

SFA Modernization Partner
United States Department of Education
Student Financial Assistance



EAI Core Services
Questionnaire

Task Order #54
Deliverable # 54.1.2

September 7, 2001



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1 Executive Summary

1.1 Purpose

The Student Financial Assistance (SFA) Integration Architecture will integrate SFA's existing legacy systems and provide support for future development efforts that require access to common data. The integration architecture will provide the messaging infrastructure for connectivity between existing legacy systems, commercial off-the-shelf (COTS) applications, and Web-based solutions.

The implementation of the Integration Architecture requires connecting the Enterprise Application Integration (EAI) bus to existing SFA legacy systems. In order to provide EAI connectivity between existing legacy systems, commercial off-the-shelf (COTS) applications, and Web-based solutions, each system will require additional EAI software components.

The EAI software components will be defined by key system information, including hardware and software specifications, business processes, and interface details. The *EAI Core Services Questionnaire* will be used to collect this information on SFA systems. The information gathered through the use of the questionnaire will facilitate the design of SFA's Integration Architecture.

1.2 Approach

This questionnaire was created to quickly gather responses to general systems and interface information, to be used to determine the requirements for connecting new or existing systems to the SFA integration architecture. The questionnaire captures the information required to design the MQSeries messaging capabilities between the EAI bus and new or existing systems, and to support SFA development efforts in utilizing the system connectivity.

Information gathered through the *Legacy System Inventory Report* (Deliverable 16.1.1) will be integrated into the questionnaire prior to distributing it to the application teams. The assistance of the application teams will be requested to complete the questionnaire.

1.3 Description of Sections

The EAI Core Services Questionnaire is divided into the following sections:

- Section 1 outlines the purpose and guidelines of the document.
- Section 2 provides questions requesting for general system and interface information.
- Section 3 includes questionnaires completed by the legacy and new application teams.
- Section 4 - Appendix should include any additional technical and operational documentation, specifically referenced or attached with responses.



1.4 Scope

The EAI Core Services Questionnaire will include information for systems that are currently interfacing with the EAI architecture. Questionnaire answers have been extracted from the *Legacy System Inventory Report* (Deliverable 16.1.1) or provided by the application team. The following systems are included in this document:

- Central Processing System (CPS)
- Direct Loan Servicing System (DLSS)
- Financial Management System (FMS)
- Electronic Master Promissory Note Component of the Loan Origination Web System (eMPN-LO Web System)
- National Student Loan Data System (NSLDS)
- Post-Secondary Education Participants Systems (PEPS)
- Promissory Note Imaging System (P-Note Imaging)

1.5 Intended Audience

The EAI Core Services Questionnaire is intended for functional and technical application teams who can provide general systems and interface information. The information gathered in this document will be used to determine the requirements for design of the SFA Integration Architecture.



2 System and Interface Overview

The following will capture technical and operational information about the system and its interfaces in order to build the core services of the Integration Architecture. This section includes information about the system’s description, platforms, and external interfaces.

2.1 General System Information

This section outlines application platform information, physical locations of environments, key system contacts, external interfaces to the system, and data store information.

2.1.1 Application Identification

Application name	
Application acronym	
Provide a detailed explanation of the application’s business usage	
Date Questionnaire Completed/Revised	
Source of data	
Data Collector	

2.1.2 Application Platform Information

Complete a separate platform section for each platform used by the application.

Platform 1	
Logical Platform Name OR Description	
Hardware Platform	
Operating System	
OS Version	
OS Patches	
DBMS	



Transmission Protocol	
IP Address	
Node Name	
MQSeries Intercommunication Port	<i>MQSeries uses IP Port 1414 as a default for intercommunication. Is this port available? If not, please specify an available port number for MQSeries intercommunication.</i>
System Access	<i>Does the EAI Core development team have connectivity to the system from their location? Is this system only accessible through the EDNet network?</i>
List all programming languages used	
Compiler tool(s) and version(s)	

2.1.3 Source System Additional Information

Security Access Requirements	
Contracting Organization	
Developer Location	

2.1.4 Environments

List all of the application's environments and physical locations.

Environment	Location
Development	
Test	



Production	
Other	

2.1.5 Contacts

Title/Role	Name	Contact Number	E-mail
SFA System Owner			
System Security Officer			
Systems Administrator			
EAI Team Liaison			
Technical SME			
Functional SME (developer)			
Contact for Development Access			
Contact for Production Access			

2.1.6 System Context Diagram

Provide a high-level context diagram showing this system with all the major interfaces. The diagram should also depict the system's inputs and outputs.

[Insert diagram]



2.1.7 External Interfaces

List all of the system's interfaces to external systems.

-
-
-

2.1.8 Data Sources

Provide details on the type and structure of data stores (e.g., databases, flat-files, VSAM, etc.) used to support this system.

Data Store	Version	Platform	Description

2.2 Interface Overview: Transactions/External Interfaces

Information regarding external system interfaces is particularly important in determining the scope of requirements for integration between the EAI infrastructure and the application. External interfaces are defined as systems/applications outside the immediate domain of the subject system. Generally, external interfaces support connectivity to other systems. Respondents are encouraged to provide as much detail and supporting documentation as possible. Graphical representation of interfaces is of particular value in defining these specifics.

2.2.1 Interface #1 (Repeat for Each System Interface)

The following section should be completed for each external interface. Information regarding each interface will include general interface details, a flow diagram, interface transactions and transaction volumes, system availability, and system security.



2.2.1.1 Interface Description

1. Interface Designation (name or label by which the interface is referred)	
2. Interface Short Description	
3. Interfacing System(s)	
4. Interface Mode (online or batch)	<input type="checkbox"/> Online <input type="checkbox"/> Batch <input type="checkbox"/> Other (please specify)
5. Interface Direction (target system viewpoint)	<input type="checkbox"/> Outgoing/outbound <input type="checkbox"/> Incoming/inbound <input type="checkbox"/> Both
6. Interface Data Format	
7. Interface Data Processing (Describe all processing [e.g., copying data, writing to log files, backing up data, etc.] the interface performs on data.)	
8. Interface Protocol (data transmission protocols used to support interface.)	<input type="checkbox"/> TCP/IP <input type="checkbox"/> FTP <input type="checkbox"/> HTTP <input type="checkbox"/> SNA <input type="checkbox"/> Other (please specify)
9. Interface Encryption (Does the interface support encryption? If so, what algorithm/product is used?)	<input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes" is checked, please specify one of the following: <input type="checkbox"/> DES <input type="checkbox"/> RCA <input type="checkbox"/> PGP <input type="checkbox"/> Other (please specify)



10. Are protocols or formats used to ensure message integrity (i.e. message digest, digital signature)	<input type="checkbox"/> Yes <input type="checkbox"/> No
11. Can the interface recover from a crash without permanent data loss?	<input type="checkbox"/> Yes <input type="checkbox"/> No
12. What are the interface's response time requirements?	
13. Interface usage frequency	
14. Interface usage volume	
15. List any vendor(s) and software licensed to support this interface.	

2.2.1.2 Interface Flow Diagram

Provide a high-level diagram that depicts the flow of control between the system and its online and batch interfaces.

[Insert diagram]

2.2.1.3 Interface Transactions and Transaction Volumes

The table below lists questions related to the application's business and IT transactions. Business transactions are transactions that support a particular business function (e.g., update address). IT transactions are application-level or system-level transactions that support business transactions (e.g., standardize the address according to USPS standards, update the HR database with the new address, update the organization directory with the new address, etc.). One business transaction can spawn more than one IT transactions.



Questions	Transaction Name(s)
1. Business Transactions Supported by Interface	
2. Access Type (Batch, Online Request-Response, or Real-Time Interactive)	
3. Business Transaction Volume Supported by this Interface	
4. Please define any seasonal specifics (Certain interfaces encounter volume fluctuations depending on the time of year and the various academic dependencies. Please provide details on whether or not this interface is subject to such dependencies.)	
5. Data Volume per Transaction (i.e. What are the maximum message lengths?)	
6. # of IT Transactions per Business Transaction	
7. What is the maximum number of IT transactions per hour that must be supported by the interface?	
8. What is the growth projection for the interface throughput over the next three (3) years?	



Questions	Transaction Name(s)
9. How many concurrent users (average and peak) will the application support?	Average: Peak:
10. What are the assumptions about key capacity metrics?	

2.2.1.4 System Availability

Please provide information on the system’s availability, as well as the business impact of lost availability. (Provide details on the period of time that the system and its interfaces must be available. Some of the system’s interfaces must be available on demand while others are based on scheduled availability.)

1. What are the system’s peak and off-peak times?	
2. What is the uptime percent (percentage of time during which the system is functioning and available) during peak hours?	
3. What is the uptime percent during non-peak hours?	
4. What is the maximum acceptable time to recover from a single interface connection failure?	
5. Does a reply timeout exist? If so, what is its duration?	



6. What is the maximum response time degradation acceptable under load?	
7. What is the average percentage of transactions that fail and require reprocessing?	
8. What is the acceptable window for any required real-time processing?	
9. What is the acceptable window for any required batch operations?	
10. Do other systems that provide required data meet the availability profile of this application?	
11. Does the user interface portion of the application system need to be operational during real-time updates?	
12. Does the user interface portion of the application system need to be operational during batch updates?	
13. Can a replicated version or subset of the database fulfill availability requirements when the production database is offline for real-time processing?	



14. Can a replicated version or subset of the database fulfill availability requirements when the production database is offline for batch processing?	
15. If your answer to question 11 is "YES", then what would be the required currency of the replicated data?	

2.2.1.5 System Security

Describe the system's security measures. Include information on user groups, and if the system is a mainframe include LPAR or region information. (Please provide specifics on the tools/products and procedures that are used to control online access to the application.)

1. Does the system operation environment use/require a single point for Identification, Authentication and Access Control? (Please specify any software that is required.)	
2. Do users or applications require identification and authentication?	
3. Do any transactions or actions need to be authorized?	
4. Does the application maintain a history/audit log of messages sent and received?	
5. Does the application prevent information from being viewed by	



unauthorized parties?	
6. Does the application track inactivity?	
7. Where is security access defined and enforced?	
8. Is there a hierarchy (i.e. role-based groups) for organizing authorization so that access rights do not have to be individually assigned?	

3 System Questionnaires

3.1 Completed Questionnaire for Central Processing System (CPS)

3.1.1 General System Information for CPS

This section outlines application platform information, physical locations of environments, key system contacts, external interfaces to the system, and data store information.

Note: TIVWAN architecture has now been reengineered to include the bTrade COTS product.

3.1.1.1 Application Identification

Application name	Central Processing System
Application acronym	CPS
Provide a detailed explanation of the application's business usage	<p>CPS is a mainframe application that is responsible for receiving Free Applications for Federal Student Aid (FAFSA), validating data, and determining the eligibility of a student to receive financial aid. Once the validation has been performed, CPS prints a Student Aid Report (SAR) for the student and transmits Institutional Student Information Records (ISIR) to schools and state agencies.</p> <p>The Web application is responsible for allowing students to complete and submit FAFSA applications via the Internet and providing a PIN registration site for PIN requests and user authentication. User authentication are for renewal applications and corrections done on the Web.</p>



Date Questionnaire Completed/Revised	June 9, 2001
Source of data	Completed using information provided in <i>Legacy System Inventory Report</i> (Deliverable 16.1.1).
Data Collector	

3.1.1.2 Application Platform Information

Complete a separate platform section for each platform used by the application.

Platform 1	
Logical Platform Name OR Description	Development/Production Server
Hardware Platform	IBM 9672 - R35
Operating System	OS/390
OS Version	R35/2.8
OS Patches	
DBMS	DB2
Transmission Protocol	TCP/IP SNA-LU
IP Address	
Node Name	
MQSeries Intercommunication Port	<i>MQSeries uses IP Port 1414 as a default for intercommunication. Is this port available? If not, please specify an available port number for MQSeries intercommunication.</i>
System Access	<i>Does the EAI Core development team have connectivity to the system from their location? Is this system only accessible through the EDNet network?</i>
List all programming languages used	



Compiler tool(s) and version(s)	
---------------------------------	--

3.1.1.3 Source System Additional Information

Security Access Requirements	
Contracting Organization	
Developer Location	

3.1.1.4 Environments

List all of the application’s environments and physical locations.

Environment	Location
Development	Virtual Data Center (VDC) – Meriden, CT.
Test	Virtual Data Center (VDC) – Meriden, CT.
Production	Virtual Data Center (VDC) – Meriden, CT.
Other	

3.1.1.5 Contacts

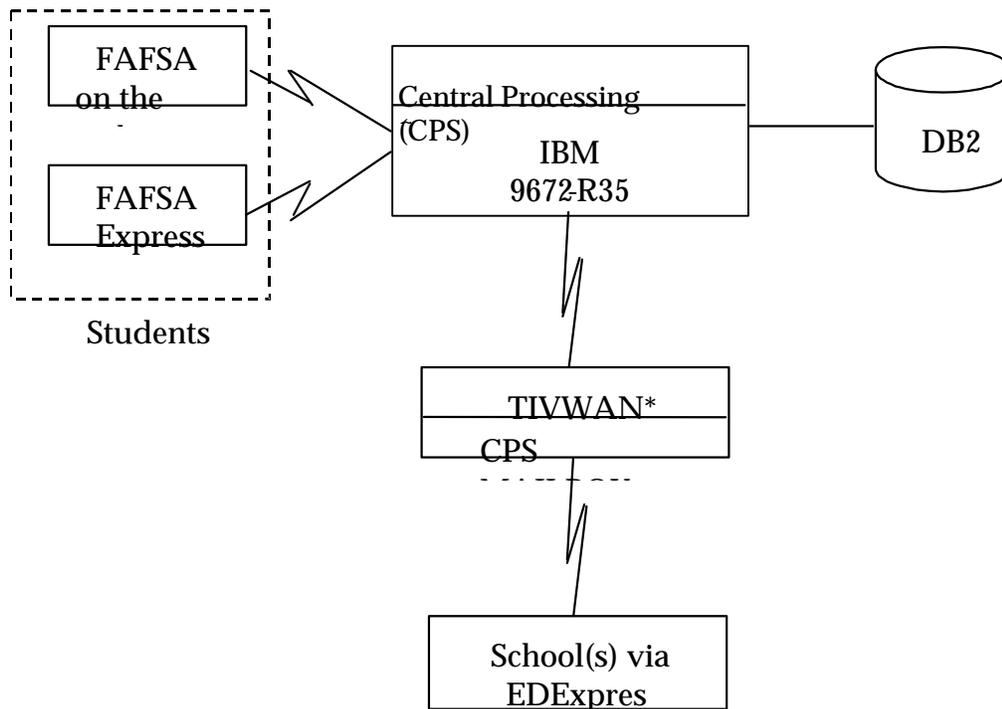
Title/Role	Name	Contact Number	E-mail
SFA System Owner	Jeanne Saunders	202-708-9874	Jeanne_Saunders@ed.gov
System Security Officer	Nancy Reynolds, who is the COTR. The Security Officer (Paul Mathis) is on extended sick leave.		Nancy_Reynolds@ed.gov
Systems Administrator	Ben Smith (CSC)	202- 317-2178	bsmith1@csc.com
	Gabriel Perez (DBA)	319-339-6063	PereGa@ncs.com



Title/Role	Name	Contact Number	E-mail
EAI Team Liaison			
Technical SME			
Functional SME (developer)			
Contact for Development Access	Jim Cunningham	202-708-8188	James_Cunningham@ed.gov
Contact for Production Access	Jim Cunningham	202-708-8188	James_Cunningham@ed.gov

3.1.1.6 System Context Diagram

Provide a high-level context diagram showing this system with all the major interfaces. The diagram should also depict the system's inputs and outputs.



*TIVWAN architecture has now been reengineered to include the bTrade COTS product.



3.1.1.7 External Interfaces

List all of the system's interfaces to external systems.

- RFMS
- State Grant and Scholarship Agency
- Title IV Wide Area Network (TIVWAN)
- State Guaranty Agencies
- National Student Loan Database Systems (NSLDS)
- Ed-Express
- FAFSA On the Web
- FAFSA Express
- Multiple Data Entry
- Internal Revenue Service
- Selective Service
- Social Security Administration (SSA)

3.1.1.8 Data Sources

Provide details on the type and structure of data stores (e.g., databases, flat-files, VSAM, etc.) used to support this system.

Data Store	Version	Platform	Description

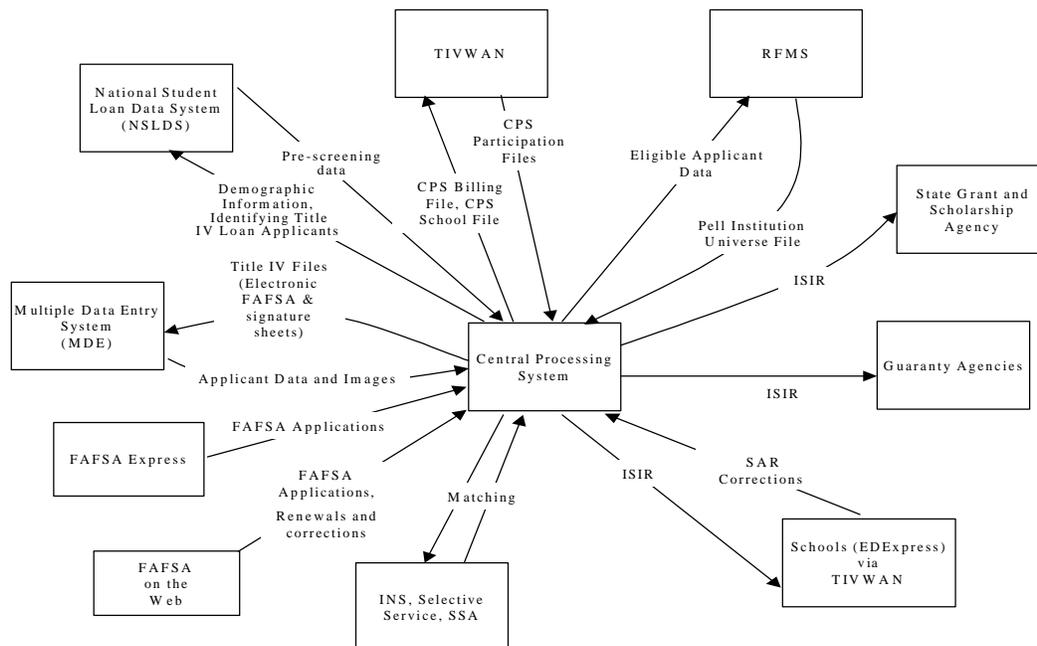


3.1.2 Interface Overview for CPS

Information regarding external system interfaces is particularly important in determining the scope of requirements for integration between the EAI infrastructure and the application. External interfaces are defined as systems/applications outside the immediate domain of the subject system. Generally, external interfaces support connectivity to other systems. Respondents are encouraged to provide as much detail and supporting documentation as possible. Graphical representation of interfaces is of particular value in defining these specifics.

- The following interface overview information was completed using information provided in *Legacy System Inventory Report (Deliverable 16.1.1)*.

3.1.2.1 CPS Global Batch Interfaces



3.1.2.2 Incoming Interfaces

Provide detail on the structure and format of all input files into this system.

System	Action	Object	System	Frequency	Volume of Data Processed



System	Action	Object	System	Frequency	Volume of Data Processed
CPS	Receives	Pell Institution Universe File	RFMS	Daily	5500 records per transmission
	Receives	SAR corrections	Schools (ED-Express) via TIVWAN	Daily	3000 records per day
	Receives	CPS Participation Files	TIVWAN	Daily	**SEE NOTE BELOW
	Receives	Matching	INS (external)	Daily	50 records per batch
	Receives	Matching	Selective Service (external)	Daily	50 records per batch
	Receives	Matching	SSA (external)	Daily	50 records per batch
	Receives	Applicant Data	MDE	Daily	16,800 records per day
	Receives	Applicant Images	MDE	Daily	1700 records per day
	Receives	FAFSA Applications, renewals, corrections	FAFSA on the web	Daily	3500 records per day
	Receives	FAFSA Applications (via dial in modem)	FAFSA Express (external)	Daily	3500 records per day

**** TIVWAN processes an average of 44 GB of data per month. This information is processed evenly throughout the day.**

3.1.2.3 Outgoing Interfaces

Provide detail on the structure and format of output files from this system.



System	Action	Object	System	Frequency	Volume of Data Processed
CPS	Sends	Eligible Applicant File	RFMS	Daily	9 million per school year
	Sends	Institutional Student Information Record (ISIR)	State Grant and Scholarship Agency (external)	Daily	15,340 records per day
	Sends	ISIR	Schools (EDEXpress) via TIVWAN	Daily	15,340 records per day
	Sends	ISIR	Guaranty Agencies (external)	Daily	15,340 records per day
	Sends	Student demographic info, Identifying Title IV Loan Applicants	NSLDS	Quarterly	varies
	Sends	pre-screening data	NSLDS	Daily	Varies
	Sends	CPS Billing File	TIVWAN	Weekly	**See note below
	Sends	CPS School File	TIVWAN	Weekly	**See note below
	Sends	Matching	INS (external)	Daily	50 records per batch
	Sends	Matching	Selective Service (external)	Daily	50 records per batch
	Sends	Matching	SSA (external)	Daily	50 records per batch
Sends	Title IV files	MDE	Daily	16,800 records per day	

**** TIVWAN processes an average of 44 GB of data per month. This information is scheduled to be processed evenly throughout the day**



3.2 Completed Questionnaire for Direct Loan Servicing System (DLSS)

3.2.1 General System Information for DLSS

This section outlines application platform information, physical locations of environments, key system contacts, external interfaces to the system, and data store information.

3.2.1.1 Application Identification

Application name	Direct Loan Servicing System
Application acronym	DLSS
Provide a detailed explanation of the application's business usage	The Direct Loan Servicing System (DLSS) tracks loans received from the booking process, through the in-school period, and through payoff from either the borrower or the Department of Education (defaulted loan).
Date Questionnaire Completed/Revised	June 9, 2001
Source of data	Completed using information provided in <i>Legacy System Inventory Report</i> (Deliverable 16.1.1).
Data Collector	

3.2.1.2 Application Platform Information

Complete a separate platform section for each platform used by the application.

Platform 1	
Logical Platform Name OR Description	Development/Production Server A
Hardware Platform	DEC Alpha
Operating System	Open VMS, AIX
OS Version	8400
OS Patches	
DBMS	Oracle RDB
Transmission Protocol	TCP/IP, DECNet
IP Address	
Platform 2	



Logical Platform Name OR Description	Production Server B
Hardware Platform	DEC VAX
Operating System	Open VMS, AIX
OS Version	7610
OS Patches	
DBMS	Oracle RDB
Transmission Protocol	TCP/IP, DECNet
IP Address	
Platform 3	
Logical Platform Name OR Description	Production Server C
Hardware Platform	RISC 6000
Operating System	Open VMS, AIX
OS Version	6000
OS Patches	
DBMS	Oracle RDB
Transmission Protocol	TCP/IP, DECNet
IP Address	
Platform 4	
Logical Platform Name OR Description	Production Server D
Hardware Platform	VAX 7000
Operating System	Open VMS, AIX
OS Version	7000
OS Patches	
DBMS	Oracle RDB
Transmission Protocol	TCP/IP, DECNet
IP Address	



MQSeries Intercommunication Port	<i>MQSeries uses IP Port 1414 as a default for intercommunication. Is this port available? If not, please specify an available port number for MQSeries intercommunication.</i>
System Access	<i>Does the EAI Core development team have connectivity to the system from their location? Is this system only accessible through the EDNet network?</i>
List all programming languages used	
Compiler tool(s) and version(s)	

3.2.1.3 Source System Additional Information

Security Access Requirements	
Contracting Organization	
Developer Location	

3.2.1.4 Environments

List all of the application’s environments and physical locations.

Environment	Location
Development	Rockville, MD
Test	Rockville, MD
Production	Rockville, MD
Other	



3.2.1.5 Contacts

Title/Role	Name	Contact Number	E-mail
SFA System Owner	Dan Hayward	202-205-0038	Dan_Hayward@ed.gov
System Security Officer			
Systems Administrator			
EAI Team Liaison			
Technical SME			
Functional SME (developer)			
Contact for Development Access			
Contact for Production Access			

3.2.1.6 System Context Diagram

Provide a high-level context diagram showing this system with all the major interfaces. The diagram should also depict the system's inputs and outputs.

[Insert Diagram]

3.2.1.7 External Interfaces

List all of the system's interfaces to external systems.

- Schools
- FFEL Guaranty Agencies Via the Web (EAPP)
- FFEL Guaranty Agencies Via a Chatter box
- National Student Loan Database System (NSLDS)



3.2.1.8 Data Sources

Provide details on the type and structure of data stores (e.g., databases, flat-files, VSAM, etc.) used to support this system.

Data Store	Version	Platform	Description

3.2.2 Interface Overview for DLSS

Information regarding external system interfaces is particularly important in determining the scope of requirements for integration between the EAI infrastructure and the application. External interfaces are defined as systems/applications outside the immediate domain of the subject system. Generally, external interfaces support connectivity to other systems. Respondents are encouraged to provide as much detail and supporting documentation as possible. Graphical representation of interfaces is of particular value in defining these specifics.

- The following interface overview information was completed using information provided in *Legacy System Inventory Report (Deliverable 16.1.1)*.



3.2.2.1 On-Line Interfaces:

System	Action	Object	System	Frequency	Communications (Asynchronous/Synchronous)	Volume of Data Processed
DLSS						

3.2.2.2 Batch Interfaces:

System	Action	Object	System	Frequency	Volume of Data Processed
DLSS	Sends	Direct loan info	NSLDS		
	Sends	Updated loan balances	CDS (for DLOS)		
	Receives	Booked student loans (loans and repayment info)	CDS (for DLOS)		
	Receives	Error transmittal file	NSLDS		
	Receives	Autodialer	CDSI (External)		
	Sends	Autodialer	CDSI (External)		
		Delinquent Borrower Report	Schools (External)		
	Receives	Central Database Router System	CDSI (External)		
	Sends	Central Database Router System	CDSI (External)		



System	Action	Object	System	Frequency	Volume of Data Processed
	Receives		Various Credit Bureaus (External)		
	Sends		Various Credit Bureaus (External)		
	Receives	Debt Collection Service (DCS)	Raytheon (External)		
	Sends	Debt Collection Service (DCS)	Raytheon (External)		
	Receives	Direct Loan Website	CDSI (External)		
	Sends	Direct Loan Website	CDSI (External)		
	Receives	FileNet	CDSI (External)		
	Sends	FileNet	CDSI (External)		
	Receives	National Student Loan Data System (NSLDS)	Raytheon /CSC (External)		
	Sends	National Student Loan Data System (NSLDS)	Raytheon /CSC (External)		



System	Action	Object	System	Frequency	Volume of Data Processed
	Receives	Voice Response Unit (VRU)	CDSI (External)		
	Sends	Voice Response Unit (VRU)	CDSI (External)		

3.3 Completed Questionnaire for Financial Management System (FMS)

3.3.1 General System Information for FMS

This section outlines application platform information, physical locations of environments, key system contacts, external interfaces to the system, and data store information.

3.3.1.1 Application Identification

Application name	SFA Financial Management System
Application acronym	SFA FMS
Provide a detailed explanation of the application's business usage	SFA FMS incorporates Funds Management, Payment Management, Receipts Management, General Ledger Management, Financial Management Reporting, Cost Management, Loan Portfolio Management, Budget Analysis and Development, Procurement and Contract Management, and Fixed Asset Management that span across SFA programs, channels, and systems. When completed SFA FMS will be able to provide financial, performance, and cost information across SFA programs (see p. 9); consolidate redundant processes and data; improve financial management controls; and provide the ability to report to Congress and other stakeholders either with summary or detailed financial information on SFA activities. SFA FMS will also serve as the interface to GAPS (and/or CPS?) for other SFA systems. The Voluntary Flexible Agreement (VFA) program is an optional addition to the Form 2000 process, and currently incorporates 4 Guaranty Agencies who will utilize this system in October 2001.



Date Questionnaire Completed/Revised	May 29, 2001
Source of data	Completed by FMS technical contact.
Data Collector	

3.3.1.2 Application Platform Information

Complete a separate platform section for each platform used by the application.

Platform 1	
Logical Platform Name OR Description	SFA FMS (all servers same hardware and OS) Refer to 2.1.3 for mapping between server and environment (e.g., development, test, production)
Hardware Platform	HP L- and V-class servers
Operating System	HP-UX
OS Version	11
OS Patches	
DBMS	
Transmission Protocol	
IP Address	HPL6-4.20.15.46 HPL7-4.20.15.45 HPL10-4.20.15.42 HPL11-4.20.15.41 HP-V2-4.20.15.40
Node Name	
MQSeries Intercommunication Port	<i>MQSeries uses IP Port 1414 as a default for intercommunication. Is this port available? If not, please specify an available port number for MQSeries intercommunication.</i> Port 1414 is not presently used by SFA FMS servers
System Access	<i>Does the EAI Core development team have connectivity to the system from their location? Is this system only accessible through the EDNet network?</i> NA? SFA FMS servers are located at the VDC. Telnet is supported on the EDNet network and via the Internet using SFA VPN authorization.



List all programming languages used	PL/SQL
Compiler tool(s) and version(s)	NA

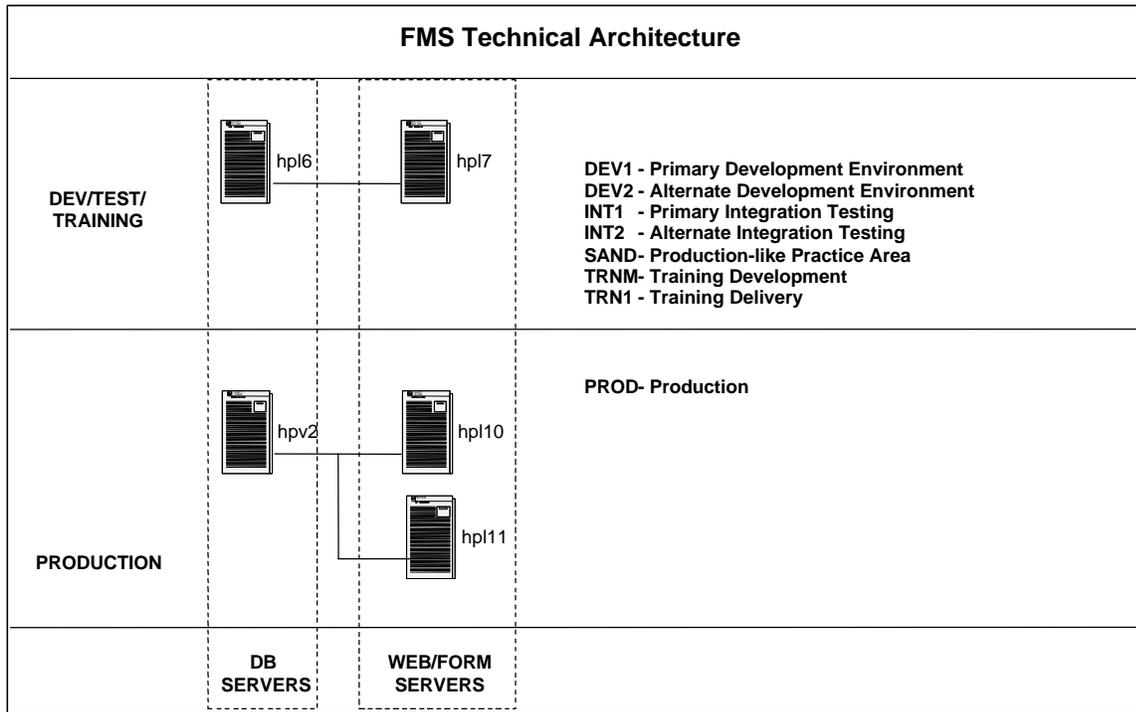
3.3.1.3 Source System Additional Information

Security Access Requirements	
Contracting Organization	
Developer Location	

3.3.1.4 Environments

List all of the application’s environments and physical locations.

Environment	Location
Development	HPL6 (DB), HPL7 (Application server): DEV1, DEV2
Test	HPL6 (DB), HPL7 (Application server): INT1, INT2
Production	HP-V2 (DB), HPL10 (Internal Application Server), HPL11 (External Application Server): PROD
Other	



3.3.1.5 Contacts

Title/Role	Name	Contact Number	E-mail
SFA System Owner	Paul Stonner	202-401-7536	Paul.Stonner@ed.gov
System Security Officer	Shirley Singleton	202-708-5663	Shirley.Singleton@ed.gov
Systems Administrator			
EAI Team Liaison			
Technical SME	Jeff Ross	202-651-3859	Jeffrey.Ross@ed.gov
	David Abrams	407-805-0903	Dave.Abrams@ed.gov
Functional SME (developer)	Bill Loepp	202-651-3628	William.Loepp@ed.gov

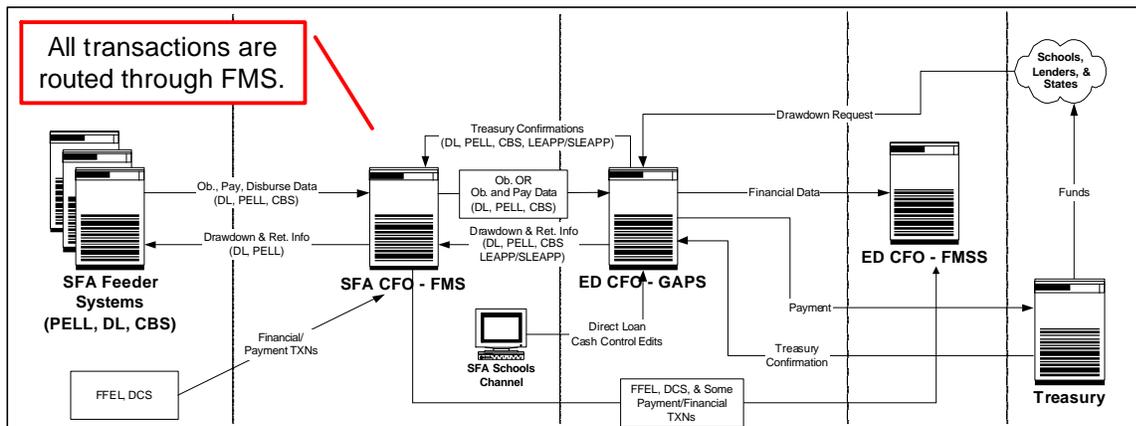


Title/Role	Name	Contact Number	E-mail
Contact for Development Access			
Contact for Production Access			

3.3.1.6 System Context Diagram

Provide a high-level context diagram showing this system with all the major interfaces. The diagram should also depict the system's inputs and outputs.

FMS Phase III Interface Requirements (August 2001):



Note: The system context diagram does not currently include the VFA program.

Future Releases – OCFO Interfacing Requirements:

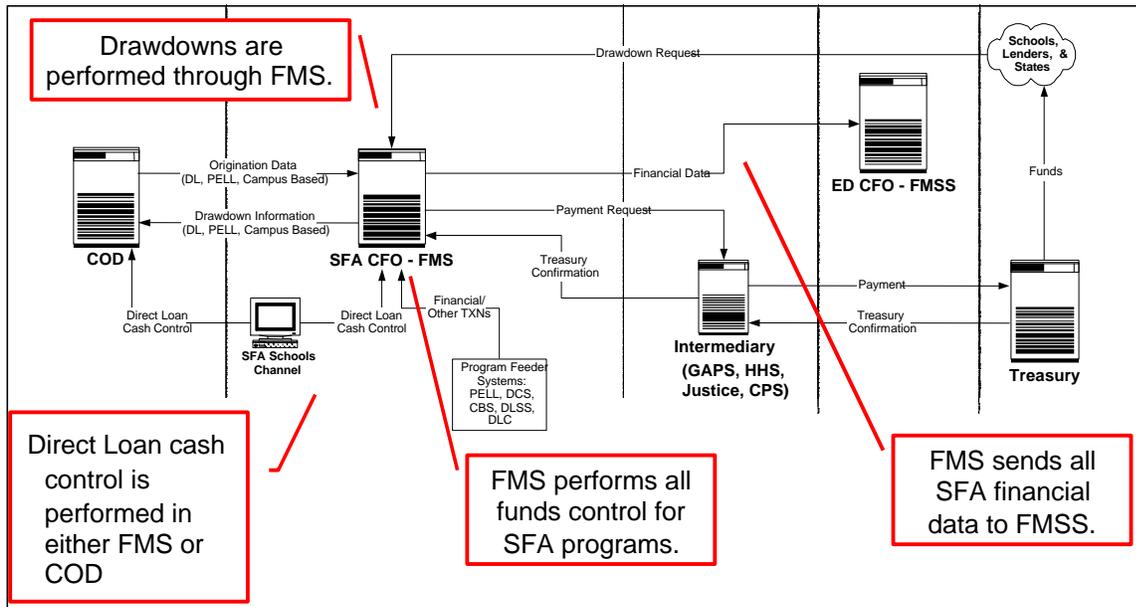
Preliminary design for FMS Phase IV has identified the following items that will need to be coordinated between the SFA-FMS and OCFO-GAPS systems:

- SFA-FMS will provide all of SFA's financial information to ED-FMSS.
- SFA Funds Control and Direct Loan Cash Control functionality will either be done in COD or move to the SFA-FMS system.



- SFA Drawdown and Refund Requests will be processed by the SFA-FMS system.

SFA will use GAPS, or another system (e.g., Central Processing System [CPS]), solely as an intermediary for payment batches being sent to Treasury.



Note: The system context diagram does not currently include the VFA program.

3.3.1.7 External Interfaces

List all of the system's interfaces to external systems.

FMS Phase III is expected to interface with the following systems:

- Campus-Based Feeder System
- Debt Collection System
- Direct Loan Origination
- Direct Loan Servicing
- Direct Loan Consolidation
- FFEL Lenders
- Pell RFMS



- LEAPP/SLEAPP (program only)
- GAPS (via SQL/Net link to red.ed.gov/blue.ed.gov)

3.3.1.8 Data Sources

Provide details on the type and structure of data stores (e.g., databases, flat-files, VSAM, etc.) used to support this system.

Data Store	Version	Platform	Description
GA Forms		Web and FTP -> Oracle Database	Forms received from Forms 2000 interface are sent via web (which enters the data directly into the database) or via FTP (which is processed nightly)
GAPS Database		red.ed.gov (development); blue.ed.gov (pseudo-production)	SQL/Net Link; provides read access to the following tables: CURRALLOC, GLCCOHORT_VALN, GLC_DGL_LOAD, GLC_FISCAL_YEAR_VALN, GLC_FUND_VALN, GLC_GL_ACCOUNT_VALN, GLC_LIM_CFDA_ACTY_VALN, GLC_OBJECT_VALN, GLC_ORGANIZATION_VALN
NSLDS		FTP -> Oracle Database	NSLDS data is received on an ad-hoc basis (i.e., not regularly) via FTP and processed.

Current production (Phase II) external system interfaces are provided via SQL/Net and FTP. FMS does not invoke, call and/or link directly or indirectly to other systems' application code. Interfaces are back-end data transfer only.

The proposed Phase III interfaces will be performed in a similar manner using SQL/Net, FTP (or other file transfer mechanism) and for back-end data transfer only.



3.4 Completed Questionnaire for Electronic Master Promissory Note Component of the Loan Origination Web System (eMPN-LO Web System)

3.4.1 General System Information for eMPN-LO Web System

This section outlines application platform information, physical locations of environments, key system contacts, external interfaces to the system, and data store information.

3.4.1.1 Application Identification

Application name	LO Web Site
Application acronym	LO Online, Entrance Counseling, eMPN
Provide a detailed explanation of the application's business usage	<p>The LO web site has 3 different applications on it targeted to service schools.</p> <p>The LO Online allows schools to process data against the Loan Origination System through a web interface. It supports all the same business rules that are implemented per the Technical Reference in real time so schools do not have to supply "batch" transactions.</p> <p>Entrance Counseling provides an interactive approach to educating students as to their obligations in receiving loans from the Federal Direct Student Loan Program (DSL). The student takes a tutorial and then a quiz on the material in the tutorial. Passing of the quiz signifies that the student has been counseled. Schools are required to demonstrate that students have been counseled before originating a loan through the DSL program. This application provides one approach that schools can use to ensure this obligation is met.</p> <p>The electronic Master Promissory Note (eMPN) application allows students to electronically complete and sign a promissory note for the school that is originating their loan. Schools can choose to have their students use the application by signing up for it (School Profile) through the LO Online application.</p>
Date Questionnaire Completed/Revised	June 13, 2001
Source of data	Completed by eMPN-LO Web System technical contact.
Data Collector	



3.4.1.2 Application Platform Information

Complete a separate platform section for each platform used by the application.

Platform 1	
Logical Platform Name OR Description	Loweb
Hardware Platform	HP L Class with 4 CPUs
Operating System	HPUX
OS Version	11.x
OS Patches	Yes – Managed by CSC
DBMS	
Transmission Protocol	
IP Address	4.20.15.156 (lo-online.ed.gov, dlenote.ed.gov)
Node Name	
MQSeries Intercommunication Port	<i>MQSeries uses IP Port 1414 as a default for intercommunication. Is this port available? If not, please specify an available port number for MQSeries intercommunication.</i>
System Access	<i>Does the EAI Core development team have connectivity to the system from their location? Is this system only accessible through the EDNet network?</i>
List all programming languages used	Java, and JavaScript
Compiler tool(s) and version(s)	JVM 1.3.01



3.4.1.3 Source System Additional Information

Security Access Requirements	
Contracting Organization	
Developer Location	

3.4.1.4 Environments

List all of the application’s environments and physical locations.

Environment	Location
Development	Same hardware, software, and environment as listed above. Machine is also at the VDC.
Test	Done on the Development server. Customer testing is done on the production server using a separate set of web and application servers.
Production	Listed above and is a separate machine located at the VDC.
Other	

3.4.1.5 Contacts

Title/Role	Name	Contact Number	E-mail
SFA System Owner	Rosemary Beavers		
System Security Officer	CSC		
Systems Administrator			
EAI Team Liaison			
Technical SME	Diana O’Hara/Ian Wilson	703-741-7405	diana.ohara@eds.com ian.s.wilson@eds.com
Functional SME (developer)	Diana O’Hara/Ian Wilson		



Title/Role	Name	Contact Number	E-mail
Contact for Development Access			
Contact for Production Access			

3.4.1.6 System Context Diagram

Provide a high-level context diagram showing this system with all the major interfaces. The diagram should also depict the system’s inputs and outputs.

[Insert diagram]

3.4.1.7 External Interfaces

List all of the system’s interfaces to external systems.

- LOS
- Surveyor for credit check processing
- DLS for transmittal of eMPN information

3.4.1.8 Data Sources

Provide details on the type and structure of data stores (e.g., databases, flat-files, VSAM, etc.) used to support this system.

Data Store	Version	Platform	Description
			Draws data from the LOS that uses a relational database (Informix)



3.5 Completed Questionnaire for National Student Loan Data System (NSLDS)

3.5.1 General System Information for NSLDS

This section outlines application platform information, physical locations of environments, key system contacts, external interfaces to the system, and data store information.

Note: TIVWAN architecture has now been reengineered to include the bTrade COTS product.

3.5.1.1 Application Identification

Application name	National Student Loan Database System
Application acronym	NSLDS
Provide a detailed explanation of the application's business usage	The National Student Loan Data System (NSLDS) is a national database of loan and grant-level data on the majority of Title IV programs. Through a mandate from Congress, NSLDS was intended to provide a consolidated research database as well as support operational functions of the agency and Title IV participants. The scope of the NSLDS has been broadened over time to include certain reasonability and adjunct accounting process validations. Its functionality extends to a broad base user community that accesses data through a query management facility and defined reporting structures.
Date Questionnaire Completed/Revised	June 9, 2001
Source of data	Completed using information provided in <i>Legacy System Inventory Report</i> (Deliverable 16.1.1).
Data Collector	

3.5.1.2 Application Platform Information

Complete a separate platform section for each platform used by the application.

Platform 1	
Logical Platform Name OR Description	Development/Production Server
Hardware Platform	IBM 9672
Operating System	OS/390
OS Version	Version 2.4



OS Patches	
DBMS	DB2
Transmission Protocol	TCP/IP
IP Address	
Node Name	
Platform 2	
Logical Platform Name OR Description	Development/Production Web Server
Hardware Platform	Compaq 1850R
Operating System	Windows NT
OS Version	4.0
OS Patches	
DBMS	N/A
Transmission Protocol	Windows NT - SNA
Node Name	
MQSeries Intercommunication Port	<i>MQSeries uses IP Port 1414 as a default for intercommunication. Is this port available? If not, please specify an available port number for MQSeries intercommunication.</i>
System Access	<i>Does the EAI Core development team have connectivity to the system from their location? Is this system only accessible through the EDNet network?</i>
List all programming languages used	
Compiler tool(s) and version(s)	



3.5.1.3 Source System Additional Information

Security Access Requirements	
Contracting Organization	
Developer Location	

3.5.1.4 Environments

List all of the application’s environments and physical locations.

Environment	Location
Development	Virtual Data Center (VDC) – Meriden, CT.
Test	Virtual Data Center (VDC) – Meriden, CT.
Production	Virtual Data Center (VDC) – Meriden, CT.
Other	Development Web Server: Raytheon – Falls Church, VA Production Web Server: Virtual Data Center (VDC) – Meriden, CT.

3.5.1.5 Contacts

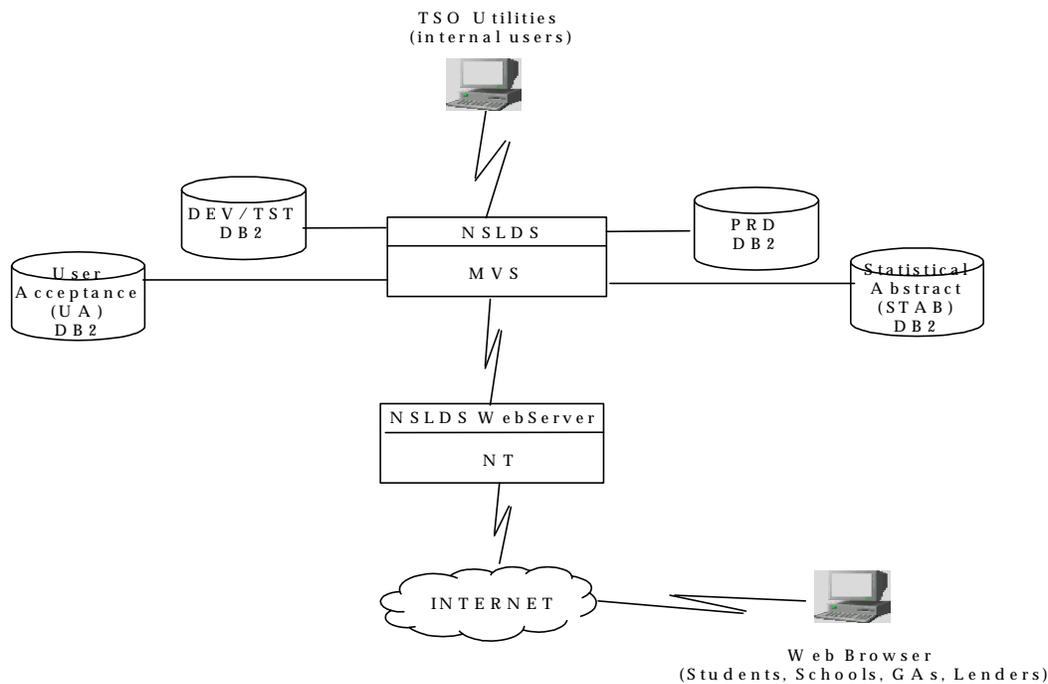
Title/Role	Name	Contact Number	E-mail
SFA System Owner	Lynn Alexander	202-205-7130	Lynn_Alexander@ed.gov
System Security Officer			
Systems Administrator	Leslie Willoughby	703-560-5000 ext. 3329	Lwilloughby@fallschurch.esys.com
EAI Team Liaison			
Technical SME			
Functional SME (developer)			



Title/Role	Name	Contact Number	E-mail
Contact for Development Access	Barbara Ferencz	703-560-5000 ext. 3521	Bferencz@fallschurch.esys.com
Contact for Production Access	Mike Fillinich	703-560-5000 ext. 3322	MFillinic@fallschurch.esys.com

3.5.1.6 System Context Diagram

Provide a high-level context diagram showing this system with all the major interfaces. The diagram should also depict the system's inputs and outputs.



3.5.1.7 External Interfaces

List all of the system's interfaces to external systems.

- Department of Education
- Schools
- Federal Family Education Loan (FFEL) Guaranty Agencies Via the Web



- FFEL Servicers
- Direct Loan Servicer
- Debt Collection Services (DCS)

3.5.1.8 Data Sources

Provide details on the type and structure of data stores (e.g., databases, flat-files, VSAM, etc.) used to support this system.

Data Store	Version	Platform	Description

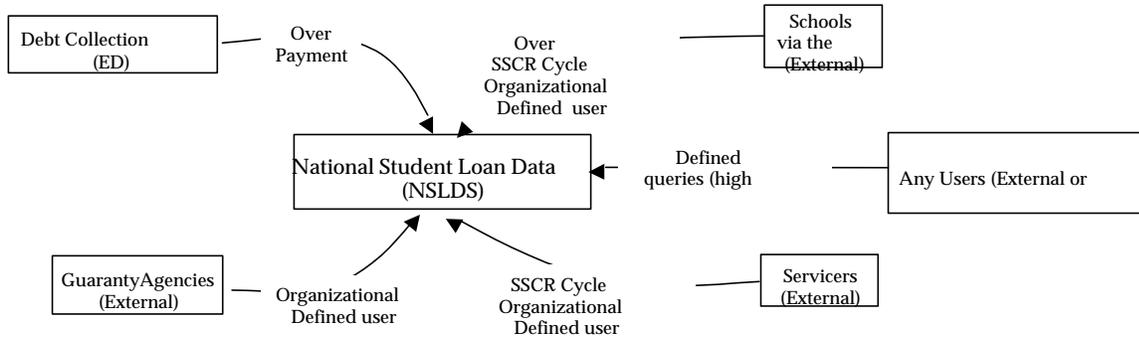
3.5.2 Interface Overview for NSLDS

Information regarding external system interfaces is particularly important in determining the scope of requirements for integration between the EAI infrastructure and the application. External interfaces are defined as systems/applications outside the immediate domain of the subject system. Generally, external interfaces support connectivity to other systems. Respondents are encouraged to provide as much detail and supporting documentation as possible. Graphical representation of interfaces is of particular value in defining these specifics.

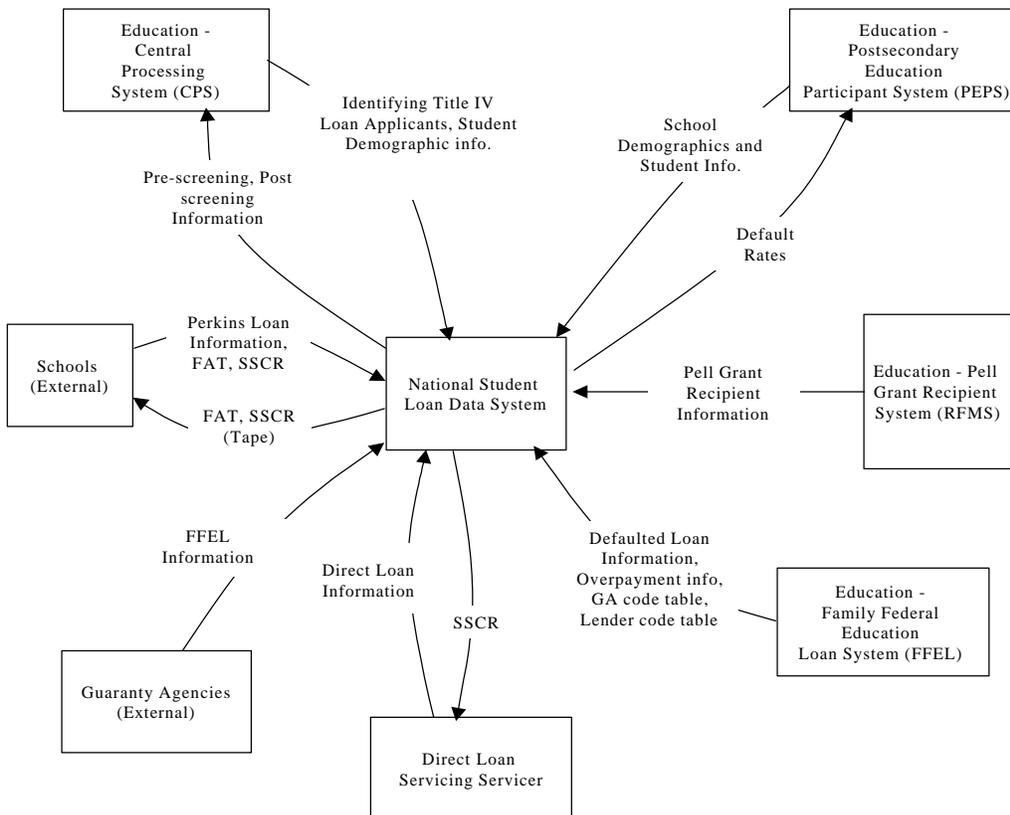
- The following interface overview information was completed using information provided in *Legacy System Inventory Report (Deliverable 16.1.1)*.



3.5.2.1 NSLDS Global On-Line Interfaces



3.5.2.2 NSDLS Global Batch Interfaces





3.5.2.3 Incoming Interfaces

Provide detail on the structure and format of all input files into this system.

3.5.2.3.1 Online Interfaces

System	Action	Object	System	Frequency	Communications (Asynchronous/ Synchronous)	Volume of Data Processed
NSLDS	Receives	Over-payments	Schools (External) & Debt Collection Service (ED)	Daily (via web)	Dependant on Access Method	Varies
	Receives	SSCR cycle updates	Schools/Servicers (External)	Daily (via web)	Dependant on Access Method	Varies
	Receives	Organizational Contacts	GA/Schools/ED/Servicers (External)	Daily (via web)	Dependant on Access Method	Varies
	Processes	Defined user queries (**)	GA/Schools/Servicers/ED/Congressional/Adjunct (External)	Daily (via web)	Dependant on Access Method	Varies

(**) Significant volume occurs in SQL processes which provide extract, cyclical process, and defined quantifiable reporting on specific activities within programs, systems, and locale (demographics) to comply with regulatory, statutory and portfolio management requirements.



3.5.2.3.2 Batch Interfaces

System	Action	Object	System	Frequency	Volume of Data Processed
	Receives	FFEL loans	Guaranty Agencies (External)	Monthly	Varies
	Receives	Perkins loan info	Schools/ Servicers (External)	Monthly	Varies
	Receives	Identifying Title IV loan applicants	CPS	Quarterly	Varies
	Receives	School demographics and status info	PEPS	Weekly	Varies
	Receives	Recipient info	RFMS	Weekly	Varies
	Receives	GA code table, lender code table	FFEL	Weekly	Varies
	Receives	Direct loan info	Direct Loan Servicing Service	Monthly	Varies
	Receives	FAT, SSCR	Schools (via EExpress)	Daily	Varies
	Receives	Student Demographic information	CPS	Quarterly	Varies
	Receives	Defaulted loan and overpayment information	DMCS - (FFEL)	Monthly	Varies



3.5.2.4 Outgoing Interfaces

Provide detail on the structure and format of output files from this system.

3.5.2.4.1 Batch Interfaces:

System	Action	Object	System	Frequency	Volume of Data Processed
NSLDS	Sends	SSCR, FAT (tape)	School Servicers (External)	Monthly	Varies
	Sends	Default rates	PEPS	(cycle specific)	Varies
	Sends	SSCR	Direct Loan Servicer	Monthly	Varies
	Sends	Pre-screening info, Post-screening info	CPS	On Demand	Varies
	Sends	SSCR, FAT	Schools TIVWAN mailbox	On Demand	Varies

3.6 Completed Questionnaire for Post-Secondary Education Participants System (PEPS)

3.6.1 General System Information for PEPS

This section outlines application platform information, physical locations of environments, key system contacts, external interfaces to the system, and data store information.

3.6.1.1 Application Identification

Application name	Post-secondary Education Participants System
Application acronym	PEPS
Provide a detailed explanation of the application's business usage	Post-secondary Education Participants Systems (PEPS) is used to provide a management information system with consistent and reliable data, and flexible reporting concerning post-secondary institutions, accrediting bodies, state licensing agencies, lenders, and guarantors, for a large number of users with diverse business



	needs.
Date Questionnaire Completed/Revised	June 9, 2001
Source of data	Completed using information provided in <i>Legacy System Inventory Report</i> (Deliverable 16.1.1).
Data Collector	

3.6.1.2 Application Platform Information

Complete a separate platform section for each platform used by the application.

Platform 1	
Logical Platform Name OR Description	Development/Production Server A
Hardware Platform	HP9000 T600
Operating System	HP/UX
OS Version	10.20
OS Patches	
DBMS	Oracle 7
Transmission Protocol	TCP/IP
IP Address	
Platform 2	
Logical Platform Name OR Description	Production Server B
Hardware Platform	Compaq Proliant 4000R
Operating System	Windows NT
OS Version	4.0
OS Patches	
DBMS	Oracle 7
Transmission Protocol	TCP/IP
IP Address	



MQSeries Intercommunication Port	<i>MQSeries uses IP Port 1414 as a default for intercommunication. Is this port available? If not, please specify an available port number for MQSeries intercommunication.</i>
System Access	<i>Does the EAI Core development team have connectivity to the system from their location? Is this system only accessible through the EDNet network?</i>
List all programming languages used	
Compiler tool(s) and version(s)	

3.6.1.3 Source System Additional Information

Security Access Requirements	
Contracting Organization	
Developer Location	

3.6.1.4 Environments

List all of the application’s environments and physical locations.

Environment	Location
Development	Fairfax, VA
Test	Virtual Data Center (VDC) – Meriden, CT.
Production	Virtual Data Center (VDC) – Meriden, CT.
Other	



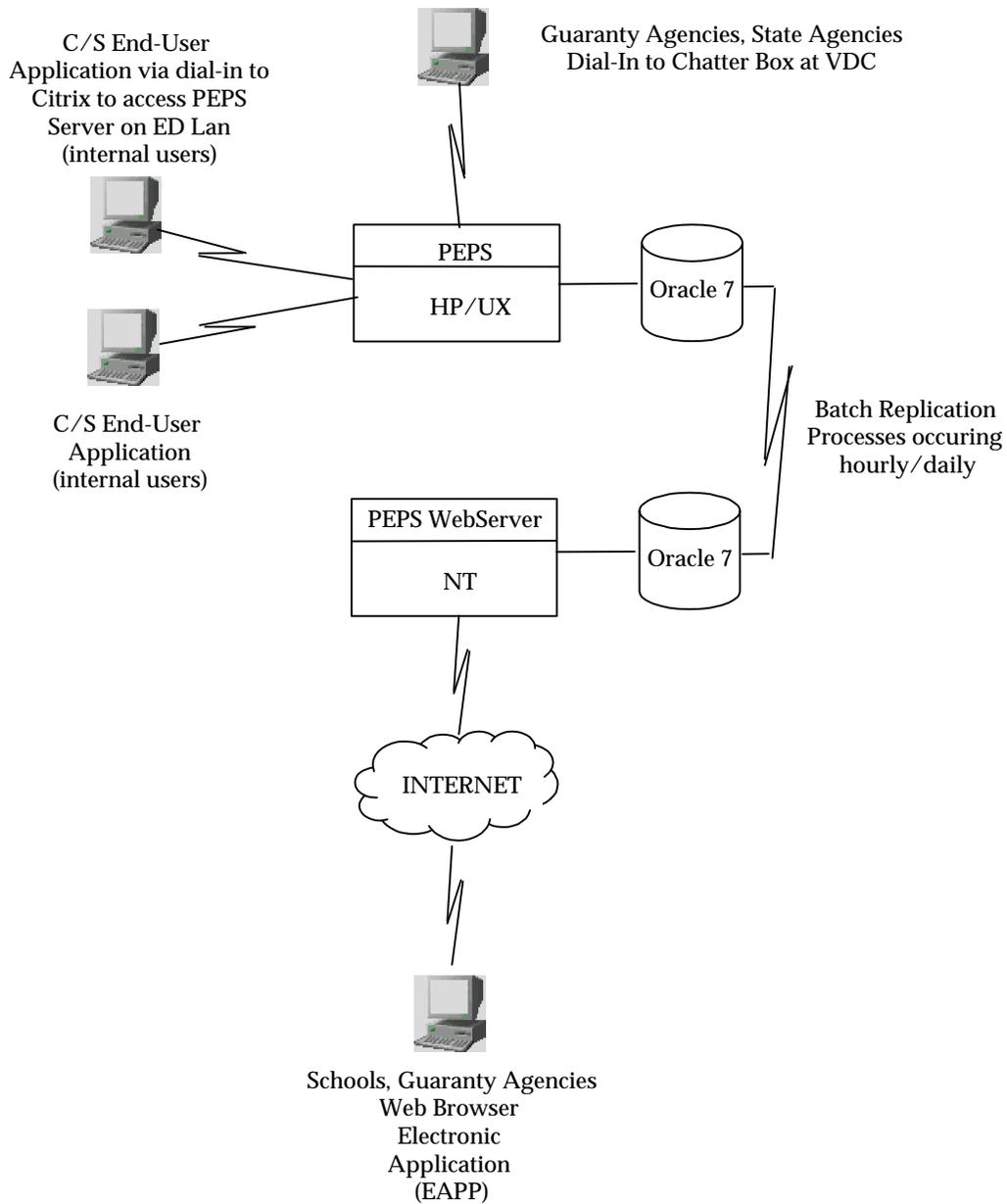
3.6.1.5 Contacts

Title/Role	Name	Contact Number	E-mail
SFA System Owner	Rana O'Brien	202-708-6266	Rane_O'Brien@ed.gov
System Security Officer	Nita Washington (Security Officer)	202-708-6566	Nita_Washington@ed.gov
Systems Administrator	Tim Lin (NT Server)	202-205-9768	Tim_Lin@ed.gov
	Jay Sriram (HP Server)	202-260-4801	Jay_Sriram@ed.gov
EAI Team Liaison			
Technical SME			
Functional SME (developer)			
Contact for Development Access	Laurie Miesen (CBMI)	703-846-8233	Lmiesen@clarke.net
Contact for Production Access	Nita Washington (Security Officer)	202-708-6566	Nita_Washington@ed.gov



3.6.1.6 System Context Diagram

Provide a high-level context diagram showing this system with all the major interfaces. The diagram should also depict the system's inputs and outputs.





3.6.1.7 External Interfaces

List all of the system's interfaces to external systems.

- Schools
- FFEL Guaranty Agencies Via the Web (EAPP)
- FFEL Guaranty Agencies Via a Chatter box
- National Student Loan Database System (NSLDS)

3.6.1.8 Data Sources

Provide details on the type and structure of data stores (e.g., databases, flat-files, VSAM, etc.) used to support this system.

Data Store	Version	Platform	Description

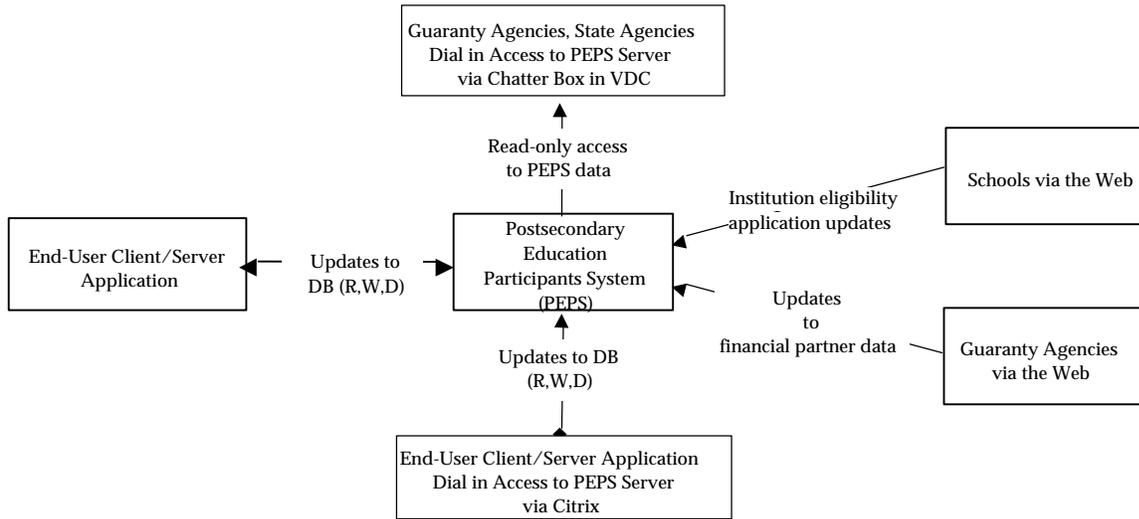
3.6.2 Interface Overview for PEPS

Information regarding external system interfaces is particularly important in determining the scope of requirements for integration between the EAI infrastructure and the application. External interfaces are defined as systems/applications outside the immediate domain of the subject system. Generally, external interfaces support connectivity to other systems. Respondents are encouraged to provide as much detail and supporting documentation as possible. Graphical representation of interfaces is of particular value in defining these specifics.

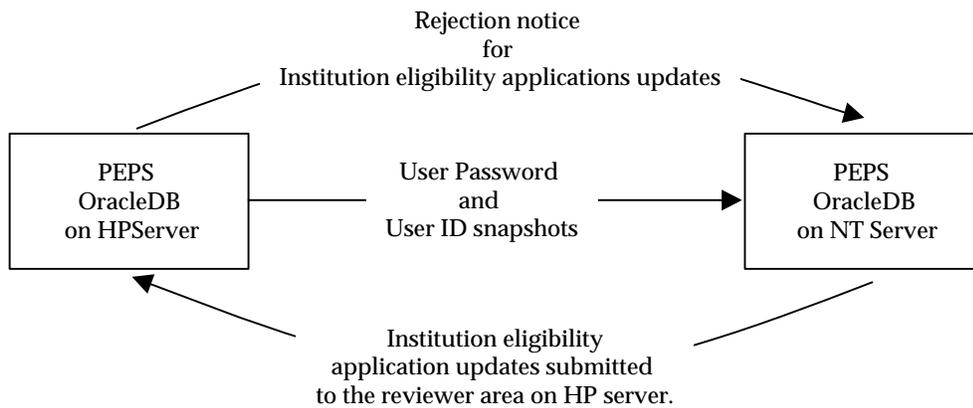
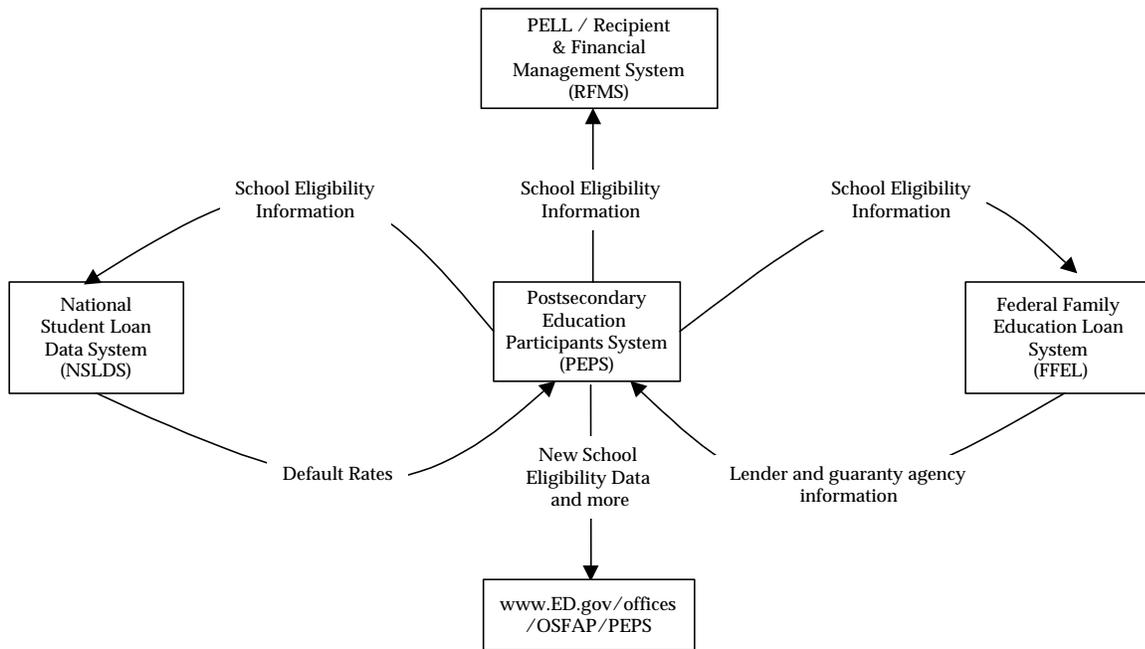
- The following interface overview information was completed using information provided in *Legacy System Inventory Report (Deliverable 16.1.1)*.



3.6.2.1 PEPS Global On-Line Interfaces



3.6.2.2 PEPS Global Batch Interfaces



3.6.2.3 Incoming Interfaces

Provide detail on the structure and format of all input files into this system.



3.6.2.3.1 On-Line Interfaces:

System	Action	Object	System	Frequency	Communications (Asynchronous/Synchronous)	Volume of Data Processed
PEPS	Receives	Institution eligibility application updates	Schools via the web (EAPP)	Daily (on demand)	Asynchronous	20MB
	Receives	Updates to financial partner data	Guaranty Agencies via the web (EAPP)	Daily (on demand)	Asynchronous	Varies
	Receives	Institution Eligibility /GA program certification data	End-user Client/Server Application	Daily (on demand)	Asynchronous	Varies
	Receives	Institution Eligibility /GA program certification data	End-user Client/Server Application Dial-in Access to PEPs Server via Citrix	Daily (on demand)	Asynchronous	Varies

3.6.2.3.2 Batch Interfaces:

System	Action	Object	System	Frequency	Volume of Data Processed
	Receives	Default rates	NSLDS	6 times a year	10MB



System	Action	Object	System	Frequency	Volume of Data Processed
	Receives	Lender and guaranty agency info (File placed on Network drive and manually retrieved by users)	FFEL	Quarterly	20 MB
PEPS (Oracle on HP)	Receives	Institution eligibility application updates submitted to the reviewer area on HP server.	PEPS (Oracle on NT)	On demand (every 10 min, hourly, daily)	20 MB
PEPS (Oracle on NT)	Receives	User Password and User ID snapshots	PEPS (Oracle on HP)	On demand	Varies

3.6.2.4 Outgoing Interfaces

Provide detail on the structure and format of output files from this system.

3.6.2.4.1 On-Line Interfaces:



System	Action	Object	System	Frequency	Communications (Asynchronous/Synchronous)	Volume of Data Processed
	Sends	Data from Oracle DB	End-user Client/Server Application	Daily (on demand)	Asynchronous	Varies
	Sends	Data from Oracle DB	End-user Client/Server Application Dial-in Access to PEPs Server via Citrix	Daily (on demand)	Asynchronous	Varies
	Sends	Read-only data from PEPS Oracle DB	State and Guaranty Agencies via Chatter box in VDC	Daily (on demand)	Asynchronous	Varies

3.6.2.4.2 Batch Interfaces:

System	Action	Object	System	Frequency	Volume of Data Processed
PEPS	Sends	School eligibility info	FFEL	Weekly, Thurs	500KB-50MB
	Sends	School eligibility info	NSLDS	Weekly, Thurs	500KB-50MB
	Sends	School eligibility info	PELL	Weekly, Thurs	500KB-50MB



System	Action	Object	System	Frequency	Volume of Data Processed
PEPS (Oracle on HP)	Sends	Rejection notice for Institution eligibility applications updates	PEPS (Oracle on NT)	On Demand	Varies
PEPS	Sends	New School Eligibility Data and more	www.ED.gov/offices/OSFAP/PEPS	Once a week	70MB

3.7 Completed Questionnaire for Promissory Note Imaging System (P-Note Imaging)

3.7.1 General System Information for P-Note Imaging

This section outlines application platform information, physical locations of environments, key system contacts, external interfaces to the system, and data store information.

3.7.1.1 Application Identification

Application name	Accent Capture
Application acronym	
Provide a detailed explanation of the application's business usage	Image and capture meta-data from documents received from borrowers and schools sent to the Loan Origination System.
Date Questionnaire Completed/Revised	June 13, 2001
Source of data	Completed by P-Note Imaging technical contact.
Data Collector	



3.7.1.2 Application Platform Information

Complete a separate platform section for each platform used by the application.

Platform 1	
Logical Platform Name OR Description	
Hardware Platform	Intel Server
Operating System	Windows NT
OS Version	4.0
OS Patches	6.0a
DBMS	
Transmission Protocol	
IP Address	207.37.15.4
Node Name	
MQSeries Intercommunication Port	<i>MQSeries uses IP Port 1414 as a default for intercommunication. Is this port available? If not, please specify an available port number for MQSeries intercommunication.</i>
System Access	<i>Does the EAI Core development team have connectivity to the system from their location? Is this system only accessible through the EDNet network?</i>
List all programming languages used	Visual Basic 6.0
Compiler tool(s) and version(s)	Microsoft Visual Basic 6.0



3.7.1.3 Source System Additional Information

Security Access Requirements	
Contracting Organization	
Developer Location	

3.7.1.4 Environments

List all of the application’s environments and physical locations.

Environment	Location
Development	Ballston, VA and Montgomery, AL
Test	Montgomery, AL
Production	Montgomery, AL
Other	

3.7.1.5 Contacts

Title/Role	Name	Contact Number	E-mail
SFA System Owner			
System Security Officer			
Systems Administrator			
EAI Team Liaison			
Technical SME	Jack Kirkman	(334) 206-7744	Jack.kirkman@eds.com
Functional SME (developer)	Greg Atkinson	(334) 206-6852	Greg.atkinson@eds.com
Contact for Development Access			



Title/Role	Name	Contact Number	E-mail
Contact for Production Access			

3.7.1.6 System Context Diagram

Provide a high-level context diagram showing this system with all the major interfaces. The diagram should also depict the system's inputs and outputs.

[Insert diagram]

3.7.1.7 External Interfaces

List all of the system's interfaces to external systems.

- RetrievalWare
- Loan Origination SubSystem

3.7.1.8 Data Sources

Provide details on the type and structure of data stores (e.g., databases, flat-files, VSAM, etc.) used to support this system.

Data Store	Version	Platform	Description
Informix		HP-UX	



4 Appendix

Current completed questionnaires do not require use of this section.