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Loan Origination Subsystem

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Task Order AC26 CDS Replatforming

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Technical Specification

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Technical Specification

2 Overview

3 [Bill—this page is the intro to the 501 tech spec in case you want to use it as a jumping off place.
4 If you want to delete the page, make sure you delete the section break below this paragraph as
5 well.] The purpose of the Technical Specification is to identify how allocated software
6 requirements will be implemented into the LOS environment. Impacted system resources defined
7 for this document are the database, directory structures, and application software (both batch and
8 online), and any special system resources necessary for successful implementation.

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ex010.eco

Program	Ex010.eco
Program Description	This program prepares the institution excess cash (IE) transaction that is sent to the Central Database (CDS). This file contains detail information on excess cash transaction that have been received by LOS and applied to the sending schools. School, funds_document, applied_funds, af_sch_xs_cash, received_funds and rf_batch tables are referenced to create the outbound CDS file. This program also produces statistics of records read, written, etc.
Inputs	
Outputs	/app/'env'/if/central_db/cd_financial_out/ex010ie.dat
Requirements List (From RAM)	
1.7.2	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Program Function	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Narrative	<ul style="list-style-type: none"> ▪ Create output file to new directory. ▪ All financial output data file should go to: /app/'env'/if/servicing/financial_out

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ex020.eco

Program	Ex020.eco
Program Description	This program produces the AD document control transaction that is sent to the central database. This transaction contains total information on the SF215 deposit slips that LOS deposits to the FRB (Federal Reserve Bank). It also contains information on adjustment SF215s that the FRB sends in the case where we underreport the amount of a check. It also includes SF 5515s that the FRB sends LOS in the case of LOS underreporting the amount on a deposit.
Inputs	
Outputs	/app/'env'/if/central_db/cd_financial_out/ex020ad.dat /app/'env'/reports/current/daily/e020'
Requirements List (from RAM)	
1.7.2	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Program Function	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Narrative	<ul style="list-style-type: none"> • create output file to new directory. • all financial output data file should go to: /app/'env'/if/servicing/financial_out

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ex715.ec

PROGRAM	Ex715.ec
PROGRAM DESCRIPTION	This program will read financial transactions (PY, CA, AD, EX) from gaps_batch_detl tables and populate records to draw down tables or excess cash tables. Any transaction that fail editing, or has insufficient fund for adjustment, or has amount not matching with existsting record in database for reversals will be saved in the gaps_error_detl table. Errors will be corrected manually and restaged, by another program or script, or ex715 to process. Ex715 will process these corrected transactions as if they are newly received, i.e. no special process is necessary to reprocess these transactions. The institution drawdown (FID) transactions are created, for CDS, for all drawdown and reversal, cancelled transactions received from GAPS
Inputs	
Outputs	/app/'env'/if/central_db/cd_financial_out/ex715id.dat
Requirements List (from RAM)	
1.7.2	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Program Function	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Narrative	<ul style="list-style-type: none"> • create output file to new directory. • all financial output data file should go to: /app/'env'/if/servicing/financial_out

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ex716.ec

PROGRAM	Ex716.ec
PROGRAM DESCRIPTION	This program extracts records from the school_draw_down table and creates 'ID' transactions to be sent to Central Database
Inputs	
Outputs	/app/'env'/if/central_db/cd_financial_out/ex716id.dat
Requirements List (from RAM)	
1.7.2	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Program Function	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Narrative	<ul style="list-style-type: none"> • create output file to new directory. • all financial output data file should go to: /app/'env'/if/servicing/financial_out

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ex717.eco

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PROGRAM	Ex717.eco
PROGRAM DESCRIPTION	This program generate drawdown txn('ID') to CDS when allocation/re-allocation of drawdown amounts are applied across the program years
Inputs	
Outputs	/app/'env'/if/central_db/cd_financial_out/ex717id.dat
Requirements List (from RAM)	
1.7.2	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Program Function	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Narrative	<ul style="list-style-type: none"> • create output file to new directory. • all financial output data file should go to: /app/'env'/if/servicing/financial_out

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ex810.ec

PROGRAM	Ex810.ec
PROGRAM DESCRIPTION	This program generates unidentified deposits transactions, for CDS, that were received by LOS but not identified as institution excess cash.
Inputs	
Outputs	Previously ex810 created an output file in /app/'env'/if/central_db/cd_financial_out/ex810au.dat
Requirements List (from RAM)	
1.7.2	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Program Function	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Narrative	<ul style="list-style-type: none"> • Create output file to new directory. • Under the new requirements, all financial output data file should go to: /app/'env'/if/servicing/financial_out

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if030.ec

PROGRAM ID	IF030
PROGRAM DESCRIPTION	This program processes the daily transmissions received from the Central Database, checking for transmission and batch errors, and loads the LO transactions into records in the cdb_batch_detl table in the LOS database. It also loads the cdb_batch_status table with batch information. In the case of an error (XE) transaction returned from CDS, the program will load the error table, cdb_detl_errors and also change the status of the original transaction to R (rejected) in the cdb_out_batch_detl table. The status of batches is also tracked through acknowledgement (AK) and reject (XE) transactions by updating the cds_batches table. Batches sent from CDS to LOS are inserted as new records into that table. System balancing of the XB and XE transactions with the amount sent (stored on the LOS database) is performed. If in balance, the data is put onto the LOS DB with the resolved date populated with today's date. If not in balance, the data is put onto the LOS DB with no resolved date and an XE (error) transaction is sent to CDS.
Inputs	TABLE: out_batch_stat_id TABLE: cdb_out_batch_detl TABLE: loan_master FILE: /app/prod/if/central_db/cd_work_in/los*
Outputs	TABLE: cdb_batch_status TABLE: cdb_batch_detl TABLE: cdb_system_balance TABLE: cds_batches TABLE: disb_xe_hold FILE: /app/prod/if/central_db/cd_general_out/xerrors.dat FILE: /app/prod/if/central_db/cd_work_in/if030.log FILE: /app/prod/if/central_db/cd_work_in/if030.err
Requirements List (from RAM)	
1.7.2	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
	6.4.5 ALL, GN003—LO will need to change the TR001 error code to a GN003 when it encounters a bad transaction type, which includes encountering any LC transactions.

	6.4.6 GAK, GN012—LO will validate that Accepted and Rejected record counts are nonblank and are numeric.
	6.4.7 GAK, BA040—LO will validate that the batch being acknowledged also has GXB transactions in the same transmission.
	6.4.8 GXB, BA035—LO will validate that the Balancing Group field is always “B.” LO does not accept Period Balancing GXB transactions.
Program Function	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Narrative	read input file from the new directory: <ul style="list-style-type: none"> • /app/'env'/if/servicing/work_in/los* <p>create output file to new directory.</p> <ul style="list-style-type: none"> • /app/'env'/if/servicing/general_out/xerrors.dat • /app/'env'/if/servicing/ work_in/if030.log • /app/'env'/if/servicing/ work_in/if030.err
Program Function	ALL, GN003—LO will need to change the TR001 error code to a GN003 when it encounters a bad transaction type, which includes encountering any LC transactions.
Narrative	Transactions that do not have a valid Transaction Type will receive a GN003 error.
Program Function	GXB, BA035—LO will validate that the Balancing Group field is always “B.” LO does not accept Period Balancing GXB transactions.
Narrative	Balancing group field must be a ‘B’ (Balancing). A transaction with a balancing group field of ‘P’ (period) is invalid. A balancing group field other than ‘B’ results in a BA035 error.
Program Function	GAK, GN012—LO will validate that Accepted and Rejected record counts are nonblank and are numeric.
Narrative	Record count cannot be blank or zero. Must be numeric.
Program Function	GAK, BA040—LO will validate that the batch being acknowledged also has GXB transactions in the same transmission.
Narrative	LO will validate that the batch being acknowledged also has GXB transactions in the same transmission.

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if030_cdb_rec.sh

PROGRAM	if030_cdb_rec.sh
PROGRAM DESCRIPTION	<p>This script will copy all the files received from CDS in cd_in directory to cd_work_in directory and rename them properly. This script will also compress and archive CDS input files to cd_batch_backup directory.</p> <p>Following are the 4 different types of files received by LOS in cd_in directory from CDS. These are identified by based on 3 character extensions to the file names. Any file from CDS will have format LOS.YYYYMMDDHHMM.XXX, where XXX is the suffix described below.</p> <p>TZZ - The trailer of transmission files accept by CDS PRD - The standard daily production file sent by CDS to LO RDC - The monthly RDC files send by CDS to LO PRE - The result file from the new CDS Pre-Edit subsystem</p>
Inputs	/app/'env'/if/central_db/cd_in/LOS.YYYYMMDDHHMM.XXX
Outputs	/app/'env'/if/ central_db / cd_work_in/los.YYYYMMDDHHMM /app/'env'/if/ central_db / cd_work_in/rdc.YYYYMMDDHHMM /app/'env'/if/ central_db / cd_work_in/pre.YYYYMMDDHHMM /app/'env'/if/ central_db / cd_batch_backup /los.YYYYMMDDHHMM.Z /app/'env'/if/ central_db / cd_batch_backup /rdc.YYYYMMDDHHMM.Z /app/'env'/if/ central_db / cd_batch_backup /pre.YYYYMMDDHHMM.Z
Requirements List (from RAM)	1.7.3 Both LO and LC will change their current file transmission send and received scripts to exchange the transmission files with the Servicing.
Program Function	Both LO and LC will change their current file transmission send and received scripts to exchange the transmission files with the Servicing

Narrative	<ul style="list-style-type: none">• Modify script to receive transmission files from the Servicing.• Replace all directories with the new servicing directories. <p>i.e:</p> <p>INPUT:</p> <ul style="list-style-type: none">• /app/'env'/if/servicing/in/LOS.YYYYMMDDHHMM.XXX <p>OUTPUT:</p> <ul style="list-style-type: none">• /app/'env'/if/servicing / work_in/los.YYYYMMDDHHMM• /app/'env'/if/ servicing / work_in/rdc.YYYYMMDDHHMM• /app/'env'/if/ servicing / work_in/pre.YYYYMMDDHHMM• /app/'env'/if/ servicing / batch_backup /los.YYYYMMDDHHMM.Z• /app/'env'/if/ servicing / batch_backup /rdc.YYYYMMDDHHMM.Z• /app/'env'/if/ servicing / batch_backup /pre.YYYYMMDDHHMM.Z
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if040

PROGRAM	if040
PROGRAM DESCRIPTION	This program batches into transmissions all the data files that are to be sent to the Central Database using FTP. The program processes the out going transactions by type. Each of the three types requires different processing. First the non-financial transactions (labeled 'D') are written to the output transmission file. Second, the financial transactions ('F') are written and the system balancing processing done. Last, the general transactions ('G') are processed.
Inputs	<p>FILE: Any file in /app/<dir>/if/central_db/cd_financial_out/ where the filename ends in “.dat”</p> <p>FILE: Any file in /app/<dir>/if/central_db/cd_non_financial_out/ where the filename ends in “.dat”</p> <p>FILE: Any file in /app/<dir>/if/central_db/cd_general_out/ where the filename ends in “.dat”</p>
Outputs	<p>FILE: /app/<dir>/if/central_db/cd_general_out/xbs.dat</p> <p>FILE: /app/<dir>/if/central_db/cd_work_out/cds.YYYYMMDDhhmmssh</p> <p>TABLE: cdb_out_batch_stat table</p> <p>TABLE: cdb_out_batch_detl table</p> <p>TABLE: cdb_system_balance</p> <p>TABLE: cdb_batch_status</p> <p>TABLE: cds_batches</p>
Requirements List (from RAM)	
1.7.2	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
2.6.1	Initial and subsequent Disbursement transactions will be grouped into batches separate from other financial transactions
2.6.2.1	All adjustment transactions will be grouped into separate batches (known as financial non-booking) from other financial transactions. They are Disbursement Adjustments (FLD), Disbursement Cancellations (FLC), consolidation payoffs (FCA)and Loan Amount Approved Adjustments (FLJ)
2.6.9	Funds transactions (FID, FIE, FIG) will be put into a separate batch from other financial transactions

2.6.12	DSD Transactions will be grouped into batches separate from other Non-Financial transactions (LO only)
2.6.10	Each set of system balancing transactions (GXB) will be in its own separate batch (so if there are three financial batches, there will be three batches of GXB transactions – each consisting of 12 system balancing transactions)
2.6.11	In the transmission file, financial batches come first, followed by financial non-booking, followed by financial funds batches, followed by non-financial batch (school file), followed by non-financial others, followed by non-financial general batches.
Program Function	Initial and subsequent Disbursement transactions will be grouped into batches separate from other financial transactions
Narrative	<ul style="list-style-type: none"> • Modify if040 to insert a trailer and create a new batch when the 3_fld.if040 file is picked up to be processed
Program Function	Adjustment transactions will have to be grouped into separate batches (known as financial non-booking) from other financial transactions – they are Disbursement Adjustments (FLD), Disbursement Cancellations (FLC), and Loan Amount Approved Adjustments (FLJ)
Narrative	<ul style="list-style-type: none"> • Modify if040 to insert a trailer and create a new batch when the 3_fld.if040 file is picked up to be processed • Modify if040 to insert a trailer and create a new batch when the 6_funds.if040 file is picked up to be processed
Program Function	Funds transactions (FID, FIE, FIG) will be put into a separate batch from other financial transactions
Narrative	<ul style="list-style-type: none"> • Modify if040 to insert a trailer and create a new batch when the 6_funds.if040 file is picked up to be processed • Modify if040 to insert a trailer and create a new batch when the 7_other.if040 file is picked up to be processed
Program Function	DSD Transactions will be grouped into batches separate from other Non-Financial transactions
Narrative	<ul style="list-style-type: none"> • Modify if040 to insert a trailer and create a new batch when the 2_other.if040 file in cd_non_financial_out is picked up to be processed

Program Function	Each set of system balancing transactions (GXB) will be in its own separate batch (so if there are three financial batches, there will be three batches of GXB transactions – each consisting of 12 system balancing transactions)
Narrative	<ul style="list-style-type: none"> • Modify if040 to insert a trailer and create a new batch when processing a GXB where the batch date/batch time/batch no combination is different than the prior record
Program Function	Financial Batches will come before Non-Financial and General Batches in the Transmission File
Narrative	<ul style="list-style-type: none"> • Modify if040 to process the Financial Batches, then Non-Financial Batches, then General Batches

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if040.eco

PROGRAM	If040.eco
PROGRAM DESCRIPTION	The program processes the out going transactions by type. Each of the three types requires different processing. First the non-financial transactions (labeled 'D') are written to the output transmission file. Second, the financial transactions ('F') are written and the system balancing processing done. Last, the general transactions ('G') are processed.
Inputs	/app/'env'/if/central_db/cd_financial_out /app/'env'/if/central_db/cd_general_out /app/'env'/if/central_db/cd_general_out
Outputs	/app/'env'/if/central_db/cd_work_out
Requirements List (from RAM)	
1.7.2	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Program Function	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Narrative	<ul style="list-style-type: none"> • read input data file from new directory /app/'env'/if/servicing/financial_out, /app/'env'/if/servicing/general_out /app/'env'/if/servicing/non_financial_out • create output file to new directory /app/'env'/if/servicing/work_out

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if040_prep

PROGRAM	if040_prep
PROGRAM DESCRIPTION	Tars all the input transaction files together, puts it in the archive directory and compresses it. Cleans up the archive directory by removing tar files older than 60 days. Breaks financial transaction files up into files of no more than 10,000 records so that the INFORMIX transaction buffer is not overloaded
Inputs	<p>FILE: Any file in /app/<dir>/if/central_db/cd_financial_out/ where the filename ends in “.dat”</p> <p>FILE: Any file in /app/<dir>/if/central_db/cd_non_financial_out/ where the filename ends in “.dat”</p> <p>FILE: Any file in /app/<dir>/if/central_db/cd_general_out/ where the filename ends in “.dat”</p>
Outputs	<p>FILE: /app/<dir>/if/central_db/cd_batch_backup/if040in<datetime>.tar.Z</p> <p>FILE: /app/<dir>/if/central_db/cd_financial_out/*.dat files</p> <p>FILE: /app/<dir>/if/central_db/cd_non_financial_out/*.dat files</p> <p>FILE: /app/<dir>/if/central_db/cd_general_out/*.dat files</p>
Requirements List (from RAM)	
2.6.1 2.6.3	All initial and subsequent Disbursement transactions will be grouped into batches separate from other financial transactions
2.6.4	All adjustment transactions will be grouped into separate batches (known as financial non-booking) from other financial transactions – they are Disbursement Adjustments (FLD), Disbursement Cancellations (FLC), and Loan Amount Approved Adjustments (FLJ)
2.6.9	Funds transactions (FID, FIE, FIG) will be put into a separate batch from other financial transactions
2.6.2.2	All Disbursement transactions, initial and subsequent, will be sorted by Loan ID and Disbursement Number
2.6.13.2	All Disbursement Adjustment transactions will be sorted by Loan ID, Disbursement Number, and Disbursement Activity Sequence Number
2.6.13.2	All Disbursement Cancellation transactions will be sorted by Loan ID and Disbursement Number
2.6.20	All Loan Amount Approved Adjustment transactions will be sorted by Loan ID
2.6.11	All subsequent disbursement transactions will come after the initial disbursement transactions in the financial booking batches.

2.6.6	All Disbursement Cancellation transactions will come after the Disbursement Adjustment transactions in the financial non-booking batches
2.6.8	All Loan Amount Approved Adjustment transactions will come after the Disbursement Adjustment and Disbursement Cancellation transactions within the financial non-booking batches
2.6.14.2 2.6.15.1 2.6.15.2	Regenerated Disbursement transactions(from GXE transactions) will be grouped in batches with other Disbursement transactions
2.6.13.1	Regenerated Adjustment transactions (from GXE transactions) will be grouped in batches with other Adjustment transactions
2.6.12	DSD Transactions will be grouped into batches separate from other Non-Financial transactions
2.6.18	All other transactions that are regenerated from error transactions (GXE) will be grouped in the appropriate batch
Program Function	<ul style="list-style-type: none"> • Initial and subsequent Disbursement transactions will be grouped into batches separate from other financial transactions • Regenerated Disbursement transactions(from GXE transactions) will be grouped in batches with other Disbursement transactions • All subsequent disbursement transactions will come after the initial disbursement transactions in the financial booking batches.
Narrative	<ul style="list-style-type: none"> • Pull all records that start with “FLA” from every file in cd_financial_out that ends in “.dat” into a new file called 1_flf.if040 • Pull all records that start with “FBB” from every file in cd_financial_out that ends in “*.dat” into the 1_flf.if040 file • Pull all records that start with “FLB” from every file in cd_financial_out that ends in “*.dat” into a new file called 2_flb.if040

Program Function	<ul style="list-style-type: none"> ▪ Adjustment transactions will have to be grouped into separate batches (known as financial non-booking) from other financial transactions – they are Disbursement Adjustments (FLD), Disbursement Cancellations (FLC), and Loan Amount Approved Adjustments (FLJ) ▪ All Disbursement Cancellation transactions will come after the Disbursement Adjustment transactions in the financial non-booking batches ▪ All Loan Amount Approved Adjustment transactions will come after the Disbursement Adjustment and Disbursement Cancellation transactions within the financial non-booking batches ▪ Regenerated Adjustment transactions (from GXE transactions) will be grouped in batches with other Adjustment transactions ▪ All other transactions that are regenerated from error transactions (GXE) will be grouped in the appropriate batch
Narrative	<ul style="list-style-type: none"> ▪ Pull all records that start with “FLD” from every file in cd_financial_out that ends in “.dat” into a new file called 3_fld.if040 ▪ Pull all records that start with “FLC” from every file in cd_financial_out that ends in “.dat” into a new file called 4_flc.if040 ▪ Pull all records that start with “FLJ” from every file in cd_financial_out that ends in “.dat” into a new file called 5_flj.if040
Program Function	<ul style="list-style-type: none"> ▪ Funds transactions (FID, FIE, FIG) will be put into a separate batch from other financial transactions ▪ All other transactions that are regenerated from error transactions (GXE) will be grouped in the appropriate batch
Narrative	<ul style="list-style-type: none"> ▪ Pull all records that start with “FID” from every file in cd_financial_out that ends in “.dat” into a new file called 6_funds.if040 ▪ Pull all records that start with “FIE” from every file in cd_financial_out that ends in “.dat” into the 6_funds.if040 file ▪ Pull all records that start with “FIG” from every file in cd_financial_out that ends in “.dat” into the 6_funds.if040 file ▪ Pull all remaining records from every file in cd_financial_out that ends in “.dat” into a new file called 7_other.if040
Program Function	All Disbursement transactions, initial and subsequent, will be sorted by Loan ID and Disbursement Number

Narrative	<ul style="list-style-type: none">▪ Sort the 1 fla.if040 file by Loan ID and reverse transaction type▪ Sort the 2 flb.if040 file by Loan ID and Disbursement Number
Program Function	All Disbursement Adjustment transactions will be sorted by Loan ID, Disbursement Number, and Disbursement Activity Sequence Number
Narrative	<ul style="list-style-type: none">▪ Sort the 3 fld.if040 file by Loan ID, Disbursement Number and Disbursement Activity Sequence Number

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if040_cdb_prep.sh

PROGRAM	if040_cdb_prep.sh
PROGRAM DESCRIPTION	<p>This program:</p> <ol style="list-style-type: none"> 1. Tars all the input transaction files together, puts it in the archive directory and compresses it. 2. Cleans up the archive directory by removing tar files older than 60 days. 3. Breaks financial transaction files up into files of no more than 10,000 records so that the INFORMIX transaction buffer is not overloaded.
Inputs	subdirectories of /app/'env'/if/central_db/
Outputs	subdirectories of /app/'env'/if/central_db/
Requirements List (from RAM)	1.7.3 Both LO and LC will change their current file transmission send and received scripts to exchange the transmission files with the Servicing.
Program Function	Modify script to prepare file from/to new servicing directories.
Narrative	<ul style="list-style-type: none"> • this script should be similar to “if040_cdb_prep.sh” • use new servicing directory to replace all central_db directory in the if040_cdb_prep.sh

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if040_cdb_send.sh

PROGRAM	if040_cdb_send.sh
PROGRAM DESCRIPTION	This script will <ol style="list-style-type: none"> 1. Transmits the output data file to the Servicing 2. Compresses the file. 3. Moves the file to the output directory. 4. Cleans up the backup directory.
Inputs	/app/if/servicing/work_out/svc.YYYYMMDDHHHMMSSHH
Outputs	
Requirements List (from RAM)	1.7.3 Both LO and LC will change their current file transmission send and received scripts to exchange the transmission files with the Servicing.
Program Function	Both LO and LC will change their current file transmission send and received scripts to exchange the transmission files with the Servicing
Narrative	<ul style="list-style-type: none"> • modify current script to exchange the transmission files with the Servicing. • use new servicing directories to replace all CDS directories.

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if045.eco

PROGRAM	If045.eco
PROGRAM DESCRIPTION	It reads cdb_batch_status table for all the records with batch status I or O for all financial+nonfinancial batch and seeks corr. records from cdb_batch_Detl. It creates XB/AK/XE trans for F batch and Ak/XE trans for D batch.
Inputs	
Outputs	/app/'env'/if/central_db/cd_general_out/ak_xb_xe.dat /app/'env'/if/central_db/cd_work_out/if045.log
Requirements List (from RAM)	
1.7.2	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Program Function	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Narrative	write ak_xb_xe.dat to new directory: /app/'env'/if/servicing/general_out write if045.log to new directory: /app/'env'/if/servicing/work_out

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if046.eco

PROGRAM	If046.eco
PROGRAM DESCRIPTION	This program selects all those trans which are corrected by the CSRs and need to be resent to the CDS
Inputs	Database
Outputs	/app/'env'/if/central_db/cd_financial_out/if46fi.dat /app/'env'/if/central_db/cd_non_financial_out/if46nf.dat /app/'env'/if/central_db/cd_work_out/if046.err
Requirements List (from RAM)	
1.7.2	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Program Function	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Narrative	/app/'env'/if/servicing/financial_out/if46fi.dat /app/'env'/if/servicing/non_financial_out/if46nf.dat /app/'env'/if/servicing/work_out/if046.err

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if051.ec

PROGRAM	if051.ec
PROGRAM DESCRIPTION	This program reads the cdb_batch_detl table and extracts DRQs. The information is then put into the input file for mass export and into the drq table in the database for use by if062. IF051 is designed to be run once a day [or, once nightly, or once a week]. After if030 and image scan have finished for the night.
Inputs	drq table
Outputs	/app/'env'/if/central_db/cd_work_out/if051.log /app/'env'/if/drq_image/drq_work_in/if51MMDD.exp
Requirements List (from RAM)	
1.7.2	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Program Function	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Narrative	creates log file in new directory: /app/'env'/if/servicing/work_out/if051.log

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if062.ec

PROGRAM	if062.ec
PROGRAM DESCRIPTION	This program puts images and image header information into the correct formats for export to the CDS. It also generates and runs the ftp command file that sends the files to the CDS. All outputs, renamed images, IH header file, and ftp command shell are saved to backup. The backups are automatically erased after 30 calander days.
Inputs	/app/'env'/if/drq_image/drq_in1/if51*.xxx
Outputs	/app/'env'/if/drq_image/drq_work_out/*.tif /app/'env'/if/drq_image/drq_work_out/*.HDR /app/'env'/if/drq_image/drq_work_out/testftp /app/'env'/if/drq_image/drq_backup/D%sT%sB%04d.tar /app/'env'/if/drq_image/drq_out/if062.log /app/'env'/reports/current/weekly/xxxxmdd.rpt
Requirements List (from RAM)	1.7.4 The imaging programs for the LOS will be modified to send image files to Servicing.
Program Function	Modify imaging programs to process imaging files using new "dataset.config" file.
Narrative	<ul style="list-style-type: none"> • program will continue to use the drq directories to store imaging and index files. • program can only run once but the imaging and index files must be used for both CDS and servicing for the parallel processing phase. • create new data set configuration file for servicing. • by default, program should create ftp script and transmit files to the Servicing •

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if064.ec

PROGRAM	if064.ec
PROGRAM DESCRIPTION	This program reads the drq table and looks for records marked with a 'S'end. The record is then used to create a DRQ to be sent to CDS with a 'R' in the request reason field, to indicate that no image was found.
Inputs	drq table
Outputs	/app/'env'/if/central_db/cd_non_financial_out/if064rq.dat /app/'env'/if/central_db/cd_work_out/if064.log
Requirements List (from RAM)	
1.7.2	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Program Function	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Narrative	create output to new directories: /app/'env'/if/servicing/ non_financial_out/if064rq.dat /app/'env'/if/servicing/ work_out/if064.log

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if500

Program	If500
Program Description	This program will read the one time file containing the DSD transactions coming from CDS and load the non Direct Loan schools into Peps_school table
Inputs	/app/'env'/if/servicing/works_in/SVC???
Outputs	TABLE: peps_school
Requirements List (from RAM)	<p>The LOS will receive from CDS a file of DSD transactions for all schools on its system(Direct Loan and Non Direct Loan) and do the following:</p> <p>Load the information for non Direct Loan schools into the school file.</p> <p>Compare field by field, the data on the DSD transactions against the school file for all Direct Loan schools.</p> <p>Prepare a report displaying the discrepancies as a result of the comparison for Direct Loan schools.</p> <p>Develop a manual process to resolve the data discrepancies</p>
	The DSD transaction will come in the old format(existing format).
Program Function	Read the file containing the DSD transactions from the CDS and load the non Direct Loan into the peps_school table
Narrative	<p>read input data file from new directory /app/'env'/if/servicing/works_in</p> <p>Load the records into the peps_school table</p>

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Ib001

PROGRAM	Ib001
PROGRAM DESCRIPTION	This program will select all unbooked, uncanceled actual disbursements with accepted promissory notes where the activity date is less than or equal to the current date. The program will book these disbursements. It will create an FLA, FLB, FLC or FLD transaction to send to CDS for those actual disbursements that can be booked.
Inputs	<ul style="list-style-type: none"> • TABLE: loan_master • TABLE: disburse_activity • TABLE: disbursements • TABLE: prom_note_detail • TABLE: plus_loans • TABLE: person • TABLE: person_ssn_hist • TABLE: xe_recv
Outputs	<ul style="list-style-type: none"> • FILE: /app/<dir>/if/central_db/cd_financial_out/Ib001la.dat • FILE: /app/<dir>/if/central_db/cd_financial_out/Ib001lb.dat • FILE: /app/<dir>/if/central_db/cd_financial_out/Ib001lc.dat • FILE: /app/<dir>/if/central_db/cd_financial_out/Ib001ld.dat • FILE: /app/<dir>/if/central_db/cd_work_out/Ib001.log • FILE: /app/<dir>/if/central_db/cd_work_out/Ib001.err • TABLE: loan_master • TABLE: disburse_activity
Requirements List (from RAM)	
2.6.17	LO will not book a disbursement adjustment transaction, for one complete processing day, if the disbursement it is adjusting has been booked on the same day.
Program Function	LO will not book a disbursement adjustment transaction, for one complete processing day, if the disbursement it is adjusting has been booked on the same day.

Narrative	• Modify lb001 to not book an adjustment where the disbursement has been booked that day

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lb001.ec

PROGRAM	lb001.ec
PROGRAM DESCRIPTION	This program selects all unbooked disburse_activity records where the activity date is less than or equal to the current date. If an accepted promissory note exists, an accepted credit check for PLUS loans, and no XE exists for a previous disbursement, an FLA, FLB, FLC or FLD record is created to be sent to CDS.
Inputs	Informix database
Outputs	/app/'env'/if/central_db/cd_financial_out/lb001a.dat /app/'env'/if/central_db/cd_financial_out/lb001b.dat /app/'env'/if/central_db/cd_financial_out/lb001c.dat /app/'env'/if/central_db/cd_financial_out/lb001d.dat /app/'env'/if/central_db/cd_work_out/lb001.err /app/'env'/if/central_db/cd_work_out/lb001.log
Requirements List (from RAM)	
1.7.2	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Program Function	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Narrative	create output to new directories: /app/'env'/if/servicing/financial_out/lb001a.dat /app/'env'/if/ servicing /financial_out/lb001b.dat /app/'env'/if/ servicing /financial_out/lb001c.dat /app/'env'/if/ servicing /financial_out/lb001d.dat /app/'env'/if/ servicing /work_out/lb001.err /app/'env'/if/ servicing /work_out/lb001.log

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lo100.ec

PROGRAM	lo100.ec
PROGRAM DESCRIPTION	<p>This program performs the following functions to process change origination records:</p> <ol style="list-style-type: none"> (1) Edit and validate change record transactions. (2) Apply valid changes to the LOS database. (3) Create Loan History or Disbursement History record for each change applied to the LOS database. (4) Update error table for each rejected change and create case for each batch with an error. (5) Acknowledge all changes, including error codes, via Change Acknowledgment File. (6) Create CDS transactions for changes applied to booked loans.
Inputs	
Outputs	/app/%s/if/central_db/cd_non_financial_out/lo100bb.dat /app/%s/if/central_db/cd_financial_out/lo100lj.dat /app/%s/if/central_db/cd_non_financial_out/lo100lm.dat /app/%s/if/central_db/cd_non_financial_out/lo100ls.dat /app/%s/if/central_db/cd_non_financial_out/lo100lx.dat
Requirements List (from RAM)	
1.7.2	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
	Rename all output files to include time stamp.
Program Function	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Narrative	create output to new directories: /app/%s/if/servicing/ non_financial_out/lo100bb.dat /app/%s/if/ servicing / financial_out/lo100lj.dat /app/%s/if/ servicing / non_financial_out/lo100lm.dat /app/%s/if/ servicing / non_financial_out/lo100ls.dat /app/%s/if/ servicing / non_financial_out/lo100lx.dat

Program Function	Rename output files to include date and time stamp
Narrative	Name the output files above as followed: lo100bb.dat → lo100bbYYYYMMDDHHMMSS.dat lo100lj.dat → lo100ljYYYYMMDDHHMMSS.dat lo100lm.dat → lo100lmYYYYMMDDHHMMSS.dat lo100ls.dat → lo100lsYYYYMMDDHHMMSS.dat lo100lx.dat → lo100lxYYYYMMDDHHMMSS.dat

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pyco020.eco

PROGRAM	pyco020.eco
PROGRAM DESCRIPTION	<p>This program generates the Mega Record transaction file to enable the CDS system to synchronize their loan information with that of the LOS. A mega script sets the mega_data.pyco_ind to 'Y'. This program selects all loans so flagged and for each such loan it will create the following:</p> <ul style="list-style-type: none"> - one LA transaction - all associated BB transactions - - one to nineteen LB transactions - for each LB transaction, zero to one LC transactions - - for each LA and LB transaction, one to an infinite number of LD transactions
Inputs	/app/env/if/central_db/cd_work_out/pyco020.restart
Outputs	/app/env/pyco/cd_mega_out/mega.yyyymmddhhmmsshh /app/env/if/central_db/cd_work_out/pyco020.log /app/env/if/central_db/cd_work_out/pyco020.restart
Requirements List (from RAM)	
1.7.2	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Program Function	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Narrative	write output to new directories: /app/env/if/servicing/ work_out/pyco020.log /app/env/if/servicing/ work_out/pyco020.restart

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pyco080.ec

PROGRAM	pyco080.ec
PROGRAM DESCRIPTION	This program extracting records from the pyco_data table , creates the LX and LJ transactions to be sent to the Central Database
Inputs	Informix Database
Outputs	/app/'env'/if/central_db/cd_financial_out/pyco080lj.dat /app/'env'/if/central_db/cd_non_financial_out/pyco080lx.dat
Requirements List (from RAM)	
1.7.2	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Program Function	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Narrative	write output to new directories: /app/'env'/if/servicing/financial_out/pyco080lj.dat /app/'env'/if/ servicing/non_financial_out/pyco080lx.dat

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rp110

2 DMR 3569.33

PROGRAM	Rp110
PROGRAM DESCRIPTION	This program generates a statistics report of loan information for the batch cycle date.
Inputs	TABLE: loan_master TABLE: disburse_activity
Outputs	FILE: /app/<dir>/reports/current/daily/btchmmdd.txt
Requirements List (from RAM)	
2.6.19	The Batch Statistics Report will display the count of the number of disbursement adjustment transactions being held for the current processing day.
Program Function	Display the count of the number of disbursement adjustment transactions being held for the current processing day.
Narrative	<ul style="list-style-type: none"> Select the count of all unbooked FLD transactions(activity_code = 'A', booked_date is null) from the disburse_activity table that have matching disb_id with the disbursements (activity_code = 'D') being booked for the current processing day (booked_date = 'curr_dt')

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sb010

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PROGRAM	Sb010
PROGRAM DESCRIPTION	This program will keep track on a daily basis how many financial batches were sent accepted by CDS, how many financial batches were sent and rejected by CDS. The program will count the batches based on the date_ack_received, which way if CDS misses the deadline some day we will misses the deadline, we will have report for that day with all zero's and next day we will be reporting two days financial transactions.
Inputs	TABLE: cds_batches TABLE: cdb_system_balance TABLE: editing_control
Outputs	FILE: /app/<dir>/reports/current/daily/sb10mdd.rpt
Requirements List (from RAM)	
5.6.1	The mention of "CDS" in the heading of any system balancing schedule or report will now read "SVC".
5.6.2	Modify all manual procedures related to the program.
Program Function	Currently when the report is produced the heading reads "LO to "CDS" " and "CDS to LO"
Narrative	When the report is created it will now read "LO to SVC" and "SVC to LO"

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sb020

PROGRAM	Sb020
PROGRAM DESCRIPTION	This program creates the monthly schedule A for system balancing. Any batches/transactions sent from CDS with a batch date between the 1 st and last day of the month and an acknowledgement date between the 1 st day of the reported month and the 1 st business day of the next month will be included. Included will be any batches/trxn with a batch prior to the 1 st day of the month and an ack. Date between the 2 nd . Business day of the reported month and the 1 st business day of the next month. Current totals will be inserted into cds_monthly_totals on the database. Fiscal year-to-date totals will be accumulated and reported.
Inputs	TABLE: cds_batches TABLE: cdb_system_balance TABLE: editing_control TABLE: cds_monthly_totals
Outputs	FILE: /app/<dir>/reports/current/monthly/sb20mmdd.rpt
Requirements List (from RAM)	
5.6.1	The mention of “CDS” in the heading of any system balancing schedule or report will now read “SVC”.
5.6.2	Modify all manual procedures related to the program.
Program Function	Currently when the report is produced the heading reads “LO to “CDS” “ and “CDS to LO”
Narrative	When the report is created it will now read “LO to SVC” and “SVC to LO”

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sb030

PROGRAM	Sb030
PROGRAM DESCRIPTION	This program will create a monthly summary report for the financial transactions booked into the LO database. Any records processed or booked with the dates between the first and the last day of the month will be included in the business of the month report. All calculation resulted from the current month will be inserted to LO database table.
Inputs	TABLE: disburse_activity TABLE: loan_origin_hist TABLE: school_draw_down TABLE: applied_funds TABLE: funds_document TABLE: received_funds TABLE: los_monthly_totals TABLE: cds_monthly_totals
Outputs	FILE: /app/<dir>/reports/current/monthly/sb30mmdd.rpt
Requirements List (from RAM)	
5.6.1	The mention of “CDS” in the heading of any system balancing schedule or report will now read “SVC”.
5.6.2	Modify all manual procedures related to the program.
Program Function	Currently when the report is produced the heading reads “LO to “CDS” “ and “CDS to LO”
Narrative	When the report is created it will now read “LO to SVC” and “SVC to LO”

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sb040

PROGRAM	Sb040
PROGRAM DESCRIPTION	This program will create a report of variance existing between schedule A and schedule B reported as work in process. Total transactions that have been rejected by CDS, total unresolved transactions in rejected batches, LO recorded transactions not sent to CDS as of last day of the month and batches sent but not acknowledged by CDS as of the first business day of the next month will be reported.
Inputs	TABLE: cbd_batches TABLE: cbd_system_balance TABLE: editing_control
Outputs	FILE: /app/<dir>/reports/current/monthly/sb40mmyy.rpt
Requirements List (from RAM)	
5.6.1	The mention of “CDS” in the heading of any system balancing schedule or report will now read “SVC”.
5.6.2	Modify all manual procedures related to the program.
Program Function	Currently when the report is produced the heading reads “LO to “CDS” “ and “CDS to LO”
Narrative	When the report is created it will now read “LO to SVC” and “SVC to LO” •

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sb060

PROGRAM	Sb060
PROGRAM DESCRIPTION	This program will create a XE Weekly Financial Report for Origination.
Inputs	TABLE: cbs_batches TABLE: cbd_batch_detl TABLE: cdb_detl_errors TABLE: cdb_batch_status
Outputs	FILE: /app/<dir>/reports/current/weekly/sb60mmdd.rpt
Requirements List (from RAM)	
5.6.1	The mention of “CDS” in the heading of any system balancing schedule or report will now read “SVC”.
5.6.2	Modify all manual procedures related to the program.
Program Function	Currently when the report is produced the heading reads “LO to “CDS” “ and “CDS to LO”
Narrative	When the report is created it will now read “LO to SVC” and “SVC to LO” •

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sm050

PROGRAM	SM050
PROGRAM DESCRIPTION	This program will create a file containing DSD transactions when a new school is added or information for an existing school is changed. Two files will be created: one for the Servicing system and the other one for the LC system. Files will be created in the appropriate directories for the Servicing and LC systems.
Inputs	TABLE: Peps_school TABLE: Editing_control TABLE: TABLE: TABLE:
Outputs	FILE: /app/'env'/if/servicing/general_out/sm50mdd.txt (for Servicing) FILE: /app/'LC-env'/if/central_db/cd_work_in/sm50mdd.txt (for LC)
Requirements List (from RAM)	
4.7.1	Any time a new school is added or information for an existing school is changed, a complete set of information about that school will be transmitted to the LC and Servicing systems. (All fields on the DSD transaction will be populated.)
	The school information will be formatted as DSD.
	The file for the Servicing system will be created in the /app/'env'/if/servicing/general_out directory.
	The file for the LC system will be created in the /app/'LC-env'/if/central_db/cd_work_in/ directory.
4.7.3	School information will be disseminated using the latest DSD transaction format.
4.7.6	The LC and Servicing systems will receive information for all postsecondary schools regardless of whether or not they participate in the Direct Loan program.
Program Function	Any time a new school is added or information for an existing school is changed, a complete set of information about that school will be transmitted to the LC and Servicing systems. (All fields on the DSD transaction will be populated.)

Narrative	<ul style="list-style-type: none"> • Get all the records from peps_school table where dsd_send_flag='Y' and do the following: • Create a DSD transaction in the file /app/'env'/if/servicing/general_out/TBD as per the new layout of DSD transaction • Update the dsd_send_flag to "NULL"
Program Function	Copy the file containing DSD to a different directory for the LC system
Narrative	Copy the file /app/'env'/if/servicing/general_out/sm50mdd.txt to /app/'LC-env'/if/central_db/cd_work_in/sm50mdd.txt

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sm070

PROGRAM	SM070
PROGRAM DESCRIPTION	This program will read the Direct Loan school records on the one time file from CDS containing the DSD transactions against the school table on LOS database. It will print the exceptions on a report which will be investigated manually by the LOC.
Inputs	TABLE: peps_school FILE: /app/<dir>/if/servicing/works_in/ TBD
Outputs	FILE: /app/<env>/reports/current/yearly/sm70mdd.txt (for DSD)
Requirements List (from RAM)	The LOS will receive from CDS a file of DSD transactions for all schools on its system(Direct Loan and Non Direct Loan) and do the following: <ol style="list-style-type: none"> 1. Load the information for non Direct Loan schools into the school file. 2. Compare field by field, the data on the DSD transactions against the school file for all Direct Loan schools. 3. Prepare reports displaying the discrepancies as a result of the comparison for Direct Loan schools.
Program Function	Compare the records for Direct Loan schools on the file against the Direct Loan schools on peps_school table and print exception report when the records don't match field by field for a school.
Narrative	Create a report for the comparison of fields on DSD transaction . Please refer to the layouts of sm70mdd.txt.

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sv020.ec

PROGRAM	sv020.ec
PROGRAM DESCRIPTION	This program processes the LS (SSN change) transactions contained in the cdb_batch_detl table sent from CDS
Inputs	
Outputs	/app/'env'/if/central_db/cd_work_in/sv020.log
Requirements List (from RAM)	
1.7.2	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Program Function	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Narrative	write log file to the new directory: /app/'env'/if/servicing/work_in/ sv020.log

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sv020

Program ID	SV020
Program Description	SV020 processed the LS (ssn change) transactions contained in the cdb_batch_detl table sent from CDS. The following details the changes to be made to SV020.
Inputs	TABLE: cdb_batch_status TABLE: cdb_batch_detl TABLE: loan_master TABLE: person_ssn_hist TABLE: person TABLE: plus_loans TABLE: csr TABLE: school
Outputs	TABLE: cdb_batch_detl TABLE: person_ssn_hist TABLE: person TABLE: loan_origin_hist FILE: /app/prod/if/central_db/cd_work_in/sv020.log
Requirements List (from RAM)	
	Validate the SSN change
	Validate Participant Type field
Program Function	Validate the SSN change
Narrative	SSN must pass the following edits
	-Endorser does not become the borrower or student -Borrower does not become the student -New SSN does not equal old SSN If these edits are not passed the transaction will receive a PA007 error.

Program Function	Validate Participant Type field.
Narrative	Check the Participant Type field for a valid value
	Transactions with invalid values in the Participant Type field will receive a PA030 error.

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sv030.ec

Program ID	sv030.ec
Program Description	Compare LOS booked disbursement transactions with Servicing booked disbursement transactions received from CDS. Update the confirmation status in the disburse_activity table and write discrepancies to the log file.
Inputs	
Outputs	/app/'env'/if/cenral_db/cd_work_in/sv030_mmddyyyy.log
Requirements List (from RAM)	
1.7.2	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Program Function	All programs that create transactions to be sent to Servicing must be changed to use the new directories.
Narrative	write log file to the new directory: /app/'env'/if/servicing/work_in/ sv030_mmddyyyy.log

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Not a Program

PROGRAM	Not a program
PROGRAM DESCRIPTION	
Inputs	
Outputs	
Requirements List (from RAM)	1.7.1 Create new directory and its subdirectories to interface with the Servicing.
Program Function	Create new directory and its subdirectories for the Servicing to interface.
Narrative	<ul style="list-style-type: none"> • These directories should be similar to ones with CDS: • /app/env/if/servicing /app/env/if/servicing/batch_backup /app/env/if/servicing/financial_out /app/env/if/servicing/general_out /app/env/if/servicing/in /app/env/if/servicing/non_financial_out /app/env/if/servicing/work_in /app/env/if/servicing/work_out

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