



F E D E R A L
S T U D E N T A I D

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FSA Modernization Partner

NSLDS II Reengineering
System Interface Detail Design:
Ombudsman
Request/Results and Error File Interfaces
I-OMBD-1

Version 1.0

November 08, 2002

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Document Control

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1.0	Initial Issue	11/08/2002	Troy Edwards

1 Ombudsman

The Ombudsman system will send a request for financial aid information for specific borrowers in flat file format to NSLDS II weekly. NSLDS II will validate the data received, match the incoming data against NSLDS II data, retrieve student aid data for valid students, and produce an error file for invalid students. From one incoming Ombudsman Request File, NSLDS II could send back either a Results file or an error file or both.

NSLDS II will interface with the Ombudsman system through the EAI BUS. This interface supports the Ombudsman's public service activities.

The Ombudsman interfaces include:

- Ombudsman Request File (**Section 1.2**)
- Ombudsman Results and Error Files (**Section 1.3**)

1.1 Ombudsman Interface

1.1.1 NSLDS II

Item	Description
Production Platform (Vendor/Product Name/Version)	IBM/ Cluster 1600 Server/ 4 p-Series 660 Model 6M1 4 FastT500 Arrays
Operating System (Vendor/Product Name/Version)	Unix/AIX/V 5.1 Parallel Systems Support Program (PSSP)
DBMS (Vendor/Product Name/Version)	IBM/DB2 Universal Database (UDB)/Enterprise Extended v. 7.2
Transmission Protocol	TCP/IP
Production System IP Address	TBD
Production System Location	Meriden, CT
Contracting Organization	Accenture - Modernization Partner
Developer Location	Modernization Partner Offices - Washington DC

1.1.2 Ombudsman

Item	Description
Production Platform (Vendor/Product Name/Version)	IBM/ IBM Mainframe
Operating System (Vendor/Product Name/Version)	IBM/ OS 390
DBMS	IDMS Database

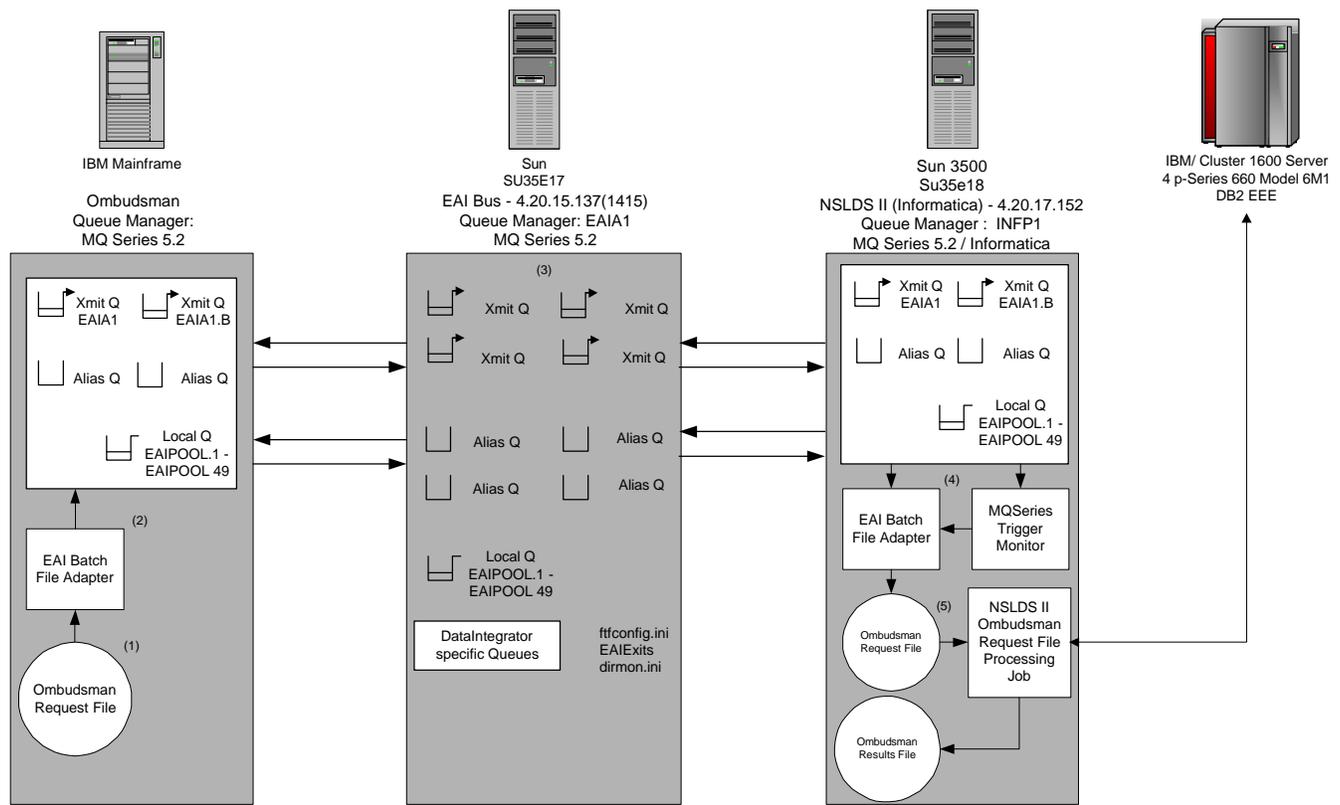
<i>(Vendor/Product Name/Version)</i>	
Transmission Protocol	TCP/IP
Production System IP Address	4.20.3.245
Production System Location	Meriden, CT
Contracting Organization	NA
Developer Location	NA

1.2 Ombudsman Request File Interface

1.2.1 Interface Control Specifications

Interface Name:	Ombudsman Request File Interface
Interface Type/Direction:	Unidirectional, Batch Type
Interface Short Description:	<p>This section defines the processes utilized by NSLDS II to receive and process the Ombudsman Request File via the EAI BUS.</p> <p>The Ombudsman system will send a request for financial aid information for specific borrowers in flat file format to NSLDS II weekly. NSLDS II (Informatica) will process the request and send back a results file also in flat file format. If no match is found for data on the requested student, and error file is sent back to the Ombudsman system in flat file format over the EAI BUS.</p>
Requesting Application: or Source Application:	Ombudsman is the source of the Ombudsman Request file
Responding Application: or Destination Application:	NSLDS II receives the Ombudsman Request file and responds with the Ombudsman Results File and/or Error File
Detailed Technical Requirement References:	5.062
Interface Usage Frequency:	Weekly
Interface Usage Volume:	Average of 333 records per file
Output Media:	Flat File in EBCDIC Format
Transmission Mechanism:	EAI BUS

1.2.2 Interface Flow



1.2.3 Interface Flow Description

1. The Ombudsman system will create the Ombudsman Request file
2. The EAI Batch File Adapter will move the file to the EAI BUS
3. The EAI BUS will route the file to the NSLDS II server
4. The EAI Batch File Adapter will move the file to the NSLDS II server
5. The NSLDS II (Informatica) Ombudsman Request interface program will process the Ombudsman Request and create the Ombudsman Results File and Error File

1.2.4 Source System Functional Specifications

#	Responsibility
1	Ombudsman will extract the Ombudsman Request data and save it as a flat file
2	The data extracted will be laid out as in section 1.2.8 Each record will consist of: One or more Detail Records
3	An EAI batch file adapter will be supplied to initiate the file transfer from Ombudsman to NSLDS II
4	File data elements are defined as character, numeric, or date fields, where: <ul style="list-style-type: none"> • Character fields may contain letters, numbers, or blanks.

	<ul style="list-style-type: none"> • Numeric fields must only contain numbers. • Date fields must contain eight digits, be valid dates, and appear in the format CCYYMMDD (e.g., 19970131), where: <ul style="list-style-type: none"> – CC = 2 digits for century – YY = 2 digits for year – MM = 2 digits for month – DD = 2 digits for day <p>The following default values are used in the following types of fields:</p> <ul style="list-style-type: none"> • Character fields—must be filled with spaces. • Numeric fields—must be filled with zeroes. • Date fields—must be filled with zeroes.
5	<p>Ombudsman will provide the EAI adaptor file transfer utility with the following input parameters: Input File Name - TBD</p>

1.2.5 Destination System Functional Specifications

#	Responsibility
1	The EAI BUS will deliver the Ombudsman Request file to the NSLDS II (Informatica) server
2	The EAI Adaptor takes the following information as input: Queue manager name - TBD Queue name - TBD Sync point counter - TBD Output file name - TBD
3	The MQ Series Trigger Monitor may trigger the Ombudsman Request processing job

1.2.6 Interface Assumptions

#	Assumption
1	MQ Series Queue Manager is installed / configured for the NSLDS II / Ombudsman environment
2	The EAI architecture will be configured to support the transfer of data from Ombudsman to NSLDS II

1.2.7 Error Messages

Code	Message
NA	NA

1.2.8 File Layout

Detail Record Layout

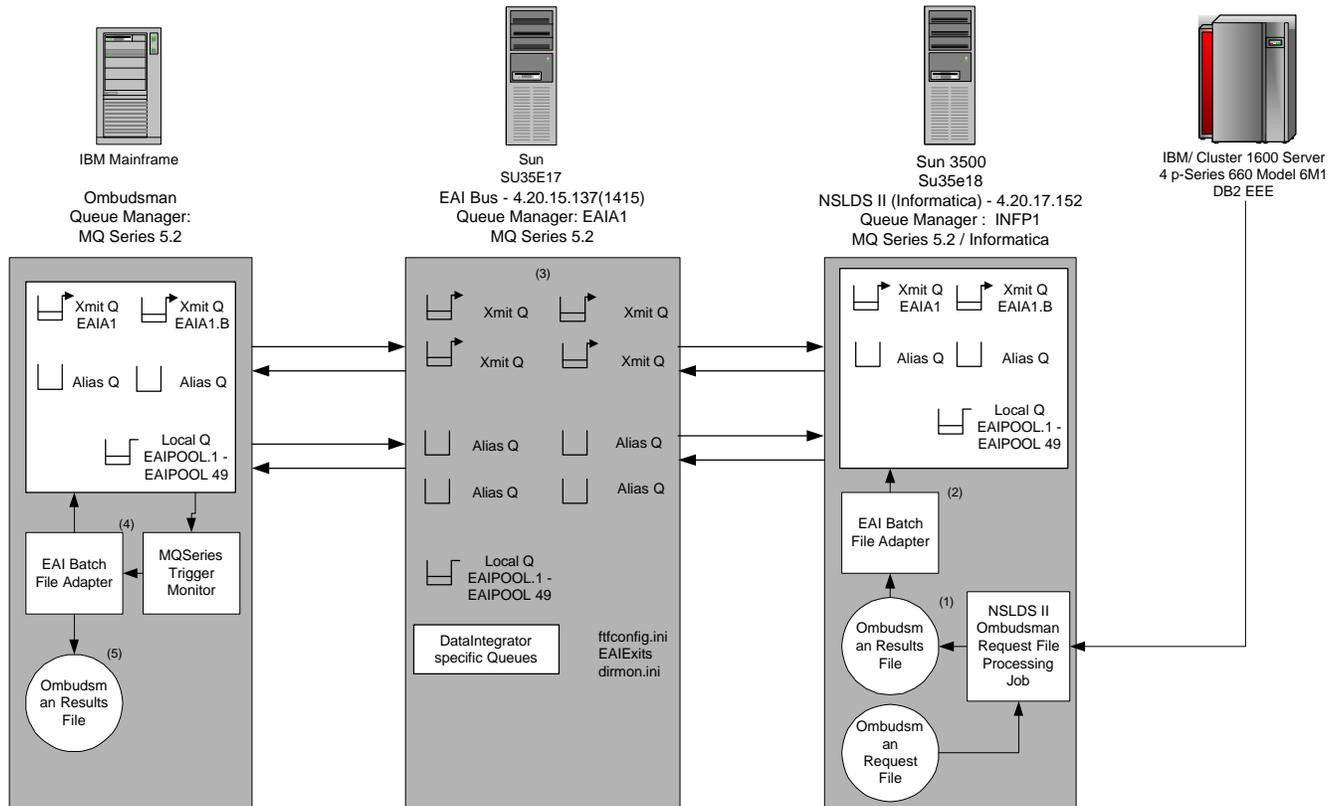
Data Element	Field Position	Length	Type	Description	Edits	Mapping
Ombudsm an SSN	1-9	9	Char.	SSN provided by Ombudsman Data Feed	Must be found in database. Validate in STU/CURR_SSN	NA
Ombudsm an Name	10-29	20	Char.	First Name provided by Ombudsman Data Feed	Must be found in database Validate in STU/CURR_FST	NA
Ombudsm an DOB	30-37	8	Char.	DOB provided by Ombudsman Data Feed	Must be found in database Validate in STU/DOB	NA
Ombudsm an Case Number	38-47	10	Char	Case number provided by Ombudsman Data Feed	NA	NA
Filler	48-80	33	Char.	Filler	NA	NA

1.3 Ombudsman Results and Error File Interface

1.3.1 Interface Control Specifications

Interface Name:	Ombudsman Results File Interface
Interface Type/Direction:	Unidirectional, Batch Type
Interface Short Description:	<p>This section defines the processes utilized by NSLDS II to produce and send the Ombudsman Results File to the Ombudsman system via the EAI BUS.</p> <p>The Ombudsman system will send a request for financial aid information for specific borrowers in flat file format to NSLDS II weekly. NSLDS II (Informatica) will process the request and send back a results file also in flat file format. If no match is found for data on the requested student, and error file is sent back to the Ombudsman system in flat file format over the EAI BUS.</p>
Requesting Application: or Source Application:	NSLDS II is the source of the Ombudsman Results and/or Error File
Responding Application: or Destination Application:	Ombudsman receives the Ombudsman Results and/or Error File
Detailed Technical Requirement References:	5.063
Interface Usage Frequency:	Weekly
Interface Usage Volume:	266 records average per file
Output Media:	Flat File in EBCDIC Format
Transmission Mechanism:	EAI BUS

1.3.2 Interface Flow



1.3.3 Interface Flow Description

1. The NSLDS II (Informatica) Ombudsman Data job will process the Ombudsman Request file and create the Ombudsman Results File and Error File (if required)
2. The EAI Batch File Adapter will move the file to the EAI BUS
3. The EAI BUS will route the file to the Ombudsman server
4. The EAI Batch File Adapter will move the file to the Ombudsman server
5. The Ombudsman server will process the Ombudsman Results file as necessary

1.3.4 Source System Functional Specifications

#	Responsibility
1	NSLDS II will process the Ombudsman Request file and will produce an Ombudsman Results File and Error File (if required)
2	The data extracted will be laid out as in section 1.3.8 Each record will consist of: <i>Results File</i> One or more Detail Records <i>Error File</i> One or more Error Records
3	An EAI batch file adapter will be supplied to initiate the file transfer from NSLDS II to

	Ombudsman
5	NSLDS II will provide the EAI adaptor file transfer utility with the following input parameters: Input File Name - TBD

1.3.5 Destination System Functional Specifications

#	Responsibility
1	The EAI BUS will deliver the Ombudsman Results File and/or Error File to the Ombudsman server
2	The EAI Adaptor takes the following information as input: Queue manager name - TBD Queue name - TBD Sync point counter - TBD Output file name - TBD

1.3.6 Interface Assumptions

#	Assumption
1	MQ Series Queue Manager is installed / configured for the NSLDS II / Ombudsman environment
2	The EAI architecture will be configured to support the transfer of data from NSLDS II to Ombudsman

1.3.7 Error Messages

Code	Message
NA	NA

1.3.8 File Layout

Detail Record Layout

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Ombudsm an SSN	1-9	9	Char.	SSN provided by Ombudsman Data Feed	Copied from Input Record	NA
Ombudsm an Name	10-29	20	Char.	First Name provided by Ombudsman Data Feed	Copied from Input Record	NA
Ombudsm an DOB	30-37	8	Char.	DOB provided by Ombudsman Data Feed	Copied from Input Record	NA
Ombudsm an Case Number	38-47	10	Char	Case number provided by Ombudsman Data Feed	Copied from Input Record	NA
NSLDS SSN	48-56	9	Char	NSLDS Current SSN	NA	STU/CURR_SSN
NSLDS First Name	57-68	12	Char	NSLDS Current First Name	NA	STU/CURR_FST
NSLDS Last Name	69-103	35	Char	NSLDS Current Last Name	NA	STU/CURR_LST
NSLDS DOB	104-113	8	Date	NSLDS DOB	NA	STU/DOB

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Loan Sequence Number	114-117	4	Char	A sequence number assigned to each loan to uniquely identify a loan. NOTE: It is possible for two different students to have the same SSN.	NA	LOAN/SEQ_NO
Loan Type	118-121	4	Char	An indicator for a specific loan program.	NA	LOAN/LOAN_T YPE
Loan Type Description	122-147	26	Char	Description of loan program.	NA	LOAN_TYPE_GP /DESCN
Guaranty Date	148-155	8	Date	This is normally the date the loan was established. FFEL = the guaranty date Perkins = date of first disbursement DL = date of origination	NA	LOAN/DT
Guaranty Amount	156-161	6	Num	Dollar amount of a campus-based loan or a guaranteed loan.	NA	LOAN/AMT
Period Begin Date	162-169	8	Date	Date when classes are to begin, as certified by the school on the aid application, for the specific period covered by aid.	NA	LOAN/PER_BE G_DT

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Period End Date	170-177	8	Date	Date when classes are to end, as certified by the school on the aid application, for the specific period covered by aid.	NA	LOAN/PER_EN D_DT
Outstanding Principal Balance	178-183	6	Num	The dollar value of the declining balance due (principle only) on a Perkins Loan, FFEL or FDSL Program.	NA	LOAN/OUT_PRI N_BAL
Outstanding Principal Balance Date	184-191	8	Date	The date on which the value in the outstanding principal balance field was updated or verified.	NA	LOAN/OUT_PRI N_BAL_DT
Outstanding Interest Balance	192-197	6	Num	The dollar value of the declining accrued interest balance.	NA	LOAN/OUT_IN T/BAL
Outstanding Interest Balance Date	198-205	8	Date	The date on which the current outstanding accrued interest balance status was update or verified.	NA	LOAN/OUT_IN T_BAL_DT
Total Disbursed	206-211	6	Num	Total disbursement amount for a loan.	NA	LOAN/TOT_DIS
Current Disbursement Date	212-219	8	Date	The date of the latest disbursement of a loan.	NA	LOAN/CURR_D IS_DT

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Total Cancelled	220-225	6	Num	The total cancellation amount for a loan if that loan has been cancelled.	NA	LOAN/TOT_CAN
Current Cancellation Date	226-233	8	Date	The latest cancellation date for a loan if that loan has been cancelled.	NA	LOAN/CURR_CAN_DT
OPEID	234-241	8	Char	Code indicating a unique school/location.	Includes School Branch Code	SCH/CODE SCH_BR/CODE
School Location Name	242-306	65	Char	The name of a specific location of a school where aid was received.	NA	SCH/NM
Current Guaranty Agency Code	307-309	3	Char	The latest Guaranty Agency Code for a loan if the loan has a guarantor.	NA	GA/CODE
Current Guaranty Agency Name	310-349	40	Char	Name of the latest Guaranty Agency for a loan if the loan has a guarantor.	NA	GA/NM
GA Responsible Begin Date	350-357	8	Date	Date when GA became responsible for a particular loan.	NA	GA_AGG/RPT_BEG_DT
GA Responsible End Date	358-365	8	Date	End date when GA was responsible for a particular loan.	NA	GA_AGG/RPT_EBD_DT

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Current Lender Code	366-371	6	Char	The latest Lender Code for a loan if that loan was funded by a lender.	NA	LEN_BR_HOL/LEN_CODE
Current Lender Name	372-411	40	Char	Name of the latest Lender for a loan if that loan was funded by a lender.	NA	LEN_BR_HOL/NM
Lender Responsible Begin Date	412-419	8	Date	Date when Lender became responsible for a particular loan.	NA	LEN_BR_HOL/RESP_BEG_DT
Lender Responsible End Date	420-427	8	Date	End date when Lender was responsible for a particular loan.	NA	LEN_BR_HOL/RESP_END_DT
Current Lender Servicer Code	428-433	6	Char	The latest Lender Servicer Code for a loan if that loan has a lender and that lender has a servicer.	NA	LEN_BR_HOL/SVR/SVR_CODE
Current Lender Servicer Name	434-473	40	Char	Name of the latest Lender Servicer for a loan if that loan was funded by a lender.	NA	LEN_BR_SVR/NM
Lender Servicer Responsible Begin Date	474-481	8	Date	Date when Lender Servicer became responsible for a particular loan.	NA	LEN_BR_HOL/SVR/RESP_BEG_DT

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Lender Servicer Responsible End Date	482-489	8	Date	End date when Lender Servicer was responsible for a particular loan.	NA	LEN_BR_HOL_SVR/RESP_END_DT
Unique Loan Identifier	490-510	21	Char	Optional field used by data providers to match back to their systems	NA	LOAN_EXTL_ID /CODE
Academic Level Code	511-514	4	Char	Student's academic or grade-level at the school at the time the loan was guaranteed or disbursed.	NA	LOAN/ACAD_LVL
Academic Level Name	515-558	44	Char	Description of a student's academic or grade level at the school at the time the loan was guaranteed or disbursed.	NA	LOAN/ACAD_LVL_NM
Interest Rate	559-564	6	Num	For an 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.	NA	LOAN/INT_RT
Interest Rate Code	565-565	1	Char	A code indicating whether the interest rate is variable (V) or fixed (F) for the life of the loan (May also be '8' for 8/10).	NA	LOAN/INT_RT_CODE

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Interest Rate Type	566-573	8	Char	The description of the interest rate code.	NA	LOAN/INT_RT_CODE_DESCN
Loan Status Code	574-577	4	Char	A code indicating a status of a loan at a particular time.	NA	LOAN_STAT/CODE
Loan Status Code Description	578-625	48	Char	A description of the code indicating a status of a loan at a particular time.	NA	LOAN_STAT/CODE_DESCN
Loan Status Date	626-633	8	Date	The date on which the Loan Status became effective.	NA	LOAN_STAT/DT
School Type	634-634	1	Num	The code identifying the ownership control type of the institution.	NA	SCH/TYPE
School Type Description	635-653	19	Char	The description of the code identifying the ownership control type of the institution.	NA	SCH/TYPE_DESCN
Program Length	654-655	2	Num	The length of the longest program offered by the institution.	NA	SCH/PROG_LENGTH
Program Length Description	656-670	15	Char	The description of the code for the length of the longest program offered by the institution.	NA	SCH/PROG_LENGTH_DESCN

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Enrollment Code	671-671	1	Char	Code reflecting student's current enrollment status, as reported through the Student Status Confirmation Report.	NA	ENRL/CODE
Enrollment Effective Date	672-679	8	Date	Effective Date of a student's current enrollment status as reported from a data provider.	NA	ENRL/EFF_DT
Anticipated Completion Date	680-687	8	Date	The date a student is scheduled to complete course requirements.	NA	STU_BR/ANTIC_COMPL_DT
Current Maturity Date (Date Entered Repayment)	688-695	8	Date	The date a loan is scheduled to enter its repayment life cycle.	NA	LOAN/CURR_MAT_DT
Filler	696-800	105	Char.	Filler	NA	NA

Error Detail Record Layout

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Ombudsman SSN	1-9	9	Char.	SSN provided by Ombudsman Data Feed	Copied From Input Record	NA

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Ombudsm an Name	10-29	20	Char.	First Name provided by Ombudsman Data Feed	Copied From Input Record	NA
Ombudsm an DOB	30-37	8	Char.	DOB provided by Ombudsman Data Feed	Copied From Input Record	NA
Ombudsm an Case Number	38-47	10	Char	Case number provided by Ombudsman Data Feed	Copied From Input Record	NA
Match Result Indicator	48-48	1	Char	Character of 1,2,3 or 4 that defines the match	<p>1 = If the applicant information uniquely matches a student or parent borrower and relevant loan information is returned.</p> <p>2 = If the applicant SSN matches a student or parent borrower SSN but is not uniquely confirmed by name or DOB.</p> <p>3 = If the applicant SSN matches no student or parent borrower or the applicant SSN matches a student or parent borrower historical SSN but is not uniquely confirmed by name or DOB.</p> <p>4 = If the applicant information uniquely matches a student or parent borrower but no relevant loan information is returned.</p>	NA
Filler	49-80	32	Char.	Filler	NA	NA