

NCOA^{Link®} Layout C

This layout contains

New data - if a new address is obtained in the $\mathsf{NCOA}^\mathsf{Link}, \mathsf{LACS}^\mathsf{Link}$ or $\mathsf{Suite}^\mathsf{Link}$ 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
zip4	4	ZIP + 4 Code. If input file has a 9 or 10 digit ZIP Code [™] field, this data 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
		or PCOA confidence code if a new address was provided from PCOA processing
		1 =PCOA forwardable move; high confidence
		2 =PCOA forwardable move; confident
		3 =PCOA forwardable move; less confident*
		4 = PCOA forwardable move; low confidence*
		* Before using an updated address with PCOA code 3 or 4, we recommend using an additional method of validation (e.g.,
		phone call, email) to confirm accuracy.
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
ιαυ_ι ευιγρ	۷	1 ype of address conversion found on the LAGS THE THE ON EIGHT THE
		•••
		05 = RR/HC with Box to Street Type
		07 = Street Type to Street Type

0		liek
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
4ews	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
dpv_flag	1	Blank = Record not presented for vacant match (not ZIP + 4 coded) Indicates whether or not a record matched to the DPV database
pv_nag		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
dpv_dna	1	Blank = Record not presented for CMRA match (not ZIP + 4 coded) DPV Door Not Accessible Indicator
upv_una	'	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
dpv_tback	1	Blank = Address not presented to PO Box Only table (ZIP Code not assigned) DPV PO Box Throwback Indicator. Identifies street addresses where the delivery point is a street address but mail
-1		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
dpv ndd	1	Blank = Address not presented to DPV Throwback table (ZIP Code not assigned) DPV Non-Delivery Day Indicator
apv_naa		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 (Anturday)
		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	Blank = Address was not presented to DPV table (not ZIP + 4 coded) DPV PO Box as Street Address Indicator
ap 1_pood		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
niqorb_vqt	1	

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
		B or P = PCOA (Proprietary change of address)
status	6	L = PCOA Plus (Proprietary change of address) Status/error codes (See Appendix A for status codes and Appendix B for error codes)
dpv_ftnts	4	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 C 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 longitude	10 11	Latitude (degrees north of the Equator) in the format "12.123456" 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 gc_block	4	Block Group - first digit of the Census Block. Statistical division of Census Tract. 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
gc_mcd	6	with address level geocoding, and only populated for address level matches. 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

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.

Value	What Changed
	1st Character
S	Nothing was truncated
Α	The address line was truncated to fit in your field
В	The address line and city name were truncated to fit in your fields
С	The city name was truncated to fit in your field
	2nd Character
0	No significant change to the city, state, ZIP [™] , or ZIP + 4
1	ZIP
2	City
3 4	City and ZIP
4	State
5 6	State and ZIP
6	City and state
7	City, state, and ZIP
8 9 A	ZIP + 4
9	ZIP and ZIP + 4
В	City and ZIP + 4
C	City, ZIP, and ZIP + 4 State and ZIP + 4
D	State, ZIP, and ZIP + 4
E	City, state, and ZIP + 4
F	City, state, ZIP and ZIP + 4
	3rd Character
0	No significant change to the predirectional, primary (street) name, postdirectional, or suffix
1	Suffix
2	Predirectional
3	Predirectional and suffix
4	Postdirectional
5	Suffix and postdirectional
6	Predirectional and postdirectional
7	Predirectional, suffix, and postdirectional
8	Primary name
9	Primary name and suffix
Α	Predirectional and primary name
В	Predirectional, primary name, and suffix
С	Primary name and postdirectional
D	Primary name, suffix, and postdirectional
E	Predirectional, primary name, and postdirectional
F	Predirectional, primary name, postdirectional, and suffix
	4th Character
0	No change in county, carrier route, DP2 and/or DPC, or unit designator
1	Unit designator
2	DP2 and/or DPC
3	DP2 and/or DPC and unit designator
4	Carrier route
5	Carrier route and unit designator
6 7	Carrier route, and DP2, and/or DPC Carrier route, and DP2 and/or DPC, and unit designator
	County number
9	County number and unit designator
A	County number, and DP2, and/or DPC
В	County number, DP2 and/or DPC, and unit designator
C	County number, 512 and on 510, and unit designator
D	County number, carrier route, and unit designator
E	County number, carrier route, and DP2, and/or DPC
F	County number, carrier route, and DP2 and/or DPC, and unit designator
	5th Character
	No change to the LOT (line of travel), LOT Order (line of travel order), or Urb (Urbanization code)
0	
0	LOT
0 1 2	LOT Order
1	-
1	LOT Order LOT and LOT Order Urb
1 2 3 4 5	LOT Order LOT and LOT Order Urb Urb and LOT
1 2 3 4 5 6	LOT Order LOT and LOT Order Urb Urb and LOT Urb and LOT Order
1 2 3 4 5	LOT Order LOT and LOT Order Urb Urb and LOT Urb and LOT Order Urb, LOT, and LOT Order
1 2 3 4 5 6	LOT Order LOT and LOT Order Urb Urb and LOT Urb and LOT Order

Appendix B

Error Codes

Code	Description
Code	
E101	The data contains either 1) no last-line data at all, 2) only a city name, or 3) only a state. There is not enough last-line data to justify going any
E194	further with the assignment process. Failure to match to Unique ZIP Code, directional, street suffix, or primary number may be missing or invalid.
	The input data does not include a recognizable city name, so look-up in the City directory is impossible. The input data includes a ZIP Code, but no
E212	match for it can be found in the ZCF directory. This error does not indicate whether or not the state data is valid.
	The input data includes a valid state and something that might be a city name, but no match for them can be found in the City directory. The input
E213	
	data does not include a ZIP Code, so no look-up in the ZCF directory is possible. The input data includes something that might be a city name, and something that might be a ZIP Code. However, both of them are invalid, because
E214	no match for either of them can be found in the City and ZCF directories.
	The input data may or may not include a ZIP Code. If a ZIP is input, no match for it can be found in the ZCF directory. When looking up the input
E216	city and state in the city directory, the software finds two or more matching cities in the state. Because the input ZIP is invalid or missing, the
LZIO	software cannot break the tie between possible city matches, nor determine which ZIP to assign.
E302	Nothing in the input record is recognized as a primary address line.
	No match for the input street name can be found in the ZIP+4 directory. Perhaps the street name is misspelled or incorrectly abbreviated. If the
E412	input address line contains extraneous data that might be interpreted as a part of the street name, this also can result in E412.
	The ZIP+4 directory contains two or more street names that resemble the input street name. However, the resemblance between potential matches
E413	is so close that one cannot be chosen.
	Nothing in the input address line is recognized as a primary range (house number). This may mean that the primary range truly is missing, or that it
E420	cannot be recognized.
F.16:	According to the ZIP+4 directory, the input primary range (house number) is invalid. That is, it does not fall within any of the ranges listed for that
E421	street, route, or building.
E460	The ZIP+4 directory indicates that a predirectional is required to choose between possible matches. However, either the input data does not
E422	include a predirectional, or the input predirectional is invalid (not among those listed for the street).
F 400	The ZIP+4 directory indicates that a suffix is required to choose between possible matches. However, either the input data does not include a
E423	suffix, or the input suffix is invalid (not among those listed for the street).
E 405	The ZIP+4 directory indicates that both a suffix and a directional are required to choose between possible matches. However, either the input data
E425	does not include a suffix and directional, or the input suffix and directional are invalid (not among those listed for the street).
F407	The ZIP+4 directory indicates that a postdirectional is required to choose between possible matches. However, either the input data does not
E427	include a postdirectional, or the input postdirectional is invalid (not among those listed for the street).
	The input ZIP is missing or invalid. The City directory shows that the input city/state covers two or more ZIP Codes. The ZIP+4 directory has
E428	matches for the address line in at least two of those ZIP Codes. The software can't use the invalid input ZIP to break the tie on the address line, nor
	use the address line to choose a valid ZIP.
	The input city name is missing or invalid. The ZCF directory shows that the input ZIP applies to two or more city names. The ZIP+4 directory has
E429	matches for the address line in at least two of those citites. The software can't use the input city to break the tie on the address line, nor use the
	address line to choose a city name.
E430	The ZIP+4 directory contains two or more address lines that resemble the input address line. However, the similarity between potential matches is
00	so close that one cannot be chosen over another.
E431	The ZIP+4 directory contains two or more address lines that resemble the input address line. To break the tie, the Puerto Rican urbanization is
	needed. However, either the input address does not include an urbanization, or the input urbanization is incorrect.
E439	Exact match made in EWS directory.
E500	E500 is a catch-all error code assigned when no more specific code can be assigned. Usually it indicates that no potential match meets the
	minimum confidence level, or that there is an unresolved tie between two or more potential matches.
E501	The address is foreign—that is, not within the domestic U.S., territories, or possessions.
E502	All of the fields used in address look-up are blank. There may be data in non-address fields. The input address lice outside the area covered by the ZIP 4 directory. This error usually excurs when a state or regional ZIP 4 directory in being
	The input address lies outside the area covered by the ZIP+4 directory. This error usually occurs when a state or regional ZIP+4 directory is being used, or a custom directory created through the Extract utility. E503 should not occur when using the National directory (zip4us.dir). If it does, it
E503	may mean that you have found a conflict between the City and ZCF directories and the National directory. You should report it to your Address
	Management Systems Office by sending them an e-mail (amsssupport.ncsc@usps.gov). The address line matches at least two ZIP+4 records. The ranges of those ZIP+4 records overlap, and the software cannot break the tie. E504
E504	indicates a flaw in the ZIP+4 database. You should report it to your Address Management Systems Office by sending them an e-mail
L304	(amssupport.ncsc@usps.gov).
	The record matches an undeliverable default record. If further information were provided, such as secondary address data or firm name, the
E505	address would have been assigned.
	According to the USPS, no delivery to this address is possible. The address is listed in the ZIP+4 directory, but the record is tagged as
	undeliverable by the USPS. Most often, it might be a cemetery, parking ramp, or condemned building. E600 is unusual because it indicates a
E600	successful match to the ZIP+4 directory. All other error codes mean that there was no match. Undeliverable addresses are tagged as "errors" for
	the convenience of users who suppress mailing to "bad" addresses—unassigned and undeliverable records.
E601	Not a valid delivery point. ZIP+4 removed.
	Some addresses that are valid may be marked incorrectly as undeliverable. This is caused by an error in the USPS data. If you find such an
Note:	address, you should report it to your Address Management Systems Office by sending them an e-mail (amssupport.ncsc@usps.gov).

Appendix C

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.