

	Operational Assumptions
1	Assignment files are not processed without receipt of a transmittal from the GA
	Functional Assumptions
1	Loan assignment files must be sent with the proper SAIG Header information.

7.2 Dependencies

#	Dependencies
1	Loan collateral must be provided for each assignment loan.
2	DMCS is dependent on SAIG to exchange files with the GAs.

7.2.1 Acronyms and Abbreviations

Acronym	Definition
DMCS	Debt Management and Collections System
FSA	(U.S. Department of Education, Office of) Federal Student Aid
GA	Guaranty Agency

7.2.2 Glossary

Term	Definition
No Cap	A debt that has no limit on the collection cost fee that can be assessed.
Transmittal	A email that notifies DMCS that an assignment file has been sent by a GA.

7.2.3 References

Originating Agency (Positions 2-6 of the Header record):

This is the 5-character code assigned by the Department of Education (ED) to identify individual Guaranty Agencies (GAs). No other codes are valid. The codes for GAs are listed below:

Agency Code	Agency
CA706	California
CO708	Colorado
CT709	Connecticut
FL712	Florida
IL717	Illinois

KY721	Kentucky
LA722	Louisiana
MA725	Massachusetts
ME723	Maine
MI726	Michigan
MO729	Missouri
NB731	Nebraska
NC737	North Carolina
NH733	New Hampshire
NJ734	New Jersey
NM735	New Mexico
NY736	New York
OK740	Oklahoma
PA742	Pennsylvania
SD746	South Dakota
SM927	Educational Credit Management Corp
TX748	Texas II
UF800	USA Funds
UT749	Utah
VT750	Vermont
WA753	Washington
WI755	Wisconsin

7.2.4 File / Debt Edits [Error Code]

File-level Edits:

Edit Performed	Error #
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At least one Header record must be present on the file.	0210
At least one Detail record must be present on the file.	0211
At least one Trailer record must be present on the file.	0212
One SAIG Header record must be present on the file.	0213
One SAIG Batch Header must be present on the file.	0214
One SAIG Trailer must be present on the file.	0215
The Detail Record Count must match the count provided in the Trailer Record Count.	0216
The GA Code provided in the header record must be a valid Servicer Code.	0217
The Servicer Code provided in the header record must be a valid Servicer Code.	0218
The sum of the Outstanding Loan Origination Fee in all detail records must match the Outstanding Loan Origination Fee Grand Total in the trailer record.	0219
The sum of the Outstanding Capitalized Interest in all detail records must match the Outstanding Capitalized Interest Grand Total in the trailer record.	0219
The sum of the Outstanding Administrative Fees in all detail records must match the Outstanding Administrative Fees Grand Total in the trailer record.	0219
The sum of the Outstanding Miscellaneous Fees in all detail records must match the Outstanding Miscellaneous Fees Grand Total in the trailer record.	0219
The sum of the Outstanding Collection Agency Fees in all detail records must match the Outstanding Collection Agency Fees Grand Total in the trailer record.	0219
The sum of the Outstanding TOP Fees in all detail records must match the Outstanding TOP Fees Grand Total in the trailer record.	0219
The sum of the Outstanding Interest Amount in all detail records must match the Outstanding Interest Amount Grand Total in the trailer record.	0219
The sum of the Outstanding Principal Amount in all detail records must match the Outstanding Principal Amount Grand Total in the trailer record.	0219
The sum of the Outstanding Disbursement Amount in all detail records must match the Outstanding Disbursement Amount Grand Total in the trailer record.	0219
The sum of the Outstanding Penalty Fee in all detail records must match the Outstanding Penalty Fee Grand Total in the trailer record.	0219

Debt-level Edits:

Edit Performed	Error #
The GA must provide a promissory note for each assigned debt.	0001
The Promissory Note received for the debt must be valid.	0002
The Borrower Name received on the assignment must match the Borrower Name on the promissory note.	0003
The Amount of Disbursement must be provided on the promissory note.	0004
The Amount of Disbursement must match the Amount of Disbursement on the promissory note.	0005
A Litigation Document must be provided when applicable	0007
The Current Principal Balance must be greater than or equal to \$1.	0008
The assignment file must contain only a valid and printable characters.	0009
The number of loans submitted must equal the number of promissory notes.	0010
The Borrower Current Last Name must begin with an alphabetic character.	0012
The Borrower Current First Name must begin with an alphabetic character.	0013
The Disbursement Record Document must be provided by the assigning agency.	0014
The Borrower Street Address 2 must contain a value (foreign city) if Borrower State equals 'FC'.	0015
The Borrower City must contain a value (foreign country) if Borrower State equals 'FC'.	0016
<p>The Borrower State abbreviation must be one of the following values:</p> <ul style="list-style-type: none"> • Valid US State code, • Blank, or • 'FC'. 	0017
The Borrower Zip Code must be zeros when the Borrower State equals 'FC'.	0020
The Borrower Work Phone must be greater than zero or blank.	0021
The Borrower Home Phone must be greater than zero or blank.	0022
The Borrower Birth Date must be a valid date in CCYYMMDD format.	0023
The Borrower Birth Date must be at least 10 years prior to the Date of Loan Guaranty/ Date of First Disbursement.	0024

The Date of Loan Guaranty must be prior to 10/01/2010.	0025
The Date of Loan Guaranty must be a valid date in CCYYMMDD format.	0025
The Date of Loan Guaranty must be on or after November 8, 1965 ('19651108').	0026
The Date of Loan Guaranty must be prior to the Date of Default.	0027
The Amount of Disbursement must be numeric.	0028
The Amount of Disbursement must be greater than zero.	0029
The Current Interest Rate must be a numeric value.	0030
The Current Principal Balance must be a numeric value.	0033
The Current Principal Balance must be less than or equal to the sum of Amount of Disbursement and Interest Capitalized by Lender and/or Federal Servicer, except for instances of a rehabilitated loan or judgement account.	0034
The Current Interest Balance must be a numeric value.	0035
The Current Treasury Offset Fees are numeric values.	0036
The Current Collection fees must be numeric values.	0037
The Current Miscellaneous Fees must be numeric values.	0038
The Current Administrative Fees must be numeric values.	0039
The Current P must be numeric values.	0040
The Date Opened for Credit Bureau Reporting must be a valid date in CCYYMMDD format.	0041
The Date Open for Credit Bureau Reporting must be on or after the Date Claim Paid to Lender.	0042
The Current Balance Date must be a valid date in CCYYMMDD format.	0043
The Last Lender ID Number must be a numeric value.	0044
The Last Lender ID Number must be a valid Lender ID.	0045
The Original Lender ID Number must be a numeric value.	0046
The Original Lender ID Number must be a valid Lender ID.	0047
The School ID must be numeric.	0048

The School ID must be a valid value.	0049
The Date of Withdrawal must be a valid date in CCYYMMDD format.	0050
The Date of Loan Guaranty must be on or before the Date of Withdrawal + 180 days, except for PLUS, GPLS, or CONS loans.	0051
The Date of Default must be a valid date in CCYYMMDD format and can only be zero filled when the Ineligible Borrower Indicator equals 'F' and the loan is not defaulted.	0052
The Principal Amount Paid to Lender by GA must be a numeric value.	0054
The Principal Amount Paid to Lender by GA must be greater than zero when the Date Claim Paid to Lender is a valid date.	0055
The School ID cannot be zero filled or 000100 .	0056
The Interest Paid to Lender by GA must be a numeric value.	0057
The Date Claim Paid to Lender must be a valid date in CCYYMMDD format.	0058
The Date Claim Paid to Lender must be greater than the Date of Default.	0059
The Interest Capitalized by GA, Lender, and/or Federal Servicer must be a numeric value.	0060
The Amount Collected by Federal Servicer must be a numeric value.	0061
The Date of Last Payment to Federal Servicer must be a valid date in CCYYMMDD format.	0062
The Date of Last Payment to GA must be prior to the Date Claim Paid to Lender.	0063
The Date of Last Disbursement must be a valid date in CCYYMMDD format.	0064
The Date of Last Disbursement must prior to the Date of Default, except for PLUS or GPLS loans.	0065
The Date of Last Disbursement must be on or after the Date of First Disbursement.	0066
The Judgement Indicator must equal 'Y' or 'N'.	0067
The Date of Judgement must be a valid date in CCYYMMDD format, when the Judgement Indicator equals 'Y'.	0068
The Date of Judgement must be zero filled, when Judgement Indicator equals 'N'.	0069
The Judgement Expiration Date must be a valid date in CCYYMMDD format, when the Judgement Indicator equals 'Y'.	0070
The Judgement Expiration Date must be zero filled when Judgement Indicator equals 'N'.	0071

The Date of First Treasury Offset Certification must be a valid date in CCYYMMDD format.	0072
The Loan Type must be 'PLUS', 'GPLS', 'SLS', 'CONS', 'SFY', 'SFN', or 'SUU'.	0073
The PLUS Student SSN must be valid when Loan Type equals one of the following values: <ul style="list-style-type: none"> • 'PLUS', • 'GPLS' • 'DSLPL', or • 'DSLGL'. 	0074
The PLUS Student SSN must be blank when Loan Type is NOT equal to one of the following values: <ul style="list-style-type: none"> • 'PLUS', • 'GPLS' • 'DSLPL', or • 'DSLGL'. 	0075
The PLUS Student Name Type must equal '1' when Loan Type equals one of the following values: <ul style="list-style-type: none"> • 'PLUS', • 'GPLS' • 'DSLPL', or • 'DSLGL'. 	0076
The PLUS Student Name Type must be blank when Loan Type equals something other than one of the following values: <ul style="list-style-type: none"> • 'PLUS', • 'GPLS' • 'DSLPL', or • 'DSLGL'. 	0077
The PLUS Student Last Name must begin with an alphabetic character when Loan Type equals one of the following values: <ul style="list-style-type: none"> • 'PLUS', • 'GPLS' • 'DSLPL', or • 'DSLGL'. 	0078
The PLUS Student Last Name must be blank when Loan Type equals something other than one of the following values: <ul style="list-style-type: none"> • 'PLUS', 	0079

<ul style="list-style-type: none"> • 'GPLS' • 'DSLPL', or • 'DSLGL'. 	
<p>The PLUS Student First Name must begin with an alphabetic character when Loan Type equals one of the following values:</p> <ul style="list-style-type: none"> • 'PLUS', • 'GPLS' • 'DSLPL', or • 'DSLGL'. 	0080
<p>The PLUS Student First Name must be blank when Loan Type equals something other than one of the following values:</p> <ul style="list-style-type: none"> • 'PLUS', • 'GPLS' • 'DSLPL', or • 'DSLGL'. 	0081
<p>The Cosigner SSN must meet one of the following conditions:</p> <ul style="list-style-type: none"> • SSN equals zeros, • SSN is blank, or • SSN is not the same SSN as primary. 	0082
<p>The Cosigner Last Name begins with an alphabetic character when the Cosigner SSN is valid or equal to zero.</p>	0083
<p>The Cosigner First Name must begin with an alphabetic character when Cosigner SSN is valid or equal to zero.</p>	0084
<p>The Cosigner State Code must meet one of the following conditions, when a cosigner exists:</p> <ul style="list-style-type: none"> • State Code is valid, • State Code is blank, or • State Code equals 'FC'. 	0085
<p>The Cosigner Street Address (2) must contain a foreign city when Cosigner State equals 'FC'; otherwise, Street Address (2) can be blank.</p>	0086
<p>The Cosigner City must contain a foreign country when Cosigner State equals 'FC'; otherwise, Cosigner City can be blank.</p>	0087
<p>The PLUS Student Birth Date must contain spaces, when Loan Type is not one of the following values:</p>	0089

<ul style="list-style-type: none"> • 'PLUS', • 'GPLS' • 'DSLP', or • 'DSLGL'. 	
The Cosigner Zip Code must equal zero when Cosigner State equals 'FC'.	0090
The Cosigner Work Phone must be greater than zero or blank.	0091
The Cosigner Home Phone must be greater than zero or blank.	0092
The Cosigner Birth Date must be a valid date in CCYYMMDD format.	0093
<p>The Reference 1 Type must equal one of the following values:</p> <ul style="list-style-type: none"> • 'PAR', • 'REL', • 'OTH', • 'FRI', • 'EMP', • 'COS', or • blank. 	0094
The Current Balance Date must be on or after the Date of Last Payment to Federal Servicer.	0095
The Variable Interest Add-On Rate must be a numeric value.	0097
The PLUS SSN must be different than the Borrower SSN, when Loan Type equals 'PLUS'.	0098
The PLUS Student SSN must match the Borrower SSN when Loan Type equals 'GPLS'.	0099
The OPE ID must be a valid value, as defined on the PEPS file.	0100
The OPE ID must be '88888800' when the Loan Type is CONS, DSCP, DSCS, or DSCU.	0101
<p>The Reference 2 Type equals one of the following values:</p> <ul style="list-style-type: none"> • 'PAR', • 'REL', • 'OTH', • 'FRI', • 'EMP', • 'COS', or 	0105

<ul style="list-style-type: none"> • blank. 	
The Borrower Last Name matches ED data base Research name and/or SSN.	0116
The Borrower First Name matches ED data base Research name and/or SSN.	0117
<p>The debt must not be a duplicate of a debt that already exists on data base, based on the following field values:</p> <ul style="list-style-type: none"> • Borrower SSN, • Disbursement Amount, • Last Disbursement Date, • OPEID, • Indicator of Separate Loan, and • Loan Type. 	0119
<p>The debt must not be a duplicate of a debt that already exists in the input data, based on the following field values:</p> <ul style="list-style-type: none"> • Borrower SSN, • Disbursement Amount, • Last Disbursement Date, • OPEID, • Indicator of Separate Loan, and • Loan Type. 	0121
The Amount of Disbursement must be less than or equal to \$1,000,000.00 excluding consolidation loans (Loan Type 'CONS', 'DSCS', 'DSCU', or 'DSCP').	0123
The Current Interest Balances must be less than or equal to the Current Interest Balance limit.	0124
<p>The Current Interest Balance limit is less than or equal to the Disbursement Amount multiplied by (*) 5, when Judgement Indicator equals 'Y' and Loan Type equals one of the following values:</p> <ul style="list-style-type: none"> • 'PLUS', • 'SFN', • 'SUU', • 'SFY', • 'CONS', • 'SLS', or • 'GPLS'. 	0124
The Treasury Fees amount must be less than or equal to \$150.	0125

The Collection Fees amount must be less than or equal to the Disbursement Amount.	0126
The Miscellaneous Fees amount must be less than or equal to half of the Disbursement Amount.	0127
The Administrative Fees amount must be less than or equal to half of the Disbursement Amount.	0128
The Penalty Fees amount must be less than or equal to \$500.	0129
The Date of Withdrawal must be zero when the Loan Type is one of the following values: <ul style="list-style-type: none"> • 'CONS', • 'FISL', • 'DSCS', • 'DSCU', or • 'DSCP'. 	0132
The Date of Withdrawal must equal the Date of Last Disbursement when Loan Type is one of the following values: <ul style="list-style-type: none"> • 'PLUS', • 'GPLS' • 'DSLPL', or • 'DSLGL'. 	0133
The Principal Amount Paid to Lender by GA is less than or equal to the Amount of Disbursement plus (+) Interest Capitalized by the GA and/or Lender.	0135
The Interest Paid amount, for FFEL loans, must be less than or equal to the Disbursement Limit.	0136
The Date Entered Repayment must be the same as the Date of Last Disbursement when Loan Type equals 'PLUS' or 'GPLS'.	#0137
The 'Interest Capitalized by GA, Lender and/or Federal Servicer' amount must be less than or equal to the Disbursement Limit for FFEL loans when the Judgement Indicator is 'Y'.	0138
The GA loan assignment file 'Interest Capitalized by GA, Lender and/or Federal Servicer' amount must be less than the Disbursement Limit for FFEL loans when the Judgement Indicator is 'N'.	0138
The GA loan assignment file 'Interest Capitalized by GA, Lender and/or Federal Servicer' amount must be less than or equal to the Disbursement Limit for Direct loans when seven (7) or fewer years have passed between the current year and the Award year.	0138
The GA loan assignment file Amount Collected by Servicer must be less than or equal to \$400,000.	0139
The Amount Collected by Servicer must be greater than zero when the Date of Last Payment to Servicer is greater than zero.	0140

The Date Entered Repayment must equal Date of First Disbursement when Loan Type is CONS .	0141
The Date of Last Payment to Servicer must be greater than zero when the Amount Collected by Servicer is greater than zero.	0142
The Date of Loan Guaranty must be on or prior to the Date of First Disbursement.	0143
If the Litigation Flag is 'Y', the Date of Judgement must be greater than the Default Date.	0144
The Judgement Expiration Date must zero or must be on or after the Date of Judgement.	0145
The Date of First Treasury Offset Certification must be greater than or equal to 19851201 or zero.	0146
The Cosigner Birth Date must be at least 10 years prior to the Date of Loan Guaranty/Date of First Disbursement.	0147
The School ID Number must be 088888 for a CONS Loan Type.	0148
None of the debts for an account may be duplicated on the data base or input file (based on receiving an 0119 or 0121 error).	0149
The Current Balance Date must be on or after the Date Claim Paid to Lender.	0150
The PLUS Student's Birth Date must be at least 10 years prior to the Date of Loan Guaranty/Date of First Disbursement.	0151
The Date of First and Last Disbursement must be less than or equal to 180 days after the Date of Withdrawal, except for within the following Loans: <ul style="list-style-type: none"> • 'PLUS', • 'GPLS', or • 'DSLPL'. 	0152
The PLUS Student's Birth Date must be a valid date in CCYYMMDD format.	0153
All dates, except for Judgement Expiration Date, must be prior to the Current Date.	0154
The Date of Withdrawal must be on or after November 8, 1965 ('19651108').	0155
The Indicator of Separate Loan must equal a value between 'A' and 'Z'.	0156
The Mail Delivery Indicator must equal 'U' or 'D'.	0157
The Interest Deduction Months must be a numeric value.	0158
For FFEL loans, the Amount of Loan Guaranty, must be greater than or equal to the Amount of Disbursement.	0159

The Amount of Loan Guaranty must be a numeric value.	0160
The Amount of Loan Guaranty must be less than or equal to the Amount of Loan Guaranty Limit.	0161
The Current Interest Rate Type must equal one of the following values: <ul style="list-style-type: none"> • 'F' (fixed), • '8' (8-10% balloon rate), • 'A' (variable based on 91-day T-Bill rate), or • 'B' (variable based on 52-week T-Bill rate). 	0162
The Interest Rate must be a numeric value.	0163
The Interest Rate must a valid rate for the Loan Type / Disbursement Date combination, except when the loan has a judgement.	0163
The Variable Interest Add-On Rate must be a numeric value.	0164
The Variable Interest Add-On Rate must be a valid value for Loan Type / Disbursement Date combination, except when the loan has a judgement.	0164
The Interest Rate Type must be a valid rate type for the Loan Type / Disbursement Date combination, except when the loan has a judgement.	0165
The Interest Rate Cap must be a numeric value.	0167
The Interest Rate Cap must be a valid value for the combination of Loan Type and Disbursement Date, except when the loan has a judgement.	0167
The Interest Rate Cap must be a numeric value.	0173
The Date of First Disbursement must be a valid date in CCYYMMDD format.	0174
The FDP Indicator value must equal 'Y' or 'N'.	0175
The Date Entered Repayment must be a valid date and in CCYYMMDD format.	0176
The Electronically Signed Note Indicator value must equal 'Y' or 'N' for a FFEL or Direct Loan that was not previously on DMCS/DMCS2.	0180
The promissory note must be signed electronically if the Electronically Signed Note Indicator is Y.	0181
The promissory note cannot be signed electronically if the Electronically Signed Note Indicator is N.	0182
The Entity in Possession of Original Electronic Note must be blank for a FFEL loan, when Electronically Signed Note Indicator equals 'N'.	0183
For FFEL loans, the Entity in Possession of Original Electronic Note must have a value when the	0184

Electronically Signed Note Indicator is 'Y'.	
The Outstanding Capitalized Interest must be a numeric value.	0185
The Outstanding Capitalized Interest amount must be less than or equal to the Principal Balance.	0186
The Outstanding Capitalized Interest must be zero when the Date of Last Disbursement is prior to September 1, 2004 ('20040901').	0187
The Outstanding Loan Origination Fee must be a numeric value.	0188
The Outstanding Loan Origination Fee amount must be less than or equal to the Principal Balance.	0189
The Outstanding Loan Origination Fee must be zero when the Date of Last Disbursement is prior to September 1, 2004 ('20040901').	0190
The Ineligible Borrower Indicator must equal 'I', 'F', or space.	0191
<p>The Rehabilitation Indicator must be one of the following values:</p> <ul style="list-style-type: none"> • 'N' - The loan has not been previously rehabilitated • 'Y' - The loan was previously rehabilitated on or after 8/14/2008 • 'E' - The loan was previously rehabilitated prior to 8/14/2008. 	0192
The total number of debts with errors must not exceed the error threshold of 99.9%.	0193

**DMCS Guaranty Agency Treasury Offset
Process
Interface Control Document**

Version 1.3 • ~~11/19/2018~~ 5/7/2020

Final

Contractual

Submitted by: MAXIMUS Federal Services

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Formal

Document Version Control

Version	Date	Author	Description
1.0	7/17/2018	Chitra Sundar	Initial version
1.1	10/16/2018	Chitra Sundar	Updated frequency for TOP Address Request/Return and Pre-Offset Request Summary Error Report File. Also includes updates to the TOP GA Pre-Offset Address Request file Control record.
1.2	11/19/2018	Chitra Sundar	Added "5" after the "C" on page 28, TOP GA Weekly Update File Format, position 35.
<u>1.3</u>	<u>05/07/2020</u>	<u>Chitra Sundar</u>	<u>Updated based on CR 5198 – Remove SSN from TOP Debt Number</u>

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Section 1. Interface Control Specification

Table 1-1 Interface Description

Interface Name	Treasury Offset Process (TOP) Files
Interface Type	Bi-Directional
Interface Short Description	<p>This document defines the processes used by DMCS and the Guaranty Agencies (GA) to exchange Treasury Offset Process (TOP) files. TOP is the process through which Federal payments (other than salaries) may be offset by Treasury to satisfy a borrower's debt.</p> <p>The TOP data files are exchanged between DMCS and the GA's through the Student Aid Internet Gateway (SAIG). There are currently 24 GA's with whom TOP files are exchanged. The list of files exchanged between DMCS and GA is provided below in Table 1-2 GA TOP Files Interface List.</p> <p>A short description of each of the files exchanged between DMCS and the GA is provided in Section 5.</p>
Requesting (Source) Application	Please reference Table 1-2 GA TOP Files Interface List below.
Responding (Receiving or Destination) Application	Please reference Table 1-2 GA TOP Files Interface List below.
Technical Requirement References	Please reference Table 1-2 GA TOP Files Interface List below.
Interface Usage Frequency	Please reference Table 1-2 GA TOP Files Interface List below.
Interface Usage Volume	Please reference Table 1-2 GA TOP Files Interface List below.

1.1. TOP Files Interface List

Please see listed below the list of TOP File Interfaces between DMCS and the Guaranty Agencies for the Treasury Offset Process.

Table 1-2 GA TOP Files Interface List

File Type	File Name	Message Class	File Source	File Destination	Frequency	Record Length	Volume
TOP GA Pre-Offset Address Request	[Message Class]_[YYYYMMDDHHMMSS].dat	PCARFLIN	GA	DMCS	Monthly (Friday before 5 p.m. immediately preceding the last Thursday of the month)	100	111,804 per month
TOP GA Weekly Update file	[Message Class]_[YYYYMMDDHHMMSS].dat.	WKUUFLIN	GA	DMCS	Weekly (Friday) before 5 p.m.	200	670,000 per week
TOP GA Agency Debt Extract File	[TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_ FDMP.AXDEBTAX.AGnnSss.Dyymmdd _ [CCYYMMDDHHMMSS].txt	TOPGADOP	DMCS	GA	Semi-annual (December and June)	200	
TOP GA Agency Debt Extract Transmittal File	[TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_ TRANSMITTAL_ [CCYYMMDDHHMMSS].dat	TOPGATOP	DMCS	GA	Semi-annual (December and June)	133	
Pre-Offset Request Summary Error Report File	[TG Mailbox ID]_[Message Class]_Agency Site ID & Agency Code_ RTOP05_YYYYMMDD_HHMMSS.dat	PCARUROP	DMCS	GA	Monthly (Friday or Saturday preceding the last Thursday of each month)	133	
TOP GA Pre-Offset Address Return File	[TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_ TOPADDRESSRETURN_ [CCYYMMDDHHMMSS].txt	POFAFLOP	DMCS	GA	Monthly	165	

File Type	File Name	Message Class	File Source	File Destination	Frequency	Record Length	Volume
TOP GA Pre-Offset Address Return Transmittal File	[TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_TRANSMITTAL_[CCYYMMDDHHMMSS].dat	POFATROP	DMCS	GA	Monthly	133	
TOP Weekly Update Unprocessable File	[TG Mailbox ID]_[Message Class]_[Agency Site ID]_TOPWEEKLYUPDATE_[CCYYMMDDHHMMSS].txt	WKUUEROP	DMCS	GA	Weekly (Friday or Saturday)	221	
GA Weekly Update Summary Report File	[TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_RTOP08_[YYYYMMDD_HHMMSS].dat	WKUUSROP	DMCS	GA	Weekly (Friday or Saturday)	133	
GA Weekly Update Edit Error Report File	[TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_RTOP09_[YYYYMMDD_HHMMSS].dat	WKUUSROP	DMCS	GA	Weekly (Friday or Saturday)	133	
TOP Weekly Update File Edit Error Report File	[TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_RTOP16_[YYYYMMDD_HHMMSS].dat	WKUUSROP	DMCS	GA	Weekly (Friday or Saturday)	133	
TOP Weekly Update Warnings and Errors Report File	[TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_RTOP17_[YYYYMMDD_HHMMSS].dat	WKUUSROP	DMCS	GA	Weekly (Friday or Saturday)	133	
TOP Weekly Update Treasury Unprocessable File	[TG MAILBOX ID]-[Message Class]- WEEKLYUNPROC_[Agency Site ID]_[CCYYMMDDHHMMSS].dat	WKUPFLOP	DMCS	GA	Weekly (Wednesday or Thursday)	221	
TOP Weekly Update Treasury Unprocessable Transmittal File	[TG MAILBOX ID]-[Message Class]- TRANSMITTAL-[Agency Site ID]-CCYYMMDDHHMMSS.dat	WKUPTROP	DMCS	GA	Weekly (Wednesday or Thursday)	133	
TOP Weekly Collections File	[TG Mailbox ID]-[Message Class]-TOPCOLLECTIONS-[Agency Site ID]-CCCCCYMMDDHHMMSS.dat	WKCOFLOP	DMCS	GA	Weekly (Thursday or Friday)	250	

File Type	File Name	Message Class	File Source	File Destination	Frequency	Record Length	Volume
TOP Weekly Collections Transmittal File	[TG Mailbox ID]-[Message Class]-Transmittal-[Agency Site ID]-[CCYYMMDDHHMMSS].dat	WKCOTROP	DMCS	GA	Weekly (Thursday or Friday)	133	

Section 2. Interface Overview

2.1. Flow Diagram

2.1.1. TOP Inbound Files from GA to DMCS

Figure 2-1 TOP Inbound Files from GA to DMCS

2.1.2. TOP Outbound Files from DMCS to GA

Figure 2-2 - TOP Outbound Files from DMCS to GA

2.2. Flow Diagram Description

2.2.1. TOP Inbound Files from GA to DMCS

1. Guaranty Agency will initiate a process to create the TOP files and send to SAIG.
2. The DMCS FTS Server pulls the files from SAIG using TD Client.
3. The DMCS ETL Server pulls the TOP files from the DMCS FTS Server via SFTP.

2.2.2. TOP Outbound Files from DMCS to GA

1. The DMCS system will initiate a process to create the TOP Files.
2. The DMCS batch process will route the TOP files from the DMCS ETL Server to the DMCS FTS Server.
3. The DMCS FTS Server will route the TOP files to SAIG using TD Client.

2.3. Usage Scenarios

2.3.1. TOP Inbound Files from GA to DMCS

GA creates the TOP files and sends to SAIG. The DMCS FTS Server pulls the TOP files from SAIG via TD Client. The DMCS ETL server pulls the TOP files from DMCS FTS Server.

2.3.2. TOP Outbound Files from DMCS to GA

DMCS batch jobs create outgoing files for each of the 24 GA's. The DMCS ETL Server pushes the TOP files to the DMCS FTS Server. The DMCS FTS Server pushes the files to SAIG via TD Client. Guaranty Agencies pick up the files from SAIG.

Section 3. System Information

DMCS or GA can either be the Source or Destination system based on the TOP file being either an incoming or an outgoing file. The Production System location of the twenty-four (24) GA's are not being listed below since they vary based on the GA.

3.1. Requesting (or Source) System Information

Treasury

Production System Location	Based on the GA
Contracting Organization	Based on the GA
Developer Location	Based on the GA
Transmission Protocol	SAIG

3.2. Responding (Receiving or Destination) System Information

DMCS

Production System Location	Manassas, VA
Contracting Organization	MAXIMUS
Developer Location	Frederick, MD
Transmission Protocol	SFTP (Secure File Transfer Protocol)

Section 4. Interfacing System Responsibilities

4.1. Requesting (or Source) System Responsibilities

4.1.1. Guaranty Agency Functional Specifications (Outbound Files)

#	Description
1	<p>Guaranty Agencies will deliver the TOP files to DMCS through SAIG with the following file names:</p> <ul style="list-style-type: none"> TOP GA Pre-Offset Address Request as [PCARFLIN]_[YYYYMMDDHHMMSS].dat TOP GA Weekly Update as [WKUUFILIN]_[YYYYMMDDHHMMSS].dat

4.1.2. DMCS Functional Specifications (Outbound Files)

#	Description
1	<p>Pre-Offset Address Request Summary Error Report</p> <p>DMCS will generate the Pre-Offset Address Request Summary Error Report File that contains the errors corresponding to the TOP GA Pre-Offset Address Request file received from the GA's. The report file also provides the count of Records Transmitted, Processed and Rejected. The Pre-Offset Address Request Summary Error Report File is sent to the respective GA's via SAIG:</p> <ul style="list-style-type: none"> Pre-Offset Request Summary Error Report File as: [TG Mailbox ID]_[Message Class]_Agency Site ID & Agency Code_RTOP05_YYYYMMDD_HHMMSS.dat <p>Pre-Offset Address Return File</p> <p>DMCS will create the Pre-Offset Address Return file for each of the respective GAs that contains the address data received from Treasury. In addition, DMCS will create a transmittal file that corresponds to the Address Return file for each GA:</p> <ul style="list-style-type: none"> TOP GA Pre-Offset Address Return File as [TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_TOPADDRESSRETURN_[CCYYMMDDHHMMSS].txt TOP GA Pre-Offset Address Return Transmittal File as [TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_TRANSMITTAL_[CCYYMMDDHHMMSS].dat <p>TOP GA Weekly Update Unprocessable/Report Files</p> <p>DMCS will generate an Unprocessable file for each GA based on the record level validation errors generated upon processing the TOP GA Weekly Update file from the GA's. In addition, DMCS will generate four (4) report files that contain Summary, Edit Errors, File Edit Error and Warnings associated with processing the TOP GA Weekly Update files as listed below:</p> <ul style="list-style-type: none"> TOP Weekly update Unprocessable File as [TG Mailbox ID]_[Message Class]_[Agency Site ID]_TOPWEEKLYUPDATE_[CCYYMMDDHHMMSS].txt TOP GA Weekly Update Summary Report File as [TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_RTOP08_[YYYYMMDD_HHMMSS].dat TOP GA Weekly Update Edit Error Report File as [TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_RTOP09_[YYYYMMDD_HHMMSS].dat TOP Weekly Update File Edit Error Report File as [TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_RTOP16_[YYYYMMDD_HHMMSS].dat TOP Weekly Update Warnings and Errors Report File as [TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_RTOP17_[YYYYMMDD_HHMMSS].dat <p>TOP GA Weekly Update Treasury Unprocessable File</p> <p>DMCS will create the TOP GA Weekly Update Treasury Unprocessable file for each GA based on the Unprocessable records received from Treasury. In addition, DMCS will create a transmittal file that corresponds to the TOP GA Weekly Update Treasury Unprocessable file for each GA:</p>

#	Description
	<ul style="list-style-type: none"> TOP Weekly update Treasury Unprocessable File as [TG MAILBOX ID]-[Message Class]-WEEKLYUNPROC_[Agency Site ID]_CCYYMMDDHHMMSS.dat TOP Weekly update Treasury Unprocessable Transmittal File as [TG MAILBOX ID]-[Message Class]-TRANSMITTAL-[Agency Site ID]-CCYYMMDDHHMMSS.dat <p>TOP Agency Debt Extract</p> <p>DMCS will create the TOP GA Agency Debt Extract file for each GA twice a year in December and June based on the Agency Debt Extract data received from Treasury. In addition, DMCS will create a transmittal file that corresponds to the TOP GA Agency Debt Extract file for each GA:</p> <ul style="list-style-type: none"> TOP GA Agency Debt Extract File as [TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_FDMP.AXDEBTAX.AGnnSss.Dyymmdd_[CCYYMMDDHHMMSS].txt TOP GA Agency Debt Extract Transmittal File as [TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_TRANSMITTAL_[CCYYMMDDHHMMSS].dat <p>TOP GA Weekly Collections File</p> <p>DMCS will create the TOP GA Weekly Collections file for each GA based on the Weekly Collections data received from Treasury. In addition, DMCS will create a transmittal file that corresponds to the TOP GA Weekly Collections file for each GA:</p> <ul style="list-style-type: none"> TOP Weekly Collections File as [TG Mailbox ID]_[Message Class]_TOPCOLLECTIONS-[Agency Site ID]-CCCCCYMMDDHHMMSS.dat TOP Weekly Collections Transmittal File as [TG Mailbox ID]_[Message Class]-Transmittal-[Agency Site ID]_[CCYYMMDDHHMMSS].dat
2	<p>The TOP files will be formatted as specified in the File Specification Section 6.</p> <ul style="list-style-type: none"> Pre-Offset Request Summary Error Report File TOP GA Pre-Offset Address Return File TOP GA Pre-Offset Address Return Transmittal File TOP Weekly update Unprocessable File TOP GA Weekly Update Summary Report File TOP GA Weekly Update Edit Error Report File TOP Weekly Update File Edit Error Report File TOP Weekly Update Warnings and Errors Report File TOP Weekly update Treasury Unprocessable File TOP Weekly update Treasury Unprocessable Transmittal File TOP Weekly Collections File TOP Weekly Collections Transmittal File TOP GA Agency Debt Extract File TOP GA Agency Debt Extract Transmittal File
3	The DMCS batch job will remove the Control Record Line Feed (CRLF) on outgoing files to GA's.
4	DMCS will deliver the TOP files to GAs via SAIG using the above file names.

4.2. Responding (Receiving or Destination) System Responsibilities

4.2.1. DMCS Functional Specifications (Inbound Files)

#	Description
1	<p>The DMCS FTS Server will pull the files placed by the GA's from SAIG. The DMCS ETL Server will pull the files from the DMCS FTS Server with the file names listed below:</p> <ul style="list-style-type: none"> TOP GA Pre-Offset Address Request as [PCARFLIN]_[YYYYMMDDHHMMSS].dat TOP GA Weekly Update as [WKUUFILIN]_[YYYYMMDDHHMMSS].dat
2	The batch job will add Control Record Line Feed (CRLF) to incoming files as needed.

#	Description
3	<p>The DMCS batch jobs will process the TOP GA Pre-Offset Address Request and TOP GA Weekly Update files and generate the following Report/Unprocessable files based on record-level validation failures.</p> <p>TOP GA Pre-Offset</p> <ul style="list-style-type: none"> Pre-Offset Request Summary Error Report File <p>TOP GA Weekly Update</p> <ul style="list-style-type: none"> TOP GA Weekly Update Summary Report File TOP GA Weekly Update Edit Error Report File TOP Weekly Update File Edit Error Report File TOP Weekly Update Warnings and Errors Report File <p>In addition, DMCS will generate the TOP Weekly Update Unprocessable file to the respective GA's.</p>

4.2.2. Guaranty Agency Functional Specifications (Inbound Files)

#	Description
1	<p>Guaranty Agencies pick up the TOP files pushed to SAIG via TD Client by the DMCS FTS Server with the following file names:</p> <ul style="list-style-type: none"> Pre-Offset Request Summary Error Report File as [TG Mailbox ID]_[Message Class]_Agency Site ID & Agency Code_RT0P05_YYYYMMDD_HHMMSS.dat TOP GA Pre-Offset Address Return File as [TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_TOPADDRESSRETURN_[CCYMMDDHHMMSS].txt TOP GA Pre-Offset Address Return Transmittal File as [TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_TRANSMITTAL_[CCYMMDDHHMMSS].dat TOP Weekly update Unprocessable File as [TG Mailbox ID]_[Message Class]_[Agency Site ID]_TOPWEEKLYUPDATE_CCYMMDDHHMMSS.txt TOP GA Weekly Update Summary Report File as [TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_RT0P08_YYYYMMDD_HHMMSS.dat TOP GA Weekly Update Edit Error Report File as [TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_RT0P09_YYYYMMDD_HHMMSS.dat TOP Weekly Update File Edit Error Report File as [TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_RT0P16_YYYYMMDD_HHMMSS.dat TOP Weekly Update Warnings and Errors Report File as [TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_RT0P17_YYYYMMDD_HHMMSS.dat TOP Weekly update Treasury Unprocessable File as [TG MAILBOX ID]-[Message Class]-WEEKLYUNPROC_[Agency Site ID]_CCYMMDDHHMMSS.dat TOP Weekly update Treasury Unprocessable Transmittal File as [TG MAILBOX ID]-[Message Class]-TRANSMITTAL-[Agency Site ID]-CCYMMDDHHMMSS.dat TOP Weekly Collections File as [TG Mailbox ID]_[Message Class]_TOPCOLLECTIONS-[Agency Site ID]-CCCCCYMMDDHHMMSS.dat TOP Weekly Collections Transmittal File as [TG Mailbox ID]_[Message Class]-Transmittal-[Agency Site ID]_[CCYMMDDHHMMSS].dat TOP GA Agency Debt Extract File as [TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_FDMP.AXDEBTAX.AGnnSss.Dyymmdd_[CCYMMDDHHMMSS].txt TOP GA Agency Debt Extract Transmittal File as [TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_TRANSMITTAL_[CCYMMDDHHMMSS].dat
2	<p>Guaranty Agency will trigger a batch job to process the file.</p>

Section 5. Business Rules and Logic

5.1. GA to DMCS Inbound Files

5.1.1. TOP GA Pre-Offset Address Request File

Each Guaranty Agency will create the TOP GA Pre-Offset Address Request file that contains Borrowers for whom an address is requested from Treasury. This file is sent by the GA's on a monthly basis to DMCS via SAIG prior to 5 p.m. on Friday immediately preceding the last Thursday of each month. The file contains the following records.

- SAIG Header,
- Batch Header,
- File Header,
- Detail Records,
- Control record,
- Batch Trailer, and
- SAIG Trailer.

The following section outlines the business rules and validation logic.

Type	Description
Validation	<p><u>File Level Validations:</u></p> <ul style="list-style-type: none"> • File name is '[Message Class]_[YYYYMMDDHHMMSS].dat' where: <ul style="list-style-type: none"> ○ Message Class = PCARFLIN, ○ YYYY = Extract Year ○ MM = Extract Month ○ DD = Extract Day ○ HHMMSS = Extract Time (Hour, Minute & Second) • SAIG Header Identifier = 'O*N05'. • SAIG Batch Header Identifier = 'O*BAT' • File Header Identifier = '1HDR' • File contains at least one detail record • File contains a control record • File Control record contains a count of the detail records • Batch Trailer Identifier = "1EOF" or '1EOR'. • Batch Trailer record contains a count the detail records. • SAIG Trailer Identifier = 'O*N95' • File Control record 'Batch Control Number' matches the T1 record 'Batch Control Number' • File contains at least one Type 1 Detail record • Type 1 Detail record count matches the Control record count • Sum of Type 1 Detail record Debt Amount matches the Control record Debt Amount
Exception Processing	<p>DMCS batch job will generate 'Pre-Offset Request Summary Error Report (RTOP05) for detail records that fail the validation criteria.</p> <p>Note: This report file will be sent to the GA's via SAIG.</p>
Logic	<p>System will process only the most recent file if multiple files are submitted by the GA prior to the Friday immediately preceding the last Thursday of each month.</p>

5.1.2. TOP GA Weekly Update File

Each Guaranty Agency sends the TOP GA Weekly Update file to DMCS every Friday prior to 5 p.m. that contains both certification records for new borrowers and updates to previously certified borrowers with Treasury. The file contains the following records.

- SAIG Header,
- Batch Header,
- File Header,
- Type 1 Debtor Name, TIN, Debt Number,
- Type 2 Debtor Address
- Type 4 Alias Name
- Control record, and
- SAIG Trailer.

The following section outlines the business rules and validation logic.

Type	Description
Validation	<p><u>File Level Validations:</u></p> <ul style="list-style-type: none"> • File name is '[Message Class]_[YYYYMMDDHHMMSS].dat' where: <ul style="list-style-type: none"> ○ Message Class = WKUUFLIN, ○ YYYY = Extract Year ○ MM = Extract Month ○ DD = Extract Day ○ HHMMSS = Extract Time (Hour, Minute & Second) • SAIG Header Identifier = 'O*N05', • SAIG Batch Header Identifier = 'O*BAT', • File Header Identifier = 'HDR1', • File Header Agency Site = valid Subagency Code, • File Header File Identifier = GATOPWEEKLYUPDATE', • File Header Tape Creation Date is formatted as 'YYYYMMDD' and is less than the current system date, • File contains at least one detail record (Type 1, 2 or 4), • File contains a Control record, • File Control record Item Count matches the sum of the detail records, • File Control record 'Total Debt Amount' matches the sum of the Type 1 Delinquent Debt amount, and • SAIG Trailer Identifier = 'O*N95'.
Exception Processing	<p>DMCS batch job will generate an Unprocessable file for each GA based on the record level validation errors received upon processing the TOP GA Weekly Update file. In addition four (4) report files that contain the Summary, Edit Errors, File Edit Error and Warnings associated with processing the TOP GA Weekly Update files will be sent to the GA's. The files will be sent to the GA's via SAIG.</p>
Logic	<p>System will process the TOP GA Weekly Update files after 5 p.m. each Friday.</p>

5.2. DMCS to Guaranty Agency Outbound Files

5.2.1. TOP GA Agency Debt Extract File

This file contains the data for GA held borrowers at Treasury including their name, current status and outstanding balance. This file is used to synchronize TOP data

between the Treasury and GA systems so they have the same status (Active or Inactive), and balance for every borrower. DMCS will forward the Agency Debt Extract File received from Treasury twice a year (December and June) to each GA that is used to reconcile the GAs' data with Treasury. The file contains the following records.

- T1 (Header),
- Detail (Type 1), and
- Control record.

The following section outlines the business rules and validation logic.

Type	Description
Validation	Select Agency Debt Extract records received from Treasury for each GA that passed the validation criteria
Exception Processing	Records that failed the record-validation criteria are excluded from the file sent to GAs
Logic	<p>Create the TOP GA Agency Debt Extract File for each GA with the following file name: '[TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_FDMP.AXDEBTAX.AGnnSss.Dyymmdd_[CCYYMMDDHHMMSS].txt' where:</p> <ul style="list-style-type: none"> • TGMailbox ID = Mailbox ID corresponding to the respective GA • Message Class = TOPGADOP • Agency Site ID = Subagency Code for corresponding GA, • Agency Code = Three digit agency code for corresponding GA, • 'AG' represents the Agency ID. • 'NN' is equal to '05' for the Department of Education, • 'S' represents the sequence number • 'SS' = two digit sequence number • 'D' represents the Date, • 'YY' = Extract Year • 'MM' = Extract Month • 'DD' = Extract Day • CCYY = Four digit Extract Year • 'MM' = Extract Month • 'DD' = Extract Day • 'HHMMSS' = Extract Time (Hour, Seconds and Minutes)

5.2.2. TOP GA Agency Debt Extract Transmittal File

The TOP GA Agency Debt Extract file is accompanied by the Transmittal file that indicates the File Type, total record count and debt amount corresponding to the file. This file is sent via SAIG.

The following section outlines the business rules and validation logic.

Type	Description
Validation	N/A
Exception Processing	N/A
Logic	Create the TOP GA Agency Debt Extract Transmittal File for each GA with the following file name:

Type	Description
	<p>'[TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_ TRANSMITTAL_[CCYYMMDDHHMMSS].dat' where:</p> <ul style="list-style-type: none"> • TGMailbox ID = Mailbox ID corresponding to the respective GA, • Message Class = TOPGATOP, • Agency Site ID = Subagency Code for corresponding GA, • Agency Code = Three digit agency code for corresponding GA, • CCYY = Four digit Extract Year, • 'MM' = Extract Month, • 'DD' = Extract Day, and • 'HHMMSS' = Extract Time (Hour, Seconds and Minutes).

5.2.3. TOP Pre-Offset Request Summary Report File

This file contains the summary information corresponding to the unprocessable records resulting from the processing of the TOP Pre-Offset Address Request file received from the GAs. This file is sent via SAIG to the GA's.

The following section outlines the business rules and validation logic.

Type	Description
Validation	N/A
Exception Processing	N/A
Logic	<p>Create the TOP Pre-Offset Request Summary Error Report file with the following file name: [TG Mailbox ID]_[Message Class]_Agency Site ID & Agency Code_RT05_YYYYMMDD_HHMMSS.dat where:</p> <ul style="list-style-type: none"> • TGMailbox ID = Mailbox ID corresponding to the respective GA, • Message Class = PCARUROP, • Agency Site ID = Subagency Code for corresponding GA, • Agency Code = Three digit agency code for corresponding GA, • 'YYYY' = Four digit Extract Year, • 'MM' = Extract Month, • 'DD' = Extract Day, and • HHMMSS' = Extract Time (Hour, Seconds and Minutes).

5.2.4. TOP GA Pre-Offset Address Return File

This file contains the Address data received from Treasury for GA held borrowers as a result of the TOP GA Pre-offset Address Request sent to Treasury. A separate file is created for each GA with the corresponding address data. The file contains the following records:

- Detail record and
- Control record.

The following section outlines the business rules and validation logic.

Type	Description
Validation	N/A
Exception Processing	N/A
Logic	<p>Create the TOP GA Agency Debt Extract File for each GA with the following file name: '[TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_TOPADDRESSRETURN_[CCYYMMDDHHMMSS].txt' where:</p> <ul style="list-style-type: none"> • TGMailbox ID = Mailbox ID corresponding to the respective GA, • Message Class = POFAFLOP, • Agency Site ID = Subagency Code for corresponding GA, • Agency Code = Three digit agency code for corresponding GA, • CCYY = Four digit Extract Year, • 'MM' = Extract Month, • 'DD' = Extract Day, and • 'HHMMSS' = Extract Time (Hour, Seconds and Minutes).

5.2.5. TOP GA Pre-Offset Address Return Transmittal File

The TOP GA Pre-Offset Address Return file submitted to the Guaranty Agency is accompanied by the Transmittal file that indicates the File Type, Agency ID, total count of Pre-offset Address Request records that matched or did not match at Treasury. This file is sent via SAIG.

The following section outlines the business rules and validation logic.

Type	Description
Validation	N/A
Exception Processing	N/A
Logic	<p>Create the TOP GA Pre-Offset Address Return Transmittal File for each GA with the following file name: '[TG Mailbox ID]_[Message Class]_[Agency Site ID & Agency Code]_TRANSMITTAL_[CCYYMMDDHHMMSS].dat' where:</p> <ul style="list-style-type: none"> • TGMailbox ID = Mailbox ID corresponding to the respective GA, • Message Class = POFATROP, • Agency Site ID = Subagency Code for corresponding GA, • Agency Code = Three digit agency code for corresponding GA, • CCYY = Four digit Extract Year, • 'MM' = Extract Month, • 'DD' = Extract Day, and • 'HHMMSS' = Extract Time (Hour, Seconds and Minutes).

5.2.6. TOP GA Weekly Update Unprocessable File

This file contains the unprocessable records resulting from the processing of the TOP GA Weekly Update file by DMCS received from the GAs. A separate unprocessable file is created for each GA. The Unprocessable file may contain up to ten (10) two position TOP Unprocessable error codes. This file is sent via SAIG to the GA's.

The following section outlines the business rules and validation logic.

Type	Description
Validation	N/A
Exception Processing	N/A
Logic	<p>Create the TOP GA Weekly Update Unprocessable file with the following file name: [TG Mailbox ID]-[Message Class]_[Agency Site ID]_TOPWEEKLYUPDATE_CCYYMMDDHHMMSS.txt where:</p> <ul style="list-style-type: none"> • TGMailbox ID = Mailbox ID corresponding to the respective GA, • Message Class = WKUUEROP, • Agency Site ID = Subagency Code for corresponding GA, • Agency Code = Three digit agency code for corresponding GA, • 'CCYY' = Four digit Extract Year, • 'MM' = Extract Month, • 'DD' = Extract Day, and • HHMMSS' = Extract Time (Hour, Seconds and Minutes).

5.2.7. TOP GA Weekly Update Summary Report File

This report file contains the summary information corresponding to the Records Processed, Rejected and Accepted resulting from the processing of the TOP GA Weekly Update file by DMCS. This file is sent via SAIG to the GA's.

The following section outlines the business rules and validation logic.

Type	Description
Validation	N/A
Exception Processing	N/A
Logic	<p>Create the TOP GA Weekly Update Summary Report file with the following file name: [TG Mailbox ID]_[Message Class]_Agency Site ID & GA Code_RT0P08_[YYYYMMDD_HHMMSS].dat'.where:</p> <ul style="list-style-type: none"> • TGMailbox ID = Mailbox ID corresponding to the respective GA, • Message Class = WKUUSROP, • Agency Site ID = Subagency Code for corresponding GA, • 'CCYY' = Four digit Extract Year, • 'MM' = Extract Month, • 'DD' = Extract Day, and • HHMMSS' = Extract Time (Hour, Seconds and Minutes).

5.2.8. TOP GA Weekly Update Edit Error Report File

This report file contains the error codes for each Type 1, 2 or 4 unprocessable records resulting from the processing of the TOP GA Weekly Update file by DMCS. This file is sent via SAIG to the GA's.

The following section outlines the business rules and validation logic.

Type	Description
Validation	N/A
Exception Processing	N/A
Logic	<p>Create the TOP GA Weekly Update Edit Error Report file with the following file name: [TG Mailbox ID]_[Message Class]_Agency Site ID & GA Code_RTOP09_[YYYYMMDD_HHMMSS].dat'.where:</p> <ul style="list-style-type: none"> • TGMailbox ID = Mailbox ID corresponding to the respective GA, • Message Class = WKUUSROP, • Agency Site ID = Subagency Code for corresponding GA, • 'CCYY = Four digit Extract Year, • 'MM' = Extract Month, • 'DD' = Extract Day, and • HHMMSS' = Extract Time (Hour, Seconds and Minutes).

5.2.9. TOP GA Weekly Update File Edit Error Report File

This file contains the error codes associated to the Header and Control records resulting from the processing of the TOP GA Weekly Update file by DMCS. This file is sent via SAIG to the GA's.

The following section outlines the business rules and validation logic.

Type	Description
Validation	N/A
Exception Processing	N/A
Logic	<p>Create the TOP GA Weekly Update File Edit Error Report file with the following file name: [TG Mailbox ID]_[Message Class]_Agency Site ID & GA Code_RTOP16_[YYYYMMDD_HHMMSS].dat'.where:</p> <ul style="list-style-type: none"> • TGMailbox ID = Mailbox ID corresponding to the respective GA, • Message Class = WKUUSROP, • Agency Site ID = Subagency Code for corresponding GA, • 'CCYY = Four digit Extract Year, • 'MM' = Extract Month, • 'DD' = Extract Day, and • HHMMSS' = Extract Time (Hour, Seconds and Minutes).

5.2.10. TOP GA Weekly Update Warnings & Errors Report File

This file contains the Warnings and Errors resulting from the processing of the TOP GA Weekly Update file by DMCS. This file is sent via SAIG to the GA's.

The following section outlines the business rules and validation logic.

Type	Description
Validation	N/A
Exception Processing	N/A
Logic	<p>Create the TOP GA Weekly Update Warnings and Errors Report file with the following file name: [TG Mailbox ID]_[Message Class]_Agency Site ID & GA Code_RTOP17_[YYYYMMDD_HHMMSS].dat'.where:</p> <ul style="list-style-type: none"> • TGMailbox ID = Mailbox ID corresponding to the respective GA, • Message Class = WKUUSROP, • Agency Site ID = Subagency Code for corresponding GA, • 'CCYY = Four digit Extract Year, • 'MM' = Extract Month, • 'DD' = Extract Day, and • HHMMSS' = Extract Time (Hour, Seconds and Minutes).

5.2.11. TOP GA Weekly Update Treasury Unprocessable File

This file contains the unprocessable records received from Treasury as a result of processing the TOP GA Weekly Update file. A separate unprocessable file is created for each GA based on the unprocessable records received from Treasury. The Unprocessable file may contain up to ten (10) two position TOP Unprocessable error codes. This file is sent via SAIG to the GA's.

The following section outlines the business rules and validation logic.

Type	Description
Validation	N/A
Exception Processing	N/A
Logic	<p>Create the TOP GA Weekly Update Treasury Unprocessable file with the following file name: [TG Mailbox ID]-[Message Class]-WEEKLYUNPROC_[Agency Site ID]_CCYYMMDDHHMMSS.dat</p> <p>where:</p> <ul style="list-style-type: none"> • TGMailbox ID = Mailbox ID corresponding to the respective GA, • Message Class = WKUPFLOP, • Agency Site ID = Subagency Code for corresponding GA, • 'CCYY = Four digit Extract Year, • 'MM' = Extract Month, • 'DD' = Extract Day, and • HHHMMSS' = Extract Time (Hour, Seconds and Minutes). •

5.2.12. TOP GA Weekly Update Treasury Unprocessable Transmittal File

The TOP GA Weekly Update Treasury Unprocessable file sent to each GA is accompanied by the Transmittal file that indicates the File Type, Agency Site ID, File Creation Date, total count of unprocessable records, corresponding dollar amount of unprocessable records, and the Cycle number (four digit year and week number). This file is sent via SAIG.

The following section outlines the business rules and validation logic.

Type	Description
Validation	N/A
Exception Processing	N/A
Logic	<p>Create the TOP GA Weekly Update Treasury Unprocessable Transmittal file for each GA with the following file name: [TG MAILBOX ID]-[Message Class]-TRANSMITTAL-[Agency Site ID]-CCYMMDDHHMMSS.dat where:</p> <ul style="list-style-type: none"> • TGMailbox ID = Mailbox ID corresponding to the respective GA, • Message Class = WKUPTROP, • Agency Site ID = Subagency Code for corresponding GA, • 'CCYY' = Four digit Extract Year, • 'MM' = Extract Month, • 'DD' = Extract Day, and • HHHMMSS' = Extract Time (Hour, Seconds and Minutes).

5.2.13. TOP GA Weekly Collections File

This file contains the TOP offsets and reversals data received from Treasury for GA held borrowers. A separate file is created for each GA with their respective data. The file contains the following records:

- Header record,
- Detail record, and
- Control record.

The following section outlines the business rules and validation logic.

Type	Description
Validation	N/A
Exception Processing	N/A
Logic	<p>Create the TOP GA Weekly Collections file with the following file name: [TG Mailbox ID]-[Message Class]-TOPCOLLECTIONS-[Agency Site ID]-CCCCCYMMDDHHMMSS.dat where:</p> <ul style="list-style-type: none"> • TGMailbox ID = Mailbox ID corresponding to the respective GA, • Message Class = WKCOFLOP, • Agency Site ID = Subagency Code for corresponding GA, • 'CCCC' = Offset Cycle number (last 4 digits, position 187-190 of the TOP Weekly Collections file received from Treasury)

Type	Description
	<ul style="list-style-type: none"> • 'CCYY' = Four digit Extract Year, • 'MM' = Extract Month, • 'DD' = Extract Day, and • HHHMMSS' = Extract Time (Hour, Seconds and Minutes).

5.2.14. TOP GA Weekly Collections Transmittal File

The TOP GA Weekly Collections file sent to each GA is accompanied by the Transmittal file that indicates the File Type, Agency Site ID, File Creation Date, Offset Record Count, Offset Record Amount, Reversal Record Count, Reversal Record Amount and Cycle number (last four digits, position 187-190 of the TOP Weekly Collections file received from Treasury). This file is sent via SAIG.

The following section outlines the business rules and validation logic.

Type	Description
Validation	N/A
Exception Processing	N/A
Logic	<p>Create the TOP GA Weekly Update Unprocessable file with the following file name: [TG Mailbox ID]-[Message Class]-Transmittal-[Agency Site ID]- [CCYYMMDDHHMMSS].dat where:</p> <ul style="list-style-type: none"> • TGMailbox ID = Mailbox ID corresponding to the respective GA, • Message Class = WKCOTROP • Agency Site ID = Subagency Code for corresponding GA, • 'CCYY = Four digit Extract Year, • 'MM' = Extract Month, • 'DD' = Extract Day, and • HHHMMSS' = Extract Time (Hour, Seconds and Minutes).

Section 6. File Specification

6.1. GA To DMCS Inbound File Layouts

6.1.1. TOP GA Pre-Offset Address Request File

6.1.1.1. GA Monthly Pre-Offset Address Request Header Record

This record must be the first record on all GA submitted files.

Table 6-1 TOP GA Pre-Offset Header Record

File Position	Field Title	Length	Description and Remarks
1-4	Header Identifier	4	REQUIRED. Enter the constant "1HDR"
5-16	Filler	12	REQUIRED. Fill with blanks
17-19	File Sequence	3	REQUIRED. Number of records&& starting Number with "001"
20	Filler	1	REQUIRED. Fill with a blank
21-30	"To" Job Number	10	REQUIRED. Enter the constant "4403A01000" for the GA Pre-Offset File
31-37	Creation Date	7	REQUIRED. Enter the date using the format – YYYYDDD (year/Julian date)
38-42	Filler	5	REQUIRED. Fill with blanks
43-49	"From" Job Number	7	REQUIRED. Enter the constant "FEDAGCY"
50	Zero	1	REQUIRED. Fill with a Zero
51-52	Subagency Code	2	"REQUIRED. Code assigned to GA by ED. (See Part A&& Section 3)"
53-80	Filler	28	REQUIRED. Fill with blanks

6.1.1.2. GA Monthly Pre-Offset Address Request Record

The Pre-Offset Address Request Record contains information on potential obligors and used by the GA as a means for obtaining the latest address information and checking status of data. The address will be appended to the end of the incoming record. All records will be returned to the participating GA. Header and Trailer Records are required. **ONLY ONE RECORD ALLOWED PER SSN WITH THE SAME AGENCY CODE AND SUBAGENCY CODE RECORDS WITH THE SAME SSN, AGENCY CODE, AND SUBAGENCY CODE WILL CAUSE THE FIRST RECORD TO BE ACCEPTED AND THE LATER RECORDS TO BE REJECTED AS DUPLICATES.**

Table 6-2 TOP GA Pre-Offset Detail Record

File Position	Field Title	Length	Description and Remarks
1-2	Agency Code	2	REQUIRED. Code assigned to ED by the Treasury. Enter constant "05"
3-4	Subagency Code	2	REQUIRED. Code assigned by ED to identify GA accounts. (See Definitions&&& Part A&&& Section 3)
5	Subagency Priority Code	1	Leave Blank
6-9	Name Control	4	REQUIRED. Enter the first four significant characters of the obligor's last name. Last names of less than four characters should be left justified&&& with unused positions filled with blanks. Embedded blanks must be removed. No Special Characters. (See Definitions&&& Part A&&& Section 3)
10	on-line Request Indicator	1	Required Constant 0= Batch Request C = On-Line Request
11-19	SSN	9	REQUIRED. Enter the obligor's Social Security Number as assigned by SSA. Right justify. SSN cannot equal all 0's - 9s
20-39	Last Name	20	REQUIRED. Enter the obligor's Last Name. Left justify and fill with blanks. It may contain embedded blanks. Hyphens and apostrophes are allowed but no other special characters.
40-54	First Name	15	REQUIRED. Enter the obligor's First Name. Left Justify and fill with blanks. It may contain embedded blanks but no numeric. Hyphens are allowed but no other special characters.
55-64	Amount Owed	10	REQUIRED. Enter the amount owed by the obligor. Amount owed may never be less than \$25.00. The amount must be entered in dollars and cents e.g. \$25.00 is entered as 0000002500. Do not enter dollar signs commas decimal points or negative amounts. Must be right justified and unused positions must be zero filled. NOTE: This Field will be filled with spaces on the GA return file.
65-66	Filler	2	REQUIRED. Fill with blanks
67-69	Local Code	3	OPTIONAL. Code used to identify GA address and contact information for Offset Notices. Fill with zeros. NOTE: If other than zeros are used in the Local Code field ED will populate this field with zeros.
70-83	Agency Case Number	14	REQUIRED. Identifies account for GA files. NOTE: Agency Case Number is required and must be formatted as follows: Positions 70-71 must contain the GA's Subagency Code & Positions 72-83 must contain a unique 12-character number assigned by the GA to the borrower and may not contain the obligor's Social Security Number (SSN). This must be the same number reported in the Debt Number field of the TOP GA Weekly Update files (Type 1, 2 & 4 records).the obligor's SSN&& Positions 81-83 must contain blanks
84-86	Filler	3	REQUIRED. Fill with blanks

File Position	Field Title	Length	Description and Remarks
87-94	Delinquent Date		OPTIONAL. The date at which the obligation was delinquent. Format is YYYYMMDD.
95	Judgement Debt Indicator	1	OPTIONAL. Blank fill unless it is a Judgement Debt.A "J" identifies a Judgement Debt. (See Definitions Part A Section 3.)
96-100	Filler	5	REQUIRED. Fill with blanks.

6.1.1.3. GA Monthly Pre-Offset Data Control Record

Identifies the cumulative counts and amounts for all detail records on the GA Pre-Offset Address Request file and must appear as the last data record on that file which is submitted to ED. If the Record Count or Obligation Amount does not balance when the file is processed, the complete file will be rejected and a replacement file will be required.

Table 6-3 TOP GA Pre-Offset Data Control Record

File Position	Field Title	Length	Description and Remarks
1-4	Record ID		REQUIRED. Enter the constant "CNTL". This identifies the end of processable records.
5-12	Record Count		REQUIRED. Enter record count of Pre-Offset detail records.
13-24	Obligation Amount	12	REQUIRED. Enter the cumulative total Amount Owed for all records. Right Justify and zero fill.
25-100	Filler	76	Fill with blanks

6.1.1.4. GA Monthly Pre-Offset Address Request Trailer Record

This record must be the last record on all GA submitted files.

Table 6-4 TOP GA Pre-Offset Trailer Record

File Position	Field Title	Length	Description and Remarks
1-4	Trailer Identifier	4	Present Enter the constant "1EOR" or "IEOF"
5	Filler	1	REQUIRED. Fill with blank.
6-10	Record Count	5	REQUIRED. Enter the cumulative total of Records. The Record count must be right justified and unused positions must be zero filled.
11-20	File Record Count	10	REQUIRED. Enter the cumulative total of records on the file. The File Record Count must be right justified and unused positions must be zero filled.

File Position	Field Title	Length	Description and Remarks
21-30	File Hash Count	10	OPTIONAL. Contains cumulative summation of SSN's with high order positions truncated. The File Hash Count must be right justified and unused positions must be zero filled.
31-40	File Record Count	10	OPTIONAL. Enter the cumulative total of records on the file. The File Record Count must be right justified and unused positions must be zero filled.
41-80	Filler	40	REQUIRED. Filled with blanks.

NOTE: Even though your agency may provide information in the optional fields when ED returns the GA Address Return file those optional fields will have spaces. ED will not provide the data the GAs provided in their earlier files for the optional fields.

6.1.2. TOP GA Weekly Update File

6.1.2.1. TOP GA Weekly Update Header Record

The Header Record identifies the beginning of the file for all records on the GA-TOP Weekly Update file. This record must appear as the first data record on the file, which is submitted to Education. If Education cannot validate the information in the header record, the complete file will be rejected, and the GA will be required to submit a replacement file.

Key: RJ=right justified, LJ=left justified, SF=space filled, ZF=zero filled, AN=alphanumeric, A=alpha, N=numeric

Table 6-5 TOP GA Weekly Update Header Record

Format Position	Field Title	Length	Description and Remarks
1 - 4	Record ID	4	REQUIRED. Must contain constant "HDR1". Identifies the first record on the file. AN
5 - 12	Agency ID [Agency Code]	8	REQUIRED. Code assigned to Education by Treasury. Must contain constant "05". LJ SF AN
13 - 20	Agency Site ID [Subagency Code]	8	REQUIRED. Must contain code assigned by Education to identify GA accounts. (See Appendix A.) LJ SF AN
21 - 45	File Identifier	25	REQUIRED. Identifies file type. Must contain "GATOPWEEKLYUPDATE". LJ SF AN
46 - 53	File Creation Date	8	REQUIRED. Must contain the date the file was created. Must be valid date. Format is YYYYMMDD. N
54 - 200	Filler	147	REQUIRED. Space fill.

6.1.2.2. TOP GA Weekly Update Type 1 Detail Record

(1) TO CERTIFY OR REACTIVATE A BORROWER

Type 1 records (GA-TOP CERTIFICATION/REACTIVATION DETAIL RECORD) are used to certify or reactivate an account in the Treasury Offset Program (TOP). Enter a "Y" in the Action field (File Position 35) for each account that is being reactivated; that is, for any account that was previously accepted for certification in the 1999 processing year forward (i.e., 1999, and/or 2000, and/or 2001, etc.) and subsequently inactivated. The current balance (consisting of principal, interest and fees excluding projected collection costs—~~note: the inclusion of fees is a change~~) should be entered in the Initial Delinquent Debt Amount field (File Positions 135-146). This amount will replace the debt amount of any certified account. Enter an "A" in the Action field for each account you are **certifying** that received a TOP 65-day notice and was not previously certified in the 1999 processing year forward. Again, you will need to enter the current balance (consisting of Principal, Interest and fees excluding projected collection costs) in the Initial Delinquent Debt Amount field (File Positions 135-146). This amount will establish the debt amount of the certified account.

(2) TO REPORT A DECREASE AND/OR INCREASE

Agencies must use a Type 1 record (GA-TOP WEEKLY UPDATE DETAIL RECORD) to report a decrease or increase for accounts in the TOP Program. Enter an "S" in the Action field for each account you are decreasing. Enter an "I" in the Action field for each account you are increasing. (Action field - File Position 35)

For example, Type 1 records with an action of "S" should only be used to indicate a decrease in the balance subject to offset. Decreases would occur if a borrower made a payment or received a credit (other than an offset) which reduced the balance owed, regardless of the reason. If an agency certified an account for \$2,000.00 and received a payment, which reduced the amount owed by \$500.00, your agency should send a Type 1 record with an Action "S" for \$500.00. In this example, Treasury's records would indicate a current balance or amount that can be offset of \$1,500.00 (\$2,000.00 certified amount minus \$500.00 Action "S" amount reported).

Type 1 records with an action of "I" should only be used to indicate an increase in the certified/offset able balance, e.g. for interest accrual or a bounced check (but not a TOP reversal). For example, if an agency certified an account for \$2,000.00 and six months later, the total principal and interest owed is \$2,025.00, due to interest accrual, your agency should send a Type 1 record with an Action "I" for \$25.00. In this example, Treasury's record would indicate a current balance or amount that can be offset of \$2,025.00 (\$2,000.00 certified amount plus \$25.00 Action "I" amount reported).

(3) TO REPORT REFUNDS OF OFFSETS AND ADJUSTMENTS TO REFUNDS PREVIOUSLY REPORTED IN ERROR

Type 1 records must also be used to report refunds of offsets and adjustments (decreases) to refunds previously reported in error or for situations where the refund check to the borrower was not received or returned by the borrower. If a refund of an offset is reported, Treasury will not do a reversal. It is very important, therefore, to report all refunds of offsets, even if the offset occurred in previous years, so that Treasury does not do a reversal; otherwise, the borrower will receive a double refund. Treasury may do a reversal up to seven years after the effective date of the offset. If Treasury does a reversal and your agency does a refund, your agency is responsible for recovering the money from the borrower.

~~Whenever reporting a refund or refund reversal, you should also send a second Type 1 record to report a commensurate increase or decrease in the balance.~~

~~Please note that if an agency reports a refund for a **current year offset**, Treasury will inactivate the account. Therefore, if your agency reports a refund but wishes the account to remain certified, your agency must submit a Type 1, Action "Y" (reactivation) record on the **same** Weekly Update file. It does not matter how you sequence the multiple Type 1 records you send to report a refund or refund reversal; Treasury will order them properly.~~

Refunds or adjustments to refunds are reported by the numeric or alpha code below in the Action field (Format Position 35):

To report a refund of an offset, use the following action code:

1 – agency refund

To report an adjustment (decrease) to a refund previously reported, use the following action code:

R – agency refund adjustment

You can identify the offset associated with a refund either by the year, payment date or trace ID number. Since the trace ID number is unique to every offset, whereas there may be multiple offsets associated with a given year or day, **you should use the trace ID whenever possible**. Populate position 151-160 of the Type 1 record as follows:

Year = Y2017

Payment Date = D20170501

Offset Trace ID = T345678901

If your agency reports a refund that needs to be increased, your agency must submit a "1" in the Action field (Format Position 35) to report another refund. For example:

If a \$200.00 refund of an offset for a specific processing year was previously reported and the correct amount was actually \$2,000.00, a refund should be reported in the amount of \$1,800.00. In this example, Treasury's records would indicate a total refund amount of \$2,000.00 (\$200.00 refund [Action Code 1] plus \$1,800.00 refund [Action Code 1]).

As noted, an "R" is required in the Action field (Format Position 35) to report an adjustment (decrease) to a refund previously reported. The Adjustment to Refund amount should be the difference between the Amount of the Refund previously reported and the correct amount. For example:

If a \$2,000.00 refund of an offset was previously reported for a specific processing year and the correct amount was actually \$200.00, an Adjustment to Refund should be reported in the amount of \$1,800.00. In this example, Treasury's records would indicate a refund amount of \$200.00 (\$2,000.00 refund [Action Code 1] minus \$1,800.00 adjustment to refund [Action Code R]).

All amount fields are unsigned (no + or - signs) and should be sent as "positive" numbers. The Action Code determines whether the refund amount is increased (Action Code 1) or decreased (Action Code R) by the amount reported.

Whenever you report a refund, a cancellation of a refund or a change to a previous refund amount, you may also need to submit a second Type 1 record, as follows (it does not matter how you sequence the records on the Type 1 file):

<u>Borrower Certification Status</u>	<u>Refund or Cancellation</u>	<u>Additional Type 1 Record</u>
<u>Active</u>	<u>Refund (or increase to refund previously reported) that will result in a positive balance eligible for offset</u>	<u>Re-activation (action code Y)</u>
<u>Inactive</u>	<u>Refund (or increase to refund previously reported)</u>	<u>None needed</u>
<u>Active</u>	<u>Refund (or increase to refund previously reported) that will result in a negative or zero balance, or the borrower is no longer eligible for offset (e.g., in bankruptcy)</u>	<u>Inactivation (action code U)</u>
<u>Any</u>	<u>Refund Cancellation (or decrease to refund previously reported)</u>	<u>Decrease record (action code S)</u>

(4) TO INACTIVATE A BORROWER OR TO REPORT CHANGES TO FIRST NAME AND/OR MIDDLE INITIAL

Type 1 records with Action "U" (Format Position 35) must be used to inactivate an account from the TOP by indicating an "I" in the Debt Closed Indicator field (Format Positions 132-133). Guaranty Agencies may inactivate borrowers who meet any of the approved exclusion or exception reasons (see separate guidance on business rules).

Type 1 records with Action "U" (Format Position 35) may also be used to change Debtor's first name or middle initial.

Please note that Education will reject all Type 1, Action U records that have an amount in Format Positions 135 – 146 (Education Unprocessable Error Code: BD - Amount for Type 1, Action U).

(5) TO CHANGE LAST NAME or SSN or Debt Number

Use a Type 1 record with Action "C" to change the debtor's last name.

To change the last name, populate positions 46-80 with the new last name. Populate position 200 with either B or C, as follows:

- B if you are correcting the last name because the borrower never used it

- C if you are reporting a name change (e.g., due to marriage) and want the previous last name listed as an alias for the borrower

To change the Debt Number (aka Agency Case Number), use a Type 1 record with Action "C." Enter the current Debt Number in positions 17-34 and the new Debt Number in positions 173-190. The new Debt Number should be no more than 14 characters in length. The first two characters must be the GA's site ID. The next 12 characters must be a unique number that the GA has assigned to that borrower and may not contain the borrower's SSN.

If you determine that you have certified a borrower under the wrong SSN:

- 1) Send an inactivation record under the incorrect SSN, and
- 2) Send a new certification record (Type 1, Action A) for the correct SSN

~~**NOTE: The use of Action Code C is new and FSA may eliminate this instruction. We hope to make a final decision in the near future and are including this section so agencies can conduct a preliminary analysis.**~~

Key: RJ=right justified, LJ=left justified, SF=space filled, ZF=zero filled, AN=alphanumeric, A=alpha, N=numeric

Table 6-6 TOP GA Weekly Type 1 Record

Format Position	Field Title	Length	Description and Remarks
1 - 8	Agency ID [Agency Code]	8	REQUIRED. Code assigned to Education by Treasury. Enter constant "05". LJ SF AN
9 - 16	Agency Site ID [Subagency Code]	8	REQUIRED. Education assigned Code to identify GA accounts. (See Appendix A.) LJ SF AN
17 - 34	Debt Number [Agency Case Number]	18	REQUIRED. Enter the first two characters of the Agency Site ID followed by <u>a unique number up to 12 characters in length borrower's SSN.</u> (See Appendix A.) LJ SF AN <u>Note: The Agency Debt Number field on the address request file layout is limited to 14 characters so populate the first 14 characters of this field—2 characters for the Site ID and 12 characters assigned by the guaranty agency</u>

Format Position	Field Title	Length	Description and Remarks
35	Action	1	REQUIRED. A = Add a Debt (1) Y = Replace Balance (1) S = Decrease Balance (2) I = Increase Balance (2) 1 = Agency Refund (3) R = Agency Refund Adjustment (3) U = Inactivate or report changes to first name and/or middle initial (4) C = Change last name, SSN, debt number or agency site ID (subagency code) (5) AN
36	Record Type	1	REQUIRED. Enter constant "1". N
37 - 45	Tax ID Number [SSN]	9	REQUIRED. Enter the borrower's Social Security Number (SSN) as assigned by SSA. Pseudo SSNs are not allowed. N
46 - 80	Last Name (1)(5)	35	REQUIRED if action code is A, or if action code is C and intent is to change the last name. Enter the borrower's last name. It may contain embedded spaces. Hyphens and apostrophes are allowed but no other special characters. Space fill for other action codes. LJ SF A
81 - 115	First Name (1) (4)	35	OPTIONAL (populate if available). Enter the borrower's first name. It may contain embedded spaces but no numerics. LJ SF A
116	Middle Initial (1)(4)	1	OPTIONAL. If not needed, space fill. SF A
117 - 124	Date Delinquency Began (1)	8	REQUIRED if action code is A. The date at which the obligation was delinquent. Format is YYYYMMDD. Space fill for other action codes.
125 - 127	Local Contact Code (1) [Local Code]	3	REQUIRED. Enter constant "000".
128-131	Leave blank	4	Leave blank
132 - 133	Debt Closed Indicator (4)	2	REQUIRED if inactivating I = Inactivate. ! or Space fill = Reactivate Space fill for other actions LJ SF AN
134	Filler (4)	1	Fill with Spaces

Format Position	Field Title	Length	Description and Remarks
135 - 146	Initial Delinquent Debt Amount (1) [Amount Owed]	12	REQUIRED if action code is A. Enter the principal, interest and fees and interest amount owed by the borrower. The amount must be entered in dollars and cents. Do not enter dollar signs, commas, decimal points, or negative amounts. Amount owed may never be less than \$25.00 (000000002500). This amount will replace the balance of any account you are Reactivating.
	Delinquent Debt Adjustment or Replacement Amount (2)	12	REQUIRED if action code is S or I. For Action 'S': enter amount to decrease balance. For Action 'I': enter amount to increase balance.
	Amount of Refund or Adjustment to Refund (3)	12	REQUIRED if action code is 1 or R. Enter the amount of the Refund or the amount of the Adjustment to Refund previously reported in error. The Adjustment (decrease) to Refund amount should be the difference between the Amount of the Refund previously reported and the correct amount (e.g., if a \$2,000.00 refund was previously reported and the correct amount was \$200.00, the Adjustment to Refund amount, \$1,800.00, should be indicated in this field Zero fill for actions not listed above RJ ZF N
147 - 148	Debt Type (1)(2)(3)(4)(5)	2	REQUIRED. Enter constant "OD". A
149	Individual (1)(2)(3)(4)(5)	1	REQUIRED. Enter constant "I". A
150	Judgement Debt Indicator (1)	1	REQUIRED. Enter a "J" if it is a Judgement Debt; otherwise, space fill. A
151 - 160	TOP Trace Number (3)	11	REQUIRED if action code is 1 or R Can be the year, date or trace ID number of the offset associated with the refund: Year = Y+year (Y2017) Date = D+date (D20170501) Trace = T+Trace ID (T101010) GAs are strongly encouraged to use the Trace ID whenever possible to ensure a precise match between offset and refund Space fill for other action codes LJ SF AN
161 - 164	Agency Name Control (1)(2)(3)(4)(5) [Name Control]	4	OPTIONAL. Enter the first four significant characters of the borrower's last name. Last names of less than four characters should be left-justified, with unused positions filled with spaces. Special characters and spaces must be removed. (See Appendix A.) AN

Format Position	Field Title	Length	Description and Remarks
165 – 172	New Agency Site ID (5)	8	RESERVED for future use. Space fill. LJ SF AN
173 – 190	New Debt Number (5)	18	REQUIRED if action code is C and intent is to change the debt number. <u>New Debt Number should be limited to 14 characters (Site ID + a unique number up to 12 characters in length).</u> Space fill in other instances LJ SF AN
191 – 199	New Debtor TIN (5)	9	REQUIRED if action code is C and intent is to change the SSN Space fill in other instances SF N
200	Last Name Update Reason (5)	1	REQUIRED if action code is C and intent is to change the last name. B = change only (if previous name was never used by borrower) C = change and create an alias (e.g., if last name changes due to marriage) Space fill in other instances SF A

Treasury will match Reactivate records (Action Y) by comparing the Agency ID (Agency Code), Agency Site ID (Subagency Code), Debt Number (Agency Case Number), and Tax ID Number (SSN). Treasury will not reject a record

if the name and name control are different than what was previously submitted in the 1999 processing year forward because Treasury will, in essence, ignore the name and name control fields on a Reactivated account. By the same token, Treasury will not update its records with the name and name control submitted on a Reactivated account, even if they changed.

GA-TOP ADDRESS RECORD

There are four instances wherein a GA should submit a type 2 record:

- 1) When initially certifying a borrower,
- 2) When reactivating a borrower, and the address has changed since the last update.
- 3) When the GA learns of a new address for an actively certified borrower, or
- 4) When a previous Type 2 record was unprocessable

When certifying a new borrower (or replacing an unprocessable record submitted for a new borrower), populate the Action field on the Type 2 Record with “A;” otherwise populate with “U.”

Guaranty agencies must submit a Type 2, GA-TOP ADDRESS DETAIL RECORD with a “U” in the Action Field (Format Position 35) anytime you are aware of an address change for a borrower to ensure that Treasury has the correct address.

As you know, Treasury may accept your Type 1 Certification record in the Certification/Reactivation Process but Education or Treasury may reject your Type 2 record. In this case, the account would be accepted for Certification, even though Treasury does not have

an address. Guaranty Agencies do not have to wait for receipt of this file; they can correct and resubmit the Type 2 record, if the Type 2 record is returned as unprocessable in the Certification process. Therefore, if an account was submitted for Certification or Reactivation, and the Certification or Reactivation Type 1 record was accepted by Treasury, but the Type 2 record was rejected by Education or Treasury, Guaranty Agencies may submit a Type 2 GA-TOP ADDRESS DETAIL RECORD in the Weekly Update Process.

It is also possible that Treasury may accept your Type 1 Certification record in the Certification/Reactivation Process but your agency did not previously submit a Type 2 record because your agency did not have an address when you certified the account. Again, Guaranty Agencies do not have to wait for receipt of this file, if, in the interim, your agency obtains an address for the borrower. Therefore, if an account was submitted for Certification or Reactivation, and the Certification or Reactivation Type 1 record was accepted, but your agency did not previously submit a Type 2 record, agencies may submit a Type 2 GA-TOP ADDRESS DETAIL RECORD in the Weekly Update Process.

6.1.2.3. TOP GA Weekly Update Type 2 Detail Record

Key: RJ=right justified, LJ=left justified, SF=space filled, ZF=zero filled, AN=alphanumeric, A=alpha, N=numeric

Table 6-7 TOP GA Weekly Update Type 2 Record

Format Position	Field Title	Length	Description and Remarks
1 - 8	Agency ID [Agency Code]	8	REQUIRED. Code assigned to Education by Treasury. Enter constant "05". LJ SF AN
9 - 16	Agency Site ID [Subagency Code]	8	REQUIRED. Education assigned Code to identify GA accounts. (See Appendix A.) LJ SF AN
17 - 34	Debt Number [Agency Case Number]	18	REQUIRED. Enter the first two characters of the Agency Site ID followed by a unique number up to 12 characters in length i_borrower's SSN. (See Appendix A.) LJ SF AN
35	Action	1	REQUIRED. A=Add an address (if previously rejected or not previously submitted). U=Update an existing address.
36	Record Type	1	REQUIRED. Enter constant "2". N
37 - 66	Address, Line 1	30	REQUIRED. Current mailing address of the borrower. LJ SF AN
67 - 96	Address, Line 2	30	OPTIONAL. LJ SF AN
97 - 121	Address, City	25	REQUIRED. LJ SF AN
122 - 123	Address, State Code	2	REQUIRED. Enter the standard U.S. Postal State code from Appendix F (State Codes). Enter "!" if foreign (not "US") Country Code (Format Positions 133-135) is present. LJ AN SF
124 - 132	Address, Zip Code	9	REQUIRED. For US address, first 5 characters must be numeric and last 4 characters must either be numeric or space filled For foreign address, first 5 characters may be alpha numeric or space filled; next 4 characters may be numeric or space filled. SF LJ A N

Format Position	Field Title	Length	Description and Remarks
133 - 135	Address, Country Code	3	REQUIRED. Country code for borrower. Enter "US" for addresses in the United States, or, if a <u>foreign</u> address, enter appropriate code from Appendix E (Country Codes). LJ SF AN
136 - 200	Filler	65	REQUIRED. Space fill.

GA-TOP ALIAS NAME DETAIL RECORD

A Type 4 record (GA-TOP ALIAS NAME DETAIL RECORD) should be submitted if you are aware of a name previously used by the borrower. All the names (and name controls) will be utilized by Treasury for matching against Federal payment streams – the record will still be under the name that was used when it was certified or as subsequently updated.

Type 4 records (GA-TOP ALIAS NAME DETAIL RECORD) are used to notify Treasury of aliases. If you certify MARY SMITH, but know that her maiden name was JONES, your agency should submit a Type 4 record (MARY JONES with an alias agency name control of JONE). Treasury uses these additional name controls (along with SSN, of course) to match against the payment files - thereby increasing the possibility of offset. You only need to report the alias name once, but you can report multiple Type 4 records, as necessary (if you have someone who has either changed their name more than once or married more than once). If you do not report the alias name, your agency runs the risk of not receiving an offset because the only name you provided does not match the payment file.

If a Type 4 record is submitted, Treasury will just add the name to the existing record—the record will still be under the name that was used when it was first certified in the 1999 processing year forward or as subsequently updated. Additionally, Treasury uses the name submitted for certification by an agency in its letters to the borrowers. Therefore, an accurate name and name control is extremely important in the Certification Process.

Treasury compares the SSN and Name Control on the Federal payment streams (including Federal Tax Refunds) with the SSN and Name Control on the certification and alias name records submitted by the agency. If there is a match, an offset will occur. Therefore, a Type 4 record (GA-TOP ALIAS NAME DETAIL RECORD) should be submitted in the Certification/Reactivation Process, if you are aware of a name previously used by the borrower or, in the case of a Reactivation account, a new name control should be submitted. This will ensure that all possible names will be used in matching against the payment streams.

6.1.2.4. TOP GA Weekly Update Type 4 Detail Record

Key: RJ=right justified, LJ=left justified, SF=space filled, ZF=zero filled, AN=alphanumeric, A=alpha, N=number

Table 6-8 TOP GA Weekly Update Type 4 Record

Format Position	Field Title	Length	Description and Remarks
1 - 8	Agency ID [Agency Code]	8	REQUIRED. Code assigned to Education by Treasury. Enter constant "05". LJ SF AN
9 - 16	Agency Site ID [Subagency Code]	8	REQUIRED. Education assigned Code to identify GA accounts. (See Appendix A.) LJ SF AN
17 - 34	Debt Number [Agency Case Number]	18	REQUIRED. Enter the first two characters of the Agency Site ID followed by <u>a unique number up to 12 characters in length</u> borrower's SSN. (See Appendix A.) LJ SF AN
35	Action	1	REQUIRED. A=Add an alias name A
36	Record Type	1	REQUIRED. Enter constant "4". N
37 - 38	Sequence Number	2	REQUIRED. Enter constant "00". N
39 - 73	Last Name	35	REQUIRED. Enter the borrower's alias last name. It may contain embedded spaces. LJ SF AN
74 - 108	First Name	35	OPTIONAL. (if available). Enter the borrower's first name. It may contain embedded spaces. Hyphens are allowed but no other special characters. LJ SF AN
109	Middle Initial	1	OPTIONAL. If not needed, space fill. SF A
110 - 113	Filler	4	REQUIRED. Space fill.
114 - 121	Effective Date	8	OPTIONAL. Enter date agency received alias information. Cannot be greater than current date. Format is YYYYMMDD. N
122 - 130	Filler	9	REQUIRED. Space fill.

Format Position	Field Title	Length	Description and Remarks
131 - 134	Alias Agency Name Control [Name Control]	4	OPTIONAL. Enter the first four significant characters of the borrower's alias last name. Last names of less than four characters should be left-justified, with unused positions filled with spaces. Apostrophes and embedded spaces must be removed. A hyphen is allowed in positions 2, 3, or 4. (See Appendix A.) AN
135 - 200	Filler	66	REQUIRED. Space fill.

TOP RECORD FORMATS FOR USE IN THE WEEKLY UPDATE PROCESS

6.1.2.5. TOP GA Weekly Update Control Record

The Control Record identifies the end of the file for all records on the GA-TOP Weekly Update file. This record must appear as the last data record on the file, which is submitted to Education. If the Item Count and/or the Total Debt Amount do not balance when Education validates the file, the complete file will be rejected, and the GA will be required to submit a replacement tape. (See section on use of Weekly Update process to inactivate an account or report changes to first name and/or middle initial.)

Note: Education will reject all Type 1, Action U records that have an amount in Format Positions 135 – 146 (Education Unprocessable Error Code: BD - Amount for Type 1, Action U). Additionally, Education will reject the entire file if a GA includes the Type 1, Action U amounts in the control record or if the control record is incorrect.

Key: RJ=right justified, LJ=left justified, SF=space filled, ZF=zero filled, AN=alphanumeric, A=alpha, N=numeric

Table 6-9 TOP GA Weekly Update Control Record

Format Position	Field Title	Length	Description and Remarks
1 - 4	Record ID	4	REQUIRED. Must contain constant "CNTL". Identifies the last record on the file. A
5 - 12	Agency ID [Agency Code]	8	REQUIRED. Code assigned to Education by Treasury. Must contain constant "05". LJ SF AN
13 - 20	Agency Site ID [Subagency Code]	8	REQUIRED. Must contain code assigned by Education to identify GA accounts. (See Appendix A.) LJ SF AN
21 - 28	Item Count	8	REQUIRED. Must contain count of all Type 1, Type 2, and Type 4 records on the file. Do not include Header Record or Control Record in Item Count. RJ ZF N
29 - 42	Total Debt Amount	14	REQUIRED. Must contain the absolute value sum of all amounts in Format Positions 135 - 146 of the Type 1 records. (absolute value example: increase = 10,000; decrease = 5,000 results in an absolute value of 15,000) RJ ZF N
43 - 200	Filler	158	REQUIRED. Space fill.

6.2. DMCS to GA Outbound File Layouts

6.2.1. Agency Debt Extract

The purpose of the synchronization process is to make sure both systems have the same status (Active or Inactive) and the same balance for every debt. Previously, we accomplished this by annually decertifying and reactivating all accounts. Education will receive and forward to the GAs an Agency Debt Extract File from Treasury twice a year to reconcile the GAs' data with Treasury. The GA will need to report any corrections on a subsequent TOP Weekly Update File to Treasury.

6.2.1.1. TOP Agency Debt Extract Header (T1) Record

Table 6-10 TOP GA Agency Debt Extract T1 Record

Format Position	Field Title	Length	Description and Remarks
1 - 5	Filler	5	Blank
6 - 9	Identifier	4	T1 (2 spaces precede T1)
10 - 17	Batch Control Number	8	Unique ID for this batch (YJJJHHMM)
18 - 200	Filler	183	Blank

6.2.1.2. TOP Agency Debt Extract Type 1 Record

Table 6-11 TOP GA Agency Debt Extract Type 1 Record

Format Position	Field Title	Length	Description and Remarks
1 - 8	Agency ID	8	Code assigned to Education by Treasury.
9 - 16	Agency Site ID	8	Education assigned Code to identify GA accounts. (See Appendix A.)
17 - 34	Debt Number	18	The first two characters of the Agency Site ID followed by a <u>unique number up to 12 characters in length</u> borrower's SSN. (See Appendix A.)
35	Action	1	A = Non Joint & Several Debt Record or Primary Joint & Several Debt Record V = Secondary Joint & Several Debt Record
36	Record Type	1	
37 - 45	Tax ID Number	9	The borrower's Social Security Number (SSN) as assigned by SSA.
46 - 80	Last Name	35	The borrower's last name. It may contain embedded spaces. LJ SF AN

Format Position	Field Title	Length	Description and Remarks
81 – 115	First Name	35	The borrower's first name LJ SF AN
116	Middle Initial	1	SF A
117 - 124	Date Delinquency Began	8	The date at which the obligation was delinquent. Format is YYYYMMDD.
125 - 127	Local Contact Code	3	Constant "000". Code used to identify GA address and contact information for Treasury generated Offset Notices.
128 – 131	Filler	4	Space Filled
132 - 133	Debt/Debtor Status Indicator	2	Blank = Active, C = Closed, I = Inactive, Z = Archive
134	Pending Offset Indicator	1	Debt balance reduced by offset that has not been sent to creditor agency. Y = Offset(s) Pending, N = No Offset(s) Pending
135 – 146	Delinquent Debt Amount	12	Current debt balance
147 - 148	Debt Type	2	Constant "OD"
149	Individual/ Business	1	I = Individual, B = Business, J = Joint Business, K = Joint Individual as submitted by the agency
150	Judgment Debt	1	J = Judgment or Blank = Non Judgement
151 - 200	Filler	50	Space Filled

6.2.1.3. TOP Agency Debt Extract Control Record

Table 6-12 TOP GA Agency Debt Extract Control Record

Format Position	Field Title	Length	Description and Remarks
1 - 4	Identifier	4	TOP[] (1space follows TOP)
5 - 12	Record Count	8	The number of all detail records
13 - 26	Debt Amount	14	The sum of the debt amounts in position 135-146
27 - 34	Batch Control Number	8	Unique ID for this batch (YJJHHMM)
35 - 200	Filler	166	Blank

6.2.2. TOP GA Agency Debt Extract Transmittal File

Table 6-13 TOP GA Agency Debt Extract Transmittal

UNITED STATES DEPARTMENT OF EDUCATION
Federal Student Aid

Student Aid Internet Gateway(SAIG)
Borrower Services Mailbox: TG99999

Date: MM/DD/YY

Agency Name

Dear Treasury Offset Coordinator:

Under separate cover, we are transmitting the:
AGENCY DEBT EXTRACT FILE.

Agency Site ID:	99
Creation Date:	MM/DD/YY
Total Record Count:	141
Total Debt Amount:	63,694.28

If you have any questions regarding this matter, please contact Customer Service at 1-888-291-2160.

6.2.3. TOP Pre-Offset Address Request Summary Error Report File

This report provides the error codes and error description of the unprocessable records resulting from the processing of the TOP Pre-Offset Address Request file received from the GAs. This report file is sent to the GA's via SAIG.

Table 6-14 TOP GA Pre-Offset Address Request Summary Report

US Department of Education			
Debt Management and Collections System			
Pre Offset Address Request Summary Error Report			
PROCESSING DATE: 5/18/2016 12:00:00 AM			
Report ID: RTOP05		SUBAGENCY CODE: XX-XXXXXXXX	
SSN	Last_Name	Error_Description	Invalid_Value
Error_Description1		Number_of_Occurrences	
Control_Record_Number_of_Records		Processing_Number_of_Records	
99,999		99,999	
Total_Control_Records_Amount		Total_Processing_Amount	
99,999.99		99,999.99	
Records_Processed		Records_Processed_Amount	
99,999		99,999	
Records_Rejected		Records_Rejected_Amount	
99		999,999.99	
Records_Transmitted		Records_Transmitted_Amount	
99,999		9,999,999.99	
Report Execution Time: 5/18/2016 10:26:25 PM			

6.2.4. TOP GA Pre-Offset Address Return File

The GA Monthly Pre-Offset Address Request Record contains address information for all obligor accounts that have been matched to the IMF. The address will be appended to the end of the incoming record.

6.2.4.1. TOP GA Pre-offset Address Return Detail Record

Table 6-15 TOP GA Pre-Offset Address Return Detail Record

File Position	Field Title	Length	Description and Remarks
1-2	Agency Code	2	PRESENT. Code assigned to ED by the Treasury. Constant "05"
3-4	Subagency Code	2	PRESENT. Code assigned by ED to identify GA accounts. (See Definitions&& Part A Section 3.)
5	Subagency Priority Code	1	Leave Blank
6-9	Name Control	4	PRESENT. The first 4 significant characters of the obligor's last name. Last names of less than four characters will be left justified with unused positions blank filled.
10-19	SSN	10	Present. The obligor's Social Security Number as provided by the GA. Right justified. First numeric will be zero.
20-39	Last Name	20	Present. The obligor's Last Name as provided by the GA. Left justified and blank filled.
40-54	First Name	15	PRESENT. The obligor's First Name as provided by GA. Left justified and blank filled.
55-64	Amount Owed	10	Blank
65-66	Filler	2	PRESENT. Filled with blanks.
67-69	Local Code	3	Leave Blank
70-83	Agency Case Number	14	PRESENT. Identifies account for ED- <u>GA</u> files. NOTE: Agency Case Number will contain the following: - Positions 70-71 will contain the <u>GAED's</u> Sub agency Code - Positions 72-83 will contain a unique number up to 12 characters in length, the obligor's SSN - Positions 81-83 will contain blanks
84	Filler	1	PRESENT. Filled with a blank
85-86	Code	2	PRESENT. The Treasury will insert the appropriate code: Code Explanation 00 Record matched to IMF. Address information follows.

File Position	Field Title	Length	Description and Remarks
			01 RESERVED 02 SSN matches IMF but Name Control doesn't match. IMF Name Line data follows. 03 SSN is listed on invalid segment of the IMF or another condition causes the record to go unposted. 04-10 RESERVED
87-94	Delinquent Date	8	Filled with blanks.
95	Judgment Debt Indicator	1	Filled with blanks.
96	Filler	1	PRESENT. Filled with '1' (Master File Indicator (IRS Individual))
97-100	DMF Program	4	Filled with blanks
101-135	Street Address/Name	35	PRESENT. If the code is 00&& field contains latest mailing address of obligor. If the Codes are 01&& 02 or 03&& this field will be blank filled.
136-160	City and State	25	PRESENT. The obligor's city and state of residence if the Code equals 00: otherwise, this field will be blank filled. Note: This field may contain City/Country for foreign addresses.
161-165	Zip Code	5	PRESENT. The obligor's Zip code if the Code equals 00, otherwise&& this field will be Blank filled.

6.2.4.2. TOP GA Pre-offset Address Return Control Record

Identifies the cumulative counts and amounts of all matched and unmatched records on ED Pre-Offset Address Request file, and will appear as the last data record on that file which ED will return to the participating agency.

Table 6-16 TOP GA Pre-Offset Address Return Control Record

File Position	Field Title	Length	Description and Remarks
1-4	Record ID	4	PRESENT. Constant "CNTL". This identifies the end of the processable records.
5-12	Total Match	8	PRESENT. The cumulative record count for all records that have been correctly matched with a corresponding IMF account.
13-20	Total No Match	8	PRESENT. The cumulative record count for all records unable to be correctly matched with a corresponding IMF account.

File Position	Field Title	Length	Description and Remarks
21-94	Filler	74	PRESENT. Filled with blanks.
95-98	DMF Program Year	4	Filled with blanks.
99-165	Filler	67	PRESENT. Filled with blanks.

6.2.5. TOP GA Pre-Offset Address Return Transmittal File

Table 6-17 TOP GA Pre-Offset Address Return Transmittal

UNITED STATES DEPARTMENT OF EDUCATION Federal Student Aid	
Student Aid Internet Gateway(SAIG) Borrower Services Mailbox: TG99999	
Date: 06/07/16	
Agency Name	
Dear Treasury Offset Coordinator:	
Under separate cover, we are transmitting the: GA MONTHLY PRE-OFFSET ADDRESS RETURN FILE.	
Agency Site ID:	XX
Creation Date:	MM/DD/YY
Match Record Count:	89,200
NoMatch Record Count:	3,334
If you have any questions regarding this matter, please contact Customer Service at 1-888-291-2160.	

6.2.6. TOP GA Weekly Update Unprocessable File

ED-TOP UNPROCESSABLE HEADER RECORD, ED-TOP UNPROCESSABLE DETAIL RECORD, AND ED-TOP UNPROCESSABLE CONTROL RECORD

Upon receipt of a Weekly Update file, Education will validate all records. Those records deemed unprocessable will be returned to the GA on a separate file containing the elements as specified in Chapter 2 of this Revenue Procedure and the appropriate **alphabetic Education Unprocessable Error Codes and Descriptions** as indicated in Appendix C. Those records which are processable will be merged onto the consolidated Weekly Update File for submission to Treasury.

These records will be sent by Education, to your agency to inform you of the records, which were not processable. The unprocessable records from Education are alphabetical see Appendix C – Education Unprocessable Error Codes and Descriptions). Whenever possible, corrections should be made to the records and the records should be resubmitted.

Key: RJ=right justified, LJ=left justified, SF=space filled, ZF=zero filled, AN=alphanumeric, A=alpha, N=numeric

6.2.6.1. TOP GA Weekly Update ED Unprocessable Header Record

Table 6-18 TOP GA Weekly Update ED Unprocessable File Header Record

Format Position	Field Title	Length	Description and Remarks
1 - 4	Record ID	4	PRESENT. Will contain constant "HDR1". Identifies the first record on the file. AN
5 - 12	Agency ID [Agency Code]	8	PRESENT. Code assigned to Education by Treasury. Will contain constant "05". LJ SF AN
13 - 20	Agency Site ID [Subagency Code]	8	PRESENT. Will contain code assigned by Education to identify GA accounts. (See Appendix A.) LJ SF AN
21 - 45	File Identifier	25	PRESENT. Will contain "EDTOPWEEKLYUPDATE". LJ SF AN
46 - 53	File Creation Date	8	PRESENT. Will contain date file was created. Format is YYYYMMDD. N
54 - 221	Filler	168	PRESENT. Space filled.

6.2.6.2. TOP GA Weekly Update ED Unprocessable Detail Record

Table 6-19 TOP GA Weekly Update ED Unprocessable File Detail Record

Format Position	Field Title	Length	Description and Remarks
1 - 200	Agency Input Record	200	PRESENT. Type 1, 2, or 4 records as originally submitted.
201	TOP Error Code Designator	1	PRESENT. Will contain constant "T". AN

Format Position	Field Title	Length	Description and Remarks
202 - 221	TOP Error Codes	20	PRESENT. Will contain up to ten (10) 2 position TOP Unprocessable Error Codes. (See Appendix C and Appendix D.) RJ ZF AN

6.2.6.3. TOP GA Weekly Update ED Unprocessable Control Record

Table 6-20 TOP GA Weekly Update ED Unprocessable File Control Record

Format Position	Field Title	Length	Description and Remarks
1 - 4	Record ID	4	PRESENT. Will contain constant "CNTL". Identifies the last record on the file. A
5 - 12	Agency ID [Agency Code]	8	PRESENT. Code assigned to Education by Treasury. Will contain constant "05". LJ SF AN
13 - 20	Agency Site ID [Subagency Code]	8	PRESENT. Will contain code assigned by Education to identify GA accounts. (See Appendix A.) LJ SF AN
21 - 28	Item Count	8	PRESENT. Will contain count of all detail records. The Header Record and Control Record will not be included in Item Count. RJ ZF N
29 - 42	Total Debt Amount	14	PRESENT. Will contain the absolute value sum of all amounts in Format Positions 135 - 146 of the Type 1 records. (absolute value example: increase = 10,000; decrease = 5,000 results in an absolute value of 15,000) RJ ZF N
43 - 221	Filler	179	PRESENT. Space filled.

6.2.7. TOP GA Weekly Update Summary Report

This report provides summary level information about the errors generated as a result of processing the TOP GA Weekly Update file received from the GAs. This report file is sent to the GA's via SAIG.

Table 6-21 TOP GA Weekly Update Summary Report

US Department of Education				
Debt Management and Collection System				
RTop08_GA Weekly Update Summary				
Execution Date: 8/3/2016 11:58:04 AM				
Report ID: RTOP08				
Agency Site ID: XX File Creation Date: MM/DD/YYYY 12:00:00 AM				
InvalidField NumberOfOccurrences				
RecordsProcessedType1	RecordsProcessedType2	RecordsProcessedType4	TotalProcessedRecordsCnt	TotalProcessedRecordsAmt
42	0	0	42	10,924.10
RecordsRejectedType1	RecordsRejectedType2	RecordsRejectedType4	TotalRecordsRejectedCnt	TotalRecordsRejectedAmt
0	0	0	0	0.00
RecordsAcceptedType1	RecordsAcceptedType2	RecordsAcceptedType4	TotalRecordsAcceptedCnt	TotalRecordsAcceptedAmt
42	0	0	42	10,924.10

6.2.8. TOP GA Weekly Update Edit Error Report

This report provides the error codes generated from processing the Type 1, 2 or 4 records received on the TOP GA Weekly Update file received from the GA's. This report file is sent to the GA's via SAIG.

Table 6-22 TOP GA Weekly Update Edit Error Report

US Department of Education Debt Management and Collection System GA Weekly Update Edit Errors Report				
Execution Date: 8/3/2016 12:00:36 PM				
Report ID: RTOP09				
Agency Site ID: XX File Creation Date: MM/DD/YYYY 12:00:00 AM				
TaxID	LastName	RecordType	InvalidField	InvalidValue

6.2.9. TOP GA Weekly Update File Edit Report

This report provides the errors associated to the Header and Control records on the TOP GA Weekly Update file received from the GAs. This report file is sent to the GA's via SAIG.

Table 6-23 TOP GA Weekly Update File Edit Report

US Department of Education Debt Management and Collection System RTop16_Top Weekly Update File Edit Report				
Execution Date: 8/3/2016 12:03:08 PM				
Report ID: RTOP16				
Agency Site ID: XX File Creation Date: MM/DD/YYYY 12:00:00 AM				
HeaderRecordID	AgencyID	AgencySiteID	FileIdntfr	FileDt
HDR1	05	FL	GATOPWEEKLYUPDATE	07/25/2016
ControlRecordID	AgencyID1	AgencySiteID1	ItemCnt	TotalDbt
CNTL	05	FL	42	1092410
NOTE				
Message: NO ERROR FOUND IN HDR1 OR CNTL RECORDS				

6.2.10. TOP GA Weekly Update Warnings and Errors Report

This report notifies the GAs if any unprocessable records were created as a result of processing the TOP GA Weekly Update file. This report file is sent to the GA's via SAIG.

Table 6-24 TOP GA Weekly Update Warnings and Errors Report

US Department of Education
Debt Management and Collection System
RTop17_Top Weekly Update Warnings and Errors Report

Execution Date: 8/3/2016 12:03:08 PM

Report ID: RTOP17

Agency Site ID: XX File Creation Date: MM/DD/YYYY 12:00:00 AM

THE RECORDS ACCEPTED WILL BE TRANSMITTED TO TOP. NO ED-TOP UNPROCESSABLE FILE
WAS CREATED

6.2.11. TOP GA Weekly Update Treasury Unprocessable File

Treasury, upon receipt of the TOP GA Weekly Update file from the GA's via Education will perform validity checks on the data. Those records deemed unprocessable will be returned to Education and, in turn, to the submitting GA on a separate file containing the elements as specified in Chapter 2 of this Revenue Procedure and the appropriate **numeric Treasury Unprocessable Error Codes and Descriptions** as indicated in Appendix D. Treasury will update their database with the processable records.

These records will be sent by Treasury (via Education), to your agency to inform you of the records, which were not processable. Whenever possible, corrections should be made to the records and the records should be resubmitted.

6.2.11.1. TOP GA Weekly Update Treasury Unprocessable Header Record

Table 6-25 TOP GA Weekly Update Treasury Unprocessable File Header Record

Format Position	Field Title	Length	Description and Remarks
1 - 4	Record ID	4	PRESENT. Will contain constant "HDR1". Identifies the first record on the file. AN
5 - 12	Agency ID [Agency Code]	8	PRESENT. Code assigned to Education by Treasury. Will contain constant "05". LJ SF AN
13 - 20	Agency Site ID [Subagency Code]	8	PRESENT. Will contain code assigned by Education to identify GA accounts. (See Appendix A.) LJ SF AN
21 - 45	File Identifier	25	PRESENT. Will contain "EDTOPWEEKLYUPDATE". LJ SF AN
46 - 53	File Creation Date	8	PRESENT. Will contain date file was created. Format is YYYYMMDD. N
54 - 221	Filler	168	PRESENT. Space filled.

6.2.11.2. TOP GA Weekly Update Treasury Unprocessable Detail Record

Table 6-26 TOP GA Weekly Update Treasury Unprocessable File Detail Record

Format Position	Field Title	Length	Description and Remarks
1 - 200	Agency Input Record	200	PRESENT. Type 1, 2, or 4 6 records as originally submitted.
201	TOP Error Code Designator	1	PRESENT. Will contain constant "T". AN
202 - 221	TOP Error Codes	20	PRESENT. Will contain up to ten (10) 2 position TOP Unprocessable Error Codes. (See Appendix C and Appendix D.) RJ ZF AN

6.2.11.3. TOP GA Weekly Update Treasury Unprocessable Control Record

Table 6-27 TOP GA Weekly Update Treasury Unprocessable File Control Record

Format Position	Field Title	Length	Description and Remarks
1 - 4	Record ID	4	PRESENT. Will contain constant "CNTL". Identifies the last record on the file. A
5 - 12	Agency ID [Agency Code]	8	PRESENT. Code assigned to Education by Treasury. Will contain constant "05". LJ SF AN
13 - 20	Agency Site ID [Subagency Code]	8	PRESENT. Will contain code assigned by Education to identify GA accounts. (See Appendix A.) LJ SF AN
21 - 28	Item Count	8	PRESENT. Will contain count of all detail records. The Header Record and Control Record will not be included in Item Count. RJ ZF N
29 - 42	Total Debt Amount	14	PRESENT. Will contain the absolute value sum of all amounts in Format Positions 135 - 146 of the Type 1 records. (absolute value example: increase = 10,000; decrease = 5,000 results in an absolute value of 15,000) RJ ZF N
43 - 221	Filler	179	PRESENT. Space filled.

6.2.12. TOP GA Weekly Update Treasury Unprocessable Transmittal File

Table 6-28 TOP GA Weekly Update Treasury Unprocessable Transmittal

UNITED STATES DEPARTMENT OF EDUCATION Federal Student Aid	
Student Aid Internet Gateway(SAIG) Borrower Services Mailbox: TG37662	Date: 09/29/16
Agency Name	
Dear Treasury Offset Coordinator:	
Under separate cover, we are transmitting the: GA WEEKLY UPDATE TREASURY UNPROCESSABLE FILE.	
Agency Site ID:	CO
Creation Date:	09/29/16
Total Rec Count:	6
Dollar Amount:	467.81
Cycle Number:	1640
If you have any questions regarding this matter, please contact Customer Service at 1-888-291-2160.	

6.2.13. TOP Weekly Collection (Offset/Reversal) File

The ED-TOP WEEKLY COLLECTION (OFFSET/REVERSAL) RECORD file contains the TOP offsets and reversals reported for a cycle. Treasury is offsetting many payment streams (i.e., SSA and OPM disability and retirement benefits, IRS tax refunds, Vendor payments, etc.). As a result, it is possible that there may be many different Effective Dates of Offset/Reversal (Format Positions 205-212) within a cycle. Each offset or reversal must be posted to the borrower's account, using the effective date indicated in (Format Positions 205-212), to ensure that interest is accrued properly.

It is important to remember that if Treasury does an offset, Treasury decreases the current balance or amount that can be offset by the amount of the offset. This means if an agency certifies an account for \$2,000.00 and an offset occurs for \$500.00, Treasury's records would indicate a current balance of \$1,500.00 (\$2,000.00 minus \$500.00).

If Treasury does a reversal of an offset that occurred in the 1999 processing year forward (i.e., 1999, 2000, 2001, etc.) on an active account, Treasury will increase the TOP balance by the amount of the reversal. For example:

An account is currently active in TOP with a TOP current balance of \$3,000; an offset occurred in 1999 for \$2,500; and Treasury does a reversal for \$1,500 in the current processing year. In this example, Treasury's records would indicate that \$4,500 (\$3,000 + \$1,500 = \$4,500) is available for offset.

In the above scenario, if for some reason this balance should not be increased by the reversal amount, your agency should submit a Type 1 record with an Action of "S" to reduce the balance by the amount of the Treasury reversal (\$1,500).

If there is a reversal for an offset with a year of original offset of 1998 or earlier, Treasury will not increase the balance on an active, certified account.

Please note two fields on the ED-TOP WEEKLY COLLECTION (OFFSET/REVERSAL) DETAIL RECORD: "Total Fee Amount" (Format Positions 237-241) and "Reversal Indicator" (Format Position 33).

The definition of the "Total Fee Amount" states in part "For Type 1 Offset records, this field represents total fee amount applied to the offset. May contain more than one fee, depending on what kinds of funds are offset." The purpose of this field is so that Treasury can report more than one fee per offset. This is especially true for Federal Salary Offset, because for that process the paying agency may charge a one-time fee to set up an individual on salary offset (in addition to the per offset fee). Each year, Treasury advises Education what the per-offset fee will be for the upcoming year. This fee is charged to Education each time an offset is taken and passed on to the borrower. For the 2018 processing year, the offset fee is \$13.12 or \$17.25 per offset. The "Total Fee Amount" for Type 1 offset records, for the most part, will indicate \$13.12 or \$17.25. If an offset occurred for 2018 for \$117.25 and the fee was indicated as \$17.25 in the "Total Fee Amount" field, \$17.25 should have been applied to the offset fee and the remaining \$100.00 to interest, then principal on the borrower's account.

The definition of the "Total Fee Amount" also states in part "For Type 0 Reversal records, this field represents total fee amount that was reversed due to a full reversal. Most partial reversals will be zero filled unless the partial reversal is one in a series (two or more) of reversals, which when added together result in the total reversal of the original offset". The "Reversal Indicator" field, Format Position 33, was previously designated as filler; but beginning in 2001, it is populated with an "F" for full reversals or a "P" for partial reversals. This assists us in knowing if the reversal is a full reversal or a partial reversal. This field will be space filled for a Type 1 offset record.

If a full reversal occurs (reversal of the entire offset amount), Treasury also reverses the offset fee that they charge to Education. Beginning in 2001, when Treasury reports a full reversal and, therefore, reverses the offset fee charged to Education, they indicate an "F" (full) in the Reversal Indicator (Format Position 33), and the reversal fee in the Total Fee Amount (Format Positions 237 - 241). This means that when an agency receives a reversal record, if there is an amount in the Total Fee Amount field, Treasury is reversing the offset fee for the offset; therefore, Education will not be charged this offset fee and the borrower should not be charged the offset fee.

The effect of this depends on how your agency currently processes offsets and reversals. For example, let's say Treasury does a full reversal of an offset that occurred in 2001 for \$121.75. Treasury should indicate an "F" in the Reversal Indicator (Format Position 33) and \$11.75 in the Total Fee Amount (Format Positions 237 - 241) on the Weekly Collection File. Since when the offset occurred, \$11.75 (2001 offset fee) was applied to the offset fee and only \$110.00 of the offset was credited to principal and interest, when the reversal occurs for \$121.75, the principal and interest should only increase by a total of \$110.00. In essence, in the case of full reversals, it's like the offset never occurred, as far as the borrower's outstanding principal and interest balance is concerned.

If a partial reversal occurs, Treasury populates the Reversal Indicator with a "P" (Format Position 33), and zero fills the Total Fee Amount (Format Positions 237 - 241), and the offset fee charged to the borrower's account would still be valid. The only time you should see an amount in the "Total Fee Amount" field for a partial reversal is if the partial reversal is one in a series (two or more) of reversals, which when added together result in the total reversal of the original offset.

6.2.13.1. TOP GA Weekly Collection (Offset/Reversal) Header Record

This record will appear as the first data record on the ED-TOP Weekly Collection (Offset/Reversal) file.

Key: RJ=right justified, LJ=left justified, SF=space filled, ZF=zero filled, AN=alphanumeric, A=alpha, N=numeric

Table 6-29 TOP GA Weekly Collections File Header Record

Format Position	Field Title	Length	Description and Remarks
1 - 4	Record ID	4	PRESENT. Will contain constant "HDR1". Identifies the first record on the file. AN
5 - 12	Agency ID [Agency Code]	8	PRESENT. Code assigned to Education by Treasury. Will contain constant "05". LJ SF AN
13 - 20	Agency Site ID [Subagency Code]	8	PRESENT. Code assigned by Education to identify GA accounts. (See Appendix A.) LJ SF AN
21 - 45	File Identifier	25	PRESENT. Identifies file type. Will contain constant "EDTOPWEEKLYCOLLECTION". LJ SF AN
46 - 53	File Creation Date	8	PRESENT. Will contain the date the file was created. Format is YYYYMMDD. N
54 - 250	Filler	197	PRESENT. Space filled

6.2.13.2. TOP GA Weekly Collection (Offset/Reversal) Detail Record

The ED-TOP WEEKLY COLLECTION (OFFSET/REVERSAL) DETAIL RECORD contains all of the TOP offsets and reversals reported for a cycle. Keep in mind that Treasury is offsetting many payment streams (i.e., SSA and OPM disability and retirement benefits, IRS tax refunds, Vendor payments, etc.). It is possible that there may be many different Effective Dates of Offset/Reversal (Format Positions 205-212) within a cycle. Each offset or reversal must be posted to the borrower's account, using the effective date indicated in (Format Positions 205-212), to ensure that interest is accrued properly.

Key: RJ=right justified, LJ=left justified, SF=space filled, ZF=zero filled, AN=alphanumeric, A=alpha, N=numeric

Table 6-30 TOP GA Weekly Collections File Detail Record

Format Position	Field Title	Length	Description and Remarks						
1	Type Indicator	1	PRESENT. N Treasury will insert the appropriate code from the table below: <table border="0"> <tr> <td style="text-align: center;">TYPE</td> <td style="text-align: center;">EXPLANATION</td> </tr> <tr> <td style="text-align: center;">0</td> <td>Reversal (refund done by Treasury) for processing errors, injured spouse claims, etc.</td> </tr> <tr> <td style="text-align: center;">1</td> <td>Offset against the obligation amount.</td> </tr> </table>	TYPE	EXPLANATION	0	Reversal (refund done by Treasury) for processing errors, injured spouse claims, etc.	1	Offset against the obligation amount.
TYPE	EXPLANATION								
0	Reversal (refund done by Treasury) for processing errors, injured spouse claims, etc.								
1	Offset against the obligation amount.								
2 - 3	Agency ID [Agency Code]	2	PRESENT. Will contain constant "05". N						
4 - 5	Agency Site ID [Subagency Code]	2	PRESENT. Will contain code assigned by Education to identify GA accounts. (See Appendix A.) AN						
6 -15	TIN [SSN]	10	PRESENT. Will contain the borrower's SSN as submitted by GA. Right-justified. The first number will be zero. N RJ ZF						
16 – 27	Amount	12	PRESENT. The amount of offset or reversal. The amount will be dollars and cents. No dollar signs, commas, decimal points or negative amounts. Right-justified and unused positions will be zero filled. If Type Indicator is "0", the amount will be for a reversal. If Type Indicator is "1", the amount will be for an offset. N RJ ZF						
NOTE: THIS AMOUNT IS THE FULL OFFSET AMOUNT, INCLUDING OFFSET FEE, FOR A TYPE 1 RECORD.									
28 - 31	Year of Original Offset	4	PRESENT. Will contain the year of the offset being reversed. This field is applicable if the Type Indicator field contains a "0" (reversal); otherwise, it will be zero-filled. It will be the year of the offset that a reversal is being processed against. N ZF						
32	Individual / Business	1	REQUIRED. Will contain constant "1". N						
33	Reversal Indicator	1	PRESENT FOR REVERSALS (Type Indicator = 0). Will contain "F" for Full Reversals or "P" for Partial Reversals. Will contain a space if Type Indicator = "1". SF A						
34 – 53	Last Name	20	PRESENT. Will contain the borrower's Last Name as submitted by GA. LJ SF AN						
54 – 68	First Name	15	PRESENT. Will contain the borrower's First Name as submitted by GA. LJ SF AN						
69 – 86	Debt Number [Agency Code Number]	18	PRESENT. Identifies account for GA files. Contains the first two characters of the Agency Site ID followed by a <u>unique number up to 12 characters in length</u> borrower's SSN. LJ SF AN						
87	Filing Status	1	PRESENT. Treasury will insert the appropriate code from the table below: <table border="0"> <tr> <td style="text-align: center;">FILING STATUS</td> <td style="text-align: center;">EXPLANATION</td> </tr> <tr> <td style="text-align: center;">0</td> <td>Other than Joint Payment</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Joint Payment</td> </tr> </table>	FILING STATUS	EXPLANATION	0	Other than Joint Payment	2	Joint Payment
FILING STATUS	EXPLANATION								
0	Other than Joint Payment								
2	Joint Payment								

Format Position	Field Title	Length	Description and Remarks
88 - 122	Name *	35	PRESENT. Type 1 Offset records contain the Name Line for borrower. Type 0 Reversal records will be space filled. LJ SF AN
123 -157	Street Address *	35	PRESENT. Type 1 Offset records contain the current mailing address of the borrower. Type 0 Reversal records will be space filled. LJ SF AN
158 –182	City and State *	25	PRESENT. Type 1 Offset records contain the borrower's city and state of residence. Note: The City/State field may contain City/Country for foreign addresses. Type 0 Reversal records will be space filled. LJ SF AN
183 –191	Zip Code *	9	PRESENT. Type 1 Offset records contain the borrower's Zip Code. Type 0 Reversal records will be space filled. LJ SF AN
192 – 194	Country Code *	3	PRESENT. Type 1 Offset records contains the borrower's Country from attached list. If not applicable, will be space filled. Type 0 Reversal records will be space filled. See Appendix E for a list of appropriate codes. LJ SF AN
195 –198	TOP Name Control	4	PRESENT. Provided by TOP. LJ SF AN
<p>* NOTE: The fields denoted with an asterisk above will be space filled for Reversal records (Type Indicator = 0). In addition, Education is not currently providing addresses due to the strong possibility that some of the addresses may contain third party information and may not actually contain an address that can be used to contact the borrower.</p>			
199 – 204	Offset/Reversal Cycle	6	PRESENT. Cycle Offset/Reversal occurred. Even though a file is generated for a given cycle, as indicated in the control record, this field may contain different cycles. Format is YYYYCC. N
205 – 212	Effective Date of Offset/Reversal	8	PRESENT. Transaction must be applied to borrower's account using this date. Format is YYYYMMDD. N
213 – 216	Processing Year [DMF Program Year]	4	PRESENT. TOP Program year. Format is YYYY. N
217 – 226	TOP Trace Number	10	PRESENT. For information only. TOP identifier assigned to offsets taken. Format may be Y+4 digit year. LJ SF AN
227 – 232	Filler	6	PRESENT. Space filled.
233 – 236	Agency Name Control	4	PRESENT. Name Control provided by GA. If none provided will be space filled. LJ SF AN
237 – 241	Total Fee Amount	5	PRESENT. For Type 1 Offset records, this field represents total fee amount applied to the offset. May contain more than one fee, depending on what kinds of funds are offset. For Type 1 Offset records, the fee amount indicated should be charged to the borrower's account by the agency. For Type 0 Reversal records, this field represents total fee amount that was reversed due to a full reversal. Most partial reversals will be zero filled unless the partial reversal is one in a series (two or more) of reversals, which when added together result in the total reversal of the original offset. For Type 0 Reversal records, the fee amount, if other than zero, should be reversed on the borrower's account by the agency. RJ ZF N
242 – 248	Filler	7	PRESENT. Space filled.
249 – 250	Agency ID [Agency Code]	2	PRESENT. Will contain constant "05". N

6.2.13.3. TOP GA Weekly Collection (Offset/Reversal) Control Record

This record will appear as the last data record on the ED-TOP Weekly Collection (Offset/Reversal) file.

Key: RJ=right justified, LJ=left justified, SF=space filled, ZF=zero filled, AN=alphanumeric, A=alpha, N=numeric

Table 6-31 TOP GA Weekly Collections File Control Record

Format Position	Field Title	Length	Description and Remarks
1 - 4	Record ID	4	PRESENT. Will contain constant "CNTL". Identifies the last record on the file. A
5 - 7	Agency Site ID [Subagency Code]	3	PRESENT. Code assigned by Education to identify GA accounts. (See Appendix A.) LJ SF AN
8 - 15	Offset Record Count	8	PRESENT. The cumulative record count for all Offset records (Type Indicator = 1) on TOP Weekly Collection (Offset/Reversal) Record. The Header Record and Control Record will not be included in the Offset Record Count. RJ ZF N
16 - 29	Offset Amount	14	PRESENT. The cumulative total of all Offset Amounts (Type Indicator = 1) on TOP Weekly Collection (Offset/Reversal) Record. The amount will be entered in dollars and cents. No dollar signs, commas, decimal points or negative amounts. RJ ZF N
30 - 37	Reversal Record Count	8	PRESENT. The cumulative record count for all Reversal records (Type Indicator = 0) on TOP Weekly Collection (Offset/Reversal) Record. The Header Record and Control Record will not be included in the Reversal Record Count. RJ ZF N
38 - 51	Reversal Amount	14	PRESENT. The cumulative total of all Reversal Amounts (Type Indicator = 0) on TOP Weekly Collection (Offset/Reversal) Record. The amount will be entered in dollars and cents. No dollar signs, commas, decimal points or negative amounts. RJ ZF N

ALL OFFSET RELATED AMOUNT FIELDS INCLUDE THE FULL AMOUNT OF THE OFFSET, INCLUDING THE OFFSET FEE. Agencies should first charge the offset fee to the borrower's account and then apply the full offset amount.

52 - 90	Filler	39	PRESENT. Space filled.
91 - 100	Total Fee Amount	10	PRESENT. Represents the Total Fee Amount of all individual records. The amount will be entered in dollars and cents. No dollar signs, commas, decimal points or negative amounts. RJ ZF N
101 - 184	Filler	84	PRESENT. Space filled.
185 -190	Offset Cycle	6	PRESENT. Format is YYYYCC.
191 - 198	Ending Date of Offset Cycle	8	PRESENT. Format is YYYYMMDD.
199 - 202	TOP Program Year	4	PRESENT. Format is YYYY.
203 - 248	Filler	46	PRESENT. Space filled.
249 -250	Agency ID [Agency Code]	2	PRESENT. Will contain constant "05".

6.2.14. TOP GA Weekly Collections Transmittal File

Table 6-32 TOP GA Weekly Collections Transmittal

UNITED STATES DEPARTMENT OF EDUCATION Federal Student Aid	
Student Aid Internet Gateway(SAIG) Borrower Services Mailbox: TG99999	
Date: MM/DD/YY	
Agency Name	
Dear Treasury Offset Coordinator:	
Under separate cover, we are transmitting the: GA WEEKLY COLLECTION (OFFSET/REVERSAL) FILE.	
Agency Site ID	XX
Creation Date	MM/DD/YY
Offset Rec Count	0
Offset Rec Amount	0.00
Reversal Rec Count	5
Reversal Rec Amount	10,437.85
Cycle Number	1748
If you have any questions regarding this matter, please contact Customer Service at 1-888-291-2160.	

Section 7. Interface Assumptions and Dependencies

7.1. Assumptions

Table 7-1 Assumptions

#	Assumptions
Operational Assumptions	
1	Existing Batch Job Scheduling mechanisms will schedule the initiation of the TOP Files processing
2	Batch job failures including SFTP transmission errors captured by existing Operations processes on the DMCS server
Functional Assumptions	
1	Debt Manager database contains the information needed to create the TOP Files.
2	Guaranty Agency business rules for extracting TOP data for the TOP outbound files is beyond the scope of this document.
3	Guaranty Agency business rules for processing the TOP inbound files is beyond the scope of this document.
4	Only the most recent TOP GA Pre-offset Address Request file received from the GA will be processed by DMCS.
5	GA will submit only one TOP GA Weekly Update file each week.

7.2. Dependencies

Table 7-2 Dependencies

#	Dependencies
1	DMCS is dependent on SAIG to exchange files with the GA's.

Appendix A - Acronyms and Abbreviations

Table A-1: Acronyms and Abbreviations

Acronym	Definition
DMCS	Debt Management and Collections System
ETL	Extract Transform Load
FTS	File Transfer Server
GA	Guaranty Agency
IMF	Individual Master File (a comprehensive file containing entity information and transaction activity for each individual account)
IRS	Internal Revenue Service
SAIG	Student Aid Internet Gateway
SFTP	Secure File Transfer Protocol
SSN	Social Security Number
TD Client	TransactionDelivery Client (Software used to send and receive transmissions in a secure manner)
TOP	Treasury Offset Process

Appendix B - Agency Site ID (Subagency Code)

Agency Site ID (Subagency Code). This is a two-byte code assigned by the Department of Education to identify individual Guaranty Agencies.

Table B-1: ED Agency Site ID

ED Agency Site ID	ED Office
40	ATLANTA
50	CHICAGO
90	SAN FRANCISCO

Table B-2: GA Agency Site ID

GA Agency Site ID (Subagency Code)	State
CO	COLORADO
FL	FLORIDA
IL	ILLINOIS
KY	KENTUCKY
LA	LOUISIANA
MA	MASSACHUSETTS
ME	MAINE
MI	MICHIGAN
MO	MISSOURI
NB	NEBRASKA II (STATE 731)
NC	NORTH CAROLINA
NH	NEW HAMPSHIRE
NJ	NEW JERSEY
NM	NEW MEXICO
NY	NEW YORK
OK	OKLAHOMA
PA	PENNSYLVANIA
SM	EDUCATIONAL CREDIT MANAGEMENT CORP.
TX	TEXAS
UF	UNITED STUDENT AID FUNDS INC.

GA Agency Site ID (Subagency Code)	State
UT	UTAH
VT	VERMONT
WA	WASHINGTON
WI	WISCONSIN

Appendix C - Agency Code

Table C-1: ED Agency Code

Agency Code	Agency Name
CO708	College Assist
FL712	Florida Guarantee Loan Processing
IL717	Illinois Student Assistance Commission
KY721	Kentucky Higher Education Assistance Authority
LA722	Office of Student Financial Assistance
MA725	American Student Assistance
ME723	Finance Authority of Maine
MI726	Michigan Higher Education Assistance Authority
MO729	Missouri Dept. of Higher Education
NB731	National Student Loan Program
NC737	North Carolina State Education Assistance Authority
NH733	New Hampshire Higher Education Assistance Foundation
NJ734	New Jersey Higher Education Student Assistance Authority
NM735	New Mexico Student Loan Guaranty Corporation
NY736	New York Higher Education Services Corporation
OK740	Oklahoma College Assistance Program
PA742	American Education Services
SM927	Educational Credit Management Corporation (ECMC)
TX748	Texas Guaranteed
UF800	United Student Aid Funds
UT749	Utah Higher Education Assistance Authority
VT750	Vermont Student Assistance Corporation
WA753	Northwest Education Loan Association (NELA)
WI755	Great Lakes Higher Education Guaranty Corporation

Appendix D - TOP GA Pre-Offset Address Request Error Codes

Table D-1: TOP GA Pre-Offset Address Request Error Codes

Error ID	Error Code	Error Type	Error Description
295	PRECERT001	PRECE	SAIG Header Identifier Not Found
296	PRECERT002	PRECE	Batch Header Identifier Not Found
297	PRECERT003	PRECE	GA Header Identifier Not Found
298	PRECERT004	PRECE	Data Control Record Not Found
299	PRECERT005	PRECE	GA Trailer Identifier Not Found
300	PRECERT006	PRECE	SAIG Trailer Identifier Not Found
301	PRECERT007	PRECE	Record Count Mismatch Control/Detail
302	PRECERT008	PRECE	Record Count Mismatch Trailer/Detail
303	PRECERT009	PRECE	Detail Record Not Found
304	PRECERT010	PRECE	Invalid Agency Code
305	PRECERT011	PRECE	Invalid Priority Code
306	PRECERT012	PRECE	Invalid Name Control
307	PRECERT013	PRECE	SSN Not Numeric
308	PRECERT014	PRECE	Invalid SSN
309	PRECERT015	PRECE	Invalid Last Name
310	PRECERT016	PRECE	Invalid First Name
311	PRECERT017	PRECE	Amount Owed Not Numeric
312	PRECERT018	PRECE	Amount Less Than Minimum
313	PRECERT019	PRECE	Invalid Agency Case Number

Appendix E - TOP GA Weekly Update ED Unprocessable Error Codes

Table E-1: TOP GA Weekly ED Unprocessable Error Codes

Error code	Error Description	Reason
AA	Invalid Header or Control Record ID	Header Record must equal "HDR1". Control Record must equal "CNTL".
AB	Missing File Identifier	(Header Record) Must equal "GATOPWEEKLYUPDATE".
AC	Invalid File Creation Date	(Header Record) Must be a valid date in format YYYYMMDD and be less than the current date. Must equal the date indicated on the Transmittal Form.
AD	Invalid Record Type	Detail Record Type must equal 1, 2, or 4.
AE	Invalid Agency Site ID	Header, Detail, and Control Records) Must be alphabetic; must be valid; must equal the Agency Site ID indicated on the Transmittal Form.
AF	Invalid Debt Number	For Record Type 1, first two characters must contain the first two characters of the Agency Site ID, followed by the nine-digit Tax ID Number. May be followed by one alphabetic character. Positions 13-18 of the Debt Number must equal spaces. For Record Types 2 and 4, Debt Number must match Record Type 1.
AG	Invalid Action Code	For Record Type 1, must equal "A", "C", "Y", "S", "I", "1", "R", or "U". For Record Type 2, must equal "A" or "U". If the Action Code on Record Type 1 is "A", then Record Type 2 Action "A" must also be submitted. For Record Type 4, Action must equal "A".
AH	Invalid TaxID Number	(Record Type 1) Must be numeric. Must be valid SSN.
AI	Invalid Last Name	Record Types 1 and 4) Must contain only alphabetic characters, hyphens, apostrophes, or spaces. Must not be all spaces. The first character must be alphabetic and may not be a space.
AJ	Invalid First Name	Record Type 1, Action U, and Record Type 4) Must contain only alphabetic characters, hyphens, or spaces. Additionally, for Record Type 1, Action U, (!) is valid in correct position to reset field to spaces.
AK	Invalid Middle Initial	(Record Type 1, Action U, and Record Type 4) Must contain alphabetic characters or spaces. Additionally, for Record Type 1, Action U, (!) is valid to reset field to spaces.
AL	Invalid Date Delinquency Began	(Record Type 1) Must be numeric and earlier than the tape creation date. Must be valid date. The month must be >0 and <13. The day must be >0 and <32. This date may not be greater than the File Creation Date.
AM	Invalid Initial Delinquent Debt Amount	(Record Type 1) Must be numeric and > or = to \$25.00.

Error code	Error Description	Reason
AN	Invalid Judgement Debt Indicator	(Record Type 1) Must be "J" or space.
AO	Invalid Agency Name control	(Record Types 1 and 4) Must contain only alphabetic characters, hyphens, or spaces. Must not be all spaces. Spaces may not precede any non-space characters. The first character must be alphabetic, may not be a space, and must equal the first character of the Last Name. Apostrophes and embedded spaces must be removed. Additionally, for Record Type 4, the first character of the Alias Agency Name Control must equal the first character of the (Alias) Last Name.
AP	Invalid Address line1	(Record Type 2) Must not be all spaces. The first character cannot be a space.
AQ	Invalid City	(Record Type 2) Must not be all spaces.
AR	Invalid Effective Date	(Record Type 4) Must be a valid date in the format YYYYMMDD and not be greater than the current date.
AS	Mismatch Item Count	Control Record) Must equal computed count of all Type 1, 2, and 4 records on the file; otherwise, the entire file will be rejected. Do not include the Header and Control Records in the Item Count.
AT	Mismatch Total Debt Amount	(Control Record) Must equal computed sum of all Initial Delinquent Debt amounts of the Type 1 records; otherwise, the entire file will be rejected.
AU	Invalid/Missing Type 1 record	GA submitted a refund or refund reversal Type 1 record but failed to submit an accompanying balance increase/decrease record.
AV	Duplicate Type 1 or 2 record	If there are duplicate Type 1 or Type 2 Records, all duplicates will be rejected.
AW	Account Not certified	For Type 1 Record, Action Codes S, I, Y, and U, and for all Type 2 and 4 Records, accounts must be certified.
AX	Mismatch Delinquent Debt Adjustment	For Type 1, Action Codes S and I, must be numeric and amount must be greater than 0.
AY	Mismatch Replacement Amount	For Type 1, Action Code Y, must be numeric and > or = to \$25.00.
AZ	Invalid Amount of refund	For Type 1, Action 1, must be numeric.
BA	Invalid Amount of refund or Adjustment to refund	For Type 1, Action R, must be numeric.
BB	Invalid Year of offset	For Type 1, Action Codes 1 or R, we will accept one of the following: <ul style="list-style-type: none"> • Year = Y2017 • Payment Date = D20170501 or • Offset Trace ID = T345678901. Account must have been certified for year indicated.
BC	Debt Closed Indicator	For Type 1, Action Code U, indicator must equal "I" (to inactivate) or blank.

Error code	Error Description	Reason
BD	Amount in Action U record	For Type 1, Action Code U, no amount should be indicated in Amount field (Format Positions 135 – 146). If amount is present, record will be rejected. If amount is included in the Total Debt Amount field on the Control Record (Format Positions 29 – 42), the entire file will be rejected.
BE	New Agency SiteID Must be Spaces	Must equal spaces
BF	Missing Last Name update reason	Last Name Update Reason must be equal to 'C'
BG	Type 1A with a second type 1 record for the same brwr in the same file	New Debt - Type 1 Action Code "A" can not include any other Type 1 Action
BH	Invalid Zipcode	For US addresses, first 5 characters must be numeric; last 4 must be numeric or space-filled. For foreign addresses, first 5 characters may be alpha, numeric or space-filled and last 4 may be either numeric or space-filled.
BI	Invalid Sequence number	(Type 4 Record) Must be 00 for Add or actual sequence number for update. Available via the Alias Screen in the Client.
BJ	Invalid State Code	Must enter the Standard U.S. Postal State Code from Appendix F or ! if foreign.
BK	Invalid Certification record for a previously certified borrower	Borrower was already certified.
BN	Invalid Country Code	Invalid Address Country Code.
BO	DuplicateFiles received	Duplicate File Received.
BP	SAIG Batch Header Missing	Batch Header Identifier must equal O*BAT'.
BQ	SAIG Trailer Missing	SAIG Trailer Identifier must equal 'O*N95'.
BR	Missing at least one detail record	Incoming file from GA missing the GA Detail record.
BS	SAIG Header Missing	SAIG Header Identifier must equal 'O*N05'.
BT	Control Record Item Count Not Numeric	Control Record Item Count Not Numeric.
BU	Control Record Debt Amount Not Numeric	Control Record Debt Amount Not Numeric
BV	<u>TOP GA Borrower record does not exist on DM</u>	<u>Borrower does not exist and Type 1 detail record submitted with Action codes of C, S, I, U or Y</u>

Appendix F - Treasury Error Codes

Table F-1: Treasury Error Codes

Error Code	Description
1	Creditor Agency not specified
2	Creditor Agency Site cannot be blank
3	Invalid Debt Number or Debt Number not specified
4	Debt Type is invalid, does not exist for Creditor Agency.
5	Invalid TIN
6	Initial delinquent debt amount less than referral threshold
7	Judgment value is invalid
8	Delinquency Date is invalid
9	Invalid Business/Individual indicator
10	Last Name cannot be blank
11	Debtor Address Line 1 cannot be blank or less than 5 characters
12	Debtor City may contain only the following special letters: quote, - / .
13	Debtor State does not exist for US country code.
14	Debtor Zip is invalid for US address. Zip must contain 5 or 9 numbers.
22	Alias Last Name cannot be blank
23	Invalid Record Type/Action
33	Debtor State cannot be reset for US country code
34	Debt Status code not recognized
40	Debtor Alias Last Name cannot be reset
42	Cannot archive a Joint & Several debt at the debtor level. Must archive at the debt level.
43	Cannot update an archived debt or debtor
44	Delinquency Date cannot be greater than processing date
48	Adjustment amount cannot be blank or zero
50	Debt Account ID already exists for Agency/Agency site
53	Debt Account not found
55	Duplicate Debtor Alias
58	Debt Account ID cannot be found for Agency/Agency Site

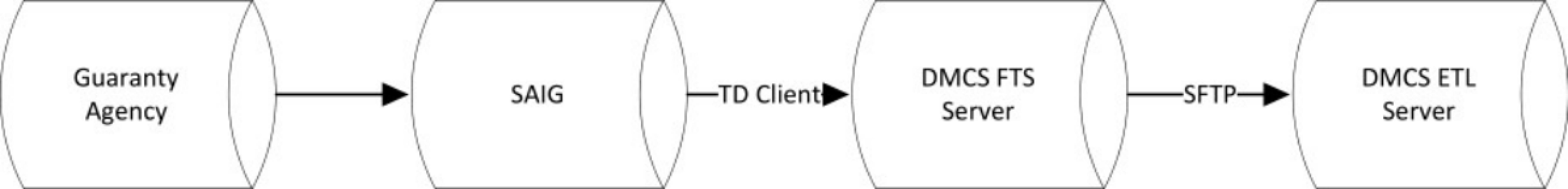
Error Code	Description
60	Debtor Alias does not exist for this Debtor
67	Debt balance cannot be less than zero
69	Debtor zip cannot be reset for country US
71	Agency Refund not processed. Offset could not be found or amount available for refund is zero or negative
72	Agency Refund Amount exceeds offset amount available. Agency Refund partially processed. (Included in Unprocessable File) (W)
73	Agency Refund Reversal not processed. Agency Refund could not be found.
74	Agency Refund Reversal Amount exceeds agency refund. Agency Refund Reversal partially processed. (Included in Unprocessable File) (W)
76	Payment Source does not exist in TOP
77	Bypass already exists for debtor
78	Bypass does not exist for debtor
81	Invalid debtor country code
85	Local Contact Code does not exist for Creditor Agency
88	Invalid Offset or Agency Refund Identifier
90	Delinquency Date is beyond the expiration date for the Debt Type
91	Override Action Code must be A, C or D
94	Override Amount not numeric
95	Override Percent not numeric
96	Override already exists for debtor
97	Override does not exist for debtor
98	Invalid Last name Update Reason - only 'C' is allowed
1C	Debt Specified for Reattach cannot be blank or does not exist
1D	Cannot Detach Debtor from Non JOS Debt
1E	TIN Number does not exist for debt
1I	Debtor already exists for Debt Account specified
1J	TIN required for input record
1P	Reattaching a debtor to a J&S Debt where debtor already exists
1S	Cannot Detach last Debtor from Debt
1T	Reattach Agency ID must be the same as Original Debt Agency ID
1U	Debtor has been previously detached
1V	Cannot Detach Debtor that has been offset

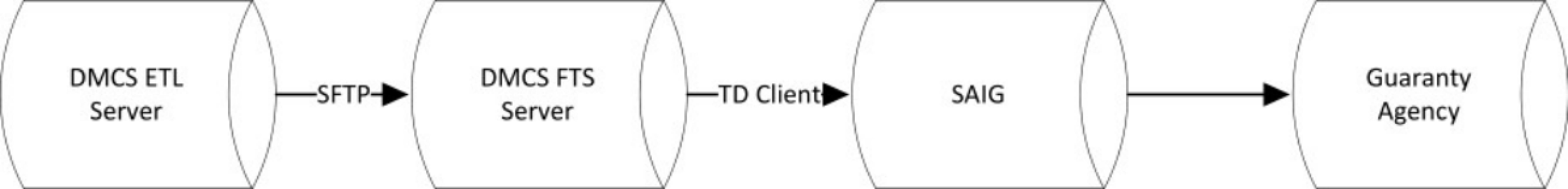
Error Code	Description
2A	Cannot process Agency Refund with Future Payment Date
2B	Foreign Zip is invalid
2C	Missing Debtor Address for new debtor
2D	Missing Debtor City for address
2E	Business/Individual indicator is missing
2F	Record must specify a valid Payment Source
2G	Missing Debtor State for US address
2H	Missing Debtor Zip for US address
2I	No update processed. Verify record type and action code
2J	Cannot modify orphan debtor status
2K	Override record must contain either an override amount or an override percent
2L	Overlay amount required for action code
2M	Specified Payment Agencies must match at least one of the Payment Sources provided
2N	Override Percent must be less than the Maximum Offset Percent specified for the Payment Source
2O	Agency specified for Reattach Cannot be blank, is Invalid or Does not exist
2P	Site specified for Reattach Cannot be blank, is Invalid or Does not exist
2Q	Invalid Last Name
2R	Delinquency Date is missing
2S	Debt Type is missing
2T	Invalid Reset Action
2U	TIN does not exist for Debt

Table F-2: Treasury Warning Codes

New TOP Codes	Description (Enhanced TOP)
W1	Payment Agency updated for the Payment Source provided (W)
W2	All Debtor Bypasses for specified Payment Source deleted (W)
W3	All Debtor Overrides for specified Payment Source deleted (W)
W4	Existing Debtor Alias has been updated (W)
W5	New Debtor Alias has been added (W)
W6	Decrease amount greater than debt balance. Debt balance reduced to zero (W)
W7	Last Name has been updated but the Alias record requested already exists for the debtor (W)
W8	Address has been updated for Debt/Debtor (W)
W9	Debt has been updated to a Joint & Several debt (W)
WB	Debt/Debtor has been inactivated as a result of current year agency refund (W)
WC	Debtor has been inactivated as a result of current year agency refund (W)
WD	Processing agency refund for debt in archived status (W)
WE	Processing agency refund reversal for debt in archived status (W)

Note: All error codes listed above will create a process failure, except 72 and 74, which will process and produce warnings to the agency.





Sender	Receiver
NSLDS	DMCS
DMCS	NSLDS
PM	DMCS
Federal Partner: Department of Health and Human Services	DMCS
Federal Partner: Department of Health and Human Services	DMCS
Federal Partner: Department of Justice (DOJ)	DMCS
Federal Partner: Department of Justice (DOJ)	DMCS
Federal Partner: Department of Treasury (Pay.gov)	DMCS
Federal Partner: Department of Treasury (Pay.gov)	DMCS
Federal Partner: Department of Treasury	DMCS
Federal Partner: Department of Treasury	DMCS
Federal Partner: Department of Treasury	DMCS
Federal Partner: Department of Treasury	DMCS
Federal Partner: Department of Treasury	DMCS
DMCS	Federal Partner: Department of Health and Human Services
DMCS	Federal Partner: Department of Housing and Urban Development
DMCS	Federal Partner: Department of Treasury (Pay.gov)
DMCS	Federal Partner: Department of Treasury (Pay.gov)
DMCS	Federal Partner: Department of Treasury
DMCS	Federal Partner: Department of Treasury
DMCS	Federal Partner: Department of Treasury
DMCS	Federal Partner: Department of Treasury
DMCS	Federal Partner: Department of Treasury (Bureau of Fiscal Service)
DMCS	Federal Partner: Internal Revenue Service
Federal Partner: Federal Reserve Bank	DMCS
Federal Partner: Social Security Administration	DMCS
Federal Loan Servicers (TIVAS)	DMCS
Federal Loan Servicers (TIVAS)	DMCS
Federal Loan Servicers (TIVAS)	DMCS
Federal Loan Servicers (NFPs)	DMCS
FMS	DMCS
FMS	DMCS
FMS	DMCS
PEPS	DMCS
Private Collection Agency	DMCS
DMCS	COD
DMCS	CEMS
DMCS	EDWA
DMCS	Federal Loan Servicers (TPD Nelnet)
DMCS	Federal Loan Servicers (TPD Nelnet)
DMCS	Federal Loan Servicers (TPD Nelnet)
DMCS	FMS
DMCS	Perkins Servicers

DMCS	Perkins Servicers
Federal Loan Servicers (TPD Nelnet)	DMCS
DMCS	Federal Loan Servicers (TIVAS)
DMCS	Private Collection Agency
Guaranty Agency	DMCS
DMCS	Guaranty Agency
DMCS	Federal Loan Servicers (NFPs)
DMCS	Federal Loan Servicers (NFPs)
DMCS	Credit Bureaus (TU, Innovis)
DMCS	Credit Bureaus (Experian; EQUIFAX)
DMCS	Educational Credit Management Corporation (ECMC)
DMCS	Educational Credit Management Corporation (ECMC)
NSLDS	DMCS
USB	DMCS
Federal Loan Servicers (TPD Nelnet)	DMCS
Private Collection Agency	DMCS
DMCS	Private Collection Agency

DMCS - Data File Name

GASLDSOP.dat
GASLDSIN.dat - (TG54561_GASLDSIN_SUBMITTAL_FILE_YYYYMMDD.DAT)
educsl.YYYYMMDD.TXT
CollectionsActivityFilev2_YYYYMMDDhhmmss.xml
EdActivityFile_MMDDYYYY.xml
CONNPRD.TREAS.PRECERT.ADDR.DATA
CONNPRD.TREAS.UNPROC.DATA
Weekly_Collections_File_Cycle_YYnn.txt
ces (HHS)
hud_out.txt
PG050_DMCREDAYYYYMMDDDB000001.DAT
FDMP.IPADRQST.AG05
FDMP.IPTOPUPD.CYYYn.AG05
FDMP.IPTOPUPD.CYYYn.AG05
FDMP.IPTOPUPD.CYYYn.AG05
FGVP.PR.ED.DS.CAIVRS-FSAID.DYMMFF.T062304
IRS1098.zip / IRS1099.txt
DOE_[FAW2 OR FVO2]_YYYYMMDD_hhmmss.txt
DMASDFIN.dat - ({tivas name}_ASSIGN_YYYYMMDDhhmmss.TXT)
DMASDFIN.dat - ({nfp name}_ASSIGN_YYYYMMDDhhmmss.TXT)
PFININOP.dat
FMS_RefundCancellations_YYYYMMDD.csv
PTCONFOP.dat
schfile.zip
PCAnnn.BILLING_UPDATE_YYYYMMDDhhmmss.TXT
PCAnnn.ACCOUNT_RETURN_YYYYMMDDhhmmss
PCAnnn.ACCOUNT_UPDATE_YYYYMMDDhhmmss.TXT
PCAnnn.MAILED_LETTERS_YYYYMMDDhhmmss.TXT
PCAnnn.RETURNED_LETTERS_20180726103928.TXT
DMCODIOP.dat (Pell.COD_Update_20180817210204.txt)
DMTPDFOP.dat - (PUT_700556_700556_{deal id}_YYYYMMDD_YYYYMMDDhhmmss.txt)
DMTPDFOP.dat - (Pay_Hist_{loan type}.txt)
DMTPDIOP.dat - (COLL_700556_700556_{deal id}_YYYYMMDDhhmmss.zip)
PSUMGLIN.dat - (TGC0358-PSUMGLIN-S6GLYYYYMMDDnnnnnn.dat)
PREFUNIN.dat - (TGC0358-TREFUNIN-REF-S6RFYYYYMMDDnnnnnn.dat)
PWIPRPIN.dat -TGC0358-PWIPRPIN-TXI-S6WTYYYYMMDDnnnnnn.dat_TXI, TGC0358-PWIPRPIN-TXO-S6WTY
DMECSIOP.dat (ECSI_Rehabs.txt)

DMTPRNIN.dat - (PUT_700580_700580_{deal id}_MMDDYYYY_MMDDYYYYhhmmss)
DMRECLOP.dat - (PUT_700556_700556_C{TIVAS}{deal id}_YYYYMMDD_YYYYMMDDnnnn.txt)
DMREHBOP.dat - (PUT_700556_700556_H{TIVAS}{deal id}_YYYYMMDD_YYYYMMDDnnnn.txt)
PCAnnn.ACCOUNT_ADJUSTMENTS_YYYYMMDDhhmmss
PCAnnn.ACCOUNT_REASSIGNMENTS_YYYYMMDDhhmmss
PCAnn.RECALL_SPLIT_YYYYMMDDhhmmss.txt
AGnnn.ACCOUNT_TRANSFER_YYYYMMDDhhmmss.txt
PCAnnn.FINANCIAL_TRANSACTIONS_YYYYMMDDhhmmss
PCAnnn.MONTHLY_ADDRESSES_YYYYMMDDhhmmss
PCAnnn.MONTHLY_INVENTORY_YYYYMMDDhhmmss.txt
New Debt Data
PCARFLIN.dat
ANCGFLIN.dat
TG{mbox}_POFATROP_{ga code}_TRANSMITTAL_YYYYMMDDhhmmss.dat
TG{mbox}_POFAFLOP_{ga code}_TOPADDRESSRETURN_YYYYMMDDhhmmss.txt
TU: PS.NDMIN.DEPTFED.zipInnovis: CbrOutput.zip
Experian: R2643.zipEquifax: CbrOutput.txt
DODMTCOP.dat
usb_[awg OR vol]_payments.YYMMDDhhmmss.txt
TPDNOTOP_YYYYMMDDhhmmss.csv
PCAnnn_YYYYMMDDhhmm_0000n_nnnn_IMG.zip
PCA610_YYYYMMDDhhmmss_nnnnn_nnnn_YYYYMMDDhhmmssnnnnn_ERROR.txt

Data File Name
Error File
Account data/updates
Destination/Institution File - GA Services
HHS Match Data
HHS Match Error File
DOJ Detailed Payment File
Annual 1098 File
Pay.gov Credit Card payment details
Pay.gov Speed Pay requests payment
Pre-offset Address Data
Treasury Offset Program (TOP) Certification Error Data
Treasury Offset Program (TOP) Federal Employee Matches
Treasury Offset Program (TOP) Update Error Data
Treasury Offset Program (TOP) Weekly Collection File
HHS Match Request
HUD Extract (CAIVRS)
Direct Debit Payment Request File
Direct Debt Payment Posting File
Pre-offset Address Request
Treasury Offset Program (TOP) Certification Data
Treasury Offset Program (TOP) Weekly Update File
Treasury Offset Program (TOP) Update Data
Do Not Pay Account Data
IRS 1098/1099
Lockbox Reversal File (FAW2/FVO2)
SSA Death Match File
Detailed Payment Information
New Debt Data (borrower, loans, financials, references)
SF1081 summary-level file
New Debt Data (borrower, loans, financials, references)
Outbound Interface Crosswalk File
Treasury Cancellation Report
Treasury Confirmation Report
PEPS Weekly School File
Account Billing Data
Account Returns
Account Updates
Mailed Letters
Returned Letters
Treasury Offset Program (TOP) Alias File
Wage Garnishment Update
Debt Management and Collections Services Weekly Updates
Customer-related information
Federal Post-Default Collections
Discharged Accounts
Discharged Accounts History
Image Data (Promissory Note)
Daily Summary
FMS Refund Interface File
Loan Transfer data
Treasury Cancellation File
Unapplied Loan Transfer data
CSBL Tranfer Records

Non-defaulted Perkins
Loan Data
Recalled Loan data and account history
Rehab Direct Loan Data
Rehab FFEL Loan Data
Submits Error Data
Account Adjustments
Account Data
Account Reassignment
Account Recalls
Account Transfers
Financial Transactions
Account Extract
Unidentified Payments
Wage Garnishment Extract
Monthly Inventory
New Debt Data
Pre-offset address request
Treasury Offset Program (TOP) Certification Data
Treasury Offset Program (TOP) Update Data
Confirmation and error data
Pre-offset address data
Treasury Offset Program (TOP) Certification Error Data
Treasury Offset Program (TOP) Update Error Data
Submits Error Data
Recalled Loan data and account history
Account Data CBR Files
Account Data CBR Files
Account Data for Bankruptcy assignments (Ch13-FFEL only)
Portfolio extract for bankruptcy monitoring
Error File
Lockbox Payment File (AWG/VOL)

Description
Account data error file.
Request for information about loan holders in default status.
Extract of data used to determine current participant eligibility.
Contains debtor's demographic information.
The file contains HHS Match Error.
Detailed payment information in a file of DOJ payment and reversal transactions.
SF1081 summary-level file corresponding to each file of DOJ payment and reversal transactions.
Credit Card payment details from Pay.gov
Pay.gov Speed Pay requests payments in the form of debit card, check, or automatic draft against either checking or
Output from request for accounts qualifying for TOP. (GSLIRS17)
New Debts from DMCS to Treasury that were not able to be loaded for certification or re-certification for offset. (GSLIRS18)
File from Treasury that has a list of records that have errors. (GSLIRS05)
This file contains debts that had an offset or are in reversal that week. Treasury has reduced the amount or increased the amount.
Selects accounts to be written to a tape file and forwards to Health and Human Services for matching the debtor's Social Security Number.
Account data related to the Credit Alert Interactive Voice Response System (CAIVRS). The data is used to send default notices.
Determine if accounts qualify for TOP (GSLIRS14).
Debts from DMCS to Treasury for certification or re-certification for offset. Offset may include garnishments, annuity payments, etc.
DMCS sends list of accounts as they are updated to Treasury. Updates include increases, decreases, refunds, adjustments, etc.
DMCS sends delinquent federal borrower account data to is sent from DMCS to DNP. Do Not Pay (DNP) is owned by the Department of Justice.
SSA Death Match File
Detailed payment information in a file of payment transactions for rehabbed and recalled borrower accounts.
SF1081 summary-level file corresponding to each file of payment transactions for rehabbed and recalled borrower accounts.
Outbound Interface (crosswalk file).
Treasury Cancellation Report Files.
Treasury Confirmation Report.
School/Partner data, PEPS Weekly School File.
File defines the billing plan for the borrower within DMCS.
PCA notification to ED that the PCA is returning the account.
File contain data to update DMCS loans with account changes such as name, address, etc.
Electronic file containing a summary of letters that were sent to a particular borrower by the PCA.
Updates DMCS system with letters that had undeliverable addresses.
Treasury Offset Program (TOP) Alias File
Wage Garnishment updates.
Data on grants and loans referred to DMCS.
Ombudsman Specialist calls DMCS to confirm defaulter information and retrieve all defaulter information. Specialist sends information to ED.
Loan information reported from DMCS regarding ED's collections portfolio
Account data for discharged accounts.
Payment history for discharged accounts.
Image Data (Promissory Note).
Daily summary of financial transactions.
FMS Refund Interface file.
Loan transfers between DMCS and other servicers and/or servicing systems.
Treasury cancellation data.
Loan transfers received and accepted by DMCS but yet to be applied.
Rehab loan data.

Loan data - reinstated GA/school loans (TPD reinstatement to DMCS when borrower has already account of DMCS
Lets PCA know of any changes to account balance, fees, penalties, etc.
Monthly account data summary.
File record to assign an account back to a PCA if it was recalled in error.
The recall file contains the borrower's name, account number (SSN) and reason for recall. The hardcopy documents
Done at least 6 times a year. Transfers all the new debts to various PCAs on pre-determined distribution criteria.
This file contains financial transactions processed by ED. This file comprises of two record types - Payment transact
This file is sent to the PCA to provide the agency with updated account address and phone information, or updated
This file identifies payments received that are unidentified
This file verifies that the ED accounts are "in -sync" with PCA accounts
This file is sent to the PCA to provide a means of reconciling the agency's records with DMCS records. This file cont
New Debt Data containing information of borrower, loans, financials and references
Certified offset of federal debts. (File contains list of accounts activated for offset). Note this is part of a pass through
Credit Bureau Notification file containing delinquent borrowers is sent to credit bureaus.
Credit Bureau Notification file containing delinquent borrowers is sent to credit bureaus.
Account Data for Bankruptcy assignments (Ch13-FFEL only)
Account Data for Bankruptcy assignments (Ch13-FFEL only)
IDP Notification
Daily Lockbox file Administrative Wage Garnishment/Voluntary (AWG/VOL)
LHN File

Data File Type	Transfer Method	Transfer Frequency
Flat File	SAIG	Weekly
Flat File	SAIG	Weekly
Flat File	ESB	Daily
Flat File	SSH file transfer protocol (SFTP)	Ad hoc
Flat File	SSH file transfer protocol (SFTP)	Ad Hoc
Flat File	Connect:Direct	Weekly
Flat File	HTTPS	Annually
Flat File	HTTPS	Daily
Flat File	SSH file transfer protocol (SFTP)	Daily
Flat File	SSH file transfer protocol (SFTP)	Annually
Flat File	SSH file transfer protocol (SFTP)	Annually
Flat File	SSH file transfer protocol (SFTP)	Monthly
Flat File	SSH file transfer protocol (SFTP)	Weekly
Flat File	SSH file transfer protocol (SFTP)	Weekly
Flat File	SSH file transfer protocol (SFTP)	Ad hoc
Flat File	SSH file transfer protocol (SFTP)	Monthly
Flat File	SSH file transfer protocol (SFTP)	Daily
Flat File	SSH file transfer protocol (SFTP)	Daily
Flat File	SSH file transfer protocol (SFTP)	Annually
Flat File	SSH file transfer protocol (SFTP)	Annually
Flat File	SSH file transfer protocol (SFTP)	Weekly
Flat File	SSH file transfer protocol (SFTP)	Weekly
Flat File	Connect:Direct	Monthly
Flat File	HTTPS	Annually
Flat File	Connect:Direct	Daily
Flat File	SAIG	Monthly
Flat File	SAIG	Weekly
Flat File	SAIG	Daily
Flat File	SAIG	Weekly
Flat File	SAIG	Daily
Flat File	SAIG	Weekly
Flat File	Manual	Weekly
Flat File	SAIG	Weekly
Flat File	HTTPS	Weekly
Flat File	Connect:Direct	Daily
Flat File	Connect:Direct	Ad hoc
Flat File	Connect:Direct	Daily
Flat File	SAIG	Weekly
Other	Manual	Ad hoc
Flat File	SAIG	Ad Hoc
Flat File	SAIG	Weekly
Flat File	SAIG	Weekly
Flat File	SAIG	Weekly
Flat File	SAIG	Daily
Flat File	SAIG	Ad hoc
Flat File	SAIG	Monthly
Flat File	SAIG	Ad hoc
Flat File	SAIG	Monthly
Flat File	SAIG	Monthly

Flat File	SAIG	Weekly
Flat File	SAIG	Ad hoc
Flat File	SAIG	Ad hoc
Flat File	SAIG	Weekly
Flat File	SAIG	Weekly
Flat File	SAIG	Daily
Flat File	Connect:Direct	Daily
Flat File	Connect:Direct	Monthly
Flat File	Connect:Direct	Weekly
Flat File	Connect:Direct	Daily
Flat File	Connect:Direct	Ad hoc
Flat File	Connect:Direct	Daily
Flat File	Connect:Direct	Weekly
Flat File	Connect:Direct	Weekly
Flat File	Connect:Direct	Weekly
Flat File	Connect:Direct	Daily
Flat File	SAIG	Daily
Flat File	SAIG	Annually
Flat File	SAIG	Annually
Flat File	SAIG	Weekly
Flat File	SAIG	Daily
Flat File	SAIG	Annually
Flat File	SAIG	Annually
Flat File	SAIG	Weekly
Flat File	SAIG	Daily
Flat File	SAIG	Ad hoc
Flat File	Connect:Direct	Monthly
Flat File	SSH file transfer protocol (SFTP)	Monthly
Flat File	SAIG	Monthly
Flat File	SAIG	Monthly
Flat File	SAIG	Weekly
Flat File	SSH file transfer protocol (SFTP)	Daily

Y
Y
Y
Y
Y
Y
Y
Y
N
N
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y

PII Element

Borrower ID, SSN, name, address
Borrower ID, SSN
Borrower ID, SSN, name, address
Borrower ID, SSN
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name
Borrower ID, SSN, name
Borrower ID, SSN, name
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name
Borrower ID, SSN, Employer Identification Number, Taxpayer Identification Number
Borrower ID, Account Holder Name, Bank Account Number, Borrower Address, Borrower Phone Number
Borrower ID, Account Holder Name, Bank Account Number, Borrower Address, Borrower Phone Number
Borrower ID, SSN, name
Borrower ID, SSN, name, account number
Borrower ID, SSN, name
Borrower ID, SSN, name
Borrower ID, SSN, Employer Identification Number (EIN), Tax Payer Identification (TIN)
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name, address, phone number, bank account number
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name, address, phone number
Name, SSN
Name, SSN
Name, SSN, Address, Phone Number
Name, Address, SSN
Name, Address, SSN
N/A
N/A
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name, address, phone number, bank account number
Borrower ID, SSN, name
Borrower ID, SSN, name, address, phone number, bank account number
Borrower ID, SSN, name
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name, address, phone number

Name, Address, SSN, Phone Number
Name, Address, SSN, Phone Number
Name, Address, SSN, Phone Number
Name, SSN
Name, Address, SSN, Date of Birth, Phone Number, Reference Name, Reference Address, Reference Phone Number
SSN
Name, Phone Number, Address, SSN
N/A
N/A
Name, SSN
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name, address, phone number
Borrower ID, SSN, name, address, phone number

PAS Interface Control Document

Version 1.7

01/15/2016

Approval Control Sheet

This Interface Control Document was reviewed and approved by the following individuals:

FSA COD Manager

Date

FSA PAS Manager

Date

Interface File Specification

Interface Name:	PAS
Interface Type:	Bi-directional
Interface Short Description:	
Source Application:	SL.gov
Destination Application:	PAS
Technical Requirement References:	N/A
Related Interface Internal Design:	N/A
Other Related Interfaces:	N/A
Interface Usage Frequency:	SL.gov Login
Interface Usage Volume:	N/A

1 Interface Overview

Federal Student Aid (FSA) requires a new system to replace the Personal Identification Number (PIN) system currently used by FSA's non-privileged users (students, parents and borrowers) to access FSA systems and data. The new system described in this document is called the Person Authentication Service (PAS). The username and password dataset for PAS is referred to as the PAS FSA ID.

The PAS implementation will be based on the IBM Security Access Manager (ISAM) commercial-off-the-shelf product, combined with custom extensions that provide a secure and seamless experience for FSA non-privileged users. The solution will be built on a scalable open architecture, allowing FSA to expand functionality in the future. This will help ensure that FSA's customer-facing applications are properly secured, using proven architecture components from FSA's existing AIMS implementation, as well as the latest industry standard security best practices.

Applications protected by PAS will leverage a combination of interfaces to integrate with PAS. These techniques include HTTP headers, web services, and PAS-provided URL links to support login and end-user self-service functions.

2 Interface Control Specification (ICS)

2.1 ICS #3 – Web Service for Internal Web Service Consumers

Interface Name	PAS Account Service
Interface Type	Simple Object Access Protocol (SOAP) Web Service proxied and secured over the Enterprise Service Bus (ESB).
Interface Short Description	PAS will provide account lookup and login web service operations for PAS protected applications to leverage.
Requesting/Source Application	PAS protected applications are the source
Responding/ Destination Application	PAS is the destination
Technical Requirement References	<p>The SOAP web service supports the following web service operations:</p> <ul style="list-style-type: none"> • AuthenticateUser – Provides a mechanism for web service consumers to authenticate PAS users (FAFSA and Student Loans only). • AuthenticateUserNumericChallenge – Provides a mechanism for web service consumers to authenticate users with the user’s numeric challenge question answer (FSAIC only). • RetrieveAccountAttributes – Provides a mechanism for service consumers to retrieve PAS account information. • VerifyAccountExists – Provides a mechanism for web service consumers to determine if a PAS account exists that matches a given set of PII. • The web service leverages the ESB for web service security
Other Related Interfaces	None
Interface Usage Frequency	On demand
Interface Usage Volume	N/A

Table 3-4 – ICS #3 – PAS Account Service

Access to the PAS Account Service is through the Federal Student Aid Enterprise Service Bus (ESB). PAS will utilize Enterprise Service Bus (ESB) platform to secure the PAS web services. The ESB platform supports authentication and authorization for all consumer-facing services. Service consumers are required to comply with its guidelines and call the service using a WS-Security approach. Please consult the ESB Enablement Guide to obtain the proper procedure in implementing WS-Security.

The web service URLs to invoke the web service will vary from environment to environment. Table 3-5 lists the web service URLs for internal web service consumers.

Environment	URL
Test (Supports Development and Test Environments)	https://test-esb.vdc.ed.gov:8443/PAS/PasAccountService
Performance Testing	https://ept-esb.vdc.ed.gov:8443/PAS/PasAccountService
Production	https://esb.vdc.ed.gov:8443/PAS/PasAccountService

Table 3-5 – Internal Web Service URLs

2.1.1 AuthenticateUser Operation

This web service operation provides a mechanism for web service consumers to authenticate PAS users.

3.3.1.1 Request Definition

Element Name	Content	Restriction	Required	Notes
RequestId	String	maxLength=100 pattern= [0-9A-Za-z_]+	N	
Username/e-mail	String	minLength=6 maxLength=50 Alpha/ Numeric; 0-9 (A- Z, a-z)	Y	

Password	String	minLength= 8 maxLength= 30 Contains at least three of the four following criteria: English uppercase letters (A-Z) English lowercase letters (a-z) Westernized Arabic numerals (0-9) Non-alphanumeric special characters !,@,#,\$,&,*() [] _ - . ? Field is case- sensitive	Y	
RetrieveAccountAttributes	Boolean	N/A	N	An option to allow service consumers to retrieve the account attributes in a single web service call when authentication is successful. Default = false

Table 3-6 – AuthenticateUser Request Definition

3.3.1.2 Response Definition

Element Name	Content	Restriction	Required	Notes
RequestId	String	maxLength=100 pattern= [0-9A-Za-z_]+	N	Value passed in on the request
Status	String	Enumerated Value List (See: Table 3-8)	Y	
ReasonCode	String	Enumerated Value List (See: Table 3-8)	N	
ReasonCodeDescription	String	maxLength=500	N	
InternalId	String	maxLength=64	N	Value passed if authentication status is Success or Success with Warnings

Table 3-7 – AuthenticateUser Response Definition

Status	ReasonCode	Description
AUTHENTICATION_SUCCESS	N/A	A successful authentication request
AUTHENTICATION_SUCCESS_WITH_WARNINGS	PASSWORD_GRACE_PERIOD	A successful authentication request, but the user's password will expire soon. The user should be alerted to this condition so they can change their password.
AUTHENTICATION_FAIL	CREDENTIAL_MISMATCH	The username and password do not match any accounts in PAS.
AUTHENTICATION_FAIL	ACCOUNT_LOCKED	The PAS account is locked.

AUTHENTICATION_FAIL	ACCOUNT_DISABLED_BY_FSA	The PAS account is disabled by FSA, and can only be re-enabled by FSA.
AUTHENTICATION_FAIL	ACCOUNT_DISABLED_BY_USER	The user previously disabled the PAS account. The user can re-enable the account on the Edit Account page.
AUTHENTICATION_FAIL	ACCOUNT_QUARANTINED	The PAS account has been quarantined by FSA, and can only be un-quarantined by FSA.
AUTHENTICATION_FAIL	ACCOUNT_EMAIL_NOT_VERIFIED	The user's email account is not verified. Accounts that have not entered data for SSA matching require a verified email address.
AUTHENTICATION_FAIL	ACCOUNT_EMAIL_NOT_VERIFIED_CANNOT_LOGIN_WITH_EMAIL	The user tried to authenticate using their email, but the user's email has not been verified. The user must verify their email prior to using the email as a logon credential.
AUTHENTICATION_FAIL	PASSWORD_EXPIRED	The password is expired and must be changed. Redirect the user PAS Edit Account.
AUTHENTICATION_FAIL	MISSING_CHALLENGE_QUESTIONS	The user's account is not properly setup, redirect the user to PAS Edit Account.
SYSTEM_ERROR	N/A	Unknown system processing exception.

Table 3-8 – AuthenticateUser Response Status Description

Element Name	Content	Restriction	Required	Notes
InternalId	String	maxLength=64	Y	
SsaMatchStatus	String	<ul style="list-style-type: none"> • FULL_MATCH • PENDING • NO_MATCH • REPORTED_DEAD 	N	Limited accounts will not return this element.
PasAccountStatus	String	<ul style="list-style-type: none"> • ENABLED • DISABLED_BY_FSA • DISABLED_BY_USER • LOCKED 	Y	
PasSuspectActivityFlag	Boolean	N/A	Y	

DeathStatus	String	<ul style="list-style-type: none"> • NOT_LISTED • LISTED_NO_PRO OF_ NO_VERIFICATI ON • LISTED_WITH_PRO OF_ OR_VERIFICATION 	N	Limited accounts will not return this element.
Email	String	minLength=0 maxLength=50	N	
EmailVerified	Boolean	N/A	N	
Ssn	String	minLength=9 maxLength=9 If non-blank 001010001-999999999	N	
BirthDate	Date	N/A	N	
FirstName	String	minLength=0 maxLength=12	N	
MiddleInitial	String	minLength=0 maxLength=1	N	
LastName	String	minLength=0 maxLength=16	N	
Address	Complex	N/A	N	
Address/MailingAddress	String	minLength=0 maxLength=35	N	
Address/City	String	minLength=0 maxLength=16	N	
Address/State	String	minLength=0 maxLength	N	

		=2		
Address/ZipCode	String	minLength = 0 maxLength =5	N	
PhoneNumber1	String	minLength= 0 maxLength= 10	N	
PhoneNumber2	String	minLength= 0 maxLength= 10	N	
LanguagePreference	String	<ul style="list-style-type: none"> • ENGLISH • SPANISH 	N	
HistoricalIdentifierSets	Complex	N/A	N	List of HistoricalIdentifierSet defined below
HistoricalIdentifierSet / SsaMatchStatus	String	<ul style="list-style-type: none"> • FULL_MATCH • PENDING • NO_MATCH • REPORTED_DEAD 	Y	
HistoricalIdentifierSet / Ssn	String	minLength= 9 maxLength= 9	Y	
HistoricalIdentifierSet / LastName	String	minLength= 0 maxLength= 16	N	
HistoricalIdentifierSet / FirstName	String	minLength= 0 maxLength= 12	N	
HistoricalIdentifierSet / BirthDate	Date	minLength= 8 maxLength= 8	Y	

Table 3-9 – PasAccountAttributesType Definition

3.3.2 AuthenticateUserNumericChallenge Operation

This web service operation provides a mechanism for web service consumers to authenticate PAS users using the numeric challenge question. This operation is designed to support numeric input from the FSAIC IVRU.

3.3.2.1 Request Definition

Element Name	Content	Restriction	Required	Notes
RequestId	String	maxLength=100 pattern= [0-9A-Za-z_]+	N	
Ssn	String	maxLength=9	Y	
BirthDate	Date		Y	
NumericChallengeAnswer	String	length=8 pattern= 0-9]+	Y	Format of answer is MMDDCCYY
RetrieveAccountAttributes	Boolean	N	N	An option to allow service consumers to retrieve the account attributes in a single web service call when authentication is successful. Default = false

Table 3-10 – AuthenticateUserNumericChallenge Request Definition

3.3.2.2 Response Definition

Element Name	Content	Restriction	Required	Notes
RequestId	String	maxLength=100 pattern= [0-9A-Za-z_]+	N	Value passed in on the request
Status	String	Enumerated Value List (See: Table 3-8)	Y	
ReasonCode	String	Enumerated Value List (See: Table 3-8)	N	

		3-8)		
PasAccountAttributes	Complex	(See: Table 3-9)	N	

Table 3-11 – AuthenticateUserNumericChallenge Response Definition

3.3.3 Retrieve Account Attributes Operation

This web service operation provides a mechanism for internal web service consumers to retrieve the details on a PAS account based on the PAS Internal ID (supplied in the iv-user HTTP header).

3.3.3.1 Request Definition

Element Name	Content	Restriction	Required	Notes
RequestId	String	maxLength=100 pattern= [0-9A-Za-z_]+	N	
InternalId	String	maxLength=64	Y	

Table 3-12 – RetrieveAccountAttributes Request Definition

3.3.3.2 Response Definition

Element Name	Content	Restriction	Required	Notes
RequestId	String	maxLength=100 pattern= [0-9A-Za-z_]+	N	Value passed in on the request
Status	String	<ul style="list-style-type: none"> • SUCCESS • NOT_FOUND • SYSTEM_ERROR 	Y	
PasAccountAttributes	Complex	(See: Table 3-9)	N	

Table 3-13 – RetrieveAccountAttributes Response Definition

3.3.4 VerifyAccountExists Operation

This web service operation provides a mechanism for web service consumers to determine if PAS has an existing account for this particular PII set.

3.3.4.1 Request Definition

Element Name	Content	Restriction	Required	Notes
RequestId	String	maxLength=100 pattern= [0-9A-Za-z_]+	N	
Ssn	String	minLength=9 maxLength=9	Y	
LastName	String	minLength=0 maxLength=16	Y	
BirthDate	Date	N/A	Y	

Table 3-14 – VerifyAccountExists Request Definition

3.3.4.2 Response Definition

Element Name	Content	Restriction	Required	Notes
RequestId	String	maxLength=100 pattern= [0-9A-Za-z_]+	N	Value passed in on the request
Status	String	<ul style="list-style-type: none"> • EXACT_MATCH_FOUND • NO_MATCH_FOUND • SYSTEM_ERROR 	Y	
InternalId	String	maxLength=64	N	

Table 3-15 – VerifyAccountExists Response Definition

3.4 ICS #4 – Web Service for External Web Service Consumers

Interface Name	PAS External Account Service
Interface Type	Simple Object Access Protocol (SOAP) Web Service proxied and secured over the Enterprise Service Bus (ESB).

Interface Short Description	PAS will provide account attribute retrieval for external service providers to leverage.
Requesting/Source Application	Service providers
Responding/ Destination Application	PAS is the destination
Technical Requirement References	<p>The SOAP web service supports the following web service operations:</p> <ul style="list-style-type: none"> • RetrieveFederatedAccountAttributes – Provides a mechanism for service providers to retrieve PAS account information. <p>The web service leverages the ESB for web service security.</p>
Other Related Interfaces	None
Interface Usage Frequency	On demand
Interface Usage Volume	N/A

Table 3-16 – External PAS Account Services

Access to PAS External Account Service is through the Federal Student Aid Enterprise Service Bus (ESB) Service Gateway. As this web service is available over the Internet, additional security measures are placed on the request. For external service consumers, the UsernameToken is replaced with a BinarySecurity Token and message Signature. Figure 3-13 provides an example WS-Security header with these security requirements. The new security header contains the following components:

- Timestamp
- BinarySecurityToken
- Signature with Timestamp & Body signed
- Uses rsa-sha512 signature and digest method

Application teams will generate a Certificate Signer Request for the AIMS/ESB team to sign. Please consult the ESB Enablement Guide to obtain the proper procedure in implementing WS-Security.

Access to PAS External Account Service is through the Federal Student Aid Enterprise Service Bus (ESB). Please refer to Section 3.3 for more information.

The web service URLs to invoke the web service will vary from environment to environment. Table 3-16 lists the web service URLs for external web service consumers.

Environment	URL
Test (Supports Development and Test Environments)	https://testfsaesb.ed.gov/PAS/PasExternalAccountService

Production	https://fsaesb.ed.gov/PAS/PasExternalAccountService
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Table 3-17 – External Web Service URLs

3.4.1 Retrieve Federated Account Attributes Operation

This web service operation provides a mechanism for external web service consumers to retrieve the details on a PAS account based on the federated ID (supplied in the SAML assertion).

3.4.1.1 Request Definition

Element Name	Content	Restriction	Required	Notes
RequestId	String	maxLength=100 pattern= [0-9A-Za-z_]+	N	
FederatedAccountId	String	maxLength=64	Y	

Table 3-18 – RetrieveFederatedAccountAttributes Request Definition

3.4.1.2 Response Definition

Element Name	Content	Restriction	Required	Notes
RequestId	String	maxLength=100 pattern= [0-9A-Za-z_]+	N	Value passed in on the request
Status	String	<ul style="list-style-type: none"> • SUCCESS • NOT_FOUND • SYSTEM_ERROR 	Y	
PasAccountAttributes	Complex	(See: Table 3-9)	N	

Table 3-19 – RetrieveFederatedAccountAttributes Response Definition

3.4.1.3 Signature and Encryption Security

The PAS metadata will contain the X.509 signing and encryption that is used between the entities to ensure that the entities can process the SAML messages and verify the signatures. All SAML messages will be digitally signed and encrypted by the X.509 certificate and validated by the receiver using the provided certificates exchanged between the two entities. In addition, all SAML responses are encrypted during transit (HTTPS).

The table below describes the Metadata of the encrypted SAML Response.

Metadata Properties	Description
---------------------	-------------

EncryptedAssertion	A signed and encrypted object containing the requested properties from the authentication request.
EncryptedData	Contains the information necessary to access the encrypted data.
EncryptionMethod	Contains the method used to encrypt the token
KeyInfo	Element contains the information that is needed to retrieve a decryption key
EncryptedKey	
CipherData	Data to be decrypted which after decryption contains the SAML assertion.
CipherValue	

Metadata Properties	Description
EncryptionMethod	Contains the method used to encrypt the token
KeyInfo	Element contains the information that is needed to retrieve a decryption key
EncryptedKey	
CipherData	Data to be decrypted which after decryption contains the SAML assertion.
CipherValue	

Table 3-20 – Encrypted Assertion Properties

3.5 ICS #5 – SAML Federated Login

3.5.1 Authentication Request

Interface Name:	Federation Authentication Request: Service Provider requesting authentication request from PAS Identity Provider (IDP)
Interface Type:	HTTP POST
Interface Short Description:	Interface allows SP to redirect user to IDP to perform authentication with user’s FSA ID
Requesting Application: or Source Application:	SP is the source application for this interface
Responding Application: or Destination Application:	IDP is the destination application for this interface
Technical Requirement References:	<ul style="list-style-type: none"> All bindings should be base64 encoded during transmission
Other Related Interfaces:	None
Interface Usage Frequency:	On demand

Interface Usage Volume:	N/A
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Table 3-21 – SAML Authentication Request

The table below describes the Metadata for the PAS Identity.

Metadata Properties	Description
<AuthnRequest>	The root element for the metadata.
AttributeConsumingServiceIndex	The index value as defined in the metadata and represents the established group of user attributes
<Issuer>	The entityID (as per metadata) of the entity issuing the authentication request.
<NameIDPolicy>	The identification policy.

Table 3-22 – PAS Metadata Properties

3.5.2 Authentication Response: Assertion

Interface Name:	PAS Federation Authentication Response: Assertion
Interface Type:	SAML
Interface Short Description:	This interface is a SAML response with an assertion token for SP consume user identity
Requesting Application: or Source Application:	IDP is the source application for this interface
Responding Application: or Destination Application:	SP is the consumer for this interface
Technical Requirement References:	<ul style="list-style-type: none"> The SP must support the SAML 2.0 protocol for the authentication process through the PAS Federation. X.509 signing and encryption is used between the entities
Other Related Interfaces:	None
Interface Usage Frequency:	On demand
Interface Usage Volume:	N/A

Table 3-23 – SAML Authentication Response: Assertion

3.5.3 Available Attributes

The table below outlines the attributes that are accessible to the SPs in the PAS Federation. The attributes are sent to the SP in the SAML assertion response. The FSA ID is part of the Name ID identifier and other attributes are part of the AttributeStatement Element.

Attribute Name	Description
FsaId	The FSA ID that is authenticated.
FederatedAccountId	The Federated ID of the PAS user that is authenticated.

Table 3-25 – Available Assertion Attributes

FSA Integration Partner

United States Department of Education

Office of Federal Student Aid

PEPS - COD
File Transfer Interface

Interface Control Document

Document Reference: PEPS-COD_ICD_R6.0

July 30, 2019

Approval Control Sheet

This Interface Control Document was reviewed and approved by the following individuals:

Mike Murray, COD System Manager

Date

Sandy England, FSA EAI Manager

Date

Once all the approvers sign this control sheet, this document will be placed under change control and will be updated as designs and development changes are made.

Document Change Control

Date	Author	Version	Change Reference
July 27, 2001	Joshua Nash	1.0	Initial Document Creation
August 14, 2001	Joshua Nash	1.1	Updated Approved By Contact to be Rana O'Brien Updated usage of Full Refresh Feed from Monthly to Initial Data Load and Disaster Recovery. Removed Requirements for PEPS to schedule batches to transfer file. Files will be processed as soon as they are saved to the directory and there are no file access handles associated with the file. Added assumption that the Change Indicator will always be correctly populated so that the Utility will not need to compare the file against the preceding file. All changes resulted from 8/10/01 Meeting with PEPS.
August 21, 2001	Joshua Nash	2.0	Updated record layout to June 1, 2001, as per discussion with Rana O'Brien, Jay R. Long, and Chris Hill on August 21, 2001. Added "Reinstate Dt" field to School Detail Record Layout. Added Reviewers from 8/21/01 meeting. Added requirement for COD to use Common Logging Utility (to be provided by COD-EAI Team) when re-assembling batch file on TSYS system. Updated Document file name/version number/date.
September 20, 2001	Joshua Nash	3.0	Updated File Name/Version/Date to reflect changes. Updated Record Layout to reflect 9/13/01 File Layout distributed by Jay R. Long. Added (M-F, excluding holidays) to Short Description to clarify PEPS Feed Frequency. Indicated that the Delta File will be created by the PEPS MQSeries Utility. Updated frequency to reflect M-F, excluding holidays. Updated File Transfer ICD Name Corrected Type in Usage Volume Section, clarified language to show that COD-installed Utility on PEPS system will filter unchanged records. Clarified language in usage scenario to show that PEPS will create a file once each day and that the PEPS Utility will create and send a delta file when a PEPS File is created and a full refresh on an as-needed basis. Updated Source System Responsibilities to clarify language, as per request by Rana O'Brien in an email on 9/7/01. Updated required JRE version to match what is currently installed on PEPS Dev Server. Updated required version of MQSeries to match what is currently installed on PEPS Dev. And Prod. Servers. Updated Error Message Listing to account for all errors associated with the PEPS MQSeries Utility. CommerceQuest messages still need to be added.

Date	Author	Version	Change Reference
September 30, 2001	Joshua Nash	4.0	Updated File Name/Version/Date to reflect new version Updated SFA Logo Added text to the short description that states that the PEPs Utility runs outside of the PEPs Application, but on the PEPs Server Updated Length of each record in the Interface Usage Volume section to 550 bytes Modified Usage Scenario to indicate that the full refresh is produced nightly. Updated Requesting (or Source) System Responsibilities 2-5 to indicate that COD and CSC will perform these tasks with PEPs approval, and that MQSeries directories will be located outside the PEPs application space. Updated Interface Assumption 1, by changing date of PEPs File Format release to September 13, 2001. Corrected typo in Start Position of School Program Record Count field in Trailer Record.
October 29, 2001	Joshua Nash	4.1	Updated File Name/Version/Date to reflect new version Updated layouts to reflect short-term solution that the COD Interfaces team will shield TSYS from the PEPs updates to the record layout. Updated usage volume to reflect that COD Interfaces team will send 450-byte records on to TSYS.
March 26, 2002	Joshua Nash	5.0	Updated Layout for Record Type 02 to include the following fields: <ul style="list-style-type: none"> • SCHOOLS JOB TITLE • CONT SYS ID Decreased size of Filler for this record to maintain 450-byte record length.
April 22, 2002	Joshua Nash	5.1	Updated Layout to reflect removal of the component that masks 2002-2003 layout changes. Layout has been replaced with the 2002-2003 layout of February 14, 2002.
June 8, 2006	Kristin Peirano	5.2	Updated Layout to reflect valid Academic Calendar values.
July 16, 2006	Scott Van Velsor	7.0	Made updates per request.
February 6, 2015	Connor McKee	14.0	Made updates to include incoming filename format and midrange staging directory to reflect PEPs files now landing on midrange. Included DI transfer parameters from midrange to mainframe.
April 23, 2019	Connor McKee	18.1	File now being sent through SAIG. Removing all MQ references, adding SAIG information.
June 20, 2019	Allan E. Thompson Jr.	18.1	Updated document to include Record Type 97 table and corrected the Trailer section to reflect the full Daily School File trailer.
July 30, 2019	Allan E. Thompson Jr.	18.1	Corrected the documentation to reflect the fact that Record Type 98 is in positions 83 - 88 and Record Type 97 is in positions 89 - 94.

Interface Control Specification

Interface Name:	PEPS Daily Participant Feed
Interface Type:	Uni-Directional
Interface Short Description:	This feed contains a full extract of all participant eligibility data contained in PEPS that is useful to COD processing. PEPS sends a complete extract on a daily basis (M-F, excluding holidays) via SAIG.
Requesting Application: or Source Application:	PEPS is the source application for this feed. Source Mailbox (PEPS): Production-TGC0363 Test-TGC0363* *- Note that while PEPS doesn't have a dedicated test mailbox, ESB will coordinate test sends from another mailbox to distinguish production vs. test files. This will be coordinated with COD beforehand.
Responding Application: or Destination Application:	COD is the destination application for this feed.. Files will be sent to COD's SAIG mailbox. Destination Mailbox (COD): Production- TG71900 Test- TGS2700 Message Class: Production- PEPSSFOP Test- PEPSSFOP
Related Unit Test Document:	
Other Related Interfaces:	
Interface Usage Frequency:	This interface is used once per day, M-F, excluding holidays.
Interface Usage Volume:	In all cases, the volume from PEPS will be close to 180,000 550-byte records per day.
File Format:	The file is sent in an ASCII format.

Interface Overview

Flow Diagram:

#	Name	Description	Object Type
1	PEPS	The PEPS System	Flat File
2	ESB	Enterprise Service Bus; Responsible for sending PEPS file to COD's SAIG Mailbox	
3	SAIG	The Student Aid Internet Gateway (SAIG) transfers files being sent among Federal Student Aid trading partners.	
4	COD	The COD System	

Usage Scenarios:

This data will be used on a daily basis to maintain school data contained in the COD System. The PEPS application produces a nightly, full refresh, highlighting changed records(M-F, excluding holidays).

Source (ESB) System Hardware/Software Components

Hardware/Software Components

#	Type	Vendor	Product Name	Version
1	Production Platform	Dell	Midrange Server	
2	Operating System	Red Hat	Red Hat Enterprise Linux	6.8
3	Transmission Protocol	btrade	TDClient	various

Source System Additional Information

#	Type	Info
1	Production System Location	Plano, TX
2	Contracting Organization	PPS
3	Developer Location	Washington, DC
#	Type	Info
1	Production System Location	Plano, TX

Responding (or Destination) System Additional Information

#	Type	Info
1	Production System Location	Amazon Web Services
2	Contracting Organization	Accenture
3	Developer Location	Washington, DC

Requesting (or Source) System Responsibilities

#	Type	Responsibility
1	System Configuration	PEPS is expected to place its daily batch feed into an agreed upon TG mailbox for processing.

Responding (or Destination) System Responsibilities

#	Type	Responsibility
1	System Configuration	COD is expected to process the file as received.

Interface Assumptions

#	Assumption
1	Assumption that PEPS File Format released February 14, 2002 is the format that will be used.
2	Assumption that batch feed will contain only one header (Chars 1-2 = 00) as the second line of the file (after the SAIG header).
3	Assumption that batch feed will contain only one trailer (Chars 1-2 = 99) as the second to last last line of the file (before the SAIG trailer).
4	Assumption that the 11 th Character of all Records excluding the header and trailer will be populated with a "Y" if the record has changed since the last file was created.

Interface Dependencies

#	Dependency

--	--

Input and Output File Specification

SAIG Header:

Start	End	Length	Type	Description	Description
1	5	5	A/N	SAIG Batch Header Identification	Constant "O*N05"
6	12	7	A/N	Destination SAIG Mailbox	Production: TG71900 Test: TGS2700
13	19	7	A	Constant spaces	Unused
20	24	5	A/N	Header Class Label	Constant: ",CLS="
25	32	8	A/N	Destination Message Class	Production: PEPSSFOP Test: PEPSSFOP
33	36	4	A/N	Header XXX Label	Constant: ",XXX"
37	41	5	A/N	Text used to identify the next field in a Batch ID	Constant: ",BAT="
		XX	A/N	The minimum record length required is 70. This can be data application to institution or spaces. Note that at least one comma must be included; the comma must follow the BAT= section if there's no batch number. Unused by COD.	
		>=70		Total record length	

PEPS Header:

Start	End	Length	Type	Description	Valid Values
1	2	2	VARCHAR2	Record Type – A two-digit code identifying the type of record in the flat file.	'00'
3	10	8	VARCHAR2	Sort School Code – Positional sort field used for sorting the Header record to the top of the file.	'00000000'
11	11	1	VARCHAR2	Data Provider Code – Indicator identifying that this file was created and submitted by PEPS.	'P'
12	19	8	DATE	Create Date – Date the file was created.	CCYYMMDD
20	29	10	VARCHAR2	Version – Version number for the extract.	CCYY.00001
30	550	521	VARCHAR2	Filler	Spaces

School Detail Record:

Start	End	Length	Type	Description	Valid Values
1	2	2	VARCHAR2	Record Type – A two-digit code identifying the type of record in the flat file.	'01'
3	10	8	VARCHAR2	OPE-ID – A unique 8-digit OPE code used to identify a location of an institution.	Will end in '00' for the main campus.
11	11	1	VARCHAR2	Change Indicator – Indicates if data has changed from the previous extract.	Y = Changed Record N = Unchanged Record
12	81	70	VARCHAR2	School Name – The name of the Main Institution.	
82	151	70	VARCHAR2	Location Name – The name of the Additional Location.	Official name for each location (main schools included).
152	186	35	VARCHAR2	Line 1 Adr – First line of the official address	
187	221	35	VARCHAR2	Line 2 Adr – Second line of the official address	
222	246	25	VARCHAR2	City – The City of the official address	
247	248	2	VARCHAR2	State – The State of the official address	Null if school is foreign
249	251	3	VARCHAR2	County – The County of the official address	Main Institution only
252	276	25	VARCHAR2	Country – The Country of the official address	Null if school is domestic
277	290	14	VARCHAR2	ZIP – The Zip+4 or the foreign mail code of the official address	Can contain characters for foreign schools
291	315	25	VARCHAR2	Foreign Province Name – Foreign Province Name	
316	316	1	VARCHAR2	Elig Status Ind – The indicator specifying whether the institution is eligible to participate in Title IV Programs	Y or N
317	317	1	VARCHAR2	Cert Type CD – The certification Status of the institution	C if the school is certified P if the school is provisionally certified N if the school is not certified
318	318	1	VARCHAR2	Approve Ind – The indicator specifies whether the location is approved for eligibility or certification	Y or N
319	320	2	VARCHAR2	Action CD – Overall Eligibility action code for the Main Institution	See http://www.ed.gov/offices/OSFAP/PEPS
321	322	2	VARCHAR2	Action Reason CD – Overall Eligibility reason code for the Main Institution	See http://www.ed.gov/offices/OSFAP/PEPS
323	330	8	DATE	Action Date – Overall Eligibility action date for the Main Institution	See http://www.ed.gov/offices/OSFAP/PEPS
331	338	8	DATE	PPA Sent Date – Program Participation Agreement Sent date	CCYYMMDD
339	346	8	DATE	PPA Execution Date – Program Participation Agreement execution date (date that SPT countersigns the PPA)	CCYYMMDD
347	354	8	DATE	PPA Expiration Date – Program Participation Agreement expiration date (date that the SPT is to expire)	CCYYMMDD
355	356	2	VARCHAR2	PGM Length – The length of the longest program offered by the	

				institution	
357	357	1	VARCHAR2	SCH TYPE – The code identifying the ownership control type of the institution	
358	359	2	VARCHAR2	Acad Cal – The academic calendar of the institution. COD will store the corresponding values listed below based on what PEPS sends: CR – COD will store a value of 1 and display CREDIT HOURS – NON STANDARD QH – COD will store a value of 2 and display QUARTER HOURS SH – COD will store a value of 3 and display SEMESTER HOURS TH – COD will store a value of 4 and display TRIMESTER HOURS CH – COD will store a value of 5 and display CLOCK HOURS OH – COD will store a value of 6 and display W/O TERM HOURS HH – COD will store a value of 7 and display CREDIT HOURS – NON STANDARD AA – COD will store a value of 8 and display ACADEMIC ASSESSMENT	CR QH SH TH CH OH HH AA
360	360	1	VARCHAR2	Ethnic Cd – The code classifying the ethnic affiliation of the institution	
361	361	1	VARCHAR2	Surety – Derived by Surety Posted Date	Y or N
362	363	2	VARCHAR2	Region CD – The Main Institution’s Region Code	
364	371	8	VARCHAR2	Cong Dist – The congressional District(s) of the Main Institution.	
372	379	8	VARCHAR2	SIC CD – SIC Code	
380	381	2	VARCHAR2	FAADS CD – FAADS Code	See http://www.ed.gov/offices/OSFAP/PEPS
382	389	8	DATE	CLOSE DT – The date a main/location is reported to be closed	CCYYMMDD
390	397	8	DATE	INIT APPR DT – The date the main/location was initially approved for Title IV eligibility	CCYYMMDD
398	405	8	DATE	Disapproval DT – The date the main/location was disapproved for Title IV eligibility	CCYYMMDD
406	407	2	VARCHAR2	Location Reason – The main/location reason for loss of Title IV eligibility	
408	408	1	VARCHAR2	System Funded Office Ind – The indicator specifies whether the School is a System Office	Y or N
409	409	1	VARCHAR2	Branch Ind – The indicator specifying whether the location is a branch	Y or N
410	411	2	VARCHAR2	Case Team CD – The Main Institutions Case Management and Oversight Case Team Code for the school.	
412	419	8	DATE	Reinstate DT – The date the Main/Location was reinstated.	CCYYMMDD
420	469	50	VARCHAR2	Web Page – Web Address for the Main School	Main Institutions only
470	550	81	VARCHAR2	Filler	Blanks

School Contact Information Record:

Start	End	Length	Type	Description	Valid Values
1	2	2	VARCHAR2	Record Type – A two-digit code identifying the type of record in the flat file.	'02'
3	10	8	VARCHAR2	OPE-ID – A unique 8-digit OPE code used to identify a location of an institution.	Will end in '00' for the main campus.
11	11	1	VARCHAR2	Change Indicator – Indicates if data has changed from the previous extract.	Y = Changed Record N = Unchanged Record
12	13	2	VARCHAR2	CONT TYPE – Two-digit code to associate the type of contact (i.e., President, Trustee, etc.)	
14	48	35	VARCHAR2	CONT STREET1 – First Line of the contact's official address	
49	83	35	VARCHAR2	CONT STREET2 – Second Line of the contact's official address	
84	108	25	VARCHAR2	CONT CITY – City of the contact's official address	
109	110	2	VARCHAR2	CONT STATE – State of the contact's official address	
111	124	14	VARCHAR2	ZIP – The Zip+4 or the foreign mail code of the contact's official address	
125	149	25	VARCHAR2	CONT PROVINCE – The foreign province name of the contact's official address	
150	174	25	VARCHAR2	CONT COUNTRY – The Foreign Country name of the contact's official address	
175	176	2	VARCHAR2	CONT SALUTATION – The salutation of the contact's official address	
177	191	15	VARCHAR2	CONT FIRST NAME – The Contact's first name	
192	192	1	VARCHAR2	CONT MI – Middle Initial for the contact	
193	222	30	VARCHAR2	CONT LAST NAME – The last name for the Contact	
223	225	3	VARCHAR2	CONT SUFFIX – The suffix for the Contact	
226	228	3	VARCHAR2	CONT AREA CODE – Area Code for the contact	
229	231	3	VARCHAR2	CONT EXCHANGE – The Exchange for the contact	
232	235	4	VARCHAR2	CONT EXT – The phone number for the Contact	
236	240	5	VARCHAR2	CONT EXT2 – The extension for the contact	
241	254	14	VARCHAR2	CONT Foreign Phone – The foreign phone number for the Contact	
255	268	14	VARCHAR2	CONT Fax – The fax number for the contact (either domestic or foreign)	
269	318	50	VARCHAR2	CONT INTERNET ADD – The Internet address for the Contact	
319	326	8	DATE	CONT EFF DTE – The date the Contact became effective (Start date)	CCYYMMDD
327	334	8	DATE	CONT END DTE – The date the Contact ended.	CCYYMMDD
335	394	60	VARCHAR2	School Job Title – The School's Job Title for the Contact at the School	Main Institutions Only.
395	402	8	VARCHAR2	CONT SYS ID – A unique system generated Identifier for Contacts	
403	550	148	VARCHAR2	Filler	Spaces

School Program Information Record:

Start	End	Length	Type	Description	Valid Values
1	2	2	VARCHAR2	Record Type – A two-digit code identifying the type of record in the flat file.	'03'
3	10	8	VARCHAR2	OPE-ID – A unique 8-digit OPE code used to identify a location of an institution.	Will end in '00' for the main campus.
11	11	1	VARCHAR2	Change Indicator – Indicates if data has changed from the previous extract.	Y = Changed Record N = Unchanged Record
12	19	8	VARCHAR2	FPELL START DT – IPOS Current Start Date for FPELL Certification	
20	27	8	VARCHAR2	FPELL END DT – IPOS Current End Date for FPELL Certification	Official name for each location (main schools included).
28	28	1	VARCHAR2	FPELL APPROV IND – IPOS Current Approval Indicator for FPELL Certification	Y or N
29	36	8	DATE	FFEL STAF START DT – IPOS Current Start Date for FFEL STAF Certification	
37	44	8	DATE	FFEL STAF END DT – IPOS Current End Date for FFEL STAF Certification	
45	45	1	VARCHAR2	FFEL STAF APPROV IND – IPOS Current Approval Indicator for FFEL STAF Certification	Y or N
46	53	8	DATE	FFEL STAF UNSUB START DT – IPOS Current Start Date for FFEL STAF UNSUB Certification	
54	61	8	DATE	FFEL STAF UNSUB END DT – IPOS Current End Date for FFEL STAF UNSUB Certification	
62	62	1	VARCHAR2	FFEL STAF UNSUB APPROV IND – IPOS Current Approval Indicator for FFEL STAF UNSUB Certification	Y or N
63	70	8	DATE	FFEL PLUS START DT – IPOS Current Start Date for FFEL PLUS Certification	
71	78	8	DATE	FFEL PLUS END DT – IPOS Current End Date for FFEL PLUS Certification	
79	79	1	VARCHAR2	FFEL PLUS APPROV IND – IPOS Current Approval Indicator for FFEL PLUS Certification	Y or N
80	87	8	DATE	FFEL SLS START DT – IPOS Current Start Date for FFEL SLS Certification	
88	95	8	DATE	FFEL SLS END DT – IPOS Current End Date for FFEL SLS Certification	
96	96	1	VARCHAR2	FFEL SLS APPROV IND – IPOS Current Approval Indicator for FFEL SLS Certification	Y or N
97	104	8	DATE	FDSL P STAF START DT – IPOS Current Start Date for FDSL P STAF Certification	
105	112	8	DATE	FDSL P STAF END DT – IPOS Current End Date for FDSL P STAF Certification	
113	113	1	VARCHAR2	FDSL P STAF APPROV IND – IPOS Current Approval Indicator for FDSL P STAF Certification	Y or N
114	121	8	DATE	FDSL P STAF UNSUB START DT – IPOS Current Start Date for FDSL P STAF UNSUB Certification	
122	129	8	DATE	FDSL P STAF UNSUB END DT – IPOS Current End Date for FDSL P STAF UNSUB Certification	

130	130	1	VARCHAR2	FDSLPL STAF UNSUB APPROV IND – IPOS Current Approval Indicator for FDSLPL STAF UNSUB Certification	Y or N
131	138	8	DATE	FDSLPL PLUS START DT – IPOS Current Start Date for FDSLPL PLUS Certification	
139	146	8	DATE	FDSLPL PLUS END DT – IPOS Current End Date for FDSLPL PLUS Certification	
147	147	1	VARCHAR2	FDSLPL PLUS APPROV IND – IPOS Current Approval Indicator for FDSLPL PLUS Certification	Y or N
148	155	8	DATE	FPERKINS START DT – IPOS Current Start Date for FPERKINS Certification	
156	163	8	DATE	FPERKINS END DT – IPOS Current End Date for FPERKINS Certification	
164	164	1	VARCHAR2	FPERKINS APPROV IND – IPOS Current Approval Indicator for FPERKINS Certification	Y or N
165	172	8	DATE	FSEOG START DT – IPOS Current Start Date for FSEOG Certification	
173	180	8	DATE	FSEOG END DT – IPOS Current End Date for FSEOG Certification	
181	181	1	VARCHAR2	FSEOG APPROV IND – IPOS Current Approval Indicator for FSEOG Certification	Y or N
182	189	8	DATE	FWS PRIV SEC EMPL START DT – IPOS Current Start Date for FWS PRIV SEC EMPL Certification	
190	197	8	DATE	FWS PRIV SEC EMPL END DT – IPOS Current End Date for FWS PRIV SEC EMPL Certification	
198	198	1	VARCHAR2	FWS PRIV SEC EMPL APPROV IND – IPOS Current Approval Indicator for FWS PRIV SEC EMPL Certification	Y or N
199	206	8	DATE	FWS JOB LOC DEV START DT – IPOS Current Start Date for FWS JOB LOC DEV Certification	
207	214	8	DATE	FWS JOB LOC DEV END DT – IPOS Current End Date for FWS JOB LOC DEV Certification	
215	215	1	VARCHAR2	FWS JOB LOC DEV APPROV IND – IPOS Current Approval Indicator for FWS JOB LOC DEV Certification	Y or N
216	223	8	DATE	FWS COM SERV START DT – IPOS Current Start Date for FWS COM SERV Certification	
224	231	8	DATE	FWS COM SERV END DT – IPOS Current End Date for FWS COM SERV Certification	
232	232	1	VARCHAR2	FWS COM SERV APPROV IND – IPOS Current Approval Indicator for FWS COM SERV Certification	Y or N
233	550	318	VARCHAR2	Filler	Spaces

School Identifier Information Record:

Start	End	Length	Type	Description	Valid Values
1	2	2	VARCHAR2	Record Type – A two-digit code identifying the type of record in the flat file.	'04'
3	10	8	VARCHAR2	OPE-ID – A unique 8-digit OPE code used to identify a location of an institution.	Will end in '00' for the main campus.
11	11	1	VARCHAR2	Change Indicator – Indicates if data has changed from the previous extract.	Y = Changed Record N = Unchanged Record
12	20	9	VARCHAR2	TIN CURRENT – The School's Current Tax Identification Number assigned by the IRS.	
21	29	9	VARCHAR2	TIN PREVIOUS -- The School's Previous Tax Identification number assigned to the school by the IRS.	
30	39	10	VARCHAR2	SPT GDUNS NBR CURRENT – The Current Grantee Duns Number as recognized by SPT.	
40	49	10	VARCHAR2	SPT GDUNS NBR PREVIOUS – The Previous Grantee Duns Number as recognized by SPT.	
50	59	10	VARCHAR2	PELL GDUNS NBR CURRENT – The current Grantee Duns Number as recognized by Pell	
60	69	10	VARCHAR2	PELL GDUNS NBR PREVIOUS – The previous Grantee Duns Number as recognized by Pell	
70	89	20	VARCHAR2	Filler	Spaces
90	99	10	VARCHAR2	FDSL P GDUNS NBR CURRENT – The current Grantee Duns Number as recognized by Direct Loans	
100	109	10	VARCHAR2	FDSL P GDUNS NBR PREVIOUS – The previous Grantee Duns Number as recognized by Direct Loans	
110	129	20	VARCHAR2	Filler	Spaces
130	139	10	VARCHAR2	CAMPUS BASED GDUNS NBR CURRENT – The current Grantee Duns Number as recognized by CAMPUS BASED	
140	149	10	VARCHAR2	CAMPUS BASED GDUNS NBR PREVIOUS – The previous Grantee Duns Number as recognized by CAMPUS BASED	
150	155	6	VARCHAR2	PELL ID CURRENT – The current number used to identify the institution for Pell Grant disbursement.	
156	161	6	VARCHAR2	PELL ID PREVIOUS – The former number used to identify the institution for Pell Grant disbursement.	
162	167	6	VARCHAR2	FFEL ID CURRENT – The current number used to identify the institution in the FFEL System.	
168	173	6	VARCHAR2	FFEL ID PREVIOUS – The former number used to identify the institution for in the FFEL System.	
174	179	6	VARCHAR2	FDSL P ID CURRENT – The current main/locations number used to identify the institution for Direct Loans.	
180	185	6	VARCHAR2	FDSL P ID PREVIOUS – The former main/locations number used to identify the institution for Direct Loans.	
186	191	6	VARCHAR2	CAMPUS BASED ID CURRENT – The current number used to identify the institution in the Campus Based System.	
192	197	6	VARCHAR2	CAMPUS BASED ID PREVIOUS – The former number used to identify the institution in the Campus Based System.	
198	203	6	VARCHAR2	FED SCHL CD CURRENT – The current Main Institutions Federal School Code.	
204	209	6	VARCHAR2	FED SCHL CD PREVIOUS – The previous Main/Locations Federal	

				School Code.	
210	213	4	VARCHAR2	FDSL P SEQ NUM CURRENT – The Main Locations Direct Loan Sequence Number.	
214	217	4	VARCHAR2	FDSL P SEQ NUM PREVIOUS – The former Main/Locations Direct Loan Sequence Number	
218	550	333	VARCHAR2	Filler	Spaces

School Direct Loan Information Record:

Start	End	Length	Type	Description	Valid Values
1	2	2	VARCHAR2	Record Type – A two-digit code identifying the type of record in the flat file.	'05'
3	10	8	VARCHAR2	OPE-ID – A unique 8-digit OPE code used to identify a location of an institution.	Main Institution Only
11	11	1	VARCHAR2	Change Indicator – Indicates if data has changed from the previous extract.	Y = Changed Record N = Unchanged Record
12	19	8	DATE	FDSLPL START DATE – The program participation agreement begin date for Direct Loans	CCYYMMDD
20	27	8	DATE	FDSLPL END DATE – The program participation agreement end date for Direct Loans	CCYYMMDD
28	29	2	VARCHAR2	FDSLPL END REASON – The reason the school ended participation with Direct Loans	
30	30	1	VARCHAR2	FDSLPL ORIG LEVEL – The origination level for Direct Loans	
31	34	4	DATE	FDSLPL ORIG LEVEL AWAD YR – The most recent origination award year.	
35	42	8	DATE	FDSLPL ORIG START DATE – The origination level start date	CCYYMMDD
43	50	8	DATE	FDSLPL ORIG END DATE – The origination level end date	CCYYMMDD
51	52	2	VARCHAR2	FDSLPL ORIG END REASON – The origination level end reason	
53	550	498	VARCHAR2	Filler	Spaces

School Change of Affiliation Information Record:

Start	End	Length	Type	Description	Valid Values
1	2	2	VARCHAR2	Record Type – A two-digit code identifying the type of record in the flat file.	'06'
3	10	8	VARCHAR2	NEW OPE-ID – A unique 8-digit OPE code used to identify a location of an institution. A new OPE-ID for after a change of affiliation.	Will end in '00' for the main campus.
11	11	1	VARCHAR2	Change Indicator – Indicates if data has changed from the previous extract.	Y = Changed Record N = Unchanged Record
12	19	8	VARCHAR2	PREVIOUS OPE-ID Unique 8-digit OPE code used to identify a location of an institution	
20	20	1	VARCHAR2	COA ACTN CD – Change of Affiliation Action Code	
21	28	8	DATE	COA EFFT DATE – Change of Affiliation Effective Date	CCYYMMDD
29	550	522	VARCHAR2	Filler	Spaces

School Accreditation Information Record:

Start	End	Length	Type	Description	Valid Values
1	2	2	VARCHAR2	Record Type – A two-digit code identifying the type of record in the flat file.	'07'
3	10	8	VARCHAR2	OPE-ID – A unique 8-digit OPE code used to identify a location of an institution.	Will end in '00' for the main campus.
11	11	1	VARCHAR2	Change Indicator – Indicates if data has changed from the previous extract.	Y = Changed Record N = Unchanged Record
12	17	6	VARCHAR2	ACCRED AGENCY – An Institutions Accrediting Agency	
18	21	4	VARCHAR2	DESIGNATION – Primary or Secondary Accreditation	
22	24	3	VARCHAR2	ACCRED TYPE – Institutional or Programmatic	
25	32	8	DATE	ACCRED END DT – End date for accreditation	CCYYMMDD
33	33	1	VARCHAR2	ACCRED ACT IND – Indicates if the Accreditation is still active	Y or N
34	550	517	VARCHAR2	Filler	Spaces

School Default Management Information Record:

Start	End	Length	Type	Description	Valid Values
1	2	2	VARCHAR2	Record Type – A two-digit code identifying the type of record in the flat file.	'08'
3	10	8	VARCHAR2	OPE-ID – A unique 8-digit OPE code used to identify a location of an institution.	Will end in '00' for the main campus.
11	11	1	VARCHAR2	Change Indicator – Indicates if data has changed from the previous extract.	Y = Changed Record N = Unchanged Record
12	15	4	VARCHAR2	COHORT Year – Three most recent Cohort Years	Main Institution only
16	19	4	NUMERIC	OFFICIAL RATE% CURRENT – The Current Default Rate (Numerator/Denominator) as a percentage	###.#
20	23	4	NUMERIC	OFFICIAL RATE % PREVIOUS – The Previous Default Rate (Numerator/Denominator) as a percentage	###.#
24	25	2	VARCHAR2	Program – Indicates the School's program participation	See Table. Main Institution Only
26	26	1	VARCHAR2	SUB CODE – Denotes rate as combined, combo, substituted, actual or average.	See Table. Main Institution Only
27	34	8	NUMERIC	TOTAL DFLT # CURRENT – Current sum of unduplicated loans in default.	Main Institution Only
35	42	8	NUMERIC	TOTAL DFLT # PREVIOUS – Previous sum of unduplicated loans in default.	Main Institution Only
43	50	8	NUMERIC	TOTAL REPAY # CURRENT – Current sum of unduplicated loans in repayment.	Main Institution Only
51	58	8	NUMERIC	TOTAL REPAY # PREVIOUS – Previous sum of unduplicated loans in repayment.	Main Institution Only.
59	66	8	NUMERIC	FFEL DFLT # CURRENT – Current sum of unduplicated FFEL loans in default.	Main Institution Only, ONLY ON DAILY FEED
67	74	8	NUMERIC	FFEL DFLT # PREVIOUS – Previous sum of unduplicated FFEL loans in default.	Main Institution Only, ONLY ON DAILY FEED
75	82	8	NUMERIC	FFEL REPAY # CURRENT – Current sum of unduplicated FFEL loans in repayment.	Main Institution Only, ONLY ON DAILY FEED
83	90	8	NUMERIC	FFEL REPAY # PREVIOUS – Previous sum of unduplicated FFEL loans in repayment.	Main Institution Only, ONLY ON DAILY FEED
91	98	8	NUMERIC	FDSL P DFLT # CURRENT – Current sum of unduplicated FDSL P loans in default.	Main Institution Only, ONLY ON DAILY FEED
99	106	8	NUMERIC	FDSL P DFLT # PREVIOUS – Previous sum of unduplicated FDSL P loans in default.	Main Institution Only, ONLY ON DAILY FEED
107	114	8	NUMERIC	FDSL P REPAY # CURRENT – Current sum of unduplicated FDSL P loans in repayment.	Main Institution Only, ONLY ON DAILY FEED
115	122	8	NUMERIC	FDSL P REPAY # PREVIOUS – Previous sum of unduplicated FDSL P loans in repayment.	Main Institution Only, ONLY ON DAILY FEED

123	130	8	NUMERIC	DUAL DFLT # CURRENT – Current sum of unduplicated DUAL loans in default.	Main Institution Only, ONLY ON DAILY FEED
131	138	8	NUMERIC	DUAL DFLT # PREVIOUS – Previous sum of unduplicated DUAL loans in default.	Main Institution Only, ONLY ON DAILY FEED
139	146	8	NUMERIC	DUAL REPAY # CURRENT – Current sum of unduplicated DUAL loans in repayment.	Main Institution Only, ONLY ON DAILY FEED
147	154	8	NUMERIC	DUAL REPAY # PREVIOUS – Previous sum of unduplicated DUAL loans in repayment.	Main Institution Only, ONLY ON DAILY FEED
155	550	396	VARCHAR2	Filler	Spaces

School Other Address Information Record:

Start	End	Length	Type	Description	Valid Values
1	2	2	VARCHAR2	Record Type – A two-digit code identifying the type of record in the flat file.	'09'
3	10	8	VARCHAR2	OPE-ID – A unique 8-digit OPE code used to identify a location of an institution.	Will end in '00' for the main campus.
11	11	1	VARCHAR2	Change Indicator – Indicates if data has changed from the previous extract.	Y = Changed Record N = Unchanged Record
12	13	2	VARCHAR2	ADDRESS TYPE – A two-digit code identifying the type of address.	See Table
14	48	35	VARCHAR2	LINE1 ADR – First line of the other address.	
49	83	35	VARCHAR2	LINE2 ADR – Second line of the other address.	
84	108	25	VARCHAR2	CITY – The City of the other address.	
109	110	2	VARCHAR2	STATE – The State of the other address.	See Table
111	135	25	VARCHAR2	COUNTRY – The country of the other address.	See Table
136	149	14	VARCHAR2	ZIP – The Zip + 4 or the foreign mail code of the other address.	
150	174	25	VARCHAR2	FOREIGN PROVINCE NAME – Foreign province name for the other address.	
175	177	3	VARCHAR2	OTHER AREA CODE – The area code for the other address.	
178	180	3	VARCHAR2	OTHER EXCHANGE – The exchange for the other address.	
181	184	4	VARCHAR2	OTHER EXT – The phone number for the other address.	
185	189	5	VARCHAR2	OTHER EXT2 – The extension for the other address.	
190	203	14	VARCHAR2	OTHER FOREIGN PHONE – The foreign [hone number for the other address.	
204	217	14	VARCHAR2	OTHER FAX – The Fax number for the other address. (either domestic or foreign)	
218	267	50	VARCHAR2	OTHER INTERNET ADR – The internet address for the other address.	
268	337	70	VARCHAR2	FSC LOC NAME – The Federal School Code Location Name.	
338	352	15	VARCHAR2	FSC CONT FIRST NAME – The First Name for the Federal School Code Contact.	
353	382	30	VARCHAR2	FSC CONT LAST NAME – The Last Name for the Federal School Code Contact.	
383	550	168	VARCHAR2	Filler	Spaces

School Experimental Site Information Record:

Start	End	Length	Type	Description	Valid Values
1	2	2	VARCHAR2	Record Type – A two-digit code identifying the type of record in the flat file.	'10'
3	10	8	VARCHAR2	OPE-ID – A unique 8-digit OPE code used to identify a location of an institution.	Will end in '00' for the main campus.
11	11	1	VARCHAR2	Change Indicator – Indicates if data has changed from the previous extract.	Y = Changed Record N = Unchanged Record
12	13	2	VARCHAR2	EXPERIMENT TYPE CODE – A two-digit code identifying the type of	See http://www.ed.gov/offices/OSFAP/PEPS/docs/tables.doc
14	21	8	DATE	EXPERIMENT TYPE START DT – Start Date for this Experimental Type.	YYYYMMDD
22	29	8	DATE	EXMERIMENT TYPE END DT – End Date for this Experimental Type.	YYYYMMDD
30	550	521	VARCHAR2	Filler	Spaces

School Closure Information Record:

Start	End	Length	Type	Description	Valid Values
1	2	2	VARCHAR2	Record Type – A two-digit code identifying the type of record in the flat file.	'11'
3	10	8	VARCHAR2	OPE-ID – A unique 8-digit OPE code used to identify a location of an institution.	Will end in '00' for the main campus.
11	11	1	VARCHAR2	Change Indicator – Indicates if data has changed from the previous extract.	Y = Changed Record N = Unchanged Record
12	19	8	DATE	CLOSURE DT CURRENT – Current School Closure Date	YYYYMMDD
20	27	8	DATE	CLOSURE DT PREVIOUS – Previous School Closure Date	YYYYMMDD
28	28	1	VARCHAR2	HISTORY CD – A digit code that identifies the type of history.	See Table
29	29	1	VARCHAR	UNAUTHORIZED LOCATION IND – Indicates if the Location is Unauthorized	Y or N
30	30	1	VARCHAR2	TUTION RECOVERY FUND – Indicates if there is a Recovery Amount.	Y or N
31	31	1	VARCHAR2	PERKINS IND – Indicates if there is a Perkins Portfolio.	Y or N
32	40	9	NUMERIC	KNOWN AMOUNT – Value of the TRF Recovered Amount	
41	41	1	VARCHAR2	STATE BOND IND – Indicates if there is a State Bond.	Y or N
42	50	9	NUMERIC	SCHOOL BOND AMOUNT – Value of the School Bond Amount	
51	100	50	VARCHAR2	RECORD HOLDER DESCRIPTION – Name of the Organization that holds the Closed School Record	
101	170	70	VARCHAR2	VERIFIED BY – Name of the Organization that Verified The School Closure.	
171	178	8	DATE	CREATED ON DT – Date of record creation	YYYYMMDD
179	186	8	DATE	MODIFIED DT – Date of last modification of the record	YYYYMMDD
187	550	364	VARCHAR2	Filler	Spaces

Federal School Code Information Records

Start	End	Length	Type	Description	Valid Values
1	2	2	VARCHAR2	RECORD TYPE – A two-digit code identifying the type of record in the flat file.	'97'
3	10	8	VARCHAR2	OPE ID – A unique 8-digit OPE code used to identify a location of an institution.	Will end in '00' for the main campus.
11	11	1	VARCHAR2	CHANGE INDICATOR – Indicates if data has changed from the previous extract.	Y = Changed Record N = Unchanged Record
12	51	40	VARCHAR2	FED SCHL CD NAME - School Name to be used for Federal School Code purposes only!	
52	81	30	VARCHAR2	FILLER	Spaces
82	116	35	VARCHAR2	FED SCHL CD ADDR 1 - First line Street Address for Federal School Code purposes only!	
117	151	35	VARCHAR2	FED SCHL CD ADDR 2 - Second line Street Address for Federal School Code purposes only!	
152	174	23	VARCHAR2	FED SCHL CD CITY - City for Federal School Code purposes only!	
175	176	2	VARCHAR2	FED SCHL CD STATE - State for Federal School Code purposes only!	See Table
177	181	5	VARCHAR2	FED SCHL CD ZIP - Zip Code for Federal School Code purposes only!	
182	185	4	VARCHAR2	FED SCHL CD ZIP+4 - +4 Code for Federal School Code purposes only!	
186	210	25	VARCHAR2	FED SCHL CD PROV - Foreign Province for Federal School Code purposes only!	
211	235	25	VARCHAR2	FED SCHL CD COUNTRY - Foreign Country for Federal School Code purposes only!	See Table
236	249	14	VARCHAR2	FED SCHL CD MAIL CD - Foreign Mail Code for Federal School Code purposes only!	
250	279	30	VARCHAR2	FED SCHL CD CONTACT FIRST NAME - Federal School Code Contact Person Name.	
280	294	15	VARCHAR2	FED SCHL CD CONTACT PHONE - Phone Number for Federal School Code Contact Person.	
295	344	50	VARCHAR2	FED SCHL CD CONTACT EMAIL - Email Address for Federal School Code Contact Person.	
345	350	6	VARCHAR2	FED SCHL CD - Federal School Code used for FAFSFA.	
351	351	1	VARCHAR2	FED SCHL CD CYCLE - Federal School Code Cycle.	See Table
352	357	6	VARCHAR2	FPELL ID - The current number used to identify the Institution for Pell Grant disbursement.	
358	363	6	VARCHAR2	FFEL ID - The current number used to identify the Institution in the FFEL system.	
364	369	6	VARCHAR2	FDSLID ID - The current number used to identify the Institution for Direct Loans	
370	375	6	VARCHAR2	CAMPUS BASED ID - The current number used to identify the Institution in the Campus Based System.	
376	376	1	VARCHAR2	FDSLID APPROVAL IND - Indicates if the School is Approved to participate in Direct Loans.	Y or N
377	377	1	VARCHAR2	FDSLID SCHL CD CYCLE - Direct Loan Code Cycle	See Table
378	383	6	VARCHAR2	FED SCHL CD XREF - Cross Reference for Federal School Code.	
384	385	2	VARCHAR2	REGION CD - The Main Institutions region code.	See Table

386	387	2	VARCHAR2	PGM LENGTH - The length of the longest program offered by the institution.	See Table
388	388	1	VARCHAR2	SCH TYPE - The code identifying the ownership control type of the institution.	See Table
389	550	162	VARCHAR2	Filler	Spaces

School Stop Payment/Monitoring Information Record:

Start	End	Length	Type	Description	Valid Values
1	2	2	VARCHAR2	Record Type – A two-digit code identifying the type of record in the flat file.	'98'
3	10	8	VARCHAR2	OPE-ID – A unique 8-digit OPE code used to identify a location of an institution.	Will end in '00' for the main campus.
11	11	1	VARCHAR2	Change Indicator – Indicates if data has changed from the previous extract.	Y = Changed Record N = Unchanged Record
12	19	8	DATE	GAPS EFFECTIVE DT – Effective date the action begins	YYYYMMDD
20	27	8	DATE	EFFECTIVE EMAIL DT – Date the Effective Email was sent.	YYYYMMDD
28	28	1	VARCHAR2	STOP PAY/MONITORING METHOD CD – The one digit code that identifies the Monitoring/Payment Method.	See Table
29	32	4	VARCHAR2	STOP PAY/MONITORING REASON CD – The four digit Reason Placed on Monitoring code.	See Table
33	40	8	DATE	REMOVAL DT – Date the Monitoring was Removed	YYYYMMDD
41	48	8	DATE	REMOVAL EMAIL DT – Date the Removal Email was sent.	YYYYMMDD
49	50	2	VARCHAR2	REMOVED FROM MONITORING REASON CD – The two-digit Reason Removed from Monitoring Code.	See Table
51	550	500	VARCHAR2	Filler	Spaces

Trailer:

Start	End	Length	Type	Description	Valid Values
1	2	2	VARCHAR2	Record Type	'99'
3	10	8	NUMBER	Sort OPE-ID	'9999999'
11	16	6	NUMBER	Total Record Count – The number of total records in the extract file.	
17	22	6	NUMBER	School Detail Record Count – The number of “School Detail” records in the extract file.	
23	28	6	NUMBER	School Contact Record Count – The number of “Contact” records in the extract file.	
29	34	6	NUMBER	School Program Record Count – The number of “Program” records in the extract file.	
35	40	6	NUMBER	School Identifier Record Count – The number of “Identifier” records in the extract file.	
41	46	6	NUMBER	Direct Loan Record Count – The number of “Direct Loan” records in the extract file.	
47	52	6	NUMBER	Change of Affiliation Record Count – The number of “Affiliation” records in the extract file.	
53	58	6	NUMBER	Accreditation Record Count – The number of “Accreditation” records in the extract file.	
59	64	6	NUMBER	Default Mgmt Record Count – The number of “Default Mgmt” records in the extract file.	
65	70	6	NUMBER	Other Addresses Record Count – The number of “Other Addresses” records in the extract file.	
71	76	6	NUMBER	Experimental Site Record Count – The number of “Experimental Sites” records in the extract file.	
77	82	6	NUMBER	School Closure Record Count – The number of “School Closure” records in the extract file.	
83	88	6	NUMBER	Stop Payment/Monitoring Record Count – The number of “Stop Payment/Monitoring” records in the extract file.	
89	94	6	NUMBER	Federal School Code Record Count - The number of “Federal School Code” records in the extract file.	
95	550	456	VARCHAR2	Filler	Spaces

SAIG Trailer:

Start	End	Length	Type	Description	Description
1	5	5	A/N	SAIG Batch Trailer Identification	Constant “O*N95”
6	12	7	A/N	Destination SAIG Mailbox	Production: TG71900 Test: TGS2700
13	19	7	A	Constant spaces	Unused
20	24	5	A/N	Trailer Class Label	Constant: “,CLS=”

Start	End	Length	Type	Description	Description
25	32	8	A/N	Destination Message Class	Varies based on file type
33	36	4	A/N	Trailer XXX Label	Constant: ",XXX"
37	41	5	A/N	Text used to identify the next field in a Batch ID	Constant: ",BAT="
		XX	A/N	The minimum record length required is 70. This can be data application to institution or spaces. Note that at least one comma must be included; the comma must follow the BAT= section if there's no batch number. Unused by COD.	
		>=70		Total record length	

Error Messages

Issues and Additional Considerations

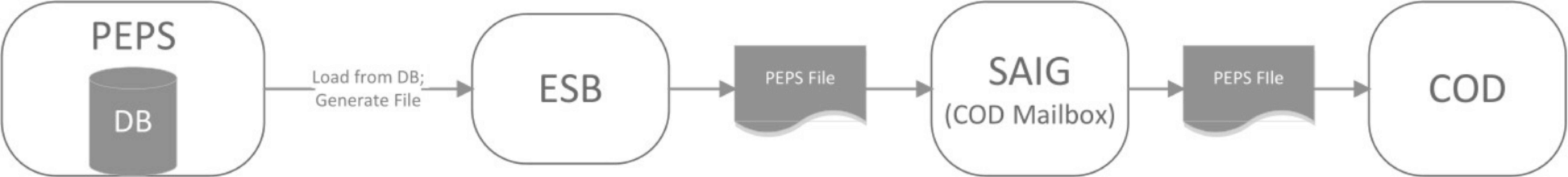
Raised By	Issue	Date Needed	Resolution/Answer	Date Completed	Resolved By

Acronyms

Acronym	Value
SPT	School Participation Team
FDSL P STAF	William D. Ford Federal District Student Loan Program Stafford
FDSL P PLUS	William D. Ford Federal District Student Loan Program Plus
FWS PRIV SEC EMPL	Federal Work Study Private Sector Employment
FWS JOB LOC DEV	Federal Work Study Job Location and Development Program
FWS COM SERV	Federal Work Study Community Service

Reviewers

Name	Date	Team
Scott Van Velsor	1/1/2007	COD
Connor Mckee	6/20/2019	COD



United States Department of Education
Office of Federal Student Aid

**Perkins Liquidation Tracking & Excess Liquid Capital
FMSS Data File
Interface Control Document
Version 10.0**

Document Reference:
December 22, 2021

Document Change Control

Date	Author	Version	Change Reference
10/10/2017	Lydia Yi	1.0	Initial Version
10/23/2017	Lydia Yi	2.0	Second version after ICD meeting on 10/17/17
11/13/2017	Lydia Yi	3.0	Third version after FSA comments
12/04/2017	Lydia Yi	4.0	Corrected batch ID example to 17 zeroes
12/12/2017	Lydia Yi	5.0	Updated file name and updated HP Midrange Server DL580, Red Hat 6.9 and Websphere MQ 8.0.0.5
3/9/2018	Emma Sales	6.0	Updated based on conversations with FSA.
3/19/2018	Oscar Garza	7.0	Correcting Destination File names from FMS updates
10/26/2021	Meet Patel Amy Lebrecht	8.0	Updates to include UEI
11/15/2021	Meet Patel Amy Lebrecht	9.0	Updates to FMSS Payment Data File, Assumptions
12/22/2021	Meet Patel Amy Lebrecht	10.0	Updates made to the position of fields

Interface Control Specification

Interface Name:	FMSS File
Interface Type:	Uni-Directional - Incoming
Interface Short Description:	This document defines the processes utilized to receive and process the FMSS file sent by FMS via SAIG.
Source Application:	<p>FMSS is the source of payment data coming in to COD. FMS Mailbox (TEST): TGF4949; Message Class: TEDCAPOP FMS Mailbox (PROD):TGC0358; Message Class: PEDCAPOP</p> <p>: DOED_PERKINS_REFUNDS_MMDDYYYYHHMMSS.txt (Where YYYY = year, MM = month, DD = date, HH = hour, MI = minute, SS)</p>
Destination Application:	<p>COD is the destination application for the FMSS File.</p> <p>COD-CB TG Mailbox (TEST): TGT4377 COD-CB TG Mailbox (PROD): TGT3300</p> <p>PROD - Message Class: PEDCAPOP TEST - Message Class: TEDCAPOP</p> <p>File Name: FMS.PERKINS.LIQUIDATION.DYYYYMMDD.THHMMSS.RXXX (Where YYYY = year, MM = month, DD = date, HH = hour, MM = minute, SS = section, and XXX = 3 random digits.)</p> <p>TEST - DPATH: /acn/saig/TGT4377/financials/ FMS.PERKINS.LIQUIDATION.DYYYYMMDD.THHMMSS.RXXX</p> <p>PROD - DPATH: /apps/batch/staging/financials/FMS.PERKINS.LIQUIDATION.DYYYYMMDD.THHMMSS.RXXX</p>
Functional Requirement References:	<p>Group 5 Perkins Liquidation Tracking General Design Document (GDD) and Requirements Definition Document (RDD) – CR 4110 Group 6 Excess Liquid Capital General Design Document (GDD) and Requirements Definition Document (RDD) – CR 4110</p>
Related Unit Test Document:	N/A
Other Related Interfaces:	
Interface Usage Frequency:	FMSS will upload the file to Edsecureftp Server COD daily (including weekends) at 05:15 am EST. FMS retrieves the file from Edsecureftp Server and sends the file to COD daily (including weekends) at 8.30 AM EST
Interface Usage Volume:	<p>Average Number of Records: Estimated Peak Number of Records:</p>

Interface Overview- FMS Data File Processing

Note: FMSS file is passing via Edsecureftp Server to FMS.

Flow Diagram Description

1. FMSS will transmit the file to Edsecureftp Server.
2. FMS will retrieve the file from Edsecureftp Server and transmit the FMSS Data file over to the COD's TG Mailbox via SAIG.
3. ESB will transfer FMSS file to COD TG Mailbox. Please note ESB runs a script to take file from FMS mailbox and place it destination mailbox which is listed in the header information (comes from FMSS). Header information includes message class and destination mailbox: PEDCAPOP (Prod Mailbox : TGT3300); Test: TEDCAPOP (Test mailbox: TGT4377COD will receive and process the FMSS Data File.

Source System (FMS) Hardware/Software Components

#	Type	Vendor	Product Name	Version
1	Production Platform	Red Hat	Linux	Enterprise 5.0
2	Operating System	Red Hat	Linux	Enterprise 5.0
3	DBMS	Oracle	Oracle Financials	11.2.0
4	Transmission Protocol	IBM	WebSphere MQ	7.5.0.5

Destination System (COD) Hardware/Software Components

#	Type	Vendor	Product Name	Version
1	Production Platform	HP	Midrange Server	DL580
2	Operating System	Red Hat	Red Hat Enterprise Linux	6.9
3	Transmission Protocol	IBM	WebSphere MQ	8.0.0.5

SAIG System Hardware/Software Components

#	Type	Vendor	Product Name	Version
1	Production Platform	VDC	Linux VM ESXi 6.0	Linux VM ESXi 6.0
2	Operating System	Red Hat Red Hat Linux 5.11	Red Hat Red Hat Linux 5.11	Red Hat Red Hat Linux 5.11
3	DBMS	Oracle Enterprise DB 11.2.0.4	Oracle Enterprise DB 11.2.0.4	Oracle Enterprise DB 11.2.0.4
4	Transmission Protocol	bTrade	TDN Transaction Delivery eNgine	3.2

Source System Additional Information

#	Type	Value
1	Production System Location	Plano, TX
2	Contracting Organization	DELL Systems
3	Developer Location	Washington, DC

Destination System Additional Information

#	Type	Value
1	Production System Location	Columbus, GA
2	Contracting Organization	Accenture/AWS
3	Developer Location	Washington, DC

Source System Responsibilities

#	Description
1	FMSS will send files with payment information pertaining to Federal Share Owed for Perkins Liquidation Tracking and Excess Liquid Capital.
2	FMS will retrieve the file from Edsecureftp Server and call ESB process to transfer the file to SAIG Mailbox.

Destination System Responsibilities

#	Description
1	COD will process the FMSS file received and store the data.
2	COD will archive the data files received from FMSS for 90 days.
3	COD will send an e-mail to cbfsaadmin@ed.gov that identifies any transactions that were on the FMSS file but that did not load into COD.
3.1	The email notification will contain the following information: Database Load information: Run began on: < date and time > Run ended on: < date and time > Records Read: < number of total records received > Records Rejected: < number of records rejected > Records successfully loaded: < number of records successfully loaded > Database Process Messages: < Rejected record(s) and reason(s) for rejection > Rejected Record Details: < transaction details - >

FMSS Payment Data File

This transfer is part of the Perkins Liquidation Tracking process for eligible schools participating in the Federal Perkins Loan Program as well as the Distribution of Assets (formerly Excess Liquid Capital) process for schools identified as having cash collections as reported annually to the Department.

For Distribution of Assets, schools that have received a Distribution of Assets notification are required to remit the Federal Share of cash to the Department by a remittance deadline before further management action is taken. Payment information for the federal share amounts received from schools are sent to COD through FMS as received by the **DOED_PERKINS_REFUNDS_MMDDYYYYHHMMSS.txt** Perkins Liquidation FMS Data File.

For Perkins Liquidation Tracking, schools in the process of liquidating their funds are required to remit any outstanding Federal Share Owed amounts to the Department in order to complete the liquidation of their Perkins Loan Program. Payment data information received from schools are sent to COD through FMS via the **DOED_PERKINS_REFUNDS_MMDDYYYYHHMMSS.txt** Perkins Liquidation FMS Data File from FMSS.

SAIG Header Record

SAIG Transmission Batch Header Record (example: O*N05TGXXXXX where XXXXX is an alphanumeric mailbox address) found in TD Client 3.2 - **Host Communications Guide**

Start	End	Length	Type	Description	Valid Value	Processing/ Edit Note
1	5	5	A/N	SAIG Batch Header Identification Number	Constant "O*N05"	Missing Transmission Trailer – Reject Transmission; No detail records – Reject Transmission
6	12	7	A/N	Header Destination Number	'TGXXXXX' where 'XXXXX' is a five digit number assigned to Destination	
13	19	7	A	Unused	Constant spaces	
20	24	5	A/N	Header Class Label	Constant: ",CLS = "	
25	32	8	A/N	Header Message Class	PEDCAPOP TEDCAPOP	
33	36	4	A/N	Header XXX Label	Constant: ",XXX"	
37	41	5	A/N	Text used to identify the next field is a Batch ID	Constant: ",BAT = "	
42	58	17	A/N	Header Batch label	Batch ID: "000000000000000000"	
59	64	6	A/N	Header	Constant:	

Interface Control Document
FMS Data Files

Start	End	Length	Type	Description	Valid Value	Processing/ Edit Note
				Batch ID	“,NCT = ”	

File Detail Record

Start	End	Length	Type	Data Element	Description	Valid values	Source Field in FMSS
1	70	70	VARC HAR2	Customer Name	Name of Customer	A-Z Numbers (0-9) Special characters	RA_CUSTOMERS. CUSTOMER_NAME
71	80	10	VARC HAR2	Customer DUNS	DUNS Number of Customer	0-9 XXXXXXXXXX	AR_CASH_RECEIPT S_ALL. ATTRIBUTE6
81	110	30	VARC HAR2	Receipt Number	Freeform user entered field used to uniquely identify a receipt.	There are no valid/invalid field values for this field. *Variable character field that will hold up to 30 characters. May include Alpha, Numeric, and Special Characters.	AR_CASH_RECEIPT S_ALL. RECEIPT_NUMBER
111	118	8	DATE	Receipt Date	Date receipt was received	Numbers (0-9) CCYYMMDD	AR_CASH_RECEIPT S_ALL. RECEIPT_DATE
119	138	20	VARC HAR2	Receipt Status	Status of receipt	Possible status codes are: - Applied - Non-Sufficient Funds - Reversal-User Error - Other	AR_CASH_RECEIPT S_ALL.STATUS
139	158	20	N	Receipt Amount	Amount of receipt	Numbers (0-9) Dollars and cents, i.e. 16000.00. Negative values allowed, i.e. -200570.00.	AR_CASH_RECEIPT S_ALL.AMOUNT
159	163	5	A	Transaction Type	Type of FMS payment transaction	L16- Excess Liquidation Cash T1- Liquidation	No direct field in FMSS. This field will be derived based on the receivable transaction type.
164	175	12	VARC HAR2	Customer UEI	UEI of Customer	All letters- not including “O” and “I” 0-9 XXXXXXXXXXXX	

Business Rules

Field format	Business Rule
Alphanumeric	All characters will be left justified and padded with spaces. Unless otherwise noted in the file specification section, blank/null optional fields will be padded with spaces.
Numeric/timestamp/date	All characters will be left padded with '0'. If it is blank/null, the length for the location of the field will be padded with '0'.
All fields	If the length of the source exceeds the maximum length of the data element, the source will be truncated according to business rules per field.

SAIG Trailer Record

SAIG Transmission Batch Trailer Record (example: O*N05TGXXXXX where XXXXX is an alphanumeric mailbox address) found in TD Client 3.2 - **Host Communications Guide**

Start	End	Length	Type	Description	Valid Value	Processing/ Edit Note
1	5	5	A/N	SAIG Batch Header Identification Number	Constant "O*N95"	<i>Missing Transmission Trailer – Reject Transmission; No detail records – Reject Transmission</i>
6	12	7	A/N	Trailer Destination Number	'TGXXXXX' where 'XXXXX' is a five digit number assigned to Destination	
13	19	7	A	Unused	Constant spaces	
20	24	5	A/N	Header Class Label	Constant: ",CLS = "	
25	32	8	A/N	Trailer Message Class	Production PEDCAPOP Test TEDCAPOP	
33	36	4	A/N	Trailer XXX Label	Constant: ",XXX"	
37	41	5	A/N	Text used to identify the next field is a Batch ID	Constant: ",BAT = "	

Interface Control Document
FMS Data Files

Start	End	Length	Type	Description	Valid Value	Processing/ Edit Note
42	58	17	A/N	Trailer Batch label	Batch ID: "000000000000000000"	
59	64	6	A/N	Trailer Batch ID	Constant: ",NCT = "	
65	70	6	N	Trailer NCNT Label	"000000"	
		Xx	A	Unused	Constant spaces	
		≥ 80		Total Record Length		

Interface Assumptions

#	Assumption
1	The COD System will reject the file if a null UEI is received, and the error information will be emailed to FSA via the existing FMSS Interface Error process.

Interface Dependencies

#	Dependency
1	No interface dependencies have been identified for this interface.

Issues and Additional Considerations

Raised By	Issue	Date Needed	Resolution/Answer	Date Completed	Resolved By

Reviewers

Name	Date	Team

FMS to COD: FMS Data File





**U.S. Department of Education
FSA Integration Partner**

**Participation Management (PM) & Common
Origination & Disbursement (COD)
Interface Control Document**

October 24, 2013

Version: 1.8

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Approval Control Sheet

This Interface Control Document was reviewed and approved by the following individuals:

Keith Wilson, COD Manager

Date

Marilyn LeBlanc, FSA FEBI Program Manager

Date

Once all the approvers sign this control sheet, this document will be placed under change control and will be updated as designs and development changes are made.

Document Change Control

Date	Author	Version	Change Reference
06/11/2012	Crystal Randall, Vangent	1.0	Initial Draft
08/02/2012	Eric Greving, Vangent	1.1	Updated based on COD meetings.
08/18/2012	Eric Greving, Vangent	1.2	Updated based on COD meetings.
09/25/2012	Eric Greving, Vangent	1.3	Updated based on COD input.
09/28/2012	Eric Greving, Vangent	1.4	Updated based on COD input.
12/11/2012	Eric Greving, Vangent	1.5	Updated participant file.
12/14/2012	Eric Greving, Vangent	1.6	Updated participant file.
04/09/2013	Eric Greving, Vangent	1.7	Updated participant file for FSA ID clarification due to Modifiable/blank, as well as phone number and e-mail field to not be included as modifiable.
10/24/2013	Accenture	1.8	Updated participant file to include new organization type, COD user role, and Institution ID for FFELP lenders. Updated definition of FSA User ID field to allow modifies of valid FSA User IDs as well as blank.
02/06/2015	Accenture	1.9	Made updates to include incoming filename format and midrange staging directory to reflect all PM files now landing on midrange. Added DI Transfer parameters for midrange to mainframe transfers.

I. Interface Control Specifications

Specification #1

Interface Name:		PM to COD Part File: Participant File containing COD Online Changes sent from Participation Management (PM)
Interface Type:	SEND	One directional batch file through SAIG using TDClient
	RECEIVE	ESB to retrieve file.
Interface Short Description:		This interface enables COD to retrieve the PM SAIG Participant file containing COD Online changes since the previous feed.
Source Application:		PM is the source application for this feed.
Destination Application:		COD is the destination application for this feed.
Functional Requirement References:		<ul style="list-style-type: none"> • To be sent as Message Class – CODONLIN (production), CODONLIN (IST Test) • To be sent to TG71900 (Production), TG75890 (IST Test) • Fields provided below • Fixed length file • File to contain only changes since last transmission • Records at the time of the feed are based on current state
Other Related Interfaces:		COD will load this information to their system.
Interface Usage Frequency:		Every two hours – Monday-Friday; 8 am et-8 pm et.
Interface Usage Volume: (COD Online users)		Initial load will be all eligible COD Online user records. The ongoing feed will only be new/delete records, so expect minimal volume (less than 5,000 records per day).

Specification #2

Interface Name:		PM/COD Participant File : COD Batch File (F0095)
Interface Type:	SEND	One directional batch file through SAIG using TDClient
	RECEIVE	ESB to retrieve file.
Interface Short Description:		This interface enables COD to retrieve the PM SAIG Participant file containing COD Batch changes since the previous feed.
Source Application:		PM is the source application for this feed.
Destination Application:		<p>COD is the destination application for this feed. Incoming PM files should be sent to /acn/saig/<TGMAILBOX >/pmin in pre-prod regions, and /acn/p2396/staging/pmin in production.</p> <p>The filename should be formatted : PMMAILBOX.Dyymmdd.Thhmmss.Rxxx, with yymmdd representing the current date, hhmmss representing the current time, and xxx representing three random digits.</p>

Functional Requirement References:	<ul style="list-style-type: none"> To be sent as Message Class – CODESTIN (for both pre-Prod and Production) To be sent to TG71900 (Production) Fields provided below Fixed length file File to contain only changes since last transmission
Other Related Interfaces:	COD will load this information to their system.
Interface Usage Frequency:	Nightly
Interface Usage Volume: (COD Online users)	The ongoing feed will only be new/delete records, so expect minimal volume.

II. Interface Overview

PM/COD Participant File:

This interface enables COD to retrieve the PM SAIG Participant file containing COD Online changes since the previous feed (the feed will be sent every two hours). This flat file will be sent through SAIG as message class – **CODONLIN**. COD will load this feed into the COD system.

The fields provided by PM to COD:

Field Level/Name	Content	Max Length	Required	Modifiable	Additional Detail
Update Flag	A(dd)/M(odify)/D(elete)	1	Yes	NA	
PM Unique ID		8	Yes	No	Assigned by PM for each unique combination of SSN, First Name, Last Name, and DOB.
FSA User ID	May be blank if Modified or if the user has not registered for their FSA User ID yet (example: new record). May also modify a valid FSA User Id to another valid FSA User Id	255	Yes	Yes	Unique ID assigned by AIMS.
Institution ID	OPE ID (I or A) = 12 FLS-TIVAS ID (T) = 3 FLS-NFP ID (U) = 3 Internal User (Z) = blank Lender ID (L) = 7	12	No	No	
Institution Name		40	Yes	No	
Filler		6	No	No	
Inactive School Indicator	Y (Inactive), blank	1	No	Yes	Indicates that the NSLDS closed school indicator came with a "Y".

Primary DPA ID (TG#) (Parent)		7	No	No	Hierarchy of the accounts. Children will always be under an account. Only Primary DPA can have parent and child.
DPA ID (TG#) (Child)		7	No	No	Individual TG# assigned to an individual user at a destination.
Organization Type	I – Institution A – Third Party Servicer Z – Contractor or FSA Expert User T – TIVAS U – NFP L – FFELP lenders	1	Yes	No	
Last Name		25	Yes	No	
First Name		10	Yes	No	
Phone	XXX-XXX-XXXX	12	Yes	No	
E-mail Address		70	Yes	No	

COD Role Abbreviation	SCHUS1 = View and Credit Check - I SCHUS2 = View Only - I SCHUS3 = View/Update - I SCHUS4 = View/Update and Credit Check - I SCHADM = School Admin - I SCHUS6 = View/Update/Credit Check and DLOT - I FSCUS4 = View/Update/Credit Check - I (Foreign School Only) TTPUS1 = View and Credit Check - A TTPUS2 = View Only - A TTPUS3 = View/Update - A TTPUS4 = View/Update and Credit Check - A TTPADM = Third Party Admin - A TIVUS2 = View Only- T, U TIVADM = Servicer Admin - T, U CSRUS1 - Override - Z CSRUS2 = View Only - Z CSRUS3 - No CC - Z CSRUS4 - Recon - Z CSRUS5 - Lead - Z CSRADM = CSR Admin - Z FSAUS1 = View Only - Z FSAUS2 = Payment Analyst - Z FSAUS3 = School File - Z FSAUS4 = Funding - Z FSAUS5 = Funds Control - Z FSAUS7 = Broadcast Message - Z FSAUS8 = Adhoc Query - Z FSAADM = FSA Admin - Z DOTADM = TSYS Admin - Z FFLUS1 = FFELP lenders - L	6	Yes	No	
Filler		39	No	No	
Total		500			

Other file notes:

- PM participant file will have Delete records first in the file, followed by Add records.
- Fields are in a flat file format and will be in fixed length.
- Fields are all left justified and padded with spaces.
- Fields are all alphanumeric.
- Add = new file or new role.
- Modify = see modifiable column.
- Delete = removal of user.
- Name/SSN/DOB changes require a fresh wet signature.

PM/COD Participant File (COD Batch):

This interface enables COD to retrieve the PM SAIG Participant file containing COD Batch changes since the previous feed. This flat file will be sent through SAIG as message class – **CODESTIN**. COD will load this feed into the COD system.

The fields provided by PM to COD:

Field Level/Name	Content	Max Length	Required
------------------	---------	------------	----------

Institution ID		6	Yes
Institution Name		35	Yes
Close Indicator	(Not used)	1	Yes
Direct Loan		1	Yes
Service ID	05 = Pell 06 = Direct Loan	2	Yes
Cycle		4	Yes
Institution State		1	Yes
Destination ID (TG#)		7	Yes
Destination Name		35	Yes
Destination Status	I, A	1	Yes
OPEID		8	Yes
Filler		9	No

III. System Information

PM (Source) System Hardware/Software Components (SEND)

#	Type	Vendor	Product Name	Version
1	Production Platform	IBM	Mainframe	
2	Operating System	IBM	z-OS	v1.12
3	Data Base	IBM	DB2	v9.1
4	Transmission Protocol	bTrade	TDCClient	various

PM (Source) System Hardware/Software Components (RECEIVE)

#	Type	Vendor	Product Name	Version
1	Production Platform	VDC	HP	
2	Operating System	UNIX	HP-UX	
3	Data Base	N/A		
4	Transmission Protocol	HTTPS		

COD System Hardware/Software Components

#	Type	Vendor	Product Name	Version
1	Production Platform	HP	DL580	
2	Operating System	Red Hat	Enterprise Linux Server	
3	Transmission Software	Metastorm	Data Integrator	

4	Transmission Protocol	IBM	WebSphere MQ	
---	-----------------------	-----	--------------	--

FEBI Source System Additional Information

#	Type	
1	Production System	Perot VDC
2	Production System Location	Plano, TX
3	Contracting Organization	Federal Student Aid
4	Developer Location	Coralville, IA

COD System Additional Information

#	Type	
1	Production System	TSYS North Data Center
2	Production System Location	Columbus, GA
3	Contracting Organization	Accenture/TSYS
4	Developer Location	Washington, DC

IV. System Responsibilities, Assumptions, Dependencies

PM System Responsibilities

#	Type	Responsibility
1	System Configuration	PM is responsible for sending Participant Information to COD for COD Online.
2	System Configuration	PM is responsible for sending the COD Online Entitlement Flag to AIMS.

COD System Responsibilities

#	Type	Responsibility
1	System Configuration	COD will be responsible for receiving the participant information from Participation Management for COD Online.
2	System Configuration	COD will be responsible for granting access to COD Online based on the participation information.
2	System Configuration	COD will be responsible for maintaining and assigning a user's privileges.

Interface Assumptions

#	Assumption
1	COD will load the participant files in the order that they are sent.
2	PM will always send a file at the designated times, if no records are selected for inclusion, the file will contain no records.

Interface Dependencies

No interface dependencies have been identified for this interface. However, FEBI is dependent on the network and Data Center managed by the VDC.

COD is dependent on the VDC environment availability.

Issues and Additional Considerations

No issues or additional considerations have been identified for this interface.

Reviewers

Name	Date	Team
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**PSLF EIN Bulk Upload Tool - COD
Interface Control Document**

Version 1.0 • 5/20/2020

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VERSION	DATE	AUTHOR	DESCRIPTION
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Section 1. Interface Control Specification

Interface Name *	PSLF EIN Bulk Upload Employer Eligibility Updates
Interface Type *	Uni-directional
Interface Short Description *	This document defines the process used by the COD System to process the EIN Bulk Upload file loaded by FSA user through the DCC CRM Tool
Requesting (Source) Application *	DCC CRM
Responding (Receiving or Destination) Application *	COD System
Technical Requirement References *	N/A
Interface Usage Frequency *	The EIN Bulk Upload File will be processed as part of one-time seeding and then monthly or as needed.
Interface Usage Volume *	The expected record count is roughly about 1,000.

**Required field*

Section 2. Interface Overview

2.1. Flow Diagram

2.2. Flow Diagram Description

1. COD Operations Team will load the bulk upload template into the Batch Tier Server.
2. File will be processed by the PSLF BULK Upload Inbound Job.
3. Data will be loaded into the COD database.

2.3. Usage Scenarios

COD Operations Team will retrieve the bulk upload file from the DCC CRM and initiate the processing into COD on a monthly basis.

Section 3. System Information

3.1. Requesting (or Source) System Information

DCC CRM

#	Type	
1	Production System Location	AWS GovCloud West
2	Contracting Organization	Accenture Federal Services, LLC
3	Developer Location	Washington, DC

3.2. Responding (Receiving or Destination) System Information

COD

#	Type	
1	Production System Location	AWS GovCloud West
2	Contracting Organization	Accenture Federal Services, LLC
3	Developer Location	Washington, DC

Section 4. Interfacing System Responsibilities

4.1. Requesting (or Source) System Responsibilities

DCC CRM Functional Specifications

#	Description
1	The COD Operations team will retrieve the bulk upload template from DCC CRM for processing into COD on a monthly basis.

4.2. Responding (Receiving or Destination) System Responsibilities

COD Functional Specifications

#	Description
1	COD will provide a bulk update template in an agreed upon file layout within the DCC CRM.

Section 5. Business Rules and Logic

The records will be validated according to the data validation rules outlined in the 'CR 119451 Next Gen DCC All-PSLF Phase I Enhancements for DCC' General Design Document. The incoming EIN Bulk Upload file will have two main tabs, Master Employer and Business As, which will have the following fields stored in the COD database:

Table 5--1 Master Employer Tab Data Fields to be loaded into the COD Database

MASTER EMPLOYER DATA COMPONENT
EIN
EIN Active/Inactive Indicator
FSA Management Indicator
FSA Management Date
Employer Name
Employer Name Active/Inactive Indicator
Address Line 1
Address Line 2
City
Postal Code
State
Country
Employer Website
Employer Eligibility Status Effective Start Date
Employer Eligibility Status Effect End Date
Employer Eligibility Status
Reason for Eligibility Status
Organization Type
Qualifying Service (QS1)
Qualifying Service 2 (QS2)
Qualifying Service 3 (QS3)

Qualifying Service 4 (QS4)
Qualifying Service 5 (QS5)

Table 5-2 Business As Tab Data Fields to be loaded into the COD Database

BUSINESS AS DATA COMPONENT
EIN
EIN Active/Inactive Indicator
Business As Name
Business As Active Indicator
FSA Management Indicator
FSA Management Date
Address Line 1
Address Line 2
City
Postal Code
State
Country

The records that violate the predefined conditions will be loaded into an error table with an error message. The error message will detail the criteria failed for that record and why it was rejected. The table below outlines a sample layout of specific error messages that may be encountered and the violating constraint:

Table 5-3 PSLF Employer Error Message Specifications

CONSTRAINT	ERROR MESSAGE
Invalid field length	Invalid length of fields: [field_name]
Required field	[field_name] cannot be null

The records that violate the predefined conditions will be written to an error table with the following fields:

Table 5-4 PSLF Employer Inbound Error Layout

PSLF_EMP_INBOUND_ERR				
Element	Field Name	Data Type	Nullable (Y/N)	Description
1	FILE_TXN_ID	number	N	File Transaction ID
2	LINE_NUM	number	N	Line number in the file of the error record
3	DOC_TYPE	alphanumeric	N	Document type of the file containing the error record
4	SHEET_NUM	number	N	Sheet or Tab name containing the error record
5	LINE_TXT	alphanumeric	Y	Original text of the record
6	ERR_MSG	alphanumeric	Y	Error message detailing the reason the record was rejected

The COD System will perform file level rejection for this inbound job if the incoming file does not adhere to the business rules. Therefore, if any of the records in the file are rejected and written to the error table, the entire file will be rejected, and no data will be stored in the COD Employer Eligibility database. File level validation will also be performed to ensure any EINs on the Business As tab are also present on the Main Employers tab. If this validation check fails for one or more EINs, the entire file will be rejected. The violation of any of the business rules listed below will also result in the file being rejected:

- Duplicate EINs will not be allowed in Main Employers tab, but the Business As tab can contain duplicate EINs
- An EIN in the Main Employer tab will be mapped to Master Employer Indicator = Y
- An EIN in the Business As tab will be mapped to Master Employer Indicator = N
- Any field marked as required must be included in the incoming file, if the field is blank or null, the record will be sent to the error table, and the file will be rejected.
- All fields must follow the data validation rules outlined in the Table 3-5, 3-6, and 3-7 of the 'CR 119451 Next Gen DCC All-PSLF Phase I Enhancements for DCC' General Design Document. If a field does not meet the listed criteria, the record will be sent to the error table, and the file will be rejected.

For each record in the EIN Bulk Upload file, if an EIN exists in the database, COD will perform a load and replace on the record. There will be no change on the owner source. If an EIN does not exist in the database, a new row will be inserted in for that record.

Section 6. File Specification

6.1. PSLF EIN BULK UPLOAD FILE

Format of the EIN Bulk Upload File:

The EIN Bulk Upload File will have the following layout for each record. The files will be in an Excel format with a predefined layout format. There will be two main tabs that will be processed to extract data and update the COD database. There will also be two additional tabs that will serve as a guide for reference values and proper formatting guidelines. The layout of the first two tabs, Main Employers and Business As, must adhere to the predefined format detailed below:

PSLF EIN BULK UPLOAD - MAIN EMPLOYERS			
Element	Field Name	Data Type	Nullable (Y/N)
1	ein	alphanumeric	N
2	einActiveFlag	alphanumeric	N
3	fsaLockFlag	alphanumeric	N
4	fsaLockExpireDate	date	N
5	employerName	alphanumeric	Y
6	nameActiveFlag	alphanumeric	N
7	street1	alphanumeric	Y
8	street2	alphanumeric	Y
9	city	alphanumeric	Y
10	state	alphanumeric	Y
11	zip	alphanumeric	Y
12	country	alphanumeric	Y
13	website	alphanumeric	Y
14	eligEffectiveDate	date	N
15	eligExpirationDate	date	N
16	eligStatus	alphanumeric	N
17	eligReason	alphanumeric	Y
18	orgType	alphanumeric	Y
19	service1	alphanumeric	N
20	service2	alphanumeric	N
21	service3	alphanumeric	N
22	service4	alphanumeric	N
23	service5	alphanumeric	N

PSLF EIN BULK UPLOAD – BUSINESS AS			
Element	Field Name	Data Type	Nullable (Y/N)
1	ein	alphanumeric	N
2	employerName	alphanumeric	N
3	website	alphanumeric	Y
4	street1	alphanumeric	Y
5	street2	alphanumeric	Y
6	city	alphanumeric	Y
7	state	alphanumeric	Y
8	zip	alphanumeric	Y
9	nameActiveFlag	alphanumeric	N

Section 7. Interface Assumptions and Dependencies

7.1. Assumptions

#	Assumption
	Operational Assumptions
1	COD will create a new Employer Eligibility Database to support PSLF Phase I enhancements.
2	The Employer Database will be replicated into EDWA. The employer data will be accessible via up to three canned reports and through the EDWA Ad Hoc Model in the EDWA Cognos Reporting Tool.
3	There will be a one-time load to seed the data into the COD Employer Database.
4	COD will support a bulk update functionality to maintain the most updated employer data.
5	FSA will use the EIN Bulk Upload Tool to insert or add any EIN that was not loaded through the EO BMF or SAAC files.
6	FSA shall be able to request the Bulk Upload File to be processed on an adhoc basis.
	Functional Assumptions
1	COD will provide a bulk update template in an agreed upon file layout within the DCC CRM.
2	The COD Operations team will retrieve the bulk upload template from DCC CRM for processing into COD on a monthly basis.

7.2. Dependencies

#	Dependencies
1	N/A

Appendix A - Acronyms and Abbreviations

ACRONYM	DEFINITION
COD	Common Origination and Disbursement

Table A-1: Acronyms and Abbreviations

Appendix B - Glossary

TERM	DEFINITION

Table B-1: Glossary



PSLF EO BMF - COD
Interface Control Document

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Section 1. Interface Control Specification

Interface Name *	PSLF EO BMF Employer Eligibility Updates
Interface Type *	Uni-directional
Interface Short Description *	This document defines the process used by the COD System to transfer and process the monthly data from the EO BMF.
Requesting (Source) Application *	IRS Exempt Organization Business Master File Extract (EO BMF) https://www.irs.gov/charities-non-profits/exempt-organizations-business-master-file-extract-eo-bmf
Responding (Receiving or Destination) Application *	COD System
Technical Requirement References *	N/A
Interface Usage Frequency *	The IRS EO BMF will be loaded on the 2 nd Monday of each month if it is available. If it is not available checks for the file will be done on a weekly basis.
Interface Usage Volume *	The expected record count is roughly about 900,000, spread across four different csv files for all regions (Regions 1 to 4) available in the IRS EO BMF Website.

**Required field*

Section 2. Interface Overview

2.1. Flow Diagram

2.2. Flow Diagram Description

1. The IRS EO BMF will be loaded into the Batch Tier Server and initiate the process to extract the data.
2. File will be processed by the PSLF EO BMF Inbound Job.
3. Data will be loaded into the COD database.

2.3. Usage Scenarios

COD will obtain the EO BMF every month from the IRS website and process the files to update the COD Employer Eligibility database.

Section 3. System Information

3.1. Requesting (or Source) System Information

IRS

#	Type	
1	Production System Location	N/A
2	Contracting Organization	N/A
3	Developer Location	N/A

3.2. Responding (Receiving or Destination) System Information

COD

#	Type	
1	Production System Location	AWS GovCloud West
2	Contracting Organization	Accenture Federal Services, LLC
3	Developer Location	Washington, DC

Section 4. Interfacing System Responsibilities

4.1. Requesting (or Source) System Responsibilities

IRS

#	Description
1	The IRS will provide a cumulative list of tax exempt organizations on a monthly basis that will be available on the IRS EO BMF Website .

4.2. Responding (Receiving or Destination) System Responsibilities

COD Functional Specifications

#	Description
1	The COD Operations Team will retrieve the EO BMF CSV files from the IRS website on a monthly basis.

Section 5. Business Rules and Logic

The records received from EO BMF will be validated according to the data validation rules outlined in the 'CR 119451 Next Gen DCC All-PSLF Phase I Enhancements for DCC General Design' document. All fields in the EO BMF not detailed in Table below will not be loaded onto the Employer Eligibility Database by the COD System. The COD System will archive a copy of the original EO BMF.

Table 5-1 EO BMF Data Fields loaded to the COD Database

DATA COMPONENT
EIN
Employer Name
Street
City
State
Postal Code
Subsection Code
Classification Code

The records that violate the predefined conditions will be loaded into an error table with an error message. The error message will be detailed the criteria failed for that record and why it was rejected. The table below outlines a sample layout of specific error messages that may be encountered and the violating constraint:

Table 5-2 PSLF Employer Error Message Specifications

CONSTRAINT	ERROR MESSAGE
Invalid field length	Invalid length of fields: [field_name]
Required field	[field_name] cannot be null
Subsection Code	[subsection] is not a valid subsection code

The COD System will perform record level validation to ensure any invalid records are sent to the error table. The records that violate the predefined conditions will be written to an error table with the following fields:

Table 5-3 PSLF Employer Inbound Error Layout

PSLF_EMP_INBOUND_ERR				
Element	Field Name	Data Type	Nullable (Y/N)	Description
1	FILE_TXN_ID	number	N	File Transaction ID
2	LINE_NUM	number	N	Line number in the file of the error record
3	DOC_TYPE	alphanumeric	N	Document type of the file containing the error record
4	SHEET_NUM	number	N	Sheet or Tab name containing the error record
5	LINE_TXT	alphanumeric	Y	Original text of the record
6	ERR_MSG	alphanumeric	Y	Error message detailing the reason the record was rejected

The table below outlines how the fields in the EO BMF will be loaded and stored in the Employer Eligibility Database. More details of how other fields in the COD Employer Eligibility Database will be set at EIN level can be found in the 'CR 119451 Next Gen DCC All-PSLF Phase I Enhancements for DCC General Design' document.

Table 5-4 Data Mapped from EO BMF to Employer Eligibility Database

EO BMF FIELD	EMPLOYER ELIGIBILITY DATABASE FIELD
EIN	EIN
Employer Name	Employer Name
Street	Address Line 1
City	City
State	State
Postal Code	Postal Code
Subsection Code	Employer Eligibility Status, Reason for Eligibility Status, Organization type (Government Type or Not-for Profit Type)
Classification Code	N/A (For Future Use)

Section 6. File Specification

6.1. PSLF EO BMF

Format of the EO BMF File:

The IRS EO BMF File will have the following layout for each record. Fields will be delimited with a comma, and there will be no header or trailer.

Table 6-1 EO BMF File Layout received

PSLF EO BMF FILE			
Element	Field Name	Data Type	Nullable (Y/N)
1	ein	alphanumeric	N
2	name	alphanumeric	N
3	ico	alphanumeric	Y
4	street	alphanumeric	Y
5	city	alphanumeric	Y
6	state	alphanumeric	Y
7	zip	alphanumeric	Y
8	group	number	Y
9	subsection	number	Y
10	affiliation	number	Y
11	classification	number	Y
12	ruling	number	Y
13	deductibility	number	Y
14	foundation	number	Y
15	activity	number	Y
16	organization	number	Y
17	status	number	Y
18	taxStatus	number	Y
19	assetCd	number	Y
20	incomeCd	number	Y
21	filingRequestCd	number	Y
22	pfFilingRequestCd	number	Y
23	acctPd	number	Y
24	assetAmt	number	Y

25	incomeAmt	number	Y
26	revenueAmt	number	Y
27	nteeCd	alphanumeric	Y
28	sortName	number	Y

Section 7. Interface Assumptions and Dependencies

7.1. Assumptions

#	Assumption
	Operational Assumptions
1	COD will create a new Employer Eligibility Database to support PSLF Phase I enhancements.
2	The Employer Database will be replicated into EDWA. The employer data will be accessible via up to four canned reports and through the EDWA Ad Hoc Model in the EDWA Cognos Reporting Tool.
3	There will be a one-time load to seed the data into the COD Employer Database. The data will be provided through the Exempt Organization Business Master File Extract (EO BMF) CSV files available on the IRS website. This data will be used to identify the list of currently eligible, ineligible, and likely ineligible nonprofit organizations.
4	COD will not modify IRS Exempt Organizations Business Master File Extract data.
5	The COD Operations Team will retrieve the EO BMF CSV files from the IRS website on a monthly basis. COD will then process the obtained files on a monthly basis.
6	The COD System will load all the fields received from each EO BMF to staging tables, and then only take specific fields as detailed in Table 5-1 above by loading those fields to the COD Database.
	Functional Assumptions
1	N/A

7.2. Dependencies

#	Dependencies
1	N/A

Appendix A - Acronyms and Abbreviations

ACRONYM	DEFINITION
COD	Common Origination and Disbursement
EO BMF	Exempt Organization Business Master File

Table A-1: Acronyms and Abbreviations

Appendix B - Glossary

TERM	DEFINITION
N/A	N/A

Table B-1: Glossary

```
graph LR; A[Batch Tier] --> B[(PSLF EO BMF Inbound Job)]; B --> C[(COD/EDWA)];
```

Batch Tier

PSLF EO BMF
Inbound Job

COD/EDWA

**PSLF Single Audit Act Clearinghouse Dataset - COD
Interface Control Document**

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Section 1. Interface Control Specification

Interface Name *	PSLF SAAC Employer Eligibility Updates
Interface Type *	Uni-directional
Interface Short Description *	This document defines the process used by the COD System to transfer and process the annual data from the SAAC dataset.
Requesting (Source) Application *	Single Audit Act Clearinghouse Dataset https://harvester.census.gov/facdissem/PublicDataDownloads.aspx
Responding (Receiving or Destination) Application *	COD System
Technical Requirement References *	N/A
Interface Usage Frequency *	The SAAC Dataset will be loaded on November 1st of each year.
Interface Usage Volume *	The expected record count for the SAAC Dataset file is roughly ~20,000 records.

**Required field*

Section 2. Interface Overview

2.1. Flow Diagram

2.2. Flow Diagram Description

1. COD will load the SAAC Dataset General File into the Batch Tier Server and will initiate the process to extract the data.
2. File will be processed by the PSLF SAAC Inbound Job.
3. Data will be loaded into the COD database and a copy of the original SAAC Dataset will be archived in the COD System.

2.3. Usage Scenarios

COD will obtain the updated SAAC Dataset every year from the Federal Audit Clearinghouse website and process the files to update the COD Employer Eligibility database.

Section 3. System Information

3.1. Requesting (or Source) System Information

Federal Audit Clearinghouse

#	Type	
1	Production System Location	N/A
2	Contracting Organization	N/A
3	Developer Location	N/A

3.2. Responding (Receiving or Destination) System Information

COD

#	Type	
1	Production System Location	AWS GovCloud West
2	Contracting Organization	Accenture Federal Services, LLC
3	Developer Location	Washington, DC

Section 4. Interfacing System Responsibilities

4.1. Requesting (or Source) System Responsibilities

Federal Audit Clearinghouse

#	Description
1	The Federal Audit Clearinghouse will provide the SAAC Dataset through the General File with the option to select all agreed upon Fiscal Years on the Federal Audit Clearinghouse Website .

4.2. Responding (Receiving or Destination) System Responsibilities

COD Functional Specifications

#	Description
1	The COD System will load records from the SAAC Dataset General File which will include all fiscal years available from 1997 onwards on a yearly basis.

Section 5. Business Rules and Logic

The records will be validated according to the data validation rules outlined in the 'CR 119451 Next Gen DCC All-PSLF Phase I Enhancements for DCC General Design' document. All fields in the SAAC Dataset file not detailed in the Table below will not be loaded into the Employer Eligibility Database by the COD System.

Table 5-1 SAAC Data Fields loaded to the COD Database

DATA COMPONENT
EIN
Auditee Name
Street 1
Street 2
City
State
Zip
Entity Type

The COD System will perform record level validation to ensure any invalid records are sent to the error table. The records that violate the predefined conditions will be loaded into an error table with an error message. The error message will be detailed the criteria failed for that record and why it was rejected. The table below outlines a sample layout of specific error messages that may be encountered and the violating constraint:

Table 5-2 PSLF Employer Error Message Specifications

CONSTRAINT	ERROR MESSAGE
Invalid field length	Invalid length of fields: [field_name]
Required field	[field_name] cannot be null
Entity Type	[entity_type] is not a valid entity type

The records that violate the predefined conditions will be written to an error table with the following fields:

Table 5-3 PSLF Employer Inbound Error Layout

PSLF_EMP_INBOUND_ERR				
Element	Field Name	Data Type	Nullable (Y/N)	Description
1	FILE_TXN_ID	number	N	File Transaction ID
2	LINE_NUM	number	N	Line number in the file of the error record
3	DOC_TYPE	alphanumeric	N	Document type of the file containing the error record
4	SHEET_NUM	number	N	Sheet or Tab name containing the error record
5	LINE_TXT	alphanumeric	Y	Original text of the record
6	ERR_MSG	alphanumeric	Y	Error message detailing the reason the record was rejected

Section 6. File Specification

6.1. PSLF SAAC Dataset

Format of the SAAC Dataset File:

The SAAC Dataset File will have the following layout for each record. Fields will be delimited with a comma, and there will be no header or trailer.

Table 6-1 SAAC File Layout received

PSLF SAAC DATASET FILE			
Element	Field Name	Data Type	Nullable (Y/N)
1	auditYear	number	N
2	dbKey	alphanumeric	Y
3	entityType	number	N
4	fyEndDate	date	Y
5	auditType	alphanumeric	Y
6	periodCovered	alphanumeric	Y
7	numberMonths	number	Y
8	ein	alphanumeric	N
9	multipleEins	alphanumeric	Y
10	einSubCode	number	Y
11	duns	alphanumeric	Y
12	multipleDuns	alphanumeric	Y
13	auditeeName	alphanumeric	N
14	street1	alphanumeric	Y
15	street2	alphanumeric	Y
16	city	alphanumeric	Y
17	state	alphanumeric	Y
18	zip	alphanumeric	Y
19	auditeeContact	alphanumeric	Y
20	auditeeTitle	alphanumeric	Y
21	auditeePhone	alphanumeric	Y
22	auditeeFax	alphanumeric	Y
23	auditeeEmail	alphanumeric	Y
24	auditeeDateSigned	date	Y

25	auditeeNameTitle	alphanumeric	Y
26	cpaFirmName	alphanumeric	Y
27	cpaStreet1	alphanumeric	Y
28	cpaStreet2	alphanumeric	Y
29	cpaCity	alphanumeric	Y
30	cpaState	alphanumeric	Y
31	cpaZipCode	alphanumeric	Y
32	cpaContact	alphanumeric	Y
33	cpaTitle	alphanumeric	Y
34	cpaPhone	alphanumeric	Y
35	cpaFax	alphanumeric	Y
36	cpaEmail	alphanumeric	Y
37	cpaDateSigned	date	Y
38	cogOver	alphanumeric	Y
39	cogAgency	alphanumeric	Y
40	oversightAgency	number	Y
41	typeReportFs	alphanumeric	Y
42	spFramework	alphanumeric	Y
43	spFrameworkRequired	alphanumeric	Y
44	typeReportSpFramework	alphanumeric	Y
45	goingConcern	alphanumeric	Y
46	reportableCondition	alphanumeric	Y
47	materialWeakness	alphanumeric	Y
48	materialNoncompliance	alphanumeric	Y
49	typeReportMp	alphanumeric	Y
50	dupReports	alphanumeric	Y
51	dollarThreshold	alphanumeric	Y
52	lowRisk	alphanumeric	Y
53	reportableConditionMp	alphanumeric	Y
54	materialWeaknessMp	alphanumeric	Y
55	qCosts	alphanumeric	Y
56	cyFindings	alphanumeric	Y
57	pySchedule	alphanumeric	Y
58	totFedExpend	alphanumeric	Y

59	dateFirewall	date	Y
60	previousDateFirewall	date	Y
61	reportRequired	alphanumeric	Y
62	multipleCpas	alphanumeric	Y
63	auditorEin	alphanumeric	Y
64	facAcceptedDate	date	Y
65	cpaForeign	alphanumeric	Y
66	cpaCountry	alphanumeric	Y

Section 7. Interface Assumptions and Dependencies

7.1. Assumptions

#	Assumption
	Operational Assumptions
1	COD will create a new Employer Eligibility Database to support PSLF Phase I enhancements.
2	The Employer Database will be replicated into EDWA. The employer data will be accessible via up to three canned reports and through the EDWA Ad Hoc Model in the EDWA Cognos Reporting Tool.
3	There will be a one-time load to seed the data into the COD Employer Database. The SAAC Dataset General File will be obtained by the COD Operations team for processing from the Federal Audit Clearinghouse Website and will be used to identify government organizations that are currently eligible.
4	The COD System will load records from the SAAC Dataset General File which will include all fiscal years available from 1997 onwards.
5	The COD System will load all the fields for each record in the SAAC Dataset General File received to the staging tables, and then load only the specific fields detailed in Table 5-1 above into the COD database.
	Functional Assumptions
1	N/A

7.2. Dependencies

#	Dependencies
1	N/A

Appendix A - Acronyms and Abbreviations

ACRONYM	DEFINITION
COD	Common Origination and Disbursement
SAAC	Single Audit Act Clearinghouse

Table A-1: Acronyms and Abbreviations

Appendix B - Glossary

TERM	DEFINITION

Table B-1: Glossary

```
graph LR; A[Batch Tier] --> B[(PSLF SAAC Inbound Job)]; B --> C[(COD/EDWA)];
```

Batch Tier

PSLF SAAC
Inbound Job

COD/EDWA

**Public Student Loan Forgiveness (PSLF)
Webservices
Interface Control Document**

Version 2.0 • 6/24/2020

Document Version Control

VERSION	DATE	AUTHOR	DESCRIPTION
1.0	05/20/2020	Derek M Fisher Patrick Limerick	Initial Draft
2.0	06/24/2020	Julia Depp Prutha Patel	Phase 2 updates for previously submitted employer, incorrect EIN update, and employer update changes

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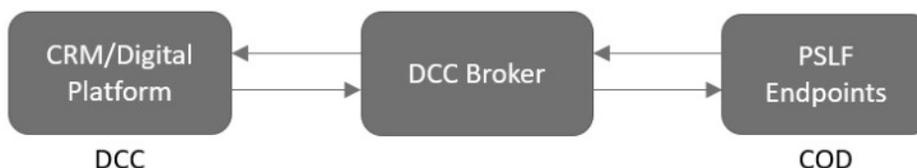
Section 1. Interface Control Specification

Interface Name *	Public Student Loan Forgiveness (PSLF) Webservices
Interface Type *	Bi-directional
Interface Short Description *	RESTful Webservice exposed by COD
Requesting (Source) Application *	DCC Digital Platform, DCC CRM
Responding (Receiving or Destination) Application *	PSLF Employer Eligibility Database is stored within COD
Technical Requirement References *	N/A
Interface Usage Frequency *	The interface is used on-demand each time a consumer saves/updates/retrieves data to/from the Employer Eligibility Database.
Interface Usage Volume *	Volume shall be determined in the future, as DCC DP and CRM will be actively using the COD PSLF Webservices.

**Required field*

Section 2. Interface Overview

2.1. Flow Diagram



2.2. Flow Diagram Description

1. CRM/Digital Initial Call to PSLF Endpoints
2. Request from CRM/Digital Platform passes through DCC Broker.
3. DCC Broker sends request to PSLF Endpoints in COD
4. PSLF Endpoints sends appropriate response to CRM/Digital Platform via the DCC Broker

2.3. Usage Scenarios

The PSLF search endpoint will be used by DCC Digital Platform and DCC CRM to return employer information from the Employer Eligibility Database in the COD System. DCC CRM will search by EIN and Employment Period and will be returned all active employer information associated to the EIN as well as an Employment Decision based on the period provided. DCC Digital Platform will search by either EIN, Employer Name, or Both, and will be returned all active employer information associated with the EIN, Employer Name, or the combination of the two.

The PSLF create endpoint will be used by DCC CRM to create employer data in the Employer Eligibility Database for an EIN that does not already exist in the Employer Eligibility Database.

The PSLF update endpoint will be used by DCC CRM to update employer data in the Employer Eligibility Database for an EIN that already exists in the Employer Eligibility Database.

Section 3. System Information

3.1. Requesting (or Source) System Information

DCC

#	Type	
1	Production System Location	AWS GovCloud West
2	Contracting Organization	Accenture Federal Services, LLC
3	Developer Location	Washington, DC

3.2. Responding (Receiving or Destination) System Information

COD

#	Type	
1	Production System Location	AWS GovCloud West
2	Contracting Organization	Accenture Federal Services, LLC
3	Developer Location	Washington, DC

Section 4. Interfacing System Responsibilities

4.1. Requesting (or Source) System Responsibilities

DCC Functional Specifications

#	Description
1	<i>All requests will follow the specified formats given in the Webservice Catalog.</i>

4.2. Responding (Receiving or Destination) System Responsibilities

COD Functional Specifications

#	Description
1	<i>All responses will follow the specified formats given in the Webservice Catalog.</i>

Section 5. Business Rules and Logic

Rules for specific endpoints are provided in the Webservice Catalog. The business/data validation rules are also described functionally in the 'CR 119451 Next Gen DCC All-PSLF Phase I Enhancements for DCC' General Design Document.

Section 6. Webservice Specification

6.1. pslf-employer/search Endpoint:

Endpoint	pslf/employer/search
Call Type	POST
Summary	Find employer information
Description	Find employer information given EIN and/or EmployerName and will also determine borrower employment eligibility if given employment dates
Request Header	Authorization: Basic <username/password>
Request	Content Type: application/json description: EmployerSearchRequest
Response	Valid Responses: <ul style="list-style-type: none">• 200<ul style="list-style-type: none">• Description: OK• Content Format: application/json• Content: EmployerSearchResponse schema• 400<ul style="list-style-type: none">• Description: Bad Request• Content Format: */*• Content: Acknowledge schema• Example:<ul style="list-style-type: none">message: Invalid Requestsuccess: false• 404<ul style="list-style-type: none">• Description: Not Found• Content Format: */*• Content: Acknowledge schema• Example:<ul style="list-style-type: none">message: not foundsuccess: false

6.2. pslf-employer/update Endpoint:

Endpoint	pslf/employer/update
Call Type	PUT
Summary	Update an employer

Description	Update an employer if it exists
Request Header	Authorization: Basic <username/password>
Request	Content Type: application/json description: EmployerUpdateRequest
Response	<p>Valid Responses:</p> <ul style="list-style-type: none"> • 200 <ul style="list-style-type: none"> • Description: OK • Content Format: */* • Content: ResponseValue schema • 400 <ul style="list-style-type: none"> • Description: Bad Request • Content Format: */* • Content: Acknowledge schema • Example: <pre>message: Invalid Request success: false</pre> • 404 <ul style="list-style-type: none"> • Description: Not Found • Content Format: */* • Content: Acknowledge schema • Example: <pre>message: not found success: false</pre>

6.3. pslf-employer/create Endpoint:

Endpoint	pslf/employer/create
Call Type	POST
Summary	Create a new employer
Description	Create a new employer if the EIN does not already exist
Request Header	Authorization: Basic <username/password>
Request	Content Type: application/json description: Same as EmployerCreateRequest

Response	<p>Valid Responses:</p> <ul style="list-style-type: none"> • 200 <ul style="list-style-type: none"> • Description: OK • Content Format: */* • Content: ResponseValue schema • 400 <ul style="list-style-type: none"> • Description: Bad Request • Content Format: */* • Content: Acknowledge schema • Example: <ul style="list-style-type: none"> message: Invalid Request success: false
-----------------	---

6.4. Get Pslf App By Social Security Number Service Endpoint

Endpoint	pslf/application/submitted-employers
Call Type	POST
Summary	Retrieves a customer's previously submitted employers
Description	Retrieves a customer's previously submitted employer for their most recent PSLF application
Request Header	Authorization: Basic <username/password>
Request	Content Type: application/json Description: GetPslfAppBySsn
Response	<p>Valid Responses:</p> <ul style="list-style-type: none"> • 200 <ul style="list-style-type: none"> • Description: OK • Content Format: */* • Content: PslfAppSubmittedEmployer schema • 400 <ul style="list-style-type: none"> • Description: Bad Request • Content Format: */* • Content: Acknowledge schema • Example: <ul style="list-style-type: none"> message: Invalid Request success: false

6.5. Incorrect EIN Service Endpoint

Endpoint	pslf/application/incorrect-ein
-----------------	--------------------------------

Call Type	POST
Summary	Updates a PSLF Application
Description	Updates a PSLF Application to toggle the incorrect EIN flag
Request Header	Authorization: Basic <username/password>
Request	Content Type: application/json description: PslfApplicationUpdateRequest
Response	Valid Responses: <ul style="list-style-type: none"> • 200 <ul style="list-style-type: none"> • Description: OK • Content Format: */* • Content: string • 400 <ul style="list-style-type: none"> • Description: Bad Request • Content Format: */* • Content: Acknowledge schema • Example: <pre>message: Invalid Request success: false</pre>

6.6. Save Pslf Endpoint

Endpoint	pslf/application/savePslf
Call Type	POST
Summary	Saves a PSLF Application
Description	Saves all relevant PSLF application information including employers, qualifying services, and loan information.
Request Header	Authorization: Basic <username/password>
Request	Content Type: application/json description: PslfAppRequest
Response	Valid Responses: <ul style="list-style-type: none"> • 200 <ul style="list-style-type: none"> • Description: OK • Content Format: */* • Content: number • 400

	<ul style="list-style-type: none">• Description: Bad Request• Content Format: */*• Content: Acknowledge schema• Example: message: Invalid Request success: false
--	---

Section 7. Interface Assumptions and Dependencies

7.1. Assumptions

#	Assumption
	Operational Assumptions
1	N/A
	Functional Assumptions
1	N/A

7.2. Dependencies

#	Dependencies
1	N/A

Appendix A - Acronyms and Abbreviations

ACRONYM	DEFINITION
COD	Common Origination and Disbursement
PSLF	Public Student Loan Forgiveness

Table A-1: Acronyms and Abbreviations

Appendix B - Glossary

TERM	DEFINITION

Table B-1: Glossary

**Summary General Ledger (GL) Booking File
(FMS-COD)**

Interface Control Document

Version 2.0 • 3/8/2018

Document Version Control

VERSION	DATE	AUTHOR	DESCRIPTION
1.0	11/29/2017	Eva Hogan	R17.1 as part of the Reconciliation CR
1.1	01/08/2018	Oscar Garza	TO additions
1.2	01/30/2018	Danielle Brown	Updates based on review with FSA
2.0	03/08/2018	Danielle Brown	Updated the table names.
3.0	05/23/2018	Eva Hogan	Updated file location.

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Section 1. Interface Control Specification

Interface Name	Summary GL Booking File - FMS to COD
Interface Type	Uni-directional
Interface Short Description	This interface is for the transfer of the Servicer Transfer-In data reported for the month at hand to be used for the Monthly Reconciliation Report.
Requesting (Source) Application	FMS
Responding (Receiving or Destination) Application *	COD System
Technical Requirement References	<p><u>Target Directory</u></p> <p>(prod) /apps/batch/staging/recon/COD.MON.GLLNBOOK.DYYYYMMDD.THH MMSS.RXXX</p> <p>(test) /acn/ist/staging/recon/COD.MON.GLLNBOOK.DYYYYMMDD.THHM MSS.RXXX</p> <p><u>Message Classes:</u></p> <p>Production: PDTG5LOP Test: TDTG5LOP</p> <p><u>COD Mailboxes</u></p> <p>Production: TG71900 Test: TGS2700</p> <p><u>FMS Mailboxes</u></p> <p>Production: TGC0358 Test: TGF4949</p>
Interface Usage Frequency	This interface is batch interface and allows for records to be sent once a month. There will be capabilities for multiple files to be transferred per day on an ad hoc basis.
Interface Usage Volume	Average 18163 records each month.

Section 2. Interface Overview

2.1. Flow Diagram

2.2. Flow Diagram Description

1. FMS will create the Summary GL file
2. FMS will transmit the Summary GL file to COD's TG Mailbox on SAIG
3. The ESB BUS will route the file from COD's TG Mailbox to the COD server
4. The COD system will receive and process the FMS Summary GL file

2.3. Usage Scenarios

FMS sends the Summary GL file to COD via SAIG.

Section 3. System Information

3.1.1. Source System (FMS) Hardware/Software Components

#	Type	Vendor	Product Name	Version
1	Production Platform	HP	HP-UX	11i
2	Operating System	HP	HP-UX	11i
3	DBMS	Oracle	Oracle Financials	10.2.0.3
4	Transmission Protocol	IBM	WebSphere MQ	6.0

3.1.2. Destination System (COD) Hardware/Software Components

#	Type	Vendor	Product Name	Version
1	Production Platform	HP	Midrange Server	DL580
2	Operating System	Red Hat	Red Hat Enterprise Linux Server	6.9
3	Transmission Protocol	IBM	WebSphere MQ	8.0.0.5

3.1.3. SAIG System Hardware/Software Components

#	Type	Vendor	Product Name	Version
1	Production Platform	VDC	Linux VM ESXi 6.0	6.0
2	Operating System	Red Hat	Red Hat Linux 5.11	5.11
3	DBMS	Oracle	Oracle Enterprise Database	11.2.0.4
4	Transmission Protocol	bTrade	TDN Transaction Delivery eNgine	3.2

3.1.4. Destination System (COD) Additional Information

#	Type	
1	Production System Location	Columbus, GA
2	Contracting Organization	Accenture/TSYS
3	Developer Location	Washington, DC

3.1.5. SAIG System Additional Information

#	Type	
1	Production System Location	Federal Student Aid Virtual Data Center
2	Contracting Organization	Collabralink
3	Developer Location	Mclean, VA/ Iowa City, IA

Section 4. Interfacing System Responsibilities

4.1. Requesting (or Source) System Responsibilities

FMS Functional Specifications

#	Description
1	FMS shall extract the Summary GL data from their records.
2	The extracted data shall be saved to the Summary GL Booking file in an comma-delimited with headers file format.
3	The Summary GL Booking file shall be sent to the COD System via the SAIG Mailbox.

4.2. Responding (Receiving or Destination) System Responsibilities

COD Functional Specifications

#	Description
1	The COD System shall accept the Summary GL Booking file via the SAIG Mailbox by the 6 th business day of each month.
2	COD will process the FMS Summary GL Booking file as part of the automated reconciliation procedure.

Section 5. File Specification

Header Record:

Column Number	Data Element	Description	Field Format	Length	Start Position	End Position
1	SAIG Batch Header Identification Number	Constant "O*N05"	A/N	5	1	5
2	Header Destination Number	Production: TG71900 Test: TGS2700	A/N	7	6	12
3	Constant spaces	Unused	A	7	13	19
4	Header Class Label	Constant: ",CLS="	A/N	5	20	24
5	Header Message Class	Production: PDTSGLOP Test: TDTSGLOP	A/N	8	25	32
6	Header XXX Label	Constant: ",XXX"	A/N	4	33	36
7	Text used to identify the next field in a Batch ID	Constant: ",BAT="	A/N	5	37	41
8	Header Batch ID	Batch ID up to 50 characters	A/N	50	42	92
9	Comma	,	N	1	93	93
10		Total Length		93		

Detail Record:

Column Number	Data Element	Description	Field Format	Length	Start Position	End Position	Required or Optional
1	Net Amount	Sample Value: -16705.50 (note that it can include a decimal with cents and it is the only field in the Detail Record that does not have quotation marks around it)	NUMBER	15	N/A	N/A	Required
2	Amount Type	Valid Values: "ORIG_FEE_AMT" " "PBO_AMT" "REBATE_AMT"	VARCHAR2	25	N/A	N/A	Required
3	FSA Transaction ID	Sample Value: "S320161206018889"	VARCHAR2	25	N/A	N/A	Required
4	Fund	Valid Values: "4253XNY" and "4290XNY"	VARCHAR2	25	N/A	N/A	Required
5	Account	Sample Value: "135003"	VARCHAR2	25	N/A	N/A	Required
6	Limitation	Sample Value: "A10"	VARCHAR2	25	N/A	N/A	Required
7	Source Code	Sample Value: "S3"	VARCHAR2	25	N/A	N/A	Required
8	Period-Name	Sample Value: "Dec-17"	VARCHAR2	25	N/A	N/A	Required
9	Header Status	Sample Value: "p"	VARCHAR2	25	N/A	N/A	Required
10	Posted Date	Sample Value: "dd-mon-ccyy" "08-DEC-2016"	DATE	11	N/A	N/A	Required

Column Number	Data Element	Description	Field Format	Length	Start Position	End Position	Required or Optional
11	Cohort Year	Sample Value: "15"	VARCHAR2	25	N/A	N/A	Required

Trailer Record:

Column Number	Data Element	Description	Field Format	Length	Start Position	End Position
1	SAIG Batch Trailer Identification Number	Constant "O*N95"	A/N	5	1	5
2	Header Destination Number	Production: TG71900 Test: TGS2700	A/N	7	6	12
3	Constant spaces	Unused	A	7	13	19
4	Trailer Class Label	Constant: ",CLS="	A/N	5	20	24
5	Trailer Message Class	Production: PDTSGLOP Test: TDTSGLOP	A/N	8	25	32
6	Trailer XXX Label	Constant: ",XXX"	A/N	4	33	36
7	Text used to identify the next field in a Batch ID	Constant: ",BAT="	A/N	5	37	41
8	Trailer Batch ID	Batch ID up to 50 characters	A/N	50	42	92
9	Comma	,	N	1	93	93
10		Total Length		93		

Section 6. Interface Assumptions and Dependencies

6.1. Assumptions

#	Assumption
	Operational Assumptions
1	Existing Batch Job Scheduling mechanisms will schedule the initiation of the FMS Summary GL file.
2	Batch job failures will be captured by existing Operations mechanisms on the COD servers.
3	SAIG provides a message to securely exchange batch data between FMS and COD.
	Functional Assumptions
1	FMS shall send the Summary GL file on the 6 th business day of each month.
2	COD will receive and process the FMS Summary GL file.

6.2. Dependencies

#	Dependencies
1	No dependencies have been identified for this interface. However, FMS and ESB are dependent on the network and Data Center managed by the VDC and COD is dependent on the network managed by TSYS.

Appendix A - Acronyms and Abbreviations

ACRONYM	DEFINITION

Table A-1: Acronyms and Abbreviations

Appendix B - Glossary

TERM	DEFINITION

Table B-1: Glossary



**Servicer Transfer-In File (FMS-COD)
Interface Control Document**

Version 2.0 • 3/8/2018

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VERSION	DATE	AUTHOR	DESCRIPTION
1.0	11/29/2017	Eva Hogan	R17.1 as part of the Reconciliation CR
1.1	01/08/2017	Oscar Garza	TO additions
1.2	01/16/2018	Eva Hogan	Updated based on comments from FSA Review.
2.0	03/08/2018	Danielle Brown	Updated the table names.
3.0	05/23/2018	Eva Hogan	Updated volume and file location.

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Section 1. Interface Control Specification

Interface Name	Servicer Transfer-In (TXI) File - FMS to COD
Interface Type	Uni-directional
Interface Short Description	This interface is for the transfer of the Servicer Transfer-In data reported for the month at hand to be used for the Monthly Reconciliation Report.
Requesting (Source) Application	FMS
Responding (Receiving or Destination) Application *	COD System
Technical Requirement References	<p><u>Target Directory</u> (prod) /apps/batch/staging/recon/COD.MON.TXI.DYYYYMMDD.THHMMSS.R XXX (test) /acn/ist/staging/recon/COD.MON.TXI.DYYYYMMDD.THHMMSS.RXX X</p> <p><u>Message Classes:</u> Production: PDTRXOP Test: TDTRXOP</p> <p><u>COD Mailboxes</u> Production: TG71900 Test: TGS2700</p> <p><u>FMS Mailboxes</u> Production: TGC0358 Test: TGF494</p>
Interface Usage Frequency	This will be one file per servicer per month.
Interface Usage Volume	Average 1 million records per servicer each month

Section 2. Interface Overview

2.1. Flow Diagram

2.2. Flow Diagram Description

1. FMS will create the Servicer Transfer-In file
2. FMS will transmit the Servicer Transfer-In file to COD's TG Mailbox on SAIG
3. The ESB BUS will route the file from COD's TG Mailbox to the COD server
4. The COD system will receive and process the FMS Servicer Transfer-In file

2.3. Usage Scenarios

FMS will send the Servicer Transfer-In file via SAIG.

Section 3. System Information

3.1.1. Source System (FMS) Hardware/Software Components

#	Type	Vendor	Product Name	Version
1	Production Platform	HP	HP-UX	11i
2	Operating System	HP	HP-UX	11i
3	DBMS	Oracle	Oracle Financials	10.2.0.3
4	Transmission Protocol	IBM	WebSphere MQ	6.0

3.1.2. Destination System (COD) Hardware/Software Components

#	Type	Vendor	Product Name	Version
1	Production Platform	HP	Midrange Server	DL580
2	Operating System	Red Hat	Red Hat Enterprise Linux Server	6.9
3	Transmission Protocol	IBM	WebSphere MQ	8.0.0.5

3.1.3. SAIG System Hardware/Software Components

#	Type	Vendor	Product Name	Version
1	Production Platform	VDC	Linux VM ESXi 6.0	6.0
2	Operating System	Red Hat	Red Hat Linux 5.11	5.11
3	DBMS	Oracle	Oracle Enterprise Database	11.2.0.4
4	Transmission Protocol	bTrade	TDN Transaction Delivery eNgine	3.2

3.1.4. Destination System (COD) Additional Information

#	Type	
1	Production System Location	Columbus, GA
2	Contracting Organization	Accenture/TSYS
3	Developer Location	Washington, DC

3.1.5. SAIG System Additional Information

#	Type	
1	Production System Location	Federal Student Aid Virtual Data Center
2	Contracting Organization	Collabralink
3	Developer Location	Mclean, VA/ Iowa City, IA

Section 4. Interfacing System Responsibilities

4.1. Requesting (or Source) System Responsibilities

FMS Functional Specifications

#	Description
1	FMS shall extract the TXI data from their transfer-in records sent from the Servicers.
2	The extracted data shall be saved to the Servicer TXI file in an comma-delimited with headers file format.
3	The Servicer TXI file shall be sent to the COD System via the SAIG Mailbox.

4.2. Responding (Receiving or Destination) System Responsibilities

COD Functional Specifications

#	Description
1	The COD System shall accept the Servicer TXI file via the SAIG Mailbox by the 6 th business day of each month.
2	COD will process the FMS Servicer TXI file as part of the automated reconciliation procedure.

Section 5. File Specification

Header Record:

Column Number	Data Element	Description	Field Format	Length	Start Position	End Position
1	SAIG Batch Header Identification Number	Constant "O*N05"	A/N	5	1	5
2	Header Destination Number	Production: TG71900 Test: TGS2700	A/N	7	6	12
3	Constant spaces	Unused	A	7	13	19
4	Header Class Label	Constant: ",CLS="	A/N	5	20	24
5	Header Message Class	Production: PDTRXOP Test: TDTRXOP	A/N	8	25	32
6	Header XXX Label	Constant: ",XXX"	A/N	4	33	36
7	Text used to identify the next field in a Batch ID	Constant: ",BAT="	A/N	5	37	41
8	Header Batch ID	Batch ID up to 50 characters	A/N	50	42	92
9	Comma	,	N	1	93	93
10		Total Length		93		

Detail Record:

Column Number	Data Element	Description	Field Format	Length	Start Position	End Position	Required or Optional
1	Servicer Id	Sample Value: "700578"	VARCHAR 2	10	N/A	N/A	Required
2	Servicer Id From	Vaild Value: "COD"	VARCHAR 2	10	N/A	N/A	Required
3	Servicer Id To	Sample Value: "700578"	VARCHAR 2	10	N/A	N/A	Required
4	Loan Program	Valid Values: "DLO", "TPG" or "TPL"	VARCHAR 2	10	N/A	N/A	Required

Column Number	Data Element	Description	Field Format	Length	Start Position	End Position	Required or Optional
5	Loan Id	Sample Value: "00000000000000000000 00000000000000000000 000000xxxxxxxxS1 7G03404001"	VARCHAR 2	60	N/A	N/A	Required
6	Disbursement Number	Sample Value: "02"	VARCHAR 2	30	N/A	N/A	Required
7	First Disbursement Date	Sample Value: dd-mon-ccyy "20-SEP-2016"	DATE	11	N/A	N/A	Required
8	Loan Type	Sample Value: "D0"	VARCHAR 2	10	N/A	N/A	Required
9	SSN	Sample Value: "123456789"	VARCHAR 2	9	N/A	N/A	Required
10	Amount Type	Valid Values: "ORIG_FEE_AMT" "PBO_AMT" "REBATE_AMT"	VARCHAR 2	30	N/A	N/A	Required
11	Amount	Sample Value: 5000 (note that it can include a decimal with cents and it is the only field in the Detail Record that does not have quotation marks around it)	NUMBER	15	N/A	N/A	Required
12	Send To FMS Date	Sample Value: dd-mon-ccyy "20-SEP-2016"	DATE	11	N/A	N/A	Required
13	FMS Summary Id	Sample Value: "S520161209619215 "	VARCHAR 2	30	N/A	N/A	Required
14	Transaction Code	Valid Values: "DISBUR" "DISBADJ"	VARCH AR2	30	N/A	N/A	Required

Column Number	Data Element	Description	Field Format	Length	Start Position	End Position	Required or Optional
15	Report Period	Sample Value: mon-ccyy "DEC-16"	VARCHAR 2	10	N/A	N/A	Required
16	Report Type	Valid Value: "TXI"	VARCHAR 2	50	N/A	N/A	Required
17	Deal Id	Sample Value: "XXXXX"	VARCHAR 2	10	N/A	N/A	Optional
18	Deal Date	Sample Value: "XXXXX"	VARCHAR 2	8	N/A	N/A	Optional

Trailer Record:

Column Number	Data Element	Description	Field Format	Length	Start Position	End Position
1	SAIG Batch Trailer Identification Number	Constant "O*N95"	A/N	5	1	5
2	Header Destination Number	Production: TG71900 Test: TGS2700	A/N	7	6	12
3	Constant spaces	Unused	A	7	13	19
4	Trailer Class Label	Constant: ",CLS="	A/N	5	20	24
5	Trailer Message Class	Production: PDTRXOP Test: TDTRXOP	A/N	8	25	32
6	Trailer XXX Label	Constant: ",XXX"	A/N	4	33	36
7	Text used to identify the next field in a Batch ID	Constant: ",BAT="	A/N	5	37	41
8	Trailer Batch ID	Batch ID up to 50 characters	A/N	50	42	92
9	Comma	,	N	1	93	93
10		Total Length		93		

Section 6. Interface Assumptions and Dependencies

6.1. Assumptions

#	Assumption
	Operational Assumptions
1	Existing Batch Job Scheduling mechanisms will schedule the initiation of the FMS Servicer TXI file.
2	Batch job failures will be captured by existing Operations mechanisms on the COD servers.
3	SAIG provides a message to securely exchange batch data between FMS and COD.
	Functional Assumptions
1	FMS shall send the Servicer TXI file on the 6 th business day of each month.
2	COD will receive and process the FMS Servicer TXI file.

6.2. Dependencies

#	Dependencies
1	No dependencies have been identified for this interface. However, FMS and ESB are dependent on the network and Data Center managed by the VDC and COD is dependent on the network managed by TSYS.

Appendix A - Acronyms and Abbreviations

ACRONYM	DEFINITION

Table A-1: Acronyms and Abbreviations

Appendix B - Glossary

TERM	DEFINITION

Table B-1: Glossary



**Servicer Work-in-Progress File (FMS-COD)
Interface Control Document**

Version 1.1 • 1/8/2018

Document Version Control

VERSION	DATE	AUTHOR	DESCRIPTION
1.0	11/29/2017	Eva Hogan	R17.1 as part of the Reconciliation CR
1.1	01/08/2017	Oscar Garza	TO additions
1.2	01/16/2018	Eva Hogan	Updated based on comments from FSA Review.
2.0	05/23/2018	Eva Hogan	Updated file location.

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Section 1. Interface Control Specification

Interface Name	Servicer Work-in-Progress (WIP) File - FMS to COD
Interface Type	Uni-directional
Interface Short Description	This interface is for the transfer of the Servicer Work-In-Progress data reported for the month at hand to be used for the Monthly Reconciliation Report.
Requesting (Source) Application	FMS
Responding (Receiving or Destination) Application	COD System
Technical Requirement References	<p><u>Target Directory / File Name</u></p> <p>(prod) /apps/batch/staging/recon/COD.MON.WIP.DYYYYMMDD.THHMMSS.RXXX</p> <p>(test) /acn/ist/staging/recon/COD.MON.WIP.DYYYYMMDD.THHMMSS.RXXX</p> <p><u>Message Classes:</u></p> <p>Production: PDTWIPOP Test: TDTWIPOP</p> <p><u>COD Mailboxes</u></p> <p>Production: TG71900 Test: TGS2700</p> <p><u>FMS Mailboxes</u></p> <p>Production: TGC0358 Test: TGF4949</p>
Interface Usage Frequency	This will be one monthly report for all servicers.
Interface Usage Volume	Average 4600 records each month

Section 2. Interface Overview

2.1. Flow Diagram

2.2. Flow Diagram Description

1. FMS will create the Servicer Work-in-Progress file
2. FMS will transmit the Servicer Work-in-Progress file to COD's TG Mailbox on SAIG
3. The ESB BUS will route the file from COD's TG Mailbox to the COD server
4. The COD system will receive and process the FMS Servicer Work-in-Progress file

2.3. Usage Scenarios

The Servicer Work-in-Progress File will be delivered to COD via SAIG.

Section 3. System Information

3.1.1. Source System (FMS) Hardware/Software Components

#	Type	Vendor	Product Name	Version
1	Production Platform	HP	HP-UX	11i
2	Operating System	HP	HP-UX	11i
3	DBMS	Oracle	Oracle Financials	10.2.0.3
4	Transmission Protocol	IBM	WebSphere MQ	6.0

3.1.2. Destination System (COD) Hardware/Software Components

#	Type	Vendor	Product Name	Version
1	Production Platform	HP	Midrange Server	DL580
2	Operating System	Red Hat	Red Hat Enterprise Linux Server	6.9
3	Transmission Protocol	IBM	WebSphere MQ	8.0.0.5

3.1.3. SAIG System Hardware/Software Components

#	Type	Vendor	Product Name	Version
1	Production Platform	VDC	Linux VM ESXi 6.0	6.0
2	Operating System	Red Hat	Red Hat Linux 5.11	5.11
3	DBMS	Oracle	Oracle Enterprise Database	11.2.0.4
4	Transmission Protocol	bTrade	TDN Transaction Delivery eNgine	3.2

3.1.4. Destination System (COD) Additional Information

#	Type	
1	Production System Location	Columbus, GA
2	Contracting Organization	Accenture/TSYS
3	Developer Location	Washington, DC

3.1.5. SAIG System Additional Information

#	Type	
1	Production System Location	Federal Student Aid Virtual Data Center
2	Contracting Organization	Collabralink
3	Developer Location	Mclean, VA/ Iowa City, IA

Section 4. Interfacing System Responsibilities

4.1. Requesting (or Source) System Responsibilities

FMS Functional Specifications

#	Description
1	FMS shall extract the WIP data from their Work-in-Progress records sent from the Servicers.
2	The extracted data shall be saved to the Servicer WIP file in an comma-delimited with headers file format.
3	The Servicer WIP file shall be sent to the COD System via the SAIG Mailbox.

4.2. Responding (Receiving or Destination) System Responsibilities

COD Functional Specifications

#	Description
1	The COD System shall accept the Servicer WIP file via the SAIG Mailbox by the 6 th business day of each month.
2	COD will process the FMS Servicer WIP file as part of the automated reconciliation procedure.

Section 5. File Specification

Header Record:

Column Number	Data Element	Description	Field Format	Length	Start Position	End Position
1	SAIG Batch Header Identification Number	Constant "O*N05"	A/N	5	1	5
2	Header Destination Number	Production: TG71900 Test: TGS2700	A/N	7	6	12
3	Constant spaces	Unused	A	7	13	19
4	Header Class Label	Constant: ",CLS="	A/N	5	20	24
5	Header Message Class	Production: PDTWIPOP Test: TDTWIPOP	A/N	8	25	32
6	Header XXX Label	Constant: ",XXX"	A/N	4	33	36
7	Text used to identify the next field in a Batch ID	Constant: ",BAT="	A/N	5	37	41
8	Header Batch ID	Batch ID up to 50 characters	A/N	50	42	92
9	Comma	,	N	1	93	93
10		Total Length		93		

Detail Record:

Column Number	Data Element	Description	Field Format	Length	Start Position	End Position	Required or Optional
1	Servicer Id	Sample Value: "700578"	VARCHA R2	10	N/A	N/A	Required
2	Servicer Id From	Valid Value: "COD"	VARCHA R2	10	N/A	N/A	Required
3	Servicer Id To	Sample Value: "700578"	VARCHA R2	10	N/A	N/A	Required
4	Loan Program	Valid Values: "DLO", "TPG" or "TPL"	VARCHA R2	10	N/A	N/A	Required

Column Number	Data Element	Description	Field Format	Length	Start Position	End Position	Required or Optional
5	Loan Id	Sample Value: "00000000000000000000 00000000000000000000 0000xxxxxxxxxS17G0 3404001"	VARCHA R2	60	N/A	N/A	Required
6	Disbursement Number	Sample Value: "02"	VARCHA R2	30	N/A	N/A	Required
7	First Disbursement Date	Sample Value: "20-SEP-2016"	DATE	11	N/A	N/A	Required
8	Loan Type	Sample Value: "D0"	VARCHA R2	10	N/A	N/A	Required
9	SSN	Sample Value: "123456789"	VARCHA R2	9	N/A	N/A	Required
10	Amount Type	Valid Values: "ORIG_FEE_AMT" "PBO_AMT" "REBATE_AMT"	VARCHA R2	30	N/A	N/A	Required
11	Amount	Sample Value: 5000 (note that it can include a decimal with cents and it is the only field in the Detail Record that does not have quotation marks around it)	NUMBER	15	N/A	N/A	Required
12	Send To FMS Date	Sample Value: NULL (for WIP files)	DATE	11	N/A	N/A	Required
13	FMS Summary Id	Sample Value: NULL (for WIP files)	VARCHA R2	30	N/A	N/A	Required
14	Transaction Code	Valid Values: "DISBUR" or "DISBADJ"	VARCH AR2	30	N/A	N/A	Required
15	Report Period	Sample Value: mon-ccyy "DEC-16"	VARCHA R2	10	N/A	N/A	Required
16	Report Type	Valid Value: "WIP"	VARCHA R2	50	N/A	N/A	Required

Column Number	Data Element	Description	Field Format	Length	Start Position	End Position	Required or Optional
17	Deal Id	Sample Value: "XXXXX"	VARCHA R2	10	N/A	N/A	Optional
18	Deal Date	Sample Value: "XXXXX"	VARCHA R2	8	N/A	N/A	Optional

Trailer Record:

Column Number	Data Element	Description	Field Format	Length	Start Position	End Position
1	SAIG Batch Trailer Identification Number	Constant "O*N95"	A/N	5	1	5
2	Header Destination Number	Production: TG71900 Test: TGS2700	A/N	7	6	12
3	Constant spaces	Unused	A	7	13	19
4	Trailer Class Label	Constant: ",CLS="	A/N	5	20	24
5	Trailer Message Class	Production: PDTWIPOP Test: TDTWIPOP	A/N	8	25	32
6	Trailer XXX Label	Constant: ",XXX"	A/N	4	33	36
7	Text used to identify the next field in a Batch ID	Constant: ",BAT="	A/N	5	37	41
8	Trailer Batch ID	Batch ID up to 50 characters	A/N	50	42	92
9	Comma	,	N	1	93	93
10		Total Length		93		

Section 6. Interface Assumptions and Dependencies

6.1. Assumptions

#	Assumption
	Operational Assumptions
1	Existing Batch Job Scheduling mechanisms will schedule the initiation of the FMS Service WIP file.
2	Batch job failures will be captured by existing Operations mechanisms on the COD servers.
3	SAIG provides a message to securely exchange batch data between FMS and COD.
	Functional Assumptions
1	FMS shall send the Service WIP file on the 6 th business day of each month.
2	COD will receive and process the FMS Service WIP file.

6.2. Dependencies

#	Dependencies
1	No dependencies have been identified for this interface. However, FMS and ESB are dependent on the network and Data Center managed by the VDC and COD is dependent on the network managed by TSYS.

Appendix A - Acronyms and Abbreviations

ACRONYM	DEFINITION

Table A-1: Acronyms and Abbreviations

Appendix B - Glossary

TERM	DEFINITION

Table B-1: Glossary



Repayment Application File Layout

Version 3.0

Application Schema: Version 1.4

11/20/2017

Author: Accenture

Version Log

Date	Author	Description	Version
08/25/2015	Accenture	Initial Draft	1.0
06/17/2016	Accenture	COD Release 15.2 updates	2.5
11/20/2017	Accenture	Updated Layout based on changes in R16.2.3	3.0

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Repayment Application File Layout

1 Overview

This document is intended to provide an understanding of the layout of the Application Schema and includes definitions and valid values of the fields. Throughout the document, elements will be grouped in block sequence and contain information for the following column headings:

- Field # - Lists the field number
- <tag> - Contains the tag name
- Required? – States whether the tag is a required field
- Min/Max – States the minimum and maximum number of times the tag is required
- Base – Lists the type of tag
- Value – Lists possible values for the tag
- Business Logic – Explains rules associated with the tag

A general rule regarding sequence of data within blocks, and within complex elements: the start and end data tags and their context must be presented on the XML document within the block's tags or the complex element tags to which they belong. The sequence of the data within that block or element is dictated by the sequence of the data tags presented in the Application Schema. This document does not attempt to depict the order or sequence of tags. For example, if a complex element has ten simple elements within it, those ten elements must occur in the same sequence as depicted in the Application Schema. If there is any discrepancy between the information presented here and the information presented in the XSD document, the Application Schema should be considered the correct source for the information.

Next to each complex or simple element in the XSD are additional details regarding if the element is required or optional. If *minOccurs="0"* is next to the element, then that complex or simple element is optional. If *minOccurs="0"* is not next to the element, then that complex or simple element is required. For instance, the Transmission Data element is required and is listed as follows:

```
<xs:element name="TransmissionData" type="cod:TransmissionDataType"/>
```

However, the Status element is optional:

Repayment Application File Layout

```
<xs:element name="Status" type="cod:StatusType" minOccurs="0"/>
```

The Repayment Application Type complex element is optional; however, if it is included, certain elements that pertain to the Repayment Application Type are required and some are optional:

```
<xs:complexType name="RepaymentApplicationType">
  <xs:sequence>
    <xs:element name="TransactionID" type="cod:DocumentIDType" minOccurs="0"/>
    <xs:element name="ApplicationID" type="xs:integer"/>
    <xs:element name="ApplicationStatus" type="cod:StatusType" minOccurs="0"/>
    <xs:element name="RepaymentPrograms">
      <xs:complexType>
        <xs:sequence>
          <xs:element maxOccurs="unbounded" minOccurs="0" name="RepaymentProgram"
            type="cod:RepaymentProgramType"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="CompletionTimestamp" type="xs:dateTime"/>
    <xs:element name="SpouseHasIBREligibleLoans" type="xs:boolean"/> <!-- this flag is on the application-->
    <xs:element name="JointConsolidatedLoan" type="xs:boolean"/> <!-- this flag is on the application-->
    <xs:element name="JointRepaymentPlanRequest" type="xs:boolean" minOccurs="0"/>
    <xs:element name="PaperPackage" type="xs:boolean" minOccurs="0"/>
    <xs:element name="RepaymentReason" type="cod:RepaymentReasonType" minOccurs="0"/>
    <xs:element name="ReferringSourceID" type="xs:integer" minOccurs="0"/>
    <xs:element name="Spouse" type="app:SpouseType" minOccurs="0"/>
    <xs:element name="IncomeInformation" type="app:IncomeInformationType" minOccurs="0"/>
    <xs:element name="UnderlyingLoans" type="app:UnderlyingLoansType" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element name="Response" type="app:ResponseType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

Repayment Application File Layout

2 Document Level Information

The Transmission Data block is a required document level block that contains information related to the source of the document/batch, the document destination, and the date and time the document was created.

Field #	<tag>	Required ?	Min/Max	Base	Value	Business Logic
1	<TransmissionDataType>	Y	1/1	NA	NA	Complex element - Always included in inbound and outbound files. All fields are required.
2	<DocumentID>	Y	1/1	string	Format: DCCYYMMDDHHmmssSSS00000001 D: Indicates that this ID is at the document level CCYYMMDD HHmmssSSS: Indicates the date and time stamp when the CPN transaction ID was created. 00000001-Indicates the Routing ID of COD (the system sending the document)	The File Transmission Date and Time stamp with additional unique qualifying characters. The docid will be the same for the Repayment Application Request File, the Repayment Application Response File, and the Repayment Application Receipt File.
3	<DocumentType>	Y	1/1	string	Request; Response; DisbursementRoster; DisbursementForecast; DisbursementAcknowledgement; Application; Change; CertificationRequest; Receipt; TermEnroll; TermGrade; StudentRequest; RequestedRecord; InstitutionRequest; ThirdPartyRequest	The Repayment Application Request File will have a document type value of Request. The Repayment Application Receipt File will have a document type value of Receipt. The Repayment Application Response File will have a document type value of Response.

Repayment Application File Layout

Field #	<tag>	Required ?	Min/Max	Base	Value	Business Logic
4	<CreateDateTime>	Y	1/1	dateTime	CCYY-MM-DDThh:mm:ss	Example: 2013-07-08T20:12:52
5	<Source>	Y	1/1	NA	NA	Complex element includes: RoutingID (for Request file) ServicerID (for Response/Receipt file) EntityName
6	<Destination>	Y	1/1	NA	NA	Complex element includes: RoutingID (for Response/Receipt file) ServicerID (for Request File) EntityName
7	<RoutingID>	Y	1/1	token	length is 8	COD is 00000001
8	<ServicerID>	Y	1/1	token	Minlength of 0 and Maxlength of 8	This will be the external servicer ID for the servicer receiving the Repayment Application Request/sending the Repayment Application Receipt and Response
9	<EntityName>	N	0/1	string	Name of COD or the Servicer Minlength of 1 and maxlength of 65	The Repayment Application Request will name COD as the Source and the Servicer as the Destination. The Repayment Application Response/Receipt will name the Servicer as the Source and COD as the Destination.

3 Borrower Level Information

The Borrower Level block information contains identifying and demographic information related to the borrower.

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
1	<Borrower>	Y	1/1	NA	NA	Complex element
2	<TransactionID>	Y	1/1	string	BCCYYMMDDHHmmssSSSxxxxxxx B-Indicates that this ID is at the Borrower level CCYYMMDDHHmmssSSS-Indicates the date and time stamp when the transaction ID was created. xxxxxxx-Indicates the Routing ID of COD	A unique transaction ID that will be assigned to the Borrower block by COD. The Response and Request file will use the same transaction ID.
3	<SSN>	Y	1/1	string	[0-9] {9}	<SSN> Will pad with '0'.
4	<Identifiers>	N	0/1	NA	NA	Complex element
5	<DateOfBirth>	N	1/1	date		CCYY-MM-DD Example: 2010-07-08
6	<DriversLicenseState>	N	0/1	token	AA; AB; AE; AK; AL; AP; AR; AS; AZ; BC; CA; CO; CT; CZ; DC; DE; FL; FM; GA; GU; HI; IA; ID; IL; IN; KS; KY; LA; MA; MB; MD; ME; MH; MI; MN; MO; MP; MS; MT; NB; NC; ND; NE; NF; NH; NJ; NL; NM; NS; NT; NU; NV; NY; OH; OK; ON; OR; PA; PE; PR; PW; QC; RI; SC; SD; SK; TN; TX; UT; VA; VI; VT; WA; WI; WV; WY; YT	Full enumerated list in the CODCommon schema.
7	<DriversLicenseNumber>	N	0/1	string	minLength of 1; maxLength of 20	
8	<FullName>	N	0/1	NA	Complex element	Complex element
9	<Title>	N	0/1	string	minLength of 1, maxLength of 35	Will not be sent.
10	<FirstName>	N	0/1	string	minLength of 1, maxLength of 35	The first name of the person, usually given at birth, baptism, during another ceremony, or through legal change. Pre-populated on

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
						SL.gov based on PIN data.
11	<LastName>	N	0/10	String	minLength of 1, maxLength of 35	The last name or surname by which a person is legally known. Pre-populated on form based on PIN data.
12	<Suffix>	N	0/1	string	minLength of 1, maxLength of 35	Will not be sent.
13	<MiddleInitial>	N	0/1	string	Minlength of 1 maxlength of 1	A secondary Name of the person, usually given at birth, baptism, or during another naming ceremony or through legal change. Middle initial pre-populated on form based on PIN data.
17	<FormerName>	N	0/unbounded	token	maxLength of 255	Will not be sent in the Repayment Application File.
18	<Contacts>	N	0/1	NA	NA	Complex element
19	<Address>	N	0/unbounded	NA	NA	Complex element
20	<AddressLine>	Y	1/3	string	minLength of 1, maxLength of 40	
21	<City>	Y	1/1	string	minLength of 1, maxLength of 24	
22	<State>	N	0/1	token	AA; AB; AE; AK; AL; AP; AR; AS; AZ; BC; CA; CO; CT; CZ; DC; DE; FL; FM; GA; GU; HI; IA; ID; IL; IN; KS; KY; LA; MA; MB; MD; ME; MH; MI; MN; MO; MP; MS; MT; NB; NC; ND; NE; NF; NH; NJ; NL; NM; NS; NT; NU; NV; NY; OH; OK; ON; OR; PA; PE; PR; PW; QC; RI; SC; SD; SK; TN; TX; UT; VA; VI; VT; WA; WI; WV; WY; YT	The full list is located in the CODCommon schema.
23	<ZipCode>	N	0/1	string	Minlength of 5, maxlength of 9	
24	<Country>	N	0/1	string	AF; AX; AL; DZ; AS; AD; AO; AI; AQ; AG; AR; AM; AW; AU; AT; AZ; BS; BH; BD; BB; BY; BE; BZ; BJ; BM; BT; BO; BA; BW; BV; BR; IO; BN; BG; BF; BI; KH; CM; CA; CV; KY; CF; TD; CL; CN; CX; CC; CO; KM; CG; CD; CK; CR; CI; HR; CU; CW; CY; CZ; DK; DJ; DM; DO; EC; EG; SV; GQ; ER; EE; ET; FK; FO; FJ; FI; FR; GF; PF; TE; GA;	The full list is located in the CODCommon schema.

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Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
					GM; GE; DE; GH; GI; GR; GL; GD; GP; GU; GT; GN; GW; GY; HT; HM; VA; HN; HK; HU; IS; IN; ID; IR; IQ; IE; IL; IT; JM; JP; JO; KZ; KE; KI; KP; KR; KW; KG; LA; LV; LB; LS; LR; LY; LI; LT; LU; MO; MK; MG; MW; MY; MV; ML; MT; MH; MQ; MR; MU; YT; MX; FM; MD; MC; MN; MS; MA; MZ; MM; NA; NR; NP; NL; AN; NC; NZ; NI; NE; NG; NU; NF; MP; NO; OM; PK; PW; PS; PA; PG; PY; PE; PH; PN; PL; PT; PR; QA; RE; RO; RU; RW; SH; KN; LC; PM; VC; WS; SM; ST; SA; SN; CS; SC; SL; SG; SK; SI; SB; SO; ZA; GS; ES; LK; SD; SR; SJ; SZ; SE; CH; SY; SS; TW; TJ; TZ; TH; TL; TG; TK; TO; TT; TN; TR; TM; TC; TV; UG; UA; AE; GB; US; UM; UY; UZ; VU; VE; VN; VG; VI; WF; EH; YE; ZM; ZW (Code indicating country. UseISO 3166-1 alpha-2 standard found at www.iso.org)	
26	<EmailAddress>	N	0/1	string	maxLength of 128	SL.gov has the following validation for email address: <code>[_A-Za-z0-9-]+\([\.[_A-Za-z0-9-]]*\)[_A-Za-z0-9-]*\([\.[_A-Za-z0-9-]]*\)[_A-Za-z0-9-]*\([\.[_A-Za-z0-9-]]*\)</code> This means one or more letters, digits, underscore or dash, optionally followed by sequence of a period, followed by one or more letters, digits, underscore or dash, zero or more times, followed by @, followed by one or more letters, digits, underscore or dash, followed optionally by sequence of a period, followed by one or more letters, digits, underscore or dash, zero or more times.
27	<PhoneNumber>	N	0/unbounded	NA	NA	Complex element
28	<Number>	Y	1/1	string	Minlength of 7 and maxLength of 17	Minlength of 10, numbers only (no hyphens, parentheses, or letters); Leading zeroes will

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
						be accepted.
29	<Type>	N	0/1	string	Home; Office; Mobile; Fax; Other	
30	<Employment>	N	0/1	NA	NA	Complex element – Not sent in the Repayment Application Files
31	<Employer>	N	0/1	string	MinLength of 1, MaxLength of 65	
19	<Address>	N	0/1	NA	NA	Complex element
20	<AddressLine>	Y	1/3	string	minLength of 1, maxLength of 40	
21	<City>	Y	1/1	string	minLength of 1, maxLength of 24	
22	<State>	N	0/1	token	AA; AB; AE; AK; AL; AP; AR; AS; AZ; BC; CA; CO; CT; CZ; DC; DE; FL; FM; GA; GU; HI; IA; ID; IL; IN; KS; KY; LA; MA; MB; MD; ME; MH; MI; MN; MO; MP; MS; MT; NB; NC; ND; NE; NF; NH; NJ; NL; NM; NS; NT; NU; NV; NY; OH; OK; ON; OR; PA; PE; PR; PW; QC; RI; SC; SD; SK; TN; TX; UT; VA; VI; VT; WA; WI; WV; WY; YT	List of enumerations in CODCommon schema.
23	<ZipCode>	N	0/1	string	Minlength of 5, maxlength of 9	
24	<Country>	N	0/1	string	AF; AX; AL; DZ; AS; AD; AO; AI; AQ; AG; AR; AM; AW; AU; AT; AZ; BS; BH; BD; BB; BY; BE; BZ; BJ; BM; BT; BO; BA; BW; BV; BR; IO; BN; BG; BF; BI; KH; CM; CA; CV; KY; CF; TD; CL; CN; CX; CC; CO; KM; CG; CD; CK; CR; CI; HR; CU; CW;CY; CZ; DK; DJ; DM; DO; EC; EG; SV; GQ; ER; EE; ET; FK; FO; FJ; FI; FR; GE; PF; TF; GA; GM; GE; DE; GH; GI; GR; GL; GD; GP; GU; GT; GN; GW; GY; HT; HM; VA; HN; HK; HU; IS; IN; ID; IR; IQ; IE; IL; IT; JM; JP; JO; KZ; KE; KI; KP; KR; KW; KG; LA; LV; LB; LS; LR; LY; LI; LT; LU; MO; MK; MG; MW; MY; MV; ML; MT; MH; MQ; MR; MU; YT; MX; FM; MD; MC; MN; MS; MA; MZ; MM; NA; NR; NP; NL; AN; NC; NZ; NI;	List of enumerations in CODCommon schema.

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
					NE; NG; NU; NF; MP; NO; OM; PK; PW; PS; PA; PG; PY; PE; PH; PN; PL; PT; PR; QA; RE; RO; RU; RW; SH; KN; LC; PM; VC; WS; SM; ST; SA; SN; CS; SC; SL; SG; SK; SI; SB; SO; ZA; GS; ES; LK; SD; SR; SJ; SZ; SE; CH; SY; SS; TW; TJ; TZ; TH; TL; TG; TK; TO; TT; TN; TR; TM; TC; TV; UG; UA; AE; GB; US; UM; UY; UZ; VU; VE; VN; VG; VI; WF; EH; YE; ZM; ZW (Code indicating country. Use ISO 3166-1 alpha-2 standard found at www.iso.org)	
38	<PhoneNumber>	N	0/unbounded	NA	NA	Complex element
39	<Number>	Y	1/1	string	Minlength of 7 and maxLength of 17	Minlength of 10, numbers only (no hyphens, parentheses, or letters); Leading zeroes will be accepted.
40	<Type>	N	0/1	string	Home; Office; Mobile; Fax; Other	
41	<MarriedFlag>	N	0/1	string	boolean	Will not be sent.
42	<ContactLanguage>	N	0/1	string	English Spanish	
43	<ContactTime>	N	0/1	NA	NA	Complex element.
44	<Start>	Y	1/1	string	Format: hh:mm.	Every hour on the hour. Example: 15:00
45	<End>	Y	1/1	string	Format: hh:mm.	Every hour on the hour. Example: 15:00
46	<CPNApplication>	N	0/unbounded	NA	NA	Complex element. (See subsequent section) Will not be sent for Repayment Application Files.
47	<RepaymentApplication>	N	0/unbounded	NA	NA	Complex element. (See subsequent section)
48	<RepaymentStatus>	N	0/unbounded	NA	NA	Complex element. (See subsequent section) Will not be sent for Repayment Application Files.
49	<Response>	N	0/1	NA	NA	Complex element. (See subsequent section) Will be sent for this block.

Repayment Application File Layout

4 CPN Application Block Information

The CPN Application block is an optional block within the Application Schema. The CPN Application block includes application data for different loan consolidation options. The CPN Application block will not be sent in the Repayment Application Files.

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
1	<CPNApplication>	N	0/unbounded	NA	NA	Complex element
2	<TransactionID>	Y	1/1		CCYYMMDDHHmmssSSSxxxxxxx C-Indicates that this ID is at the CPN level CCYYMMDDHHmmssSSS-Indicates the date and time stamp when the CPN transaction ID was created. xxxxxxx-Indicates the Routing ID of COD	A unique transaction ID that will be assigned to the CPN block by COD. The Response and Request file will use the same transaction ID.
3	<ConsolAppID>	Y	1/1	integer		This will be the application ID for the CPN application. It will be a unique, auto generated sequential number. It will be searchable on the web.
4	<Status>	N	0/1	string	Enumerations: Pending Submitted Sent Expired Cancelled Completed Draft SignaturePending Misdirected Accepted Declined	This field will not be sent for this phase because only completed applications will be sent in the file.
5	<SignatureType>	N	0/1	token	Electronic	This will be electronic only.

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Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
6	<ExpirationDate>	N	0/1	date	CCYY-MM-DD	Not sending this field.
7	<SignedDate>	N	0/1	date	CCYY-MM-DD	This is the date the application was signed.
8	<ExpectedGracePeriodEndYearMonth>	N	0/1	YearMonth	CCYY-MM	This is calculated based off of the data the borrower inputs in the application.
9	<NSLDSUnavailableReason>	N	0/1	string	NSLDS Error COD Error Student Not Found Multiple Students Found No Loans Zero Balance Exceeds Threshold	Reason why NSLDS was not available. Will not send if NSLDS was available.
10	<PublicServiceFlag>	N	0/1	string	Boolean	This will be true if the borrower selects that he/she is part of the Public Service Loan Forgiveness program.
11	<RepaymentPlan>	N	0/1	token	Consolidation Graduated Repayment Consolidation Standard Repayment Extended Fixed Repayment Extended Graduated Repayment Fixed Payment, Extended Term Fixed Payment, Fixed Term Graduated Repayment Income-Based Repayment Plan Income-Based Repayment Plan-DL Income-Based Repayment Plan-FFEL Plan with the lowest monthly payment Income Contingent 1 Income Contingent 2 Income Contingent 3 Income Contingent A Income Contingent B Income Contingent C Income-Sensitive Repayment Plan Not in Repayment Standard Repayment Graduated 10-Year Repayment Special Plan/Secretary's Option	Will send: Income Contingent B PayAsYouEarn Income-Based Repayment Plan Plan with the lowest monthly payment REPAYE

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
					No Repayment Plan Selected Current Repayment Plan PayAsYouEarn REPAYE	
12	<SecondaryRepaymentIndicator>	N	0/1	string	boolean	This field will not be sent.
13	<SecondaryRepaymentPlan>	N	0/1	token	Consolidation Graduated Repayment Consolidation Standard Repayment Extended Fixed Repayment Extended Graduated Repayment Fixed Payment, Extended Term Fixed Payment, Fixed Term Graduated Repayment Income-Based Repayment Plan Income-Based Repayment Plan-DL Income-Based Repayment Plan-FFEL Plan with the lowest monthly payment Income Contingent 1 Income Contingent 2 Income Contingent 3 Income Contingent A Income Contingent B Income Contingent C Income-Sensitive Repayment Plan Not in Repayment Standard Repayment Graduated 10-Year Repayment Special Plan/Secretary's Option No Repayment Plan Selected Current Repayment Plan PayAsYouEarn REPAYE	This field will not be sent.
14	<EnrollmentEffectiveDate>	N	0/1	Date		Date as of which an enrollment status is effective. This is received from NSLDS.
15	<EnrollmentStatus>	N	0/1	string	A = 'Approved Leave of Absence' D = 'Deceased' F = 'Full Time' G = 'Graduated'	The enrollment status of a student. This is received from NSLDS.

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
					H = 'Half Time' L = 'Less than Half Time' W = 'Withdrawn' X = 'Never Attended' Z = 'No Record Found'	
16	<LatestOPEID>	N	0/1	string	Length of 8	The OPE ID for the latest school attended by the borrower.
17	<NFPServiceID>	N	0/1	string	minLength of 0, maxLength of 8	This will populate when a borrower chooses an NFP as their servicer. -CornerStone: 700502 -HESC / Edfinancial: 700501 Granite State / GSMR: 700504 MOHELA: 700500 OSLA Servicing: 700506
18	<NFPConsolidation>	N	0/1	boolean	'true'	This will only populate if the borrower selects an NFP Servicer, and will only ever have a value of 'true'.
19	<ReferringSourceID>	N	0/1	integer		The servicer ID of the Servicer who referred the Initiator to SL.gov; this includes the NFP Servicers. The COD ID, 00000001, if the Initiator was not referred to the SL.gov flow by a Servicer. -Great Lakes Educational Loan Services: 700581 -Nelnet Servicing: 700580 -Pennsylvania Higher Education Assistance Agency: 700579 -Navient (Sallie Mae): 700578 -CornerStone: 700502 -HESC / Edfinancial: 700501 Granite State / GSMR: 700504 MOHELA: 700500 OSLA Servicing: 700506
20	<References>	N	0/2	NA	NA	Complex element
21	<FullName>	N	0/1	NA	Complex element	Complex element
22	<Title>	N	0/1	string	minLength of 1, maxLength of 35	An honorific, title or form of address that

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
						precedes the name. Not collected.
23	<FirstName>	N	0/1	string	minLength of 1, maxLength of 35	The first name of the person, usually given at birth, baptism, during another ceremony, or through legal change. This is collected.
24	<LastName>	N	0/10	String	minLength of 1, maxLength of 35	The last name or surname by which a person is legally known. This is collected.
25	<Suffix>	N	0/1	string	minLength of 1, maxLength of 35	Not collected.
26	<MiddleInitial>	N	0/1	string	Minlength of 1 maxlength of 1	A secondary Name of the person, usually given at birth, baptism, or during another naming ceremony or through legal change. This is collected.
27	<Contacts>	N	0/1	NA	NA	Complex element
28	<Address>	N	0/unbounded	NA	NA	Complex element
29	<AddressLine>	Y	1/3	string	minLength of 1, maxLength of 40	
30	<City>	Y	1/1	string	minLength of 1, maxLength of 24	
31	<State>	N	0/1	token	AA; AB; AE; AK; AL; AP; AR; AS; AZ; BC; CA; CO; CT; CZ; DC; DE; FL; FM; GA; GU; HI; IA; ID; IL; IN; KS; KY; LA; MA; MB; MD; ME; MH; MI; MN; MO; MP; MS; MT; NB; NC; ND; NE; NF; NH; NJ; NL; NM; NS; NT; NU; NV; NY; OH; OK; ON; OR; PA; PE; PR; PW; QC; RI; SC; SD; SK; TN; TX; UT; VA; VI; VT; WA; WI; WV; WY; YT	The full list is located in the CODCommon schema.
32	<ZipCode>	N	0/1	string	Minlength of 5, maxlength of 9	
33	<Country>	N	0/1	string	AF; AX; AL; DZ; AS; AD; AO; AI; AQ; AG; AR; AM; AW; AU; AT; AZ; BS; BH; BD; BB; BY; BE; BZ; BJ; BM; BT; BO; BA; BW; BV; BR; IO; BN; BG; BF; BI; KH; CM; CA; CV; KY; CF; TD; CL; CN; CX; CC; CO; KM; CG; CD; CK; CR; CI; HR; CU; CY; CZ; DK; DJ; DM; DO; EC; EG; SV; GQ; ER; EE; ET; FK; FO; FJ; FI; FR; GF; PF; TF; GA; GM; GE; DE; GH; GI;	The full list is located in the CODCommon schema.

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Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
					GR; GL; GD; GP; GU; GT; GN; GW; GY; HT; HM; VA; HN; HK; HU; IS; IN; ID; IR; IQ; IE; IL; IT; JM; JP; JO; KZ; KE; KI; KP; KR; KW; KG; LA; LV; LB; LS; LR; LY; LI; LT; LU; MO; MK; MG; MW; MY; MV; ML; MT; MH; MQ; MR; MU; YT; MX; FM; MD; MC; MN; MS; MA; MZ; MM; NA; NR; NP; NL; AN; NC; NZ; NI; NE; NG; NU; NF; MP; NO; OM; PK; PW; PS; PA; PG; PY; PE; PH; PN; PL; PT; PR; QA; RE; RO; RU; RW; SH; KN; LC; PM; VC; WS; SM; ST; SA; SN; CS; SC; SL; SG; SK; SI; SB; SO; ZA; GS; ES; LK; SD; SR; SJ; SZ; SE; CH; SY; TW; TJ; TZ; TH; TL; TG; TK; TO; TT; TN; TR; TM; TC; TV; UG; UA; AE; GB; US; UM; UY; UZ; VU; VE; VN; VG; VI; WF; EH; YE; ZM; ZW (Code indicating country. Use ISO 3166-1 alpha-2 standard found at www.iso.org)	
34	<EmailAddress>	N	0/1	string	maxLength of 128	SL.gov has the following validation for email address: <code>[_A-Za-z0-9-]+(\.[_A-Za-z0-9-]+)*@[_A-Za-z0-9-]*(\.[_A-Za-z0-9-]*)*(\.[_A-Za-z0-9-]*+)</code> This means one or more letters, digits, underscore or dash, optionally followed by sequence of a period, followed by one or more letters, digits, underscore or dash, zero or more times, followed by @, followed by one or more letters, digits, underscore or dash, followed optionally by sequence of a period, followed by one or more letters, digits, underscore or dash, zero or more times.
35	<PhoneNumber>	N	0/unbounded	NA	NA	Complex element

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
36	<Number>	Y	1/1	string	Minlength of 7 and maxLength of 17	Minlength of 10, numbers only (no hyphens, parentheses, or letters); Leading zeroes will be accepted.
37	<Type>	N	0/1	string	Home; Office; Mobile; Fax; Other	
38	<Relationship>	N	0/1	token	Maxlength of 50	Father Mother Grandfather Grandmother Neighbor Friend Teacher Father-In-Law Mother-In-Law Employer Other (this is a user entered value with a maximum length of 50)
39	<UnderlyingLoans>	N	0/unbounded	NA	NA	Complex element
40	<Response>	N	0/1	NA	NA	Will not be sent for this block.

5 Response Block Information

The Response block is an optional block within the Application Schema. The Response block includes response codes and error codes. The following table explains what fields are required or optional if the Response block is included in the Repayment Application Response File. Response blocks are required at the Document and Borrower block level, and will not be sent at the Repayment Application and Underlying Loan level. Although response blocks are only required at the Document and Borrower block level, the Repayment Application block along with all required tags and the TransactionID tag are required to be sent in the Response file. The Federal Servicers can send multiple EditProcessResult complex elements within the response block. The COD System will not process the response file if it does not contain a response block at the document level and for each borrower from the request file. Document level rejects will be corrected and sent back to the Federal Servicer. Borrower level rejects will be corrected and sent in a subsequent request file.

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
1	<Response>	N	0/1	NA	NA	Complex element
2	<ResponseCode>	Y	1/1	string	Accepted Rejected	The Servicers will send either 'Accepted' or 'Rejected' for each response block.
3	<EditProcessResult>	N	0/100	NA	NA	Complex element
4	<ResponseErrorCode>	Y	1/1	string	Minlength of 3 maxLength of 4	Edit result from Servicer processing. Required if the EditProcessResult complex element is present. The codes are listed in the Servicer Support Guide.
5	<ResponseMessage>	N	0/1	String	Minlength of 1 Maxlength of 160	The text of the edit result.
6	<ResponseErrorField>	Y	1/1	String	Minlength of 1 Maxlength of 50	Indicates the tag referenced by ResponseErrorCode. Required if the EditProcessResult complex element is present.
7	<ResponseErrorValue>	N	0/1	String	Minlength of 1 maxLength of 150	The new value in a field if a correction is applied. The servicer should not send this field.
8	<ReportedValue>	N	0/1	string	minLength of 1; maxLength of 150	The value reported in the tag contained in the ResponseErrorField

6 Underlying Loans Block Information

The Underlying Loans block is an optional block within the Application Schema that includes loan data. There will be one Underlying Loans block per loan received from NSLDS. The following table explains what fields are required or optional for the Underlying Loans block when it is included in the Repayment Application Request File.

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
1	<UnderlyingLoans>	N	1/1	NA	NA	Complex element - holds all loan details. One block per loan.
2	<ConsolidationIndicator>	N	0/1	string	Boolean	Will not be sent.
3	<LoanHolder>	N	0/unbounded	NA	NA	Complex element
4	<LoanHolderType>	N	0/1	token	Lender Lender Servicer School School Servicer Guaranty Agency HHS	Indicates the type of Loan Holder is associated with the Underlying Loan. This will only be sent if COD receives the value from NSLDS. NSLDS will not be sending at this time.
5	<LoanHolderCode>	Y	1/1	token	Minlength of 0 and maxLength of 8	GA should have a 3 digit code School should have an 8 digit code Lender Servicer should have 6 digit
6	<LoanHolderName>	N	0/1	string	minLength of 1 and maxLength of 65	Name of non-person entity such as organization, institution, agency or business.
7	<Address>	N	0/1	NA	NA	Complex element
8	<AddressLine>	Y	1/3	string	minLength of 1; maxLength of 40	Loan Holder Address. Value received from NSLDS
9	<City>	Y	1/1	string	minLength of 1; maxLength of 24	Loan Holder Address. Value

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Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
						received from NSLDS
10	<State>	N	0/1	token	AA; AB; AE; AK; AL; AP; AR; AS; AZ; BC; CA; CO; CT; CZ; DC; DE; FL; FM; GA; GU; HI; IA; ID; IL; IN; KS; KY; LA; MA; MB; MD; ME; MH; MI; MN; MO; MP; MS; MT; NB; NC; ND; NE; NF; NH; NJ; NL; NM; NS; NT; NU; NV; NY; OH; OK; ON; OR; PA; PE; PR; PW; QC; RI; SC; SD; SK; TN; TX; UT; VA; VI; VT; WA; WI; WV; WY; YT	Loan Holder Address. Value received from NSLDS
11	<ZipCode>	N	0/1	string	Minlength of 5, maxlength of 9	Loan Holder Address. Value received from NSLDS
12	<Country>	N	0/1	string	AF; AX; AL; DZ; AS; AD; AO; AI; AQ; AG; AR; AM; AW; AU; AT; AZ; BS; BH; BD; BB; BY; BE; BZ; BJ; BM; BT; BO; BA; BW; BV; BR; IO; BN; BG; BF; BI; KH; CM; CA; CV; KY; CF; TD; CL; CN; CX; CC; CO; KM; CG; CD; CK; CR; CI; HR; CU; CW;CY; CZ; DK; DJ; DM; DO; EC; EG; SV; GQ; ER; EE; ET; FK; FO; FJ; FI; FR; GF; PF; TF; GA; GM; GE; DE; GH; GI; GR; GL; GD; GP; GU; GT; GN; GW; GY; HT; HM; VA; HN; HK; HU; IS; IN; ID; IR; IQ; IE; IL; IT; JM; JP; JO; KZ; KE; KI; KP; KR; KW; KG; LA; LV; LB; LS; LR; LY; LI; LT; LU; MO; MK; MG; MW; MY; MV; ML; MT; MH; MQ; MR; MU; YT; MX; FM; MD; MC; MN; MS; MA; MZ; MM; NA; NR; NP; NL; AN; NC; NZ; NI; NE; NG; NU; NF; MP; NO; OM; PK; PW; PS; PA; PG; PY; PE; PH; PN; PL; PT; PR; QA; RE; RO; RU; RW; SH; KN; LC; PM; VC; WS; SM; ST; SA; SN; CS; SC; SL; SG; SK; SI; SB; SO; ZA; GS; ES; LK; SD; SR; SJ; SZ; SE; CH; SY; SS; TW; TJ; TZ; TH; TL; TG; TK; TO; TT; TN; TR; TM; TC; TV; UG; UA; AE; GB; US; UM; UY; UZ; VU; VE; VN; VG; VI; WF; EH; YE; ZM; ZW (Code indicating country. UseISO 3166-1 alpha-2 standard found at www.iso.org)	
13	<PhoneNumber>	N	0/unbounded	NA	NA	Complex element

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
14	<Number>	Y	1/1	string	Minlength of 7 and maxLength of 17	Loan Holder's Phone Number. Value received from NSLDS. Minlength of 10, numbers only (no hyphens, parentheses, or letters); Leading zeroes will be accepted.
15	<Type>	N	0/1	string	Home; Office; Mobile; Fax; Other	This will not be sent.
16	<NSLDSLabel>	N	0/1	Token	Maxlength 17	Receiving from NSLDS and sending in file.
17	<AwardID>	N	0/1	token	Maxlength of 23	The logical code, which uniquely identifies a student loan/award. Once assigned, this ID does not change.
18	<AwardType>	N	0/1	string	Subsidized Federal Stafford Federal Insured Student Direct Subsidized Direct Subsidized Consolidation Federal Perkins Unsubsidized Federal Stafford Federal Supplemental Direct Graduate PLUS Direct Unsubsidized Consolidation Direct Unsubsidized National Direct Student National Defense Student Federal Graduate PLUS Federal Parent PLUS Direct Parent PLUS Direct Consolidation PLUS Guaranteed Student Unsubsidized Federal Consolidation Subsidized Federal Consolidation Auxiliary Loans Health Professions Health Education Nursing Student Disadvantaged Students	An indicator for a specific loan program

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
					Ineligible Educations Loans FFEL Consolidation Direct Subsidized SULA Direct Subsidized Consolidation SULA	
19	<AwardDate>	N	0/1	date	CCYY-MM-DD Example: 2010-07-08	<p>This value will be received from NSLDS as Loan Date. This attribute is part of the identifier and has multiple sources depending on the type of loan (FFEL vs campus-based) and the status of the loan.</p> <p>If the loan is a FFEL loan, the Date of Guaranty is populated into this field. This value will remain throughout the life of the loan.</p> <p>If the loan is campus-based or is a direct loan, then the date of first disbursement is populated into this field.</p>
20	<AwardSSN>	N	0/NA	string	[0-9] {9}	Should always have one SSN associated with the loan, either the Initiator's SSN or the Spouse's SSN. The borrower/initiator loans and the spouse loans will be sent in the Repayment Application block.
21	<LoanStatus>	N	0/1	string	Abandoned loan; Bankruptcy, Discharged; Bankruptcy, Active; Cancelled; Closed School; Discharge; Deferred; Defaulted, Then Bankrupt, Active, Chapter 13; Defaulted, Compromise; Defaulted, Then Died; Death; Defaulted, Unresolved;	An indicator for a specific loan program.

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
					Disability; Defaulted,Then Bankrupt, Discharged, Chapter 13; Defaulted, In Litigation; Defaulted,then paid in full by consolidation; Defaulted, Then Bankrupt, Active, Other; Defaulted,Paid in Full; Defaulted loan included in a rolled-up loan; Defaulted, Then Disabled; Defaulted, Collection Terminated; Defaulted, Unresolved; Defaulted, Write-Off; Defaulted, Six Consecutive Payments; Defaulted, six consecutive payments, then missed payment(s); Forbearance; False Certification; Discharge; Fraud; Fraud, Satisfied; Loan Originated; In School or Grace Period; In Grace Period; In Military Grace; In Post- Deferment Grace Period for Perkins Loans only; Paid in Full Through Consolidation Loan; Permanently Disability; Paid in Full; Presumed paid-in-full; Non-defaulted, Paid in Full Through Consolidation Loan; PLUS Child Death; Refinanced; In Repayment; Temporarily uninsured- loan not in default; Temporarily uninsured-loan in default; Permanently Uninsured / Unreinsured-loan not in default; Permanently Uninsured / Unreinsured- loan in default; Uninsured / Unreinsured; Unknown Loan Status; Disabled Veteran Discharged; Defaulted, Six Consecutive Payments;	
22	<DefermentForbearanceEndDate>	N	0/1	Date	CCYY-MM-DD Example: 2010-07-08	The date the period of the deferment, waiver or forbearance ended, or is scheduled to end.
23	<LoanStatusDate>	N	0/1	date	CCYY-MM-DD Example: 2010-07-08	Receiving from NSLDS and sending in the file.
24	<LoanAccountNumber>	N	0/1	token	maxLength of 50	The Loan Account number is the number that appears on the borrower's loan statement.

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
25	<LoanSource>	N	0/1	token	NSLDS Manual Other	If the loan information is pulled from the NSLDS real time feed, this value will be NSLDS. All Repayment Application loans will be from NSLDS.
26	<RepaymentProgram>	N	0/1	token	Income-Contingent Repayment Plan – Formula Amount (Pre-HERA/CCRAA), Income-Contingent Repayment Plan – Capped Amount (Pre-HERA/CCRAA), Income-Contingent Repayment Plan (Post-HERA/CCRAA), Consolidation Graduated Repayment, Consolidation Standard Repayment, Extended Fixed Repayment, Extended Graduated Repayment, Fixed Payment, Extended Term, Fixed Payment, Fixed Term, Graduated Repayment, Income-Based Repayment Plan – 2014 With Partial Financial Hardship, Income-Based Repayment Plan – 2014 Without Partial Financial Hardship, Income-Based Repayment – With Partial Financial Hardship, Income-Contingent, Income-Based Repayment Plan – Without Partial Financial Hardship, Income Sensitive Repayment Plan (FFEL Only), Alternative Fixed Payment Repayment Plan, Alternative Fixed Term Repayment Plan , Alternative Graduated Payment Repayment Plan , Alternative Negative Amortization Repayment Plan , Pay As You Earn – Without Partial Financial Hardship,	This tag will not be sent.

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
					Pay As You Earn – With Partial Financial Hardship, Standard Repayment, Graduated 10-Year Repayment, Perkins Standard Repayment Plan, Special Plan/Secretary's Option, REPAYE Repayment Plan Post-REPAYE-Alternative-Fixed Repayment Plan REPAYE Repayment Plan - Undergraduate Eligible For Forgiveness REPAYE Repayment Plan - Graduate Eligible For Forgiveness	
27	<DateOfDisclosure>	N	0/1	Date	CCYY-MM-DD Example: 2010-07-08	The date that the loan entered a repayment plan type.
28	<IDRAnniversaryDate>	N	0/1	date	CCYY-MM-DD Example: 2010-07-08	The reevaluation date is based on when the borrower initially entered the plan.
29	<EstimatedPayoffAmount>	N	0/1	decimal	minInclusive of -9999999999.99 and maxInclusive of 9999999999.99	Total outstanding balance. This is outstanding principal balance in addition to the outstanding interest balance. This field will be sent in the file.
30	<CurrentBalance>	N	0/1	decimal	minInclusive of -9999999999.99 and maxInclusive of 9999999999.99	Not receiving from NSLDS or sending field in file for this phase
31	<OriginalOPEID>	N	0/1	string	Length of 8	Not receiving from NSLDS or sending field in file for this phase.
32	<CurrentOPEID>	N	0/1	string	Length of 8	Not receiving from NSLDS or sending field in file for this phase.
33	<LoanSequenceNumber>	N	0/1	integer	Max size of 4	New field received from

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
						NSLDS with this phase.
34	<FirstDisbursementDate>	N	0/1	date	CCYY-MM-DD Example: 2010-07-08	Receiving from NSLDS real time feed.
35	<ExpectedGracePeriodEndDate>	N	0/1	date	CCYY-MM-DD Example: 2010-07-08	Not receiving from NSLDS or sending field in file for this phase.
36	<RepaymentInformation>	N	0/1	NA	NA	Complex Element
37	<OriginalPrincipalBalance>	N	0/1	decimal	minInclusive of -9999999999.99 and maxInclusive of 9999999999.99	Receiving from NSLDS real time feed.
38	<RepaymentStartDate>	N	0/1	date	CCYY-MM-DD Example: 2010-07-08	Not receiving from NSLDS or sending field in file for this phase.
39	<OutstandingPrincipalBalance>	N	0/1	decimal	minInclusive of -9999999999.99 and maxInclusive of 9999999999.99	Receiving from NSLDS real time feed.
40	<OutstandingAccruedInterest>	N	0/1	decimal	minInclusive of -9999999999.99 and maxInclusive of 9999999999.99	Receiving from NSLDS real time feed.
41	<OutstandingFeeBalance>	N	0/1	decimal	minInclusive of -9999999999.99 and maxInclusive of 9999999999.99	Not receiving from NSLDS or sending field in file for this phase.
42	<CurrentPrincipalBalance>	N	0/1	decimal	minInclusive of -9999999999.99 and maxInclusive of 9999999999.99	Not receiving from NSLDS or sending field in file for this phase.
43	<CurrentInterestBalance>	N	0/1	decimal	minInclusive of -9999999999.99 and maxInclusive of 9999999999.99	Not receiving from NSLDS or sending field in file for this phase.
44	<InterestRate>	N	0/1	decimal	totalDigits=7 and fractionDigits=3	Receiving from NSLDS real time feed. For a FFEL program loan, this is the interest rate at the time the guaranty is made. For Perkins Loans, this is the interest rate when the loan is disbursed.
45	<InterestRateType>	N	0/1	string	Variable; Fixed	Receiving from NSLDS real

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
						time feed. A code indicating whether the interest rate on a Perkins Loan or a FFEL Program Loan is variable or fixed for the life of a loan (may also be '8')
46	<GuarantyDate>	N	0/1	date	CCYY-MM-DD Example: 2010-07-08	Not receiving from NSLDS or sending field in file for this phase.
47	<SchoolCode>	N	0/1	String	Length of 8	Receiving from NSLDS real time feed. OPE ID: Concatenation of the School Code and the School Branch Code where the loan was initiated.
48	<SeparateLoanIndicator>	N	0/1	string	boolean	Not receiving from NSLDS or sending field in file for this phase.
49	<CoborrowerFlag>	N	0/1	string	Boolean	Not receiving from NSLDS or sending field in file for this phase.
50	<UnderlyingParentPlusLoanFlag>	N	0/1	string	Boolean	Indicates the consolidation loan being reported includes one or more underlying Parent PLUS loans.
51	<JointConsollIndicator>	N	0/1	string	boolean	Indicates the consolidation loan being reported is a joint consolidation.
52	<NSLDSGradeLevel>	N	0/1	String	Will send the following 1 character: A, B, C, D, G, N, 1, 2, 3, 4, 5	A code indicating the academic level of the applicant at the time of the prescreening. If blank, no tag will be sent.
53	<LossOfSubsidyStatus>	N	0/1	String	Will send the following: Lost Subsidy Reinstated Subsidy Protected Subsidy	The subsidy status provided by NSLDS to the Federal Loan Servicer in the Subsidy Notification file. (Blank =

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
						Subsidized)
54	<LossOfSubsidyStatusDate>	N	0/1	date	CCYY-MM-DD Example: 2010-07-08	The effective date of the subsidy status provided by NSLDS to the Federal Loan Servicer in the Subsidy Notification file.
55	<FamilySize>	N	0/1	Integer	minInclusive of 1 and maxInclusive of 99	Specifies the family size number provided by the applicant on the previous Income Driven Repayment application.
56	<RepaymentProgramStatus>	N	0/1	token	Pending Submitted Sent Expired Cancelled Completed Draft SignaturePending Misdirected Accepted Declined	Not receiving from NSLDS or sending field in file for this phase.
57	<RepaymentProgramStatusDate>	N	0/1	date	CCYY-MM-DD Example: 2010-07-08	Not receiving from NSLDS or sending field in file for this phase. This field would be used in a response file from the servicers.
58	<RepaymentProgramCertificationDate>	N	0/1	date	CCYY-MM-DD Example: 2010-07-08	Not receiving from NSLDS or sending field in file for this phase. This field would be used in a response file from the servicers.
59	<RepaymentProgramRecertificationDate>	N	0/1	date	CCYY-MM-DD Example: 2010-07-08	Not receiving from NSLDS or sending field in file for this phase. This field would be used in a response file from the

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
						servicers.
60	<Response>	N	0/1	NA	NA	Complex element. Will not be sent for this block.

Repayment Application File Layout

Repayment Application Block Information

The Repayment Application block is an optional block within the Application Schema and will be sent for each Repayment Application on StudentLoans.gov. The following table explains what fields are required or optional for the Repayment Application block when it is included in the Repayment Application Request File.

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
1	<RepaymentApplication>	N	0/NA	NA	NA	Complex element – One block per repayment application on StudentLoans.gov
2	<TransactionID>	N	0/1	string	RCCYYMMDDHHmmssSSSxxxxxxx R-Indicates that this ID is at the Repayment Application level CCYYMMDDHHmmssSSS-Indicates the date and time stamp when the CPN transaction ID was created. xxxxxxx-Indicates the Routing ID of COD	A unique transaction ID that will be assigned to the Repayment Application block by COD. The Response and Request file will use the same transaction ID.
3	<ApplicationID>	Y	1/1	integer		This will be the application ID for the Repayment application. It will be a unique, auto generated sequential number.
4	<ApplicationStatus>	N	0/1	token	Pending Submitted Sent Expired Cancelled Completed Draft SignaturePending Misdirected	This field will be sent and should always be 'Completed'.

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
					Accepted Declined	
5	<RepaymentPrograms>	Y	1/1	NA	NA	Complex element. Repayment programs being applied for are listed within this element.
6	<RepaymentProgram>	N	0/NA	token	Income Contingent B PayAsYouEarn Income-Based Repayment Plan Plan with the lowest monthly payment REPAYE	Will send: Income Contingent B PayAsYouEarn Income-Based Repayment Plan Plan with the lowest monthly payment REPAYE
7	<CompletionTimestamp>	Y	1/1	dateTime	CCYY-MM-DDThh:mm:ss	Example: 2010-07-08T20:12:52
8	<SpouseHasIBREligibleLoans>	N	0/1	string	boolean	This will not be sent
9	<JointConsolidatedLoan>	N	0/1	string	boolean	This will not be sent
10	<JointRepaymentPlanRequest>	N	0/1	string	boolean	This tag corresponds to the question "My spouse and I wish to repay my direct loans jointly under the ICR plan."
11	<PaperPackage>	N	0/1	string	boolean	Will send 'Y' when either <InitDocumentOfIncome> or <CoDocumentOfIncome> is set to 'Y'
12	<InitDocumentOfIncome>	N	0/1	String	Boolean	This will be sent if the Initiator is required to submit Additional Documentation of Income

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
13	<CoDocumentOfIncome>	N	0/1	String	Boolean	This will be sent if the Initiator must submit Additional Documentation of income on behalf of their Spouse.
14	<InitTaxInfo>	N	0/1	String	Boolean	This will not be sent with 14.3. Field is added for future use.
15	<CoTaxInfo>	N	0/1	String	Boolean	This will not be sent with 14.3. Field is added for future use
16	<RepaymentReason>	N	0/1	String	String will send: New Recertify Recalculate ChangePlan	These values will be sent based on the answer to the question "Select the reason you are submitting this form"
17	<DefermentForbearance>	N	0/1	String	Will send the following : No PayNow DeferPay	This corresponds to the question "Are you currently in a deferment or forbearance?"
18	<Children>	N	0/1	integer	Min Inclusive of 0 MaxInclusive of 99	This corresponds to the question "How many children, including unborn children, are in your family and receive more than half of their support from you?"
19	<Dependents>	N	0/1	integer	Min Inclusive of 0 MaxInclusive of 99	This corresponds to the question "How many people, excluding your spouse and children, live with you, and receive more than half of their support from you?"
20	<MaritalStatus>	N	0/1	String	Will send the following values: Married Single	This corresponds to the question "What is your marital status?"
21	<Separated>	N	0/1	String	Boolean	This corresponds to the question "Are you separated from your spouse?"
22	<AccessToSpouse>	N	0/1	String	Boolean	This corresponds to the question "Are you able to access information about your spouse's income and able to have your spouse sign this

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
						application?"
23	<PSLF>	N	0/1	String	Boolean	This corresponds to the question "Do you work for a no-profit or government organization?"
24	<ReducedPaymentForbearance>	N	0/1	decimal	minInclusive of 0.00 and maxInclusive of 999999.99	This corresponds to "I want a one-month reduced-payment forbearance in the amount of \$_____"
25	<SuspiciousApplicationFlag>	N	0/1	String	Boolean	Will not send this tag with Release 14.3. This tag will be true or false depending on if the application is submitted from a suspicious IP address or with a suspicious E-Mail Address
26	<EmailOrIP>	N	0/1	String	Will Send the following values: Email IP	Will not send this tag with Release 14.3. This tag will explain the reason for a suspicious application.
27	<NSLDSUnavailableReason>	N	0/1	String	Will send the following: NSLDS Error COD Error Student Not Found Multiple Students Found No Loans Zero Balance Exceeds Threshold	This tag will send the NSLDS Status code for the initiator. Will not send if NSLDS was available.
28	<ReferringSourceID>	N	0/1	integer		The servicer ID of the Servicer who referred the Initiator to SL.gov. The COD ID, 00000001, if the Initiator was not referred to the SL.gov flow by a Servicer.

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
29	<Spouse>	N	0/1	NA	NA	Complex element This field will be sent if the <MaritalStatus> tag is set to 'Married' and the <Separated> tag is NOT set to 'Y' and the <AccessToSpouse> tag is NOT set to 'N'.
30	<IncomeInformation>	N	0/1	NA	NA	Complex element: This is the borrower's income information.
31	<UnderlyingLoans>	N	0/unbounded	NA	NA	Complex element
32	<Response>	N	0/1	NA	NA	Complex element. Will not be sent for this block.

Repayment Application File Layout

7 Spouse Block Information

The Spouse block is an optional block within the Application Schema and will only be sent if the borrower selects one of the spouse indicators on the Repayment Application on StudentLoans.gov. The following table explains what fields are required or optional if the Spouse block is included in the Repayment Application Request File.

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
1	<SSN>	Y	1/1	string	[0-9] {9}	<SSN>
2	<Identifiers>	N	0/1	NA	NA	Complex element
3	<DateOfBirth>	N	1/1	date		CCYY-MM-DD Example: 2010-07-08
4	<DriversLicenseState>	N	0/1	token	AA; AB; AE; AK; AL; AP; AR; AS; AZ; BC; CA; CO; CT; CZ; DC; DE; FL; FM; GA; GU; HI; IA; ID; IL; IN; KS; KY; LA; MA; MB; MD; ME; MH; MI; MN; MO; MP; MS; MT; NB; NC; ND; NE; NF; NH; NJ; NL; NM; NS; NT; NU; NV; NY; OH; OK; ON; OR; PA; PE; PR; PW; QC; RI; SC; SD; SK; TN; TX; UT; VA; VI; VT; WA; WI; WV; WY; YT	Full enumerated list in the CODCommon schema.
5	<DriversLicenseNumber>	N	0/1	string	minLength of 1; maxLength of 20	
6	<FullName>	N	0/1	NA	Complex element	Complex element
7	<Title>	N	0/1	string	minLength of 1, maxLength of 35	An honorific, title or form of address that precedes the name. Not collected.
8	<FirstName>	N	0/1	string	minLength of 1, maxLength of 35	The first name of the person, usually given at birth, baptism, during another ceremony, or through legal change. This is collected.
9	<LastName>	N	0/10	String	minLength of 1, maxLength of 35	The last name or surname by which a person is legally known. This is collected.
10	<Suffix>	N	0/1	string	minLength of 1, maxLength of 35	Not collected.
11	<MiddleInitial>	N	0/1	string	Minlength of 1 maxlength of 1	A secondary Name of the person, usually given at birth, baptism, or during another naming ceremony or through legal change. This is collected.

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
12	<Contacts>	N	0/1	NA	NA	Complex element
13	<Address>	N	0/unbounded	NA	NA	Complex element
14	<AddressLine>	Y	1/3	string	minLength of 1, maxLength of 40	
15	<City>	Y	1/1	string	minLength of 1, maxLength of 24	
16	<State>	N	0/1	token	AA; AB; AE; AK; AL; AP; AR; AS; AZ; BC; CA; CO; CT; CZ; DC; DE; FL; FM; GA; GU; HI; IA; ID; IL; IN; KS; KY; LA; MA; MB; MD; ME; MH; MI; MN; MO; MP; MS; MT; NB; NC; ND; NE; NF; NH; NJ; NL; NM; NS; NT; NU; NV; NY; OH; OK; ON; OR; PA; PE; PR; PW; QC; RI; SC; SD; SK; TN; TX; UT; VA; VI; VT; WA; WI; WV; WY; YT	The full list is located in the CODCommon schema.
17	<ZipCode>	N	0/1	string	Minlength of 5, maxlength of 9	
18	<Country>	N	0/1	string	AF; AX; AL; DZ; AS; AD; AO; AI; AQ; AG; AR; AM; AW; AU; AT; AZ; BS; BH; BD; BB; BY; BE; BZ; BJ; BM; BT; BO; BA; BW; BV; BR; IO; BN; BG; BF; BI; KH; CM; CA; CV; KY; CF; TD; CL; CN; CX; CC; CO; KM; CG; CD; CK; CR; CI; HR; CU; CW;CY; CZ; DK; DJ; DM; DO; EC; EG; SV; GQ; ER; EE; ET; FK; FO; FJ; FI; FR; GF; PF; TF; GA; GM; GE; DE; GH; GI; GR; GL; GD; GP; GU; GT; GN; GW; GY; HT; HM; VA; HN; HK; HU; IS; IN; ID; IR; IQ; IE; IL; IT; JM; JP; JO; KZ; KE; KI; KP; KR; KW; KG; LA; LV; LB; LS; LR; LY; LI; LT; LU; MO; MK; MG; MW; MY; MV; ML; MT; MH; MQ; MR; MU; YT; MX; FM; MD; MC; MN; MS; MA; MZ; MM; NA; NR; NP; NL; AN; NC; NZ; NI; NE; NG; NU; NF; MP; NO; OM; PK; PW; PS; PA; PG; PY; PE; PH; PN; PL; PT; PR; QA; RE; RO; RU; RW; SH; KN; LC; PM; VC; WS; SM; ST; SA; SN; CS; SC; SL; SG; SK; SI; SB;	The full list is located in the CODCommon schema.

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Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
					SO; ZA; GS; ES; LK; SD; SR; SJ; SZ; SE; CH; SY; SS; TW; TJ; TZ; TH; TL; TG; TK; TO; TT; TN; TR; TM; TC; TV; UG; UA; AE; GB; US; UM; UY; UZ; VU; VE; VN; VG; VI; WF; EH; YE; ZM; ZW (Code indicating country. Use ISO 3166-1 alpha-2 standard found at www.iso.org)	
19	<EmailAddress>	N	0/1	string	maxLength of 128	SL.gov has the following validation for email address: <code>[_A-Za-z0-9-]+\(\.[_A-Za-z0-9-]*\)*@[_A-Za-z0-9-]*\(\.[_A-Za-z0-9-]*\)\(\.[_A-Za-z0-9-]*\)</code> This means one or more letters, digits, underscore or dash, optionally followed by sequence of a period, followed by one or more letters, digits, underscore or dash, zero or more times, followed by @, followed by one or more letters, digits, underscore or dash, followed optionally by sequence of a period, followed by one or more letters, digits, underscore or dash, zero or more times.
20	<PhoneNumber>	N	0/unbounded	NA	NA	Complex element
21	<Number>	Y	1/1	string	Minlength of 7 and maxLength of 17	Minlength of 10, numbers only (no hyphens, parentheses, or letters); Leading zeroes will be accepted.
22	<Type>	N	0/1	string	Home; Office; Mobile; Fax; Other	
23	<IncomeInformation>	N	0/1	NA	NA	Complex element. See subsequent section. This is the spouse's income information.
24	<NSLDSUnavailableReason>	N	0/1	String	Will send the following: NSLDS Error COD Error Student Not Found Multiple Students Found No Loans Zero Balance	This tag will send the NSLDS Status code for the initiator. Will not send if NSLDS was available.

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
					Exceeds Threshold	
25	<MarriedFlag>	N	0/1	string	boolean	This will not be sent.
26	<ContactLanguage>	N	0/1	string	English Spanish	This will not be sent.
27	<ContactTime>	N	0/1	NA	NA	Complex element
28	<Start>	N	0/1	string	Format: hh:mm.	Every hour on the hour. Example: 15:00
29	<End>	N	0/1	string	Format: hh:mm.	Every hour on the hour. Example: 15:00
30	<Response>	N	0/1	NA	NA	Complex element. Will not be sent for this block.

8 Income Information Block Information

The Income Information block is an optional block within the Application Schema. The following table explains what fields are required or optional if the Income Information block is included in the Repayment Application Request File.

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
1	<IncomeInformation>	N	0/1	NA	NA	Complex element.
2	<IRSData>	N	0/1	NA	NA	Complex element – data received from call to IRS. Will only occur if data is received and transferred from IRS. Even if borrower disagrees with IRS data, it will still be passed to the Servicers if the data was imported to SL.gov.
3	<IRSRetrievalTimestamp>	Y	1/1	dateTime	CCYY-MM-DDThh:mm:ss	Example: 2010-07-08T20:12:52
4	<TaxYear>	Y	1/1	integer		The borrower can pull current or prior year taxes and this field will define which year's taxes were pulled from IRS.
5	<FilingStatus>	Y	1/1	string	Single; Married Filing Jointly; Married Filing Separately; Head of Household; Qualifying Widower	This tag will be sent when IRS data is pulled for the borrower.
6	<AdjustedGrossIncome>	Y	1/1	integer	minInclusive of -9999999999 and maxInclusive of 9999999999	
7	<AGIReflectsCurrentIncome>	N	0/1	string	COD will send: 'Y' 'N'	The <AGIReflectsCurrentIncome> tag will be populated in the file if IRS data is returned because the Initiator will be required to check whether or not the AGI reflects current income. Will send as character with size = 1.
8	<ManuallySubmittedIncome>	N	0/1	integer	minInclusive of -9999999999 and maxInclusive of 9999999999	This is a retired field.
9	<PaperPackage>	N	0/1	string	boolean	This will not be sent. The PaperPackage field at the Repayment Application field will be sent.
10	<FileJointly>	N	0/1	string	boolean	This corresponds to the question "When you filed your last federal income tax return, did you file jointly with your spouse?" Will be populated based on IRS data if IRS data is transferred or will be populated if answered by user.

Repayment Application File Layout

Field #	<tag>	Required?	Min/Max	Base	Value	Business Logic
11	<TemporaryForbearanceFlag>	N	0/1	string	boolean	This will not be sent.
12	<TaxesFiledFlag>	N	0/1	string	boolean	This corresponds to the "Did you file a federal income tax return for either of the two most recently completed tax years?" question.
13	<TaxableIncome>	N	0/1	string	boolean	This corresponds to the "Do you have taxable income" question in the IDR Flow if present in the Borrower block. This corresponds to the "Do you have taxable income" question presented to the spouse in the Co-Sign flow if present in the Spouse block.
14	<Response>	N	0/1	NA	NA	Complex Element. Will not be sent for this block.

9 Repayment Status Block Information

The Repayment Status block is an optional block within the Application Schema and will not be used at this time. The Repayment Status block includes status changes for different repayment applications.

United States Department of Education
Federal Student Aid

Xerox – COD
MPN, Endorser, Manifest Field Validation Rules
Document

Version 6.0

July 7, 2017

Validation Rules Document

Approval Control Sheet

This Interface Control Document was reviewed and approved by the following individuals:

, FSA COD Manager

Date

, FSA Ancillary Services Manager

Date

Validation Rules Document

Document Change Control

Date	Author	Version	Change Reference
1/23/17	Lydia Yi/Daniel Paylor	1	Creating document to provide validation rules for MPN, EA, Manifest fields
1/26/17	Lydia Yi/Daniel Paylor	2	Updated document based on Xerox clarifications
2/9/17	Lydia Yi/Daniel Paylor	3	Updated document based on Requirements Comparison (MPN Review Criteria vs Validation Rules doc)
2/21/17	Lydia Yi/Daniel Paylor	4	Updated document based on address field updates
	Lydia Yi/Daniel Paylor	4.2	Added Zip code changes and borrower/student SSN logic
	Lydia Yi/Daniel Paylor	4.3	Updated Employer Name- added spaces; frc location
5/16/17	Lydia Yi/Daniel Paylor	4.4	Updated ARN: max=10, reference relationship field not required for EA
	Lydia Yi/Daniel Paylor	4.5	CR discrepancy notes and changed values to match Common Record (noted in red font)
7/7/17	Lydia Yi/Daniel Paylor	5	Updated document according to PROD 116731 RCA
10/03/19	Calvin Chang	6	Updated document according to PROD-119060

Validation Rules Document

Validation Rules

MPN Direct PLUS

Description	Required	Length	Valid Values	Note
BorrowerFirstName	Y if BorrowerLastName not provided N if BorrowerLastName provided	N/A **COD will only store 30 characters but can accept more/less than 30	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)	Common Record has min=0, max=30 but the COD database stores up to 30 and strips off the rest. *Applies to all Firstname fields in this doc
BorrowerMiddleName	N	min=0, max=1	A-Z	
BorrowerLastName	Y if BorrowerFirstName not provided N if BorrowerFirstName provided	N/A **COD will only store 35 characters but can accept more/less than 35	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)	Common Record has min=0, max=35 but the COD database stores up to 35 and strips off the rest. *Applies to all Lastname fields in this doc
BorrowerAddress1	Y	**COD will only store 40 characters but can accept	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash)	Common Record has min=0, max=40 but the COD database stores up to 40 and strips off the rest.

Validation Rules Document

		more/less than 40	# (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40	
BorrowerAddress2	N	**COD will only store 40 characters but can accept more/less than 40	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)	Common Record has min=0, max=40 but the COD database stores up to 40 and strips off the rest.
BorrowerCity	Y	min=2 max= N/A *COD will only store 25 characters but can accept more/less than 25	A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)	Common Record has min=2, max=30 but the COD database stores up to 25 and strips off the rest.
BorrowerState	Y	min=2, max=2	A-Z 2-letter combinations that are US valid state abbreviations, and "FC" for a foreign country address. AA AE AK AL AP AR AS AZ CA CO CT DC DE	

Validation Rules Document

			FL FM GA GU HI IA ID IL IN KS KY LA MA MD ME MI MN MO MP MS MT NC ND NE NH NJ NM NV NY OH OK OR PA PR PW RI SC SD TN TX UT VA VI VT WA WI WV WY	
BorrowerZip	Y if state does NOT = FC (foreign code)	Min=1, max=17	0-9 Space(s) A-Z	Remove: Dashes for field values such that dashes will be rejected by the AS job. (During the manual visual inspection, dashes will be stripped before data entry). Modify: Min=1, Max=17 for field length to match Common Record
BorrowerSSN	Y	min=9, max=9	001010001-999999998	Common Record has min=7, max=9 but following the logic for requiring 9 digits as does COD Web and SL.
BorrowerDOB	Y	Min=10, max=10	YYYY-MM-DD *cannot be the same as DependentDOB	
BorrowerDLState	N	Min=2, max=2	A-Z A-Z 2-letter combinations that are US valid state abbreviations, and "FC" for a foreign country address. AA AE AK AL	

Validation Rules Document

			AP AR AS AZ CA CO CT DC DE FL FM GA GU HI IA ID IL IN KS KY LA MA MD ME MI MN MO MP MS MT NC ND NE NH NJ NM NV NY OH OK OR PA PR PW RI SC SD TN TX UT VA VI VT WA WI WV WY	
BorrowerDLNumber	Y only if DL State is available	Min=0,max=20	0-9 Space(s) A-Z * Asterisk - (dash) Required if Driver's License State is available	Modify: Min=0, Max=20 for field length to match Common Record * (Asterisk) – In CR layout
BorrowerEmail	N	Min = 0 Max = 128	Any valid keyboard character including an underscore; but not the pipe symbol or space. If the field is not blank, an @ and a "." (period) to the right of the @ are required and a valid character must exist prior to the "." (period) and after the "." (period).	
BorrowerPhone	N	Min=7 max=17	0-9	
Reference1FirstName	Y	Min=1 **COD will only store 30 characters but can accept more/less	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)	** Basing off of Borrower First Name rules.

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		than 30		
Reference1MI	N	min=0, max=1	A-Z	
Reference1LastNa me	Y	Min=1, **COD will only store 35 characters but can accept more/less than 35	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)	
Reference1Address 1	Y	N/A	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40	
Reference1Address 2	N	N/A	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash)	

Validation Rules Document

			Space(s) **COD will only store 40 characters but can accept more/less than 40	
Reference1City	min=2 max= N/A *COD will only store 25 characters but can accept more/less than 25	A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)	Common Record has min=2, max=30 but the COD database stores up to 25 and strips off the rest.	min=2 max= N/A *COD will only store 25 characters but can accept more/less than 25
Reference1State	Y	2	A-Z A-Z 2-letter combinations that are US valid state abbreviations, and "FC" for a foreign country address. AA AE AK AL AP AR AS AZ CA CO CT DC DE FL FM GA GU HI IA ID IL IN KS KY LA MA MD ME MI MN MO MP MS MT NC ND NE NH NJ NM NV NY OH OK OR PA PR PW RI SC SD TN TX UT VA	

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			VI WI	VT WV	WA WY	
Reference1Zip	Y if state does NOT = FC (foreign code)	Min=1, max=17	0-9 Space(s) A-Z			
Reference1Email	N	Min = 0 Max = 128	Any valid keyboard character including an underscore; but not the pipe symbol or space. If the field is not blank, an @ and a "." (period) to the right of the @ are required and a valid character must exist prior to the "." (period) and after the "." (period).			
Reference1Phone	N	Min=7 max=17	0-9			
Reference2FirstNa me	Y	N/A	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)			
Reference2MI	N	1	A-Z			
Reference2LastNa me	Y	N/A	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)			
Reference2Address 1	Y	N/A	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40			
Reference2Address	N	N/A	0 - 9			

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2			<p>A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40</p>	
Reference2City	Y	<p>min=2 max= N/A *COD will only store 25 characters but can accept more/less than 25</p>	<p>A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)</p>	<p>Common Record has min=2, max=30 but the COD database stores up to 25 and strips off the rest.</p>
Reference2State	Y	2	<p>A-Z 2-letter combinations that are US valid state abbreviations, and "FC" for a foreign country address.</p> <p>AA AE AK AL AP AR AS AZ CA CO CT DC DE FL FM GA GU HI IA ID IL IN KS KY LA MA MD ME MI MN MO MP MS MT NC ND NE NH NJ NM NV NY OH</p>	

Validation Rules Document

			OK OR PA PR PW RI SC SD TN TX UT VA VI VT WA WI WV WY	
Reference2Zip	Y if state does NOT = FC (foreign code)	Min=1, max=17	0-9 Space(s) A-Z	
Reference2Email	N	Min = 0 Max = 128	Any valid keyboard character including an underscore; but not the pipe symbol or space. If the field is not blank, an @ and a "." (period) to the right of the @ are required and a valid character must exist prior to the "." (period) and after the "." (period).	
Reference2Phone	N	Min=7 max=17	0-9	
Reference1Relationship	Y	N/A	FATHER MOTHER GRANDFATHER GRANDMOTHER NEIGHBOR FRIEND TEACHER FATHER-IN-LAW MOTHER-IN-LAW EMPLOYER OTHER SPOUSE *Note: Names not listed above will be accepted and fall under 'Other'	
Reference2Relationship	Y	N/A	FATHER MOTHER GRANDFATHER GRANDMOTHER NEIGHBOR FRIEND TEACHER FATHER-IN-LAW	

Validation Rules Document

			<p>MOTHER-IN-LAW EMPLOYER OTHER SPOUSE</p> <p>*Note: Names not listed above will be accepted and fall under 'Other'</p>	
SchoolName	Y	<p>Min=1, Max=N/A</p> <p>**COD will only store 70 characters but can accept more/less than 70</p>	<p>Space(s) 0-9 A-Z ' (Apostrophe) (Dash)</p>	
SchoolAddress1	N	N/A	<p>0 - 9 A - Z , (Comma) (Period) ' (Apostrophe) (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40</p>	
SchoolAddress2	N	N/A	<p>0 - 9 A - Z , (Comma) (Period) ' (Apostrophe) (dash) # (Number) @ (at) % (Percent care of)</p>	

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			& (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40	
SchoolCity	Y	min=2 max= N/A *COD will only store 25 characters but can accept more/less than 25	A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)	Common Record has min=2, max=30 but the COD database stores up to 25 and strips off the rest.
SchoolState	Y	2	A-Z 2-letter combinations that are US valid state abbreviations, and "FC" for a foreign country address. AA AE AK AL AP AR AS AZ CA CO CT DC DE FL FM GA GU HI IA ID IL IN KS KY LA MA MD ME MI MN MO MP MS MT NC ND NE NH NJ NM NV NY OH OK OR PA PR PW RI SC SD TN TX UT VA VI VT WA WI WV WY	
SchoolZip	Y if state does NOT = FC (foreign code)	Min=1,	0-9 Space(s)	

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		max=17	A-Z	
SchoolCode	Y	6	X00000-X99999 where X=G or E	**Not in Common Record or SLG Matrix
SchoolID	Y	min=21, max=21	0-9 A-Z Format example: 001033602N15G03386001 SSN: 001010001-999999998 MPN Type Indicator: M for Sub/Unsub, N for PLUS Award Year : Trailing year of the Award Year Direct Loan School Code: X00000-X99999 where X=G or E MPN Sequence Number: 001- 999 For Parent PLUS MPN: The first 9 digits of SchoolID have to match the DependentSSN For Grad PLUS MPN: The first 9 digits of SchoolID have to match the BorrowerSSN	*School ID on AS is the MPN ID. *Common Record has min=0, max=23 but we will validate that field is 21 chars to only allow valid MPN character length.
HasSignature	Y	1	1 if there's a signature 0 if no signature	**Not in Common Record
SignatureDate	Y	Min=10, max=10	YYYY-MM-DD	
BorrowerType	Y	1	N for Parent PLUS G for Grad PLUS	**Not in Common Record
BorrowerCitizenship	Y for Parent PLUS ONLY	1	1 if Citizen 2 if not Citizen	**Not in Common Record
BorrowerARN	Conditional: Only required if BorrowerCitizenship=2	Min=1,Max =10	0-9 A-Z	**Not in Common Record.
EmployerName	Y only if EmployerAddress populated	N/A	A-Z ' (Apostrophe) - (Dash) Space(s)	*Not in Common Record. Basing off of Borrower Name rules.

Validation Rules Document

			**COD will only store 30 characters but can accept more/less than 30	
EmployerAddress1	N	N/A	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40	
EmployerAddress2	N	N/A	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40	
EmployerCity	Y only if EmployerAddress populated	min=2 max= N/A *COD will only store 25 characters but can accept more/less than 25	A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)	Common Record has min=2, max=30 but the COD database stores up to 25 and strips off the rest.

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EmployerState	Y	2	<p>A-Z A-Z 2-letter combinations that are US valid state abbreviations, and "FC" for a foreign country address.</p> <p>AA AE AK AL AP AR AS AZ CA CO CT DC DE FL FM GA GU HI IA ID IL IN KS KY LA MA MD ME MI MN MO MP MS MT NC ND NE NH NJ NM NV NY OH OK OR PA PR PW RI SC SD TN TX UT VA VI VT WA WI WV WY</p>	
EmployerZip	Y if state does NOT = FC (foreign code)	Min=1, max=17	0-9 Space(s) A-Z	
EmployerPhone	N	Min=7 max=17	0-9	
DependentFirstName	Y only if Parent Borrower N if Grad Borrower	N/A	A-Z ' (Apostrophe) - (Dash) Space(s) . (period)	
DependentMiddleName	N	1	A-Z	
DependentLastName	Y only if Parent Borrower N if Grad Borrower	N/A	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)	

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DependentSSN	Y only if Parent Borrower N if Grad Borrower	9	001010001-999999998	
DependentDOB	Y only if Parent Borrower N if Grad Borrower	10	YYYY-MM-DD *Cannot be the same as BorrowerDOB	
HasPOA	Y	1	1 if True 0 if False	*Not in Common Record.
FRC location	Y only if in FRC Ready Queue	Max= 100	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)	*Not in Common Record.

MPN Direct Sub/Unsub

Description	Required	Length	Valid Values	Note
BorrowerAddress1	Y	N/A	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40	
BorrowerAddress2	N	N/A	0 - 9 A - Z , (Comma) . (Period)	

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			' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40	
BorrowerCity	Y	min=2 max= N/A *COD will only store 25 characte rs but can accept more/le ss than 25	A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)	Common Record has min=2, max=30 but the COD database stores up to 25 and strips off the rest.
BorrowerDOB	Y	10	YYYY-MM-DD	
BorrowerDLState	N	Min=2, max=2	A-Z 2-letter combinations that are US valid state abbreviations, and "FC" for a foreign country address. AA AE AK AL AP AR AS AZ CA CO CT DC DE FL FM GA GU HI IA ID IL IN KS KY LA MA MD ME MI MN MO MP MS MT NC ND NE NH NJ NM NV NY OH OK OR PA PR PW RI SC SD TN TX UT VA VI VT WA WI WV WY	

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BorrowerDLNumber	Y only if DL State is available	Min=0, max=20	0-9 Space(s) A-Z * Asterisk - (dash) Required if Driver's License State is available
BorrowerEmail	N	Min = 0 Max = 128	Any valid keyboard character including an underscore; but not the pipe symbol or space. If the field is not blank, an @ and a "." (period) to the right of the @ are required and a valid character must exist prior to the "." (period) and after the "." (period).
BorrowerFirstName	Y if BorrowerLastName not provided N if BorrowerLastName provided	N/A	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)
BorrowerLastName	Y if BorrowerFirstName not provided N if BorrowerFirstName provided	N/A	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)
BorrowerMiddleName	N	1	A-Z
BorrowerPhone	N	Min=7 max=17	0-9
BorrowerSSN	Y	9	001010001-999999998
BorrowerState	Y	2	A-Z 2-letter combinations that are US valid state abbreviations, and "FC" for a foreign country address. AA AE AK AL AP AR AS AZ CA CO CT DC DE FL FM GA GU HI IA ID IL IN KS KY LA MA MD ME MI

Validation Rules Document

			MN MO MP MS MT NC ND NE NH NJ NM NV NY OH OK OR PA PR PW RI SC SD TN TX UT VA VI VT WA WI WV WY	
BorrowerZip	Y if state does NOT = FC (foreign code)	Min=1, max=17	0-9 Space(s) A-Z	
HasSignature	Y	1	1 if there's a signature 0 if no signature	
Reference1Address 1	Y	N/A	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40	
Reference1Address 2	N	N/A	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40	
Reference1City	Y	min=2	A - Z , (Comma)	Common Record has min=2,

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		max= N/A *COD will only store 25 characte rs but can accept more/le ss than 25	. (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)	max=30 but the COD database stores up to 25 and strips off the rest.
Reference1Email	N	Min = 0 Max = 128	Any valid keyboard character including an underscore; but not the pipe symbol or space. If the field is not blank, an @ and a "." (period) to the right of the @ are required and a valid character must exist prior to the "." (period) and after the "." (period).	
Reference1FirstNa me	Y	N/A	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)	
Reference1LastNa me	Y	N/A	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)	
Reference1MI	N	1	A-Z	
Reference1Phone	N	Min=7 max=17	0-9	
Reference1Relation ship	Y	N/A	FATHER MOTHER GRANDFATHER GRANDMOTHER NEIGHBOR FRIEND TEACHER FATHER-IN-LAW	

Validation Rules Document

			MOTHER-IN-LAW EMPLOYER OTHER SPOUSE	
Reference1State	Y	2	A-Z 2-letter combinations that are US valid state abbreviations, and "FC" for a foreign country address. AA AE AK AL AP AR AS AZ CA CO CT DC DE FL FM GA GU HI IA ID IL IN KS KY LA MA MD ME MI MN MO MP MS MT NC ND NE NH NJ NM NV NY OH OK OR PA PR PW RI SC SD TN TX UT VA VI VT WA WI WV WY	
Reference1Zip	Y if state does NOT = FC (foreign code)	Min=1, max=17	0-9 Space(s) A-Z	
Reference2Address 1	Y	N/A	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40	
Reference2Address 2	N	N/A	0 - 9 A - Z , (Comma)	

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			<p>. (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)</p> <p>**COD will only store 40 characters but can accept more/less than 40</p>	
Reference2City	Y	<p>min=2 max= N/A *COD will only store 25 characte rs but can accept more/le ss than 25</p>	<p>A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)</p>	<p>Common Record has min=2, max=30 but the COD database stores up to 25 and strips off the rest.</p>
Reference2Email	N	<p>Min = 0 Max = 128</p>	<p>Any valid keyboard character including an underscore; but not the pipe symbol or space. If the field is not blank, an @ and a "." (period) to the right of the @ are required and a valid character must exist prior to the "." (period) and after the "." (period).</p>	
Reference2FirstNa me	Y	N/A	<p>Space(s) A-Z ' (Apostrophe) - (Dash) . (period)</p>	
Reference2LastNa me	Y	N/A	<p>Space(s) A-Z ' (Apostrophe) - (Dash) . (period)</p>	

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Reference2MI	N	1	A-Z	
Reference2Phone	N	Min=7 max=17	0-9	
Reference2Relation ship	Y	N/A	FATHER MOTHER GRANDFATHER GRANDMOTHER NEIGHBOR FRIEND TEACHER FATHER-IN-LAW MOTHER-IN-LAW EMPLOYER OTHER SPOUSE	
Reference2State	Y	2	A-Z 2-letter combinations that are US valid state abbreviations, and "FC" for a foreign country address. AA AE AK AL AP AR AS AZ CA CO CT DC DE FL FM GA GU HI IA ID IL IN KS KY LA MA MD ME MI MN MO MP MS MT NC ND NE NH NJ NM NV NY OH OK OR PA PR PW RI SC SD TN TX UT VA VI VT WA WI WV WY	
Reference2Zip	Y if state does NOT = FC (foreign code)	Min=1, max=17	0-9 Space(s) A-Z	
SchoolAddress1	N	N/A	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash)	

Validation Rules Document

			<p># (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)</p> <p>**COD will only store 40 characters but can accept more/less than 40</p>	
SchoolAddress2	N	N/A	<p>0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)</p> <p>**COD will only store 40 characters but can accept more/less than 40</p>	
SchoolCity	Y	<p>min=2 max= N/A *COD will only store 25 characters but can accept more/less than 25</p>	<p>A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)</p>	<p>Common Record has min=2, max=30 but the COD database stores up to 25 and strips off the rest.</p>
SchoolCode	Y	6	X00000-X99999 where X=G or E	
SchoolID	Y	21	<p>0-9 A-Z</p>	

Validation Rules Document

			<p>Format example: 001033602N15G03386001 SSN: 001010001-999999998 MPN Type Indicator: M for Sub/Unsub, N for PLUS Award Year : Trailing year of the Award Year Direct Loan School Code: X00000-X99999 where X=G or E MPN Sequence Number: 001-999</p> <p>The first 9 Digits have to match the SSN of the borrower.</p>	
SchoolName	Y	<p>Min=1, Max=N/ A</p> <p>**COD will only store 70 characters but can accept more/less than 70</p>	<p>Space(s) 0-9 A-Z ' (Apostrophe) - (Dash)</p>	
SchoolState	Y	2	<p>A-Z 2-letter combinations that are US valid state abbreviations, and "FC" for a foreign country address.</p> <p>AA AE AK AL AP AR AS AZ CA CO CT DC DE FL FM GA GU HI IA ID IL IN KS KY LA MA MD ME MI MN MO MP MS MT NC ND NE NH NJ NM NV NY OH OK OR PA PR PW RI SC SD TN TX UT VA VI VT WA WI WV WY</p>	

Validation Rules Document

SchoolZip	Y if state does NOT = FC (foreign code)	Min=1, max=17	0-9 Space(s) A-Z
SignatureDate	Y	10	YYYY-MM-DD
HasPOA	Y	1	1 if True 0 if False
FRC location	Y only if in FRC Ready Queue	Max=100	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)

Endorser Addendum

Description	Required	Length	Valid Values	Note
EndorserFirstName	Y if EndorserLastNa me not provided N if EndorserLastNa me provided	N/A	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)	*Not in Common Record. Basing off of Borrower Name rules. Applies to all Endorser fields below.
EndorserLastName	Y if EndorserFirstNa me not provided N if EndorserFirstNa me provided	N/A	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)	
EndorserMiddleName	N	1	A-Z	
EndorserSSN	Y	9	001010001-999999998	
EndorserDOB	Y	10	YYYY-MM-DD	

Validation Rules Document

EndorserAddress1	Y	N/A	<p>0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40</p>	
EndorserAddress2	N	N/A	<p>0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40</p>	
EndorserCity	Y	<p>min=2 max= N/A *COD will only store 25 characte rs but can accept more/le ss than 25</p>	<p>A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)</p>	<p>Common Record has min=2, max=30 but the COD database stores up to 25 and strips off the rest.</p>
EndorserState	Y	2	A-Z	

Validation Rules Document

			<p>2-letter combinations that are US valid state abbreviations, and "FC" for a foreign country address.</p> <p>AA AE AK AL AP AR AS AZ CA CO CT DC DE FL FM GA GU HI IA ID IL IN KS KY LA MA MD ME MI MN MO MP MS MT NC ND NE NH NJ NM NV NY OH OK OR PA PR PW RI SC SD TN TX UT VA VI VT WA WI WV WY</p>	
EndorserZip	Y if state does NOT = FC (foreign code)	Min=1, max=17	0-9 Space(s) A-Z	
EndorserPhone	N	Min=7 max=17	0-9	
EndorserDLState	N	2	<p>A-Z</p> <p>2-letter combinations that are US valid state abbreviations, and "FC" for a foreign country address.</p> <p>AA AE AK AL AP AR AS AZ CA CO CT DC DE FL FM GA GU HI IA ID IL IN KS KY LA MA MD ME MI MN MO MP MS MT NC ND NE NH NJ NM NV NY OH OK OR PA PR PW RI SC SD TN TX UT VA VI VT WA WI WV WY</p>	
EndorserDLNumber	Y only if DL State is available	Min=0, max=20	0-9 Space(s) A-Z	

Validation Rules Document

			* Asterisk - (dash) Required if Driver's License State is available	
EndorserEmail	N	Min = 0 Max = 128	Any valid keyboard character including an underscore; but not the pipe symbol or space. If the field is not blank, an @ and a "." (period) to the right of the @ are required and a valid character must exist prior to the "." (period) and after the "." (period).	
EndorserCitizenship	Y only if PARENT PLUS	1	1 if Citizen 2 if not Citizen	**Not in common record.
EndorserARN	Conditional: Only required if BorrowerCitizenship=2	Min=1, Max= 10	0-9 A-Z	**Not in common record.
EmployerName	Y only if Employer Address 1 populated	N/A	A-Z ' (Apostrophe) - (Dash) Space(s) **COD will only store 30 characters but can accept more/less than 30	
EmployerAddress1	N	N/A	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40	
EmployerAddress2	N	N/A	0 - 9 A - Z , (Comma) . (Period)	

Validation Rules Document

			' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40	
EmployerCity	Y only if Employer Address populated	min=2 max= N/A *COD will only store 25 characte rs but can accept more/le ss than 25	A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)	Common Record has min=2, max=30 but the COD database stores up to 25 and strips off the rest.
EmployerState	Y	2	A-Z 2-letter combinations that are US valid state abbreviations, and "FC" for a foreign country address. AA AE AK AL AP AR AS AZ CA CO CT DC DE FL FM GA GU HI IA ID IL IN KS KY LA MA MD ME MI MN MO MP MS MT NC ND NE NH NJ NM NV NY OH OK OR PA PR PW RI SC SD TN TX UT VA VI VT WA WI WV WY	
EmployerZip	Y if state does		0-9	

Validation Rules Document

	NOT = FC (foreign code)	Min=1, max=17	Space(s) A-Z	
EmployerPhone	N	Min=7 max=17	0-9	
Reference1FirstNa me	Y	N/A	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)	
Reference1MI	N	1	A-Z	
Reference1LastNa me	Y	N/A	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)	
Reference1Address 1	Y	N/A	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40	
Reference1Address 2	N	N/A	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40	

Validation Rules Document

Reference1City	Y	min=2 max= N/A *COD will only store 25 characters but can accept more/less than 25	A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)	Common Record has min=2, max=30 but the COD database stores up to 25 and strips off the rest.
Reference1State	Y	2	A-Z 2-letter combinations that are US valid state abbreviations, and "FC" for a foreign country address. AA AE AK AL AP AR AS AZ CA CO CT DC DE FL FM GA GU HI IA ID IL IN KS KY LA MA MD ME MI MN MO MP MS MT NC ND NE NH NJ NM NV NY OH OK OR PA PR PW RI SC SD TN TX UT VA VI VT WA WI WV WY	
Reference1Zip	Y if state does NOT = FC (foreign code)	Min=1, max=17	0-9 Space(s) A-Z	
Reference1Email	N	Min = 0 Max = 128	Any valid keyboard character including an underscore; but not the pipe symbol or space. If the field is not blank, an @ and a "." (period) to the right of the @ are required and a valid character must exist prior to the "." (period) and after the "." (period).	

Validation Rules Document

Reference1Phone	N	Min=7 max=17	0-9	
Reference1Relation ship	N	N/A	FATHER MOTHER GRANDFATHER GRANDMOTHER NEIGHBOR FRIEND TEACHER FATHER-IN-LAW MOTHER-IN-LAW EMPLOYER OTHER SPOUSE	
Reference2FirstNa me	Y	N/A	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)	
Reference2LastNa me	N	N/A	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)	
Reference2MI	Y	1	A-Z	
Reference2Address 1	Y	N/A	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40	
Reference2Address 2	N	N/A	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe)	

Validation Rules Document

			<p>- (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40</p>	
Reference2City	Y if country=U.S N if foreign country	min=2 max= N/A *COD will only store 25 characte rs but can accept more/le ss than 25	A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)	Common Record has min=2, max=30 but the COD database stores up to 25 and strips off the rest.
Reference2State	Y	2	A-Z 2-letter combinations that are US valid state abbreviations, and "FC" for a foreign country address. AA AE AK AL AP AR AS AZ CA CO CT DC DE FL FM GA GU HI IA ID IL IN KS KY LA MA MD ME MI MN MO MP MS MT NC ND NE NH NJ NM NV NY OH OK OR PA PR PW RI SC SD TN TX UT VA VI VT WA WI WV WY	
Reference2Zip	Y if state does NOT = FC	Min=1,	0-9 Space(s)	

Validation Rules Document

	(foreign code)	max=17	A-Z	
Reference2Phone	N	Min=7 max=17	0-9	
Reference2Email	N	Min = 0 Max = 128	Any valid keyboard character including an underscore; but not the pipe symbol or space. If the field is not blank, an @ and a "." (period) to the right of the @ are required and a valid character must exist prior to the "." (period) and after the "." (period).	
Reference2Relationship	N	N/A	FATHER MOTHER GRANDFATHER GRANDMOTHER NEIGHBOR FRIEND TEACHER FATHER-IN-LAW MOTHER-IN-LAW EMPLOYER OTHER SPOUSE	
BorrowerSSN	Y	9	001010001-999999998	
BorrowerDOB	Y	10	YYYY-MM-DD	
BorrowerFirstName	Y if BorrowerLastName not provided N if BorrowerLastName provided	**COD will only store 30 characters but can accept more/less than 30	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)	
BorrowerLastName	Y if BorrowerFirstName not provided N if BorrowerFirstName provided	**COD will only store 35 characters but can accept more/less than	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)	

Validation Rules Document

		35		
BorrowerMiddleName	N	1	A-Z	
BorrowerAddress1	Y	N/A	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40	
BorrowerAddress2	N	N/A	0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40	
BorrowerCity	Y	min=2 max= N/A *COD will only store 25 characters but can accept more/less than	A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)	Common Record has min=2, max=30 but the COD database stores up to 25 and strips off the rest.

Validation Rules Document

		25		
BorrowerState	Y	2	<p>A-Z 2-letter combinations that are US valid state abbreviations, and "FC" for a foreign country address.</p> <p>AA AE AK AL AP AR AS AZ CA CO CT DC DE FL FM GA GU HI IA ID IL IN KS KY LA MA MD ME MI MN MO MP MS MT NC ND NE NH NJ NM NV NY OH OK OR PA PR PW RI SC SD TN TX UT VA VI VT WA WI WV WY</p>	
BorrowerZip	Y if state does NOT = FC (foreign code)	Min=1, max=17	<p>0-9 Space(s) A-Z</p>	

Validation Rules Document

LoanIdentificationNumber	Y	21	0-9 A-Z Format example: 001033602P12G03386999 SSN: 001010001-999999998 EA Type Indicator: P Award Year : Trailing year of the Award Year Direct Loan School Code: X00000-X99999 where X=G or E EA Sequence Number: 001-999 EA for Parent PLUS Loan: The first 9 digits of LoanIdentificationNumber have to match DependentSSN EA for Graduate PLUS Loan: The first 9 digits of LoanIdentificationNumber have to match BorrowerSSN	
LoanAmount	Y	5	0-9	Confirmed with FSA: truncate cents
BorrowerPhone	N	Min=7 max=17	0-9	
SchoolName	Y	Min=1, Max=N/ A **COD will only store 70 characters but can accept more/less than 70	Space(s) 0-9 A-Z ' (Apostrophe) - (Dash)	
SchoolAddress1	N	N/A	0 - 9	

Validation Rules Document

			<p>A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40</p>	
SchoolAddress2	N	N/A	<p>0 - 9 A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s) **COD will only store 40 characters but can accept more/less than 40</p>	
SchoolCity	Y	<p>min=2 max= N/A *COD will only store 25 characte rs but can accept more/le ss than 25</p>	<p>A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)</p>	<p>Common Record has min=2, max=30 but the COD database stores up to 25 and strips off the rest.</p>
SchoolState	Y	2	<p>A-Z 2-letter combinations that are US valid state abbreviations, and "FC" for a</p>	

Validation Rules Document

			foreign country address. AA AE AK AL AP AR AS AZ CA CO CT DC DE FL FM GA GU HI IA ID IL IN KS KY LA MA MD ME MI MN MO MP MS MT NC ND NE NH NJ NM NV NY OH OK OR PA PR PW RI SC SD TN TX UT VA VI VT WA WI WV WY	
SchoolZip	Y if state does NOT = FC (foreign code)	Min=1, max=17	0-9 Space(s) A-Z	
DependentFirstName	Y for PARENT PLUS only	N/A	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)	
DependentLastName	Y for PARENT PLUS only	N/A	Space(s) A-Z ' (Apostrophe) - (Dash) . (period)	
DependentMiddleName	N	1	A-Z	
DependentSSN	Y for PARENT PLUS only	9	001010001-999999998	
HasSignature	Y	1	1 if there's a signature 0 if no signature	
SignatureDate	Y	10	YYYY-MM-DD	
HasPOA	Y	1	1 if True 0 if False	
FRC location	Y only if in FRC Ready Queue	Max=100	0 - 9 A - Z , (Comma) . (Period)	

Validation Rules Document

			' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)	
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Manifest

Description	Required	Length	Valid Values	Note
ReportDate	Y	Min=10, Max=10	YYYY-MM-DD	**Manifest is not part of Common Record.
ReportTime	Y	Min=8, Max=8	HH:MM:SS 0-9	
DocumentId	Y	Min=1, Max=50	0-9 A-Z	
NoteCount	Y	Min=1, Max =3	0-9 Maximum value is 100	
SchoolCode	Y	Min=6, Max=6	X00000-X99999 where X=G or E	
SchoolName	Y	Min=1, Max=N/A **COD will only store 70 characters but can accept more/less than 70	Space(s) 0-9 A-Z ' (Apostrophe) - (Dash)	
HasSignature	Y	1	1 if there's a signature 0 if no signature	
FaaName	Y	N/A	Space(s) A-Z ' (Apostrophe) - (Dash) **COD will only store 30 characters but can accept more/less than 30	
FRC location	Y only if in FRC	Max=	0 - 9	

Validation Rules Document

	Ready Queue	100	A - Z , (Comma) . (Period) ' (Apostrophe) - (dash) # (Number) @ (at) % (Percent care of) & (Ampersand) / (Slash) Space(s)	
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Attachment Validation

The attachments from Ancillary Servicer must be in PDF format.

Issues and Additional Considerations

Raised By	Issue	Date Needed	Resolution/Answer	Date Completed	Resolved By

Reviewers

Name	Date	Team

United States Department of Education
Federal Student Aid

Ancillary Services – COD Data Conversion
(FRC Location File)

Interface Control Document
Version 2

Document Reference Name: AS-COD_FRC_ICD

September 28, 2017

Approval Control Sheet

This Interface Control Document was reviewed and approved by the following individuals:

Anthony Barnes, FSA COD Manager

Date

Kathy Wicks, FSA Ancillary Services Manager

Date

Document Change Control

Date	Author	Version	Change Reference
8/1/2017	Dean Clark, Bea Rodriguez	0.0	Creating document to describe the FRC file that will be sent with the images and index files related to CR-3149/111043
8/21/2017	Daniel Paylor	0.0	Changed FSA COD Manager to Anthony Barnes. Added FRC File Structure. Added that the index file shall be pipe delimited.
08/28/17	Daniel Paylor	0.0	Indicated that the FRC file format will include a closing pipe symbol following the final item in the file, which is Pallet Number.
09/28/2019	Bea Rodriguez	2.0	Indicated that the FRC location will be matched to the image via the Image Tracking Record (Index ID).

Interface File Specification

Interface Name:	FRC File Transmission for the Promissory Note, MPN, Manifest, & Endorser Addendum Record Conversion Data
Interface Type:	Uni-directional
Interface Short Description:	This document is for the specific FRC file that will be sent with the images and index file sent for the data conversion for the transfer of scanned images and their corresponding metadata from Ancillary Services to COD for Promissory Note, MPN, Manifest, and Endorser Addendum paper documents.
Source Application:	Ancillary Services
Destination Application:	NAS Physical Drive
Technical Requirement References:	N/A
Related Interface Internal Design:	N/A
Other Related Interfaces:	N/A
Interface Usage Frequency:	One time transfer (FRC file, metadata, and images)
Interface Usage Volume:	N/A

Interface Overview

The data migration requiring the move of FRC (Federal Record Center) files with the PDF files of scanned Promissory Note, MPN, Manifest, and Endorser Addendum documents will involve a QNAP TS-453 Pro NAS device to be used for these transfers. The device will provide a minimum of 15TB of storage to handle the data volume for the conversion.

Source System Hardware/Software Components (HP to Populate)

#	Type	Vendor	Product Name	Version
1	Production Platform	N/A	N/A	N/A
2	Operating System	N/A	N/A	N/A
3	Transmission Protocol	N/A	N/A	N/A

Destination System Hardware/Software Components

#	Type	Vendor	Product Name	Version
1	Production Platform	N/A	N/A	N/A
2	Operating System	N/A	N/A	N/A
3	Transmission Protocol	N/A	N/A	N/A

Source System Additional Information (HP to Populate)

#	Type	Value
1	Production System Location	Plano, TX
2	Contracting Organization	HPES/Herndon, VA
3	Developer Location	Herndon, VA

Destination System Additional Information

#	Type	Value
1	Production System Location	Columbus, GA
2	Contracting Organization	Accenture/TSYS
3	Developer Location	Washington, DC

Source System Responsibilities

#	Type	Responsibility
1	System Configuration	Ancillary Services (AS) is expected to create FRC Location records according to the format specified in this document.
2	System Configuration	AS is expected to perform the transfer of FRC Location file(s) to COD.

Destination System Responsibilities

#	Type	Responsibility
1	System Configuration	COD is expected to receive and process the FRC files created according to the format specified in this document.

Interface Assumptions

#	Assumption
1	The transfer of FRC Location ID files from HP shall be performed via a QNAP TS-453 Pro NAS storage device which will be properly secured and transported between sites.
2	Transportation of and FRC Location ID files between HP and TSYS shall be handled by FedEx using their White Glove Secure Transportation service. This will be coordinated by Accenture and include signatures at shipment & receipt, tracking numbers, and inventory manifests. The service includes point to point, single truck delivery with real time tracking.
3	The format of the FRC Location ID file shall be pipe () delimited flat file text for the metadata associated with the documents and FRC locations.
4	The FRC location of an image shall be determined by matching the Image Tracking Record (Index ID) between the index file and the FRC Location ID file.

Interface Dependencies

#	Dependency
1	Dates shall align with the file transmission testing, device shipment and transfer timelines.
2	HP shall provide the mapping for the FRC Document Type.

Record Specification (Ancillary Services to COD)

Order	Max Length	Type	Required Doc Types	Description	Valid Values
1	8	N	VALID FOR DOC TYPES: ALL TYPES	Image Tracking Record (Index ID)	0-99999999
2	9	N CHA R(9)	VALID FOR DOC TYPES: ADDM, ADPP, ADPS, CRPT, DEPL, GNPE, GNPL, PNPE, PNPL, PNST, POAT SGPE, SGPL, SNPE, SNPL, SNST	Borrower's SSN Student for Sub/Unsub or Grad PLUS Parent for PLUS	000000000-999999999 Preceding zeros included
3	11	N	VALID FOR DOC TYPES: ALL TYPES	Batch Number	0-9 i.e.: 12227001475 (YY, Julian date, sequence number, doc type)
4	10	N	VALID FOR DOC TYPES: ALL TYPES	Accession Number	0-9999999999
5	3	N	VALID FOR DOC TYPES: ALL TYPES	Box Number	0-999
6	3	N	VALID FOR DOC TYPES: ALL TYPES	Pallet Number	0-999

Example File Layout

Below are sample records for the FRC Location ID file and the folder structure that will be placed on the device (note that the file shall be pipe delimited with no pipe symbol before the first item but with one following the last item):

```
9999|111111111|99001001900|441150098|1|3|
999999|111111111|99001001960|441150098|2|3|
99|222222222|99001001900|441150098|1|3|
```

File Structure:

frc_manifest.txt

References

1. Ancillary Services Data Migration Approach Document
2. Ancillary Services Data Migration Contacts Document
3. Ancillary Services Chain of Custody Log Document
4. Ancillary Services Data Migration Handling Instructions Document
5. Ancillary Services Data Migration Shipping Manifest Document

Issues and Additional Considerations

Raised By	Issue	Date Needed	Resolution/Answer	Date Completed	Resolved By

Reviewers

Name	Date	Team

FSA Integration Partner

United States Department of Education

Office of Federal Student Aid

COD – FMS
Campus Based Financial Interface
Interface Control Document

Version 11.0

Document Reference:

December 10, 2021

Document Change Control

Date	Author	Version	Change Reference
10/5/2017	Nimmy Mathew	1.0	Initial Version
10/18/2017	Nimmy Mathew	2.0	2 nd Version after ICD Meeting 10/17/2017
11/13/2017	Emma Sales and Nimmy Mathew	3.0	Removed signature page per FSA request. Added Total Record and Total Amount fields to Header/Trailer records. Updated Payment Source field to be Not Required within the File Transaction Record.
1/16/2018	Nimmy Mathew	4.0	Added TG Mailbox Information Added information regarding email sent to FSA
3/12/2018	Nimmy Mathew	5.0	Updated TG Mailbox/Message Class Information Added FMS email address to list of email addresses sent with file contents Updated file extension to be .obl only
3/19/2018	Nimmy Mathew	6.0	Updated the Total Records and Total Amount fields in the Header & Trailer Records to be required Clarified that the file will only contain the DUNS No. of Institutions
3/22/2018	Emma Sales	7.0	Added language from ESB on page 6.
4/2/2019	Amy Lebrecht	8.0	Updates for the 2020-2021 Application Year
10/26/2021	Amy Lebrecht Meet Patel	9.0	Added UEI to file transaction records
12/6/2021	Amy Lebrecht Meet Patel	10.0	Added required or optional column
12/10/2021	Amy Lebrecht Meet Patel	11.0	Updated interface assumptions with all emails used in PROD

Interface Control Specification

Interface Name:	COD-FMS Campus Based Financial Interface										
Interface Type:	Uni-directional (outgoing)										
Interface Short Description:	This document defines the processes utilized to send the COD-initiated financial transactions from COD to FMS via SAIG.										
Source Application:	<p>COD is the source application of the flat file.</p> <p>File naming convention: ‘YYMMDD##.xxx’ YY – 2 Digit Year MM – 2 Digit Month DD – 2 Digit Date ## – 2 Digit sequential number starting with 01 for each day xxx – obl</p>										
Destination Application:	<p>FMS is the destination application of the flat file.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Region</th> <th style="text-align: center;">ESB TG Mailbox</th> <th style="text-align: center;">Message Class</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Test</td> <td style="text-align: center;">TGF4949</td> <td style="text-align: center;">TCODCBIN</td> </tr> <tr> <td style="text-align: center;">Production</td> <td style="text-align: center;">TGC0358</td> <td style="text-align: center;">PCODCBIN</td> </tr> </tbody> </table> <p>File naming convention: <u>Test Filename:</u> TCODCBIN.D<YYMMDD>.<xxx> E.g. TCODCBIN.D190309.357</p> <p><u>Production Filename:</u> PCODCBIN.D<YYMMDD>.<xxx> E.g. PCODCBIN.D190309.357</p>		Region	ESB TG Mailbox	Message Class	Test	TGF4949	TCODCBIN	Production	TGC0358	PCODCBIN
Region	ESB TG Mailbox	Message Class									
Test	TGF4949	TCODCBIN									
Production	TGC0358	PCODCBIN									
Functional Requirement References:	Group 4 Admin Manage Awarding General Design Document (GDD) and Requirements Definition Document (RDD) – CR 116241										
Related Unit Test Document:	N/A										
Other Related Interfaces:	N/A										
Interface Usage Frequency:	6:30am Monday—Friday, excluding holidays										
Interface Usage Volume:	<p>Average Number of Daily Transactions from COD to FMS (Peak): 4,000 Average Number of Daily Transactions from COD to FMS (Non-Peak): 15</p> <p>A flat file will only be sent to FMS if at least one transaction was processed that day.</p>										

Interface Overview- Campus Based COD – FMS

COD (1) sends Financial Transactions to FMS's (4) TG Mailbox via SAIG (2) and ESB (3).

Requesting (COD) System Hardware/Software Components

#	Type	Vendor	Product Name	Version
1	Production Platform	IBM	Midrange Server	x3850 X6
2	Operating System	Red Hat	Red Hat Enterprise Linux Server	6.9

ESB System Hardware/Software Components

#	Type	Vendor	Product Name	Version
1	Production Platform	HP	HP-UX	11i
2	Operating System	Red Hat	Red Hat Enterprise Linux Server	5

COD Requesting (or Source) System Additional Information

#	Type	
1	Production System Location	Columbus, GA
2	Contracting Organization	Accenture/AWS
3	Developer Location	Washington, DC

FMS Destination System Additional Information

#	Type	
1	Production System Location	Plano, TX
2	Contracting Organization	DELL Systems
3	Developer Location	Washington, DC

ESB System Additional Information

#	Type	
1	Production System Location	Plano, TX
2	Contracting Organization	ESB/PPS and DELL Systems
3	Developer Location	Washington, DC

Requesting (or Source) System Responsibilities

COD Functional Specifications (source system)

#	Type	Responsibility
1	System Configuration	COD is expected to create Fund/Accounting records with the format specified in this document.
2	System Configuration	The "SAIG Header record" will be the first record in the flat file The "File Header record" will be the second record in the flat file The "Trailer Record" will be the third-to-last record in the flat file The "File Z Record" will be the second-to-last record in the flat file The "SAIG Trailer Record" will be the last record in the flat file The "File Transaction" records will be between the header and trailer records in the flat file.

ESB Data Routing Responsibilities

#	Description
1	ESB will retrieve the file from the FMS mailbox and route to COD using IBM Managed File Transfer based on the message class in the SAIG header. The destination of the files is specified by COD.

Destination System Responsibilities

FMS Functional Specifications (target system)

#	Type	Responsibility
1	System Configuration	FMS is expected to receive Fund/Accounting records according to the format specified in this document.
2	System Configuration	FMS is expected to receive each flat file with all transactions.

Campus Based Flat File

The COD system will begin sending Campus Based funding related transactions to FMS for the Federal Supplemental Educational Opportunity Grant (FSEOG), Federal Work-Study (FWS) and Federal Perkins Loan programs.

COD to FMS Flat File Specification

SAIG Header Record

SAIG Transmission Batch Header Record (example: O*N95TGXXXXX where XXXXX is an alphanumeric mailbox address) found in TD Client 3.2 - **Host Communications Guide**

Start	End	Length	Type	Description	Valid Value	Processing/ Edit Note	Required or Optional
1	5	5	A/N	SAIG Batch Header Identification Number	Constant "O*N05"	<i>Missing Transmission Trailer – Reject Transmission; No detail records – Reject Transmission</i>	Required
6	12	7	A/N	Header Destination Number	'TGXXXXX' where 'XXXXX' is a five digit number assigned to Destination		Required
13	19	7	A	Unused	Constant spaces		Required
20	24	5	A/N	Header Class Label	Constant: ",CLS = "		Required
25	32	8	A/N	Header Message Class	Production PCODCBIN Test TCODCBIN		Required
33	36	4	A/N	Header XXX Label	Constant: ",XXX"		Required
37	41	5	A/N	Text used to identify the next field is a Batch ID	Constant: ",BAT = "		Required
42	58	17	A/N	Header Batch label	Batch ID: "0000000000000000"		Required
59	64	6	A/N	Header Batch ID	Constant: ",NCT = "		Required

File Header & Trailer Records

Interface Control Document
COD-FMS Interface

Start	End	Length	Type	Description	Valid Value	Processing/ Edit Note	Required or Optional
1	1	1	A	Record Type	Constant: 'H' - For Header record. Constant: 'T' - For Trailer record	Required Field	Required
2	4	3	A	Batch Number	'XXX', a three digit number assigned to the discreet batch number	Required Field; Batch Number, Run Date and the System ID fields will be used by G5 to verify whether a file has already been processed	Required
5	14	10	A	System ID	Values: - '1G': eCampus-Based Teacher Cancellation (decommissioned) - '3G': eCampus-Based	Required Field	Required
15	22	8	A	Run Date	The date where the batch is created; Format YYYYMMDD	Required Field	Required
23	28	6	A	Run Time	System time when the batch is created; Format HHMISS	Required Field	Required
29	34	6	A/N	Total Records	Header: Blank Trailer: Total Records excluding Header & Trailer	Required Field	Required
35	51	17, 2	A/N	Total Amount	Header: Blank Trailer: Total amount of transactions in the input file; this field uses the absolute values of the individual transaction amounts.	Required Field	Required

File Transaction Records

Start	End	Length	Type	Data Element	Description	Required or Optional
1	2	2	A	Transaction Type	'OB' for Obligation	Required
3	10	8	A	Transaction Date	Transaction Created Date; Format: YYYYMMDD	Required
11	11	1	A	PO Indicator	PO Code; 'P'	Required
12	14	3	N	CFDA Number	Based on program; '033' for FWS, '007'	Required

Interface Control Document
COD-FMS Interface

					for SEOG, '038' for Perkins	
15	18	4	A	CFDA Subprogram ID	Based on Transaction Type; 'Y' for Teacher Cancellations, 'A' for all others	Required
19	22	4	N	Subprogram Fiscal Year	Fiscal Year of Subprogram; Format: YYYY	Required
23	26	4	N	Award ID	Last 4 digits of the school's serial number	Required
27	30	4	A	Fund Fiscal Year	Leading Year of the Project Code; Format: YYYY	Required
31	35	5	A	Object Class	'4101L'	Required
36	43	8	A	Organization Code	'EN'	Required
44	46	3	A	Limitation Code	Based on Program; 'H40' for FWS, 'H30' for SEOG	Required
47	49	3	A	Activity Code	Based on Transaction Type; '475' for Work Colleges, '017' for Reallocation, and '000' for all other transaction types	Required
50	52	3	A	CFDA Code	Based on Program; '033' for FWS, '007' for SEOG, '038' for Perkins	Required
53	53	1	A	Reverse Code	Based on Balance Type; '1' for Normal Transaction, '2' for Reversed Transaction	Required
54	67	14	N	Amount	(+ or - Adjustment) Value; Format: Right two positions are cents	Required
68	78	11	A	Grantee DUNS No.	Unique DUNS for the Grantee	Not Required
79	79	1	A	Grantee DUNS Type Code	'1' for Organization, '2' for Individual	Not Required
80	87	8	N	Effective Date	Transaction Created Date; Format: YYYYMMDD	Required
88	98	11	A	Payee DUNS Number	Unique DUNS for the payee	Not Required
99	99	1	A	Payee DUNS Type Code	'1' for Organization, '2' for Individual	Not Required

Interface Control Document
COD-FMS Interface

100	101	2	A	Award Type	'CB' for eCampus-Based	Required
102	109	8	N	Project Start Date	Project Start Date set by OMR; Format: YYYYMMDD	Required
110	117	8	N	Project End Date	Project End Date set by OMR; Format: YYYYMMDD	Required
118	121	4	A	Budget Fiscal Year	Trailing Year of the Project Code; Format: YYYY	Required
122	125	4	A	Cohort Year	'0000'	Required
126	126	1	A	Sector	'N'	Required
127	128	2	N	Payment Source		Not Required
129	140	12	A	Grantee UEI	Unique entity identifier for the Grantee	Required
141	141	1	A	Grantee UEI Type Code	'1' for Organization, '2' for Individual	Required
142	153	12	A	Payee UEI	Unique UEI for the payee	Not Required
154	154	1	A	Payee UEI Type Code	'1' for Organization, '2' for Individual	Not Required
155	168	14	A	Filler		Not Required

File Z Record

Start	End	Length	Type	Description	Valid Value	Processing/ Edit Note	Required or Optional
1	1	1	A	Record Type	Constant: 'Z' – For Transmission Record	Required Field	Required
2	11	10	A	Interface Type	Constant: 'TRANSTRAIL'	Required Field	Required
12	19	8	A	Run Date	Date field; Format YYYYMMDD	Required Field; Same date in Header/Trailer record	Required
20	25	6	A	Run Time	System time in HHMISS format	Required Field; Same time in Header/Trailer record	Required
26	31	6	N	Total Records	Sum of all records in the file including the Header, Trailer & Transmission	Required Field	Required

Interface Control Document
COD-FMS Interface

Start	End	Length	Type	Description	Valid Value	Processing/ Edit Note	Required or Optional
32	48	17, 2	N	Total Amount	The summation of the absolute value of the Total Amount of all batches in the transmission (This should also equal the sum of the Total Amount fields for all Trailers in the file); Format: Right two positions are cents	Required Field	Required

SAIG Trailer Record

SAIG Transmission Batch Trailer Record (example: O*N95TGXXXXX where XXXXX is an alphanumeric mailbox address) found in TD Client 3.2 - **Host Communications Guide**

Start	End	Length	Type	Description	Valid Value	Processing/ Edit Note	Required or Optional
1	5	5	A/N	SAIG Batch Header Identification Number	Constant "O*N95"	<i>Missing Transmission Trailer – Reject Transmission; No detail records – Reject Transmission</i>	Required
6	12	7	A/N	Trailer Destination Number	'TGXXXXX' where 'XXXXX' is a five digit number assigned to Destination		Required
13	19	7	A	Unused	Constant spaces		Required
20	24	5	A/N	Header Class Label	Constant: ",CLS = "		Required
25	32	8	A/N	Trailer Message Class	Production PCODCBIN Test TCODCBIN		Required
33	36	4	A/N	Trailer XXX Label	Constant: ",XXX"		Required
37	41	5	A/N	Text used to identify the next field is a Batch ID	Constant: ",BAT = "		Required
42	58	17	A/N	Trailer Batch label	Batch ID: "0000000000000000"		Required
59	64	6	A/N	Trailer Batch ID	Constant: ",NCT = "		Required

Interface Control Document
COD-FMS Interface

Start	End	Length	Type	Description	Valid Value	Processing/ Edit Note	Required or Optional
65	70	6	N	Trailer NCNT Label	“000000”		Required
		Xx	A	Unused	Constant spaces		Required
		≥ 80		Total Record Length			Required

Business Rules

Field format	Business Rule
Alphanumeric	All characters will be left justified and padded with spaces. Unless otherwise noted in the file specification section, blank/null optional fields will be padded with spaces.
Numeric/timestamp/date	All characters will be right padded with '0'. If it is blank/null, the length for the location of the field will be padded with '0'.

Interface Assumptions

#	Assumption
1	The ESB Bus will ensure the delivery of the file to FMS.
2	The ESB Bus will ensure that each file is delivered only once.
3	The ESB Bus will ensure that the SAIG headers are stripped from the .obl file before delivery to FMS.
4	COD will send a system generated email to FMSOperationsGroup@ed.gov , FMSProcessingHelpDeskGroup@ed.gov , FSACFOFMSG_DEVOPS@ed.gov , CBAcct@ed.gov , and COD_ServiceDesk@accenturefederal.com with the file contents for any file delivery to FMS (Please note that for this file, the data will always contain the UEI for the institution).

Interface Dependencies

#	Dependency
	No interface dependencies have been identified for this interface. However, FMS and ESB are dependent on the network and Data Center managed by the VDC, and COD is dependent on the network managed by the TSYS.

Issues and Additional Considerations

There have been no issues or additional considerations identified for this interface.

Reviewers

Name	Date	Team



FSA Integration Partner

United States Department of Education

Office of Federal Student Aid

**COD to FMS
Financial Interface**

Interface Control Document

Document Reference Name: COD to FMS File-Based ICD v11.0.doc

June 16, 2023

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FSA Integration Partner

United States Department of Education

Office of Federal Student Aid

**COD to FMS
Financial Interface**

Interface Control Document

Document Reference Name: COD to FMS ICD (LMFD)_R18.0

January 31st, 2019

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7 Requesting (COD) System Additional Information

#	Type	Location
1	Production System Location	Columbus, GA
2	Contracting Organization	Accenture/TSYS
3	Developer Location	Washington, DC

8 Responding (FMS) System Additional Information

#	Type	
1	Production System Location	Plano, TX
2	Contracting Organization	DELL Systems
3	Developer Location	Washington, DC

9 ESB System Additional Information

#	Type	
1	Production System Location	Plano, TX
2	Contracting Organization	ESB/PPS and DELL Systems
3	Developer Location	Washington, DC

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COD to DCC Marketing and Communications Interface Control Document

Version 2.0 • 9/4/2019

Document Version Control

VERSION	DATE	AUTHOR	DESCRIPTION
1.0	7/19/2019	Lindsay Goree	Initial Draft
2.0	9/4/2019	Connor McKee	Updates based on comments from FSA

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Section 1. Interface Control Specification

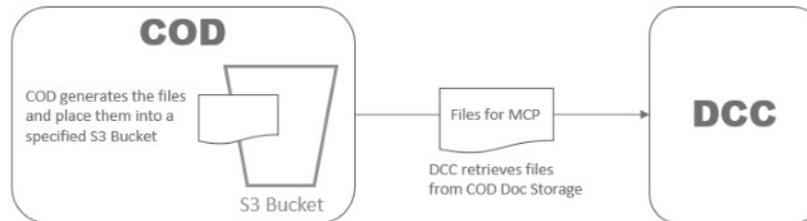
Interface Name *	COD to DCC Marketing Communication Platform Files
Interface Type *	Uni-directional
Interface Short Description *	<p>This interface is utilized to send data from COD to DCC for use by the Marketing and Communications Platform (MCP).</p> <p>COD will create four separate files daily with FAFSA and Customer data for the send of FAFSA transactional emails: FAFSA Transactional data file, Customer File, FAFSA Transaction Person file and an aggregated GODS file. In addition, an Ad Hoc file will be created on demand with a specified file structure for the DCC for Ad Hoc email campaigns.</p>
Requesting (Source) Application *	COD is the source of this data.
Responding (Receiving or Destination) Application *	DCC will receive the data.
Technical Requirement References *	<p>Data will be put into an Amazon Simple Storage Service (S3) bucket location within the COD system boundary for retrieval by DCC. COD will authorize DCC to retrieve the data from COD's S3 bucket.</p> <p>Location:</p> <p>Test Bucket: tivod-test-us-gov-west-1 Object path: tst101/interface_storage/dcc</p> <p>Production Bucket: tivod-prod-us-gov-west-1 Object path: prd101/interface_storage/dcc</p> <p>Files: COD_FAFSATransaction_SPB_YYYYMMDD_HHMMSS_<RecordCount>.csv COD_Recipient_SPB_YYYYMMDD_HHMMSS_<RecordCount>.csv COD_RecipientRole_SPB_YYYYMMDD_HHMMSS_<RecordCount>.csv COD_GDOS_SPB_YYYYMMDD_HHMMSS_<RecordCount>.csv COD_ADHOC_SPB_[INSERT CAMPAIGN ID HERE]_YYYYMMDD_HHMMSS_<RecordCount>.csv</p>

<p>Interface Usage Frequency *</p>	<p>This interface is a batch interface and allows for multiple files to be transferred per day. COD will create the GDOS file for DCC daily, 7 days per week. These files will be sent to DCC around 4am-6am ET after COD processes GDOS files.</p> <p>The FASFA Transaction, FAFSA Transaction Person and Customer files will be created on each business day (exclude federal holidays), Monday through Friday. These files will be sent to DCC around 8pm-10pm ET after COD processes DDE files. Ad hoc files will be created on demand. Files will not be generated on Federal Holidays. This schedule is subject to change according to scheduled outages from COD, DCC or CPS.</p>
<p>Interface Usage Volume *</p>	<p>The daily FAFSA transaction data file is anticipated to have an average daily record volume of 70,000 records and peak record count of 350,000.</p> <p>The Customer Input file is anticipated to have an average daily record volume of roughly 100,000 records with a peak record count of 500,000.</p> <p>The Person Transaction file is anticipated to have an average daily record volume of roughly 100,000 records with a peak record count of 500,000.</p> <p>The daily GDOS file is anticipated to have an average daily record volume of roughly 70,000 records with a peak record count of 200,000.</p> <p>The Ad hoc volumes will vary based on requests from FSA.</p>

***Required field**

Section 2. Interface Overview

2.1. Flow Diagram



2.2. Flow Diagram Description

1. The COD system will initiate a process to create the files for DCC.
2. The COD system will place the files into a COD controlled S3 bucket.
3. The DCC will retrieve the files from the S3 bucket.

Note: The bucket, folder, and file path will follow what is outlined in the Technical Requirement Reference section.

2.3. Usage Scenarios

COD schedules the batch jobs to create the DCC files. The batch job places the files in the specified S3 bucket and path. The files are available to be accessed by DCC.

Section 3. System Information

3.1. Requesting (or Source) System Information

COD

#	Type	
1	Production System Location	AWS GovCloud West
2	Contracting Organization	Accenture Federal Services, LLC
3	Developer Location	Washington, DC

3.2. Responding (Receiving or Destination) System Information

DCC

#	Type	
1	Production System Location	AWS GovCloud West
2	Contracting Organization	Accenture Federal Services, LLC
3	Developer Location	Washington, DC

Section 4. Interfacing System Responsibilities

4.1. Requesting (or Source) System Responsibilities

COD Functional Specifications

#	Description
1	COD will extract FAFSA and Ad Hoc data from the COD Database.
2	The extracted data will be saved to a .csv file.
3	The data extracted will be formatted as specified in the File Specification.
4	COD will transmit the data files to a specified S3 bucket within COD.

4.2. Responding (Receiving or Destination) System Responsibilities

DCC Functional Specifications

#	Description
1	DCC will have read access to the S3 bucket location for files.
2	DCC will monitor the S3 bucket for new files
3	DCC will process the files upon retrieval from the S3 bucket
6	

Section 5. Business Rules and Logic

Not Applicable.

Section 6. File Specification

6.1. GDOS File:

Position	Data Element	Description	Field Format	Valid Values
1	AWARD_YR	Award year submitted for the transaction in the format. YYYY	N	
2	RECORD_TYPE	Record type that indicates the type of email the recipient should receive	A/N	ENG_SIG_HOLD ESP_SIG_HOLD ENG_STU_SAVE_WEB_7 ESP_STU_SAVE_WEB_7 ENG_STU_SAVE_WEB_14 ESP_STU_SAVE_WEB_14 ENG_PAR_SAVE_WEB_7 ESP_PAR_SAVE_WEB_7 ENG_PAR_SAVE_WEB_14 ESP_PAR_SAVE_WEB_14 ENG_STU_SAVE_WEB_CORR ESP_STU_SAVE_WEB_CORR ENG_PAR_SAVE_WEB_CORR ESP_PAR_SAVE_WEB_CORR
3	FIRST_NAME	First name of recipient	A/N	
4	EMAIL	Email address the email should be sent to	A/N	
5	VARIABLE_TEXT_1	Additional information for certain email types	A/N	
6	VARIABLE_TEXT_2	Additional information for certain email types	A/N	

6.2. Customer File:

Position	Data Element	Description	Field Format	Valid Values
1	EMAIL_ID	Unique Identifier for each Recipient. If the Recipient has a PMDM Person ID the value will be the MDM_PERSON_ID. If there is no PMDM ID, then the value will be unique based on the based on the Recipient's email address	A/N	
2	MDM_PERSON_ID	PMDM unique customer identifier	N	
3	MDM_FAN	The unique identifier in the PAS System	A/N	^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}\$ EX: AAAA00D0-00A0-11AA-0A11-00A0000A00A0

Position	Data Element	Description	Field Format	Valid Values
4	MDM_FIRST_NAME	First name of customer stored in PMDM	A/N	
5	MDM_LAST_NAME	Last name of customer stored in PMDM	A/N	YYYY-MM-DD
6	MDM_DOB	Date of Birth stored in PMDM	A/N	YYYY-MM-DD
7	MDM_EMAIL	Email address of customer stored in PMDM	A/N	
8	MDM_EMAIL_EFF_DT	Effective Date of Email Address from PMDM	A/N	YYYY-MM-DD
9	MDM_MOBILE_PHONE	Mobile number of Customer stored in PMDM	A/N	
10	MDM_MOBILE_PHONE_EFF_DT	Effective Date of Mobile Phone from PMDM	A/N	YYYY-MM-DD
11	MDM_COUNTRY_CODE	The international dialing code associated with the Person's Phone Number	A/N	
12	MDM_EMAIL_OPT_IN_FLG	The Person's promotional Email correspondence preference	A/N	Y = Yes N= No
13	MDM_TEXT_OPT_IN_FLG	The Person's promotional SMS correspondence preference - default to N	A/N	Y = Yes N= No
14	MDM_SMS_STOP_DT	Date a person texted STOP to SMS	A/N	YYYY-MM-DD
15	MDM_CORRESPONDENCE_PREFERENCE	The Person's preference for receiving electronic or physical mail	A/N	E = Email M = Paper Mail
16	MDM_LANGUAGE_PREFERENCE	The Person's preferred language of communication to receive email, to receive text correspondences	A/N	E = English S = Spanish
17	FAFSA_FIRST_NAME	First Name from FAFSA Transaction	A/N	
18	FAFSA_EMAIL	Email from FAFSA Transaction to use for FAFSA transactional emails	A/N	
19	FAFSA_LANGUAGE_PREFERENCE	Language preference from FAFSA Transaction	A/N	E = English S = Spanish
20	STATE OF LEGAL RESIDENCE	Student's State of Legal Residence	A/N	
21	SCHOOL_CODE	Indicates the School Enrollment Code (OPEID) associated to the FAFSA student's latest TEACH, Direct Loan (DLS or DLU), or Pell disbursement on the COD System.	A/N	
22	PELL_RECIPIENT_FLG	Indicates whether customer is a Pell recipient	A/N	Y = Yes N= No
23	SCHOOL_TYPE	Calculated based on actual aid disbursement for the customer. This flag is set based on the transaction award year for the	A/N	

Position	Data Element	Description	Field Format	Valid Values
		corresponding COD grant/loan award year		

6.3. Transaction Person File

Position	Data Element	Description	Field Format	Valid Values
1	RECORD_ID	Unique identifier of the CPS FAFSA TXN that links to the FAFSA Transaction file	N	
2	PRSN_TYPE	Person Type - either student or parent	A	
3	EMAIL_ID	Unique Identifier for each Recipient. If the Recipient has a MDM Person ID the value will be the MDM_PERSON_ID. If there is no MDM ID, then the value will be unique based on the based on the Recipient's email address	A/N	
4	MDM_PERSON_ID	Unique MDM Person Identifier of either Student or Parent that links to the customer file	N	'S' = Student 'P' = Parent
5	STUDENT_FIRST NAME	First name of student for parent records – for personalization	A/N	

6.4. Transaction File

Position	Data Element	Description	Field Format	Valid Values
1	RECORD_ID	Unique identifier of the CPS FAFSA TXN	N	
2	AWARD_YEAR	Award Year of the submitted transaction	N	YYYY
3	CPS_PROCESS_DT	CPS processing date of TXN	A/N	YYYY-MM-DD
4	FILE_CREATE_DT	Date the TXN was pushed to the MCP	A/N	YYYY-MM-DD
5	TXN_SOURCE_CODE	Transaction data source code from DDE	A/N	1 = Electronic 2 = Student Web 3 = FAA Web 4 = Paper 5 = CPS 6 = FSAIC 7 = FAFSA4caster 8 = Mobile App
6	TXN_DATA_TYPE_CODE	Transaction Data Type from DDE	A/N	A – Application B – Spanish Application C – Correction D – Drug Abuse Hold Release E – EZ FAFSA F – EZ FAFSA Spanish G – EZ FAFSA Renewal H – EZ FAFSA Spanish Renewal J – Correction Application K – Correction Application Spanish

Position	Data Element	Description	Field Format	Valid Values
				L – Identity Hold Release M – DHS Secondary Confirmation N – NSLDS Postscreening P – Reprocessed Record Q – Spanish Correction R – Renewal Application S – CPS System Generated Signature T – Spanish Renewal Application U – PDF Application V – Spanish PDF Application W – SSA Death File Match Y – Identity Verification X – DOD File Match
7	APP_SOURCE_CODE	Application Source Code from DDE	A/N	1 = Electronic 2 = Student Web 3 = FAA Web 4 = Paper 6 = FSAIC 7 = FAFSA4caster 8 = Mobile App
8	APP_DATA_TYPE_CODE	Application TXN Code from DDE	A/N	A – Application B – Spanish Application E – EZ FAFSA F – EZ FAFSA Spanish G – EZ FAFSA Renewal H – EZ FAFSA Renewal Spanish J – Correction Application K – Correction Application Spanish R – Renewal Application T – Spanish Renewal Application U – PDF Application V – Spanish PDF Application
9	DEPENDENCY_STATUS	Student Dependency Status from DDE	A/N	D = Dependent with EFC X = Dependent rejected I = Independent with EFC Y = Independent rejected
10	STUDENT_TAX_FILING_STATUS	Student's Tax Return Filing Status	A/N	1 = Single 2 = Married-Filed Joint Return 3 = Married-Filed Separate Return 4 = Head of Household 5 = Qualifying Widow(er) 6 = Don't Know Blank
11	STUDENT_TAX_RETURN_STATUS	Student's Tax Return Status	A/N	1 = Already Completed 2 = Will File 3 = Will Not File Blank = No response
12	STUDENT_TAX_RETURN_TYPE	Student's Type of Tax Return	A/N	1 = 1040 2 = 1040A/EZ (2019-2020 only) 3 = Foreign 4 = U.S Trust Territory Blank = No response
13	STUDENT_IRS_REQUEST_FLG	Student IRS Request Flag	A/N	00 = IRS data request option was not presented to the student (default value) 01 = IRS data request for the student was sent to IRS but data was not transferred back from IRS

Position	Data Element	Description	Field Format	Valid Values
				02 = IRS data for the student was returned from IRS and was not changed by the user 03 = IRS data for the student was returned from IRS and was changed by the user 04 = IRS data for the student was returned from IRS and was corrected by the user on a subsequent transaction 05 = IRS data request option was presented but not used by the student 06 = IRS data request option was presented to the student, IRS data was transferred, but change was made that made student ineligible to use the option 07 = User transferred data from the IRS, but the IRS indicated that the student filed an amended tax return Blank = Paper FAFSA; not eligible for IRS Data Retrieval
14	PARENT_TAX_FILING_STATUS	Parent's Tax Return Filing Status	A/N	1 = Single 2 = Married-Filed Joint Return 3 = Married-Filed Separate Return 4 = Head of Household 5 = Qualifying Widow(er) 6 = Don't Know Blank
15	PARENT_TAX_RETURN_STATUS	Parent's Tax Return Status	A/N	1 = Already Completed 2 = Will File 3 = Will Not File Blank = No response
16	PARENT_TAX_RETURN_TYPE	Parent's Type of Tax Return	A/N	1 = 1040 2 = 1040A/EZ (2019-2020 only) 3 = Foreign 4 = U.S Trust Territory Blank = No response
17	PARENT_IRS_REQUEST_FLG	Parent's IRS Request Flag	A/N	00 = IRS data request option was not presented to the student (default value) 01 = IRS data request for the student was sent to IRS but data was not transferred back from IRS 02 = IRS data for the student was returned from IRS and was not changed by the user 03 = IRS data for the student was returned from IRS and was changed by the user 04 = IRS data for the student was returned from IRS and was corrected by the user on a subsequent transaction 05 = IRS data request option was presented but not used by the student 06 = IRS data request option was presented to the student, IRS data

Position	Data Element	Description	Field Format	Valid Values
				was transferred, but change was made that made student ineligible to use the option 07 = User transferred data from the IRS, but the IRS indicated that the student filed an amended tax return Blank = Paper FAFSA; not eligible for IRS Data Retrieval
18	PELL_ELIGIBILITY_FLG	Pell Grant Flag	A/N	Y = Eligible for Pell Grant Blank = Not eligible for Pell Grant
19	ACADEMIC_LEVEL	Student's College Grade Level	N	0 = 1st Year, Never Attended 1 = 1st Year, Attended Before 2 = 2nd Year/Sophomore 3 = 3rd Year/Junior 4 = 4th Year/Senior 5 = 5th or more, Undergraduate 6 = 1st year graduate/professional 7 = Continuing graduate/professional or beyond Blank = No response
20	SAR_C_FLG	SAR C Flag	A/N	Y = SAR C Flag set; resolution required Blank = Not set
21	AUTO_ZERO_EFC_FLG	Automatic Zero EFC Flag	A/N	Y = Auto Zero EFC met Blank = Auto Zero EFC not met
22	PRIMARY_EFC	Primary Expected Family Contribution	A/N	Right-justified left zero filled; whole number. 000000 to 999999 Blank = No EFC calculated
23	SCHOOL_CODE_1	School Code 1	A/N	
24	SCHOOL_CODE_2	School Code 2	A/N	
25	SCHOOL_CODE_3	School Code 3	A/N	
26	SCHOOL_CODE_4	School Code 4	A/N	
27	SCHOOL_CODE_5	School Code 5	A/N	
28	SCHOOL_CODE_6	School Code 6	A/N	
29	SCHOOL_CODE_7	School Code 7	A/N	
30	SCHOOL_CODE_8	School Code 8	A/N	
31	SCHOOL_CODE_9	School Code 9	A/N	
32	SCHOOL_CODE_10	School Code 10	A/N	
33	SSA_MATCH_FLG	Student SSN Match flag	A/N	1 = No match on SSN 2 = SSN and Name match, no Date of Birth match 3 = SSN only match, no Name or Date of Birth match 4 = SSN, Name and Date of Birth match 5 = SSN is assigned to a person reported as dead 6 = SSN not verified 8 = Record not sent to SSA
34	IDENTIFICATION_CHANGE_FLG	Identification Change Flag	A/N	B = Identity (Last Name and SSN) has changed N = Last Name change only S = SSN change only

Position	Data Element	Description	Field Format	Valid Values
				D = DOB change only Blank = No change
35	REJECTED_FLG	Derived based on Reject Codes - same logic as current code	A/N	T = IRS conflict
36	SPECIAL_HANDLING_IND	Special Handling Indicator	A/N	* = Damaged form @ = ED Special Handle request P = Address too long L = Late processing D = Applicant younger than 13 Blank = No special handling required
37	REAL_TIME_PROCESSING_FLG	Real Time Flag	A/N	Y = Real time transaction N = Not a real time transaction
38	PROFESSIONAL_JUDGEMENT_FLG	Professional Judgment Field from DDE	A/N	1 – Successful Professional Judgment 2 – Unsuccessful Professional Judgment Blank – No Professional Judgment attempted
39	SIGNED_BY_CODE	Signed By Code	A/N	A = Applicant Only P = Parent Only B = Both Applicant and Parent Blank = Not signed
40	PROCESSED_RECORD_TYPE	Processed Record Type from DDE	A/N	Blank = Initial or Renewal Application C = Correction Application H = Correction or Duplicate
41	VERIFICATION_SELECTION_CODE	Verification Selection Code	A/N	Y = Selected for verification N = Not selected for verification * = A subsequent transaction was selected for verification
42	SPECIAL_CIRCUMSTANCES_IND	Special Circumstances Flag	A/N	1 = Dependent record submitted without parental data 2 = Parental data corrected 3 = Unaccompanied Homeless Individual 4 = Dependent record for Unsubsidized Loans only Blank = No flag set
43	ACTIVE_MILITARY_DUTY_IND	Active Duty Military	A/N	1 = Yes 2 = No Blank = No response
44	STUDENT_VETERAN_CODE	Veteran Status	A/N	1 = Yes 2 = No Blank = No response
45	STUDENT_ZIP_CODE			
46	STUDENT_AGI_RANGE_CODE	Range in which the student's Adjusted Gross Income falls	A/N	0 = Income is equal to or less than \$0 1 = Greater than \$0 but less than \$26,000 2 = Greater than \$26,000 but less than \$53,000 3 = Greater than \$53,000
47	PARENT_AGI_RANGE_CODE	Range in which the parent's Adjusted Gross Income falls	A/N	0 = Income is equal to or less than \$0 1 = Greater than \$0 but less than

Position	Data Element	Description	Field Format	Valid Values
				\$26,000 2 = Greater than \$26,000 but less than \$53,000 3 = Greater than \$53,000
48	STUDENT_SPOUSE_AGI_RANGE_CODE	Range in which the student's spouse's Adjusted Gross Income falls	A/N	0 = Income is equal to or less than \$0 1 = Greater than \$0 but less than \$26,000 2 = Greater than \$26,000 but less than \$53,000 3 = Greater than \$53,000
49	STUDENT_SIGNATURE_FLG	Student Signed By Flag	A/N	E = Student signed electronically P = Student signed on paper Blank = Not signed
50	PARENT_SIGNATURE_FLG	Parent Signed By Flag	A/N	E = Parent signed electronically P = Parent signed on paper Blank = Not signed
51	DOB_CHANGE_IND	Indicates whether the student changed DOB	A/N	1 = DOB change Null = no change
52	ELIGIBLE_PARENT_FOR_FSA_ID	Calculated to indicate that the parent is eligible for an FSA ID	A/N	Y = Parent is eligible for FSA ID N = Parent is not eligible for FSA ID
53	PELL_DISB_FLG	Indicator that the transaction is tied to a PELL Disbursement	A/N	Y/N
54	TEACH_DISB_FLG	Indicator that the transaction is tied to a TEACH Disbursement	A/N	Y/N
55	DL_DISB_FLG	Indicator that the transaction is tied to a DL Disbursement	A/N	Y/N
56	IASG_DISB_FLG	Indicator that the transaction is tied to an IASG Disbursement	A/N	Y/N

6.5. Ad Hoc File

Position	Data Element	Description	Field Format	Valid Values
1	MDM_PERSON_ID	PMDM unique customer identifier	N	
2	MDM_FAN	The unique identifier in the PAS System	A/N	^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}\$' EX: AAAA00D0-00A0-11AA-0A11-00A0000A00A0
3	MDM_FIRST_NAME	First name of customer stored in PMDM	A/N	
4	MDM_LAST_NAME	Last name of customer stored in PMDM	A/N	YYYY-MM-DD
5	MDM_DOB	Date of Birth stored in PMDM	A/N	YYYY-MM-DD
6	MDM_EMAIL	Email address of customer stored in PMDM	A/N	

Position	Data Element	Description	Field Format	Valid Values
7	MDM_EMAIL_EFF_DT	Effective Date of Email Address from PMDM	A/N	YYYY-MM-DD
8	MDM_MOBILE_PHONE	Mobile number of Customer stored in PMDM	A/N	
9	MDM_MOBILE_PHONE_EFF_DT	Effective Date of Mobile Phone from PMDM	A/N	YYYY-MM-DD
10	MDM_COUNTRY_CODE	The international dialing code associated with the Person's Phone Number	A/N	
11	MDM_EMAIL_OPT_IN_FLG	The Person's promotional Email correspondence preference	A/N	Y = Yes N= No
12	MDM_TEXT_OPT_IN_FLG	The Person's promotional SMS correspondence preference - default to N	A/N	Y = Yes N= No
13	MDM_SMS_STOP_DT	Date a person texted STOP to SMS	A/N	YYYY-MM-DD
14	MDM_CORRESPONDENCE_PREFERENCE	The Person's preference for receiving electronic or physical mail	A/N	E = Email M = Paper Mail
15	MDM_LANGUAGE_PREFERENCE	The Person's preferred language of communication to receive email, to receive text correspondences	A/N	E = English S = Spanish
16	FIRST_NAME	First Name provided	A/N	
17	LAST_NAME	Last Name provided	A/N	
18	EMAIL	Email Address Provided	A/N	
19	SUPP_DATA_1	Supplement Data Element 1	A/N	
20	SUPP_DATA_2	Supplement Data Element 2	A/N	
21	SUPP_DATA_3	Supplement Data Element 3	A/N	
22	SUPP_DATA_4	Supplement Data Element 4	A/N	
23	SUPP_DATA_5	Supplement Data Element 5	A/N	
24	SUPP_DATA_6	Supplement Data Element 6	A/N	
25	SUPP_DATA_7	Supplement Data Element 7	A/N	
26	SUPP_DATA_8	Supplement Data Element 8	A/N	
27	SUPP_DATA_9	Supplement Data Element 9	A/N	
28	SUPP_DATA_10	Supplement Data Element 10	A/N	
29	SUPP_DATA_11	Supplement Data Element 11	A/N	
30	SUPP_DATA_12	Supplement Data Element 12	A/N	
31	SUPP_DATA_13	Supplement Data Element 13	A/N	
32	SUPP_DATA_14	Supplement Data Element 14	A/N	
33	SUPP_DATA_15	Supplement Data Element 15	A/N	
34	SUPP_DATA_16	Supplement Data Element 16	A/N	
35	SUPP_DATA_17	Supplement Data Element 17	A/N	
36	SUPP_DATA_18	Supplement Data Element 18	A/N	
37	SUPP_DATA_19	Supplement Data Element 19	A/N	
38	SUPP_DATA_20	Supplement Data Element 20	A/N	

Position	Data Element	Description	Field Format	Valid Values
39	FILE_CREATE_DT	Create Date of File	A/N	

Section 7. Interface Assumptions and Dependencies

7.1. Assumptions

#	Assumption
	Operational Assumptions
1	Data for Ad Hoc campaigns will be provided to COD Operations and verified by DCC Operations in order to generate Ad Hoc files.
2	
3	
	Functional Assumptions
1	N/A
2	
3	

7.2. Dependencies

#	Dependencies
1	COD is dependent on receiving and the successful processing of inbound CPS Detailed Demographic Exchange files before generating the FAFSA Transaction, Customer and Transaction Person Files.
2	COD is dependent on receiving and the successful processing of inbound CPS GDOS files to generate the GDOS file.
3	COD is dependent on being able to access PMDM webservice for Ad Hoc and FAFSA file creation

Appendix A - Acronyms and Abbreviations

ACRONYM	DEFINITION
COD	Common Origination and Disbursement
DCC	Digital & Customer Care
CPS	Central Processing System
MCP	Marketing and Communications Platform

Table A-1: Acronyms and Abbreviations

Appendix B - Glossary

TERM	DEFINITION

Table B-1: Glossary

FSA Integration Partner

United States Department of Education

Office of Federal Student Aid

COD – CPS Interface FSA Grant Recipient File

File Specification

AY22-23

Document Reference: COD-CPS_File Layout_AY22-23_R21.0

March 27th , 2022

Document Change Control

Date	Author	Version	Change Reference
10/19/2017	Eva Hogan	1.0	2018-2019 New Award Year Setup for Release 17.0
11/17/2017	Eva Hogan	2.0	Updated per comments from ICD Review.
04/10/2018	Daniel paylor	3.0	Updated to reflect AEI Indicator in position 65.
8/18/2018	Lydia Yi	4.0	2019-2020 New Award Year Setup for Release 18.0
1/22/2018	Emilie Schaphorst Calvin Chang	5.0	2019-2020 New Award Year Setup for Release 18.0 – added IASG information
02/07/2019	Amy Lebrecht	6.0	Additional edits for 2019-2020 New Award Year Setup – removed IASG LEU and TEU calculations
02/25/2019	Amy Lebrecht	7.0	Edits to the Pell Percentage of Lifetime Eligibility Used and Pell Percentage of Total Eligibility Used descriptions
10/28/2019	Accenture	8.0	Updated to include SAIG header and trailers
01/03/2020	Tishin Begum	9.0	2020-2021 New Award Year Setup for Release 19.0
03/31/2021	Evion Wong Nathan Mathai	10.0	2021-2022 New Award Year Setup for Release 20.0
11/03/2021	Tatiana Marquez Nathan Mathai	11.0	2022-2023 New Award Year Setup for Release 21.0

File Specification

Grant Recipient Record

Data Records

Grant Recipient File Record Layout – 2022-2023

The last two columns will be filled with an 'R' if the field is required for the Recipient Type, 'O' for if the data field is Optional for the award, and an 'N/A' if the field is not applicable for the Recipient Type. If the field is Required 'R' then COD is required to send the value they have on their system even if the value is blank.

The following valid values for fields as specified in this document are accurate as of the approval of this ICD. These values are subject to change as needed in subsequent change requests or system releases.

Data Element	Description	Field Format	Length	Start Position	End Position
SAIG Batch Header Identification	Constant "O*N05"	Alphanumeric	5	1	5
Destination SAIG Mailbox	Destination SAIG Mailbox	Alphanumeric	7	6	12
Constant spaces	Unused	Alphanumeric	7	13	19
Header Class Label	Constant: ",CLS="	Alphanumeric	5	20	24
Destination Message Class	Varies based on file type	Alphanumeric	8	25	32
Header XXX Label	Constant: ",XXX"	Alphanumeric	4	33	36
Text used to identify the next field in a Batch ID	Constant: ",BAT="	Alphanumeric	5	37	41
Batch ID	File Batch ID	Alphanumeric		42	

Data Element	Description	Field Format	Length	Start Position	End Position
Constant spaces	Unused (Record must exceed 70 characters)	Alphanumeric	70+	42	92

Description	Start	End	Length	Type	Required/Optional for Pell	Required/Optional for TEACH
Original SSN – Social Security Number (SSN) as provided by the applicant on the original (first) FASFA for the school year. The Original SSN is used in the applicant's ID for the entire school year processing cycle and cannot be changed. Original SSN is obtained from the Central Processing System (CPS) Demographic Data Exchange (DDE) File. Format: 999999999	1	9	9	N	R	R
Original Name Code – First two characters of the applicant's last name on the original (first) FASFA for the school year. The Original Name Code is used in the applicant's ID for the entire school year processing cycle and cannot be changed. This field is obtained from CPS Demographic Data Exchange (DDE) File. Format: AA Can be blank, COD will store Blanks on the System and will continue processing per existing COD rules. If non-blank, first character has to be alpha. Second character can be: Blank, A-Z, . (period), ' (apostrophe), or – (dash)	10	11	2	A/N	R	R
Transaction Number – Assigned by Central Processing System (CPS), starting at 01 for the applicant's first transaction for the school year processing cycle. This field is obtained from CPS Demographic Data Exchange (DDE) File. Range: 01-99 Cannot be blank	12	13	2	N	R	R
Unused Constant Space	14	18	5	A/N	N/A	N/A
Applicant Last Name - This value is stored on the COD system. Blank is a valid value	19	34	16	A/N	R	R
Applicant First Name - This value is stored on the COD system. Blank is a valid value	35	46	12	A/N	R	R
Applicant Middle Initial - This value is stored on the COD system. Blank is a valid value	47	47	1	A	R	R
Applicant Date of Birth – Applicant DOB is submitted by the school via the Common Record. Format: CCYYMMDD	48	55	8	D	R	R
Current SSN – as of this applicant transaction number. Current SSN is submitted by the school via the Common Record.	56	64	9	N	R	R
Unused Constant Space	65	65	1	A	N/A	N/A
DoD Match Flag - This is obtained from CPS Demographic Data Exchange (DDE) File for Pell awards only. If this field is populated on the AAF with a 'Y', the student is eligible for the maximum Pell award, regardless of the EFC. Valid Values: Pell: Y= student is the dependent of a service member who died in Iraq or Afghanistan or who died due to injuries while in service after September 11, 2001. Blank TEACH: always blank	66	66	1	A/N	R	N/A
Additional Eligibility Indicator (AEI) – Y/N value. This value is stored on the COD System. Blank is a valid value.	65	65	1	A	R	N/A
Recipient Type – This is calculated by COD. This is obtained from the Common Record. P=PELL Recipient H=TEACH Grant Recipient	70	70	1	A	R	R
Reporting Campus Pell ID – Pell Institution Number of school which reported the Origination record. Right Justified; left zero filled Blank for TEACH Recipient Type	71	76	6	N	R	N/A
Attended Campus Pell ID – Pell Institution Number of school which the student attends. Must equal the Reporting campus or be a participating branch of the Reporting campus. Right Justified; left zero filled Blank for TEACH Recipient Type	77	82	6	N	R	N/A
Enrollment Date – First date that the student enrolled in an eligible program in this school year. This is submitted by the school via Common Record. Valid values for Pell and TEACH: 20221001– 2023630 for 2022-2023. Format – CCYYMMDD	83	90	8	D	R	R

Description	Start	End	Length	Type	Required/Optional for Pell	Required/Optional for TEACH
Incarceration Indicator - Indicates the student's incarceration status. This is submitted by the school via the Common Record. Y = Incarcerated, but otherwise eligible to receive Federal Pell Grant awards N = Not (or no longer) incarcerated Blank = Not incarcerated Blank for TEACH Recipient Type	91	91	1	A	R	N/A
Verification Flag – Flag indicating if the applicant was selected by CPS for application data verification. This field is obtained from the CPS Demographic Data Exchange File. Y = Selected by CPS for verification * = Selected on Subsequent Transaction N or blank = Not selected	92	92	1	A	R	R
Verification Status – Results from school's verification of applicant data. This is submitted by the school via the Common Record. Range: W = Made first payment without completing verification. V = Verified S = Selected Not Verified Blank is a valid value for Pell Blank for TEACH Recipient Type	93	93	1	A/N	R	N/A
Cost of Attendance – Cost of student's program, calculated per Federal Pell Grant regulations. This is submitted by the school via the Common Record. Right Justified, left zero filled – whole dollars no cents Blank for TEACH Recipient Type	94	98	5	A/N	R	N/A
Grade Level as reported by school (via Common Record) to COD for TEACH Grant Recipient Types, not the grade level that the student may have self-certified within CPS. 0= 1 st year never previously attended for TEACH Recipient Type 1= 1 st year for TEACH Recipient Type 2= 2 nd year for TEACH Recipient Type 3= 3 rd year for TEACH Recipient Type 4= 4 th year for TEACH Recipient Type 5= 5 th year for TEACH Recipient Type 6= 6 th year for TEACH Recipient Type 7= 7 th year for TEACH Recipient Type 0 = Pell Recipient Type	99	99	1	A	N/A	R
Unused Constant Space	100	113	14	A/N	N/A	N/A

Description	Start	End	Length	Type	Required/Optional for Pell	Required/Optional for TEACH
<p>Scheduled Award Amount – The maximum award amount that a student qualifies for. It is calculated by COD. COD Business Rules: Pell: 0000000 – TBD* *Depends on Pell Payment Schedule Right Justified; left zero filled. Dollars and cents for Pell, Recipient Type. Blank for TEACH Recipient Type. Example: \$1000.50 = 0100050.</p>	114	120	7	A/N	R	N/A
<p>Origination Award Amount – the amount the school expects to pay the student for the school year. This is submitted by the school via Common Record.</p> <ul style="list-style-type: none"> - Pell Grant Recipient Type – Maximum amount for award year: If the Additional Eligibility Indicator (AEI) is set to 'No' or 'Blank' the maximum amount for award year is SFPG. If the Additional Eligibility Indicator (AEI) is set to 'Yes' the maximum amount for award year is up to one and a half times the SFPG for Award Years <u>2022-2023</u> and forward. - TEACH Grant Recipient Type – Maximum amount for a single TEACH award = \$4000; Total of all awards may not exceed \$8,000; - COD Business Rules: Pell: 0000000 – 9999999. Right Justified; left zero filled, Dollars and cents for Pell Recipient Type. Ex: \$1000.50 = 0100050. 	121	127	7	N	R	R
<p>Total Accepted Disbursement Amount – Amount Paid to date for this student at this attended campus. This is submitted by the school via the Common Record.</p> <ul style="list-style-type: none"> - Formula: Sum of all funded disbursement amounts (+ and -) accepted and applied (NAPD) by COD for this award. - Pell Grant Recipient Type – Maximum amount for award year as determined by the Scheduled Award Amount. - TEACH Grant Recipient Type – Maximum amount for a single TEACH disbursement = \$4000. - Right Justified; left zero filled, dollars and cents. Ex: \$1000.50 = 0100050 	128	134	7	N	R	R
<p>Number of Disbursements Accepted – this is the number of funded disbursement activities (initial disbursements and disbursement amount adjustments) that have been accepted and applied. This is calculated by COD.</p>	135	136	2	N	R	R
<p>Teacher Expert Indicator – from the Common Record. This field will be used by schools to indicate that the student is a retired professional from a field which is in need of teachers and that the student is returning to school with the intent of teaching in that field once the degree has been completed. Valid Values for TEACH: Y = True N = False Blank is a valid value Blank for Pell Recipient Types</p>	137	137	1	A	N/A	R
<p>Unused Constant Space</p>	138	142	5	A/N	N/A	N/A

Description	Start	End	Length	Type	Required/Optional for Pell	Required/Optional for TEACH
POP Indicator for Pell Recipient Type. This is calculated by COD. Blank – never blocked Y – POP-blocked N – Award no longer in a POP situation Blank for TEACH Recipient Type	143	143	1	A	R	N/A
Date of Last Activity – This is calculated by COD. This field is the latest date of the following: - date award accepted - date any initial disbursement is posted - date any disbursement date adjustment or amount adjustment is posted Format – CCYYMMDD	144	151	8	D	R	R
Primary Formula Type – This is obtained from CPS Demographic Data Exchange File 0 = No EFC computed 1 = Full needs test : Dependent 2 = Full needs test : Independent Without dependents other than a spouse 3 = Full needs test : Independent With dependents other than a spouse 4 = Simplified needs test: Dependent 5 = Simplified needs test: Independent without dependents other than a spouse 6 = Simplified needs test: Independent with dependents other than a spouse	152	152	1	N	R	R
Parent Tax Return Status – This is obtained from CPS Demographic Data Exchange File 1 = Already Completed. 2 = Will File. 3 = Will Not File. Blank = No response	153	153	1	A/N	R	R
Application Data Source – This is obtained from CPS Demographic Data Exchange File 1 = Electronic 2 = Web Student 3 = Web FAA 4 = Paper 6 = FSAIC 7 = FAFSA4caster Cannot be Blank	154	154	1	N	R	R

Description	Start	End	Length	Type	Required/Optional for Pell	Required/Optional for TEACH
Transaction Data Source – This is obtained from CPS Demographic Data Exchange File 1 = Electronic 2 = Web Student 3 = Web FAA 4 = Paper 5 = CPS 6 = FSAIC 7 = FAFSA4caster Cannot be Blank	155	155	1	N	R	R
College Grade Level as reported on FAFSA. This is obtained from CPS Demographic Data Exchange File. 0 = 1st Year, Never Attended 1 = 1st Year, Attended Before 2 = 2nd Year 3 = 3rd Year 4 = 4th Year 5 = 5th or more, Undergraduate 6 = 1st Year Graduate/professional 7 = Continuing Graduate/professional, or beyond Blank = No response	156	156	1	A/N	R	R
Unused Constant Space	157	162	6	A/N	N/A	N/A
Student Citizenship Status – This is obtained from the Demographic Data Exchange File or from the Common Record submitted to COD by the School. 1 = U.S. Citizen 2 = Eligible Non-citizen 3 = Neither of the above 4 = No response	163	163	1	A/N	R	R
Parent's State of Legal Residence – This is obtained from CPS Demographic Data Exchange File Valid two letter postal code Blank = No Response	164	165	2	A	R	R
Are you Male or Female? – This is obtained from CPS Demographic Data Exchange File 1 = Male 2 = Female Blank = No response	166	166	1	A/N	R	R

Description	Start	End	Length	Type	Required/Optional for Pell	Required/Optional for TEACH
SAR "C" Flag – Flag indicating that a C appears immediately after the EFC on the SAR. This is obtained from CPS Demographic Data Exchange File "Y" = C flag set; resolution required Blank =No C flag set	167	167	1	A	R	R
Dependency Status – Must contain the indicator that identifies whether the student was treated as Dependent or Independent for purposes of EFC calculation. This is obtained from CPS Demographic Data Exchange File unless indicated that it should be overridden by common record submitted value. D = Dependent with Primary EFC I = Independent with Primary EFC X = Dependent Rejected (no EFC)	168	168	1	A	R	R
Student Tax Status – This is obtained from CPS Demographic Data Exchange File 1 = Already Completed. 2 = Will File. 3 = Will Not File Blank = no response	169	169	1	A/N	R	R
SSA Citizenship Flag – This is obtained from CPS Demographic Data Exchange File A = U.S. citizen B = Legal alien, eligible to work C = Legal alien, not eligible to work D = Other E = Alien, student restriction, work authorized F = Conditional legalized alien N = Unable to verify due to no match on name or SSN or date of birth * = Foreign born Blank = Domestic born (U.S. citizen)	170	170	1	A/N	R	R
Student State of Legal Residence – This is obtained from CPS Demographic Data Exchange File. Valid two letter postal code. Blank = no response	171	172	2	A	R	R
CPS Date Processed – This is obtained from CPS Demographic Data Exchange File Format: CCYYMMDD	173	180	8	D	R	R
Automatic Zero EFC Flag – This is obtained from CPS Demographic Data Exchange File Y =EFC set to zero based on income criteria Blank = Flag Not Set	181	181	1	A	R	R
Unused Constant Space	182	187	6	A/N	N/A	N/A

Description	Start	End	Length	Type	Required/Optional for Pell	Required/Optional for TEACH
Applicant Street Address – This is obtained from the Common Record.	188	222	35	A/N	R	R
Applicant City – This is obtained from the Common Record.	223	238	16	A/N	R	R
Applicant Mail State – This is obtained from the Common Record.	239	240	2	A	R	R
Applicant Zip Code – This is obtained from the Common Record. Format: 00000-99999 Blank is a valid value	241	245	5	A/N	R	R
SSA Match Flag – This is obtained from CPS Demographic Data Exchange File. 1 = No match on SSN 2 = SSN and Name match, no Date of Birth match 3 = SSN only match, no Name or Date of Birth match 4 = SSN, Name and Date of Birth match 5 = SSN is assigned to a person reported as dead 6 = SSN not verified 8 = Record not sent to SSA	246	246	1	A/N	R	R
NSLDS Match Flag – This is obtained from CPS Demographic Data Exchange File. 1 = Eligible for Title IV Aid 2 = Default 3 = Overpayment 4 = Default and Overpayment 7 = Match but no data provided 8 = Transaction not sent to NSLDS Blank = None Available	247	247	1	A/N	R	R
Post 9/11 Deceased Veteran Dependent Indicator - is a school submitted value entered via the web. The Post 9/11 Deceased Veteran Dependent indicator is not related to the Zero EFC indicator. Y – Indicator is set to 'Yes' N – Indicator is set to 'No' Blank – Flag not set	248	248	1	A	O	N/A
Dependency Override Indicator – Indicates that a Dependency Override was requested on this transaction on CPS Demographic Data Exchange File. 1 = Dependent to Independent Override 2 = Dependency Override Canceled 3 = Dependency Override request failed 4 = Homeless Youth Determination Blank = Dependency Override not requested	249	249	1	A/N	R	R

Description	Start	End	Length	Type	Required/Optional for Pell	Required/Optional for TEACH
Application Data Type – This is obtained from CPS Demographic Data Exchange File. A – Application B – Spanish Application E – EZ FAFSA F – EZ FAFSA Spanish G – EZ FAFSA Renewal Application H – EZ FAFSA Renewal Spanish J – Correction Application K – Correction Application Spanish R – Renewal Application T – Spanish Renewal Application U = PDF Application V = Spanish PDF Application Cannot be Blank	250	250	1	A	R	R

Description	Start	End	Length	Type	Required/Optional for Pell	Required/Optional for TEACH
Transaction Data Type – This is obtained from CPS Demographic Data Exchange File A – Application B – Spanish Application C – Correction Full SAR D – Drug Abuse Hold Release E – EZ FAFSA F – EZ FAFSA Spanish G – EZ FAFSA Renewal Application H – EZ FAFSA Renewal Spanish J – Correction Application K – Correction Application Spanish L – Identity Hold Release M – DHS Secondary Confirmation N – NSLDS Post-screening P – Reprocessing Q – Spanish Correction R – Renewal Application S – Signature Page T – Spanish Renewal Application U – PDF Application V – Spanish PDF Application W – SSA Death File Match Y – Identity Verification X – DOD File Match Cannot be Blank	251	251	1	A	R	R
Award ID is a unique identifier for TEACH Awards. This is from the Common Record. TEACH: SSN (9 char.), Award Type (1 char. TEACH = H), Award Year (2 char.), Attended School OPE ID (first 6 char. of OPE ID), and Award Sequence Number (3 char.) Null for Pell Recipient Type	252	272	21	A/N	N/A	R
Unused Constant Space	273	278	6	A/N		
DHS Match Flag – This is obtained from CPS Demographic Data Exchange File. Department of Homeland Security citizenship match flag. Valid values for TEACH: Y = Citizenship confirmed N = Citizenship not confirmed Blank = Record not sent to DHS Blank for Pell	279	279	1	A	N/A	R

Description	Start	End	Length	Type	Required/Optional for Pell	Required/Optional for TEACH
<p>DHS Secondary Confirmation Flag – This is obtained from CPS Demographic Data Exchange File. Department of Homeland Security secondary citizenship match flag. Valid values for TEACH: Y = Citizenship confirmed N = Citizenship not confirmed X = Documentation needed P = Pending results of DHS secondary confirmation C = Not yet confirmed; process continuing Blank = Record not sent to DHS secondary confirmation Blank for Pell</p>	280	280	1	A	N/A	R
<p>Reporting School OPE ID – OPE Institution Number of school which is currently reporting for the attending location for this award. Format: 99999999. Blank for Pell Recipient Type</p>	281	288	8	N	N/A	R
<p>Attending School OPE ID – OPE Institution Number of attending location for this award. Format: 99999999. Blank for Pell Recipient Type</p>	289	296	8	N	N/A	R
<p>Pell Percentage of Lifetime Eligibility Used – Pell LEU: It is the sum of all Pell Eligibility Used percentages for a Pell recipient over the course of their entire lifetime, including Pell LEU adjustments. Format: 99v99999, with implied decimal (Example: 12v00000 is 1200.000%) Valid Values: Pell: 0000000-9999999 TEACH: always blank</p>	297	303	7	A/N	R	N/A
<p>First Time Pell Recipient Indicator – This is a legacy value and will always be blank. Prior to Release 11.1, this field was populated when a student received their first actual Pell disbursement. The First Time Pell Recipient Indicator determined a student's value for LEU beginning with Award Year 08-09 and forward.</p>	304	304	1	A	R	N/A
<p>Percentage of Eligibility Used at this attended campus institution. This is calculated by COD for both Pell and IASG. Formula for Pell: EU = Sum of Actual Disbursements minus DMCS Repayments divided by the Scheduled Federal Pell Grant Amount. In a negative pending scenario, the EU value will exceed 100%. Formula for IASG: EU = Sum of Actual Disbursements minus DMCS Repayments divided by the IASG Scheduled Federal Pell Grant Amount. In a negative pending scenario, the EU value will exceed 100%. Format: 9V999999, with implied decimal. Blank for TEACH Recipient Type.</p>	305	311	7	A/N	R	N/A

Description	Start	End	Length	Type	Required/Optional for Pell	Required/Optional for TEACH
Pell Percentage of Total Eligibility Used – Pell TEU = Sum of all Percentage of EU for all Pell awards for the Award Year. Format: 9V999999, with implied decimal Blank for TEACH Recipient Type.	312	318	7	A/N	R	N/A
Student Eligibility Code – This is an optional field that is used to determine a student is eligible to receive aid in the following cases: 01=Ability to Benefit - Testing Completed - 1st Enrolled Before 7/1/12 02=Ability to Benefit - College Credits - 1st Enrolled Before 7/1/12 04=Home Schooled 06=High School Diploma 07=GED certificate or State Authorized High School Equivalent Certificate 09= Academic Transcript of 2-yr Program Acceptable for Full Credit Transfer to a BA Program 10 = Program Leads to at least an Assoc. Degree, Excelled in H.S. and met the Admissions Requirements 11 = Ability to Benefit – Testing Completed - 1st Enrolled 7/1/12 to 6/30/15 12 = Ability to Benefit – Testing Completed - 1st Enrolled 7/1/15 or After 13 = Ability to Benefit - College Credits - 1st Enrolled 7/1/12 to 6/30/15 14 = Ability to Benefit – College Credits – 1st Enrolled 7/1/15 or After Blank is valid	319	320	2	A/N	O	O

Description	Start	End	Length	Type	Required/Optional for Pell	Required/Optional for TEACH
Ability to Benefit Test Code – Two digit code for the test associated with the Ability to Benefit Code 01, 11 or 12 01 - ASSET Program 02 - Career Program Assessment (CPAT) 03 - Combined English Language Skills Assessment (CELSA) 04 - Compass Subtests (COMPASS) 05 - Computerized Placement Tests (CPTs)/ACCUPLACER 06 - Descriptive Tests: Language Skills and Mathematical Skills (DTLS/DTMS) 07 - ESL Placement Test (COMPASS/ESL) 08 - Wonderlic Basic Skills Test (WBST) 09 - WorkKeys Program 10 - Test of Adult Basic Education (TABE, Reading Mathematics Computation, Applied Mathematics Language, and Spelling Forms 7 and 8, Level A and 3) 11 - Spanish Assessment of Basic Education (SABE) 12 - Wonderlic Basic Skills Test – Spanish (WBST-Spanish) Blank is valid	321	322	2	A/N	O	O
Ability to Benefit Completion Date – Completion date associated with the test taken for the Student Eligibility Code 01 (testing completed). - Valid Values Format: CCYYMMDD 00010101 - Blank is valid when there is not an ATB completion date	323	330	8	D	O	O
Ability to Benefit State Code –This field was only valid for the decommissioned Student Eligibility Code 03 (State Process) and will always be blank for this award year and award years going forth.	331	332	2	A	O	O
Ability to Benefit Administrator Code – Administrator associated with the Ability to Benefit test a student has taken. This code will be one of the following values: 01 – Assessment Center 02 – Independent Test Administrator Blank is valid	333	334	2	A/N	O	O
High School Name Alpha/Numeric; 0-9, uppercase A-Z, blank, plus: . (period) - (dash) ' (apostrophe) # (number) @ (at) % (percent or care of) & (ampersand) / (slash) , (comma) : (colon) = (equal) "" (quotation marks) () (parenthesis) + (plus sign). Blank is valid	335	384	50	A/N	O	O
High School City Alpha/Numeric; 0-9, uppercase A-Z, blank, plus: . (period) - (dash) ' (apostrophe) # (number) @ (at) % (percent or care of) & (ampersand) / (slash) , (comma) Blank is valid	385	412	28	A/N	O	O
High School State - Valid two letter postal code. Blank is valid	413	414	2	A/N	O	O

Description	Start	End	Length	Type	Required/Optional for Pell	Required/Optional for TEACH
High School Code 0-9, A-Z Blank is valid	415	426	12	A/N	O	O
High School Flag Y = Reported High School not found on valid high school file Blank is valid	427	427	1	A/N	O	O
Primary Expected Family Contribution – Right-justified left zero filled; whole number. Used by CPS to determine applicant's eligibility for a Federal Pell Grant. Subject to change due to congressional action. - This field is obtained from CPS Demographic Data Exchange File. - Populated for Pell and TEACH Recipient Types. - Range: 000000–999999 - If the 'Post 9/11 Deceased Veteran Dependant Indicator' is equal to 'Y' COD will still populate this field with the CPS Calculated EFC.	428	433	6	A/N	R	R
Student Adjusted Gross Income (Signed) – This field is hard-coded as zeroes. Format: 000000{	434	440	7	A/N,S	R	R
Parent Adjusted Gross Income (Signed) - This value is stored on the COD system or This is obtained from the CPS Demographic Data Exchange File. Format: 000000{	441	447	7	A/N,S	R	R
CFH Indicator - This field is used to indicate eligibility for an increased Pell award under the Children of Fallen Heroes Scholarship Act. When = "Y" the Scheduled Award Amount is calculated with zero EFC regardless of the EFC on the CPS transaction. - This field is submitted by Schools via COD Web only for Award Year 2020-2021, 2021-2022 and 2022-2023. - For Award Year 2020-2021 and forward, the CFH Indicator will be systematically set when a Pell award is submitted via COD Web or School batch. COD will use the CFH Indicator on the linked CPS DDE Transaction to set or update the value. - If the reported award is an IASG award (i.e. IASG Flag = 'Y'), this field will be Blank or N. - Y/N - Blank is valid - Will be Blank for AY 2017-2018 and prior	448	448	1	A	R	O
Unused Constant Space	449	596	148	A/N		
School Year – Last year in the school year pair, e.g., constant 2023 for 2022-2023.	597	600	4	N	R	R

Data Element	Description	Field Format	Length	Start Position	End Position
Record Type	'AAA' – Represents Header	Alphanumeric	3	1	3
Header Sort Key	Low value '000000000'	Alphanumeric	9	4	12
Header Title	Value 'SEND FILE DATA HEADER'	Alphanumeric	21	13	33
Submittal Date/Time	Timestamp for when the file was submitted. Format: CCYYMMDDHHMMSSMMMMMM	Timestamp	20	34	53
	No punctuation.				
File ID	Unique File Identification Number	Numeric	8	54	61
Total Record Count	Total count of detail records.	Numeric	9	62	70
Type PSN Record Count	Total count of PSN record types	Numeric	9	71	79
Type DLA Record Count	Total count of DLA record types	Numeric	9	80	88
Type DLD Record Count	Total count of DLD record types	Numeric	9	89	97
Type PLA Record Count	Total count of PLA record types	Numeric	9	98	106
Type PLD Record Count	Total count of PLD record types	Numeric	9	107	115
Type THA Record Count	Total count of THA record types	Numeric	9	116	124
Type THD Record Count	Total count of THD record types	Numeric	9	125	133

U.S. Department of Education Federal Student Aid



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COD – G5 **G5 Adjustment File Send** **Interface Control Document**

Version 4.0
Release 21.0

November 15th, 2021

Document Version Control

Version	Date	Description
1.0	January 3 rd , 2019	Version 1.0 is for the updates for processing the 2020-2021 Award Year and Release 19.0.
2.0	March 31, 2021	Version 2.0 is for the updates for processing the 2021-2022 Award Year in Release 20.0
3.0	October 26, 2021	Version 3.0 is for the updates for the processing the 2022- 2023 Award Year in Release 21.0 alongside the changes for DUNS UEI in Release 21.0
4.0	November 15, 2021	Version 4.0 is for updates to the position of FSA Transaction ID for both the RF transactions record and OB and PY transactions record.

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1. Purpose

The purpose of this document is to describe the interface between COD, FMS and G5 for the COD-G5 G5 Adjustment File Send.

2. Interface Control Specification

The following describes the specific responsibilities of each system involved in this interface

Interface Name:	COD-G5 G5 Adjustment File Send
G5 Program Name:	EDCAPS
Interface Type:	Uni-directional
Interface Short Description	<p>This interface replaced the manual process that FSA users must perform to create manual updates on the G5 system with a DOS file.</p> <p>The COD System shall allow authorized FSA users to create and stage records to adjust Program funding amounts in specified years. Records shall be created on the COD Website and staged on the COD System. Every hour, staged records shall be packaged in an outbound file and sent to the FMS SAIG Mailbox.</p> <p>ESB shall be responsible for removing SAIG header and trailer records from each transmitted file.</p> <p>FMS shall be responsible for forwarding on files in the appropriate mailbox to the G5 system for processing. In order to maintain a heightened level of security around the sensitive information stored in the file, FMS shall not open or change the files in any manner while re-routing them to the G5 System.</p> <p>G5 shall accept the files when received and shall process an acknowledgement (as it does currently) that is transmitted back through the normal G5-FMS-COD interface. Refer to the <i>FMS to COD ICD (LMTD)</i> for all relevant interface protocol for this process.</p>

Destination Application:	<p>G5 is the destination application that shall receive the G5 Adjustment transactions via FMS created by authorized users on the COD Web site. The FMS mailboxes that receive the G5 files from COD are as follows:</p> <ul style="list-style-type: none"> • Production: <ul style="list-style-type: none"> ○ FMS MB ID: TG79363 • Test <ul style="list-style-type: none"> ○ FMS MB ID: TG79362
Destination Interface:	G5
Source Application:	<p>COD is the source application that shall create and send the manual funding transactions. Authorized users shall initiate the creation of manual funding records and the COD System shall sweep and send those records to the G5 system via FMS on a scheduled interval. These files will be sent with the following message classes from COD to the FMS SAIG Mailbox:</p> <ul style="list-style-type: none"> • Production: <ul style="list-style-type: none"> ○ COD MB ID: TG71900 ○ MC: CODG5POP • Test <ul style="list-style-type: none"> ○ COD MB ID: TGS2700 ○ MC: CODG5TOP <p>Refer to section 7.2 File Naming Convention for file names corresponding to each of the different file types associated to this interface. The Source Application (COD System) shall build a unique file for every Transaction Type (OB/PY vs RF) and Program Type (DL, PELL, IASG, TEACH).</p>
Source Interface:	eduptcftp01.ed.gov

<p>Interface Usage Frequency:</p>	<p>The interface is used on-demand and shall be initiated every time a user successfully stages a G5 Adjustment File for send via COD Web.</p> <p>Frequency of file sweeps shall occur on an hourly interval 24 hours a day, excluding federal holidays. File transmissions shall occur if records are picked up during the file sweep. If no records are found no transmission will occur.</p> <p>FMS shall accept and forward inbound files with any new manual adjustment records to G5 every hour.</p> <p>G5 shall accept and process inbound files with any new manual adjustment records every hour.</p> <p>If the processing day is the last day of the Government Fiscal Year, then the frequency of file transmissions from COD shall be increased to occur multiple times per hour every hour of the day, however, FMS and G5 shall be responsible for processing all on demand transmissions that occur during this time frame. FSA’s Internal Control Division will be responsible for notifying FMS and G5 for on-demand scheduling.</p>
<p>Interface Usage Volume:</p>	<p>Current usage yields approx. 100 messages annually</p> <p>Estimated to yield approx. 100 messages annually</p>

2.1 Interface Overview

Figure 1: High Level Flow Diagram

2.2 Interface Flow Diagram Description

The following procedure outlines the path of the message through the new COD-G5 interface.

1. User successfully logs into their account on the COD Web website.
2. User navigates the COD Web site and creates a G5 adjustment record for a particular school/program/award year.
3. User confirms and submits the G5 Adjustment record to the COD System for processing.
4. G5 Adjustment records are staged on the COD System for send processing.
5. G5 Adjustment records are loaded into an outbound send file(s).

6. After the next sweep, the staged outbound file(s) is sent out of the COD System to the FMS SAIG mailbox with the appropriate message class via the ESB.
 - Message Class Definitions:
 - i. Production Environment = CODG5POP
 - ii. IST Environment = CODG5TOP
7. ESB shall strip the SAIG Header and Trailer records from each file and transmits the file to FMS.
8. FMS forwards the files to G5.
9. G5 accepts and processes file.
10. G5 creates and sends G5 acknowledgment through standard G5-FMS-COD processing. Refer to the *FMS to COD ICD (LMTD)* for all relevant interface protocol for this process.

3. System Responsibilities

The following describes the specific responsibilities of each system involved in this interface:

System Responsibilities
COD Data Responsibilities
COD Web site shall allow users to log into their COD Web accounts with their COD Web site username and password.
Authorized users shall create G5 Adjustment records for processing.
COD web shall stage newly created G5 Adjustment records on the COD System.
The COD System shall sweep all staged (unprocessed) records and load into an outbound file every hour.
The COD System shall send the outbound file to FMS via SAIG.
SAIG Data Routing Responsibilities
SAIG shall host the mailbox where the G5 Adjustment Files will be stored prior to FMS processing.
FMS Data Routing Responsibilities
FMS shall provide an intermediate link between COD and G5 for the G5 Adjustment file.
ESB File Handling Responsibilities
ESB shall strip the transmitted files of all SAIG header and trailer records.

G5 Data Responsibilities
G5 shall receive the G5 Adjustment file(s) from FMS.
G5 shall extract the records in the order that they are sent and load all adjustment funding records into the G5 system.

4. System Identification

The following details the identifying information for each system involved in this interface:

System Identification Information	
Type	Location
COD	
Production System Location	Columbus, GA
Contracting Organization	Accenture/AWS
Developer Location	Washington, DC
G5	
Production System Location	Plano, TX
Contracting Organization	QSSI
Developer Location	Washington, DC
FMS System Additional Information	
Production System Location	Plano, TX
Contracting Organization	DELL Systems
Developer Location	Washington, DC
SAIG System Additional Information	
Production System Location	Federal Student Aid Virtual Data Center

Contracting Organization	Collabralink
Developer Location	McLean, VA/ Iowa City, IA

5. Component Identification

The following details the hardware and software components of each system involved in this interface:

System Hardware/Software Components			
Type	Vendor	Product Name	Version
COD			
Production Platform	HP	Midrange Server	DL580
Operating System	Red Hat	Red Hat Enterprise Linux Server	6
Transmission Protocol	IBM	WebSphere MQ	7.5.0.5
G5			
Production Platform	Dell	Poweredge Series	Poweredge7 and Poweredge9
Operating System	Red Hat	Red Hat Enterprise Linux server	6.8 and 7.2
Transmission Protocol	OpenSSL	OpenSSH SFTP	OpenSSH_6.0p1, OpenSSL 1.0.2j
FMS			

Production Platform	Dell	Linux	R12.2.4
Operating System	Dell	Linux	Redhat Enterprise 5
DBMS	Oracle	Oracle Financials R12	Oracle Database 11g Enterprise Edition Release 11.2.0.4.0 - 64bit Production
Transmission Protocol	IBM	WebSphere MQ	6.0
SAIG			
Production Platform	VDC	Linux VM	ESXi 6.0
Operating System	Red Hat	Red Hat Linux	5.11
Database	Oracle	Enterprise DB	11.2.0.4
Transmission Protocol	bTrade	TDN Transaction Delivery eNgine	3.2

6. Interface Assumptions and Dependencies

Interface Assumptions
Operational Assumptions
The SAIG architecture is configured to support the transfer of data from COD to G5 via FMS.
Job failures including errors generated by the SAIG adapters will be captured by Operations.

Functional Assumptions
COD will schedule and send records to G5 via FMS in an outbound file on a pre-scheduled basis.
COD will perform record level validation to ensure outbound records are formatted correctly.
COD will perform file level validation to ensure outbound files are formatted correctly.
G5 will not create or send a response file on receipt of the original response message from COD.
G5 will perform record level validation to ensure inbound records are formatted correctly.
G5 will perform file level validation to ensure inbound files are formatted correctly.
All G5 Acknowledgements for G5 Adjustment files shall be sent to FMS and then to COD through the existing G5-FMS-COD interface.
No changes shall be made to the processing of G5 acknowledgements by COD, FMS or G5.
FMS will forward G5 Adjustment files without conducting any formal processing.
The ACCS line in the G5 Adjustment file will not be modified during the file transfer process.
COD will process and send files in the order that they are generated.
If COD fails to run the sweep on time, a catch up file will be sent with the following sweep.
ESB will remove the SAIG header and trailer records from all files transmitted to G5.

Interface Dependencies
COD is dependent on the network managed by AWS
G5 is dependent on the network managed by Dell.
FMS is dependent on the network managed by Dell.

7. Business Rules and Logic

The following section outlines the business rules, validation logic and record layouts for the messages to be used within the new COD-G5 interface.

7.1 Business Rules

Field format	Business Rule
Alphanumeric	All characters will be left justified and padded with spaces. Unless otherwise noted in the file specification section, blank/null optional fields will be padded with spaces.
Numeric/timestamp/date	All characters will be left padded with '0'. If it is blank/null, the length for the location of the field will be padded with '0'.
All fields	If the length of the source exceeds the maximum length of the data element, the source will be truncated according to business rules per field.

7.2 File Naming Convention

Transaction Type	Program Type	File Name
Payment	Direct Loan	G5.FUND.ADJ.DL.OBPY.yyyyMMddHHmmss.Rxxxxxx
Obligation/Payment	PELL	G5.FUND.ADJ.PL.OBPY.yyyyMMddHHmmss.Rxxxxxx
Obligation/Payment	IASG	G5.FUND.ADJ.AI.OBPY.yyyyMMddHHmmss.Rxxxxxx
Payment	TEACH	G5.FUND.ADJ.TH.OBPY.yyyyMMddHHmmss.Rxxxxxx

Transaction Type	Program Type	File Name
Refund	Direct Loan	G5.FUND.ADJ.DL.RF.yyyyMMddHHmmss.Rxxxxxx
Refund	PELL	G5.FUND.ADJ.PL.RF.yyyyMMddHHmmss.Rxxxxxx
Refund	IASG	G5.FUND.ADJ.AI.RF.yyyyMMddHHmmss.Rxxxxxx
Refund	TEACH	G5.FUND.ADJ.TH.RF.yyyyMMddHHmmss.Rxxxxxx

7.3 Validation Logic

Type	Description
File Types	<p>The COD System shall create separate file types based on the record types created to send.</p> <p>Each program type shall be sent to FMS/G5 in a unique file.</p> <p>Obligation (OB) and Payment (PY) Record types shall be sent to FMS/G5 in a unique file.</p> <p>Refund (RF) records shall be sent to FMS/G5 in a unique file.</p> <p>Therefore, all possible File Types shall be:</p> <ol style="list-style-type: none"> 1. PY – Direct Loan 2. OB/PY – PELL 3. OB/PY – IASG 4. PY – TEACH 5. RF – Direct Loan 6. RF – PELL 7. RF – IASG 8. RF – TEACH
Record Validation	<p>The record types shall be organized within each file in the following order:</p> <ol style="list-style-type: none"> 1. G5 Header Record (one record per file): <ul style="list-style-type: none"> • Run Date should be a date field in YYYYMMDD format • System ID should be one of the valid values: BB, DIRECTLOAN, TEACH • The Batch Number, Run Date, Run Time and the System ID fields will be used to verify whether a file has already been processed. 2. Transaction Record (one or many records per file): <ul style="list-style-type: none"> • Transaction Date should be a date field in YYYYMMDD format

Type	Description
	<ul style="list-style-type: none"> • CFDA Number, CFDA Subprogram ID, Subprogram Fiscal Year should already exist in G5 • Award Type should be one of these PL, DL, TH • Effective Date should be a date field in YYYYMMDD format • Project Start Date should be a date field in YYYYMMDD format • Project End Date should be a date field in YYYYMMDD format <p>3. G5 Trailer Record (one record per file):</p> <ul style="list-style-type: none"> • "Total Records" field value should match the total records in the file, excluding Header, Trailer, and Z-Transmission records • "Total Amount" field value should match the sum of the absolute values of the individual transaction amounts. <p>4. G5 Z-Transmission Record (one record per file):</p> <ul style="list-style-type: none"> • "Total Records" field value should match the sum of all records in the file, including Header, Trailer & Transmission. • "Total Amount" field's value should match the sum of the absolute values of the individual transaction amounts. <p>Transaction amount should be numeric</p>
Exception Processing	Moves the file to the error directory and sends an email notification to G5 Feeder distribution list
Processing Logic	Validates the Header, Trailer, Z-Transmission, and Transaction records. G5 processes the file on successful validations.

7.4 Record Layout

SAIG File Header Record					
Start	End	Length	Type	Description	Valid Value
1	5	5	A/N	SAIG Batch Header Identification Number	Constant "O*N05"
6	12	7	A/N	Header Destination Number	'TG79363' FMS TG Mailbox
13	19	7	A	Unused	Constant spaces
20	24	5	A/N	Header Class Label	Constant: ",CLS="
25	32	8	A/N	Header Message Class	Format = CODG5POP (Production), or CODG5TOP (IST)
33	36	4	A/N	Header XXX Label	Constant: ",XXX"
37	41	5	A/N	Text used to identify the next field in a Batch ID	Constant: ",BAT="
42	58	17	A/N	Header Batch label	Batch ID: "CCYYMMDDhhmmssff"
59	64	6	A/N	Header Batch ID	Constant: ",NCT ="
65	70	6	N	Header NCNT Label	"000000"

G5 Header & Trailer Records						
Field Name	Field Number	Field Position	Field Type	Field Size	Required Field	Description
Record Type	1	1	A	1	R	Constant: 'H' - For Header record. Constant: 'T' - For Trailer record
Batch Number	2	2-4	A/N	3	R	The Batch Number, Run Date and the System ID fields will be used by G5 to verify whether a file has already been processed.
System ID	3	5-14	A	10	R	System ID should be one of the valid values based on Program Type: Pell/IASG - = BB Direct Loan= DIRECTLOAN Teach = TEACH
Run Date	4	15-22	N	8	R	Date field. Format YYYYMMDD
Run Time	5	23-28	N	6	R	System time in HHMMSS format
Total Records	6	29-34	A/N	6	O	Header: Blank Trailer: The sum of all records in the file
Total Amount	7	35-51	A/N	17, 2	O	Header: Blank Trailer: Total amount of the transactions in the output file. This field is the sum of the absolute values of the individual transaction amounts.

SAIG File Header Record					
Start	End	Length	Type	Description	Valid Value
		70		Total Record Length	

G5 Transaction Records – OB and PY						
Field Name	Field Number	Field Position	Field Type	Field Size	Required Field	Description
Transaction Type	1	1-2	A	2	R	"OB" – Obligations "PY" – Payments
Transaction Date	2	3-10	N	8	R	Date field. Format YYYYMMDD.
PO Indicator	3	11-11	A	1	R	PO Code: First part of G5 Award Number Constant: "P"
CFDA Number	4	12-14	N	3	R	CFDA Number: Second part of G5 Award Number Valid Values are as follows: PL = 063 IASG = 408 DL = 268 TH = 379
CFDA Subprogram ID	5	15-18	A	4	R	Subprogram ID letter (currently only one letter used in award numbers: should be left justified and padded with spaces); third part of G5 Award Number Valid Values are as follows: PL = 'P ' or 'Q ' (for ACA transactions) IASG = 'A ' DL = 'K ' TH = 'T '
Subprogram Fiscal Year	6	19-22	N	4	R	Selected Award Year. For Pell/IASG, this is

G5 Transaction Records – OB and PY						
Field Name	Field Number	Field Position	Field Type	Field Size	Required Field	Description
						<p>the leading award year. e.g., For the 2022-2023 Award Year, use 2022.</p> <p>For DL/TEACH, this is the trailing award year. e.g., For the 2022-2023 Award Year, use 2023.</p>
Award ID	7	23-26	N	4	R	Award ID number; right justify within the output field; zero fill; fifth part of G5 Award Number. This field is equivalent to the COD G5 Sequence Number.
Fiscal Year	8	27-30	N	4	R	Funding Fiscal Year: First part of G5 account code
Object Class	9	31-35	A	5	R	Object Class Code: Fifth part of G5 account code
Organization Code	10	36-43	A	8	R	Organization Code: Third part of G5 account code. Field should be right padded with '0's to fill out required length of 8 spaces.
Limitation Code	11	44-46	A	3	R	Limitation Code: Forth part of G5 account code. A part of the three different categories which a former Project Code

G5 Transaction Records – OB and PY						
Field Name	Field Number	Field Position	Field Type	Field Size	Required Field	Description
						which was broken down into.
Activity Code	12	47-49	A	3	R	Activity Code: Sixth part of G5 account code. A part of the three different categories which a former Project Code which was broken down into.
CFDA Code	13	50-52	N	3	R	CFDA Code: Seventh part of G5 account code. A part of the three different categories which a former Project Code which was broken down into. Valid Values are as follows: PL = 063 IASG = 408 DL = 268 TH = 379
Reverse Code	14	53	N	1	R	Code used to indicated the type of transaction action: 1 - Indicates a normal debit/credit 2 - Indicates a reversed debit/credit action
Amount	15	54-67	N	14	R	Dollar amount of the transaction. Right two positions are cents. Field is right justified, zero filled. The

G5 Transaction Records – OB and PY						
Field Name	Field Number	Field Position	Field Type	Field Size	Required Field	Description
						decimal position is implied.
Grantee DUNS Number	16	68-78	A/N	11	O	Unique DUNS for the Grantee.
Grantee DUNS Type Code	17	79	A/N	1	O	DUNS type code for the grantee. 1 - Organization
Effective Date	18	80-87	N	8	R	The effective date of the transaction in YYYYMMDD format. (usually an obligation, but payments can be future dated as well)
Payee DUNS Number	19	88-98	A/N	11	O	Set to blank.
Payee DUNS Type Code	20	99	A/N	1	O	Set to blank.
Award Type	21	100-101	A	2	R	Valid Values include: IASG = IG Pell = PL Direct Loan = DL Teach = TH
Project Start Date	22	102-109	N	8	R	The Project Start Date in YYYYMMDD format. This field will be set to January First of the Subprogram Fiscal Year.
Project End Date	23	110-117	A/N	8	O	The Project End Date in YYYYMMDD format. This will be set to the Latest Drawdown Date,

G5 Transaction Records – OB and PY						
Field Name	Field Number	Field Position	Field Type	Field Size	Required Field	Description
						based on Program and Award Year.
Budget Fiscal Year	24	118-121	N	4	R	Budget Fiscal Year: Second part of G5 account code.
Cohort Year	25	122-125	N	4	R	Cohort Year: Eighth part of G5 accounting code
Sector	26	126	A	1	R	Sector: Ninth part of G5 account code. Constant – “N”
Payment Source	27	127-128	A	2	O	Payment source is set to LO for DL, TH. Blank for IASG, Pell
FSA Tran ID	28	129-146	A	18	R	COD - G5 Transaction ID The First two digits of the FSA Tran ID will be as follows: IASG = IG Pell = PL Direct Loan = DL TEACH = TH
Grantee UEI	29	147-158	A/N	12	R	Unique entity identifier for the Grantee
Grantee UEI Type Code	30	159	A/N	1	R	UEI type code for the grantee. 1 – Organization 2 – Individual
Payee UEI	31	160-171	A/N	12	O	Set to blank.
Payee UEI Type Code	32	172	A/N	1	O	Set to blank.

G5 Transaction Records – Refunds						
Field Name	Field Number	Field Position	Field Type	Field Size	Required Field	Description
Transaction Type	1	1-2	A	2	R	"RF" - Refund transaction
Transaction Date	2	3-10	N	8	R	Date field. Format YYYYMMDD.
PO Indicator	3	11	A	1	R	PO Code: First part of G5 Award Number Constant: "P"
CFDA Number	4	12-14	N	3	R	CFDA Number: Second part of G5 Award Number Valid Values are as follows: PL = 063 IASG = 408 DL = 268 TH = 379
CFDA Subprogram ID	5	15-18	A	4	R	Subprogram ID letter (currently only one letter used in award numbers: should be left justified and padded with spaces); third part of G5 Award Number PL = 'P ' or 'Q ' (for ACA transactions) IASG = 'A ' DL = 'K ' TH = 'T '
Subprogram Fiscal Year	6	19-22	N	4	R	Selected Award Year. For DL/TEACH utilize leading award year. For Pell/IASG use trailing award year.
Award ID	7	23-26	N	4	R	Award ID number; right justify within the output field; zero fill; fifth part of G5 Award Number

G5 Transaction Records – Refunds						
Field Name	Field Number	Field Position	Field Type	Field Size	Required Field	Description
Fiscal Year	8	27-30	N	4	R	Funding Fiscal Year: First part of G5 account code
Object Class	9	31-35	A	5	R	Object Class Code: Fifth part of G5 account code
Organization Code	10	36-43	A	8	R	Organization Code: Third part of G5 account code. Field should be right padded with '0's to fill out required length of 8 spaces.
Limitation Code	11	44-46	A	3	R	Limitation Code: Forth part of G5 account code. A part of the three different categories which a former Project Code which was broken down into.
Activity Code	12	47-49	A	3	R	Activity Code: Sixth part of G5 account code. A part of the three different categories which a former Project Code which was broken down into.
CFDA Code	13	50-52	N	3	R	CFDA Code: Seventh part of G5 account code. A part of the three different categories which a former Project Code which was broken down into. Valid Values are as follows: PL = 063 IASG = 408 DL = 268 TH = 379

G5 Transaction Records – Refunds						
Field Name	Field Number	Field Position	Field Type	Field Size	Required Field	Description
Reverse Code	14	53	N	1	R	Code used to indicated the type of transaction action: 1 - Indicates a normal debit/credit 2 - Indicates a reversed debit/credit action
Amount	15	54-67	N	14	R	Dollar amount of the transaction. Right two positions are cents. Field is right justified, zero filled. The decimal potion is implied.
Grantee DUNS Number	16	68-78	N	11	O	Unique DUNS for the Grantee.
Grantee DUNS Type Code	17	79	N	1	O	Constant: 1 - Organization
Effective Date	18	80-87	N	8	R	The effective date of the transaction in YYYYMMDD format. (usually an obligation, but payments can be future dated as well)
Payee DUNS Number	19	88-98	A/N	11	O	Unique DUNS for the payee Leave blank
Payee DUNS Type Code	20	99	A/N	1	O	DUNS type code for the payee Leave blank
Award Type	21	100-101	A	2	R	Valid Values include: IASG = IG Pell = PL Direct Loan = DL Teach = TH

G5 Transaction Records – Refunds						
Field Name	Field Number	Field Position	Field Type	Field Size	Required Field	Description
Project Start Date	22	102-109	N	8	R	The Project Start Date in YYYYMMDD format. This field will be set to January First of the Subprogram Fiscal Year.
Project End Date	23	110-117	N	8	O	The Project End Date in YYYYMMDD format. This will be set to the Latest Drawdown Date, based on Program and Award Year.
Office Finance Code	24	118-129	A	12	R	Constant: "DSLPCOLL7" if award type = DL, TH if transaction type = RF. Otherwise, it will be blank.
Cohort Year	25	130-133	N	4	R	Cohort Year: Eighth part of G5 accounting code. The previous Function Code.
Schedule Number	26	134-139	A/N	6	R	SF215 Schedule Number.
Budget Fiscal Year	27	140-143	N	4	R	Budget Fiscal Year: Second part of G5 account code.
Sector	28	144	A	1	R	Sector: Ninth part of G5 account code. Constant – "N"
FSA Tran ID	29	145-162	A	18	R	COD - G5 Transaction ID The First two digits of the FSA Tran ID will be as follows: IASG = IG Pell = PL Direct Loan = DL TEACH = TH

G5 Transaction Records – Refunds						
Field Name	Field Number	Field Position	Field Type	Field Size	Required Field	Description
Grantee UEI	30	163-174	A/N	12	R	Unique entity identifier for the Grantee
Grantee UEI Type Code	31	175	A/N	1	R	UEI type code for the grantee. 1 – Organization 2 – Individual
Payee UEI	32	176-187	A/N	12	O	Set to blank.
Payee UEI Type Code	33	188	A/N	1	O	Set to blank.

G5 Z-Transmission Records						
Field Name	Field Number	Field Position	Field Type	Field Size	Required Field	Description
Record Type	1	1	A	1	R	Constant: 'Z' – For Transmission Record.
Interface Type	2	2-11	A	10	R	Constant: 'TRANSTRAIL'.
Run Date	3	12-19	N	8	R	The System Date in YYYYMMDD format. Should be the same date as is entered in the Header record.
Run Time	4	20-25	N	6	R	System time in HHMMSS format. Should be the same time as is entered in the Header record.
Total Records	5	26-31	N	6	R	The sum of all records in the file including Header, Trailer & Transmission.
Total Amount	6	32-48	N	17, 2	R	Total amount of the transactions in the output file. This field is the sum of the absolute values of the individual transaction amounts.

SAIG File Trailer Record					
Start	End	Length	Type	Description	Valid Value
1	5	5	A/N	SAIG Batch Header Identification Number	Constant "O*N95"
6	12	7	A/N	Trailer Destination Number	'TG79363' FMS TG Mailbox
13	19	7	A	Unused	Constant spaces

SAIG File Trailer Record					
Start	End	Length	Type	Description	Valid Value
20	24	5	A/N	Header Class Label	Constant: “,CLS= ”
25	32	8	A/N	Trailer Message Class	Format = CODG5POP (Production), or CODG5TOP (IST)
33	36	4	A/N	Trailer XXX Label	Constant: “,XXX”
37	41	5	A/N	Text used to identify the next field is a Batch ID	Constant: “,BAT= ”
42	58	17	A/N	Trailer Batch label	Batch ID: “CCYYMMDDhhmmssff”
59	64	6	A/N	Trailer Batch ID	Constant: “,NCT = ”
65	70	6	N	Trailer NCNT Label	“000000”
		70		Total Record Length	

