Regression Testing Tool Oracle Financial Services Lending and Leasing Release 14.6.0.0.0 Part No. F12052-01 [December] [2018]



## Glossary

Term	Description		
OFSLL	Dracle Financial Services Lending and Leasing		
DLS	Oracle Daybreak Lending Suite		
BI	Business Intelligence Publisher		
XML	Extensible Mark-up Language		
UI	User Interface		
WSDL	Web services Description Language		
API	Application Programming Interface		
SQL	Structured Query Language		

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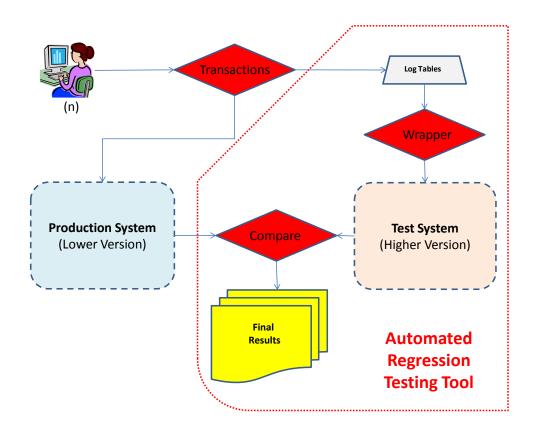
## 1. Regressions testing tool

The purpose of this document is to outline the high level requirements of the scope of the Testing tool for regression tests during DLS/OFSLL upgrades by performing a parallel testing between a lower version of DLS/OFSLL (production) and a higher one (test).



## 2. Scope

The testing tool will log certain operations done in the production system and replicate them in the Test system. This will enable parallel testing by comparison of the production and test systems, specifically with regards to the General Ledger transactions. The aim is not to replicate user keystrokes in the Production system but instead is to ensure that the eventual Posted values are captured in the Test system in the same way they were in the Production system.



This tool was designed to work for all DLS/OFSLL upgrades, independently of versions and customizations.

The Testing Tool covers the Origination (App Entry, Funding, Account Creation) and Customer Service, as detailed below:

### 2.1 Origination

The testing tool will perform the following: -

### App Entry:

- 1. Applications entered in Production on that day will be replicated in the Application tables of the Test system.
- 2. The application will pass through the Data Entry and Pre screen edits



- 3. The application will pull the Credit bureau as defined by the current system parameter configuration
- 4. The application will be placed in a New: Review Required status

### Funding:

 All applications funded in Production on that day will be replicated in the Test environment. The application in the Test environment will be funded using the same values that were used to fund the application in Production.

### **Assumptions/Restrictions:**

- Changes to the application values by the users in the Underwriting screen will not be replicated in the Test Environment.
- Intermediate steps between Application Entry and Funding viz. Fax/Letters on Status change, NADA pulls will not be replicated in the test system. This will require manual testing efforts. (The final values in the Production system will be used to fund the application)
- As part of the manual testing the user will not set the Application to Approved: Funded since it is possible that the values used by the user in the test system will be different from the values used in Production resulting indifferent GL entries.
- As part of the manual testing, the Fax numbers of all producers must be set to an internal fax number to avoid fax documents being set back to producers.

### 2.2 Customer Service

The testing tool will perform the following: -

Monetary Transactions posted on Accounts in Production will be replicated in Test for that particular day. This will allow comparison of the Transaction history on Accounts in the Test and Production instances. To replicate the monetary transactions, the Testing tool will perform the following

- 1. Payments applied to Accounts in Production will be replicated in Test
  - Payment batches and details will be created in the replicated in the test system (TXNS\_GROUP\_TEMP, TXNS\_TEMP table will be created)
- 2. Monetary transactions posted on Accounts in Production will be replicated in Test
  - Corresponding entries in the Customer Service > Maintenance tab will be available (BATCH\_MODE\_TXNS, BATCH\_MODE\_TXNS\_TEMP)
- 3. Assessment of Work Order expenses on an Account will be handled as a monetary transaction on an account.

### Assumptions

- Work Order actions will not be replicated. Work Order Expenses assessed on an account will be handled by the monetary transactions replication.
- A one-time refresh at the beginning of the testing will be done instead of a daily refresh. The only caveat would be that any errors, that affect data found during the testing, would remain in the database till the fix is received.
- The need for subsequent refreshes during the testing period will be discussed.

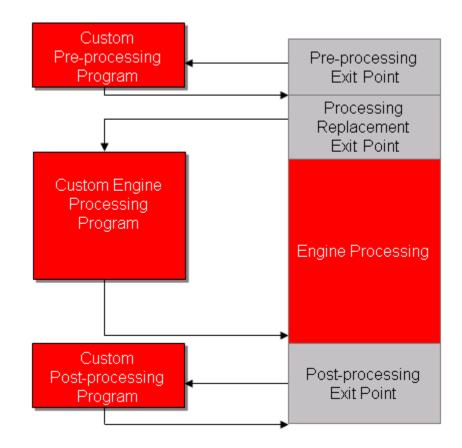


• Test environment Setup will be in sync with the setup in the Production environment. Setup changes to the production environment during the day will be replicated in the Test environment, before the Testing tool is run for that day.



## 3. Architecture / Technical Design

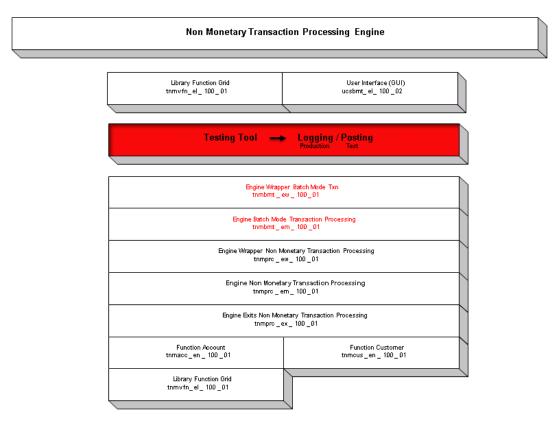
The Testing Tool was only possible due to OFSLL architecture, based on a wrapper- engine model. Like in OFSLL customizations, the Testing Tool takes advantage of the existing Exit Points to log and re-post the actions done by the users, allowing an automated parallel testing between the Production (lower version) and Test (higher version) environments of OFSLL.



(Exit Point Diagram)



The next two Diagrams show where in the Transaction Processing Engine the Testing Tool was introduced:





Monetary Transaction Processing Engine									
Batch Job Accrual txnacr_bj_100_01			Batch Job First Pmt deduc txnfpd_bj_100_01	tion Batch Job Rate	30_01 V		pper Advance	1	
Batch Account Activation txnact_bl_100_01	Batch Job Acc txncls_bj_1		Batch Mode Txn Post bxnbmt_bj_100_01	Batch Job Month To Dat txnmtd_bj_100_01	te Batch Job Term Progres txntip_bj_10	vination in ts V 00_01 tx	happer Payment Wra hpmt_ew_100_01 txnpn	pper Payment nt_ew_100_02	
Batch Job Anniversary txnann_bj_100_01	Batch Job Paym brigimt_bj_		Batch Job Schedule for Chgoff binsch_bj_100_01	Batch Job Promotion txnprm_bj_100_01	Batch Job txnytd_bj_10	YTD 00_01	nfpr_ew_100_01 txmfp	pper Payment r_ew_100_03 Engine Batch	
Batch Job First Payment Refund bmfpr_bl_111_01	Batch Job Adva tonadv_bj_		Batch Job Late Charge txnttc_bj_100_01	Batch Job Promotion Can txnprm_bj_100_03	icel		Wrapper Batch txnbmt_ew_100_01 bnbmt_em_100_01		
			Testing T	ool → Lo Pro	<b>gging / Postin</b> oduction Test	ng			
				Engine Wrapper Monetar txnprc_ev		)			
Processing	gine Monetary Txn Processing nprc_em_112_01	Engine Monetary Processing txnprc_em_121	Processing	Engine Payment Processing bripmt_em_100_02	Engine Payment Processing txnpmt_em_100_03	Engine Payment Processing bxnpmt_em_100_04	Engine First Pmt Refund Processing bunfpr_em_111_01		nce Processing m_100_01
ba	nprc_ex_111_01, bxnx		onetary Transaction Processi noc_ex_112,01,txnxooc_ex_12		}		Performing Transactions .ex_111_01		, 
Function Accrual stop	Function Account Close xncls_en_100_01	Function Cree Bureau txncrb_en_100	Refund	Function Dlq Counter txndct_en_100_01	Function Delinquency txndlq_en_100_01	Function Error Processing txnerr_en_100_01	Function Error Processing banerr_en_100_02	Function Expense Processing binexp_en_100_01	Function Payable txnfap_en_100_01
	function Fee Calc onfec_en_100_01	Function FTI txnftp_en_100		Function GL txngla_en_100_01	Function Interest txnint_en_100_01	Function Interest (Calculation) txninc_en_100_01	Function YTD txnytd_en_100_01	Function MTD txnmtd_en_100_01	Function Insert Txn txnitx_en_100_01
Function Advance (I	Function Advance Before and After) madv_en_11n_02	Function Annive txnann_en_1nn		Create Related Txns briort_en_1nn_01	Create Related Txns (Before and After) txncrt_en_1nn_02	Function Due Date bxnddt_en_1nn_01	Function Due Date (Before and After) txndet_en_1nn_02	Function Extension brnext_en_1nn_01	Function Extension (Before and After) txnext_en_1nn_02
bxnins_en_11n_01 b	unction insurance mins_en_11n_03	Function Matu txnmat_en_1nn		Function Payoff binpmt_en_1nn_01	Function Payment (Before and After) txnpmt_en_1nn_02	Function Promotion txnprm_en_11n_01	Function Promotion (Before/ After) bmprm_en_11n_02	Function Rate Change txnrat_en_11n_01	Function Rate Change (Before and After) borrat_en_11n_02
Huncoon Reschedule	nction Reschedule Before and After) mrsc_en_1nn_02	Function Securitit txnsec_en_11n		Function Status Change (Before and After) txnsta en 1nn 02	Function Statement txnstm_en_1nn_01	Update Account binupd_en_1nn_01	FunctionValidate Other txnvot_en_1nn_01	Function Reschedule banrsc_en_111_04	Function Reschedule (PC2SI) txnrsc_en_111_05
	Function CTD enctd_en_112_01	Function Insura txnist_en_112		Function Lease Rov txnlsr_en_121_01	Function Rent txnmt_en_121_01	Function Sale of Asset binsoa_en_121_01	Function Tax txntax_en_121_01	Function Terminate txntrm_en_121_01	Function Receivable txnrcv_en_100_01
(Escrow) txnddt_en_111_03 bo	Inction Statements (Escrow) Instm_en_111_03	Function Paym (Escrow) txnpmt_en_111	(Escrow) _03 binsta_en_111_03	Function Reschedule (Escrow) txnrsc_en_111_03	Function Reschedule (Escrow) txnrsc_en_111_05	Function Escrow Transactions txnesc_en_111_01	Function Non- Peforming Transactions txmpf en 111 01 Function Billing	Function Non- Performing (Before & After) brinpf en 111 02 Function Rate	Function Dealer Loss Reserve txnlrs_en_111_01
Processing Pr	unction insurance rocessing (Before and After) xnins_en_111_02	Function Insura Processing (Ref binins_en_111	fund) (Processing	e Function Rate Change Processing (Before and After) binrat_en_111_02	Function Billing Processing (Stage Funding Draw Period) txndrw_en_111_01	Function Stage Funding Draw Period (Before & After) bondrw_en_111_01	Punction Billing Parameters (Change Parameters) txnblp_en_112_01	Processing (Soldier & Sellor Act) briscr_en_11n_01	Function Rate Processing (SCRA) (Before & After) txnscr_en_11n_02

The Testing Tool is divided in 3 main processes:

Logging: Transactions done by users in Production environment CMN\_TEST\_TOOL\_LOGGING (Y/N)

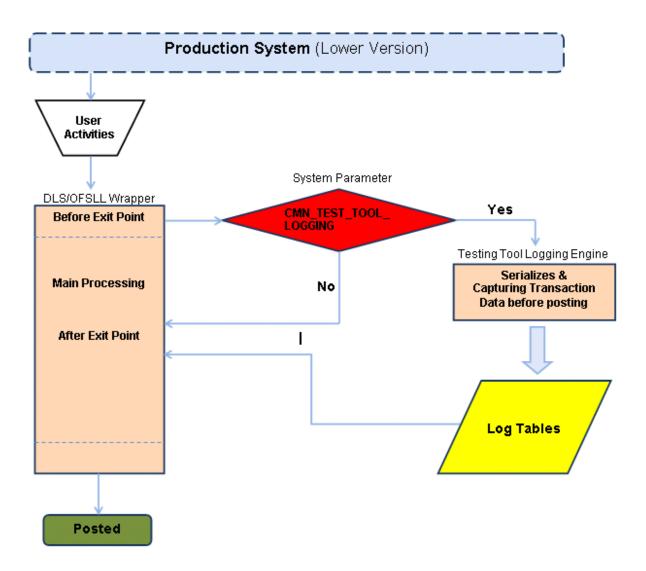
> Posting: done sequentially and automatically by the Testing Tool in Test environment

**Reporting:** Comparison between Production and Test Environments

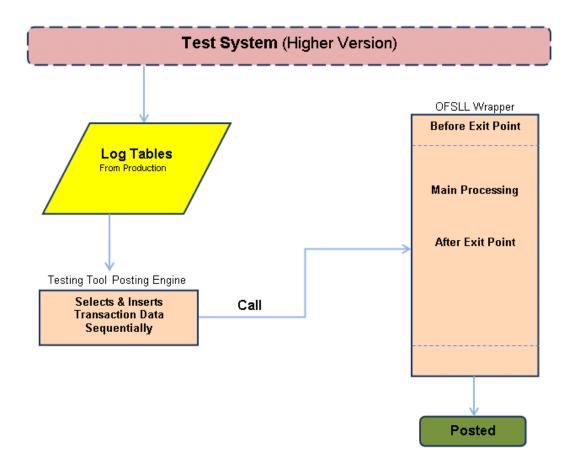


### I. Logging: Transactions done by users in Production environment

The logging process in Production environment can be turned on/off by setting the System Parameter CMN\_TEST\_TOOL\_LOGGING. When its value is "N" system will behave normally. When its value is "Y", the system will log all the transactions done by the users.

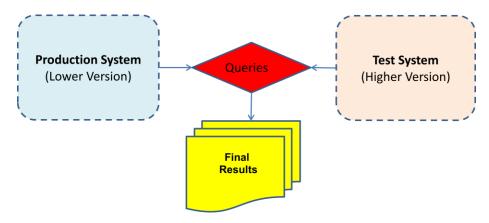






Posting: Done sequentially and automatically by the Testing Tool in Test environment





### **Reporting: Comparison between Production and Test Environments**



## 4. Steps to Clone Base OFSLL Environment

- 1. Copy x\* packages and so from production to test after patch up of test schema. (some of these objects in production are newer versions than ones in upgrade patches.)
- 2. Perform export from production schema.
- 3. Confirm that CMN\_SERVER\_HOME path is identical between test and production servers.
- 4. Run 'alter table' and 'alter index' scripts against production schema.
- 5. Run 'compare schema' scripts between the production and test schemas. Reconcile differences.
- 6. Perform export (no data) from test (upgraded) schema.
- 7. Perform import (ignore=yes) on production schema from step five's export. Confirm that packages, views, and types are correct versions.
- 8. Perform export from test (upgraded) schema of 'setup' tables (LESS producers tables!).
- 9. Copy schema specific system parameters values from production schema
- 10. Truncate 'setup' tables on production schema.
- 11. Perform import on production schema from step seven's export.
- 12. Overlay system parameters value from step 8
- 13. Create backup copies of folders in the CMN\_SERVER\_HOME tree on production app server.
- Copy CMN\_SERVER\_HOME tree from test to production app servers. Consider results of step two.
- 15. Copy any other patch objects (.so's, etc.) into production environment. (If step 1 is done, we can copy without risk of overwriting newer versions in prod)
- Restore any X\* packages necessary. (if step 1 is done, we can copy without risk of overwriting newer versions in prod).



## 5. Automated Testing Procedure

Following is the 'suggested' sequence of steps that would need to be performed on a daily basis as part of the 'Automated Testing'

### Day 1

Test Database to be refreshed with Production values \*

1. Truncate the Log tables in Production

2. Logging is Turned On in Production after last job has completed

Cut of time for manual transactions/user activities in the Production Environment. Logging by testing tool will be turned off.

1. Take a Production database snapshot (S1) of the required tables

2. Ensure sequences on test match sequences on Production (for applications and accounts)

3. Dat files and log tables are moved to the Test database

4. Testing tool is Run on Test instance (Ensure previous files are removed)

Comparison/Validation scripts are run against S1 and the Test database. Report (R1) is generated. (This gives us the comparison before the jobs are run)

A copy of input file in Production (lockbox) should be available in Test

Batch jobs are run (Batch job setup is identical to production) on both Test & Production

Take a Production database snapshot (S2) of the required tables

Comparison Scripts are run against S2 and the Test database. Report (R2) is generated. (This gives us the comparison before the jobs are run)

### Day 2

Validates R1 & R2 and reports discrepancies to OFSLL

Investigate the discrepancies. Some may be reconciled and some may require a fix

Manual testing proceeds in the interim

Next run is planned



Test Database to be refreshed with Production values.

\* Refresh Test database

**Example:** To run the testing tool in the Test environment on 4/23, a snapshot of the Production database AFTER the batch jobs have completed on the morning of 4/23 and before any other user activity for 4/23 begins needs to be taken. This snapshot will be used to refresh the test database for the testing tool to be run on the evening of 4/23.



## 6. Steps to Run

	On production environment	
1	Turn off Logging (after SET-LBT3)	
2	Take snapshot of prod before end of day batch jobs have run	
3	Remove old .dat files	
4	Run SET-TST1->GET APPLICATION DATA to create the .dat files	
5	Move .dat files to test system	
6	Move log tables to test system (execute steps 2-6 on test environment as listed below)	
7	Run batch jobs	
8	Take snapshot of prod after end of day batch jobs have run	

	On Test environment			
1	Refresh from backup of Production data.			
2	un after_refresh_before_import.sql – This steps needs to be executed ONLY for a esh export-import.			
3	Run all_refreshes.sql			
4	Run before_import_log.sql			
5	Fetch the log tables			
6	Copy the .dat files from the production environment.			
7	Run after_import_log.sql			

Tool execution (on Test)				
1 Reset the sequences (reset_sequences_origination_log.sql)				
2 Run Jobs under SET-TST1				



	APPLICATION DATA LOAD
	FUNDED DATA LOAD
	GENERATE ACCOUNTS FOR TESTING TOOL
3	Run SET-TST2
4	Run Testing Tool reports - save results (Test before EOD)
5	Turn the Scheduler on - Run the required batch jobs
6	Run Testing Tool reports - save results (Test after EOD)
7	Compare the 3 reports extracted during the process



## 7. Validations and Checks

в	efore txns posting
	Set logging parameter to 'N'
	Turn scheduler off on Test system
	Ensure that setup tables are not truncated before refresh (only in case of a new refresh).
	Ensure that jobs, job_sets, job_threads and job_buckets are copied over from Prod onto test (only in the case of new refresh).
	Make sure that the batch jobs are setup the same in Prod and Test.
	Ensure sequences are in sync with Production
	Bump up sequences - recreate sequences
	Ensure that the Test specific setup scripts are run for 1) all seed data 2) DML scripts to create data in the new tables
	Check GL post date
	Check log tables have just one day's transactions
	Query by txn_tcd_code, check numbers match on Prod and Test
	Drop index TXNT_LOG_UDX
	Make sure that the batch jobs have no sequence numbers overlapping - the scheduler might not start because of this.
	Run all the DML scripts - for seed data and others
	Check for database locks on both test systems
	Check run_dt_nxt on all batch jobs - should be updated correctly



## 8. Comparing Results

Once the tool run, we will be able to start comparing the results. Below is an example of a high level results extracted from a Production and a Test environment, where the tool replicated all the user actions executed during one day.

PRODUCTION		TEST	
TXN_TCD_CO DE	SUM(TXN_AM T)	TXN_TCD_CO DE	SUM(TXN_AM T)
ACCRUAL_ST OP	0	ACCRUAL_ST OP	0
ACC_MAINT_ MONETARY_ CBT	-1	ACC_MAINT_ MONETARY_ CBT	-1
ACTIVE	0	ACTIVE	0
ADV_RECOU RSE_CHGOFF _CBT	5.25	CHGOFF	0
ADV_WAIVE	7	CREDIT_REF UND_REV	6312.85
CHGOFF	0	DDT	29034.13
CREDIT_REF UND	2875.01	DDT_REV	12494.97
CREDIT_REF UND_REV	6762.65	ERPO	15262
DDT	403310.84	ERPO_REV	855
DDT_REV	12494.97	ERPO_WAIVE	90
ERPO	18762	ERPO_WAIVE _REV	5
ERPO_REV	4355	ESVC	175
ERPO_WAIVE	108.42	ESVC_REV	75
ERPO_WAIVE _REV	5	EXTENSION	606.9



ESVC	175	EXTENSION_ REV	0
ESVC_REV	75	FEXT	2093.28
ESVC_WAIVE	0.2	FEXT_REV	68.18
EXTENSION	606.9	FIN_1	2521.19
EXTENSION_ REV	0	FIN_2	2357.28
FEXT	2093.28	FIN_3	10605
FEXT_REV	68.18	FLC	263.63
FIN_1	2521.19	FLC_REV	195.15
FIN_2	2357.28	FLC_WAIVE	15
FIN_3	10210	FNSF	0
FLC	8071.77	FUN_1	658203.33
FLC_REV	209.44	FUN_2	14259.2
FLC_WAIVE	15	FUN_3	85
FNSF	0	FUN_4	305.55
FOTH1_WAIV E	5	INT	88904.16
FPHP	1659	INT_ESTIMAT ED	128900.35
FUN_1	630790.18	INT_REBATE	8654.78
FUN_2	13648.2	INT_REV	3038.93
FUN_3	85	LNR	788796.75
FUN_4	284.55	NP_EXCESS	2388.78

Based on the results above, we are able to investigate further the reason for each discrepancy, if any.

## 9. Testing Tool Exceptions

Following is the list of exceptions/limitations of the testing tool

- 1. Direct Reversal of an Indirect transaction
- 2. Multiple Payment Hold Assessments/Reversals
- 3. Payment not allocated to Phone Pay Fee

### Direct Reversal of an 'Indirect' transaction.

An Indirect transaction is one that is created by a different transaction. For example, FNSF is an indirect transaction created by the PAYMENT\_VOID transaction. The tool replicates the PAYMENT\_VOID transaction that in turn creates the FNSF. Along the same lines, reversal of the PAYMENT\_VOID transaction will result in the reversal of the FNSF transaction (This is normal Ofsll processing) and will be replicated by the tool.

However when the FNSF transaction is reversed directly, by using the Reverse button on the Transactions screen, the tool is unable to replicate that.

Another example is the PAYMENT\_NONCASH created by modifying the PAYMENT\_ERROR transaction on the Payment Maintenance screen. The non-cash transaction is an indirect transaction and directly reversing it or further modifying it will not get replicated in the Test environment. To summarize direct reversal/modification of the 'child' transaction is not replicated.

Note, the above restriction applies only for the same dataset. If the database is refreshed after the creation of the 'child' transaction and before its direct reversal, the tool replicates the reversal.

### 1. Multiple Payment Hold Assessment/Reversals

Since the tool is not recording the call activities, multiple payment holds applied or removed on the same day is NOT replicated. To paraphrase, the existence/absence of the Payment Hold condition will match that in production, however intermediate changes will not be reflected.

### Examples

### 9.1 A) Scenario 1

### Production

- Pmt Hold condition exists on an Account
- Payment applied, payment goes into PAYMENT\_ERROR
- Pmt Hold removed on the same day
- Payment reapplied from Payment Maintenance > Suspense screen. Payment successfully applied to the account as a PAYMENT\_NONCASH

#### Test

- Removal of Pmt hold is replicated on Test
- Payment will be applied successfully to the Account as a PAYMENT.
- No PAYMENT\_ERROR is created



# 9.2 B) Scenario 2 – This scenario results in an exception due to mismatch of balances

### Production

- Pmt Hold condition exists on an Account
- Payment applied, payment goes into PAYMENT\_ERROR
- Pmt Hold removed on the same day
- Payment reapplied from Payment Maintenance > Suspense screen. Payment successfully applied to the account as a PAYMENT\_NONCASH
- Payment Hold condition reapplied

### Test

- Since the final state of the account is a PMT HOLD condition no change will be made to the account in test
- Consequently the payment will go into a PAYMENT\_ERROR and will not get applied to the account

In this scenario the account balances DO NOT match.

### **Phone Pay Fee**

Currently in Production One time Phone Pays created during the day are picked up by the SET-CBT-ACH0 > ACCOUNT ACH PROCESSING JOB in the middle of the day (3:15 pm). This job creates the Phone Pay fee (FPHP) (The payment batch is created by the same job). The payments, which post later in the day, get allocated to the FPHP.

On the test environment, the tool posts transactions including Phone pay payments for the entire day. The SET-CBT-ACH0 > ACCOUNT ACH PROCESSING JOB runs AFTER the tool posting is complete. When the payment hits the account, the FPHP is not present on the account. This results in: -

\$7 - additional Principal (ADV) being paid

\$.01 – less interest being accrued since additional principal has been paid



Module	Function	SI. No	Test cases
Origination			
	App Entry		
		1	Direct loan
		2	Indirect loan
		3	With CRB pull
		4	Without CRB pull
		5	Application in different stages: New Review Required, Auto Approved,
			Approved Blank, Approved Verifying, Approved Verified
	Funding		
		6	Loan with Insurances
		7	Loan without Insurances
		8	Loan with Dealer's commission
		9	PreCompute loan
		10	Simple interest loan
Customer Service			
	Payments		
		11	Back dated payment posting across billing for Simple Interest Loan.
		12	Back dated payment reversal across billing for Simple Interest Loan Payment reversal from Payment Maintenance screen.
		13	Back dated payment reversal across billing for Simple Interest Loan Already existing payment. Payment reversal from Payment Maintenance screen.

## 10. Testing Tool Test Cases



Module	Function	SI. No	Test cases
		14	Back dated payment posting across billing for PreCompute Loan.
		15	Back dated payment reversal across billing for PreCompute Loan Payment reversal from Payment Maintenance screen.
		16	Back dated payment reversal across billing for PreCompute Loan Already existing payment. Payment reversal from Payment Maintenance screen.
		17	Overpayment to an account within tolerance.
		18	Overpayment to an account outside tolerance.
		19	Erroneous Payment Batch posting.
		20	ACH Payment Batch posting.
		21	Post backdated payment across billing and NSF the same. NSF from Payment Maintenance screen.
		22	NSF already existing payment. NSF from Payment Maintenance screen.
		23	Create a Payment Batch and Hold the same.
		24	Erroneous Payment Batch posting. Correct the same erroneous transaction and repost successfully.
			Already existing erroneous Payment Batch posting. Correct the same erroneous transaction: Add one row Update one row for date as well as for amount and repost successfully.
			Already existing Open/Hold payment batch: Add one row Remove one row Update one row for date as well as for amount and repost successfully.
		25	Create open Payment Batch and posting the same by running SET-LBT: PAYMENT POSTING
	Payments		

Module	Function	SI. No	Test cases
	Combinations		
		26	Create sequence of Payment Batch & post the same, having mix of valid and erroneous batches. Few erroneous payment batches not corrected and reposted and few corrected and reposted.
		27	Post payments thru lock box with the ach file having: - non-existing a/c no - closed a/c - a/c having payment hold condition - a/c having non-accrual condition, and txn date for the payment is before non-accrual Correct the erroneous payment batches ( suspense payments) and repost it. Reverse the payments: - posted correctly first time - corrected and reposted
		28	Post the already existing hold payment batch. Reverse the payment.
		29	Create an erroneous payment batch. Correct the payment batch. Put it on hold. Post the payment batch. Reverse the payment
		30	Create a payment batch with: - more than one payments - correct and incorrect payments Post the payment batch. Reverse payments: - one which was valid initially - one which was invalid initially
		31	Crete payment batches with: - more than one payments - correct and incorrect payment batches Run the SET-LBT batch job. Reverse the payments: - one which was valid initially - one which was invalid initially
	Transactions		
		32	PreCompute loan put into non-performing.
		33	PreCompute loan to Simple Interest conversion.



Module	Function	SI. No	Test cases
		34	Simple Interest loan put into non-performing
		35	Work order Service Expense assessment.
		36	Post Extension.
		37	Post Due Date Change.
		38	Charge off an account.
		39	Pay off an account.
		40	Insurance cancellation on a PreCompute loan a/c.
		41	Insurance cancellation on a Simple Interest loan a/c.
		42	Waive Late Charge on an a/c.
		43	Waive Advance on an a/c.
		44	Waive Interest on an a/c.
		45	Reduce Interest Rebate for PreCompute loan a/c.
		46	A/c Monetary maintenance on an a/c to change the advance, rate, payment amount and maturity dates.
		47	Account Due Paid Amount Maintenance posted on an a/c to update the amount paid in due buckets 1 through 4
		48	Post any of the non-monetary transaction.
		49	Reverse any of the already existing monetary transaction.
		50	Post and reverse any of the monetary transaction.
		51	Reverse the charge off transaction for an a/c already charged off.
		52	Post and reverse the charge off transaction.
		53	Reverse the paid off transaction for an a/c already paid off.
		54	Post and reverse the paid off transaction.
		55	Post a monetary erroneous transaction from maintenance screen.



Module	Function	SI. No	Test cases
		56	Post a non-monetary erroneous transaction from maintenance screen.
		57	Post an erroneous monetary transaction for which we get the error result in the results pane, correct the same and repost successfully.
		58	Post an erroneous monetary transaction for which we get the popup error message, correct the same and repost successfully.
		59	Void any monetary transaction.
		60	Void any non-monetary transaction.
	Transactions Combinations		
		61	Put a PreCompute loan into non-performing. Convert the same to Simple Interest. Put the converted loan into non-performing.
		62	Sequence of monetary transactions from maintenance screen, having mix of: - erroneous monetary transaction, for which we get the error result in the results pane - successful non-monetary transactions - erroneous monetary transaction, for which we get the error result in the results pane, corrected and reposted successfully - erroneous transactions for which we get the popup error message - erroneous transactions for which we get the popup error message, corrected and reposted successfully - void monetary transactions - successful monetary transactions
	Full Run	63	<ul> <li>Fund a new backdated loan from scratch.</li> <li>Post payments.</li> <li>Post monetary transactions.</li> <li>Post non-monetary transactions.</li> </ul>



## **11. For Next Releases**

Though the Testing Tool is totally dynamic and automates the tests by logging all actions executed on a Production environment, then replicating them in a Test environment, which will have a higher version of OFSLL. This tool still requires technical people, with technical knowledge of OFSLL processes and architecture to be installed and run. For future releases, we can create an installation package and a user friendly front end in order to users to be able to do all the tests independently. Also, some of the current exceptions and limitations could be worked on in order to incorporate to the tool's functionalities.





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