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LaRS & Phase IV FMS AR/AR
Design Review

May 21, 2002



Meeting Purpose

- Review the current designs for LaRS, as well as, Phase IV FMS AR and AP including:
 - Interfaces
 - Conversions
 - Extensions
 - Reports

- Discuss current open issues

- Agree upon the design

- Identify questions and issues

Documentation & Timeline

Key Deliverables & Location

- FMS Phase IV
 - Functional Designs: F:\Phase IV\5 Design\Functional\FMS AR_AP
 - Technical Designs: F:\Phase IV\5 Design\Technical\FMS AR_AP

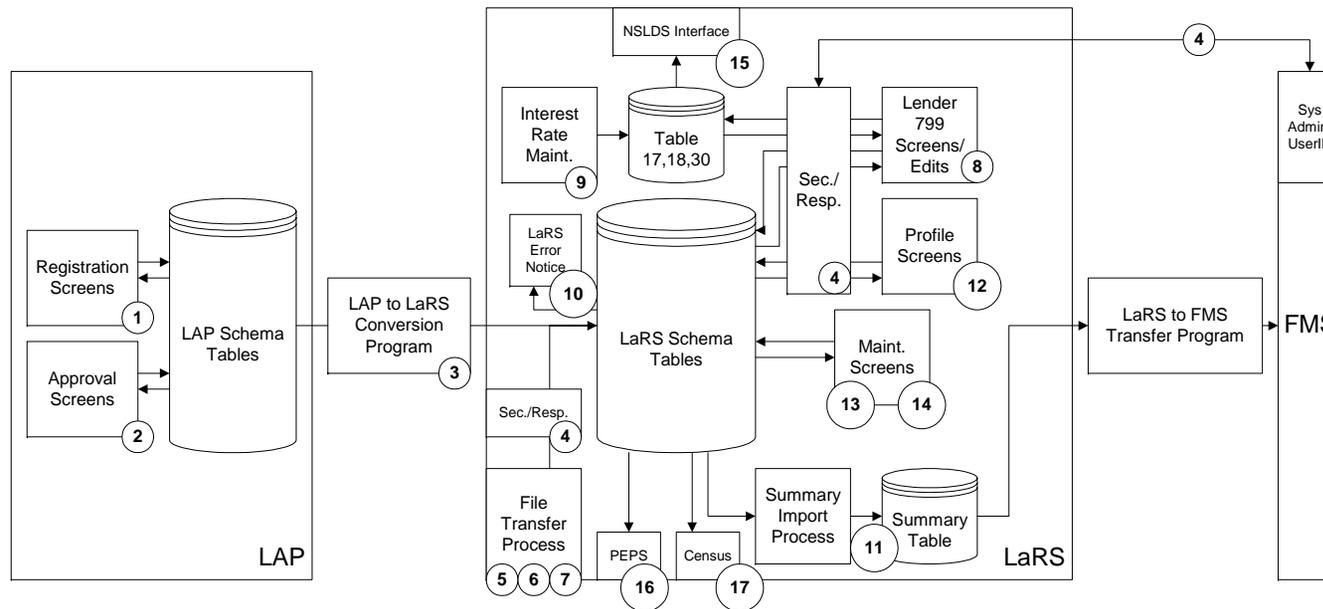
- LaRS
 - Technical Designs: F:\LARS\Design Documents\Tech Designs\Reviewed

Timeline

- System Test: 6/3 – 7/26
- Integration Test: 7/15 – 8/9
- Performance Test: 7/29 – 8/22
- UAT: 8/12 – 8/23
- PRR (Tentative Date): 8/28
- Production Migration: 9/9



LAP/LaRS Component Schematic



LEGEND

- | | |
|---|--|
| 1. LAP Registration Screens | 8. LaRS Report, Invoice Screens/Edits |
| 2. LAP Approval Screens | 9. Interest Rate Maintenance Screens |
| 3. LAP/LaRS Conversion Program | 10. LaRS Error Notice |
| 4. Security/Responsibility Form and Procedure | 11. Summary Table Import Process |
| 5. File Transfer Process - UNIX Script | 12. Profile Screens |
| 6. File Transfer Process - Level 1 Validation | 13. Maintenance - Supplier LOV's |
| 7. File Transfer Process - Level 2 Validation | 14. Maintenance - Supplier Hold/Deactivation |
| | 15. Interface - NSLDS |
| | 16. Interface - PEPS |
| | 17. Interface - Bureau of Census |



LAP Approval Screens – Create Lender ID Form

Component Description & Purpose

- The purpose of this form is for the FSA Staff to create a Lender or Servicer ID. This Lender ID (LID) will allow the LST to log onto the system to register (in the LARS_LAP form) their information.
- The Create Lender ID form is used for institutions who are not already in the system and wish to be so.
- Once the LST(Lender, Servicer, Trustee) enters their information, they submit their application for approval. The FSA user at this point can approve or reject the application based on their information.
- The form creates a certain ID depending on whether they are a lender or a servicer.
- An Oracle alert is sent out to them letting know what their new ID is and where they can register for the Lender Approval Process.

LAP Approval Screens - Create Lender ID Form



Developer/2000 Forms Runtime for Windows 95 / NT

CREATE NEW LENDER, SERVICER OR TRUSTEE ID

Institution	Lender ▼
LID	804546
Name	Student Loans Association of Des Moines
Federal Tax ID	01-7899464

Cancel **Create ID**



LAP Approval Screens – Create Lender ID Form

Key Open Issues

- Lenders will only receive the automatic alert if a valid email account entered into the registration form.

Key Assumptions

- The ID is created in the LARS_LAPS table and an Oracle alert is sent out letting the institution know what their new ID is and where they can register their information in order to be processed for approval.
- The LST (Lender, Servicer, Trustee) is not in the current system
- The Lender ID assigned will be determined by an assigned sequence. Lenders will be assigned the next available ID beginning with the number 8, while servicers will be assigned the next available ID beginning with the number 7.
- The FSA user is required to enter the Institution's email address. This field will be required in order for the LST to get their new ID, through an oracle alert.

LAP Approval Screens - Approve / Reject Lender Form



Component Description & Purpose:

- The purpose of this screen is for the FSA user to approve or reject the LST (Lender, Servicer, and Trustee). Once the LST has submitted their information through the registration form, the FSA user will have an opportunity to review and make a judgment based on the information previously submitted.
- The form picks up all LST's that have a submitted status.
- The form will pick up applications that are in the 'Approved', and 'Rejected' status if the FSA user decides to save their information without converting the data.
- Allows the user to view the LST's information in a read only and non-updateable format.
- The Approve / Reject Lender Form will not allow FSA users to approve Lenders who work with Servicers who have not been approved and vice versa.
- Oracle alerts will also be sent out letting the institution know if their application as been rejected or approved and why.

LAP Approval Screens - Approve / Reject Lender Form



LARS LAP ED Acceptance Screen

Action Edit Query Go Folder Special Help

Lender/Service/Trustee Approval

ID	Name	Institution Type	LAP Status	Comments	OPA Receipt	Approve	Reject
000000	BASIC BANK	LARS Lender	Submitted		<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>
					<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
					<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
					<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
					<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
					<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
					<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
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					<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
					<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
					<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
					<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
					<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
					<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>

Record: 1/1

LAP Approval Screens - Approve / Reject Lender Form



Key Open Issues

- Not allowing servicers to be approved without additional LID(s) being approved could present problems. Will all the lenders & servicers that are currently in the system be approved before go-live?

Key Assumptions

- The Approval Form will not allow FSA users to approve Lenders who work with Servicers who have not been approved.
- The Approval Form doesn't allow FSA users to approve Lenders who have additional LID(s) that have not been approved.
- When the FSA user clicks the convert button, the form takes all the approved applications and moves them to LaRS. The status of rejected applications is set back to 'In Process' so that the institution can go back into the registration form and re submit their application.
- When the form is queried, the form will only display records that have a status of 'Submitted', 'Approved' or 'Rejected' status depending on whether the FSA user of saved their past updates and did not "convert".

LAP to LaRS Conversion Program



Component Description & Purpose:

- This program converts approved Lender/Service application data from the LAP system to LaRS.
- After an application is approved, the user will click on the 'Convert' button. This will execute the conversion program.



LAP to LaRS Conversion Program

Key Open Issues

- None

Key Assumptions

- The number of approved applications processed per year should be low enough that there are no performance concerns.
- All Servicers/Lenders added as additional LIDs must be approved first themselves.

Interest Rate Maintenance



Component Description & Purpose:

- This form has three major functions:
 - Creates & maintains yearly & quarterly interest rates on tables 17 & 18
 - Calculates the special allowance factor and populates table 30 with this information. (This occurs whenever a new record is added to table 18.)
 - Displays special allowance factors stored on table 30 (view-only)
- This form is only accessible to approved FSA personnel. All approved users have the same rights to add, modify or delete records.

Interest Rate Maintenance



Table 17

Interest Rate Maintenance Screen

Action Edit Query Go Folder Special Help

Category: XE Status: Approved

Interest Rate: EVAR2 Minimum Rate: 0

Year: 1996 Cap Rate: 11000

Add-on Factor: 350 Prelim Rate: 8980

Flags

Rounding Tax Exempt Special Allowance Pay

Effective Dates

From: 01-JUL-1995 To: 30-JUN-1996

Approve

Table 18

Interest Rate Maintenance Screen

Action Edit Query Go Folder Special Help

Quarterly Rates

Status: Approved

Billing Period

Quarter: 1 Year: 1985

Average Bond Equivalency Rate: 846

Commercial Paper Rate: 0

Approve

Table 30

Interest Maintenance Screen

Special Allowance Factor

Rate Information

Quarter: 3 Year: 2001

Special Allowance Category: XE

Special Allowance Category	Interest Rate	Daily Rate
XE	23000	0
XE	24000	0
XE	25000	0
XE	EVAR	677500
XE	EVAR1	0
XE	EVAR2	0
XE	FVAR0	677500
XE	FVAR7	677500

Interest Rate Maintenance

Key Open Issues

- Since updating/deleting approve records is allowed, there is a possibility that data on Table 30 might be altered after 799 forms have been submitted for the quarter or after rates have been sent to NSLDS for a given quarter.

Key Assumptions

- Table 30 should be updated when:
 1. A new record is *added* to Table 18
 2. An existing rate is *updated* on Tables 17 or 18
 3. An existing rate is *deleted* from Table 17
- A rate is automatically Approved once entered & saved to Table 17 or 18.
- Regarding the Special Allowance Factor:
 1. Negative rates should be “rounded up” to zero.
 2. All Fixed Interest Rates use the t-bill rate (rather than the Commercial Paper Rate) to calculate Special Allowance.
 3. All loans made prior to 10/1/1981 had fixed Interest Rates.

LaRS Profile Form



Component Description & Purpose

- The Profile form will allow users of the LaRS system to view and update information stored on an organization. Each user's access will be determined by their security setup.
- The form will contain Contact, Payment, Servicer/Lender, Guaranty Agency and Additional LID information.
- Users will select a LID from a list of LID's they have been granted access to.
- This form will also be accessible from the FSA LaRS Manager responsibility.

LaRS Profile Form



Contact

Lender's Interest and Special Allowance Request and Report (LaRS)

Lender/Service/Trustee Name: Federal Tax ID:

Lender/Service/Trustee ID: Is an OPA on file?

Institution Type: Interest Calculation:

Contact Information

Address

Address Line 1: Address Line 2: Address Line 3:

Contact

First Name	MN	Last Name	Email Address

Payment

Lender's Interest and Special Allowance Request and Report (LaRS)

Lender/Service/Trustee Name: Federal Tax ID:

Lender/Service/Trustee ID: Is an OPA on file?

Institution Type: Interest Calculation:

Payment Information

Bank Name: City:

Address: State:

Zip:

Bank Number/ABA Number: Bank Account Number:

Guaranty Agency

Lender's Interest and Special Allowance Request and Report (LaRS)

Lender/Service/Trustee Name: Federal Tax ID:

Lender/Service/Trustee ID: Is an OPA on file?

Institution Type: Interest Calculation:

Guaranty Agency

Guaranty Agency Information - Profile Change

Update Guaranty Agencies associated with your institution.

GA Code	Name	Start Date	End Date

Servicer/Lender

Lender's Interest and Special Allowance Request and Report (LaRS)

Lender/Service/Trustee Name: Federal Tax ID:

Lender/Service/Trustee ID: Is an OPA on file?

Institution Type: Interest Calculation:

Servicer Information

Update Servicer(s) your institution works with.

Servicer Name	Servicer Id	Function (Submit/View or Maintain)	Start Date	End Date

Additional LID

Lender's Interest and Special Allowance Request and Report (LaRS)

Lender/Service/Trustee Name: Federal Tax ID:

Lender/Service/Trustee ID: Is an OPA on file?

Institution Type: Interest Calculation:

Additional LID(s) Information

Do you participate in the FFEL program under a different LID(s)? If so, please enter the additional LID(s).

LID Number	Vendor Name	Start Date	End Date
800003	SUNTRUST BANK ALABAMA N A	22-APR-2002	22-APR-2002
800003	SUNTRUST BANK ALABAMA N A	22-APR-2002	15-APR-2002

LaRS Profile Form



Key Open Issues

- None at this time

Key Assumptions

- The user's login will determine the access levels granted.
- Users can update information in the Profile form, but may not insert new records.
- FSA Financial Partners will be able to query and view all data.
- One LID is allowed only two contacts.
- There is a one to many Lender to LID relationship.
- There is a one to many Servicer to Lender LID relationship.
- Servicers only have access to the Contact and Lender Information screens.
- The Bank Routing number and Account Number will be maintained in FMS after the initial conversion.
- The Bank Routing number and Account Number will be displayed in the profile screens (LaRS) but derived from FMS. Users will not be able to update these fields in the Profile form.
- User security will be setup.

Component Description & Purpose

- LaRS Form (Formerly called Form 799) is used for the Lenders/Service providers to fill out a quarterly LaRS report and submit if necessary. The data entered into this form will be eventually loaded into AP/AR via LaRS AP/AR Interfaces.
- The Loan Origination alternate region allows a user to enter loan principal amounts and interest rate information.
- The Interest Benefits alternate region allows a user to enter interest information for the loan types accruing interest and calculates interest amount for billing codes of the current quarter.
- The Special Allowance alternate region calculates special allowance for a specific lender for a given quarter, category, interest rate, and pending balance.
- The Loan Activity alternate region displays the pending principal amounts for different loan types for a given lender/service provider for a quarter.
- The Loan Portfolio Status displays the outstanding balances for the five different loan types. The entity may submit has if the given user has been given 'submit' access.
- The Disclaimer alternate region displays when invoice has been submitted allowing for final approval.

LaRS Form



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Loan Origination

Loan Type (A)	Fee Code (B)	Fee Percent (C)	Loan Interest Rate (D)	Principal Amount of Loans (E)	Fee Due (F)
PL	FB	0.03	FVAR7	777	23
SF	FN	0.03	FVAR10	200	6
SF	LN	0.005	FVAR10	200	1
SF	FB	0.05	FVAR10	123	1
SF	LS	0.005	FVAR7	400	22
SL	FI	0.05	FVAR7	23	0
SL	FS	0.055	FVAR7	200	11
SU	FS	0.03	FVAR7	200	6

Special Allowance

Billing Code (A)	Calendar Year (B)	Quarter Code (C)	Loan Type (D)	Special Allowance Category (E)	Interest Rate (%) (F)	Ending Principal Balance (G)	Average Daily Principal Balance (H)	Adjustments for Difference in Average Daily Principal Balance (I)
BC	1997	1	CL	SD	FVAR2	12	11	
BD	1997	1	CL	SD	FVAR2	11	12	1
BC	1998	2	PL	SE	FVAR8	1,222	222	

Loan Activity

	Stafford & FISL (Except Unsubsidized) (A)	Federal Plus (B)	Federal SLS (C)	Federal Consolidation (D)	Unsubsidized Stafford (E)
Beginning Principal Balance	0	0	0	0	0
Loan Principal Disbursed	0	0	0	0	0
Interest Capitalized or Other Principal Increase	0	0	0	0	0
Principal of Loans Purchased	123	777	0	0	0
Principal of Loans Cured	0	0	0	0	0
Principal of Loans Sold	0	0	200	0	200
Principal Paid by Insurance Claims	0	0	0	0	0
Principals of Loans on Which the Guarantee Was Voided	0	0	0	0	0
Principal Paid by Borrowers and Other Principal Reductions	0	0	0	0	0

LaRS Form

Lender ID: 800002 Status: Submitted
 Lender Name: LARS Test Supplier Two
 Year: 1997 Quarter: March 31
 Servicer ID: 700001
 Servicer Name: LARS Test Supplier Four

Activities:
 Do you have activity to report this Quarter? Yes No
 Do you have origination activity/lender fees or adjustments to report? Yes No
 Do you have interest activity or adjustments? Yes No
 Do you have special allowance or adjustments? Yes No

Cancel Continue

Disclaimer

LID: 800002 Year: 1997 Quarter: 1st Qtr JAN - MAR Status: Submitted

Disclaimer

I certify that the information included in this report is correct to the best of my knowledge and belief and that it conforms to applicable laws, regulations, and policies relating to the Federal Family Education Loan Program. I acknowledge that all documents, files, and accounts relating to loans made under this program shall be subject to review and audit by the Department of Education or its agents, other agencies of the Federal Government, and by any guaranty agency in accordance with the Department's regulations and requirements.

Cancel Accept

Interest Benefits

Loan Type (A)	Interest Rate (%) (B)	Billing Code (C)	Ending Principal Balance (D)	Average Daily Principal Balance (E)	Interest Amount (F)
CL	0.1	BC	34	33	.80
SF	0.1	BD	123	70	77.00

Loan Portfolio Status

	Stafford & FISL (Except Unsubsidized) (A)	Federal Plus (B)	Federal SLS (C)	Federal Consolidation (D)	Unsubsidized Stafford (E)
1. Loans in School and in Grace	12				0
2. Loans in Authorized Deferment	6	66	66	66	56
3. Loans in Repayment or Forbearance:					
a. current or less than 31 days past due	56	5	5	123	5
b. 31 - 60 days past due	9	5,550	546	65,444	13
c. 61 - 90 days past due	444	444	444	44	44
d. 90 - 120 days past due	266	666	66	66	6
e. 121 - 180 days past due	6	6	111	45	66
f. 181 - 270 days past due	666	0	0	0	0
g. 271 days or more past due	0	0	0	0	0
h. claims filed, but not yet paid, and not listed above	0	0	0	0	0
4. Ending Principal Balance	1,455	6,742	1,238	65,788	190

Submit

Key Open Issues

Need final confirmation that there will be only 3 types of ED users

- 'FSALARS ED Inquiry' (view-only rights)
- 'FSALARS ED User' (maintain rights)
- 'FSALARS ED Manager' (submit rights)

Key Assumptions

- For a given user Id LARS_USER_ACCESS table has either a lender or a Servicer but not both.
- Lender/Servicer demographic information is stored in FMS.
- Lender/Servicer relationship is maintained in LaRS.
- The interest calculation method and the special allowance rate exist in LaRS.

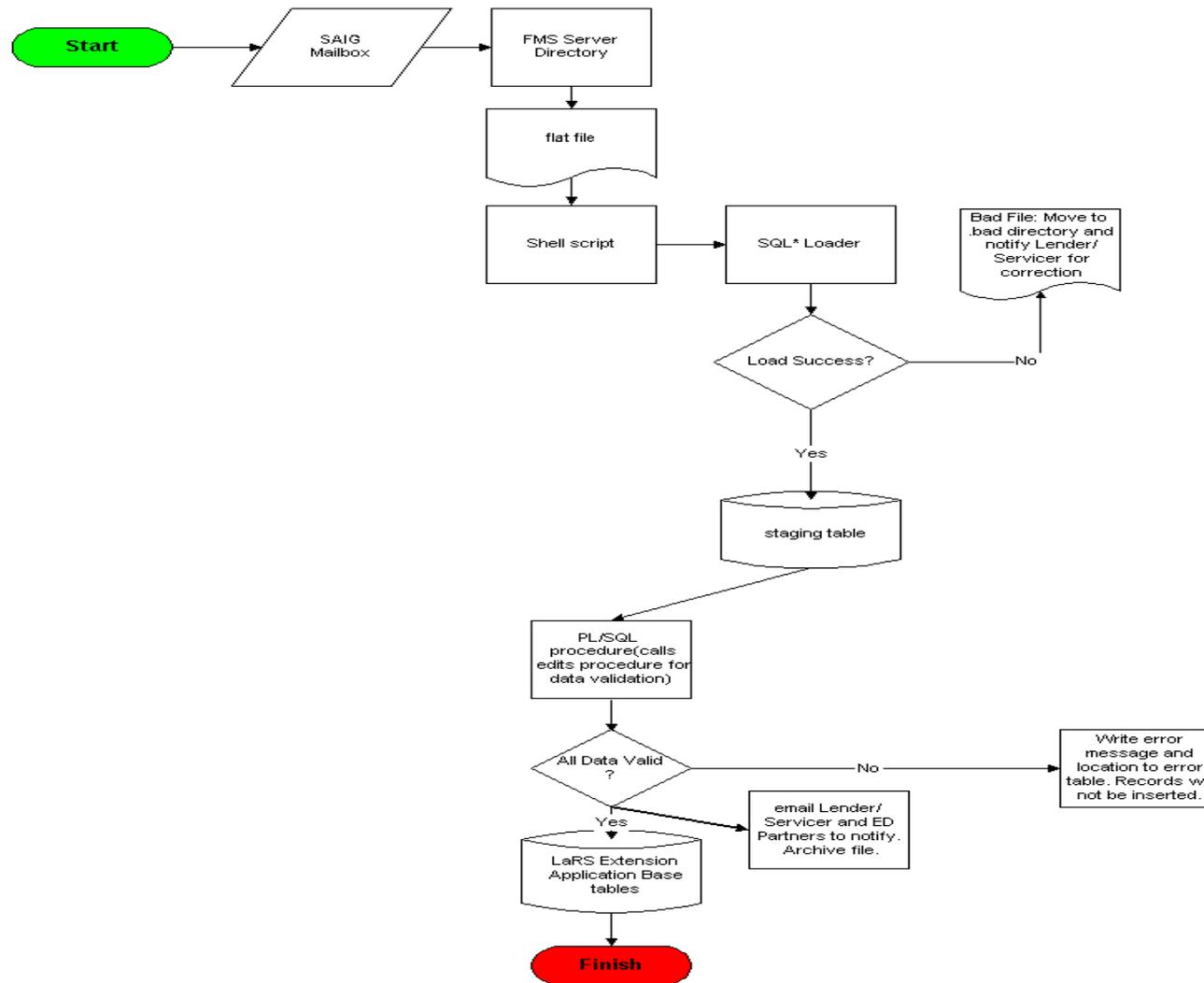
File Transfer Process

Component Description & Purpose

- This interface is responsible for interfacing the SAIG invoice flat file to the LaRS extension base tables.
- Lenders/Servicers can use this flat file import approach as an alternative method to the online LaRS screens to provide financial report information.
- When the File Transfer option is selected, the file will be transferred from their local system to a specified UNIX directory. It is at this point that the LaRS_FSA_INVOICE_IMPORT will be kicked off from the Oracle Concurrent Manager.
- The order of the program units is as follows:
 - LARS_FSA_INVOICE_IMPORT_SH - takes file from unix directory does initial checks, then passes it to the loader file.
 - LARS_FSA_INVOICE_IMPORT - loader file, responsible for loading invoice data from flat file into temp tables.
 - LARS_FSA_INVOICE_IMPORT_PKG -program responsible for validating all data, then transferring it to base tables.
- In order for the program to complete successfully, the data must pass all edit checks, and then be inserted into the base tables without error. The end result of this interface will allow the Lender/Servicer to view the information via the online LaRS screens.



File Transfer Process



File Transfer Process

Key Assumptions

- Flat file received from SAIG application is valid
- File Header/Trailer information is correct and consistent
- File is not corrupted
- File has not already been processed
- Lender/ Servicer only submits one invoice per quarter

Summary Table Import Process

Component Description & Purpose

The purpose of this interface is to map financial and vendor data stored in the LaRS invoice tables to the custom Summary table - **LARS_SUMMARY_INV.tab**.

The header information that is being mapped to the summary table is obtained from the base LaRS table:

LARS_FORM_799:

- Lender ID - ID number of a valid lender
- Vendor_site_id - Unique sequence number assigned to each Vendor ID
- Quarter - Fiscal quarter
- Year - Fiscal year
- Form ID - Unique identification. Also know as Invoice ID.
- Creation_date - Date entered in base table
- Servicer_id - Servicer ID number

Summary Table Import Process

The **LARS_SUMMARY_INV**.tab is also going to contain summary information pertaining to 4 individual fund types. All calculations for these fund types will be based on either **fee code** or **billing code**. The line information being mapped to the summary table is obtained from the base LaRS table: **LARS_FORM_LINES**:

4 Fund Types & Grand Total

- a. Fund #1 - **LOAN ORIGINATION** = SUM (FEE_DUE)
WHERE FEE_CODE IN (FN, FI, FB, FD, FS)
- b. Fund #2 - **LENDER FEE** = SUM (FEE_DUE)
WHERE FEE_CODE IN (LN, LI, LB, LD, LS)
- c. Fund #3 - **INTEREST BENEFIT** = SUM (INTEREST_AMOUNT)
WHERE BILLING_CODE_P2 IN (BC, BI, BD)
- d. Fund #4 - **SPECIAL ALLOWANCE** = SUM(SPECIAL_ALLOWANCE_AMOUNT)
WHERE BILLING_CODE_P2 IN (BC, BI, BD)
- e. **GRAND TOTAL** = (INTEREST BENEFIT + SPECIAL ALLOWANCE) -
(LOAN ORIGINATION + LENDER FEE)

Summary Table Import Process

Key Open Issues

- None

Key Assumptions

- Form 799 does not allow NULL values when a fee code or billing code is entered.
- Program will be run as a batch program nightly after Invoice data is loaded into the LaRS Invoice Table via the Web and File Transfer.
- Program will be run before the FMS AP/AR Extract runs, which extracts data loaded into the LaRS Invoice Summary Table
- Each fund type can return a value that is +/-/0/NULL. The Grand Total should only return a +/- /0 value.
- Data does not need to be retained in the summary table once it has been processed in Oracle AR or AP.
- Only invoices that have been 'Approved' will be interfaced to the Summary Table.

Maintenance - Supplier Hold/Deactivation

Component Description & Purpose

This form has three alternative regions:

- "Lenders on Hold" queries up Lenders currently on Hold. Lenders on Hold can process payments to FMS but cannot submit a new LARS invoice.
- "Deactivated Lenders" queries up Lenders who are merged or deactivated.
- "Deactivation Candidates" queries up Lenders who are candidates for deactivation; these Lenders have not filled out a LaRS form in the last 180+ days.



Maintenance - Supplier Hold/Deactivation

Lenders on Hold

SFA LARS Lender on Hold and Deactivate Screen

Menu: Action Edit Query Go Folder Special Help

Dropdown: Lenders on Hold

LID	Action Date	Comments	On Hold
	14-MAY-2002		<input checked="" type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

Deactivation Candidates

SFA LARS Lender on Hold and Deactivate Screen

Menu: Action Edit Query Go Folder Special Help

Dropdown: Deactivation Candidates

Lender ID	De-activated	Action Date	Comments
800061	<input checked="" type="checkbox"/>	14-MAY-2002	Last LaRS Submitted 12/25/2001
	<input type="checkbox"/>		

Deactivated Lenders

SFA LARS Lender on Hold and Deactivate Screen

Menu: Action Edit Query Go Folder Special Help

Dropdown: Deactivated Lenders

Lender ID	De-activated	Action Date	Comments	Merge	Lender ID
800001	<input checked="" type="checkbox"/>	14-MAY-2002	Deactivated on May 14, 2002 13:24 by the Lender Deacti	<input type="checkbox"/>	
800004	<input checked="" type="checkbox"/>	14-MAY-2002	May 14, 2002 13:24 by the Lender Deactivation process	<input type="checkbox"/>	
	<input type="checkbox"/>			<input type="checkbox"/>	
	<input type="checkbox"/>			<input type="checkbox"/>	
	<input type="checkbox"/>			<input type="checkbox"/>	
	<input type="checkbox"/>			<input type="checkbox"/>	
	<input type="checkbox"/>			<input type="checkbox"/>	
	<input type="checkbox"/>			<input type="checkbox"/>	
	<input type="checkbox"/>			<input type="checkbox"/>	
	<input type="checkbox"/>			<input type="checkbox"/>	

Maintenance - Supplier Hold/Deactivation

Key Open Issues

- In the Lender/Service Deactivation Candidate Notice the message states the lender has “30 days from the date of this letter” to comply; should we say 60?
- Is this true?: “If lender/service is deactivated, the corresponding service/lender should be deactivated”

Key Assumptions

- A lender can be deactivated even if the lender is on hold. If a lender on hold is deactivated, then the lender should be automatically removed from the on hold list.
- If the lender is on hold, it can be merged.
- If the lender is deactivated, it can be merged.
- If the lender is deactivated, it can be reactivated.
- If the lender is merged, the lender that was merged into an existing lender must be deactivated.
- If the lender is deactivated and merged, it can be unmerged.
- If the lender is deactivated and merged, it can be reactivated. If reactivated, should be automatically unmerged.
- If the lender is deactivated, it cannot be on hold.

Maintenance - Supplier List Of Values

Component Description & Purpose

- This form is used to maintain lookup types and lookup codes to be used for LaRS LOVs (Loan Type, Fee Code, etc) and Error messages.

LARS Maintenance Screen

Action Edit Query Go Folder Special Help

Lookup Type: User Maintainable Flag

Description:

Lookup Type Line

Lookup Code	Meaning	Enabled Flag	Start Date	Ending Date
BC	Interest due to you for the Current Quarter	<input checked="" type="checkbox"/>	21-AUG-2001	
BD	Adjustments, resulting in a net decrease in the Interest	<input checked="" type="checkbox"/>	21-AUG-2001	
BI	Adjustments, resulting in a net increase in the Interest	<input checked="" type="checkbox"/>	21-AUG-2001	
		<input type="checkbox"/>		



Maintenance - Supplier List Of Values

Key Open Issues

None

Key Assumptions

None

Interface - NSLDS Special Allowance & Interest Benefits



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Component Description & Purpose

- This LaRS interface will create & transmit two separate flat files to the National Student Loan Data System (NSLDS):
 - Special Allowance Rates, from Table 30
 - Interest Rates, from Table 17
- These files will be generated on the 15th day of the first month after the end of a quarter (i.e., quarter 1 information will be generated on April 15)
- The only parameters necessary for this interface to run will be year & quarter
- If an error occurs at any point in the interface, processing will stop and created files will be overwritten when program is re-run.



Interface - NSLDS Special Allowance & Interest Benefits

Key Open Issues

- Do not know where the generated files should be placed, whether they should be FTPed to NSLDS or put into a directory on a shared drive.
- Can interest rates be deleted in LaRS after this interface has been run?

Key Assumptions

- Interface will be run by a user as a Concurrent Program in Oracle Apps.
- Tax-exempt rates (whose Special Allowance Category start with 'X') should not be included in these files.
- All other combinations of Special Allowance Category/Interest Rate should be included in these files.
- Data on Tables 17 and 30 for the relevant quarter & year will not be altered after these files are created.

Interface - LaRS PEPS

Component Description & Purpose

- This LaRS interface will create & transmit two separate flat files to the PEPS system :
 - Lender_Basic_info.txt - Contains basic lender demographic information from the LaRS tables for each invoice.
 - Lender_Portfolio_Info.txt - Contains basic lender loan portfolio information from the LaRS tables for each invoice. There will be one line in this file for each of the different loan types a lender has in their portfolio.
- This interface will be run once per month and will only send lender invoice records which have an 'Approved' status and have not yet been sent to the PEPS system.
- If an error occurs at any point during processing, the errors can be addressed, and then the interface can be run again.



Interface - LaRS PEPS

Key Open Issues

- Do not know where the generated files should be placed, whether they should be FTPed to PEPS or put into a directory on a shared drive.

Key Assumptions

- Interface will be run by a user as a Concurrent Program in Oracle Apps.
- PEPS Interface and DATAMART Interface will be run at the same time.
- Batch program will accept multiple invoices for each lender LID.
- Lender portfolio data will be extracted when disbursed amount is ≥ 0 .
- Once an invoice has reached 'Approved' status it will not be modified.

Security/Responsibility Form and Procedure

Component Description & Purpose

- This is the form used by the System Administrator to assign and maintain Lender users specific rights to certain LIDs. The information entered in this form will be stored in the LARS_USER_ACCESS table.
- If the user is a Lender he/she will have (View, Maintain, or Submit) in the LARS_USER_ACCESS table for each LID the Lender decides the user will have access to.
- If the user is a Servicer he/she will not be maintained by the System Administrator, but he/she will have their (NAME, USER_ID, & Servicer LID) entered in the table with no privileges assigned. All privileges for a servicer user will be derived from the pre-defined relationship in the: LARS_LENDER_SERVICER_RELATIONS table.
- A callable stand-alone program will access the User ID and Lender/Servicer Relationship tables to determine current user's access rights.



Security/Responsibility Form and Procedure

User Name User ID

Vendor Name

Assign User Access Privileges

LID #	Assign Privilege	Start Date	End Date
<input type="text" value="LID"/>	<input type="text" value="FUNCTION_NAME"/>	<input type="text" value="START_DATE"/>	<input type="text" value="END_DATE"/>
<input type="text" value="LID"/>	<input type="text" value="FUNCTION_NAME"/>	<input type="text" value="START_DATE"/>	<input type="text" value="END_DATE"/>
<input type="text" value="LID"/>	<input type="text" value="FUNCTION_NAME"/>	<input type="text" value="START_DATE"/>	<input type="text" value="END_DATE"/>
<input type="text" value="LID"/>	<input type="text" value="FUNCTION_NAME"/>	<input type="text" value="START_DATE"/>	<input type="text" value="END_DATE"/>
<input type="text" value="LID"/>	<input type="text" value="FUNCTION_NAME"/>	<input type="text" value="START_DATE"/>	<input type="text" value="END_DATE"/>
<input type="text" value="LID"/>	<input type="text" value="FUNCTION_NAME"/>	<input type="text" value="START_DATE"/>	<input type="text" value="END_DATE"/>
<input type="text" value="LID"/>	<input type="text" value="FUNCTION_NAME"/>	<input type="text" value="START_DATE"/>	<input type="text" value="END_DATE"/>

Security/Responsibility Form and Procedure

Key Open Issues

- None

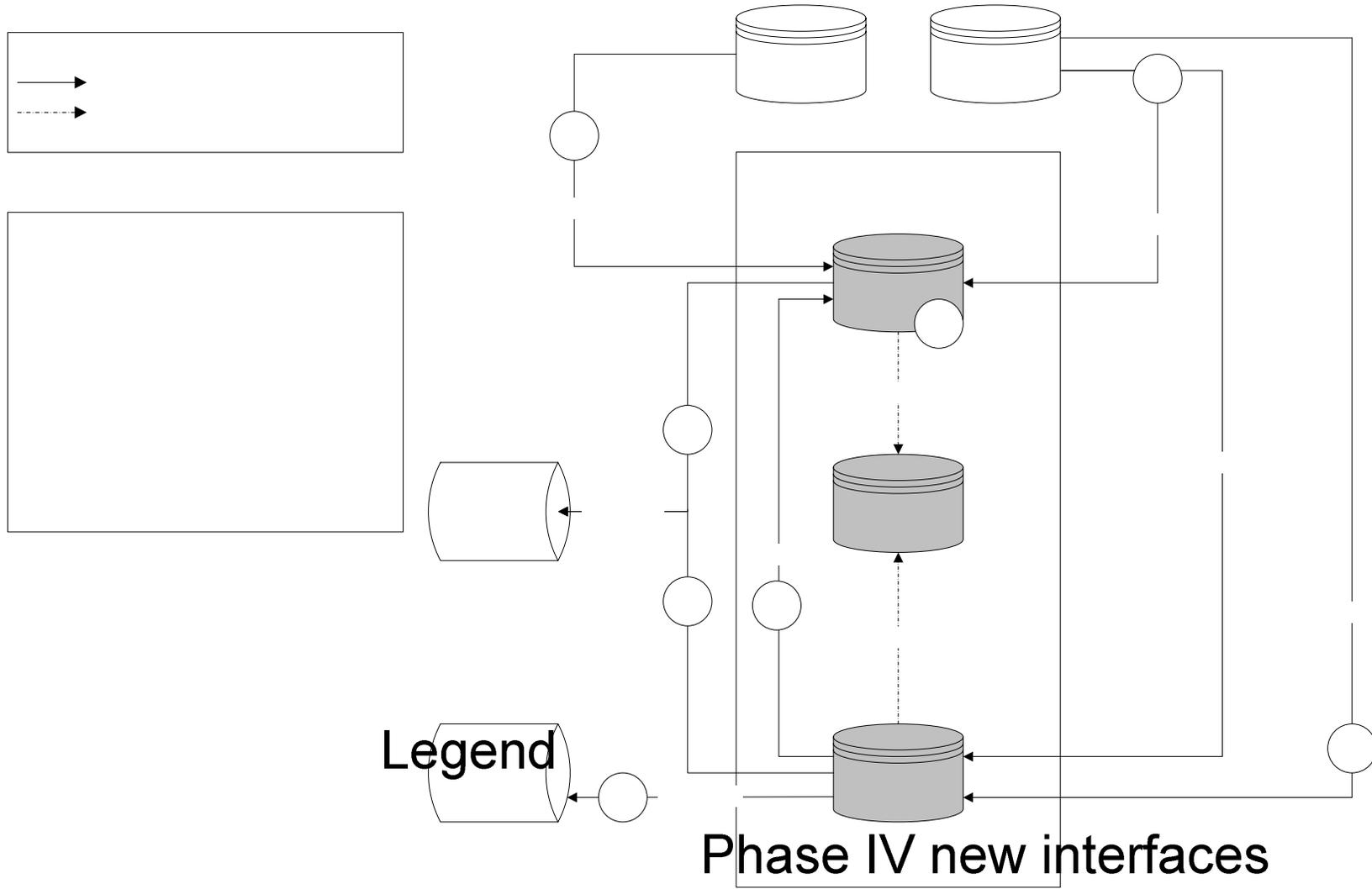
Key Assumptions

- A lender can have multiple LIDs
- A lender can have multiple users
- A user can have different access levels to different LIDs
- Users will logon as themselves
- Multiple users can be assigned to one LID
- A user that belongs to a Servicer will not have privileges added using this form. All processing will be done in the background using data from the LARS_LENDER_SERVICER_RELATIONS table.
- A Servicer will only have maintain and submit roles.

FMS Phase IV AR/AP Component Schematic



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Phase IV new interfaces

Oracle Standard Integration

LaRS Vendor/Customer Interface



Component Description & Purpose

- FMS AP vendors are required to create and process Payable transactions. FMS AR customers are required to create and process Receivable transactions. An FMS Vendor/customer cross reference is required to facilitate the FMS offsetting process.
- The LaRS Vendor/Customer interface program will pull new and updated records from the LaRS vendor tables to the FMS AP vendor tables nightly. Then, the program will load the FMS AR customer tables based on this new or updated vendor information. Once the AP vendor and AR customer records have been created, the standard Oracle vendor/customer cross reference table will be populated.
- Interface processing will be utilized for initial vendor/customer conversion.
- LaRS deactivation and hold information will impact FMS vendor records only.
- Once FMS processing is complete, a flag will be updated on the LaRS vendor table(s) to identify that record as processed.
- This component is currently Build/Test complete.

Key Open Issues

- Volumes for interface (after initial conversion) have not been identified.
- What offsetting process will be used?

LaRS Vendor/Customer Interface



Key Assumptions

- FMS will have read and write access to LaRS vendor tables.
- The LaRS unique record identifier will be shared across LaRS and FMS. FMS will utilize a flexfield to capture this information.
- The LaRS vendor tables will include a flag column, which will indicate the records that should be pulled by this program. The LaRS application is responsible for populating this flag.
- Bank account and routing information will be passed from LaRS to FMS only for the initial conversion. All updates to this data will be processed manually in FMS only. LaRS will read from the FMS tables for this information.

Key Risks

- The LaRS Vendor / Customer Load program needs to run prior to the LaRS Invoice Interface program.
- Manual adjustments in FMS will cause differences between the records in FMS tables and records in LaRS vendor tables. Business rules are in place to manage this process.
- The vendor and customer records will be created from lender supplied data.

LaRS Invoice Interface



Component Description & Purpose

- FMS will process lender interest, special allowance, origination fee and lender fee transactions (also known as 799 invoices). Lender 799 invoice data will be pulled from the LaRS Summary table to FMS.
- The Lender invoice data will be populated to the LaRS Summary table with a status of 'NEW'. These invoices will be picked up by the LaRS Interface program. Based on the calculated net amount, each invoice will be processed in FMS Oracle AR or FMS Oracle AP.
- Once FMS processing is complete, the LaRS summary table status will be updated. This status will indicate either 'successful processing' or 'error' (including an error message).
- This component is currently in Build/Test.

Key Open Issues

- Volumes for interface have not been identified.

LaRS Invoice Interface



Key Assumptions

- A maximum of four 799 transaction lines will be processed together as either an AP or AR invoice.
- LaRS Form Id will be the unique LaRS transaction identifier and will be used to generate the invoice number for FMS AR and AP invoices.
- The signs (+/-) of the amounts for Interest Benefit and Special Allowance captured in the LaRS summary table will be reversed if the destination of the invoice is AP.
- The signs (+/-) of the amounts for Origination Fee and Lender Fee captured in the LaRS summary table will be reversed if the destination of the invoice is AR.

Key Risks

- The LaRS Vendor/Customer Load program needs to run prior to the LaRS Invoice Interface.
- The LaRS Invoice Interface also needs to run prior to the LaRS Lockbox Receipt Interface.

LaRS Lockbox Receipt Interface



Component Description & Purpose

- The LaRS Lockbox Receipt Interface will create receipts in FMS from remittance data received from Mellon Bank. This remittance data can take three forms: Sallie Mae fees, LaRS fees and Consolidation Loan Rebate fees.
- LaRS fee receipts will be applied to existing, open receivables in FMS following the application rule of oldest first, interest before principle.
- Sallie Mae and Consolidation Loan Rebate fees will require the creation of receivable transactions prior to receipt creation and application. These receivable and receipt transactions will be applied one to one.
- MQ Series will be utilized for this interface. MQ will be responsible for capturing the Mellon file and writing that data to an FMS staging table.
- This component is currently in Build/Test.

Key Open Issues

- Volumes for this interface have not been identified.
- Mellon has not received approval for this development effort and has not started any development work.
- Where will additional data, not required for FMS processing be stored? LaRS or FP DataMart?

LaRS Lockbox Receipt Interface



Key Assumptions

- MQ Series will update status to 'READY' for the 'LaRS' receipt type and to 'NEW' for the 'SALF', 'CLRF', and 'MISF' receipt types.
- No address/site id information is contained in the bank remittance file. The primary, active FMS bill-to-address/site will be used for invoice/receipt creation.
- This program will run only after successful insertion of data into the staging table by MQ Series.
- The Mellon file will contain additional transaction data not required for FMS processing. This data will be routed to LaRS or FP DataMart for storage.

Key Risks

- The LaRS Invoice Interface needs to run prior to the LaRS Lockbox Receipt Interface.
- Mellon development timeline is 8-10 weeks from the time of development approval.

Receivable Posting Reclass



Component Description & Purpose

- The LaRS Receivable Posting Reclass will replace the standard Oracle Multi Fund AR Transfer to GL program. It will act as a wrapper around the standard program functionality while providing necessary custom processing.
- It will be scheduled to automatically run nightly.
- It will transfer descriptive flexfield values from Oracle Receivable receipts to Oracle General Ledger journal lines.
- It will create journal entries that meet ED accounting requirements by reversing and reclassifying accounting distributions created by the standard Oracle Multi Fund AR Transfer to GL program. There is a gap between the distributions created for receipts, which are generated at the receipt header level, and the line level distributions desired by ED.
- This component is currently in Build/Test.

Key Open Issues

- Does standard Oracle accounting satisfy requirements for Credit Memos?

Receivable Posting Reclass



Key Assumptions

- The records written to the GL open interface table by the standard Multi Fund AR Transfer to GL provide links back to the subledger transaction in Reference columns 21 - 30.
- The standard Oracle Multi Fund AR Transfer to GL process is organization specific.
- LaRS Posting Reclass will only reverse and reclass receipts distributions applied against LaRS receivable invoices.
- LaRS Posting Reclass will reverse and reclass receipt distributions only. The default accounting for receivable invoices meet requirements.

Key Risks

- The custom functionality jeopardizes the supportability of the standard accounting transfer process. This risk has been minimized to the extent possible, because the standard accounting transfer will be used and the distributions it creates will flow through to the Oracle GL.

Payment File Creation



Component Description & Purpose

- FMS is required to provide payment files to the Department of Education for Lender Payments. There are two types of payment files for Lender payments: check and electronic.
- The appropriate payment file is selected during the format stage of payment batch process. There will be a one-to-one relationship between a payment batch and a payment file.
- Once the payment file is submitted, ED will validate and certify the file(s).
- ED has provided the file layout requirements and the naming convention for the files.
- This component is currently Build/Test complete.

Key Open Issues

- N/A

Payment File Creation



Key Assumptions

- The payment file requirements provided by ED meet Treasury requirements.
- The user will select the appropriate payment file during the payment batch process.
- An FSA user will FTP the files from FMS to ED. This will utilize the process currently in place for payment file transmission.

Key Risks

- The user could select the wrong payment file during the payment batch process.

Payment Notification



Component Description & Purpose

- The purpose of the Payment Notification program is to notify Lenders of an upcoming payment prior to the actual receipt of the money. This includes payments that will be processed immediately in FMS (>\$25) as well as payments that will be held for future processing in FMS (<\$25).
- This program will send a custom report as an email attachment to the Lender (one per LID) nightly on Mondays and Wednesdays. This custom report will contain payment details pertaining only to the Lender receiving the email.
- The report output will be attached to an email and will be sent via UNIX SendMail.
- The Lender reporting mailbox will receive a copy of all payment notifications.
- This component is currently in Design phase.

Key Open Issues

- Process for Offsetting has not been identified. Debit memos are currently included in the notification for offset details, but may not be necessary.

Payment Notification



Key Assumptions

- All Lenders will have a valid email address in FMS. Lenders with multiple contacts will have one primary contact identified, this primary contact will receive the notification.
- Multiple invoices can be captured into one email notification if multiple invoices are processed as one payment.

Key Risks

- Cannot guarantee that the Lender will receive/read the notification prior to receipt of the payment.
- The payment batch process must to be completed before the Payment Notification program is executed. This risk is minimized by scheduling this notification nightly following the normal payment batch processing schedule. Payment batch processing outside of this schedule should include manual initiation of this notification program.
- Error processing invalid email addresses. Built-in processing will identify invalid email addresses, but this functionality is limited.

Receivable Notification



Component Description & Purpose

- The Lender Receivable Notification will notify Lenders (by LID) twice weekly of open and overdue receivable transactions. This notification will have three buckets: open, current receivables 0-29 days past the transaction due date, transactions 30-59 days overdue, and transactions 60+ days overdue. The 60+ overdue transactions will also include any accrued finance charges.
- The notification will be attached to an email that is transmitted to the Lender via email.
- The Receivable Notification details include the following: Invoice number, Transaction Date, Quarter, Year, Interest, Special Allowance, Origination Fee, Lender Fee, Transaction amount, Net amount, and finance charges as applicable.
- This component is currently in the Design phase.

Key Open Issues

- The volume for this notification has not been identified.

Receivable Notification



Key Assumptions

- All Lenders will have a valid email address in the FMS system.
- The notification will send out one email for every Lender (by LID) with open or overdue receivables.
- Lender email responses will be directed to the LaRS Lender Reporting team mailbox.
- Lenders will have a grace period of 60 days before finance charges are applied. Finance charges will be accrued bi-weekly using the defined Treasury interest rate.
- The Finance charge 'clock' begins on the date the transaction is created in the FMS Oracle system.

Key Risks

- The Vendor / Customer Load program needs to run prior to the Receivable Notification to insure that all email addresses are current.
- The Finance charge accrual process must run before the Receivable Notification to insure that all current Finance charges are included.
- Large notification files could delay email processing.

Lender Monthly Activity Report

Component Description & Purpose

- FSA CFO requires documentation of monthly transactions and activities that have been processed in FMS.
- This report will display the total count and amount of transactions that were processed in AR and AP for a selected month and fiscal year-to-date. This includes data that was received from the LaRS Interface, Mellon Lockbox and manual entries.
- The report will be generated manually on a monthly basis during the month end close process. The report will be generated only once for a given period.
- Sections included in the Report are as follows:
 - Invoices
 - Offsets
 - Receipts
 - Penalty Interest
 - Cancellations
 - Miscellaneous Transactions
- This component is currently in the Design phase.

Lender Monthly Activity Report



Key Open Issues

- Transaction volumes for this report have not been identified.
- Can scheduling be used to reduce performance strain?

Key Assumptions

- Data will be successfully interfaced from LaRS to FMS and from the Mellon Lockbox to FMS .
- Data will be accurate and complete for manually processed FMS transactions.
- FSA CFO will manually generate the report and will be responsible for distributing the report as needed.

Key Risks

- Incorrectly entered or missing transaction code(s) could prevent the transaction(s) from being captured on the report.
- There are potential performance issues due to the amount of data processing required to compile year-to-date transaction totals. This code will be optimized and this risk is minimized by limiting the generation of the report to once per month.

Lender Quarterly Activity Report



Component Description & Purpose

- FSA CFO requires documentation of quarterly transactions and activities that have been processed in FMS.
- This report will display the total count and amount of checks, electronic funds transfers and LaRS 799 invoices that were processed as FMS Payables for a selected quarter.
- There will be three sections in the report:
 - Invoices for the selected quarter that were submitted within that quarter.
 - Invoices for the selected quarter that were submitted after the quarter end.
 - All invoices for the selected quarter.
- The report will be generated manually 90 days after the given quarter has ended. The report will be generated only once for a given quarter/year combination.
- This component is currently in Design phase.

Lender Quarterly Activity Report



Key Open Issues

- Transaction volumes for this report have not been identified.
- Can scheduling be used to reduce performance strain?

Key Assumptions

- 799 data will be successfully interfaced from LaRS to FMS. This will include specific data for transaction quarter/year and submission date.
- FSA CFO will manually generate the report quarterly and will be responsible for distributing it as needed.
- As defined by CFO, the 1st quarter covers the period from October 1st to December 1st.

Key Risks

- There are potential performance issues due to the amount of data processing required to compile transaction data. This code will be optimized and this risk is minimized by limiting the generation of the report to once per quarter.

Payment Detail Report



Component Description & Purpose

- The Payment Detail report will provide data elements not included on the Oracle Standard Payment Register report. The report will provide detailed information for each Lender payment processed in FMS. In addition, the FSA Lender Redesign team will utilize this report to reconcile payments to related invoices.
- The report will be manually generated twice weekly during payment batch processing.
- The report will utilize one parameter for payment batch name.
- The Payment Detail report will provide pertinent information for customer related questions regarding payments, invoices, and bank account information.
- The report will include additional fields for the following data elements:
 - LID (Lender Identification Number)
 - Vendor Name
 - Vendor Address
 - Invoice Number (Form ID)
 - Routing Number
 - Payment Amount
 - Total Payment Count
 - Total Payment Amount
- This component is in Design phase.

Payment Detail Report



Key Open Issues

- Determine whether Sequence Number is essential on Payment Detail report for tracking payments rejected by Treasury for invalid routing numbers.

Key Assumptions

- This report will be manually initiated when a payment batch is created. A payment batch name must be provided.
- Report will be run once and distributed to FSA staff as necessary.
- Payments will be grouped in Payment Batches. Individual payments will not be processed for Lender payments.

Key Risks

- A payment can be voided after the Payment Detail report has been generated. The voided payment would not be reflected on the report.

Summary Issues & Risks

- **Mellon Development Effort:** To date, the Mellon Lockbox development effort has not been initiated. The estimated duration for this development effort is 8-10 weeks. Unless the development duration is reduced, the work will not be completed within our System or Integration testing time frames.
- **SAIG Development:** To date, the development effort for the File Transfer front end (B-Trade) has not been initiated. Depending on the duration required to complete this development, we will be at risk for meeting the testing dates.
- **Dependency on Email alerts/Notifications:** The Lender process, both within LaRS and FMS AR/AP, is heavily dependent on email alerts/notifications for communication to the Lender community. This adds additional risk due to the dependency on accurate email addresses, functioning email networks, as well as, firewall filtering constraints.
- **AR/AP Offsetting Functionality:** The “vanilla” Oracle AR/AP Offsetting functionality, does not produce the proper accounting events in order to meet the CFO requirements. The Oracle functionality also involves an increased number of added system processes that could impact performance. A manual process is being developed to meet both the business and accounting requirements.