1. **Test Overview**

1.1 Purpose of preparation

This test report is the test report of Bitshares Molibe APP. The purpose of this test report is to summarize the test situation and analyze the test results in the test phase, describe whether the system meets the requirements of users, whether the functions can achieve the expected goals and execute accurately, and analyze the test quality.

Test report reference documentation is available to users, testers, developers, project managers, other managers, and community members who need to read this report.

1.2 Test scope

Testing is mainly carried out according to the planned design route and the actual operation of the users, including functional testing, performance testing, security, user interface testing and compatibility testing, while unit testing and integration testing are performed by the developers.

**1. Test Plan Implementation**

**2.1 Type of test**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Type | Test Content | Test purposes | Test tools and methods used |
| Function test | Registration, Login, Backup, Log Off, Transaction Pair Search Add, Transaction Buy, Transaction Sell, Transfer, Voting, Mortgage Loan, Purse File Import into Common Account, Purse File Import into Oversigned Account, Initiate Proposal, Proposal Approval, Proposal Cancellation | Verify that all functions have been properly implemented and that the software can be used as required by the user:  1.Function Process Verification: Whether each function operation is effective or not. Try a variety of special operations to find bugs that might exist.  2.Data and Content: Display information and data accurately. Prompt content description correct. | Adopt Black-Box Testing test, boundary value test, equivalence class partition and other test methods to carry out manual test |
| User interface testing | Page Structure: Including menu, background, color, font, button, Title, prompt consistency, etc  Friendliness, ease of use, reasonableness, consistency, correctness | Verify that the software style conforms to acceptable standards and that the user interface is user friendly, easy to operate, and consistent with user operating habits | Manual test |
| Security Test | Registration, Login, Log Off  The account is loc after that proces stops | 1.Application-level security: Verify that users can only operate on features that they have permissions to operate on  2.The import and backup of wallet files tests a variety of network environments. | Black-Box Testing test,  Manual test |
| Performance Test | 1.Registration, Login Response Speed  2.Switching response speed of each functional module | 1. Verify the stability of software performance under the condition of multi-data push and multi-program running of mobile phone, without causing program crash or related abnormal phenomena. | Black-Box Testing test,  Manual test |

**2.2 Test Environment and Configuration**

|  |  |
| --- | --- |
| Equipment name | iPhone 8 plus，iPhone 7，iPhone 6 plus  Vivo x9，Vivo x9s plus，Honor V9，MI MAX，Huawei mate8 |
| Equipment system | IOS 11.4.1，IOS 12.1.2，Android 7.1.2、7.0、8.1.0 |
| Network environment | China Telecom 4G, China Telecom WiFi, Starbucks Public WiFi |
| Software version number | V1.5.0.0103 |

**2.3 Testers**

|  |  |  |
| --- | --- | --- |
| Title | Name: | E-mail |
| Development engineer | Xiao Xia | contact@btsplusplus.com |
| Test By | Yang |

**3. Registration**

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| **Test Equipment** | **Network Status** | **Test method** | **Account No. Mode** |
| IPhone,Huawei  Vivo,MI | 4G, public WiFi, home WiFi | Adopt Black-Box Testing test, boundary value test, equivalence class partition and other test methods to carry out manual test | Wallet mode, private key mode, account mode |

**3.1 Wallet Mode Registration**

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| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. Enter the account number and wallet password to register the wallet mode. | Implemented | PASS |
| 2. Click Cancel No Backup after logging out prompt to complete the local backup operation automatically. Click Backup Tip Non-wifi Network Environment Not Supported | Prompted | PASS |
| 3. Incorrect format of the account number entered for registration prompt "Incorrect format of account number, please re-enter" | Prompted | PASS |
| 4. Register to detect duplicate account name and prompt: "Name already exists, please re-enter". (Reminder is located below the software) | Prompted | PASS |
| 5. That password enter in the registration is not in the correct format, and the reminder "the password is not in the correct format, please re-enter it". Normal. | Prompted | PASS |
| 6. Registration password input is inconsistent twice, reminding "Password input twice is inconsistent, please re-enter" | Prompted | PASS |
| 7. Click Registration Account Number, and fill in Help Question Number with Password. Skip to normal. | Prompted | PASS |
| 8. Terms of Service View | Implemented | PASS |

**3.2 Account Mode Registration**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. The incorrect account number format input by registration prompts "The account number format is incorrect, please re-enter". | Prompted | PASS |
| 2 Prompt after registration to detect duplicate account name: "Account name already exists, please re-enter" | Prompted | PASS |
| 3. Password input is not in the correct format. Remind "Password is not in the correct format. Please re-enter it" | Prompted | PASS |
| 4. Registration password input is inconsistent twice, reminding "Password input twice is inconsistent, please re-enter" | Prompted | PASS |
| 5. Click the Registration Account to fill in the Help Question Mark section, and it will be displayed normally. | Implemented | PASS |
| 6. Click the Registration Password to fill in the Help Question Mark section, which displays OK. | Implemented | PASS |
| 7. Click on the Terms of Service jump to display it correctly. | Implemented | PASS |

**4. Login section**

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| --- | --- | --- | --- |
| **Test Equipment** | **Network Status** | **Test method** | **Account No. Mode** |
| IPhone,Huawei,  Vivo,MI | 4G, public WiFi, home WiFi | Use Black-Box Testing test for manual test | Account Mode, Wallet Mode, Private Key Mode |

**4.1 Account Mode Login**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. Login succeeded after inputting valid account number and correct password. Enter multi-password account test login succeeded. | Implemented | PASS |
| 2. Enter the account number that does not exist and prompt "Account number does not exist" to display normal. | Prompted | PASS |
| 3. Enter the account number and password registered in wallet mode, and prompt "Password is incorrect, please re-enter". | Prompted | PASS |
| 4. Click the Grey Delete button at the end of the account and password to clear the current content that has been entered. | Implemented | PASS |
| 5. Enter the account number mode account number, enter the wrong password, and open the transaction password: the input format is incorrect. Click Login Prompt: "The format of the transaction password is incorrect, please re-enter" to detect the format of the transaction password first. | Prompted | PASS |
| 6. Click Help Question Mark to display format description of transaction password | Implemented | PASS |

**4.2 Wallet mode login**

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| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1, input that ip address correspond to the wallet mode in the chrome browser of the PC terminal unde the condition of the same home WiFi. Connected successfully. | Implemented | PASS |
| 2. Display the Import Backup interface. Up to the corresponding bin file At that mobile terminal, the correspond bin file is displayed, and the wallet password is enter, and the login is successful. | Implemented | PASS |
| 3. After the keyboard appears in the wallet mode login input interface, it cannot be canceled in the current interface. | To be optimized | Submit optimization |
| 4. Add non-bin file Enter wallet password prompt "Invalid wallet file or incorrect password" | Prompted | PASS |
| 5. Click on wallet bin file to enter wallet password error prompt "wallet file is invalid or password is incorrect" | Prompted | PASS |
| 6. No password prompt "Please enter a password" | Prompted | PASS |
| 7, that mobile device switch to exit the import interface waiting for teste, test 1: the ip address cannot be opened. Test 2: open ip address invalid | Invalidated | PASS |
| 8, aft logging out switch other wallet bin file login test normal. | Implemented | PASS |
| 9. Trying to enter ip unreachable in starbucks public wifi scenario | Invalid | PASS |
| 10, 4G network import prompt "initialization upload failed, only support to import wallet under wifi network" display normal. | Prompted | PASS |
| Existing bin files on the 11, 4G network are logged into the wallet mode normally. | Implemented | PASS |

**4.3 Private key mode login**

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| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. Enter the correct private key and set the transaction password to log in normally. | Implemented | PASS |
| 2. Wrong private key "private key data is invalid, please re-enter" private key prompt for input account permission "private key data is invalid, please re-enter" | Prompted | PASS |
| 3. Copy and paste private key feasible | Implemented | PASS |
| 4. Incorrect format of transaction password input prompt "Incorrect format of transaction password, please re-enter" | Prompted | PASS |
| 5. Click the private key of funds, and the help question mark button after the transaction password jumps to indicate that it is OK. | Implemented | PASS |
| 6. Automatically backup bin files aft logging out of private key mode. Both 4G and wifi modes are valid for execution. | Implemented | PASS |
| 7. Try to import the bin files that are automatically backed up locally in private key mode. Login succeeded | Implemented | PASS |

**5. Logoff function**

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| --- | --- | --- | --- |
| **Test Equipment** | **Network Status** | **Test method** | **Account No. Mode** |
| IPhone,Huawei,  Vivo,MI | 4G, public WiFi, home WiFi | Use Black-Box Testing test for manual test | Account Mode, Wallet Mode, Private Key Mode |

**5.1 Cancellation of account number**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. The Logoff reminder menu in any mode appears normal. The pop-up prompt is OK. Clicking Cancel will terminate the logout behavior. Click OK to log out. | Implemented | PASS |
| 2. If that current account mode is wallet mode or private key mode, the bin file will be automatically bac up to the local device after logoff. 4G network, WiFi network valid. | Implemented | PASS |
| 3. Logging out of the automatically backed up bin file automatically updates the overwrite | Implemented | PASS |

6. Backup Functions

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Equipment** | **Network Status** | **Test method** | **Account No. Mode** |
| IPhone,Huawei,  Vivo,MI | 4G, public WiFi, home WiFi | Use Black-Box Testing test for manual test | Account Mode, Wallet Mode, Private Key Mode |

**6.1 Backup wallet**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Content** | **Status** | | **Test Results** | |
| 1, the backup function can only be performed under wifi networks | Implemented | | PASS | |
| 2, that t equipment is under the same home WiFi network. PC successfully connected with mobile ip using chrome input. The PC shows that the binary file already exists in the mobile terminal is normal. PC Endpoint Click Download Button Operates Normally. Download successful. Reverse Operation Import New Software Attempt to log in valid. | Implemented | | PASS | |
| 3. Trying to enter ip unreachable in starbucks public wifi scenario | | Not implemented | | Test Failed |

**7. Comprehensive function test**

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| --- | --- | --- | --- |
| **Test Equipment** | **Network Status** | **Test method** | **Account No. Mode** |
| IPhone,Huawei,  Vivo,MI | 4G, public WiFi, home WiFi | Adopt Black-Box Testing test, boundary value test, equivalence class partition and other test methods to carry out manual test | Wallet mode, private key mode, account mode |

**7.1 Quotation Asset Interface**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. Click to display K line, change circle, day line, time division line, switch to display normally. | Implemented | PASS |
| 2. Zoom in and out normal. | Implemented | PASS |
| 3. Press the K-line column to display the accurate information. | Implemented | PASS |
| 4. Various parameters and quantities are displayed correctly. | Implemented | PASS |
| 5. Check the transaction depth, trading quantity, price, and volume line to see if they are normal. | Implemented | PASS |
| 6. Check the transaction records, time, direction, price, and quantity to see if they are normal. | Implemented | PASS |
| 7. Click the Favorite button, OK. Click Cancel Favorites again, OK. | Implemented | PASS |
| 8. Gateway Introduction Help Question Mark Click Jump Normal. | Implemented | PASS |

**7.2 Increase and decrease transaction pairs**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. The market interface will be effective after the search asset is opened. | Implemented | PASS |
| 2. Prompt "Up to 20 transaction pairs can be customized" after exceeding the set upper limit. | Implemented | PASS |
| 3, that input content is not limit to include text, symbols and the like. The absence of the asset being searched will prompt for "no result". | Prompted | PASS |
| 4. Click on the transaction pair switch button to turn it on and turn it on to blue, and turn it off to display gray as normal. | Implemented | PASS |
| 5. The names of various gateway assets are displayed correctly. | Implemented | PASS |

**7.3 Trading**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. Trading assets: OPEN.BTC/BTS, GDEX.BTC/BitCNY, GDEX.EOS/BitCNY, BitUSD/BTS, cancel, buy and sell. | Implemented | PASS |
| 2. Buy one and sell one at a price that is normal. | Implemented | PASS |
| 3, Enter quantity, price skip numeric keyboard normal. | Implemented | PASS |
| 4. Percentage of clicked quantity: 25%, 50%, 100% all operate normally. | Implemented | PASS |
| 5. Available amount is displayed normally. Transaction volume indicates normal. | Implemented | PASS |
| 6. The uncompleted part enters the current entrustment interface. Normal. Click the Undo function. Normal. | Implemented | PASS |
| 7. Prompt "Order placed successfully and order number" is normal after successful purchase. | Implemented | PASS |
| 8. Click All for the current delegate. Enter the order management interface. Normal. | Implemented | PASS |
| 9. Current Order, Historical Order Display Status, Transaction Pair, Time, Quantity, Price, Total Amount. Display data OK. | Implemented | PASS |
| 10. Cancel Order Successfully Prompts "Order Plus Number, Canceled" Normal. | Prompted | PASS |
| 11. Input quantity "0" in the trading interface indicates that "Please enter quantity" is normal. | Implemented | PASS |
| 12. The execution fails when the current amount or quantity is insufficient to buy or sell. The prompt is normal. | Implemented | PASS |
| 13. Try entering the minimum number of transactions. Minimum quantity limits vary for different asset values. Too low a turnover indicates "too low a turnover" | Prompted | PASS |
| 14. Try entering the minimum transaction unit price. Minimum price limits vary for different asset values. Too low a turnover indicates "too low a turnover" | Prompted | PASS |
| 15. Click the Five Star button in the upper right corner of the buy interface to save it. Prompt Add AutoSelect Successful is OK. | Prompted | PASS |
| 16. Slide left and right to switch the buying and selling interface. Normal. | Implemented | PASS |
| 17. The current order display in the trading interface is normal. | Implemented | PASS |

**7.4 Mortgage loans**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. The interface displays Feed Price, Strong Flat Price, Available Balance, Mortgage Rate, Asset Selection, and Reset Normal | Implemented | PASS |
| 2. Click the Reset button and select the asset function is normal. | Implemented | PASS |
| 3. Select the asset cny to adjust mortgage, test the maximum repayment, and all mortgage functions are normal. | Implemented | PASS |
| 4. Enter normal loan amount and collateral quantity. Adjustment of debt position normal | Implemented | PASS |
| 5. Drag mortgage rate, available balance color, number, BTS color, number, mortgage rate number, color data changes with drag. Normal | Implemented | PASS |
| 6. The drag target mortgage rate below 1.75 will not be displayed. 1.75 Above drag change number is normal | Implemented | PASS |
| 7. Click Help Question Mark to skip Feed Price, Mortgage Rate and Target Mortgage Rate to introduce the contents of the Help interface. Normal | Implemented | PASS |
| 8. On the premise of no change in the collateral and loan amount. Click Adjustment Debt Position to prompt "Loan quantity and collateral have not changed" as normal | Prompted | PASS |
| 9. The operation fails to adjust the mortgage rate until the collateral is insufficient. The prompt "Collateral balance is insufficient, please adjust the quantity" is normal. | Prompted | PASS |
| 10. Select Asset USD to enter the mortgage quantity and click All Mortgages. Prompt "Request failed, please try again later" (BitUSD is Black Swan Asset) | Prompted | Test failed |
| 11 Asset selection EUR, JPY, KRW Adjustment Bond Position Normal. | Implemented | PASS |

**8. Service Interface**

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| --- | --- | --- | --- |
| **Test Equipment** | **Network Status** | **Test method** | **Account No. Mode** |
| IPhone,Huawei,  Vivo,MI | 4G, public WiFi, home WiFi | Adopt Black-Box Testing test, boundary value test, equivalence class partition and other test methods to carry out manual test | Wallet mode, private key mode, account mode |

**8.1 Transfer**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. Click Transfer to enter the transfer interface with normal function | Implemented | PASS |
| 2. Click Send to Account Enter Account to display the search results. Favorite follow-up account information is normal | Implemented | PASS |
| 3. Attempt to transfer funds to yourself, prompting "Collection account number and transfer account number cannot be the same" is normal | Prompted | PASS |
| 4. Transfer Assets displays owned assets, and click Asset Change. Normal | Implemented | PASS |
| 5. Toggle the Asset Display Asset Balance to Display the Available Quantity Normally | Implemented | PASS |
| 6, click the input quantity to jump to the numeric keypad, and the input numeric correspondence is correct. Normal | Implemented | PASS |
| 7. After entering the over-owned quantity, you will be prompted that the "insufficient quantity" is normal. | Implemented | PASS |
| 8. Add Chinese, English, Emotions, Symbols, Japanese. Input OK | Implemented | PASS |
| 9. Click Transfer Jump to confirm the transaction interface. Send Successfully After Confirmation | Implemented | PASS |
| 10. Transfer the account with an account number that does not have a comment private key and make a comment. The prompt "No comment private key information, no comment is supported" is OK. | Prompted | PASS |
| 11. Check the transfer receipt account number to confirm receipt of the transfer, but no comments are displayed. | Implemented | Notes Not Displayed |

**8.2 Voting**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. Click on the voting interface to enter. Normal. | Implemented | PASS |
| 2. Slide Toggle Witnesses, Council, Budget Item. Normal. | Implemented | PASS |
| 3. Displays the account number, total number of votes, project name, creator, expiration date, worker type of the corresponding voting object, and ranks normally. | Implemented | PASS |
| 4. Click on voting objects, council, witnesses, budget items, lighted text and checkbox icons to show significant changes | Implemented | PASS |
| 5. Click Introduction to jump to the corresponding website. Normal. | Implemented | PASS |
| 6. Click the question mark help interface to jump to the corresponding solution interface. Normal. | Implemented | PASS |
| 7. Click Reset Interface to reset the voting status when entering the voting interface. Normal. | Implemented | PASS |
| 8. Click to vote with no change of voting object to prompt "No change of voting information, no need to submit" | Prompted | PASS |
| 9. Submit a changed voting operation. Execution successful. | Implemented | PASS |
| 10. Click Set Agent to enter the Select Agent Account interface. Search Bar Search OK. Focus Account Show Normal. | Implemented | PASS |
| 11, click that correspond agent prompt "set agent succeeded". The voting interface displays the proxy voter ID. Click on the polling agent to help the question mark jump normal. | Prompted | PASS |
| 12. If there is a proxy set, clicking on the voting interface will prompt "Do you have a voting proxy set, manually editing the voting information will cancel the proxy and continue voting?" Normal. Click OK to cancel delegate and click Cancel Termination. Normal. | Prompted | PASS |

**8.3 Account Inquiry**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. Click Account Query to jump to enter. Show Favorite Accounts. | Implemented | PASS |
| 2. Enter the valid account name in the input box, and automatically retrieve and display the account number. | Implemented | PASS |
| 3, that name and numb of the search account are displayed. | Implemented | PASS |
| 4. Click {cs6f729cf6lang1024} Account Jump No. {cs6f729cf6lang1024} to select {cs6f729cf6lang1024} Asset {cs6f729cf6lang1024} interface. | Implemented | PASS |
| 5. The details and asset interface can be switched to view the operation by sliding. | Implemented | PASS |
| 6. Click the Favorite button in the upper right corner to validate. Click Cancel again to validate. Prompt for Focus Success or Cancel Focus | Prompted | PASS |

**8.4 Mortgage Ranking**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. Click Mortgage Ranking to enter the Mortgage Ranking interface. Normal. | Implemented | PASS |
| 2, that fee information is displayed to be normal. The question mark help button jumps to the corresponding feed price description is normal. | Implemented | PASS |
| 3. Look at that mortgage rankings USD show that there are no users to mortgage. | Implemented | PASS |
| 4. CNY mortgage ranking displays contents, account number, Qiangping departure price, mortgage rate, borrowed CNY quantity and mortgage BTS quantity. Normal. | Implemented | PASS |
| 5. Click any account to jump to the asset interface of this account. Normal. | Implemented | PASS |

**8.5 Feed Details**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. Click Feed Price Details to enter the Feed Price Details interface. Normal. | Implemented | PASS |
| 2. The name of the witness, current feeding price, feeding price data, median deviation rate and release time of the interface information are displayed normally. | Implemented | PASS |
| 3. Witnesses who do not publish a feed price are shown in gray. Normal. | Implemented | PASS |
| 4. Click the Help Question Mark button to jump to the introduction of the corresponding price feeding instructions. Normal. | Implemented | PASS |
| 5. Slide left and right to see that the USD and CNY feed price switching information is normal. | Implemented | PASS |

**9. My Menu Interface**

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| --- | --- | --- | --- |
| **Test Equipment** | **Network Status** | **Test method** | **Account No. Mode** |
| IPhone,Huawei,  Vivo,MI | 4G, public WiFi, home WiFi | Adopt Black-Box Testing test, boundary value test, equivalence class partition and other test methods to carry out manual test | Wallet mode, private key mode, account mode |

**9.1 My Assets**

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| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. Click to enter my asset interface. Normal. | Implemented | PASS |
| 2. Display the total assets conversion, asset name, available quantity, document hanging, transfer and transaction. | Implemented | PASS |
| 3. The test setting interface changes the pricing method, converting the assets and total assets, and changing the pricing unit, which is effective. | Implemented | PASS |
| 4. Click Transfer to jump to the Transaction interface and Transfer interface by pressing the Transaction function button. Normal. | Implemented | PASS |
| 5. Slide left and right to toggle the Asset and Detail interface. Normal. | Implemented | PASS |
| 6. The details interface displays transaction purchase and sale, transfer, adjustment of bond position, and creation of cancellation order history. Normal. | Implemented | PASS |

**9.2 Order Management**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. Click Order Management Page Switch. Normal. | Implemented | PASS |
| 2. The current purchase and sale order is displayed in the order management interface. "No orders currently available" is displayed without an order on hand. Normal. | Displayed | PASS |
| 3. Slide left and right to toggle the current order and historical order interfaces. Normal. | Implemented | PASS |
| 4. The history order interface displays the order information of the history purchase and sale. Selling currency, transaction pair, price, quantity and total amount (displayed in legal currency corresponding to transaction pair at the time of closing) are displayed normally. | Implemented | PASS |
| 5, view that warehouse receipt with the display content pop, the active sale receipt, and the color distinction of the purchase order is normal. | Displayed | PASS |

**9.3 WALLET & OVERSIGN**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. The account mode test cannot be used, prompting "Multi-sign function only supports wallet mode, whether to create local wallet file for current account". Click "Cancel" to terminate. Click OK to enter the Upgrade Wallet Mode interface and set the wallet password. | Implemented | PASS |
| 2, upgrade that wallet mode interface, and enter the correct password to upgrade successfully. | Implemented | PASS |
| 3. Upgrade the wallet mode interface. Enter the wrong password or setting and the wrong format fails. The prompt will be displayed normally. | Implemented | PASS |
| 4. Private key mode and wallet mode Click on wallet-multi-check to enter the interface. Normal. | Implemented | PASS |
| 5. The wallet-multi-sign interface displays the account name, permission and color distinction status. The normal distinction is obvious. | Implemented | PASS |
| 6. Click Import More Account Numbers to open Import Multi-signed Account Numbers and Import Common Account Selection. Normal. | Implemented | PASS |
| 7. Click Import Multi-sign Account Entry Search Corresponding to Multi-sign Account to Import Successfully. Importing non-oversigned account number prompts "An account number is not oversigned account number and cannot be imported". Normal. | Implemented | PASS |
| 8. Click Import Common Account, and the jump account number mode login interface can be switched to the private key mode login interface by sliding. Normal. | Implemented | PASS |
| 9. Import the common account number, enter the account number and password, and click Login Import immediately. | Implemented | PASS |
| 10, import that private key mode of the common account, enter the correct private key, and then click login and import immediately to finish. | Implemented | PASS |
| 11, test error message login, failed. Prompt Content Display Normal. | Prompted | PASS |
| 12. Click the Private Key Mode Question Mark Help button to jump to the corresponding question interface normally. | Implemented | PASS |
| 13, teste different login modes import of that same account number. The same account number is displayed and permissions in both modes are merged. Normal. | Implemented | PASS |
| 14. Test the setup of the current account and delete the account in the wallet file. Normal. | Implemented | PASS |
| 15. Delete wallet & oversign the unique account in the wallet. Failed. Prompt "Keep at least one account in wallet" cannot be deleted. Normal. | Prompted | PASS |
| 16, click the backup wallet, jump to the backup wallet interface, display ip and the current wallet bin file. Normal. | Implemented | PASS |
| 17, aft logging out, log into that wallet of the multi-account numb again, and enter the password of the wallet as the password of the first wallet mode account at the beginning. Login succeeded. | Implemented | PASS |
| 18, Wallet-Multiple checks automatically back up the latest wallet files after logging off. | Implemented | PASS |

**9.4 Proposal Management**

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| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. Click Proposal Management to enter the proposal management interface. Normal. | Implemented | PASS |
| 2. Displays all proposals received for all accounts currently in your wallet. Normal. | Implemented | PASS |
| 3. Display proposal number, target account number, origination account number, status, authorization progress, authorization account number, authorization status, and proposal content. Content display normal. | Implemented | PASS |
| 4. The authorization and approval operation of the account with permissions was successfully tested. Accounts with multiple privileges are optional when approving this wallet file. | Implemented | PASS |
| 5. Test the unauthorized account for permission approval. The prompt "You do not have any permission to perform the approval operation" is normal. | Prompted | PASS |
| 6. Handling fee account number The account number for paying the handling fee is the account number with the private key of the fund in the wallet, which can be selected by yourself. Prompt for authorization approval succeeded after submission. | Implemented | PASS |
| 7. Testing Authorization Withdrawal for Authorized Proposals. Success. | Implemented | PASS |

**9.5 Initiation of Proposals**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. When there is no corresponding permission account, a prompt will pop up indicating that there is no permission to operate and ask whether to initiate proposal transaction. Terminate after clicking Cancel. Click OK to enter the sponsoring proposal interface. Show proposal content. Normal. | Implemented | PASS |
| 2. Initiate Proposal UI. Select a proposal initiation account from the wallet account. Normal selection. | Implemented | PASS |
| 3. Normal submission of proposals. The tests include buy, sell, vote board, vote witness, and vote worker. Operation performed normally. | Implemented | PASS |
| 4. Test proposal sponsor account number, authorization account number, target account number proposal has been received and displayed. | Implemented | PASS |

**9.6 Frequently Asked Questions**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. Click Frequently Asked Questions to enter the QA Help interface. Normal. | Implemented | PASS |
| 2. Slide to see what is displayed. Normal. | Implemented | PASS |

**9.7 Settings**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1, click to enter the setting interface. Normal. | Implemented | PASS |
| 2. Change the pricing methods USD, EUR, JPY, KRW, BTS. View the corresponding change in asset conversion calculation unit in my asset interface. Valid. | Implemented | PASS |
| 3, click on the theme style to change the color pearl white, quiet basket. Change valid Normal. | Implemented | PASS |

**9.8 About**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. Click About to enter the interface. Normal. | Implemented | PASS |
| 2. Including email, website, telegram, WeChat, version number content display is normal. | Implemented | PASS |

**9.9 Account Portrait**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Status** | **Test Results** |
| 1. Click to open the login interface when you are not logged in. | Implemented | PASS |
| 2. Click the account number in login status to view the account information. | Implemented | PASS |
| 3. Click Backup Operation to jump to Backup Interface Normal. | Implemented | PASS |
| 4. Test the validity of the logout function, and a warm prompt will pop up. Cancel and make sure the buttons are active. | Implemented | PASS |

**10. Deduction risk**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Whether to deduct fees** | **Comments** |
| Connect Network | Possible deduction | Connections to 2G, 3G, 4G and WIFI networks are subject to a fee (charged by the operator) |

**11. Risk of privacy breach**

|  |  |  |
| --- | --- | --- |
| **Test Content** | **Leak or not** | **Comments** |
| Access to mobile information | No | APP temporarily has no functionality or requirements to access mobile phone information |
| Access Address Book Information | No | APP temporarily does not have any functionality or requirements to access address book information |
| Permission Verification | No | Photo, modify or delete SD card content, read SD card content |

**12. Installation Testing**

|  |  |
| --- | --- |
| **Test Content** | **Test Results** |
| Trial run after the App installation is complete, the software can be opened normally | Yes |
| App open test, is there a load status progress prompt | Yes |
| App Open Speed Test, Is the Speed Considerable | Yes |
| Whether the switching between App pages is smooth and the logic is correct | Yes |

**13. APP update**

|  |  |
| --- | --- |
| **Test Content** | **Test Results** |
| 1. Update prompt when the client has a new version | Yes |
| 2. When the client has a new version, if the client is not deleted locally, check whether the update is normal or not by updating directly | No |

**14. Unloading**

|  |  |
| --- | --- |
| **Test Content** | **Test Results** |
| Remove the installation folder directly if you are prompted to uninstall | No |
| Test the system for prompts to uninstall the program directly | No |
| Test whether all files are deleted from all installation folders after uninstallation | Yes |
| Testing for unexpected conditions during unloading (e.g., crash, power failure, restart) | No |
| Does the uninstall support cancellation | Yes |

**15. Crossover Event Test**

|  |  |
| --- | --- |
| **Test Content** | **Test Results** |
| Whether multiple Apps are running at the same time affects normal functionality | No |
| Does the App Runtime Pre/Background Switch Affect Normal Functionality | No |
| Does dialing/answering a phone while App is running interfere with normal functionality | No |
| Does the App runtime send/receive information affect normal functionality | No |
| Does the App runtime handoff network (3G, 4G, wifi) affect normal functionality | No |
| Whether browsing the network while App is running affects normal functionality | No |
| Does the use of Bluetooth to send/receive data while App is running affect normal functionality | No |
| Whether the use of camera, calculator and other mobile devices in the App runtime will affect the normal function of the App | No |
| Whether charging during App Runtime affects normal functionality | No |

**16. Graphic Testing**

|  |  |
| --- | --- |
| **Test Content** | **Test Results** |
| Comparing horizontally, the operation mode of each control is uniform | Yes |
| Adaptive interface design, content adapted according to window size | Yes |
| Uniform page label style | Yes |
| Is the page beautiful | Yes |
| The picture quality should be high and the picture size should be as small as possible when the design meets the requirements | Yes |
| The whole interface should not use too many colors | Yes |

**17. Content Testing**

|  |  |
| --- | --- |
| **Test Content** | **Test Results** |
| The input box indicates whether the text is consistent with the system functionality | Yes. |
| Is text length limited | No |
| Whether the meaning of the text is unclear | No |
| Are there any typographical errors | No |
| Whether all information is displayed in both Chinese and English | No |
| Whether all operation menus and interfaces can be displayed in Chinese and English | Yes |

**18. Data security**

|  |  |
| --- | --- |
| **Test Content** | **Test Results** |
| When a password or other sensitive data is entered into an application, it is not stored in the device and the password is not decoded | Wallet files are encrypted and stored |
| The password you enter will not be displayed in clear text | Yes |
| Passwords or other sensitive data will not be stored in their pre-entered locations | No |
| Different mode passwords must be at least 8 characters long and contain upper and lower case letters and numbers. | Yes |
| Backups should be encrypted, recovered data should take into account abnormal communication interruptions in the recovery process, and data should be verified before being reused after recovery. | Yes |
| The application should notify the user or the application to provide a Cancel command before the account is logged off to delete the data | Yes |
| A password is required for re-entry after the application has been interrupted | Yes |
| The Cancel command operation enables its functionality to be fulfilled according to the design requirements | Yes |
| Delete nothing from your personal information management application without the explicit permission of the user | Yes |
| The application reads and writes data correctly | Yes |

**19. Suggestions for improvement**

|  |  |
| --- | --- |
| **Function** | **Content of recommendations** |
| Register Login | account、password format requirements are recommended to be displayed directly in the input box, intuitive, effective |
| Register Login | When registering in account mode, you can set the unlock password directly |
| Register Login | The icon button to clear the account password is not obvious |
| Login | The keyboard that appears for wallet mode login cannot be canceled |
| Login | Input optimization for private key mode. Two-dimensional code |
| Backup | Automatic backup of the same account will overwrite the latest update. Please indicate whether or not. |
| Import Export | Unable to connect for special WiFi network, join note |
| Private key login | The password for private key mode login is the same as the password for the backup bin file wallet. Join Note |
| Asset Add | Whether or not to add text to the switch to add a transaction pair secondary description |
| Asset interface | Whether the total asset calculations are also added with approximate equals |
| Wallet & Sign More | Consider adding custom wallet files and password changes |
| About | Optimize display content and contact information by adding jumps and color discrimination |
| About | Add a reminder with updatable status. Can be updated manually in this interface |
| Android | Test some Android devices to boot the interface without a network, and the boot interface is also stuck after the network connection (Vivo x9) |
| Android | Optimize unified prompt box, prompt icon style and color unification |

**Test Results**

The following test results are given for reference only based on the test synthesis assessment

|  |  |  |
| --- | --- | --- |
| **Sequence number** | **Contents** | **Results** |
| 1 | Test whether all functional parts are available. | Yes |
| 2 | Test equipment, incomplete system, incomplete compatibility test | Yes |
| 3 | Passed the test and allowed to go online | Yes |
| 4 | Details can be optimized and perfected | Yes |
| 5 | Pass the test | Yes |