



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:
Direct Loan Servicing System
Enrollment Update Interface
I-DLSS-2

Version 2.0

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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 Direct Loan Servicing System (DLSS)

DLSS will send detailed loan information for participants in FSA's Direct Loan program to NSLDS II daily (file is currently sent weekly). Data sent to NSLDS II from DLSS includes loan status and activity information on the over 20 million loans administered as part of the Direct Loan program. The daily file includes only loans that have registered a change or modification since the last file was sent to NSLDS II.

NSLDS II will send student enrollment status information daily to DLSS for participants in the Direct Loan program (file is currently sent weekly). NSLDS II will receive student enrollment updates directly from the school or its servicer and will generate a daily file of enrollment updates for Direct Loan recipients.

DLSS will send requests to NSLDS II for loan data (FFEL) to support its DL Exit Counseling program. NSLDS II will process requests and send the results back to DLSS.

The DLSS interfaces include:

- DLSS Loan Data (**See Document I-DLSS-1**)
- DLSS Loan Data Error File (**See Document I-DLSS-1**)
- Threshold, Error Code, and Field Code (TEF) File (Loan Data) (**See Document I-DLSS-1**)
- DLSS Enrollment Update File (**Section 1.2**)
- DLSS Exit Counseling Request (**See Document I-DLSS-3**)
- DLSS Exit Counseling (**See Document I-DLSS-3**)
- DLSS CDR Preview (**See Document I-DLSS-4**)
- DLSS CDR Draft (**See Document I-DLSS-4**)
- DLSS CDR Official (**See Document I-DLSS-4**)

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 DLSS

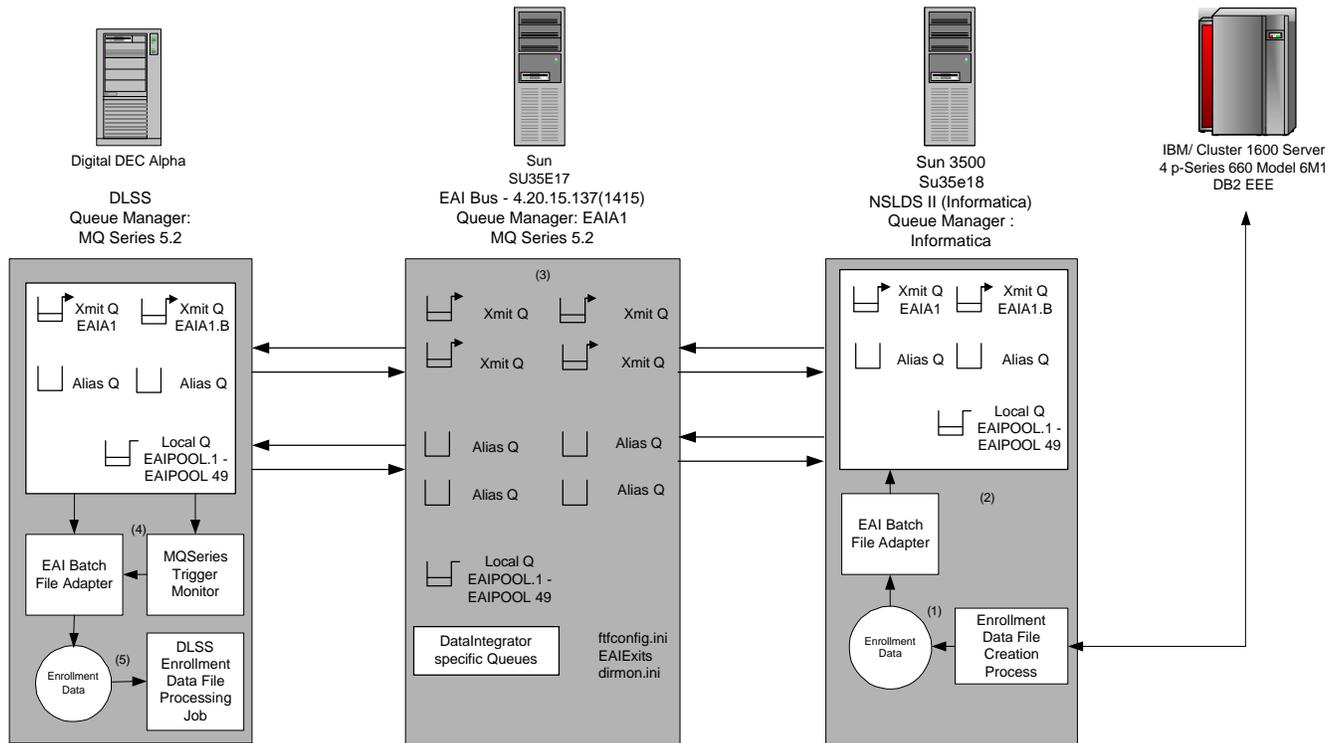
Item	Description
Production Platform <i>(Vendor/Product Name/Version)</i>	Digital / DEC Alpha
Operating System <i>(Vendor/Product Name/Version)</i>	Unix
DBMS <i>(Vendor/Product Name/Version)</i>	Oracle
Transmission Protocol	TCP/IP
Production System IP Address	207.91.76.51
Production System Location	Rockville, MD
Contracting Organization	ACS
Developer Location	Rockville, MD

1.2 Enrollment Data Interface

1.2.1 Interface Control Specifications

Interface Name:	Enrollment Data Interface
Interface Type/Direction:	Unidirectional, Batch Type
Interface Short Description:	This document defines the processes utilized by DLSS and NSLDS II to transport DLSS enrollment data via the “EAI BUS”. NSLDS II will send DLSS a daily file of enrollment status updates for Direct Loan participants. An NSLDS II Informatica job will create the Enrollment Data file. The file will be transferred over the EAI Bus to the DLSS server.
Requesting Application: or Source Application:	NSLDS II is the source of the Enrollment Data file
Responding Application: or Destination Application:	DLSS receives the Enrollment Data file
Detailed Technical Requirement References:	5.071
Interface Usage Frequency:	Daily
Interface Usage Volume:	50,200 Average Records, 17mb Average File Size
Output Media:	Flat File in EBCDIC Format
Transmission Mechanism:	EAI Bus

1.2.2 Interface Flow



1.2.3 Interface Flow Description

1. The NSLDS II system (Informatica) will initiate a process to create the Enrollment Data 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 DLSS server
4. The EAI Batch File Adapter will move the file to the DLSS server
5. DLSS will process the Enrollment Data

1.2.4 Source System Functional Specifications

#	Responsibility
1	NSLDS II will extract the Enrollment 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 Layout
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. • 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 adaptor will be supplied to initiate the file transfer from NSLDS II to DLSS
5	NSLDS II will provide the EAI adaptor file transfer utility with the following Input Parameters - TBD Input File Name - TBD

1.2.5 Destination System Functional Specifications

#	Responsibility
1	The EAI BUS will deliver the Enrollment Data file to the DLSS 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 will trigger the DLSS Enrollment Data processing job

1.2.6 Interface Assumptions

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

1.2.7 Error Messages

Code	Message
NA	NA

1.2.8 File Layout

Header Record Layout

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Sequence Number	1-7	7	Char	0000000	NA	SSCR_Transmittal_Detail/D_SSCR_Sequence_Number
Confirm text	8-25	18	Char	'SSCR ROSTER HEADER'	NA	NA
Provider code	26-35	10	Char	Code for provider receiving file	NA	PORT/Port_Prov_Code
Filler	36-36	1	Num	Filler	NA	NA
Create date	37-56	20	Char	Timestamp when file generated	NA	Created as Part of Interface Program
Filler	57-336	280	Num	Filler	NA	NA

Detail Record Layout

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Sequence Number	1-7	7	Num.	Record Sequence Number. Header - 0000000 Detail - 0000001,2,3 Trailer - 9999999	NA	SSCR_Transmittal_Detail/D_SSCR_Sequence_Number

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Current SSN	8-16	9	Char.	SSN Recorded as Current.	NA	STU/Curr_SSN
Current Pseudo SSN Indicator	17-17	1	Char.	Indicator describing the SSN as an actual SSN or an Identification ID other than SSN.	NA	STU/ Curr_Pseudo_Ind
Current Last	18-52	35	Char.	Last Name Reported as Current.	NA	STU / Curr_Lst
Current First	53-64	12	Char.	First Name Recorded as Current.	NA	STU / Curr_Fst
Current Middle Initial	65-65	1	Char.	Middle Initial Recorded as Current.	NA	STU / Mid_Init
Date of Birth	66-73	8	Num.	D.O.B. Recorded as Current.	NA	STU / DOB
Filler	74-138	65	Num.	Filler	NA	NA
Anticipated Completion Date	139-146	8	Num.	Student's anticipated completion that would make the status change.	NA	STU_BR/Antic_ Compl_Dt
Filler	147-289	143	Num.	Filler	NA	NA
Current Enrollment Code	290-290	1	Char.	Enrollment Status Code	NA	STU_STAT/ Enrl_Code
Current Effective Date	291-298	8	Num.	Date the Enrollment Code is effective.	NA	STU_STAT/EFF_ DT

Data Element	Field Position	Length	Type	Description	Edits	Mapping
School Code	299-304	6	Char.	First 6 positions of OPE-ID for the school that reported the enrollment.	NA	SCH/Code
Branch Code	305-306	2	Char.	Last 2 positions of OPE-ID for the school that reported the enrollment.	NA	SCH_BR/Code
Date	307-314	8	Char.	Date as of which a school certified enrollment information for a student.	NA	STU_STAT/Cert_Date
Filler	315-336	22	Num.	Filler	NA	NA

Trailer Record Layout

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Sequence Number	1-7	7	Char	9999999	NA	SSCR_Transmittal_Detail/D_SSCR_Sequence_Number
Confirm text	8-26	19	Char	'SSCR ROSTER TRAILER'	NA	NA
Total rec sent	27-34	8	Char	Number with leading 0's total detail records in file	NA	NA
Filler	35-336	302	Num	Filler	NA	NA