

concluded that user would try to avoid mistakes.

Step-3: Execute Overseas Bulk File Import:

By executing this function, the system loads the files (processed) in system database showing summary as follows.

- Total Number of File Loaded in System Database
- Total Number of Transactions in file
- Total Amount of all transactions in files.
- Duration of loading the files to system

Following is the snap shot showing transactions in exchange company file.

Transaction Date	Financial Institution	File Source	Total Records	Period Amt	Deemed to Amt	CMC Ord
20/04/2015	ABLE	F-24-04-2015-1552	43	2,413,194.00	2,413,194.00	43
		File Total:	43	2,413,194.00		
		Print Total:	43	2,413,194.00		

Mode Description	Total Records	Total Amount
AC OWN BANK TRANSFER	2	100,770.00
BT PBS BANK TRANSFER	2	192,500.00
IS ISAT	2	137,630.00
OC OVER THE COUNTER	39	8,380,904.00
PAK Total	41	9,259,294.00
Print Total:	43	2,413,194.00

If any error is found while loading the file, the complete file records are populated in error rectification panel, from where user can rectify error and again process the transaction.

Initially when system was under test, there were various issues identified related to accuracy of results after file loading, they were highlighted to vendor and got resolved.

Functional Testing and UAT:

During Functional Testing, I verified that

Element 4

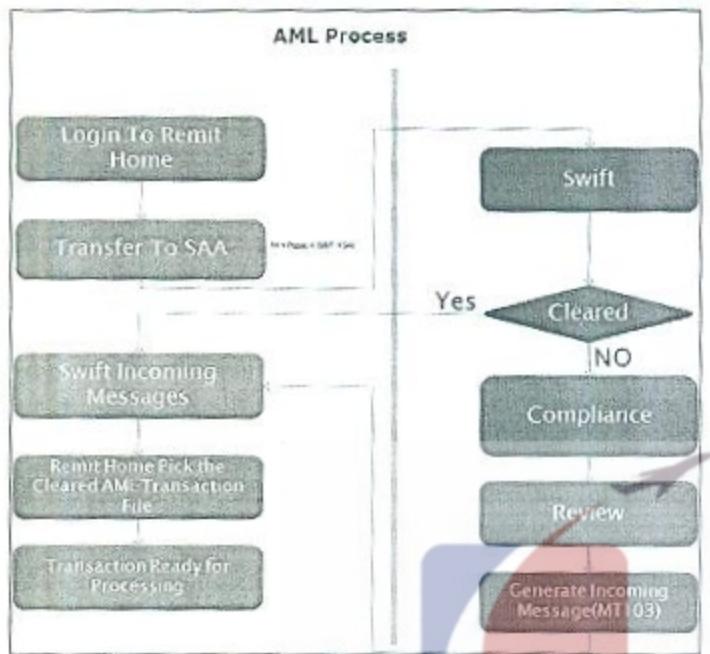
- Multiple Combination of Transaction files are loaded in system database with correct values (Total Files, Total Transactions and Total Amount)
- System loads the files in appropriate time to verify the performance of application.
- If already loaded file is again attempt to load, then system cancel those transactions due to duplication of same transactions.
- System display correct count of total amount of all transactions and it should match with the detailed readable files provided by the exchange company. Here my mathematical skills were utilized to calculate the correct and cancelled transactions.

- System produce proper error, if an exchange company file is loaded in incorrect Remitting Institute and provides proper way to user to rectify the error.

While UAT, User got satisfied with this system function verifying all above points.

Step-4: AML Process (Anti Money Laundering):

In order to ensure that files do not have suspicious transactions, Bank had already acquired third party software called mantas from oracle. Following is the process flow of AML system.



When user executes function called 'Transfer to SAA' by navigating to this pane, the system generated Swift Files in a specific folder named 'Swiftoutgoing' defined in system parameter.

After that, Each transaction in swift file was process by Mantas.

If the transactions found cleared (non-suspicious), they were directly available in 'Swiftincoming' folder defined in system parameter for further process.

If the transactions found un-cleared (suspicious), they were further reviewed by compliance division and after confirmation, they were then available for further process.

After this, user executes system function named 'Swift Incoming Messages', and the system makes available the cleared (non-suspicious) transactions for further processing of transactions.

Functional Testing and UAT:

At the time, when system was initially in implementation phase, I verified the AML process at live environment working with Compliance Division team. In AML Process, the main concern of business users was the integration with Mantas AML software and the access rights of shared folders i.e. Swiftincoming and Swiftoutgoing. There was no complete environment of AML process in UAT, there for I kept this process to be verify at live.

Element 4

In this step I verified that

- Swift files are generated correctly in shared folders i.e. **Swiftoutgoing**
- AML software is able to read those files and process the AML mechanism.
- After AML process is completed, the swift files are again placed in shared folder **Swiftincoming**

An another main concerns of the business users were, if any file mistakenly deleted in shared folders, it would not re-generate by the system again. For the security of those folders, I removed all the rights from business users at live environment and created two system users and provide appropriate rights to both users, in which one user was given rights to read swift files from **Swiftincoming** folder and another user was given rights (write) to generate swift cleared files in **Swiftoutgoing** folder.

Example of Sample Swift Files in SwiftOutgoing and SwiftIncoming Folders

The screenshot shows two separate windows of a Windows File Explorer. The top window is titled 'SwiftOutgoing' and contains a single file named 'SAA_HRD0804201593725.103' which is a 100 KB 103 file modified on 4/8/2015 at 9:37 AM. The bottom window is titled 'SwiftIncoming' and contains a single file named '15040802050494.READ' which is a 79 KB READ file modified on 4/8/2015 at 10:34 AM. Both windows show standard file navigation icons and a sidebar with Favorites (Downloads, Desktop, Recent places).

Favorites	Name	Date modified	Type	Size
Downloads	SAA_HRD0804201593725.103	4/8/2015 9:37 AM	103 file	100 KB

Favorites	Name	Date modified	Type	Size
Downloads	15040802050494.READ	4/8/2015 10:34 AM	READ file	79 KB

Step-5: After SAC (Swift Alliance Clearance):

After complete AML process, all the transactions (AC, COC, Other Bank) were ready for financial transaction processing. When user processed 'After SAC' function, the system connected to Bank Al Habib OBS Server (Online Banking System) and Phoenix Server.

The function of OBS server was to connect the Home Remittance Application with Al Habib Core Banking Branch Network and fetch the title of Beneficiary Accounts from respective branches for Account to Credit (AC) transactions.

The function of Phoenix Server was to connect to other bank network in real time and fetch the titles of accounts for those transactions that belong to other bank, given that other bank parameters are defined in Home Remittance System.

At 'After SAC' stage, I executed integration testing of Home Remittance Application with Bank Core Banking System (AHBS) and phoenix server to verify that account titles of AC transactions customers from branch network and account title of BT transactions from beneficiary bank were fetching successfully. I verified that, If any condition is applied to customer like Dormant Account, Deceased etc, the communication log displayed proper response code and proper user friendly message on application interface. In case of other bank transaction, I tested GDCI APIs.dll (API) provided by the intermediary company (i.e. TPS) to test the connectivity with Phoenix Server. During testing, there were various issues I

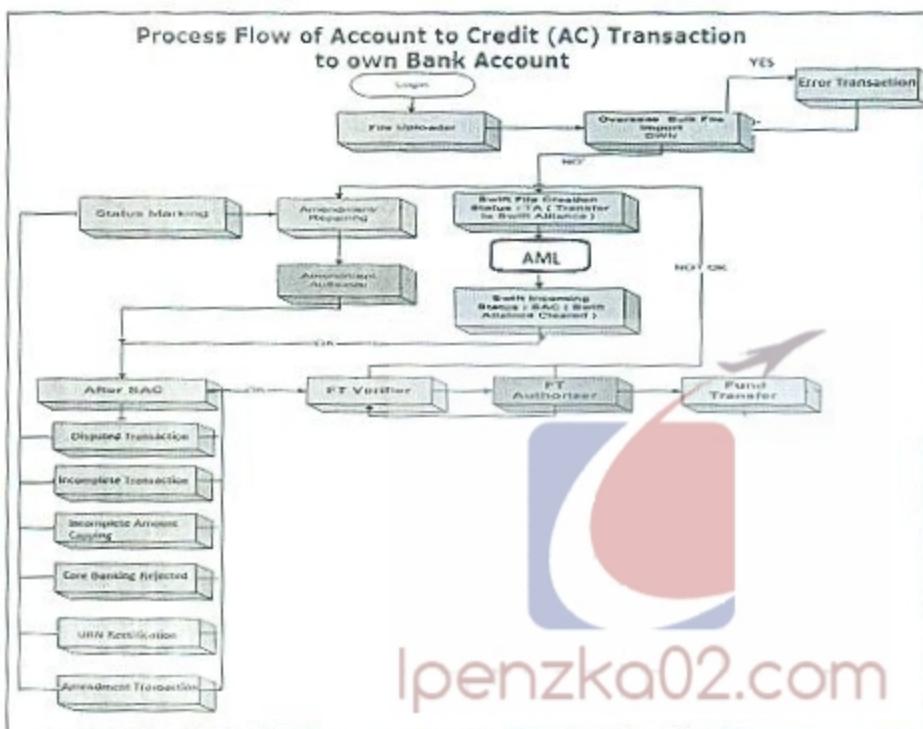
Element 4

found related to transaction execution performance, duplication of transactions, incomplete transactions that were resolved after coordination with intermediary company. In which I had to analyse the system logs and identify the root cause of failure and share the status with intermediary and Home Remittance vendor. In this testing, I applied all my knowledge related to Root cause analysis to trouble shoot the problem, used my technical skills and knowledge while working with application, I used my integration testing skills and communication skills to communicate and resolve the matters.

Testing against Different Mode of Transactions:

1) Account to Credit Transactions (AC):

The below diagram shows the process flow of AC transaction. I have developed understanding of complete flow of transactions with all possible scenarios and validated the results.



Integration Testing and UAT:

Here I verified that If the title of the account do not found, then system automatically mark the transaction status as Disputed Transaction, Incomplete Transaction, Incomplete Amount Capping, URN Rectification or throw them in Amendment/Repairing Panel. For which separate processes are available to carry forward.

I also verified that If title of the Account found successful the transaction moved to FT verification panel from where business user review the transaction with internally developed standards. If the transaction found according to the standard, user mark the transaction as verified and make the transaction ready for authorization. Here Maker and Checker concept is very important in processing banking transaction. This concept allows business users to follow four-eye principal and minimize the risk of processing unwanted transactions. In this process, verifier verifies the transaction and authorizer again verify them and finally process those transactions for Fund Transfer Activity.

Element 4

After all above positive cases successfully executed, I also verified that if the transaction do not found according to the internally developed standard, user may mark the transaction intentionally with options like Core Banking Rejected or Amend Transaction.

If transaction marked amend, then transaction found in Amendment/Repairing Panel, where user can again provide proper account number reviewing the history of the same beneficiary account title and process the transaction and make it available for Amend Authorization. In this case, transaction again passes through AML Process, After SAC Process and finally moved to FT Authorization panel for final approval and get ready for Fund Transfer activity.

Following were the specific cases of integration testing, I verified and conducted UAT with business users to verify these points

- All above system functions are working correctly (Amend, Amend Authorization, Reject, Process functions in each panel)
- After SAC process is efficiently able to connect to OBS Server and fetch the title of own bank accounts of beneficiary for account to credit transactions (AC).
- After SAC, process is efficiently able to connect to phoenix and fetch the title of beneficiary from other bank for other bank transactions (BT).
- System is able to throw the transaction in Amend Panel if title not found. After rectification of the transaction from this panel, the After SAC process executed again to fetch the customer title and transaction moved to FT Authorize panel directly.
- System is able to push the transaction to FT Verification panel if title found.
- System is able to push the transaction to FT Authorize panel after verification.

There were various critical issues identified while executing integration testing that were related to in-house integration service named OBS and third party system to communicate with OBS. There were also various issues in GDCI APPI to communicate with phoenix sever used with Home Remittance Application to perform other bank (BT) transaction. I highlighted those issues and worked with in- house software engineer to reproduce those issues so that debugging of issues could occur, I worked with TPS team to produce Phoenix Connectivity issues. After this, I executed UAT with business users verifying all above points successfully.

Fund Transfer:

When transactions passed through from all above steps successfully, the transaction get ready for Final Fund transfer activity. From this panel, user process the Fund transfer making connection with OBS server and process the transaction. It mean amount is successfully credited to beneficiary account passing through bank branch network.

Integration Testing and UAT:

Element 4

In this activity I verified that

- System is able to connect to OBS Server efficiently
- Performed thorough Integration testing to verify that System is able to execute fund transaction successfully

- The Core Banking system display correct entries of Debit and Credit of financial transactions, showing proper narrations in transaction entries.

There were various combination of different branches across the branch network, that I had to carefully verify with different system level flags.

Sample Snap Shot of Communication Log between third party and Core Banking System.

12/02/2014 22:58:52 PM - Passenger = 1294 SendFromPost : MMSS0001	J91432222222A1294	PC0000000	0002211001	34699512250434411	0005
12/02/2014 22:58:55 PM - Passenger = 1294 Recruitment : MMSS0001	101617012210660432	UR1200004	0002211001	374230170041222	0005

Note: Attached is the email of Integration Testing Status

Transaction Financial Entries:

I verified all the financial entries with proper narrations AHBS application interface as follows.

All the exchange company accounts were maintained by Bank Principal office. If beneficiary account exists in principal office, following financial entry were passed.

Bank Branch	Debit Entry	Credit Entry
Branch-1	Debit Exchange Company Account	
Branch-1		Credit Beneficiary Account

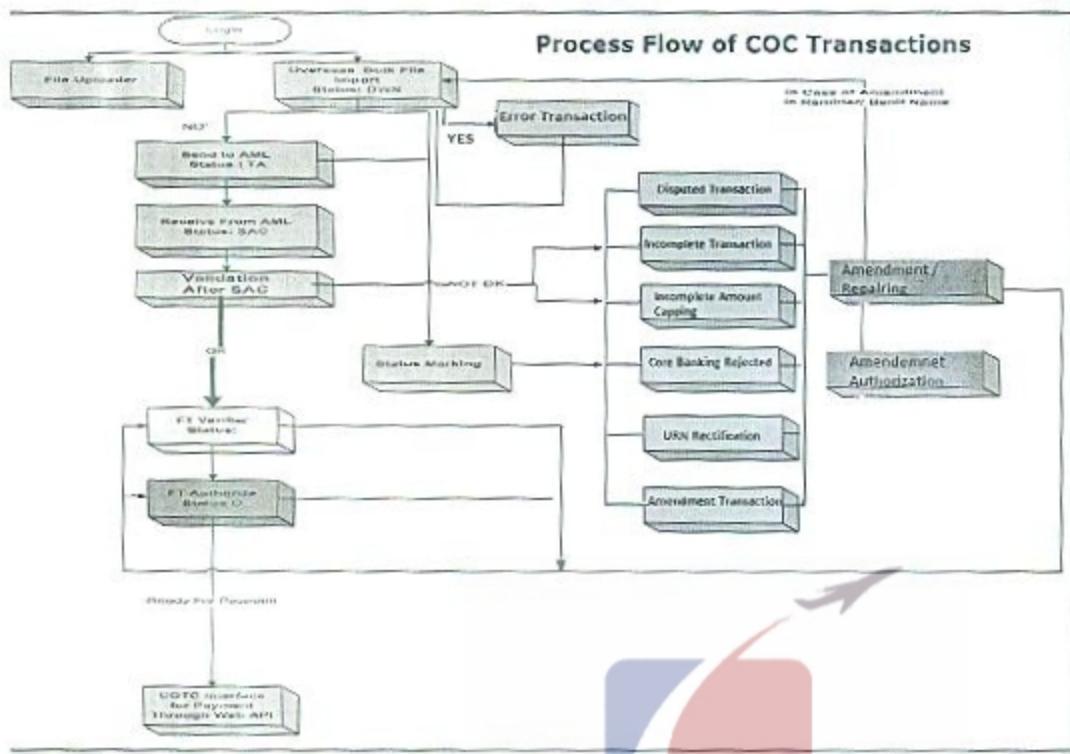
If beneficiary account exists in any other branch in branch network, following financial entry was passed.

Bank Branch	Debit Entry	Credit Entry
Branch-1	Debit Exchange Company Account	
Branch-1		Credit Main Office Account of Branch
Branch-2	Debit Main Office Account of Branch	
Branch-2		Credit Beneficiary Account

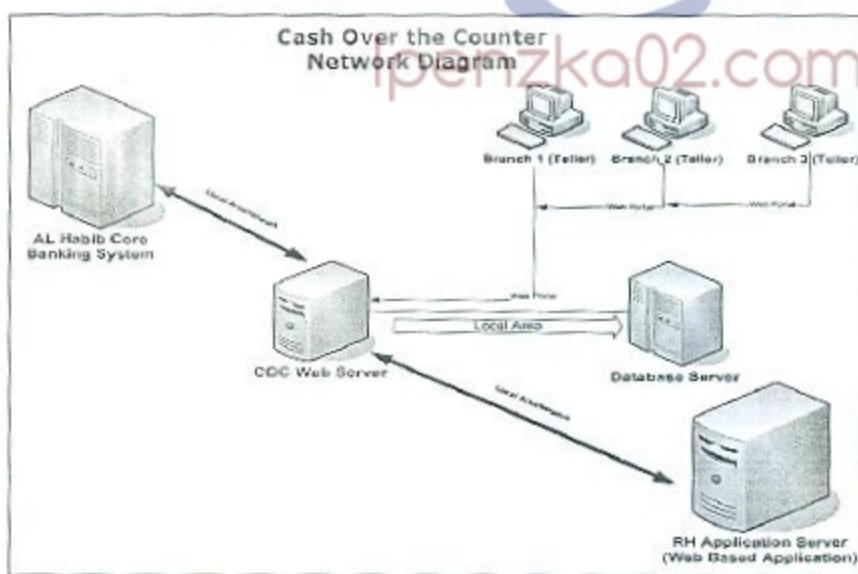
All above points were fully covered in UAT with business user with entire satisfaction.

?) Cash over the counter Transactions (COC):

The below diagram shows the process flow of COC transaction



The below diagram shows the Network Diagram of Cash over the Counter.



Integration Testing and UAT:

Here, I performed integration testing of COC transactions. After executing 'After SAC' process, all COC transactions are moved to FT Verification panel, where user verifies the transaction and process. After that transactions moved to FT Authorization panel where transaction again verified by second user and then transaction available to pay at branch. If transactions are not validated, they were marked by the system with appropriate comment.

COC transactions are belong to those customers who do not need to have account in the branch. In COC transaction, A message is received by the user to visit branch along with national identity card and reference number. In this case, I also tested the SMS service to generate SMS to customers mobile numbers provided in the transaction by the remitter.

There was separate environment containing COC Application integrated with Home Remittance with an API and AHBS Core banking. Here I tested the COC API, in which I specifically verified that Reference Number fetched all the details of beneficiary that was provided in exchange company files. I also verified that all the fields, validations given in below COC Interface are working fine. When COC transaction is posted, second user again authorizes it.

Here my fundamental knowledge of software engineering skills were utilized that included IIS server configuration, web app configuration, app configuration settings, API (application programming interface) etc.

The screenshot shows a web-based application for managing cash-on-counter transactions. The main header is 'Bank AL Habib Limited' with a logo. Below it, the specific module is 'Home Remittance Cash on Counter Transactions'. A note at the top says 'Transaction Submit Successfully Please Verify Transaction From Authorization Ref ID AA0001'. On the left, there's a vertical menu with options like 'PRIVATE TRANSACTIONS', 'BENEFICIARY TRANSACTIONS', 'Remittance', and 'Logout'. The central part of the screen displays a transaction record: 'TRANSACTION REF ID: AA0001', 'REMITTANCE NUMBER: 1234567890', 'AMOUNT: 10,000.00', and 'BRANCH: PAKISTAN'. Below this, there's a 'Beneficiary Information' section with fields for 'Beneficiary Name', 'Address', 'Contact No.', 'Account No.', 'Amount', and 'Branch'. At the bottom, there's a note: 'Transaction Submit Successfully Please Verify Transaction From Authorization Ref ID AA0001'.

Note: Attached is the Activity Diagram of COC Transaction Process.

Data Migration Testing of COC Transaction from Existing System to New System:

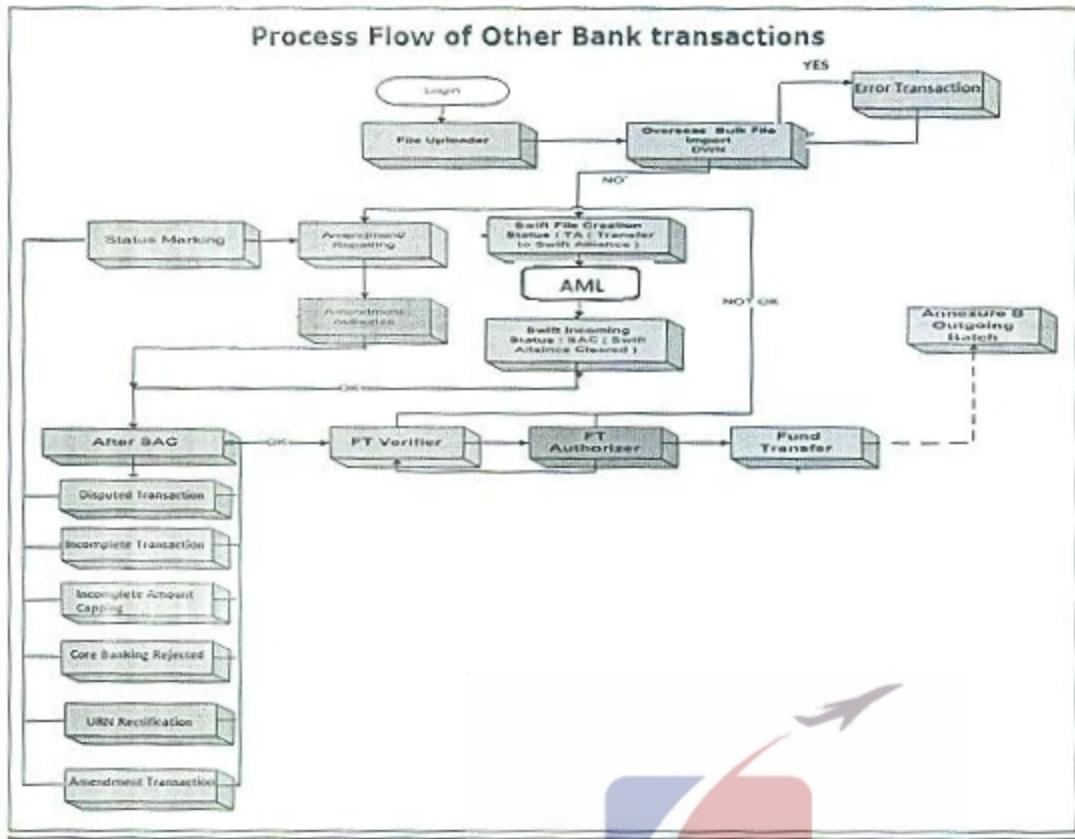
I also performed COC transaction migration from old system to new system, for which a utility was developed by in-house development team, I verified that each and every transaction from old system is safely moved to new system, and also verified that if new COC interface is published to bank branch network, then COC transactions should be easily paid without any problem.

Note: Attached is the Email of COC Migration Testing activity.

Element 3 and Element 4

Element 4

Other Bank Transactions



The transaction which have to be credit directly to other bank customer accounts (other than Bank Al habib), were treated separately with two options

- If bank has IBFT (Inter bank Fund Transfer) setup with other bank, the transaction were directly posted to other bank customer Accounts via Phoenix Server and pass through 1Link.
- If bank do not had any IBFT setup with other bank then PRI, (Pakistan remitting initiative) files were generated that were sent to other bank via proper communication channel like email or shared folder.

IBFT Transactions (Integration Testing)

I engaged myself with third party company named TPS Pakistan to carry out IBFT testing, for which I was extensively involved in very complex local settings and configurations that involve following tasks and activities

Element 4 and Element 6

- Develop understanding of the GDCI API Transaction response codes
- Configuration and settings at Local UAT environment and connect with test phoenix server.
- Develop communication with ADC team (Alternative Delivery Chanel team) and TPS to get verify the transaction posted from Home Remittance at Phoenix server log.

Note: Attached is the email of IBFT Testing status

Generating RTGS (Outgoing) Files (Integration Testing):

If IBFT is not done successfully due to any reason, then RTGS files were generated and send to other bank via email.

Following is the sample RTGS file generated for other bank

File ID	From Bank	To Bank	Date	Amount	Rate	Ref ID	AMT IN RSD	AMT IN PKR	SWIFT ID	CCODE
IBFT-001	PAKISTANI BANK FOR INTERNATIONAL TRADE LTD.	SHAHZAIB NAEEM	2015-06-22 11:44:39	15000	18.00000	PAKIBFT0000000001/04/2015	20	1500000	PBIFTS PAKI	CC25C025W
IBFT-002	SHAHZAIB NAEEM	PAKISTANI BANK FOR INTERNATIONAL TRADE LTD.	2015-06-22 11:44:39	168750	18.00000	PAKIBFT0000000002/20/2015	50	1687500	PBIFTS PAKI	CC25C025W
IBFT-003	PAKISTANI BANK FOR INTERNATIONAL TRADE LTD.	SHAHZAIB NAEEM	2015-06-22 11:44:39	9810978831120009	18.00000	PAKIBFT0000000003/21/2015	000000002415200001/01/2015	9810978831120009	PBIFTS PAKI	CC25C025W
IBFT-004	SHAHZAIB NAEEM	PAKISTANI BANK FOR INTERNATIONAL TRADE LTD.	2015-06-22 11:44:39	9810978831120009	18.00000	PAKIBFT0000000004/21/2015	000000002415200001/01/2015	9810978831120009	PBIFTS PAKI	CC25C025W

In this I verified that

- RTGS files for all other banks in Pakistan for which our bank-received transactions via exchange company are generated with accurate format provided by PRI.
- I verified that proper financial entries are passed in system with various scenarios of Exchange Company and Outgoing account positions.

Generating RTGS (Incoming) Files (Integration Testing):

Similarly, Other bank also send the RTGS files to our bank to credit transactions to our own customer accounts and they are called RTGS(Inbound) transactions, for which there is similar mechanism is provided in our system explained above.

In that case I verified that

- Incoming RTGS files are loaded in system without any problem showing correct financial values and number of transactions
- Incoming transactions do not required AML process, as it is already done at receiving bank.
- All above cases belong to Account to Credit transactions were verified because of similar nature.

Element 4

Element-3 &
Element-4

Note: Attached is the email of UAT Execution status.

Live Deployment, Setup and Configuration,

After detailed discussion with vendor, I finalized the system requirement for live deployment of application and its configuration and setup. Considering next five years of system usage, following hardware I recommended for Primary and Secondary Servers (DR Site). Here my fundamental knowledge of computer engineering has helped me to understand and finalize the system requirements.

S. No	Server Specifications	Configurations
1	Processor	Quad Core or Dual Core Intel Xeon series processor
2	Chipset	Intel
3	Ethernet Card	Dual port Gigabit Ethernet
4	Raid Support	Yes
5	Hard Disk	2 X 146GB 15K RPM
6	HBA Optional	Dual Channel 4Gb Optical FC Host Bus Adapter, PCIe (Required if external storage is used)
7	Memory	8 GB
8	Optical Drive	DVD +/- RW ROM, Internal
9	Power Supply	Redundant Power Supply
10	Operating System Support	MS Windows Server 2008 with Hyper V

Area	Software	Version
Framework	.Net	3.5
Servers		
Application/Database Server	Microsoft Windows	2008
Workstation/Clients	Microsoft Windows	Windows 7 with IE 10 or Above IIS (Web Server)
Database	SQL Server	2008R2
Report Writer	Crystal Reports	Runtime

In order to perform live deployment |

1. Verified that UAT environment is tested with up to date configuration and settings with current version of third party application
2. Document the UAT environment with entire configurations and settings.
3. Deploy setup and configure the application and database on live servers.
4. Migrate the COC Transactions from existing system to new system using SQL queries according to the COC migration testing strategy.
5. Executed sanity testing at live with real time test transactions provided by business to verify at live by coordinating with business users.

On Premise Training and Live Issues resolution:

I was deputed in Home Remittance Department to provide system training, application support and to engage vendor to resolve issues if occurred at live environment. Here my communication, presentation and leadership skill has helped me to drive business team to understanding the system flow and execute business operations.

Element-6

Example of Risk of Engineering Compromise and Technique used to mitigate Risk:

Functional and Integration testing of entire system was required to use real transactions files in UAT Environment. I was acquiring those files from business team for testing purpose. It was very risky to use such files for testing, as it contained customer transactions details. In order to control this, I recommended business team to send me very old transactions files whose transactions had been completely processed and they were no more required by the business team. After that business team started to send used files for testing purpose in UAT environment and the matter of transactions confidentiality was controlled.

Element-7

Knowledge Matrix

Knowledge Element	W/S Episode 1	W/S Episode 2	W/S Episode 3	W/S Episode 4
Application of knowledge from one or more of the natural sciences	✓		✓	
Application of knowledge of mathematics				
Application of knowledge of engineering fundamentals	✓	✓	✓	
Application of specialist engineering knowledge to solve complex problems	✓	✓	✓	
Application of knowledge of design methods to solve complex problems				
Application of knowledge of key elements of engineering practice	✓	✓	✓	
Role of Engineering in Society			✓	
Application of advanced knowledge in an area of your discipline		✓		



SECTION FOUR – SUPPLEMENTARY EVIDENCE

Academic Transcript(s)

Please attach a certified copy of your academic transcript(s) if you have not already supplied one to IPENZ

WORK HISTORY SUMMARY

List your employment history starting from your most recent employment and then chronologically back to the start of your first job.

Ref No	Name of Employing Organisation	Position Title	End mm/yy Start mm/yy	Key responsibilities, activities undertaken, major achievements and/or projects. These should relate to your practice area description.
1.	Bank Al Habib – IT Innovation Department	Manager (IT Quality Assurance Engineer)	Present: To Date Start date: 1st Jan,2016	<p>Key Responsibilities/Activities Undertaken</p> <ol style="list-style-type: none"> 1) Develop sufficient understanding of business requirement. Review the requirement and identify flaw in it, draw comparison with systems and recommend changes as per business need. 2) Perform system testing (functional testing), identify faults as per standards. Analyze, debug and resolve the issues related to application and configuration to meet system requirement. 3) Analyze, diagnose and resolve problems in application, web server, database configuration, operating system, hardware maintenance and upgrade. 4) Provide technical assistance to quality assurance engineers. Assist them in test scope identification and in developing test cases. 5) Perform sprint plan, design review, and provide input on functional and non-functional test requirements. 6) Test system to determine its operational reliability by performing integration testing, performance tests and user acceptance testing. 7) Review system architecture for product road map considering technology limitations and recommending technical and non-technical directions for system upgrades. 8) Prepare and review operational manual and documentation for technical team and end users. Conduct trainings to deliver system understanding. 9) Work as close liaison for users and management to ensure that
		Assistant Manager (IT Quality Assurance Engineer)	- End date: 31st Dec,2015 Start date: 5th Apr,2012	

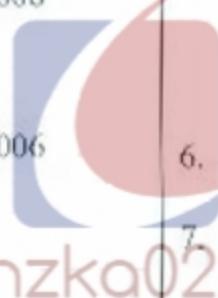
Ref No	Name of Employing Organisation	Position Title	End Start	mm/yy mm/yy	Key responsibilities, activities undertaken, major achievements and/or projects. These should relate to your practice area description.
					<p>standard procedures and practices are being followed.</p> <p>10) To actively participate in Sprints Dev-ops meetings and provide feedback about the current team project assignment and overall QA status and progress.</p> <p>11) To measure the quality grades of each team sprints.</p> <p>12) As per my role, I had to regularly interacted with Chief Architect, Business Analysts, Software engineers, team leads, business users etc related to technical and non technical aspects, Beta Testing, system understanding, team progress and reporting.</p> <p><u>Major Achievements and/or Projects:</u></p> <ol style="list-style-type: none"> 1) Performed integration testing of CIF (Customer Information Folio) between legacy system and newly developed core banking system. 2) Test the Co-existence service for the data generated from newly developed core banking system and pushed in existing (legacy) core banking system. 3) Functional testing of Bio Metric Mechanism of Complete Account Opening Mechanism in Core Banking System. 4) Functional testing of Regulatory Changes in Core Banking system like WHT - Withholding Tax imposed by State Bank of Pakistan on Filer and Non Filer Transactions. 5) Complete implementation of Home Remittance System (third party) replacing the legacy desktop based application for Home Remittance Banking Business. 6) Functional testing of core banking system areas that include General Banking and advance banking modules. 7) Evaluated Functional Testing tool and recommended to procured for Automation of Functional Test cases for Core banking system. 8) Develop Test Automation Framework of Core Banking System for Functional and Regression Testing. Train the team with QFT features and functionalities and train them with test scripts development processes. 9) Design Process for QA activities and train team.

Ref No	Name of Employing Organisation	Position Title	End mm/yy Start mm/yy	Key responsibilities, activities undertaken, major achievements and/or projects. These should relate to your practice area description.
2.	LN Technologies	Senior Manager Software Quality Assurance	End date: Jan,2012 Start date: 1st Feb,2011	<p>Worked as a primary point of contact for software quality assurance activities related to all technical and non-technical aspects.</p> <p><u>Key Responsibilities/Activities Undertaken:</u></p> <ol style="list-style-type: none"> 1. To plan, organize, direct, control and coordinate the deployment of quality system and certification process within organization. 2. To estimate, prioritize software-testing tasks and work with Software Project Manager to finalize the time lines. 3. To review and analyze software product requirement, identify flaws and issues in requirement, deliver complete business requirement understanding to software developer and software test engineers for development and test execution activities respectively. 4. To develop test specifications, review the test cases prepared by software test engineers, assist in developing automated and manual test scripts using automated testing tool and supervise the entire test execution activities for the product requirement in system. 5. To identify functional and non-functional defects in system, report them in bug reporting system, analyze the root causes and provide support to resolve them as per the quality assurance standard and guideline. 6. To review the defects reported by software testers and prioritize to resolve as per severity, also manage those issues to priorities them for future releases working with technical architect and project managers. 7. Analyze software system and processes, provide recommendation for its improvement as per the system road map and technology limitations, and actively involved in system and process improvement activities. 8. Review and prepare system operational manual, technical documentations for technical team and conduct training to deliver system understanding. 9. To regularly interacted with Project Manager, Principal Software engineer, development team leads, business analyst, qa engineers related to technical and non technical aspects and departmental reporting.



Ref No	Name of Employing Organisation	Position Title	End Start mm/yy mm/yy	Key responsibilities, activities undertaken, major achievements and/or projects. These should relate to your practice area description.
				<p>Major Achievements and/or Projects: Provided Product Quality Assurance Service for an ERP System of Traffic Program of a Legal Company in USA.</p>
3.	Wavetec (Pvt) Ltd	Manager, Software Quality Assurance	End date: 31st Jan,2011 Start date: 4th Oct,2010	<p>Key Responsibilities/Activity Undertaken</p> <ol style="list-style-type: none"> Develop thorough understanding of system requirement, identify potential risks, flaw and incompleteness within requirement as per internal standards and procedures Work as close liaison for users and management to ensure that standard procedures and practices are being followed. Developing, conducting and executing testing and implementation strategies. Executing system testing, identifying issues (functional and non functional) and other errors in system as per the testing strategies i.e. testing guide line, quality standards and testing techniques Analyzing, assessing and diagnosing technical problems and issues in system as application, web server and data base configuration and setups, operating systems and hardware maintenance and upgrades. To provide assistance in trouble shooting, testing and diagnosing the system problem and related issues until its final rectification. Developing, reviewing technical guidance documents and reports such as deployment guide, training manuals, operational manuals for client solution and provide training to operations. Reviewing system architecture for product road map and recommending technical and non-technical directions for system upgrades and its usability. <p>Major Achievements and/or Projects: Provided Product Quality Management Service for the following software products.</p> <ol style="list-style-type: none"> Information Display System (IDS Server and DSA Client). Information Display System and Electronic Queuing System Integration.

Ref No	Name of Employing Organisation	Position Title	End mm/yy Start mm/yy	Key responsibilities, activities undertaken, major achievements and/or projects. These should relate to your practice area description.
4.	Mobile Complete Inc, (Pakistan Development Centre)	Manager, Software Quality Assurance ----- Lead, Software Quality Assurance	End date: 31st Aug, 2010 Start date: 24th Sep, 2008 ----- End date: 23rd Sep, 2008 Start date: 2nd May, 2006	<p>Worked for more than four years as a Primary Point of contact (in offshore setting, Karachi) for Product Quality Assurance, training and support for Device Anywhere Enterprise suite.</p> <p>Key Responsibilities/Activities Under taken</p> <ol style="list-style-type: none"> 1. To report and update QA progress, achievements and ongoing tasks to immediate head in USA. 2. To prepare the release plans provide estimates for product module testing time lines. 3. Lead QA team comprises of Six QA Engineers in offshore setting. 4. Establish communication across (Offshore/Onshore) settings by coordinating and working closely with other teams like project managers, software developers and solution engineers. 5. To review and identify concerns/issues in product requirement and develop sufficient understanding of the new requirements of the product features and relevant technologies and communicate it to cross-functional peers. Train and supervise QA team in test execution and assist them to incorporate the new requirement in testing. 6. To analyze the existing system and provide recommendations for required changes by doing business impact analysis and cost benefit analysis. 7. I was responsible for developing, reviewing and maintaining product technical documentations, end user documentations, business process and procedures according to the internally developed quality standards. 8. I have conducted various training for different testing methodologies, like Functional testing, Regression Testing, Performance testing (Load Test), Configuration test, Installation test, smoke test, Integration test, Data Migration test, Sanity test, Exploratory testing. 9. I was also responsible to handles and rectify CRT (Customer Reponses Team) issue working closely with solution team. 10. I was responsible to provided training to new inductees in the QA team with product knowledge and functional understanding. 11. I was responsible to evaluate performance of all QA engineers in team during their tenure. Conduct team discussions for process improvement and introduce best processes and practices. 12. To identify QA automation tools and software testing best practices needed for the immediate group.


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Ref No	Name of Employing Organisation	Position Title	End Start mm/yy mm/yy	Key responsibilities, activities undertaken, major achievements and/or projects. These should relate to your practice area description.
				<p>Major Achievements (Enterprise Product Suite Core Modules/ Projects)</p> <p>I provided quality assurance services for the following core modules of Enterprise Product Suites successfully</p> <ol style="list-style-type: none"> 1. Device Anywhere Automation (Automation Scripting, Resource Manager, Test Suite, Scheduling, Data Driven Automated Scripts, Virtual USB Support, Automated Script Reporting). 2. Device Anywhere Smart Phones. 3. Device Anywhere Production Monitoring (Monitor Scripting, Dashboard, SIM Switch, Production Monitor Reporting, Monitor Load Testing). 4. Device Anywhere Enterprise Product Licensing. 5. Device Anywhere Server Integrations (Access Server, Device Anywhere Studio, Ensemble Server, Device Anywhere, Mobile Harmony, Live Test, Live Monitor, Web Tests). 6. Device Anywhere Business Workflows Testing (Website Administration, My Account, Subscription Management, Device Search, Website Marketing Pages, Custom Packages). 7. Consumer Experience Management. 8. Device Anywhere New Scripting (Dynamic Scripting) with Customer Scenario Testing. 9. Web Test (Web Proxy). 10. Video Quality Monitoring. 11. Device API. 12. Cross Platform Operating System Application Testing. 13. Cross Browser Web Application Testing. 14. Customer Data Migration Testing.
5.	Kalsoft (Pvt) Ltd	Software Configuration Management Engineer	End date, 28th April,2006 Start date, 9th May,2005	<p>Key Responsibilities/Activity Undertaken</p> <ol style="list-style-type: none"> 1. To provide support to organization for the activities related to software process engineering & improvement and provide guidance for SPEG (Software Engineering Process Group) 2. Responsible for planning, undertaking and managing the quality assurance activities of different projects in compliance with software quality standards. 3. Prepare Internal Quality Audit Plans, Conducting Internal Quality Audits, Coordinating and following-up with section heads on non-

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					<p>compliances and report to higher management regarding audit activities, status accounting and reviews.</p> <p>4. Develop processes and procedures for further improvement in configuration management from the CMMI level II guidance and trained people with configuration management processes area to enforce the defined process.</p> <p>5. Prepare shipment package as per the requirement for a particular project. Perform backups per schedule, recovery as per disaster appears, restore as per need.</p> <p>6. Administrator and maintain the configuration management servers and evaluate the current environment and propose recommended CM solutions.</p> <p><u>Major Achievements</u></p> <p>1) I successfully implemented Configuration Management Process Area within Organization.</p> <p>2) I conducted trainings related to CMMI Process areas.</p> <p>3) I successfully managed the Configuration Management System for Organization and Project Artefacts.</p> <p>4) My SCAMPI class A, B (V1.1) appraisal was conducted successfully during 6th to 10th Sept 2005 and 20th to 25th Feb, 2006 with Raghu R. Kamath and PM Shareef (Lead Appraiser SCAMPI-Appraisal Service Provider Trimentus Technologies-SEI Partner).</p>

CONTINUED PROFESSIONAL DEVELOPMENT (CPD) ACTIVITIES SUMMARY

DESCRIPTION OF ACTIVITY AND LEARNING.					Was Formal Assessment involved? What was the outcome?
Date(s)	Actual Hours	Form of Activity	Title of activity	What was the knowledge you acquired? How have you applied this knowledge in your engineering practice?	
20 th , 21 st , 22 nd Sept,2013	24	Participated in Training Organized by Bank Al Habib IT Department	Agile Development (21 PDUs)	Gained practical and theoretical knowledge of Agile Methodology Best Practices. I am currently practicing the Agile methodology in IT Innovation Bank Al habib Ltd as Scrum Master.	No formal Assessment was Involved. Training Successfully Completed.
28th April, 2013 to 30th May, 2013	32	Participated in Workshop organized by Rahimabad Ismaili Students Association.	Workshop on 'Microsoft SQL Server, 2008'	This course has provided me hands on practical experience to work with Microsoft SQL Server 2008 and gained knowledge about latest advancement in database systems. I have applied the knowledge while implementing Home Remittance System in Bank Al Habib Ltd	No formal Assessment was Involved. Training Successfully Completed.
3rd March to 4th March,2013	8hrs	Participated in Workshop organized by Rahimabad Ismaili Students Association.	Workshop on 'SEO-Search Engine Optimization'	I gained knowledge about Search Engine Optimization and taken understanding about how its process affects the website or web page visibility in the search engine.	No formal Assessment was Involved. Workshop Completed Successfully.
August, 2010 to November,2010	24	Participated in Training for Exam Preparation	Project Management with PMP Exam Preparation	Gained knowledge of Professional Project Management skills. Applied the knowledge and skills in the capacity of Managerial Position in various organizations during software testing project planning, execution, management and monitoring.	No formal Assessment was Involved. Training

DESCRIPTION OF ACTIVITY AND LEARNING.					Was Formal Assessment involved? What was the outcome?
Date(s)	Actual Hours	Form of Activity	Title of activity	What was the knowledge you acquired? How have you applied this knowledge in your engineering practice?	
					Successfully Completed.
13th September, 2009 to 14th November, 2009	64hrs	Participated in Workshop organized by Rahimabad Ismaili Students Association.	Workshop on 'Computer Hardware and Troubleshooting'	Gained hands on experience of computer hardware troubleshooting techniques. The knowledge gained has added further value to my overall practical experience to work with computer hardware; it has also helped me to trouble shoot computer hardware and perform troubleshooting in various occasions. The workshop has also provided me knowledge about the latest advancement in hardware technology.	No formal Assessment was Involved. Training Successfully Completed.
15 December, 2007	3 hr	Presented two Paper in Research Conference as Part of Independent studies in Software Engineering Masters Programme	Industrial Challenges of Software Test Automation' and Economic aspect of Software Test Automation'	Performed Research and Analysis on Software Test Automation tools and industrial practices and identified the challenges. I have applied the knowledge while doing research and analysis of various Software Test Automation tools and identify the best tool for Organizational Software Product Regression testing while working in Bank Al habib as Software Quality Assurance Engineer.	No formal Assessment was Involved. Paper presented successfully
Completed on 1st Feb, 2007	15hr	Participated in Workshop organized by Karimabad Ismaili Student welfare Association.	Workshop on Microsoft Project 2003	I gained practical knowledge about this tool and utilized it in various software test planning and estimations in various organization. This course has provided additional value to my over project management experience and knowledge by providing practical exposure towards technology.	No formal Assessment was Involved. Workshop Successfully Completed

DESCRIPTION OF ACTIVITY AND LEARNING.					Was Formal Assessment involved? What was the outcome?
Date(s)	Actual Hours	Form of Activity	Title of activity	What was the knowledge you acquired? How have you applied this knowledge in your engineering practice?	
April,2006 to July,2006	128hrs (Approx)	Participated in workshop Organized by H.H.Prince Aga khan Council for Karimabad - Human Resource Development committee in collaboration with School of Leadership, Karachi	Workshop on Leadership Enhancement and Achievement Program - Connecting Communities	In this workshop, members from different communities had participated like (Hindus, Bohra's, Parsi's, Christians, Memon's and Ismaili's). This workshop has given me excellent exposure to work with different communities belongs to different religions and gave me inspiration of diversity and pluralism. This workshop has added great advantage to my overall leadership skills and abilities. I have been utilizing the leadership skills while working as Managerial Roles in different organization.	No formal Assessment was Involved. Workshop Successfully Completed
11th June,2005 to 7th August,2005	48hrs (Approx)	Participated in workshop Organized by Aga Khan University Hospital - Human Resource Division	Workshop on Leadership and Management Program:	This workshop has also benefit to my overall leadership skills and abilities. I utilized the leadership skills while working as Managerial Roles in different organization.	No formal Assessment was Involved. Workshop Successfully Completed.
17th Feb,2004 to 21st Feb,2004	40hrs	Participated in Workshop organized by Career planning and Placement Bureau, Sir Syed University of Engineering and Technology	Workshop on Image management (Communication Skills, Presentation Skills, Interviewing skills and resume	This workshop has benefit to my communication skill, presentation skills, interviewing skills and resume building skills. I utilized those skills to communicate with business analyst, project managers, software engineers, software test engineers and other stakeholders. I have gained good competency in writing skills and have ability to interact professionally with a diverse group, executives, managers, and subject matter experts. I have extensive experience in	No formal Assessment was Involved. Workshop Successfully Completed

DESCRIPTION OF ACTIVITY AND LEARNING.					Was Formal Assessment involved? What was the outcome?
Date(s)	Actual Hours	Form of Activity	Title of activity	What was the knowledge you acquired? How have you applied this knowledge in your engineering practice?	
			building skills)	executing meetings, coordinating technical effort and project status, project deliverables, technical issue escalation and status reporting. I have been taken interviews for the mid level and senior level QA positions.	
Completed on 15th Feb,2004	64hrs	Participated in Workshop organized by Karimabad Ismaili Student welfare Association.	Workshop on Network Specialist	In this workshop, I gained practical knowledge about Computer Networking and creating computer network. This knowledge has added value to my over professional experience in terms of working with Network configurations, IP Settings and other related work in day to day work assignments. Understanding of Networking knowledge has also given me benefit while performing application load testing over the network to identify the response time and other parameters.	No formal Assessment was Involved. Workshop Successfully Completed.
August, 2003 to September,2003	2 Months	Participated in Training Course of CCNA conducted by Computer Training and Testing Center - CTTC	Training Course Covered Practical knowledge about Building Scalable Cisco Internetworks	This course has provided me in-depth knowledge about the CISCO Network devices, its configuration and settings. I gained knowledge about the related hardware and develop understanding how they work in internet backbone. I utilized those skills during my engineering program while studying Data Communication (CE312) and Computer Communication and Network (CE402) courses. These courses have provided additional value to my over all concept and understanding about computer network and wide area network devices and their working.	No formal Assessment was Involved. Training Completed Successfully
July,2003 to August, 2003	40hrs	Participated in Training Course of CCNA conducted by Computer Training and	Training Course covered practical knowledge of Interconnecting Cisco Network	This course has provided me in-depth knowledge about the Network devices and their working. I utilized those skills during my engineering program while studying Data Communication (CE312) and Computer Communication and Network (CE402) courses. These courses have	No formal Assessment was Involved.

DESCRIPTION OF ACTIVITY AND LEARNING.					Was Formal Assessment involved? What was the outcome?
Date(s)	Actual Hours	Form of Activity	Title of activity	What was the knowledge you acquired? How have you applied this knowledge in your engineering practice?	
		Testing Center - CTTC	devices	provided additional value to my over all concept and understanding about computer network and wide area network devices and their working.	Training Completed Successfully

