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NCOA$^{Link®}$ Layout C

This layout contains

New data - if a new address is obtained in the NCOA^{Link}, LACS^{Link} or Suite^{Link} process

Standardized address data - standardized original address if no new address is found

Original address data - if a record is not ZIP + 4 coded and no new address is found, you will receive your original address unaltered

Additional fields to help you interpret the updated data

Field Name	Length	Description (* fields added only if requested)
zip4	4	ZIP + 4 Code. If ZIP type "Determine from file" is selected and the input file has a 9 or 10 digit ZIP Code™ field, the ZIP + 4 Code will be placed in that field
dlvpnt	2	Delivery point
chkdgt	1	Legacy check digit
crrt	4	Carrier route code
lotno	4	Line of Travel (LOT) number for carrier route mailings
lotord	1	LOT ascending or descending sort flag
county	3	Three digit county code
congdist*	3	U.S. Congressional District
aptind	1	Data in this field applies to **input** address National Deliverability Index (NDI) scoring for apartment addresses 1 = Apartment address without apartment number 2 = Apartment address with apartment number (affirmed) Blank = Not an apartment address
rrind	1	Data in this field applies to **input** address National Deliverability Index (NDI) scoring for RR/HC addresses 1 = RR/HC address without Box number 2 = RR/HC address with Box number (affirmed) Blank = Not a RR/HC address
zipflg	1	Data in this field applies to **input** address Information about ZIP Code 1 = ZIP Code not changed, address is in a valid range for input ZIP Code 2 = ZIP Code changed, address is in a valid range for new ZIP Code Blank = ZIP Code could not be validated
gender	1	Gender Code B = Both C = Company F = Female M = Male U = Unknown/undetermined Blank = No input name
coa_movtyp	1	Type of match made to NCOA^{Link} or PCOA database B = Business F = Family I = Individual P = Proprietary change-of-address (if optional service requested) R = LACS^{Link} S = Suite^{Link}
coa_dlvcod	1	New Address is provided only for records with code “M”, “S”, "T" or “L” M = Forwardable move S = Forwardable move, secondary address cannot be confirmed K = Moved left no forwarding address G = PO Box closed F = Moved to a foreign address P = Temporary move, or moved and new primary address can not be confirmed or converted to a deliverable address; no forwarding address provided L = LACS^{Link} conversion T = Suite^{Link} match 1 = PCOA match
coa_movdat	6	Date NCOA^{Link} or PCOA move became effective (YYYYMM format)
lac_rectyp	2	Type of address conversion found on the LACS^{Link} file 00 = Unknown 05 = RR/HC with Box to Street Type 07 = Street Type to Street Type

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coa_ftnts	2	NCOA^{Link} footnotes defined by USPS A = NCOA^{Link} match: name match with no footnotes A1 = NCOA^{Link} match: middle name/initial not present A2 = NCOA^{Link} match: matched full middle name to initial A3 = NCOA^{Link} match: matched full first name to initial A4 = NCOA^{Link} match: family move, first/middle name different
z4ews	1	EWS consists of records containing partial address information limited to the street name, pre- and post-directionals and a ZIP Code. For an address record to be EWS eligible, it must be an address not present on the most recent monthly production ZIP + 4 file. EWS flag Y = Matched to EWS file N = Not an EWS match
dpv_vacant	1	Vacant Indicator Y = Location has been vacant for 90+ days N = Not a vacant address Blank = Record not presented for vacant match (not ZIP + 4 coded)
dpv_flag	1	Indicates whether or not a record matched to the DPV database Y = Delivery point validated; primary number valid and secondary number (when present) valid D = Valid primary number; input missing secondary number (primary for RR) S = Valid primary number; secondary number (primary for RR) present and not confirmed, or a single trailing alpha on a primary number was dropped to make a DPV match N = No delivery point validation Blank = Record not presented for DPV match (not ZIP + 4 coded)
dpv_cmra	1	Indicates whether or not the address is a Commercial Mail Receiving Agency (CMRA) Y = Address is a CMRA N = Address is not a CMRA Blank = Record not presented for CMRA match (not ZIP + 4 coded)
dpv_dna*	1	DPV Door Not Accessible Indicator Y = Carrier cannot access the mail receptacle or door N = Address is not flagged as door not accessible Blank = Address not presented to DNA table (not ZIP + 4 coded)
dpv_nsl*	1	DPV No Secure Location Indicator. There is no security at the address. Examples of this include no one at the address to collect the mail, storefront does not have a mail receptacle, business is closed on certain days. Y = Address is flagged as DPV NSL N = Address is not flagged as DPV NSL Blank = Address not presented to DPV NSL table (not ZIP + 4 coded)
dpv_pobop*	1	DPV PO Box Only Postcode Indicator Y = ZIP Code is for a PO Box only zone N = ZIP Code is not for a PO Box only zone Blank = Address not presented to PO Box Only table (ZIP Code not assigned)
dpv_tback*	1	DPV PO Box Throwback Indicator. Identifies street addresses where the delivery point is a street address but mail delivery is to the customer PO Box address. Y = Address is a DPV PO Box Throwback N = Address is not a DPV PO Box Throwback Blank = Address not presented to DPV Throwback table (ZIP Code not assigned)
dpv_ndd*	1	DPV Non-Delivery Day Indicator Y = There are days when there is no mail delivery N = Address is not flagged as having non-delivery days Blank = Unable to determine if there are days when there is no mail delivery
dpv_nddday*	7	DPV Non-Delivery Day List. If DPV_NDD = N or blank, this field will be blank. If DPV_NDD = Y, this field will be populated with Y for non-delivery days and N for delivery days as follows: 1st Character (Sunday) 2nd Character (Monday) 3rd Character (Tuesday) 4th Character (Wednesday) 5th Character (Thursday) 6th Character (Friday) 7th Character (Saturday) Example: YNNNNNY indicates mail is delivery Monday through Friday, but not on Saturday or Sunday
dpv_enstat*	1	DPV Enhanced Status Indicator D = Address was DPV confirmed for the primary number only. Secondary information was missing N = Both primary and secondary number (if present) failed to DPV confirm R = Address confirmed but assigned to phantom route R777 or R779 and USPS delivery is not provided S = Address was DPV confirmed for the primary number only, the secondary number was present but invalid or a single trailing alpha on a primary number was dropped to make a DPV match, and secondary information is required. Y = Address was DPV confirmed for both primary and secondary numbers necessary to determine a valid delivery point Blank = Address was not presented to DPV table (not ZIP + 4 coded)
dpv_pbsa*	1	DPV PO Box as Street Address Indicator Y = Address is a PO Box representd as a Street Address N = Address is not a PO Box representd as a Street Address Blank = Address not presented to PBSA table (not ZIP + 4 coded)
dpv_dropin*	1	DPV Drop Indicator Y = Address received mail as part of a drop N = Address is not flagged as having mail delivered to a single receptacle at a site Blank = Address not presented to Drop Indicator table (not ZIP + 4 coded)

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dpv_nostat	1	DPV NoStat Indicator. If an address is flagged as No Stat the USPS has found one of the following cases: vacant property, address receives mail as a part of a drop, or address does not have established delivery yet. Y = Address is flagged as DPV NoStat N = Address is not flagged as DPV NoStat Blank = Address not presented to DPV NoStat table (not ZIP + 4 coded)
dpv_nstatr*	2	DPV NoStat Reason Code 01 = Internal Drop Address. Address does not receive mail delivery directly from the USPS. The USPS delivers to a drop location that services this address. 02 = The delivery is new construction and delivery has not been established or on a Rural/CDS/HCR where the delivery point is unoccupied for more than 90 days. 03 = Address does not DPV confirm 04 = College/Military Zone and Other types 05 = Address is no longer a possible delivery, the address is on an R777 route, or the PO Box has never been rented or has been declared un-rentable, or the NoStat reason is no one of the other reasons. 06 = Address has incorrect secondary or missing secondary and secondary information is required.
opt_flags	3	Optional return codes (codes returned if optional services are requested) A = Advanced address correction U = Apartment/unit number corrected or appended P = PCOA (Proprietary change of address) L = PCOA Plus (Proprietary change of address)
status	6	Status/error codes (See Appendix A)
dpv_ftnts	12	DPV footnotes AA = Input address ZIP + 4 match A1 = Input address ZIP + 4 not matched BB = Input address DPV matched (all components) CC = Input address primary number DPV matched, secondary number not DPV matched, secondary number not required C1 = Input address primary number DPV matched, secondary number not DPV matched, secondary number required F1 = Input address matches a military address G1 = Input address matches a general delivery address IA = Informed address identified M1 = Input address primary number missing M3 = Input address primary number invalid N1 = Input address primary number DPV matched, secondary number missing, secondary number required NL = An NCOA^{Link} move address cannot be DPV confirmed. A return code of NL means that the NCOA^{Link} directory data does not exactly match the DPV directory data. This may happen because the NCOA^{Link} directories are updated more frequently than the DPV directories. PB = Identified PO Box Street Address P1 = Input address missing PO, RR, or HC Box number P3 = Input address PO, RR, or HC Box number invalid RR = Input address DPV matched to CMRA R1 = Input address DPV matched to CMRA but PMB number not present R7 = Address assigned to phantom route R777 or R779 TA = Input address primary number DPV matched by dropping trailing alpha U1 = Input address matches a unique address
coa_rtncd	2	USPS NCOA^{Link} Return Codes. See Appendix B for codes.
ste_rtncd	2	USPS Suite^{Link} return codes A = Suite^{Link} record match, suite information is added to the standardized address 00 = No match, and no suite information added Blank = Record not presented for Suite^{Link} match
supp_flags	10	Suppression & duplicate identification flags (codes returned if service/s are requested) A = Deceased B = DMA Do not mail C = Prison D = Duplicate record E = Keep record F = Non duplicate
Geocode Data	**Length**	**Description - returned only when geocoding is requested**
latitude	10	Latitude (degrees north of the Equator) in the format "12.123456"
longitude	11	Longitude (degrees east of the Greenwich Meridian) in the format "-12.123456"
gc_tract	6	Census Tract. Statistical subdivision of a county or an equivalent area.
gc_blkgrp	1	Block Group - first digit of the Census Block. Statistical division of Census Tract.
gc_block	4	Census Block. Small area bounded by visible and/or invisible features.
gc_placecd	5	FIPS place code. Number assigned by the U. S. government to each incorporated municipality. This field is only returned with address level geocoding, and only populated for address level matches.
gc_mcd	6	Census Bureau minor civil division (MCD) data, or if MCD data is unavailable, census county division (CCD) data. This field is only returned with address level geocoding, and only populated for address level matches.
gc_level	1	Level of geocode match A = Address match 9 = 9-digit match in centroid 7 = 7-digit match in centroid 5 = 5-digit match in centroid 0 = No match found Blank = Address not presented for Geocode match

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Appendix A

Status Codes

A status code tells you how an address was corrected or standardized. The code contains six characters, and each character tells you something about how the record was changed.

Code	Description
1st Character	
S	Input address was correct or standardized
2nd Character (address)	
N	No significant change to address
Y	Address changed
3rd Character (urbanization)	
N	No significant change to urbanization
Y	Urbanization changed
4th Character (city)	
N	No significant change to city
Y	City changed
5th Character (state)	
N	No significant change to state
Y	State changed
6th Character (ZIP/ZIP + 4)	
N	No significant change to ZIP
Y	ZIP changed
4	ZIP + 4 changed

Error Codes

An error code tells you the address failed to validate against the official USPS data. The code indicates the reason the address is invalid or incomplete.

Code	Description
E10	Unable to process due to insufficient data
E11	Invalid City, State and/or ZIP
E12	Foreign address
E19	Unhandled exception; contact support
E20	Unable to validate due to invalid, missing, insufficient, or conflicting address details
E31	Missing primary number and street name, or cannot identify a primary address line
E32	Unrecognized street name
E33	Missing or unrecognized primary number
E34	Invalid primary number
E40	Unable to resolve multiple matches for primary address
E41	Unable to resolve multiple matches due to invalid or missing directional/s
E42	Unable to resolve multiple matches due to invalid or missing suffix
E43	Unable to resolve multiple matches due to both suffix and directional/s that are invalid or missing
E45	Unable to resolve multiple matches due to invalid or missing urbanization
E46	Unable to resolve multiple matches due to invalid or missing city name
E47	Unable to resolve multiple matches due to invalid or missing ZIP
E48	Unable to resolve multiple matches due to invalid or missing ZIP+4
E50	EWS match
E60	USPS does not deliver to this address
E61	Unable to DPV validate the address

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Appendix B

NCOA^{Link} Return Codes

A = COA match
The input record matched to a business, individual or family type master file record. A new address could be returned.

00 = No match
The input record could not be matched to a master file record. A new address could not be returned.

01 = Found COA: Foreign move
The input record matched to a business, individual or family type master file record but the new address was outside USPS delivery area.

02 = Found COA: Moved left no address (MLNA)
The input record matched to a business, individual or family type master file record and the new address was not provided to USPS.

03 = Found COA: Box closed no order (BCNO)
The input record matched to a business, individual or family type master file record which contains an old address of PO Box that has been closed without a forwarding address provided.

04 = Cannot match COA: Street address with secondary
In the Standard mode utilizing Family matching logic, the input record matched to a family record type on the master file with an old address that contained secondary information which obtained a ZIP + 4 street level match. The input record does not contain secondary information. This address match situation requires individual name matching logic to obtain a match and individual names do not match.

05 = Found COA: New 11-digit DPBC is ambiguous
The input record matched to a business, individual or family type master file record. The new address on the master file record could not be converted to a deliverable address because the DPBC represents more than one delivery point.

06 = Cannot match COA: Conflicting directions: Middle name related
There is more than one COA (individual or family type) record for the match algorithm and the middle names or initials on the COAs are different. Therefore, a single match result could not be determined.

07 = Cannot match COA: Conflicting directions: Gender related
There is more than one COA (individual or family type) record for the match algorithm and the genders of the names on the COAs are different. Therefore, a single match result could not be determined.

08 = Cannot match COA: Other conflicting instructions
The input record matched to two master file (business, individual or family type) records. The two records in the master file were compared and due to differences in the new addresses, a match could not be made.

09 = Cannot match COA: High-rise default
The input record matched to a family record on the master file from a high-rise address ZIP + 4 coded to the building default. This address match situation requires individual name matching logic to obtain a match and individual names do not match.

10 = Cannot match COA: Rural default
The input record matched to a family record on the master file from a Rural Route or Highway Contract Route address ZIP + 4 coded to the route default. This address situation requires individual name matching logic to obtain a match and individual names do not match.

11 = Cannot match COA: Individual match: Insufficient COA name for match
There is a master file (individual or family type) record with the same surname and address but there is insufficient name information on the master file record to produce a match using individual matching logic.

12 = Cannot match COA: Middle name test failed
The input record matched to an individual or family record on the master file with the same address and surname. However, a match cannot be made because the input name contains a conflict with the middle name or initials on the master file record.

13 = Cannot match COA: Gender test failed
The input record matched to a master file (individual or family type) record. A match cannot be made because the gender of the name on the input record conflicts with the gender of the name on the master file record.

14 = Found COA: New address would not convert at run time
The input record matched to a master file (business, individual or family type) record. The new address could not be converted to a deliverable address.

15 = Cannot match COA: Individual name insufficient
There is a master file record with the same address and surname. A match cannot be made because the input record does not contain a first name or contains initials only.

16 = Cannot match COA: Secondary number discrepancy.

The input record matched to a street level individual or family type record. However, a match is prohibited based on 1 of the following reasons: 1) There is conflicting secondary information on the input and master file record; 2) the input record contained secondary information and matched to a family record that does not contain secondary information. In item 2, this address match situation requires individual name matching logic to obtain a COA match and individual names do not match.

17 = Cannot match COA: Other insufficient name
The input record matched to an individual or family master file record. The input name is different or not sufficient enough to produce a match.

18 = Cannot match COA: General delivery
The input record matched to a family record on the master file from a General Delivery address. This address situation requires individual name matching logic to obtain a match and individual names do not match.

19 = Found COA: New Address not ZIP + 4 coded.

New address primary number not DPV confirmable or Temporary Change Of Address. There is a change of address on file but the new address cannot be ZIP + 4 coded and therefore there is no 11-digit DPBC to store or return, the new address primary number cannot be confirmed on DPV or the new address is temporary

20 = Cannot match COA: Conflicting directions after re-chaining
Multiple master file records were potential matches for the input record. The master file records contained different new addresses and a single match result could not be determined.

66 = Daily delete
The input record matched to a business, individual or family type match that is present in the daily delete file. No change is returned. Records in the daily delete file are pending deletion. Reasons include the following: move was filed as family when it should have been individual, move filed that should not have been, mistakes in data provided to the USPS.

91 = COA Match: Secondary number dropped from COA
The input record matched to a master file record. The master file record had a secondary number and the input address did not. The record is a ZIP + 4 street level match.

92 = COA Match: Secondary number dropped from input address
The input record matched to a master file record, but the input address had a secondary number and the master file record did not. The record is a ZIP + 4 street level match.

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