain addresses receive mail only during part of the year. The 'seasonal' field contains a 12-character, NULL-terminated string indicating which months have mail delivery for the given output address. The field is a string of 'Y' and 'N' flags. Each of the 12 positions correspond to the 12 months of the year. A 'Y' value in a position indicates that the mail is delivered for that month. For example, the string 'NNNNYYYYNNNN' shows that mail is only delivered in the months of May, June, July, and August.
- S2 SUITE Link information added to the address.
- S3 Address matched to STOP Link.
- UA No PR Urbanization was given with the input address, but an Urbanization was found in the matched ZIP4 record. This Urbanization was returned on output.
- UB The input PR Urbanization was verified to be valid according to the ZIP4 record that was matched.
- UC The input PR Urbanization was not verified with the matched ZIP4 record, because the matched record contained a blank Urbanization field. The input Urbanization was retained in the output address.
- UD The input PR Urbanization was not verified with the matched ZIP4 record, because the matched record contained a different Urbanization name. The Urbanization from the matched ZIP4 record was returned with the output address.
- U1 Unique ZIP Code Match
A match was made to a ZIP Code that has been determined to be a Unique ZIP Code. See footnote A5 for more information on Unique ZIP Codes.
- X1 IntelliZIP match
This footnote indicates that a match was made using IntelliZIP logic. If a match is not made through normal address matching procedures, and if the input address contains a 9-digit ZIP code, then a reverse 9-digit lookup is performed. If the ZIP+4 record corresponding to the input 9-digit ZIP code



closely matches the input address, then a match will be returned and this footnote will be set.

- Z0 ZIPMOVE match
A match was made to a ZIP Move address. ZIP Move represents a collection of addresses that have been affected by a ZIP code realignment (i.e. the boundaries for a ZIP code were redrawn). When this happens, some street segments will move from one ZIP code to another. This can cause problems when an input address contains the 'old' ZIP code, and the address matching software tries to change the address to keep it in the old ZIP code instead of moving to a new ZIP code. To help out, the USPS keeps a separate file of these situations that are used by address matching software. This footnote is set when the input address contains the old ZIP code, and the Coder changed it to the new ZIP code. An exact match must be made to the address in order for this to happen.
- Z1 ZIPMOVE no match due to component change
The best match available was to a ZIP Move address, but the input address was changed to get there. This is not allowed, so a no-match condition is made with a return code of '21'.
- Z2 ZIPMOVE no match due to invalid new ZIP+4
This represents a data inconsistency with the USPS ZIP4 and ZIP Move files. The address was no-matched with a return code of '21'

National Change of Address (NCOA) Field

The NCOA field contains a code of 2 to 4 characters. The first two characters represent the NCOA return type, character 3 (Canada) represents any special CPC notes about the record. Character 3 and 4 (US) gives more information about the match.

Characters 1 and 2

- UM (Unmatchable Record): General Delivery, Invalid or no name
- NM (Non-Matched Record): Valid address that does not appear in the NCOA database (a.k.a. person hasn't moved)
- UB (Unapplied Business Match): A record that matched as a business move but has not yet been applied to the job.
- UI (Unapplied Individual Match): A record that matched as an individual move but has not yet been applied to the job.
- UF (Unapplied Family Match): A record that matched as a family move but has not yet been applied to the job.
- UN (Unapplied Nixie Match): A record that matched as a nixie record but has not yet been applied to the job.



- AB (Applied Business Match): A record that matched as a business move and has been applied to the job.
- AI (Applied Individual Match): A record that matched as an individual move and has been applied to the job.
- AF (Applied Family Match): A record that matched as a family move and has been applied to the job.
- AN (Applied Nixie Match): A record that matched as a nixie record and has been removed from the job.

3rd Characters (Canada):

- C CPC initiated, Canada Post put in the NCOA record.
- U Rural to Urban Conversion.
- M NCOA Moveback, person moved and then moved back to the previous address.
- X Privacy, no documentation, generally associated with nixies.

3rd/4th Characters (U.S.):

- A Perfect Match
- 01 Perfect match but a foreign record is returned
- 02 Match! Nixie
- 03 Match! Nixie P.O. Box
- 14 Match! (New address is undeliverable)
- 19 Match! Non automation record returned. (no zip 4 coding)
- 91 Match! Some secondary information was absent in the input address, therefore it is dropped from return.
- 92 Match! Some secondary information was absent in the master record, therefore it is dropped from return.
- 04 No Match (address good but needs individual information, only has family)
- 09 No Match (address good but needs individual information, Family match to Building not permitted)
- 10 No Match (address good but needs individual information, Family match to Rural Route not permitted)
- 18 No Match (address good but needs individual information, Family match to GD not permitted)
- 11 No Match BUT This would be a match if family matching is used.
- 15 No Match BUT This would be a match if family matching is used.
- 00 No Match -- perfect no match blank--No Match -- record is uncoded
- 06 No Match (address good but individual information does not match)
- 16 No Match (address good but individual information does not match)
- 17 No Match (address good but individual information does not match)



- 13 No Match (address good but individual information does not match)
- 12 No Match (address is good but middle initial conflicts on individual matching)
- 66 No Match (used to be a match)
- 05 No Match (address good but delivery point is ambiguous)
- 07 No Match (address good but genders do not match)
- 08 No Match (address matched to multiple results that were conflicting.)
- 20 No Match, too many possible returns

Do Not Mail (DNM) Field

The DNM field contains a 2 character code, there is no code for an applied DNM record as these will only ever be purged from the data.

Codes

- UM Unmatchable Record: General Delivery, Invalid or no name
- NM Non-Matched Record: Valid address that does not appear in the DNM database (a.k.a. person hasn't moved)
- UC Unapplied DNM: Matched to DNM but has not yet been purged

MVUP_CODES Field

The MVUP_CODES field contains any codes for extra move update services. The first two characters are reserved for the return from deceased list processing.

Canadian Deceased List(CDL) Codes

- UM Unmatchable Record: Invalid address for deceased processing or no name.
- NM Non-Matched Record: Valid address that does not appear in the Canadian deceased list. (This individual is not deceased)
- UD Unapplied CDL: Matched to the Canadian deceased list but has not yet been purged.