



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

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NSLDS II Reengineering
System Interface Detail Design:
Common Origination and Disbursement
Pell Grant Data/Error File Interfaces
I-COD-1

Version 2.0

November 8, 2002

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Document Control

Version Number	Description	Release Date	Author
1.0	Initial Issue	09/30/2002	Troy Edwards
2.0	Incorporated 94.3.2 Deliverable Comments	11/08/2002	Troy Edwards

1 Common Origination and Disbursement (COD)

COD will send Pell Grant data to NSLDS II daily over the EAI BUS. This interface provides data relating the Department's Pell Grant program.

The COD interfaces include:

- Pell Grant Data (**Section 1.2**)
- Error File (Pell Data) (**Section 1.3**)

1.1 System Specifics

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 COD

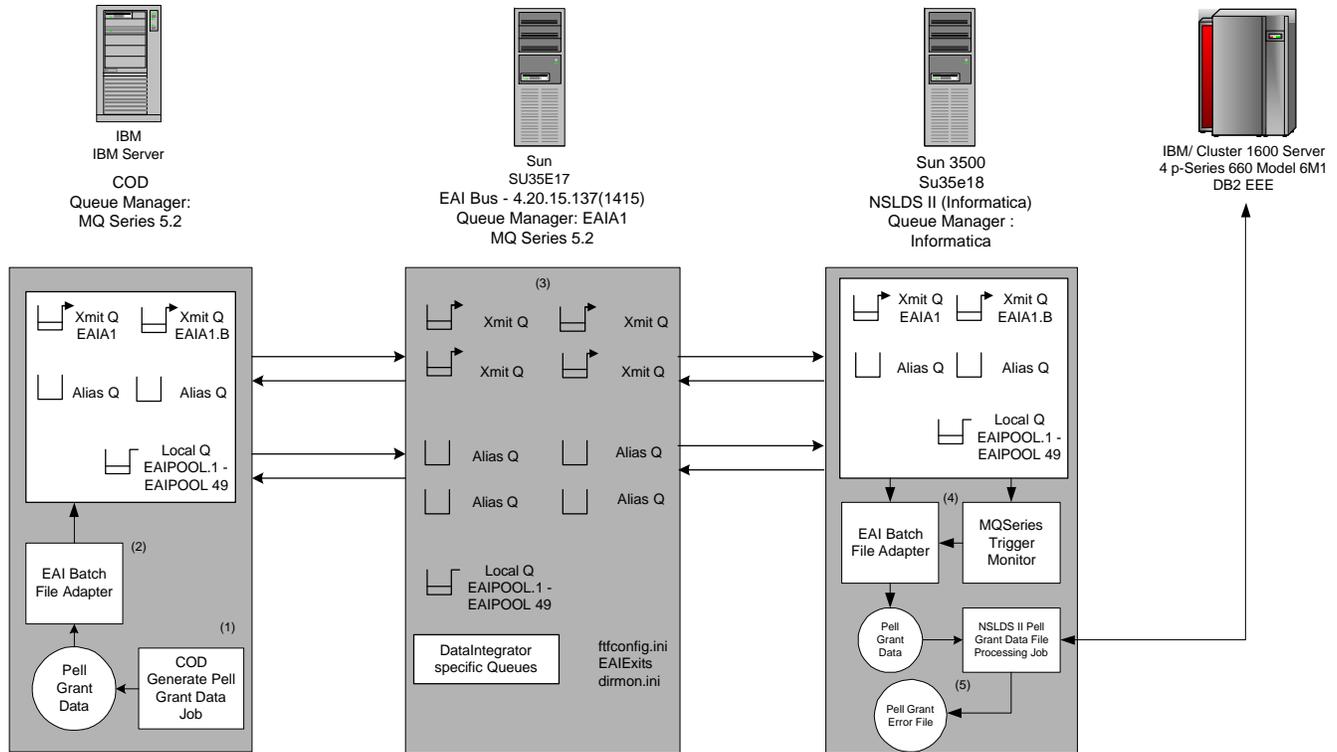
Item	Description
Production Platform (Vendor/Product Name/Version)	IBM / IBM Server
Operating System (Vendor/Product Name/Version)	IBM / OS 390
DBMS (Vendor/Product Name/Version)	IBM DB2
Transmission Protocol	TCP/IP
Production System IP Address	206.209.32.1
Production System Location	Columbus, GA
Contracting Organization	TSYS
Developer Location	Columbus, GA

1.2 Pell Grant Data

1.2.1 Interface Control Specifications

Interface Name:	COD Pell Grant Data Interface
Interface Type/Direction:	Unidirectional, Batch Type
Interface Short Description:	<p>This document defines the processes utilized by COD and NSLDS II to transport Pell Grant data via the EAI BUS.</p> <p>COD will send Pell Grant data to NSLDS II in a daily file transferred over the EAI BUS. NSLDS II (Informatica) will process the submitted file, performing the necessary edits and validations, and update the appropriate NSLDS II tables. All errors identified in the load process will be included in an error file that is sent back to COD for processing.</p>
Requesting Application: or Source Application:	COD is the source of the Pell Grant Data file
Responding Application: or Destination Application:	NSLDS II receives the Pell Grant Data file and responds with the Error File as necessary.
Detailed Technical Requirement References:	5.052
Interface Usage Frequency:	Daily
Interface Usage Volume:	<p>Average: 44,000 records</p> <p>Peak: 114,789 records</p>
Output Media:	Flat File in EBCDIC Format
Transmission Mechanism:	EAI BUS

1.2.2 Interface Flow



1.2.3 Interface Flow Description

1. The COD system will initiate a process to create the Pell Grant Data
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 NSLDS II
5. The NSLDS II (Informatica) Pell Grant Data processing job will process the Pell Grant Data and create a Pell Grant Error File

Invocation of EAI Batch File (receive) adapter will invoke the NSLDS II Pell Grant File Data Processing Job.

1.2.4 Source System Functional Specifications

#	Responsibility
1	COD will create the Pell Grant 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 Header Record One or more Detail Records

	One Trailer Record
3	<p>File data elements are defined as character, numeric, or date fields, where:</p> <ul style="list-style-type: none"> • Character fields may contain letters, numbers, or blanks. • 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.
4	An EAI batch file adapter will be supplied to initiate the file transfer from COD to NSLDS II
5	<p>COD will provide the EAI adapter file transfer utility with the following input parameters:</p> <p>Input File Name - TBD</p>

1.2.5 Destination System Functional Specifications

#	Responsibility
1	The EAI BUS will deliver the Pell Grant Data to the NSLDS II server
2	<p>The EAI Adaptor takes the following information as input:</p> <p>Queue manager name - TBD</p> <p>Queue name - TBD</p> <p>Sync point counter - TBD</p> <p>Output file name - TBD</p>
3	The MQ Series Trigger Monitor will trigger the NSLDS II Pell Grant Data processing job

1.2.6 Interface Assumptions

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

1.2.7 Error Messages

(See Appendix B for Error Messages and Codes)

1.2.8 File Layout

Header Record Layout

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Pos Sort	1 – 9	9	Num.	Positional sort field used for sorting the Header record to the top of the file.	000000000	NA
Data Provider	10 – 10	1	Char.	Indicator identifying the Federal Pell Grant program as the data provider of this file.	'P' for Pell Grant.	NA
Extract Date	11 – 18	8	Date	Creation date of this file.	CCYYMMDD format; valid date. Must be ≤ current date.	NA
Unused	19 – 296	278	Char.	Blank field to complete record length.	N/A	NA
Pell Award Year	297 – 300	4	Num.	Award year in which the student received a Federal Pell Grant, as reported by the Reporting Campus.	Must be numeric in CCYY format. Must be ≤ the current year + 1. Must be ≥ 2003. Represents the award year: e.g., for the 2002-2003-award year, populate with 2003.	NA

Detail Record Layout

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Student's Current Social Security Number	1-9	9	Num.	Social Security Number, as altered by the student through the Central Processing System (CPS). This SSN matches the original Social Security Number if the student has not reported an SSN change to the CPS. The Current SSN is used for all external matches and interfaces.	Must be numeric.	See Appendix C for Mapping Information
Student's Date of Birth	10-17	8	Date	Date of birth (century, year, month, day) reported by the student to the CPS as of this transaction number.	Must be numeric in CCYYMMDD format and must be a valid date. Must be ≥ Pell Award Year-99. Must be ≤ Pell Award Year-12.	See Appendix C for Mapping Information
Student's First Name	18-29	12	Char.	First Name, reported by the student to the CPS as of this transaction number.	May be plug value 'NFN'. If blank, plug value 'NFN' is substituted.	See Appendix C for Mapping Information
Reporting Campus OPE ID	30-37	8	Num.	OPE ID assigned to the participating independent campus, or central administrative campus/office for branch campuses with unique OPE IDs. The Reporting Campus is the funded institution.	Must have a corresponding NSLDS OPE ID in the School table.	See Appendix C for Mapping Information

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Attending Campus OPE ID	38-45	8	Num.	OPE ID assigned to the campus the student actually attends. For independent campuses, this is the same OPE ID as the Reporting Campus.	Must have a corresponding NSLDS standard OPE ID in the School table.	See Appendix C for Mapping Information
Student's New Current Social Security Number	46-54	9	Char.	Current Social Security Number, as altered by the student through the CPS as of this transaction number.	Must be numeric when populated. If New Current Social Security Number is changing, populate with the new value. If New Date of Birth, New First Name, New Reporting Campus, and/or New Attending Campus are changing but New SSN is not, populate with old, unchanged SSN. When action code is 'A' (Add), this field must be blank.	See Appendix C for Mapping Information
Student's New Date of Birth	55-62	8	Char.	Date of birth (century, year, month, day) reported by the student to the CPS as of this transaction number.	When populated, must be numeric in CCYYMMDD format and be a valid date, must be ≥ Pell Award Year-99, and must be ≤ Pell Award Year-12. When Student's New Date of Birth is changing, populate with the new value. When Student's New Current SSN, New First Name, New Reporting Campus, and/or New Attending Campus are changing, but New Date of Birth is not, populate with current, unchanged date of birth. When action code is 'A' (Add), this field	See Appendix C for Mapping Information

Data Element	Field Position	Length	Type	Description	Edits	Mapping
					must be blank.	
Student's New First Name	63-74	12	Char.	First name reported by the student to the CPS as of this transaction number.	When populated, may be plug value 'NFN'. When Student's New First Name is changing, populate with the new value. When the Student's New Current SSN, New Date of Birth, New Reporting School, and/or New Attending School are changing, but New First Name is not, populate with current, unchanged first name. When action code is 'A' (Add), this field must be blank.	See Appendix C for Mapping Information
New Reporting School OPE ID	75-82	8	Char. (Conv. to Num. in NSLDS)	OPE ID assigned to the participating independent campus, or central administrative campus/office for branch campuses with unique OPE ID, as of this transaction number.	When populated, the OPE ID must have a corresponding entry in the School table. When Reporting School OPE ID is changing, populate with new value. When the Student's New Current SSN, New Date of Birth, New First Name, and/or New Attending School is changing, but New Reporting School is not, populate with current, unchanged Reporting School. When action code is 'A' (Add), this field must be blank.	See Appendix C for Mapping Information
New Attending School OPE ID	83-90	8	Char. (Conv. to Num. in NSLDS)	OPE ID assigned to the campus the student actually attends as of this transaction number.	When populated, OPE ID must have a corresponding OPE ID in the School table. When New Attended School OPE ID is	See Appendix C for Mapping Information

Data Element	Field Position	Length	Type	Description	Edits	Mapping
ID			NSLDS)	transaction number.	changing, populate with new value. When Current Student SSN, New Date of Birth, New First Name, and/or New Reporting School is changing, but New Attending School OPE ID is not, populate with an unchanged value. When action code is 'A' (Add), this field must be blank.	
Student's Last Name	91-125	35	Char.	Last name reported by the student to the CPS as of this transaction number.	Must not be all blank. May be plug value 'NLN'.	See Appendix C for Mapping Information
Student's Middle Initial	126-126	1	Char.	Middle initial reported by the student to the CPS as of this transaction number.	No edits.	See Appendix C for Mapping Information
Student's Original Social Security Number	127-135	9	Num.	Social Security Number, as reported to the CPS on the student's original application for this Pell award year. This field is constant for the entire Pell award year, regardless of changes to Current SSN, and is used for all CPS internal matches.	Must be numeric	See Appendix C for Mapping Information
Student's Original Name Code	136-137	2	Char.	First two characters of student's last name, as reported to the CPS on the student's original application for this Pell award year. This field is	No edits.	See Appendix C for Mapping Information

Data Element	Field Position	Length	Type	Description	Edits	Mapping
				constant for the entire Pell award year, regardless of changes to last name, and is used for all CPS internal matches. Within the CPS, an applicant is defined as a unique combination of Original SSN/ Name code. For example, 123456789AA and 123456789ZZ represent two different applicants.		
Pell Batch Number	138-163	26	Char.	Pell batch number.	BLANK	See Appendix C for Mapping Information
Disbursement Reference Number	164-165	2	Num.	Disbursement reference number.	Must be numeric and in the range 01-99.	See Appendix C for Mapping Information
Filler	166-169	4	Char.	Blank filled to complete record length.	N/A	See Appendix C for Mapping Information
Transaction Number	170-171	2	Num.	As assigned by CPS to student's "Paid on transaction" sent to COD by the school.	Must be numeric and in the range 01-99.	See Appendix C for Mapping Information
Expected Family Contribution	172-176	5	Num.	Index of the student's eligibility for Federal student financial assistance, as calculated by	Must be numeric and in the range 0000-03800.	See Appendix C for Mapping Information

Data Element	Field Position	Length	Type	Description	Edits	Mapping
				the CPS. Also known as original EFC.		
Secondary Expected Family Contribution	177-181	5	Char.	As assigned by CPS to student's "Paid on transaction" sent to COD by the school. If CPS did not calculate a Secondary EFC, then this field will be blank.	Must be in the range 00000-99999 or blank.	See Appendix C for Mapping Information
Accepted Secondary EFC Used Code	182-182	1	Char.	Code indicating which EFC the Reporting Campus used to award the student's Federal Pell Grant.	Valid values S, O, and blank. S = Award based on Secondary EFC O = Award previously based on Secondary EFC; award now based on original EFC. Blank if Reporting School never reported that it based the award on Secondary EFC, or if Secondary EFC is blank or exceeds Pell-eligible range for the award year.	See Appendix C for Mapping Information
Accepted Cost of Attendance	183-189	7	Num.	Cost for the student's educational program at this Reporting/Attended Campus.	Must be numeric and in the range 0000000-9999999 in the format ddddd.cc, where d=dollars and c=cents.	See Appendix C for Mapping Information
Highest Cost of Attendance	190-196	7	Num.	Highest Cost of Attendance at this Reporting/Attended Campus for the award year.	ZERO	See Appendix C for Mapping Information

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Scheduled Federal Pell Grant Amount	197-203	7	Num.	Maximum award for this award year at this EFC and Cost of Attendance for a full-time student attending for a full academic year. Taken from the Federal Pell Grant Payment schedule.	Must be numeric and in the range 0000000-0400000 in the format dddd.cc, where d=dollars and c=cents.	See Appendix C for Mapping Information
Accepted Amount Paid to Date	204-210	7	Num.	Amount already paid to the student for this award year, as of the date the Reporting School submitted the data to the Federal Pell Grant program.	Must be numeric and in the range 0000000-0400000 in the format dddd.cc, where d=dollars and c=cents.	See Appendix C for Mapping Information
Accepted Origination Amount	211-217	7	Num.	Pell Grant accepted origination amount.	Must be numeric and in the range 0000000-0400000 in the format dddd.cc, where d=dollars and c=cents.	See Appendix C for Mapping Information
Accepted First Enrollment	218-225	8	Num.	Date (century, year, month, day) that student first attended classes in an eligible program for this award year.	Must be valid date in format ccyymmdd. The date must be in the range: (Pell Award Year -1) 0101 to (Pell Award Year)0630. Range: 20020101-20030630 May be plug value 00010101.	See Appendix C for Mapping Information
Accepted Academic Calendar	226-226	1	Num.	Code designating the calendar used to measure academic progress for the student's program at this Reporting/Attended	Valid values are 1-6 1 = Institution uses nonstandard academic terms and measures academic progress by credit hours.	See Appendix C for Mapping Information

Data Element	Field Position	Length	Type	Description	Edits	Mapping
				Campus.	<p>2 = Institution uses standard quarters and measures academic progress by credit hours.</p> <p>3 = Institution uses standard semesters and measures academic progress by credit hours.</p> <p>4 = Institution uses standard trimesters and measures academic progress by credit hours.</p> <p>5 = Institution measures academic progress by clock hours.</p> <p>6 = Institution does NOT use terms, but does measure academic progress by credit hours.</p>	
Accepted Verification Status Code	227-227	1	Char.	Applicant data verification method under which the Reporting/Attended Campus made payment to the student, as defined in the Verification Handbook.	<p>Valid values are:</p> <p>Blank = Not selected for Verification</p> <p>V = Selected for Verification</p> <p>W = Institution made first payment without documentation to complete application data verification.</p>	See Appendix C for Mapping Information
Accepted Payment Methodology	228-228	1	Num.	The formula used to calculate the student's Federal Pell Grant.	<p>Must be numeric and in the range 1-5, where the number represents the formula used for computation.</p> <p>1 = Credit hour with standard terms in which Fall through Spring terms equal or exceed 30 weeks or have been granted</p>	See Appendix C for Mapping Information

Data Element	Field Position	Length	Type	Description	Edits	Mapping
					<p>waiver.</p> <p>2 = Credit hour with standard terms in which Fall through Spring terms are less than 30 weeks or no waiver granted.</p> <p>3 = Credit hour with standard or non-standard terms.</p> <p>4 = Clock hour or Credit hour without terms.</p> <p>5 = Programs of study by correspondence.</p>	
Accepted Enrollment Status Code	229-229	1	Char.	Code indicating the student's enrollment status.	<p>Must be in the range 1-5 or blank.</p> <p>1 = Full-time</p> <p>2 = Three-quarter-time</p> <p>3 = Half-time</p> <p>4 = Less than half-time</p> <p>5 = Other*</p> <p>Blank = non-traditional (clock/credit hours).</p> <p>*Other applies in two cases:</p> <p>a. The student's enrollment status is different from one term to another; or</p> <p>b. A part-time student attends more terms than the standard academic year, e.g., all four quarters or both semesters plus the summer term.</p>	See Appendix C for Mapping Information
Highest	230-230	1	Char.	Highest enrollment status	BLANK	See Appendix C

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Accepted Enrollment Status				code reported by the Reporting/Attended Campus for this award year.		for Mapping Information
Accepted Credit Hours/Credits to Complete	231-234	4	Char. (Conv. to Num. in NSLDS)	Number of credit or clock hours the Reporting Campus expects the student to complete in this award year.	Blank or Ranges: 0000-3120 for Academic Calendar=5 0000-0100 for Academic Calendar=6 If blank, 0000 is substituted.	See Appendix C for Mapping Information
Accepted Hours/Credits in School Academic Year	235-238	4	Char. (Conv. to Num. in NSLDS)	Number of credit/clock hours in the academic year definition for the student's educational program.	Blank or Ranges: 0100-3120 for Academic Calendar=5 0024-0100 for Academic Calendar=6 If blank, 0000 is substituted.	See Appendix C for Mapping Information
Accepted Weeks Enrolled	239-240	2	Char. (Conv. to Num. in NSLDS)	Number of weeks of instructional time the Reporting Campus expects the student to attend in this award year.	Blank (when Payment Method=1) 00-78 (when Payment Method=2, 3, 4, or 5)	See Appendix C for Mapping Information
Accepted Weeks in Program	241-242	2	Char. (Conv. to Num. in NSLDS)	Number of weeks of instructional time in the student's educational program.	Blank (when Payment Method=1). 30-78 (when Payment Method = 2, 3, 4, or 5).	See Appendix C for Mapping Information
Accepted Incarcerated Recipient Code	243-243	1	Char.	Code indicating whether student is incarcerated.	Must be blank, 'Y', or 'N'. Y = Yes, student is incarcerated but is otherwise eligible to receive a Federal Pell Grant. N = Not (or No longer) incarcerated.	See Appendix C for Mapping Information

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Total Eligibility Used	244-248	5	Num.	Total percentage of eligibility used, accumulated from all current segments for this student (Original SSN/Name code), expressed in decimal.	Must be numeric in the range 00000–99999 (i.e., 0–999.99%). Expressed as a decimal in 9V9999 format, e.g., 01234 for 12.34%.	See Appendix C for Mapping Information
Percent Eligibility Used	249-253	5	Num.	Percentage of eligibility used at this Reporting/Attended Campus, expressed in decimal.	Must be numeric in the range 00000–10000 (i.e., 0–100%). Expressed as a decimal in 9V9999 format, e.g., 01234 for 12.34%	See Appendix C for Mapping Information
Potential Overaward (POP) Flag	254-254	1	Char.	Code indicating student may have received over 100% of the Scheduled Federal Pell Grant.	P: POP Flag is set Blank: POP Flag not set	See Appendix C for Mapping Information
POP: Amount Disallowed	255-261	7	Num.	Amount disallowed by Federal Pell Grant program Potential Overaward Process edits.	Must be numeric and in the range 0000000–0400000 in the format: dddddd.cc, where d=dollars and c=cents.	See Appendix C for Mapping Information
Received Date	262-269	8	Char.	Date portion from Pell Grant Transaction Received Timestamp.	Must be in CCYYMMDD format and be a valid date. If all blank, changed to '00010101'. Must be plug value '00010101' or ≤ current date. Must be plug value '00010101' or ≥ 19930701.	See Appendix C for Mapping Information
Disbursemen	270-277	8	Char.	Date portion from Pell	Must be in CCYYMMDD format and be a	See Appendix C

Data Element	Field Position	Length	Type	Description	Edits	Mapping
ent Date				Grant Transaction Last Update Timestamp.	valid date. If blank, changed to '00010101'. Must be plug value '00010101' or ≥ Received Date - 30 days.	for Mapping Information
Date Disbursement Posted in COD	278-285	8	Char.	The date COD posted the accepted disbursement.	Must be in CCYYMMDD format and be a valid date.	See Appendix C for Mapping Information
Unused	286-295	10	Char.	Filler	N/A	See Appendix C for Mapping Information
Action Code	296-296	1	Char.	The NSLDS process indicator.	Valid values: 'A' (Add), 'C' (Change).	See Appendix C for Mapping Information
Pell Award Year	297-300	4	Num.	School year in which the student received a Federal Pell Grant, as reported by the Reporting Campus.	Must be numeric in CCYY format. Must be ≤ current year + 1. Must be ≥ 2003. Must equal Pell Award Year in Header. Represents last calendar year for the grant's school year; e.g., for 2002-2003 school year, populate with 2003.	See Appendix C for Mapping Information

Trailer Record Layout

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Positional Sort Field	1-9	9	Char.	Positional sort field used for sorting Trailer record	999999999	NA

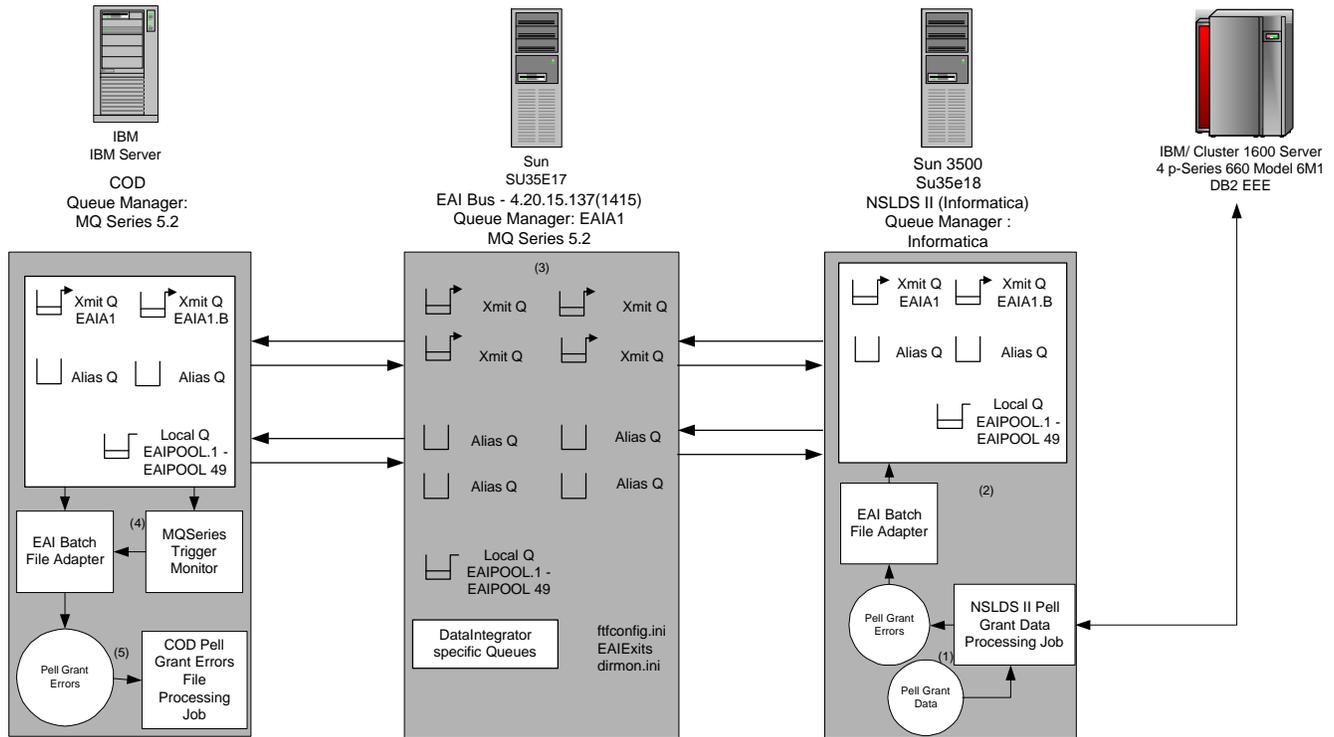
Data Element	Field Position	Length	Type	Description	Edits	Mapping
				to bottom of file.		
Data Provider Indicator	10-10	1	Char.	Indicator identifying this submittal as a Pell Grant extract file.	'P' for Pell Grant	NA
Extract Date	11-18	8	Date	Date this file is created.	CCYYMMDD format; valid date. Must be ≤ current date. Must be equal to Extract Date in Header.	NA
Number of Detail records Sent	19-26	8	Num.	The number of Detail records sent for this submittal.	Must be numeric. Must equal the number of Detail records in the file.	NA
Filler	27-296	270	Char.	Blank filled to complete record length.	N/A	NA
Pell Award Year	297-300	4	Num.	School year in which the student received a Federal Pell Grant, as reported by the Reporting Campus.	Must be numeric in CCYY format. Must be ≤ current year + 1. Must be ≥ 2003. Must equal Pell Award Year in Header. Represents last calendar year for the grant's school year: e.g., for 2002–2003 school year, populate with 2003.	NA

1.3 Error File (Pell Grant)

1.3.1 Interface Control Specification

Interface Name:	COD Pell Grant Interface
Interface Type/Direction:	Unidirectional, Batch Type
Interface Short Description:	<p>This document defines the processes utilized by COD and NSLDS II to transport the Error File (Pell Grant Data) via the EAI BUS.</p> <p>COD will send Pell Grant data to NSLDS II in a daily file transferred over the EAI Bus. NSLDS II (Informatica) will process the submitted file, performing the necessary edits and validations, and update the appropriate NSLDS II tables. All errors identified in the load process will be included in an error file that is sent back to COD for processing.</p>
Requesting Application: or Source Application:	NSLDS II is the source of the Error File
Responding Application: or Destination Application:	COD receives the Error File
Detailed Technical Requirement References:	5.053
Interface Usage Frequency:	Daily
Interface Usage Volume:	TBD
Output Media:	Flat File in EBCDIC Format
Transmission Mechanism:	EAI BUS

1.3.2 Interface Flow



1.3.3 Interface Flow Description

1. NSLDS II (Informatica) will process the Pell Grant file and create the Pell Grant Errors 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 COD server
4. The EAI Batch File Adapter will move the file to the COD server
5. The COD system will process the Pell Grant Errors file

Invocation of EAI Batch File (receive) adapter may invoke the COD Pell Grant Error File Processing Job

1.3.4 Source System Functional Specifications

#	Responsibility
1	NSLDS II will process the Pell Grant Data and save the Pell Grant Errors File as a flat file
2	The data extracted will be laid out as in section 1.3.8 Each record will consist of: One Header Record One or more Detail Records One Trailer Record
3	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.
4	One detail record will be included in the file for each error identified
5	An EAI batch file adapter will be supplied to initiate the file transfer from NSLDS II to COD
6	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 Errors file to the COD 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 / COD environment
2	The EAI architecture will be configured to support the transfer of data from NSLDS II to COD

1.3.7 Error Messages

(See Appendix B for Error Codes and Messages)

1.3.8 File Layout

Header Record Layout

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Positional Sort Field	1-9	9	Num.	Positional sort field used for sorting the Header record to the top of the file. Contains the value from the input Header record.	NA	NA
Data Provider Indicator	10-10	1	Char.	Indicator identifying this submittal as a Pell Grant Extract file. Contains the value from the input Header record.	Copied from Input Record	NA
Process Date	11-18	8	Date	Date this file is created, in CCYYMDD format. Contains the value from the input Header record.	Part of processing logic	NA
Filler	19-96	78	Char.	Blank field to complete record length.	NA	NA
Pell Award Year	97-100	4	Num.	School year in which the student received a Federal Pell Grant, as reported by the Reporting Campus. Value is in CCYY format. Represents last calendar year for the grant's school	Copied from Input Record	NA

Data Element	Field Position	Length	Type	Description	Edits	Mapping
				year; e.g., for 2000-2003 school year, populate with 2003. Contains the value from the input Header record.		
Sort Sequence Field	101-109	9	Char.	Used in sort criteria. Contains the value from the input Header record.	Copied from Input Record	NA

Detail Record Layout

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Student's Current Social Security Number	1-9	9	Char.	The Social Security Number of a Title IV aid recipient; this matches the original SSN in FMS unless the student has reported a change in SSN to the Central Processing System (CPS). Contains the value from the input Detail record.	Copied from Input Record	NA
Student's Date of Birth	10-17	8	Date	The year, month, and day on which the Title IV aid recipient was born. Contains the value from the input Detail record.	Copied from Input Record	NA
Student's First Name	18--29	12	Char.	The first name of a Title IV aid recipient. Contains the value from the input Detail record, unless	Copied from Input Record	NA

Data Element	Field Position	Length	Type	Description	Edits	Mapping
				'NFN' was substituted for a blank value.		
Reporting School OPE ID	30-37	8	Num.	The OPE ID of the independent school campus, or central administrative campus/office, for branch campuses with unique institution numbers. Contains the value from the input Detail record.	Copied from Input Record	NA
Attending School OPE ID	38-45	8	Num.	The OPE ID of the school campus attended by student. Contains the value from the input Detail record.	Copied from Input Record	NA
Student's Original Social Security Number	46-54	9	Num.	Social Security Number, as reported to the CPS on the student's original application for this Pell award year. Contains the value from the input Detail record.	Copied from Input Record	NA
Student's Original Name Code	55-56	2	Char.	First two characters of student's last name, as reported to the CPS on the student's original application for this Pell award year. Contains the value from the input Detail record.	Copied from Input Record	NA
Batch Number	57-82	26	Char.	Unique identifier assigned during Federal Pell Grant	Blanks are the default	NA

Data Element	Field Position	Length	Type	Description	Edits	Mapping
				processing for this particular student (Original SSN/Name code) at this Reporting/Attended Campus. Contains the value from the input Detail record.		
Error Code	83-87	5	Num.	A five-digit code for the error that is found	Error Code Look-up Table	NA
Filler	88-95	8	Char.	Blank field to complete record length.	NA	NA
Action Code	96-96	1	Char.	The NSLDS process indicator. Contains the value from the input Detail record.	Copied from Input Record	NA
Pell Award Year	97-100	4	Num.	The school year for which a Pell Grant is to be used to fund a student's education. Contains the value from the input Detail record.	Copied from Input Record	NA
Sort Sequence Field	101-109	9	Char.	Used in sort criteria. Filled with spaces.	NA	NA

Trailer Record Layout

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Positional Sort Field	1 - 9	9	Num.	Positional sort field used for sorting Trailer record to bottom of file. Value is	NA	NA

Data Element	Field Position	Length	Type	Description	Edits	Mapping
				999999999.		
Data Provider Indicator	10 - 10	1	Char.	Indicator identifying the Federal Pell grant program as the data provider of this file. Contains the value from the input Trailer record.	Contains the value from the input Trailer record.	NA
Process Date	11 - 18	8	Date	Date the input file was created. Contains the value from the input Trailer record.	Contains the value from the input Trailer record	NA
Number of Detail Records Received	19 - 26	8	Num.	The number of Detail records in the submittal. Contains the value from the input Trailer record.	Contains the value from the input Trailer record	NA
Number of Records with Errors	27 - 34	8	Num.	Number of records validated and found in error.	Part of processing logic	NA
Number of Error Message Records	35 - 42	8	Num.	Number of Error Message records created and contained in this Error file.	Part of processing logic	NA
Filler	43 - 96	54	Char.	Blank filled to complete record length.	NA	NA
Pell Award Year	97 - 100	4	Num.	School year in which the student received a Federal Pell Grant, as reported by the Reporting Campus. Contains the value from the input Trailer record.	Contains the value from the input Trailer record	NA
Sort Sequence	101 - 109	9	Char.	Used in sort selection. Filled with high-values	NA	NA

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Field				(hex FFs).		

1.4 Appendix A

NSLDS II Processing Logic:

Read the attending School and School Branch tables using the School Code in the Old Identification Information as qualifying attribute.

If the School/School Branch is not found:

Build and write an Error record indicating that the School/School Branch is not found. Exit and go to the next iteration of the loop.

Read the reporting School and School Branch tables using the School Code in the Old Identification Information as qualifying attribute.

If the School/School Branch is not found:

Build and write an Error record indicating that the School/School Branch is not found. Exit and go to the next iteration of the loop.

Read the Student and Student Branch tables using the student fields in the Old Identification Information as qualifying attributes and using the relationship with the current attending School Branch.

If the Student is not found:

CREATE_STUDENT and STUDENT_BRANCH data in the NSLDS database using the data from the input record; associate Student Branch to Student and to the current attending School Branch.

If the Student is found but the Student Branch is not found:

CREATE_STUDENT_BRANCH data in the NSLDS database and associate it to Student and to the current attending School Branch.

CREATE_GRANT data in the NSLDS database using the data from the input record and associate it to the current Student Branch.

If error record exists in DB2 table PELL_SUBMITTAL_RUN_ERRORS, update it with STAT = 'C' for closed.

- c. Process Indicator = 'C' (Change) and the New Identification Information fields are not valued (meaning, no key field changes).

Read the attending School and School Branch tables using the School Code in the Old Identification Information as qualifying attribute.

If the School/School Branch is not found:

Build and write an Error record indicating that the School/School Branch is not found. Exit and go to the next iteration of the loop.

Read the reporting School and School Branch tables using the School Code in the Old Identification Information as qualifying attribute.

If the School/School Branch is not found:

Build and write an Error record indicating that the School/School Branch is not found. Exit and go to the next iteration of the loop.

Read the Student and Student Branch tables using the student fields in the Old Identification Information as qualifying attributes and using the relationship with the current attending School Branch.

If the Student is not found:

CREATE_STUDENT and STUDENT_BRANCH Data in the NSLDS database using the data from the input record; associate Student Branch to Student and to the current attending School Branch.

If the Student is found but the Student Branch is not found:

CREATE_STUDENT_BRANCH data in the NSLDS database and associate it to Student and to the current attending School Branch.

Read the Grant table using the Pell School Year in the Old Identification Information as qualifying attribute and using the relationship with the current Student Branch.

If the record is found:

UPDATE_GRANT data in the NSLDS database record using the data from the Input record. If error record exists in DB2 table PELL_SUBMITTAL_RUN_ERRORS, update it with STAT = 'C' for closed.

If the record is not found:

CREATE_GRANT data in the NSLDS database using the data from the Input record and associate it to the current Student Branch. If error record exists in DB2 table PELL_SUBMITTAL_RUN_ERRORS, update it with STAT = 'C' for closed.

- d. Process Indicator = 'C' (change) AND the New Identification Information fields are valued (meaning there are key field changes).

Read the attending School and School Branch tables using the School Code in the OLD Identification Information as qualifying attribute.

If the School/School Branch is not found:

Build and write an Error record indicating that the School/School Branch is not found. Exit and go to the next iteration of the loop.

Read the reporting School and School Branch tables using the School Code in the OLD Identification Information as qualifying attribute.

If the School/School Branch is not found:

Build and write an Error record indicating that the School/School Branch is not found. Exit and go to the next iteration of the loop.

Read the attending School and School Branch tables using the School Code in the NEW Identification Information as qualifying attribute.

If the School/School Branch is not found:

Build and write an Error record indicating that the School/School Branch is not found. Exit and go to the next iteration of the loop.

Read the reporting School and School Branch tables using the School Code in the NEW Identification Information as qualifying attribute.

If the School/School Branch is not found:

Build and write an Error record indicating that the School/School Branch is not found. Exit and go to the next iteration of the loop.

Read the Student and Student Branch tables using the student fields in the OLD Identification Information as qualifying attributes and using the relationship with the current attending School Branch.

If the Student/Student Branch is found:

Do nothing right now; the changes may have already been applied.

Read the Grant table using the Pell School Year in the OLD Identification Information as qualifying attribute and using the relationship with the current Student Branch.

If the record is not found:

Do nothing right now; the changes may have already been applied.

Read the Student and Student Branch tables using the student fields in the New Identification Information as qualifying attributes and using the relationship with the current attending School Branch.

Read the Grant table using the Pell School Year in the New Identification Information as qualifying attribute and using the relationship with the current Student Branch.

If the record is found:

Build and write an Error record indicating that the old and new grant both exist. Exit and go to the next iteration of the loop.

If the Identifier change relates to the Student (i.e. the Social Security number is different and either or both of the First Name and Date of Birth are different).

UPDATE_STUDENT by replacing the fields that have changed (First Name, Date of Birth, SSN or Last Name); reassociate it to School Branch and to Student Branch.

If the SSN has changed, CREATE_STUDENT_SOCIAL_SECURITY using the 'old' SSN and associate it to Student.

If the First Name has changed, CREATE_STUDENT_NAME using the 'old' First Name and associate it to Student.

Else,

If the New Student is not found, CREATE_STUDENT, and CREATE_STUDENT_BRANCH.

If the Grant was found and there are changes to non-key fields, UPDATE_GRANT.

If the Student Branch has changed, CORRECT_GRANT_STUDENT_BRANCH

1.5 Appendix B

Error Code and Description by Data Element

Pos FR	Pos TO	Data Element	Error Code			Error Message/Condition	Lth
			Rec Type	Data Elem #	Code		
1	9	Position Sort Field	0	01	No code issued – program aborts	Header record not found. This field must = 00000000.	9
10	10	Data Provider indicator	0	02	No code issued – program aborts	Must be equal to 'P'.	1
11	18	Extract Date	0	03	No code issued – program aborts	Invalid month in date; must be in the range 1–12.	8
			0	03	No code issued – program aborts	Invalid days in date; number of days exceeds for the month.	
			0	03	No code issued – program aborts	Must be ≤ 29 for February in a leap year.	
			0	03	No code issued – program aborts	Must be ≤ 28 for February in a non-leap year.	
			0	03	No code issued – program aborts	Invalid year in date; must be numeric.	
			0	03	No code issued – program aborts	Must be ≤ current date.	
297	300	Pell Award Year	0	04	No code issued – program	Pell School Year must be numeric.	4

			Error Code				
Pos FR	Pos TO	Data Element	Rec Type	Data Elem #	Code	Error Message/Condition	Lth
					aborts		
			0	04	No code issued – program aborts	Pell School Year must be ≥ 2003.	
			0	04	No code issued – program aborts	Pell School year must be ≤ current year + 1.	

1.6 Appendix C

Submittal Record Specifics:

(See Attached Matrix)