| No consistent for the large an exact bits of the large of | Requirement | ID | Group | Group Short Name | Name | Purpose | Console Input | File Input | Console Output | File Output |
|--|---|--------|-------|-------------------------|---------------------|--|---------------|-------------------------|---|-------------------------------------|
| Marche March Mar | Login | | | | | | | | | |
| Marche March Mar | No transaction other than login should be | R1T1 | | | Logout Blocking | Cannot logout before logging in | logout | None | Error prompt for user to log in | None |
| RTT Deposit Biologic Development Devel | accepted before the first login | | | | Createacct Blocking | Cannot create account before login | createacct | None | Error prompt for user to log in | None |
| ## 15 Windows Blassing Carron statistics below log in windows Nees Error prompt for sach to big in Nees Error prompt for sach to | | R1T3 | | | Deleteacct Blocking | Cannot delete account before login | deleteacct | None | Error prompt for user to log in | None |
| ATM Cepter Part Par | | R1T4 | | | Deposit Blocking | Cannot deposit before login | deposit | None | Error prompt for user to log in | None |
| Part Login Management Login Part Login Part Login Part Login Part Part Login Part | | R1T5 | | | Withdraw Blocking | Cannot withdraw before login | withdraw | None | Error prompt for user to log in | None |
| Part | | R1T6 | | | Transfer Blocking | Cannot transfer before login | transfer | None | Error prompt for user to log in | None |
| Login/Logout the ATM transaction a recipital of security of the Common o | | R1T7 | | | Login Permitted | Allow login | login | None | Login type prompt (machine or agent) | None |
| ATM Logic is a Part Primate Management of the Character of the Management of the Manageme | | R1T8 | | | Invalid Input | Prompt for logging in | hello | None | Error prompt for user to log in | None |
| ATM Ligan ATM Ligan ATM Creatment | Login/Logout | | | | | | | | | |
| ATM Ligaria and According of the floating of the contraction of the floating of th | After ATM login, only ATM transactions | | | | | Allers ATM In air | login | Valid Account List File | ATM Is and in the section to the section to | Transaction Summary File: |
| No instruction of the first in bigs module Recorded after logging out Recorded after | and logout are accepted. | R2T1 | | | ATM Login | | | | | EOS 0000000 000 0000000 *** |
| ATM Withdraw Allow Report after regarding out after winds we command allow legals after winds we command after regarding and after regarding after regarding and after regarding after regarding and after regarding and after regarding and after regarding after regarding and after regarding and after regardi | No transaction attend then look about | | | | 71111 Login | | | | | |
| Afford Withdraw Afford Withdra | | | | | | | | 0000000 | | Towns of the Organization File File |
| ATM Unindraw ATM Unindraw ATM Deposit ATM Transfer ATM Continuous ATM Deposit ATM Deposit ATM Deposit ATM Transfer ATM Deposit | and accepted and regging cer | | | | | Allow ATM withdraw | | | Ask for futher input for withdraw | |
| RET3 ATM Deposit and Proposit and Proposition and Pro | | R2T2 | | | ATM Withdraw | | | | Logout successfully | |
| ATM Deposit ATM Createsoct ATM Transfer ATM Transfer ATM Transfer ATM Createsoct ATM Deposit ATM Createsoct ATM Deposit ATM Deposit ATM Deposit ATM Transfer ATM Deposit ATM Transfer ATM Deposit ATM Transfer ATM Deposit ATM Deposit ATM Transfer ATM Deposit AT | | | | | | Block logout after logout | | | Error prompt for user to log in | |
| ATM Deposit | | | | | | | | | | |
| ATM Deposit Allow Opport affer deposit command Block deposit affer logout opport 1000000 Emport | | | | | | Allow ATM deposit | | | Ask for futbor input for deposit | |
| R2T4 ATM Transfer Allow Apport after regotated command follows: ATM Transfer Allow Apport after restated command follows: ATM Transfer Allow Apport after restated command follows: ATM Createact ATM Allow Apport after restated command follows: ATM Createact ATM Allow Apport after restated command follows: ATM Deleteact ATM Deleteact ATM Deleteact ATM Deleteact ATM Allow (apport after deleteact after logout accessfully) ATM Logout-login ATM Logout-login ATM Logout-login ATM Logout-login ATM Logout-login ATM Invalid leput ATM Invalid l | | R2T3 | | | ATM Deposit | | | | | 203 0000000 000 0000000 |
| ATM Transfer ART T | | | | | | | | | | |
| ATM Transfer Allow logout after familier transfer command Block transfer command Block transfer and Block transfer command Block transfer after logout transfer ATM Createacct ATM Createacct ATM Createacct ATM Deleteacct ATM Deleteacct ATM Login-login ATM | | | | | | | deposit | 000000 | | |
| R214 ATM Transfer Allow ADM Transfer Command Block transfer command Block transfer and Polypout Careford and P | | | | | | | | Valid Account List File | Ack for futbor input for transfor | |
| Block transfer after logout transfer after logout transfer after logout transfer new transfer logout transfer new transfer logout transfer new transfer logout transfer logout transfer new transfer logout transfer logout learn deleterance transfer logout learn deleterance transfer logout logout after deleterance transfer logout new transfer logout logout after deleterance transfer logout logout logout after deleterance transfer logout logo | | DOT/ | | | ATM Transfer | | | 1000000 | | EOS 0000000 000 0000000 *** |
| R2T5 ATM Createact Command Block createact Command ATM Deleteact ATM Deleteact ATM Createact ATM Createact ATM Createact ATM Createact ATM Createact Command ATM ATM Deleteact ATM Createact ATM Createact ATM Createact Command Block Createact Command ATM ATM Deleteact ATM Createact Createa | | 11214 | | | ATW Hansiel | | | | | |
| ATM Createacct Allow logout after reastanced command Block createacct after logout ATM Deletaacct AIM Deletaac | | | | | | | | 0000000 | | |
| ATM Createact Allow ligour darfer created relating an account via ATM allow logour darfer areasted command flock createact after logout or createact or logour darfer createact or logour successfully. ATM Deleteact ATM Deleteact Forbid deleting an account via ATM Allow logour darfer deleteact or createact after logout or deleteact after logout after after logout after after logout or deleteact after logout after after after logout after after after logout after after after after after logout after after logout after after after after af | | | | | | | | Valid Account List File | | |
| Block createacct after logout and provided by the company of the c | | DOTE | | | ATM Createsast | | | | | EOS 0000000 000 0000000 *** |
| ATM Deleteacct ATM Deleteacct ATM Deleteacct ATM Deleteacct ATM Deleteacct ATM Deleteacct Allow logout after deleteacct Command Block deleteacct Command Block deleteacct Command Block deleteacct Command Block deleteacct Allow logout after deleteacct Deleteacct Command Deleteacct Allow Deleteacct Allow Deleteacct Allow Deleteacct Allow Deleteacct Dele | | nz i s | | | ATIVI Createacct | | | | | |
| ATM Deletaact | | | | | | Blook oroatoadot anor logoat | | 0000000 | Error prompt for door to log in | |
| ATM Deleteact ater logout Deleteact De | | | | | | | login | Valid Account Liet File | | |
| Block deleteact after logout deleteact after logout deleteact after logout deleteact 0000000 Error prompt for user to log in Color deleteact 0000000 Error prompt for withdraw 0000000 Error prompt for withdraw 0000000 Error prompt for withdraw 0000000 Err | | DOTO | | | 47145 | | | | | EOS 0000000 000 0000000 *** |
| ATM Login-login Forbid logging in again after ATM login login machine login withdraw accepted after logging out Farsaction summary File: ATM Login-login Forbid logging in again after ATM logout login machine login machine login withdraw and logout after withdraw accepted after logging out Privileged Withdraw and and logout after withdraw accepted withdraw and logout after withdraw withdraw and logout after withdraw withdraw withdraw and logout after withdraw withdra | | R216 | | | ATM Deleteacct | | | | | |
| ATM Login-login Forbid logging in again after ATM login login machine login machine login machine logout login login machine logout login login machine logout login logout logou | | | | | | block deleteacet after logout | | 0000000 | Error prompt for user to log in | |
| ATM Login-login Forbid logging in again after ATM login login machine 2000000 | | | | | | | | Valid Account List File | | |
| R2T8 ATM Logout-login Allow logging in after ATM logout login login washine control login because the second of the second control login after ATM logout login login washine control login login washine control login login washine control login login washine control login login washine conditions and logout are accepted. ATN Invalid Input Block invalid input Block invalid input Block invalid input login washine control login washing control login withdraw washing control login withdraw washing control login withdraw withdraw withdraw washing control login withdraw withdraw withdraw withdraw withdraw withdraw loging successfully login login and provided withdraw loging logi | | R2T7 | | | ATM Login-login | Forbid logging in again after ATM login | | 1000000 | Error: already logged in | None |
| R2T8 ATM Logout-login Allow logging in after ATM logout login after ATM logout login nation and logout nother than login should be accepted after logging out accepted withdraw and logout accepted withdraw and logout after agent login after ATM logout after withdraw and logout after withdraw after logout after withdraw and logout after withdraw after logout after logout after logoung and logout after withdraw after logout after logout after logoung and logout after withdraw allow logout after withdraw and logout after withdraw after logout withdraw allow logout after withdraw allow logout after logout withdraw allow logout after l | | 11217 | | | 711W Logiii logiii | Torbid logging in again artor / thir login | | | Error. airoady logged iri | None |
| ATM Logout-login Allow logging in after ATM logout login and providing and login after ATM logout login and login an | | | | | | | | | | T 0 F. |
| ATM Logout-login Allow logging in after ATM logout login 2000000 login 2000000 login 20000000 login 20000000 login 20000000 login type prompt (machine or agent) ATN Invalid Input Block invalid input 2000000 login 200000 login | | | | | | | | | | |
| ATN Invalid Input Block inval | | R2T8 | | | ATM Logout-login | Allow logging in after ATM logout | | | Login type prompt (machine or agent) | 200 000000 000 0000000 |
| ATN Invalid Input ATN Invalid Input Block invalid input Ask to chose one of the valid services None Ask to chose one of the valid services None Ask to chose one of the valid services None Ask to chose one of the valid services None Ask to chose one of the valid services Valid Account List File togout successfully logged in as agent, service types prompt for user to log in Allow privileged withdraw Block logout after logout Block logout after withdraw command allow logout after withdraw and prompt for user to log in EOS 0000000 000 0000000 *** Error prompt for user to log in EOS 0000000 0000000 *** Error prompt for user to log in EOS 0000000 0000000 *** Error prompt for user to log in EOS 0000000 0000000 *** Error prompt for user to log in EOS 0000000 0000000 *** Error prompt for user to log in EOS 0000000 0000000 *** Error prompt for user to log in EOS 0000000 0000000 *** Error prompt for user to log in EOS 0000000 0000000 *** Error prompt for user to log in EOS 0000000 0000000 *** Error prompt for user to log in EOS 0000000 0000000 *** Error prompt for user to log in EOS 0000000 00000000 *** Error prompt for user to log in EOS 0000000 0000000 *** Error prompt for user to log in EOS 0000000 0000000 *** Error prompt for user to log in EOS 0000000 0000000 *** Error prompt for user to log in EOS 0000000 0000000 *** Error prompt for user to log in EOS 0000000 0000000 *** Error prompt for user to log in EOS 0000000 0000000 *** ETROR ERROR ERROR ERROR ERROR | | | | | | | login | 0000000 | | |
| ATN Invalid Input Block input | | | | | | | login | | | |
| After agent login, all transactions and logout are accepted. No transaction other than login should be accepted after logging out R3T2 Allow privileged Login Allow privileged withdraw Allow logout after sagent command Block logout after logout Block logout after logout Block logout after withdraw command Allow privileged withdraw Allow privileged withdraw Allow privileged withdraw Allow privileged withdraw command Allow privileged withdraw Allow privile | | R2T9 | | | ATN Invalid Input | Block invalid input | | | Ask to chose one of the valid services | None |
| After agent login, all transactions and logout are accepted. No transaction other than login should be accepted after logging out R371 R372 R371 R372 R371 R372 R372 R372 R372 R373 R373 R374 R375 R375 R375 R376 R376 R376 R377 R376 R377 R376 R377 R378 R388 R378 R389 | | | | | | | 1000000 | | | |
| Allow privileged Ugin Allow logout after agent command logout accepted. R3T1 Privileged Login Allow logout after agent command block logout after agent command block logout after agent command block logout after agent command logout after agent command block logout after agent command block logout after agent command block logout after agent command logout agent agent agent agent logout accessfully logout a | After agent login, all transactions | | | | | | login | | Successfully logged in as agent, service | Transaction Summary File: |
| No transaction other than login should be accepted after logging out No transaction other than login should be accepted after logging out Allow privileged Withdraw Privileged Withdraw R372 Privileged Withdraw R372 Privileged Withdraw R372 Privileged Withdraw R372 Privileged Withdraw R373 Privileged Withdraw Allow logout after withdraw command withdraw Allow logout after withdraw command withdraw Withdraw R374 Privileged Withdraw R375 Privileged Withdraw R375 Privileged Withdraw R376 Privileged Withdraw R376 Privileged Withdraw R377 Privileged Withdraw R378 Privileged Withdraw R378 Privileged Withdraw R379 Privileged Withdraw R370 Privileged Withdraw R | and logout are accepted. | D3T1 | | | Privileged Login | | | 1000000 | types prompt | |
| No transaction other than login should be accepted after logging out Allow privileged Withdraw Privileged Withdraw R372 Privileged Withdraw R372 Privileged Withdraw R372 Privileged Withdraw Allow logout after withdraw command withdraw R372 Privileged Withdraw Allow logout after withdraw command withdraw R372 Privileged Withdraw Allow logout after withdraw command withdraw R372 Privileged Withdraw Allow logout after withdraw command withdraw Cooput | L | 11011 | | | i iiviiegeu Logiii | | | | | |
| Allow privileged withdraw Allow logout after withdraw command Allow logout after withdraw withdraw after logout EOS 0000000 000 0000000 00000000 00000000 | | | | | | | | U000000 | Error prompt for user to log in | |
| Privileged Withdraw Allow logout after withdraw command withdraw withdraw 2000000 Logout successfully Ricck withdraw after logout 1000000 First prompt for user to log in | be accepted after logging out | | | | | Allow priviloged with draw | | Valid Account List File | Ack for futher input for with draw | |
| Ricck withdraw after load it load to From prompt for year to loa in | | R3T2 | | | Privileged Withdraw | | | | | 203 0000000 000 0000000 |
| Block withdraw after logout logout 0000000 Error prompt for user to log in | | 1 | | | | Block withdraw after logout | logout | | Error prompt for user to log in | |
| withdraw | | | | | | | 1 | UUUUUUU | | |

| Requirement | ID | Group | Group Short Name | Name | Purpose | Console Input | File Input | Console Output | File Output |
|--|------|-------|-------------------------|--------------------------|---|--|--|---|--|
| | R3T3 | | | Privileged Deposit | Allow privileged deposit Allow logout after deposit command Block deposit after logout | login agent deposit logout deposit | Valid Account List File 1000000 2000000 0000000 | Ask for futher input for deposit Logout successfully Error prompt for user to log in | Transaction Summary File: EOS 0000000 000 00000000 *** |
| | R3T4 | | | Privileged Transfer | Allow privileged transfer Allow logout after transfer command Block transfer after logout | login agent transfer logout transfer | Valid Account List File 1000000 2000000 0000000 | Ask for futher input for transfer Logout successfully Error prompt for user to log in | Transaction Summary File: EOS 0000000 000 0000000 *** |
| | R3T5 | | | Privileged Createacct | Allow privileged creating account Allow logout after createacct command Block createacct after logout | login agent createacct logout createacct | Valid Account List File 1000000 2000000 0000000 | Ask for futher input for create account Logout successfully Error prompt for user to log in | Transaction Summary File: EOS 0000000 000 0000000 *** |
| | R3T6 | | | Privileged Deleteacct | Allow privileged deleting account Allow logout after deleteacct command Block deleteacct after logout | login agent deleteacct logout deleteacct | Valid Account List File 1000000 2000000 0000000 | Ask for futher input for delete account Logout successfully Error prompt for user to log in | Transaction Summary File: EOS 0000000 000 0000000 *** |
| | R3T7 | | | Privileged Login-login | Forbid logging in again after privileged login | login agent login | Valid Account List File 1000000 2000000 0000000 | Error: already logged in | None |
| | R3T8 | | | Privileged Logout-login | Allow logging in after privileged login | login agent logout login | Valid Account List File 1000000 2000000 0000000 | Login type prompt (machine or agent) | Transaction Summary File: EOS 0000000 000 0000000 *** |
| | R3T9 | | | Privileged Invalid Input | Block invalid inputs | login agent 123ABC | Valid Account List File 1000000 2000000 0000000 | Ask to chose one of the valid services | None |
| ogout | | | | | | | | | |
| transaction other than login should be cepted after logging out | R4T1 | | | Logout | Can log out during logging in | login logout | None | Successfully logged out | Transaction Summary File: EOS 0000000 000 00000000 *** |
| | R4T2 | | | Logout Blocking | Cannot logout after logged out | login logout logout | None | Error prompt for user to log in | Transaction Summary File: EOS 0000000 000 00000000 *** |
| | R4T3 | | | Alow Login | Able to log in again agter logged out | login logout login | None | Error prompt for user to log in | Transaction Summary File: EOS 0000000 000 00000000 *** |
| reate Account | | | | | | | | | |
| ivileged transcation, only accepted in ent mode | R5T1 | | | Logout | Allow login | login agent logout | Valid Account File: 1000000 2000000 0000000 | Successfully logged out | Transaction Summary: EOS 0000000 000 0000000 *** |
| | R5T2 | | | Login | Aloow logout | login agent | Valid Account File: 1000000 2000000 0000000 | Successfully logged in | Transaction Summary: EOS 0000000 000 0000000 *** |
| | R5T3 | | | Deleteacct Blocking | Cannot delete account before create account | login agent deleteacct 8000000 | Valid Account File: 1000000 2000000 0000000 | The account numbe does not existing | None |
| | R5T4 | | | Deposit Blocking | Cannot deposit before create account | login agent depost 8000000 | Valid Account File: 1000000 2000000 0000000 | The account numbe does not existing | None |

| Requirement | ID | Group | Group Short Name | Name | Purpose | Console Input | File Input | Console Output | File Output |
|---|-------|-------|-------------------------|------------------------|--|---|--|-------------------------------------|--|
| | R5T5 | | | Withdraw Blocking | Cannot withdraw before create account | login agent withdraw 8000000 | Valid Account File: 1000000 2000000 0000000 | The account numbe does not existing | None |
| | R5T6 | | | Transfer Blocking | Cannot transfer before create account | login agent transfer 8000000 | Valid Account File: 1000000 2000000 0000000 | The account numbe does not existing | None |
| | R5T7 | | | Invalid Account Number | Cannot use alphabte as account number | login agent createacct ABCDEFG | Valid Account File: 1000000 2000000 0000000 | Error invalid account number | None |
| | R5T8 | | | Invalid Account Number | cannot create an account number that starts with ezro | login agent createacct 0123456 | Valid Account File: 1000000 2000000 0000000 | Error invalid account number | None |
| | R5T9 | | | Invalid Account Number | cannot create an account number that digits are less than seven or more than seven | login agent createacct 12345678 digits | Valid Account File: 1000000 2000000 0000000 | Error invalid account number | None |
| | R5T10 | | | Invalid Account Number | cannot create an account number that is the same as existing number | login agent createacct 1000000 | Valid Account File: 1000000 2000000 0000000 | Error account already exists | None |
| | R5T11 | | | Invalid account name | cannot create an account name that the beginning or the end or both with space | login agent createacct 10000000 1000000 | Valid Account File: 1000000 2000000 0000000 | Error invalid account name | None |
| | R5T12 | | | Invalid account name | cannot create an account name that length is less than 3 or more than 30 alphanumeric characters | login agent createacct 10000000 invaild 1000000 | Valid Account File: 1000000 2000000 0000000 | Error invalid account name | None |
| | R5T13 | | | Invalid account name | cannot create an account that all characters are alphabte or number | login agent createacct 10000000 abcdefd | Valid Account File: 1000000 2000000 0000000 | Error invalid account name | None |
| | R5T14 | | | vaild account name | check account name if vaild | login agent createacct 3000000 TEST1 logout | Valid Account File: 1000000 2000000 0000000 | Success | NEW 3000000 000 0000000 TEST1 EOS 0000000 000 0000000 *** |
| Delete Account | | | | | | | | | |
| Privileged transcation, only accepted in agent mode | R6T1 | | | create blocking | Cannot deleteacct account before createacct | login agent deleteacct 3000000 | Valid Account File: 1000000 2000000 0000000 | The account numbe does not existing | None |

| Requirement | ID | Group | Group Short Name | Name | Purpose | Console Input | File Input | Console Output | File Output |
|--|------|---|----------------------------|--------------------------|---------------------------------------|--|---|--|---|
| | R6T2 | | | deposit blocking | Cannot deposit after delete account | login agent deleteacct 1000000 login agent deposite 1000000 | Valid Account File: 1000000 2000000 0000000 | The account numbe does not existing | None |
| | R6T3 | | | withdraw blocking | Cannot withdraw after delete account | login agent deleteacct 1000000 login agent withdraw 1000000 | Valid Account File: 1000000 2000000 0000000 | The account numbe does not existing | None |
| | R6T4 | | | transfer blocking | Cannot transfer after delete account | login agent deleteacct 100000 login agent transfer 1000000 | Valid Account File: 1000000 2000000 0000000 | The account numbe does not existing | None |
| | R6T5 | | | delete account permitted | Allow delete account | login agent deleteacct 1000000 | Valid Account File: 1000000 2000000 0000000 | Success | Account File |
| Deposit | | | | | | | | | |
| Check that the Account # is valid | R7T1 | Deposit Account Format Validation | account_format | reject_invalid | Reject invalid account # format | login agent deposit 1 | Valid Account File: 1000000 2000000 0000000 | ERROR Please enter a valid account number | None |
| | R7T2 | | | reject_alpha | Reject alphabetical account input | login agent deposit ABCDEFG | Valid Account File: 1000000 2000000 0000000 | ERROR Please enter a valid account number | None |
| | R7T3 | Deposit Account Existence Validation | account_existence | reject_nonexistent | Reject non-existent account # | login agent deposit 3000000 | Valid Account File: 1000000 2000000 0000000 | ERROR Account number does not exist | None |
| No further transactions should be accepted on a deleted account | R7T4 | | | reject_deleted | Reject deleted account | login agent delacct 1000000 TEST deposit 1000000 | Valid Account File: 1000000 2000000 00000000 | ERROR Account number does not exist | None |
| 0000000 is a special account and cannot be used. Decision to let users use account 0000000 to cancel a transaction | R7T5 | Deposit Account Cancel Verification | transaction_cancel | transaction_cancel | Cancel deposit | login agent depsoit 0000000 logout | Valid Account File: 1000000 2000000 0000000 | OK - Transaction Cancelled | Transaction Summary: EOS 0000000 000 0000000 *** |
| Agent: Reject deposits above 999,999.99\$ | R8T1 | Agent Deposit Limit Validation | transaction_limits (agent) | upper | Agent: Test deposit limit upper bound | login agent deposit 1000000 99999999 logout | Valid Account File: 1000000 2000000 0000000 | ОК | Transaction Summary: DEP 1000000 99999999 0000000 *** EOS 0000000 000 0000000 *** |

| Requirement | ID | Group | Group Short Name | Name | Purpose | Console Input | File Input | Console Output | File Output |
|---|------|---|---------------------------------|--------------------|---------------------------------------|---|--|---|---|
| | R8T2 | | | lower | Agent: Test deposit limit lower bound | login agent deposit 1000000 0 logout | Valid Account File: 1000000 2000000 0000000 | OK - Transaction Cancelled | Transaction Summary: EOS 0000000 000 0000000 *** |
| | R8T3 | | | violate_upper | Agent: Violate limit upper bound | login agent deposit 1000000 100000000 | Valid Account File: 1000000 2000000 0000000 | ERROR Deposit amount exceeds limit | None |
| | R8T4 | | | violate_lower | Agent: Violate limit lower bound | login agent deposit 1000000 -1 | Valid Account File: 1000000 2000000 0000000 | ERROR Please enter a positive amount | None |
| ATM: Reject deposits above 2000\$ | R8T5 | Machine Deposit Limit Validation | transaction_limits (machine) | upper | ATM: Test deposit limit upper bound | login machine deposit 1000000 200000 logout | Valid Account File: 1000000 2000000 0000000 | ОК | Transaction Summary: DEP 1000000 200000 0000000 *** EOS 0000000 000 0000000 *** |
| | R8T6 | | | lower | ATM: Test deposit limit lower bound | login machine deposit 1000000 0 logout | Valid Account File: 1000000 2000000 0000000 | OK - Transaction Cancelled | Transaction Summary: EOS 0000000 000 0000000 *** |
| | R8T7 | | | violate_upper | ATM: Violate limit upper bound | login machine deposit 1000000 200001 | Valid Account File: 1000000 2000000 0000000 | ERROR Deposit amount exceeds limit | None |
| | R8T8 | | | violate_lower | ATM: Violate limit lower bound | login machine deposit 1000000 -1 | Valid Account File: 1000000 2000000 0000000 | ERROR Please enter a positive number | None |
| ATM: Daily total cannot exceed 5000\$ for any given account | R8T9 | Machine Daily Account Deposit Limit Validation | | violate_daily | ATM: Violate 5000\$ account limit | login machine deposit 1000000 200000 deposit 1000000 200000 deposit 1000000 1000001 | Valid Account File: 1000000 2000000 0000000 | ERROR Deposit exceeds daily limit for account | None |
| Withdraw | | | | | | | | | |
| | R9T1 | Withdrawal Account Format Validation | account_format | reject_invalid | Reject invalid account # format | login agent withdraw 1 | Valid Account File: 1000000 2000000 0000000 | ERROR Please enter a valid account number | None |
| | R9T2 | | | reject_alpha | Reject alphabetical account input | login agent withdraw ABCDEFG | Valid Account File: 1000000 2000000 0000000 | ERROR Please enter a valid account number | None |
| | R9T3 | Withdrawal Account Existence Validation | account_existence | reject_nonexistent | Reject non-existent account # | login agent withdraw 3000000 | Valid Account File: 1000000 2000000 0000000 | ERROR Account number does not exist | None |

| Requirement | ID | Group | Group Short Name | Name | Purpose | Console Input | File Input | Console Output | File Output |
|--|-------|--|---------------------------------|--------------------|--|--|--|---|--|
| No further transactions should be accepted on a deleted account | R9T4 | Withdrawal Account Existence Validation | | reject_deleted | Reject deleted account | login agent delacct 1000000 TEST withdraw 1000000 | Valid Account File: 1000000 2000000 0000000 | ERROR Account number does not exist | None |
| 0000000 is a special account and cannot be used. Decision to let users use account 0000000 to cancel a transaction | R9T5 | Withdrawal Account Cancel Verification | transaction_cancel | transaction_cancel | Cancel withdrawal | login agent withdraw 0000000 logout | Valid Account File: 1000000 2000000 0000000 | OK - Transaction Cancelled | Transaction Summary: EOS 0000000 000 0000000 *** |
| Agent: Reject withdrawals above 999,999.99\$ | R10T1 | Agent Withdrawal Limit Validation | transaction_limits (agent) | upper | Agent: Test withdraw limit upper bound | login agent withdraw 1000000 99999999 logout | Valid Account File: 1000000 2000000 0000000 | ОК | Transaction Summary: WDR 0000000 99999999 10000000 *** EOS 0000000 000 0000000 *** |
| | R10T2 | | | lower | Agent: Test withdraw limit lower bound | login agent withdraw 1000000 0 logout | Valid Account File: 1000000 2000000 0000000 | OK - Transaction Cancelled | Transaction Summary: EOS 0000000 000 0000000 *** |
| | R10T3 | | | violate_upper | Agent: Violate limit upper bound | login agent withdraw 1000000 100000000 | Valid Account File: 1000000 2000000 0000000 | ERROR Withdrawal amount exceeds limit | None |
| | R10T4 | | | violate_lower | Agent: Violate limit lower bound | login agent withdraw 1000000 -1 | Valid Account File: 1000000 2000000 0000000 | ERROR Please enter a positive amount | None |
| ATM: Reject withdrawals above 1000\$ | R10T5 | Machine Withdrawal Limit Validation | transaction_limits (machine) | upper | ATM: Test withdraw limit upper bound | login machine withdraw 1000000 100000 logout | Valid Account File: 1000000 2000000 0000000 | ОК | Transaction Summary: WDR 0000000 100000 1000000 *** EOS 0000000 000 0000000 *** |
| | R10T6 | | | lower | ATM: Test withdraw limit lower bound | login machine withdraw 1000000 0 logout | Valid Account File: 1000000 2000000 0000000 | OK - Transaction Cancelled | Transaction Summary: EOS 0000000 000 0000000 *** |
| | R10T7 | | | violate_upper | ATM: Violate limit upper bound | login machine withdraw 1000000 100001 | Valid Account File: 1000000 2000000 0000000 | ERROR Withdrawal amount exceeds limit | None |
| | R10T8 | | | violate_lower | ATM: Violate limit lower bound | login machine withdraw 1000000 -1 | Valid Account File: 1000000 2000000 0000000 | ERROR Please enter a positive number | None |
| ATM: Daily total cannot exceed 5000\$ for any given account | R10T9 | Machine Daily Account Withdrawal Limit Validation | | violate_daily | ATM: Violate 5000\$ account limit | login machine (repeat 4x) withdraw 100000 100000 (repeat end) withdraw 1000000 100001 | Valid Account File: 1000000 2000000 0000000 | ERROR Withdrawal amount exceeds daily limit for account | None |

| Requirement | ID | Group | Group Short Name | Name | Purpose | Console Input | File Input | Console Output | File Output |
|--|--------|--|-------------------------------|------------------------|--|--|--|---|--|
| Transfer | | | | | | | | | |
| Check that bouth Account #s are valid | R11T1 | Transfer Account Format Validation | account_format | reject_invalid_src | Reject invalid account # format (from) | login agent transfer 1 | Valid Account File: 1000000 2000000 0000000 | ERROR Please enter a valid account number | None |
| | R11T2 | | | reject_invalid_dst | Reject invalid account # format (to) | login agent transfer 1000000 | Valid Account File: 1000000 2000000 0000000 | ERROR Please enter a valid account number | None |
| | R11T3 | | | reject_alpha_srt | Reject alphabetical account input (from) | login agent transfer ABCDEFG | Valid Account File: 1000000 2000000 0000000 | ERROR Please enter a valid account number | None |
| | R11T4 | | | reject_alpha_dst | Reject alphabetical account input (to) | login agent transfer 1000000 ABDEFG | Valid Account File: 1000000 2000000 0000000 | ERROR Please enter a valid account number | None |
| | R11T5 | Transfer Account Existence Validation | account_existence | reject_nonexistent_src | Reject non-existent account # (from) | login agent transfer 3000000 | Valid Account File: 1000000 2000000 0000000 | ERROR Account number does not exist | None |
| | R11T6 | | | reject_nonexistent_dst | Reject non-existent account # (to) | login agent transfer 1000000 3000000 | Valid Account File: 1000000 2000000 0000000 | ERROR Account number does not exist | None |
| No further transactions should be accepted on a deleted account | R11T7 | Transfer Account Existence Validation | | reject_deleted_src | Reject deleted account (from) | login agent delacct 1000000 TEST transfer 1000000 | Valid Account File: 1000000 2000000 0000000 | ERROR Account number does not exist | None |
| | R11T8 | | | reject_deleted_dst | Reject deleted account (to) | login agent delacct 2000000 TEST transfer 1000000 2000000 | Valid Account File: 1000000 2000000 0000000 | ERROR Account number does not exist | None |
| Don't transfer money to same account | R11T9 | | account_diff | reject_same | Reject from and to being same account | login agent transfer 1000000 1000000 | Valid Account File: 1000000 2000000 0000000 | ERROR Source and destination accounts must be different | |
| 0000000 is a special account and cannot be used. Decision to let users use account 0000000 to cancel a transaction | R11T10 | Transfer Account Cancel Verification | transaction_cancel | transaction_cancel_src | Cancel transfer (from) | login agent transfer 0000000 logout | Valid Account File: 1000000 2000000 0000000 | OK - Transaction Cancelled | Transaction Summary: EOS 0000000 000 00000000 *** |
| | R11T11 | | | transaction_cancel_dst | Cancel transfer (to) | login agent transfer 1000000 0000000 logout | Valid Account File: 1000000 2000000 0000000 | OK - Transaction Cancelled | Transaction Summary: EOS 0000000 000 00000000 *** |
| Agent: Reject withdrawals above 999,999.99\$ | R12T1 | Agent Transfer Limit Validation | transaction_limits (agent) | upper | Agent: Test transfer limit upper bound | login agent transfer 1000000 2000000 99999999 logout | Valid Account File: 1000000 2000000 0000000 | ОК | Transaction Summary: XFR 1000000 99999999 2000000 *** EOS 0000000 000 00000000 *** |

| | ID | Group | Group Short Name | Name | Purpose | Console Input | File Input | Console Output | File Output |
|--|-------|--|---------------------------------|--------------------|---|--|--|---|--|
| | R12T2 | | | lower | Agent: Test withdraw limit lower bound | login agent transfer 1000000 20000000 0 logout | Valid Account File: 1000000 2000000 0000000 | OK Transaction Cancelled | Transaction Summary: DEP 1000000 000 20000000 *** EOS 0000000 000 0000000 *** |
| | R12T3 | | | violate_upper | Agent: Violate limit upper bound | login agent transfer 1000000 2000000 100000000 | Valid Account File: 1000000 2000000 0000000 | ERROR Transfer amount exceeds limit | None |
| | R12T4 | | | violate_lower | Agent: Violate limit lower bound | login agent transfer 1000000 2000000 -1 | Valid Account File: 1000000 2000000 0000000 | ERROR Please enter a positive amount | None |
| TM: Reject transfers above 10,000\$ | R12T5 | Machine Transfer Limit Validation | transaction_limits (machine) | upper | ATM: Test transfer limit upper bound | login machine transfer 1000000 2000000 1000000 logout | Valid Account File: 1000000 2000000 0000000 | ОК | Transaction Summary: XFR 1000000 10000000 2000000 *** EOS 00000000 000 0000000 *** |
| | R12T6 | | | lower | ATM: Test withdraw limit lower bound | login machine transfer 1000000 2000000 0 logout | Valid Account File: 1000000 2000000 0000000 | ОК | Transaction Summary: XFR 1000000 000 2000000 *** EOS 0000000 000 0000000 *** |
| | R12T7 | | | violate_upper | ATM: Violate limit upper bound | login machine transfer 1000000 2000000 1000001 | Valid Account File: 1000000 2000000 0000000 | ERROR Transfer amount exceeds transfer limit | None |
| | R12T8 | | | violate_lower | ATM: Violate limit lower bound | login machine transfer 1000000 2000000 -1 | Valid Account File: 1000000 2000000 0000000 | ERROR Please enter a positive number | None |
| TM: Daily total cannot exceed 5000\$ for ny given account | R12T9 | Machine Daily Account Transfer Limit Validation | | violate_daily | ATM: Violate 10000\$ account transfer limit | login machine transfer 1000000 20000000 10000000 transfer 10000000 20000000000000000000000000000 | Valid Account File: 1000000 2000000 0000000 | ERROR Transfer amount exceeds daily limit for account | None |
| Account List Login | | | | | | | | | |
| each line is exactly 7 numbers | R13T1 | Invalid Accounts Login | invalid_list | reject_invalid | Reject list with invalid account number | login machine | Invalid Account File: 1 0000000 | ERROR Invalid Account in Account List | None |
| lo accounts can start with 0 | R13T2 | Invalid Accounts Login | | reject_zero_prefix | Reject list with invalid account number | login machine | Invalid Account File 2: 01111111 00000000 | ERROR Invalid Account in Account List | None |
| The list ends w/ special account 0000000 | | Invalid Accounts Login | | reject_missing | Reject list with invalid file terminator | login machine | Invalid Account File 3: 1000000 | ERROR Invalid Account File | None |
| lead account list on login | R13T4 | Empty Accounts Login | empty_list | login | Reject non-existent account file | login machine | None | ERROR Account file is non-existent | None |

| Requirement | ID | Group | Group Short Name | Name | Purpose | Console Input | File Input | Console Output | File Output |
|---|----------------------|--|-------------------------|---|--|---|---------------------------------|---------------------------------------|--|
| complete transactions with, don't ask for an account and return to main menu | R13T5 | Empty Accounts Withdraw | | withdraw | Reject withdraw if no accounts available | login agent withdraw | Empty Account File: 00000000 | ERROR No accounts to withdraw from | None |
| | R13T6 | Empty Accounts Deposit | | deposit | Reject deposit if no accounts available | login agent deposit | Empty Account File: 00000000 | ERROR No accounts to deposit to | None |
| | R13T7 | Empty Accounts Transfer | | transfer | Reject transfer if no accounts available | login agent transfer | Empty Account File: 00000000 | ERROR No accounts to transfer from | None |
| | R13T8 Empty Accou | Accounts Delete | deleteacct | | login agent deleteacct | Empty Account File: 0000000 | ERROR No accounts to delete | None | |
| | R13T9 | Empty Accounts Create | | createacct | Accept createacct if no accounts in list | login agent createacct 1000000 TEST logout | Empty Account File: 0000000 | ОК | Transaction file: NEW 1000000 000 0000000 TEST EOS 0000000 000 0000000 *** |
| Fransaction Output Fest | | | | | | | | | |
| ransaction codes must be one of IEW, DEL, WDR, DEP, XFR, EOS | R14T1 | Transaction Code Verification | codes | validate | Verify all codes in output files are valid | None | All generated transaction files | ОК | None |
| ransaction file must end with EOS line | R14T2 | Transaction End Code Verification | | eos | Ensure the last code is EOS | None | All generated transaction files | ОК | None |
| Inused fields must be filled with laceholder strings | R13T3 | Transaction Placeholder Verification | placeholders | Transaction Placeholder Verification | Verify all placeholder values in the transaction file are either 000000 for accounts, 000 for amounts, and *** for names | None | All generated transaction files | ОК | None |