



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:  
Student Aid Internet Gateway  
Destination File Interface  
**I-SAIG-1**

Version 1.1

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## Document Control

Version Number	Description	Release Date	Author
1.0	Initial Issue	11/08/2002	Troy Edwards
1.1	Changed name of interface in summary section on page 3.	11/26/2002	Troy Edwards

## 1 Student Aid Internet Gateway (SAIG)

NSLDS II will send and receive three daily files to and from the Student Aid Internet Gateway (SAIG) system. The incoming files from SAIG include:

- Destination File - Contains detailed SAIG mailbox location information.
- Letter of Application (LOA) File - Contains a listing by organization of specific NSLDS II functionally requested by that institution.
- Batch User File – Contains detailed batch user information. (Not yet in Production in legacy NSLDS).

The three outgoing files from NSLDS II to SAIG include:

- School Demographics – Contains school demographic information.
- Guaranty Agency (GA) Demographics – Contains GA demographic information.
- Lender Demographics – Contains lender demographics information.

The SAIG interfaces include:

- Destination File (**Section 1.2**)
- Letter of Application File (**See Document I-SAIG-2**)
- Batch User File (**See Document I-SAIG-3**)
- School Demographics (**See Document I-SAIG-4**)
- Guaranty Agency Demographics (**See Document I-SAIG-5**)
- Lender Demographics (**See Document I-SAIG-6**)

### 1.1 System Specifics

#### 1.1.1 NSLDS II

<b>Item</b>	<b>Description</b>
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 / V5.1 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 SAIG

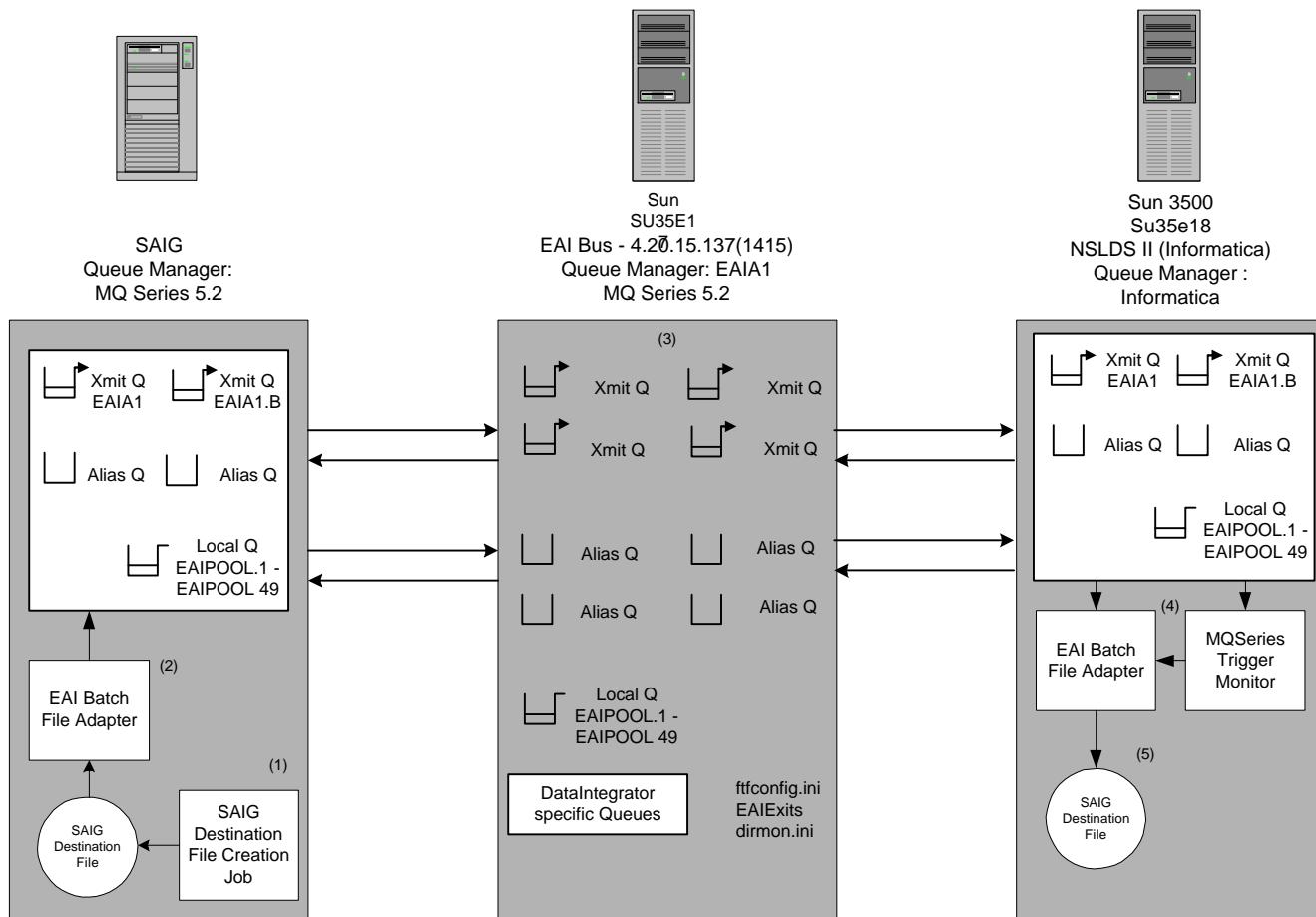
<b>Item</b>	<b>Description</b>
Production Platform <i>(Vendor/Product Name/Version)</i>	HP / L3000
Operating System <i>(Vendor/Product Name/Version)</i>	HP Unix v 11.0
DBMS <i>(Vendor/Product Name/Version)</i>	Oracle v8.17
Transmission Protocol	TCP/IP
Production System IP Address	4.20.17.220
Production System Location	Meriden, CT (VDC)
Contracting Organization	NCS Pearson
Developer Location	Iowa City, Iowa

## 1.2 Destination File

### 1.2.1 Interface Control Specifications

<b>Interface Name:</b>	Destination File
<b>Interface Type/Direction:</b>	Unidirectional, Batch Type
<b>Interface Short Description:</b>	This document defines the processes utilized by NSLDS II to receive and process the Destination File sent by SAIG through the EAI BUS.  SAIG creates the Destination File and submits it to NSLDS II through the EAI BUS. This file contains SAIG destination point address information. This file does not interact with the NSLDS II database, instead it will reside on the NSLDS II system and be used by other processes to aid in file transfers to/from SAIG and the B-Trade mailbox system.
<b>Requesting Application: or Source Application:</b>	SAIG is the source of the Destination File
<b>Responding Application: or Destination Application:</b>	NSLDS II receives the Destination File
<b>Detailed Technical Requirement References:</b>	5.067
<b>Interface Usage Frequency:</b>	Daily
<b>Interface Usage Volume:</b>	Varies
<b>Output Media:</b>	Flat File in EBCDIC Format
<b>Transmission Mechanism:</b>	EAI BUS

### 1.2.2 Interface Flow



### 1.2.3 Interface Flow Description

1. The SAIG system will initiate a process to create the Destination 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 Informatica server
5. The Destination File will remain on the NSLDS II Informatica server and will be used to facilitate the transfer of file to/from SAIG and the B-Trade mailbox system

### 1.2.4 Source System Functional Specifications

#	Responsibility
1	SAIG will create the Destination File 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	<p>File submittal data elements are defined as character, numeric, or date fields, where:</p> <ul style="list-style-type: none"> <li>• Character fields may contain letters, numbers, or blanks.</li> <li>• Numeric fields must only contain numbers.</li> <li>• 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"> <li>– CC = 2 digits for century</li> <li>– YY = 2 digits for year</li> <li>– MM = 2 digits for month</li> <li>– DD = 2 digits for day</li> </ul> </li> </ul> <p>The following default values are used in the following types of fields:</p> <ul style="list-style-type: none"> <li>• Character fields—must be filled with spaces.</li> <li>• Numeric fields—must be filled with zeroes.</li> <li>• Date fields—must be filled with zeroes.</li> </ul>
4	An EAI batch file adapter will be supplied to initiate the file transfer from SAIG to NSLDS II
5	SAIG will provide the EAI adaptor file transfer utility with the following input parameters: Input File Name – TBD

### 1.2.5 Destination System Functional Specifications

#	<b>Responsibility</b>
1	The EAI BUS will deliver the Destination File to the NSLDS II 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 Destination File will remain on the NSLDS II (Informatica) server for later use.

### 1.2.6 Interface Assumptions

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

#### 1.2.7 Error Messages

<b>Code</b>	<b>Message</b>
NA	NA

## 1.2.8 File Layout

### Detail Record Layout

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Destination ID	1 – 7	7	Char.	From new LOA Destination ID.	N/A	N/A
Organization Name	8 – 42	35	Char.	From new LOA Organization Name.	N/A	N/A
Address 1	43 – 70	28	Char.	From new LOA Address 1.	N/A	N/A
Address 2	71 – 98	28	Char.	From new LOA Address 2.	N/A	N/A
City	99 – 115	17	Char.	From new LOA City.	N/A	N/A
State	116 – 117	2	Char.	From new LOA State.	N/A	N/A
Zip Code (first 5)	118 – 122	5	Num.	From new LOA Zip Code (first 5). Use 00000 if spaces.	N/A	N/A
Zip Code (last 4)	123 – 126	4	Num.	From new LOA Zip Code (last 4). Use 0000 if spaces.	N/A	N/A
Destination Type	127 – 127	1	Char.	From new LOA Destination Type.	N/A	N/A
Service Code	128 – 129	2	Char.	Spaces	N/A	N/A
Software Type	130 – 130	1	Char.	From new LOA Software Type. If M use M, if P use D, else use space.	N/A	N/A
GES ID	131 – 137	7	Char.	Spaces	N/A	N/A

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Direct Loan Indicator	138 – 138	1	Char.	Spaces	N/A	N/A
Filler	139 – 140	2	Char.	Spaces	N/A	N/A