

Exhibit SNAP-15: NAC Interface File Formats

NAC Contributory File (NCF)

The NCF is used by a State to populate the NAC with its eligible client population that received a SNAP or DSNAP benefit for a given benefit month. Each State prepares and uploads the NCF to the NAC on a daily basis via a batch file using SFTP, including smaller files that contain new eligibles each day and a large file of ongoing/continuously eligible SNAP/DSNAP clients at the beginning of the month. The NAC, hosted by LexisNexis (LN), is configured to receive one or more NCFs each day.

NAC Contribution Data (NCD) and NAC Contribution Report (NCR)

The NCD and NCR are validation files that provide a State notification on:

- The NCF file was received
- The number of file records, errors and warnings
- Confirms the file content is acceptable and will be processed

Match Request File (MRF)

The MRF is used by a State to search the NAC to determine if a client is currently receiving SNAP or DSNAP benefits in any of the participating states. The MRF is manually or automatically initiated by the upload of a batch file by a state's technical user or in real-time via a web service interface. In this scenario, SNAP and DSNAP applications are processed within a State throughout the day. At the end of the day, data from all of the applications are collected into a single batch MRF. This file is uploaded to the State's NAC SFTP server at LN for processing. In addition, the MRF can also be initiated via a real-time web service on an individual client basis or on an individual case basis for all household members/clients as SNAP and DSNAP applications are processed.

Match Request Response (MRR)

The MRR file contains the NAC response to the previous batch MRF submission by a State. In addition, the MRR can also be a real-time web services response on an individual client or on a case for all household members/clients as SNAP and DSNAP applications are processed.

Exhibit SNAP-15: NAC Interface File Formats

10/10/2016	NAC Contributory File Definition				
Variable Name	Length	Mandatory / Optional	Type	Default Value	Comments
"CASE" Variables					
Case State Abbreviation	2	M	Alpha	N/A	Standard 2-character State Abbreviations (All Caps): AL=Alabama; FL=Florida; GA=Georgia; LA=Louisiana; MS=Mississippi; etc.
Case Benefit Type	1	M	Alpha	N/A	D=DSNAP; S=SNAP; T=TANF; U=UI; M=Medicaid; C= Child Care; N=Child Nutrition
Case Benefit Month	6	M	Numeric	N/A	CCYYMM
Case Identifier	20	O	Alpha Numeric	Spaces	
Case Last Name	30	M	Alpha	N/A	Append Name Suffix if stored separately
Case First Name	25	M	Alpha	N/A	
Case Middle Name	25	O	Alpha	Spaces	
Case Phone 1	10	O	Numeric	Zeros	
Case Phone 2	10	O	Numeric	Zeros	
Case Email	256	O	Alpha Numeric	Spaces	
Case Physical Address – Street 1	70	M	Alpha Numeric	N/A	
Case Physical Address – Street 2	70	O	Alpha Numeric	Spaces	
Case Physical Address – City	30	M	Alpha	N/A	
Case Physical Address – State	2	M	Alpha	N/A	Standard 2-character State Abbreviations (All Caps)
Case Physical Address – Zip	9	M	Numeric	N/A	
Case Mailing Address – Street 1	70	M	Alpha Numeric	N/A	Default to Physical Address if unknown
Case Mailing Address – Street 2	70	O	Alpha Numeric	Spaces	
Case Mailing Address – City	30	M	Alpha	N/A	
Case Mailing Address – State	2	M	Alpha	N/A	Standard 2-character State Abbreviations (All Caps); default to Physical Address if unknown
Case Mailing Address – Zip	9	M	Numeric	N/A	Default to Physical Address if unknown
Case County / Parish Code	3	O	Alpha Numeric	Spaces	
Case County / Parish Name	25	O	Alpha		
"CLIENT" Variables					
Client Identifier	20	M	Alpha Numeric	Spaces	If the Client ID is not available, the Client's SSN should be used. Format is #####. No dashes.
Client Last Name	30	M	Alpha	N/A	Append Name Suffix if stored separately
Client First Name	25	M	Alpha	N/A	
Client Middle Name	25	O	Alpha	Spaces	
Client Gender	1	M	Alpha	N/A	F=Female; M=Male; U=Unknown
Client Race	1	M	Alpha	N/A	A=Asian; B=Black; H=Hispanic; I=North American Indian; N=Negro; O=Other; U=Unknown; W=White (SVES Codes with slight verbiage modification)
Client Ethnicity	1	M	Alpha	N/A	H=Hispanic; N=Non Hispanic; U=Unknown
Client SSN	9	M	Alpha Numeric	Spaces	
Client SSN Type Indicator	1	M	Alpha	N/A	A=Actual; P=Pseudo; D=Default
Client DOB	8	M	Numeric	Zeros	CCYYMMDD
Client DOB Type Indicator	1	M	Alpha	N/A	A=Actual; P=Pseudo; D=Default
Client Eligible Indicator	1	M	Alpha	N/A	Y=Yes or N=No; States should ONLY include clients in the case that were eligible/included in the SNAP/D-SNAP budget for the benefit month AND benefit was issued; if benefit is subsequently cancelled prior to availability date of benefit, States should immediately contribute an updated record for each client with N=No for that benefit month to prevent any false identification of dual participation
Client Eligible Status Date	8	M	Numeric	N/A	CCYYMMDD; eligibility begin or end date depending on Client Eligible Indicator (Y or N)
Client Phone	10	O	Numeric	Zeros	
Client Email	256	O	Alpha Numeric	Spaces	
"STATE" Variables					
State Contact Name	50	O	Alpha Numeric	Spaces	
State Contact Phone	10	O	Numeric	Zeros	
State Contact Phone Extension	10	O	Alpha Numeric	Spaces	
State Contact Email	256	O	Alpha Numeric	Spaces	
Filler	52	O	Alpha Numeric	Spaces	
NAC Contributory File Length:		1550			

Notes:

Alpha "Type" variables should be left-justified and padded (right) with spaces.
Alpha Numeric "Type" variables should be left-justified and padded (right) with spaces.
Numeric "Type" variables should be right-justified and padded (left) with zeroes.
N/A "Default Value" means data is required for this variable (not spaces or zeroes).

NCF Data Definition:

The daily NCF should include **ALL** clients that are considered "certified" Household Members in a case **AND** included in the SNAP/D-SNAP budget for any benefit month (**current month or prior month**) where a benefit issued during the prior processing period; if a benefit is cancelled prior to its availability date, States should send an updated record on the next NCF for each client with the Client Eligible Status Indicator set to "**N=NO Benefit Received**" for that benefit month to prevent any false identification of dual participation.

Exhibit SNAP-15: NAC Interface File Formats

The NCF (**NAC Contribution Files**) are ingested, analyzed, and verified to be made part of the NAC database. As part of this process, the NCF process produces two response files that are returned to the contributing state as the method for reporting the content and quality of the contributions.

- **NCD** – In computer-readable format, albeit still readable, with one row per reportable element
- **NCR** – In human-readable report format, with column headings and other information

NAC Contribution Data (NCD)

Unlike the **NCR**, the **NCD** has no header or footer, no totaled or counted columns, and contains a row for each value to be conveyed to the contributor. Depending upon the purpose, not all fields are used in every record, and some fields have multiple purposes, dependent upon the record and/or code type, to avoid excessive waste of space while maintaining consistent record structure throughout. Also, some numeric fields may be populated with zeroes even though not applicable to that particular row.

NCD Definition

Field	Type	Len	Description	Example
Record Type	Alpha	1	Contribution, Field, Record	F
Filler	Alpha	2	Blanks	
Code	Alpha	4		2011
Filler	Alpha	2	Blanks	
Code Value	Alpha	4		W003
Filler	Alpha	2	Blanks	
Description	Alpha	40		Case_Physical_Address_Street_1
Filler	Alpha	2	Blanks	
Code Count	Numeric	12		000000000026
Filler	Alpha	2	Blanks	
Code Percent	Alpha	7		000.672
Percent Sign	Alpha	1	% (for readability)	%
Filler	Alpha	2	Blanks	
Sample	Numeric	12		000000000398
Filler	Alpha	2	Blanks	
Sample Value	Alpha	80		HOMELESS
	Total Length	175		

Exhibit SNAP-15: NAC Interface File Formats

NCD Sample

C	1001	File Name	000000000000	000.000%	000000000000	FL_NCF_20140320_170001.dat
C	1002	File Accepted	000000000000	000.000%	000000000000	YES
C	1003	Total Records	000000048618	000.000%	000000000000	
C	1004	Accepted Records	000000048611	99.986%	000000000000	
C	1005	Rejected Records	000000000007	000.014%	000000000000	
C	1098	Warnings	000000001441	000.000%	000000000000	
C	1099	Errors	000000000137	000.000%	000000000000	
F	2011	W003 Case_Physical_Address_Street_1	000000000478	000.983%	000000012424	HOMELESS
F	2011	W003 Case_Physical_Address_Street_1	000000000173	000.356%	000000047627	GENERAL DELIVERY
F	2011	W004 Case_Physical_Address_Street_1	000000000005	000.010%	000000016905	02 OCEANS WEST BLVD.
F	2011	W003 Case_Physical_Address_Street_1	000000000004	000.008%	000000031538	
F	2013	W003 Case_Physical_Address_City	000000000006	000.012%	000000031538	
F	2014	W003 Case_Physical_Address_State	000000000006	000.012%	000000031538	
F	2015	W003 Case_Physical_Address_Zip	000000000006	000.012%	000000031538	
F	2016	W003 Case_Mailing_Address_Street_1	000000000066	000.136%	000000012424	HOMELESS
F	2016	W003 Case_Mailing_Address_Street_1	000000000051	000.105%	000000047627	GENERAL DELIVERY
F	2016	W003 Case_Mailing_Address_Street_1	000000000006	000.012%	000000016994	
F	2016	W004 Case_Mailing_Address_Street_1	000000000005	000.010%	000000016905	02 OCEANS WEST BLVD.
F	2018	W003 Case_Mailing_Address_City	000000000007	000.014%	000000016994	
F	2019	W003 Case_Mailing_Address_State	000000000007	000.014%	000000025817	
F	2020	W003 Case_Mailing_Address_Zip	000000000007	000.014%	000000025817	
F	2023	E002 Client_Identifier	000000000007	000.014%	000000031538	
F	2024	E005 Client_Last_Name	000000000007	000.014%	000000025817	
F	2025	E004 Client_First_Name	000000000007	000.014%	000000025817	
F	2027	W003 Client_Gender	000000000007	000.014%	000000025817	
F	2028	W003 Client_Race	000000000007	000.014%	000000031538	
F	2029	W003 Client_Ethnicity	000000000007	000.014%	000000031538	
F	2031	W003 Client_SSN_Type_Indicator	000000000007	000.014%	000000025817	
F	2032	W003 Client_DOB	000000000007	000.014%	000000025817	
F	2033	W003 Client_DOB_Type_Indicator	000000000007	000.014%	000000031538	
F	2034	W003 Client_Eligible_Status_Indicator	000000000007	000.014%	000000025817	
F	2035	W003 Client_Eligible_Status_Date	000000000007	000.014%	000000025817	
F	2035	W003 Client_Eligible_Status_Date	000000000001	000.002%	000000008787	000000000
F	2036	W003 Client_Phone	000000000007	000.014%	000000031538	
R	3001	E003 Case Physical Zip/Mailing Zip	000000000070	000.144%	000000013187	HOMELESS/32720-HOMELESS/32720
R	3001	E003 Case Physical Zip/Mailing Zip	000000000040	000.082%	000000003162	GENERAL DE/32763-GENERAL
DE/32763						
R	3001	E003 Case Physical Zip/Mailing Zip	000000000004	000.008%	000000026187	/-/
R	3001	E003 Case Physical Zip/Mailing Zip	000000000001	000.002%	000000039048	6700 1ST A/-/
R	3001	E003 Case Physical Zip/Mailing Zip	000000000001	000.002%	000000012156	19029 US H/-/
R	3002	W001 Case Physical Zip	000000000541	001.113%	000000016920	-HOMELESS/33136-
R	3003	W002 Case Mailing Zip	000000000008	000.016%	000000006698	-GENERAL DE/33461-
R	3006	W008 Client Eligibility Indicator / Date	000000000001	000.002%	000000008787	-E/00000000-
C	9999	End of Report	000000000000	000.000%	000000000000	

NAC Contribution Report (NCR)

NCR Example

Exhibit SNAP-15: NAC Interface File Formats

FL_NCF_20140320_170001.dat							NCF File Name
===== FIELD MESSAGES =====							
SMP REC#	FIELD	SAMPLE DATA	MESSAGE	COUNT	PCT		
5124	Case Physical Address Street_1	SS	W003	478	0.983%		Record Number of Sample Record
5195	Case Physical Address Street_1	GENERAL DELIVERY	W003	173	0.355%		
2390	Case Mailing Address Street_1			66	0.135%		Field name/description
5195	Case Mailing Address Street_1	GENERAL DELIVERY	W003	51	0.104%		
4010	Case Mailing Address Zip		W003	7	0.014%		
4010	Client SSN Type Indicator		W003	7	0.014%		
4010	Client Phone		W003	7	0.014%		
4010	Client Identifier		E002	7	0.014%		Error/Warning Code
4010	Case Mailing Address City		W003	7	0.014%		
4010	Case Mailing Address State		W003	7	0.014%		
4010	Client Race			7	0.014%		Error/Warning Record Count
4010	Client DOB Type Indicator		W003	7	0.014%		
4010	Client Last Name		E005	7	0.014%		
4010	Client DOB			7	0.014%		Percentage of Records with Error/Warning
4010	Client Eligible Status Date		W003	7	0.014%		
4010	Client Ethnicity		W003	7	0.014%		
4010	Client Gender		W003	7	0.014%		
4010	Client First Name		E004	7	0.014%		
4010					0.014%		
4010					0.012%		
4010	Case Physical Address State		W003	6	0.012%		
4010	Case Physical Address Zip		W003	6	0.012%		
4010	Case Mailing Address Street_1		W003	6	0.012%		
17441	Case Mailing Address Street_1	01 NE 78TH ST # 09	W004	5	0.010%		Sample data from Sample Record
4010	Case Physical Address Street_1	01 NE 78TH ST # 09	W004	5	0.010%		
8787	Client Eligible Status Date	00000000	W003	4	0.008%		
				1	0.002%		
===== RECORD MESSAGES =====							
SMP REC#	FIELD	SAMPLE DATA	MESSAGE	COUNT	PCT		
16920	PHY				0.112%		
2390	PHY				0.143%		
3162	PHY/Z-MAI/Z	GENERAL DE/52765-GENERAL DE/52765	E003	40	0.082%		Record/Multi-Field Errors & Warnings
6698	MAI/Z	-GENERAL DE/33461-	W002	8	0.016%		
26187	PHY/Z-MAI/Z		E003	4	0.008%		Field combination with issue
8787	IND/DTE	-E/000000000-	W008	1	0.002%		
39048	PHY/Z-MAI/Z	6700 1ST A/-/			0.002%		Sample from fields, separated by "/"
12156	PHY/Z-MAI/Z	19029 US H/-/	E003	1	0.002%		
TOTAL RECORDS 48618							
TOTAL ERRORS 137							Total Count of Errors & Warnings
TOTAL WARNINGS 1441							(not total records with errors & warnings)
FILE CONTENT IS ACCEPTABLE. **** FILE WILL BE PROCESSED *****							
FILE CONTENT IS ACCEPTABLE. **** FILE WILL BE PROCESSED *****							
FILE CONTENT IS ACCEPTABLE. **** FILE WILL BE PROCESSED *****							
LEGEND							
=====							
E001 = ERROR - NO CASE IDENTIFIER WAS PROVIDED							
(additional legend rows omitted for sample)							

The Match Request File (MRF) batch file contains the NAC request data from a State. The table below outlines the MRF definition:

Exhibit SNAP-15: NAC Interface File Formats

Match Request File (MRF) Definition

#	Variable Name	Len	Variable Description
1	Request Record ID	20	Optional, for requestor tracking or link-back, if desired
2	Search Case ID	20	Optional, for link-back to requestor data; prevents matching this record
3	Search Client ID	20	Optional, for link-back to requestor data; prevents matching this record
4	Search Benefit Type	1	Benefit type to match
5	Search Benefit Month	6	Benefit month to match (CCYYMM)
6	Search Full Name	60	Allows for full name searches, if desired, in lieu of parsed name fields
7	Search Last Name	30	
8	Search First Name	25	
9	Search Middle Name	25	
10	Search Suffix	5	Allows for separate name suffix field, if desired
11	Search SSN	9	SSN of client
12	Search DOB	8	DOB of client
13	Search Address 1 Street Address 1	70	Address of client (mailing or physical)
14	Search Address 1 Street Address 2	70	
15	Search Address 1 City	30	
16	Search Address 1 State	2	
17	Search Address 1 Zip	9	
18	Search Address 2 Street Address 1	70	Address of client
19	Search Address 2 Street Address 2	70	
20	Search Address 2 City	30	
21	Search Address 2 State	2	
22	Search Address 2 Zip	9	
23	Include Twelve Month History	1	Whether Search Match hits should include 12-month history
	Total Record Length	592	

The Match Request Response (MRR) file contains the NAC response data from a previously MRF by a State. The table below outlines the MRR file definition:

Exhibit SNAP-15: NAC Interface File Formats

Match Request Response (MRR) File Definition

#	Variable Name	Len	Type	Variable Description	Input
1	Activity Type	1	Numeric	Will be "2"	
2	Batch Job ID	8	Alpha Numeric	LN Batch Job ID	
3	Batch File Name	40	Alpha Numeric	Original MRF input filename	
4	Batch Record Number	10	Numeric	Original batch record number	
5	Request Record ID	20	Alpha Numeric	MRF Input	1
6	Search Case ID	20	Alpha Numeric		2
7	Search Client ID	20	Alpha Numeric		3
8	Search Benefit Type	1	Alpha		4
9	Search Benefit Month	6	Numeric		5
10	Search Full Name	60	Alpha		6
11	Search Last Name	30	Alpha		7
12	Search First Name	25	Alpha		8
13	Search Middle Name	25	Alpha		9
14	Search Suffix	5	Alpha		10
15	Search SSN	9	Numeric		11
16	Search DOB	8	Numeric		12
17	Search Address 1 Street Address 1	70	Alpha Numeric		13
18	Search Address 1 Street Address 2	70	Alpha Numeric		14
19	Search Address 1 City	30	Alpha		15
20	Search Address 1 State	2	Alpha		16
21	Search Address 1 Zip	9	Numeric		17
22	Search Address 2 Street Address 1	70	Alpha Numeric		18
23	Search Address 2 Street Address 2	70	Alpha Numeric		19
24	Search Address 2 City	30	Alpha		20
25	Search Address 2 State	2	Alpha		21
26	Search Address 2 Zip	9	Numeric		22
27	Include Twelve Month History	1	Alpha		23
28	Query Status	4	Alpha Numeric	If error condition, code here	
29	Query Status Message	70	Alpha Numeric	If error condition, description here	
30	Case State	2	Alpha	NCF Layout	

Exhibit SNAP-15: NAC Interface File Formats

#	Variable Name	Len	Type	Variable Description	Input
31	Case Benefit Type	1	Alpha		
32	Case Benefit Month	6	Numeric		
33	Case ID	20	Alpha Numeric		
34	Case Last Name	30	Alpha		
35	Case First Name	25	Alpha		
36	Case Middle Name	25	Alpha		
37	Case Phone1	10	Numeric		
38	Case Phone2	10	Numeric		
39	Case Email	256	Alpha Numeric		
40	Case Physical Street 1	70	Alpha Numeric		
41	Case Physical Street 2	70	Alpha Numeric		
42	Case Physical City	30	Alpha		
43	Case Physical State	2	Alpha		
44	Case Physical Zip	9	Numeric		
45	Case Mail Street 1	70	Alpha Numeric		
46	Case Mail Street 2	70	Alpha Numeric		
47	Case Mail City	30	Alpha		
48	Case Mail State	2	Alpha		
49	Case Mail Zip	9	Numeric		
50	Case County Parish Code	3	Alpha Numeric		
51	Case County Parish Name	25	Alpha		
52	Client ID	20	Alpha Numeric		
53	Client Last Name	30	Alpha		
54	Client First Name	25	Alpha		
55	Client Middle Name	25	Alpha		
56	Client Gender	1	Alpha		
57	Client Race	1	Alpha		
58	Client Ethnicity	1	Alpha		
59	Client SSN	9	Alpha Numeric		
60	Client SSN Type	1	Alpha		
61	Client DOB	8	Numeric		
62	Client DOB Type	1	Alpha		
63	Client Eligibility Status	1	Alpha		

Exhibit SNAP-15: NAC Interface File Formats

#	Variable Name	Len	Type	Variable Description	Input
64	Client Eligibility Date	8	Numeric		
65	Client Phone	10	Numeric		
66	Client Email	256	Alpha Numeric		
67	State Contact Name	50	Alpha Numeric		
68	State Contact Phone	10	Numeric		
69	State Contact Phone Extension	10	Alpha Numeric		
70	State Contact Email	256	Alpha Numeric		
71	LexID Score	3	Numeric	If LexID was used to match, the confidence score	
72	Match Codes	10	Alpha Numeric	Codes for fields that matched the search	
73	Twelve Month History	84	Alpha Numeric	If 12-month history requested, comma-separated list	
74	Sequence Number	4	Numeric	If multiple matches, sequence number within results	
	Total Record Length	2324			