**Test Book WHC version 0.0.6**

**1. Build Testing Environment**

1. Download software:<https://github.com/copernet/wormhole/releases/tag/Earth-0.0.6-pre-release>
2. Compile and Install

Unix Platform: <https://github.com/copernet/wormhole/blob/master/doc/build-unix.md>

OSX Platform:

<https://github.com/copernet/wormhole/blob/master/doc/build-osx.md>

Windows:

<https://github.com/copernet/wormhole/blob/master/doc/build-windows.md>

1. Operation and data synchronization

For the first time running the 0.0.6 version of the code, use the following command: wormholed -startclean=1-daemon

When the 0.0.6 version is started and the data synchronization is completed, the next time the software is restarted, use the following command: wormholed–daemon

**2. Basic environment preparation**

**1. Create a wallet**

#u1 User creates wallet

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli getnewaddress u1

bchreg:qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz

**2. Burn BCH->WHC**

#burning operation

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_burnbchgetwhc 10

6b8b98f7248f96b168b8127e3eb31cabb00fd6a5eed5df6d012816d7b4335974

#query transaction information（after confirmation）

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_gettransaction 6b8b98f7248f96b168b8127e3eb31cabb00fd6a5eed5df6d012816d7b4335974

{

"txid": "6b8b98f7248f96b168b8127e3eb31cabb00fd6a5eed5df6d012816d7b4335974",

"fee": "4860",

"sendingaddress": "bchreg:qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz",

"referenceaddress": "bchreg:pqqqqqqqqqqqqqqqqqqqqqqqqqqqqp0kvc457r8whc",

"ismine": true,

"version": 0,

"type\_int": 68,

"type": "Burn BCH Get WHC",

"propertyid": 1,

"precision": "0",

"mature": false,

"amount": "1000.00000000",

"valid": true,

"blockhash": "0157d3d79e51c5e52be2850dbaa52f79eee457aee2de31b9118d59478d4fa419",

"blocktime": 1533462701,

"positioninblock": 1,

"block": 111,

"confirmations": 1

}

**3. Query Balance**

#BCH->WHC(1:100)

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_getbalance qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz 1

{

"balance": "1000.00000000",

"reserved": "0.00000000"

}

**3. Crowdfunding relevant Operations**

1. u1 Users initiate crowdfunding

#initiate crowdfunding

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_sendissuancecrowdsale "qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz" 1 2 0 "Create Crowd Sale" "BitCoin" "Crowd\_01" "http://www.baidu.com" "" 1 "100" 1535644800 10 0 20000

2dca56a9270c3f6c907fa73b99d1fc69033346ece31e3f166b67fa489189d78f

#query transaction information(after confirmation)

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_gettransaction 2dca56a9270c3f6c907fa73b99d1fc69033346ece31e3f166b67fa489189d78f

{

"txid": "2dca56a9270c3f6c907fa73b99d1fc69033346ece31e3f166b67fa489189d78f",

"fee": "6120",

"sendingaddress": "bchreg:qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz",

"ismine": true,

"version": 0,

"type\_int": 51,

"type": "Create Property - Variable",

"propertyid": 3,

"precision": "2",

"ecosystem": "main",

"category": "Create Crowd Sale",

"subcategory": "BitCoin",

"propertyname": "Crowd\_01",

"data": "",

"url": "http://www.baidu.com",

"propertyiddesired": 1,

"tokensperunit": "100.00000000",

"deadline": 1535644800,

"earlybonus": 10,

"amount": "20000.00",

"valid": true,

"blockhash": "67f554e9ba6f62b9cf17813bad6916208b5a402527b917f3e705f03c27fa1fd5",

"blocktime": 1533462949,

"positioninblock": 1,

"block": 115,

"confirmations": 1

}

#query property information

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_getproperty 3

{

"propertyid": 3,

"name": "Crowd\_01",

"category": "Create Crowd Sale",

"subcategory": "BitCoin",

"data": "",

"url": "http://www.baidu.com",

"precision": 2,

"issuer": "bchreg:qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz",

"creationtxid": "2dca56a9270c3f6c907fa73b99d1fc69033346ece31e3f166b67fa489189d78f",

"fixedissuance": false,

"managedissuance": false,

"totaltokens": "20000.00"

}

#query crowdfunding information

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_getcrowdsale 3

{

"propertyid": 3,

"name": "Crowd\_01",

"active": true,

"issuer": "bchreg:qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz",

"propertyiddesired": 1,

"precision": "2",

"tokensperunit": "100.00000000",

"earlybonus": 10,

"starttime": 1533462949,

"deadline": 1535644800,

"amountraised": "0.00000000",

"tokensissued": "20000.00",

"addedissuertokens": "0.00"

}

2. Participate crowdfunding

#Create user u2

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli getnewaddress u2

bchreg:qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl

#deposit bch

deposit address:http://www.wormhole.cash/test/

#deposit whc(use u1 user transfer here to replace burning operation)

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_send qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl 1 500

3fe29eab43aecf7e613a0f2cf8432c31bb62654d268e0dd73d4ae1cb3029b860

#u2 account has sufficient bch and whc available for crowdfunding

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_particrowsale qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz 10

ea9698f13179494b4c705d90517e800185093a24454e86addb10f59e95af06b4

#query transaction information(afterconfirmation)

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_gettransaction ea9698f13179494b4c705d90517e800185093a24454e86addb10f59e95af06b4

{

"txid": "ea9698f13179494b4c705d90517e800185093a24454e86addb10f59e95af06b4",

"fee": "5140",

"sendingaddress": "bchreg:qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl",

"referenceaddress": "bchreg:qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz",

"ismine": true,

"version": 0,

"type\_int": 1,

"type": "Crowdsale Purchase",

"propertyid": 1,

"precision": "0",

"amount": "10.00000000",

"purchasedpropertyid": 3,

"purchasedpropertyname": "Crowd\_01",

"purchasedpropertyprecision": "2",

"purchasedtokens": "1360.64",

"issuertokens": "0.00",

"valid": true,

"blockhash": "0364dc77e6d704f28559c3284fddc4aead164f6d698056ad3dec6bf4860f9db1",

"blocktime": 1533463643,

"positioninblock": 1,

"block": 128,

"confirmations": 1

}

3. Close crowdfunding

#close

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_sendclosecrowdsale qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz 3

f40861a873a6fafadc9bc252b433268e780f232a53c4ed324ab5919d1cd23c01

#query transaction information(after confirmation)

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_gettransaction f40861a873a6fafadc9bc252b433268e780f232a53c4ed324ab5919d1cd23c01

{

"txid": "f40861a873a6fafadc9bc252b433268e780f232a53c4ed324ab5919d1cd23c01",

"fee": "4300",

"sendingaddress": "bchreg:qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz",

"ismine": true,

"version": 0,

"type\_int": 53,

"type": "Close Crowdsale",

"propertyid": 3,

"precision": "2",

"valid": true,

"blockhash": "416ea77bdf23199fad2b720853c8b2fce1791f0d34002256c9d5564205c607f8",

"blocktime": 1533463730,

"positioninblock": 1,

"block": 129,

"confirmations": 1

}

4、Change Issuer of the asset

#change operation

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_sendchangeissuer qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl 3

84575b6fdcad0fc4b7e912c0cfec4e9a0fe43a84d916b25bc78d55835196af26

#query transaction information(after confirmation)

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_gettransaction 84575b6fdcad0fc4b7e912c0cfec4e9a0fe43a84d916b25bc78d55835196af26

{

"txid": "84575b6fdcad0fc4b7e912c0cfec4e9a0fe43a84d916b25bc78d55835196af26",

"fee": "4980",

"sendingaddress": "bchreg:qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz",

"referenceaddress": "bchreg:qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl",

"ismine": true,

"version": 0,

"type\_int": 70,

"type": "Change Issuer Address",

"propertyid": 3,

"precision": "2",

"valid": true,

"blockhash": "35401c340d51f75e03225adb95d3b66ac8a0d0966b10fbd823c735fcd45915f5",

"blocktime": 1533463850,

"positioninblock": 1,

"block": 130,

"confirmations": 1

}

5. Transfer

#confirm balance before transfer

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_getbalance qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz 3

{

"balance": "0.00",

"reserved": "0.00"

}

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_getbalance qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl 3

{

"balance": "1360.64",

"reserved": "0.00"

}

#initiate transfer

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_send qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz 3 100

3e3368c0b345fb52507471ced2dcef1e2876597ac9981aa9520b75c87603cc5e

#confirm after transfer made

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_getbalance qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl 3

{

"balance": "1260.64",

"reserved": "0.00"

}

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_getbalance qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz 3

{

"balance": "100.00",

"reserved": "0.00"

}

6. Airdrop

#airdrop operation

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_sendsto qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl 3 100

1db5d3b5c094e0d839465a1623d1b29baccb03e1bc2d817c6ee87d8b7ca4ebc4

#confirm after airdrop

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_getbalance qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl 3

{

"balance": "1160.64",

"reserved": "0.00"

}

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_getbalance qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz 3

{

"balance": "200.00",

"reserved": "0.00"

}

7. Send all property

#get balance before sending

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_getallbalancesforaddress qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl

[

{

"propertyid": 1,

"balance": "490.00000762",

"reserved": "0.00000000"

},

{

"propertyid": 3,

"balance": "1160.64",

"reserved": "0.00"

}

]

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_getallbalancesforaddress qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz

[

{

"propertyid": 1,

"balance": "508.99999237",

"reserved": "0.00000000"

},

{

"propertyid": 3,

"balance": "200.00",

"reserved": "0.00"

}

]

#send all property

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_sendall qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl 1

6b6b04aed7ed091a9b1f89b9517064cb16cd5032f1b0994d93b6db2a5d20e871

#confirm after sending property

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_getallbalancesforaddress qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz

[

]

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_getallbalancesforaddress qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl

[

{

"propertyid": 1,

"balance": "998.99999999",

"reserved": "0.00000000"

},

{

"propertyid": 3,

"balance": "1360.64",

"reserved": "0.00"

}

]

**4. Create Asset Management**

1. Create property

#create property operation

root@iZhp3gsd1ofz82zei2wx49Z:~/.bitcoin# wormholed-cli whc\_sendissuancemanaged qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl 1 8 0 "qshuai testnet create managed issuance" "first test" "managed issuance" "https://github.com/bcext/" "hello world"

7a42d544775aedd38c67fda3c20ba80af1385a9b65cb8e95e85024ec1732e3d4

#query transaction information (after confirmation)

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_gettransaction 7a42d544775aedd38c67fda3c20ba80af1385a9b65cb8e95e85024ec1732e3d4

{

"txid": "7a42d544775aedd38c67fda3c20ba80af1385a9b65cb8e95e85024ec1732e3d4",

"fee": "6480",

"sendingaddress": "bchreg:qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl",

"ismine": true,

"version": 0,

"type\_int": 54,

"type": "Create Property - Manual",

"propertyid": 4,

"precision": "8",

"ecosystem": "main",

"category": "qshuai testnet create managed issuance",

"subcategory": "first test",

"propertyname": "managed issuance",

"data": "hello world",

"url": "https://github.com/bcext/",

"amount": "0.00000000",

"valid": true,

"blockhash": "3f6087c556ec1ce261a286cec0434ca29215204f9e8394b98807639907115875",

"blocktime": 1533465005,

"positioninblock": 1,

"block": 134,

"confirmations": 1

}

#query asset information

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getproperty 4

{

"propertyid": 4,

"name": "managed issuance",

"category": "qshuai testnet create managed issuance",

"subcategory": "first test",

"data": "hello world",

"url": "https://github.com/bcext/",

"precision": 8,

"issuer": "bchreg:qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl",

"creationtxid": "7a42d544775aedd38c67fda3c20ba80af1385a9b65cb8e95e85024ec1732e3d4",

"fixedissuance": false,

"managedissuance": true,

"freezingenabled": false,

"totaltokens": "0.00000000"

}

2. Additional issuance of assets

# additional issuance operation

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_sendgrant qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl "" 4 10000 "hello grant"

1d0afab3383dfab315b7e3e2a5ba78d4ddb5481b8094843132e9134a4d589afc

#query transaction information(after confirmation)

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_gettransaction 1d0afab3383dfab315b7e3e2a5ba78d4ddb5481b8094843132e9134a4d589afc

{

"txid": "1d0afab3383dfab315b7e3e2a5ba78d4ddb5481b8094843132e9134a4d589afc",

"fee": "4700",

"sendingaddress": "bchreg:qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl",

"referenceaddress": "bchreg:qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl",

"ismine": true,

"version": 0,

"type\_int": 55,

"type": "Grant Property Tokens",

"propertyid": 4,

"precision": "8",

"amount": "10000.00000000",

"valid": true,

"blockhash": "1a56bf55c4a137303d8d8424f1dddb96ce3c2cfb1369cb98ac50748642d99ce8",

"blocktime": 1533469110,

"positioninblock": 1,

"block": 135,

"confirmations": 1

}

#query property information

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getproperty 4

{

"propertyid": 4,

"name": "managed issuance",

"category": "qshuai testnet create managed issuance",

"subcategory": "first test",

"data": "hello world",

"url": "https://github.com/bcext/",

"precision": 8,

"issuer": "bchreg:qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl",

"creationtxid": "7a42d544775aedd38c67fda3c20ba80af1385a9b65cb8e95e85024ec1732e3d4",

"fixedissuance": false,

"managedissuance": true,

"freezingenabled": false,

"totaltokens": "10000.00000000"

}

3. Revoke Property

#revoke property operation

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_sendrevoke qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl 4 200

74b8d70c1a8f2d9b95cea883f5a6adac1ffc421e3dea984ef79373bddb47364c

#query property details

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getproperty 4

{

"propertyid": 4,

"name": "managed issuance",

"category": "qshuai testnet create managed issuance",

"subcategory": "first test",

"data": "hello world",

"url": "https://github.com/bcext/",

"precision": 8,

"issuer": "bchreg:qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl",

"creationtxid": "7a42d544775aedd38c67fda3c20ba80af1385a9b65cb8e95e85024ec1732e3d4",

"fixedissuance": false,

"managedissuance": true,

"freezingenabled": false,

"totaltokens": "9800.00000000"

}

4. Change Issuer

#change issuer operation

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_sendchangeissuer qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz 4

65fbd27bd1219b6c820aff9c43b2e175530cb0af0bbf14532fff132888af4906

#query property information(after confirmation)

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getproperty 4

{

"propertyid": 4,

"name": "managed issuance",

"category": "qshuai testnet create managed issuance",

"subcategory": "first test",

"data": "hello world",

"url": "https://github.com/bcext/",

"precision": 8,

"issuer": "bchreg:qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz",

"creationtxid": "7a42d544775aedd38c67fda3c20ba80af1385a9b65cb8e95e85024ec1732e3d4",

"fixedissuance": false,

"managedissuance": true,

"freezingenabled": false,

"totaltokens": "9800.00000000"

}

5. Transfer

#get balance before sending

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getbalance qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz 4

{

"balance": "0.00000000",

"reserved": "0.00000000"

}

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getbalance qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl 4

{

"balance": "9800.00000000",

"reserved": "0.00000000"

}

#start transferring

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_send qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz 4 800

902bd9fb3ccc876c3c85dfefd9d87f41e8b3a4f1030edba5fc943ad848eccf61

#query transaction information(after confirming)

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_send qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz 4 800

902bd9fb3ccc876c3c85dfefd9d87f41e8b3a4f1030edba5fc943ad848eccf61

#get balance after sending

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getbalance qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz 4

{

"balance": "800.00000000",

"reserved": "0.00000000"

}

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getbalance qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl 4

{

"balance": "9000.00000000",

"reserved": "0.00000000"

}

5. Airdrop

#airdrop operation

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_sendsto qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl 4 1000

0cb5559698144baf90a2014193fef276dd7fe20d271344f5b0a32f8470cf8e58

#query transaction information(after confirmation)

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_gettransaction 0cb5559698144baf90a2014193fef276dd7fe20d271344f5b0a32f8470cf8e58

{

"txid": "0cb5559698144baf90a2014193fef276dd7fe20d271344f5b0a32f8470cf8e58",

"fee": "4540",

"sendingaddress": "bchreg:qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl",

"ismine": true,

"version": 0,

"type\_int": 3,

"type": "Send To Owners",

"propertyid": 4,

"precision": "8",

"amount": "1000.00000000",

"valid": true,

"blockhash": "5a0343993375ab75bfc855cc6729a36c04ea4a9ff0dae3548778be7807ffd629",

"blocktime": 1533469949,

"positioninblock": 1,

"block": 139,

"confirmations": 1

}

#get balance after airdropping

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getbalance qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz 4

{

"balance": "1800.00000000",

"reserved": "0.00000000"

}

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getbalance qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl 4

{

"balance": "8000.00000000",

"reserved": "0.00000000"

}

6. Send all property

#get balance for address before sending

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getallbalancesforaddress qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl

[

{

"propertyid": 1,

"balance": "997.99999998",

"reserved": "0.00000000"

},

{

"propertyid": 3,

"balance": "1360.64",

"reserved": "0.00"

},

{

"propertyid": 4,

"balance": "8000.00000000",

"reserved": "0.00000000"

}

]

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getallbalancesforaddress qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz

[

{

"propertyid": 4,

"balance": "1800.00000000",

"reserved": "0.00000000"

}

]

#start sending

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_sendall qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl 1

34fb6eec252b28438b15a1f7feff63904a1784ccff343e034914ab856b96ace3

#confirm information after sending发送后资产确认

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getallbalancesforaddress qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl

[

{

"propertyid": 1,

"balance": "997.99999998",

"reserved": "0.00000000"

},

{

"propertyid": 3,

"balance": "1360.64",

"reserved": "0.00"

},

{

"propertyid": 4,

"balance": "9800.00000000",

"reserved": "0.00000000"

}

]

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getallbalancesforaddress qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz

[

]

**5. Create a fixed amount of property**

1. Create property

#create property operation

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_sendissuancefixed qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl 1 8 0 "qshuai testnet create fixed issuance" "first test" "fixed issuance" "https://github.com/bcext/" "hello world" 10000

acec40a5ca1efed57a311b7dbb9324e753e7f5dd2395b3825163672b5edfc809

#query transaction information(after sending)

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_gettransaction acec40a5ca1efed57a311b7dbb9324e753e7f5dd2395b3825163672b5edfc809

{

"txid": "acec40a5ca1efed57a311b7dbb9324e753e7f5dd2395b3825163672b5edfc809",

"fee": "6560",

"sendingaddress": "bchreg:qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl",

"ismine": true,

"version": 0,

"type\_int": 50,

"type": "Create Property - Fixed",

"propertyid": 5,

"precision": "8",

"ecosystem": "main",

"category": "qshuai testnet create fixed issuance",

"subcategory": "first test",

"propertyname": "fixed issuance",

"data": "hello world",

"url": "https://github.com/bcext/",

"amount": "10000.00000000",

"valid": true,

"blockhash": "7693fcae7c4877c05d95b4f5355795c96f39587893521106d99b6e6091093fd3",

"blocktime": 1533470364,

"positioninblock": 2,

"block": 142,

"confirmations": 1

}

#query property information

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getproperty 5

{

"propertyid": 5,

"name": "fixed issuance",

"category": "qshuai testnet create fixed issuance",

"subcategory": "first test",

"data": "hello world",

"url": "https://github.com/bcext/",

"precision": 8,

"issuer": "bchreg:qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl",

"creationtxid": "acec40a5ca1efed57a311b7dbb9324e753e7f5dd2395b3825163672b5edfc809",

"fixedissuance": true,

"managedissuance": false,

"totaltokens": "10000.00000000"

}

2. Change issuer of assets

#change issuer operation

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_sendchangeissuer qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz 5

730448d81c533db8f06203b183ae876b7a383db7ef15bf79660f60581389a379

#query property information

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getproperty 5

{

"propertyid": 5,

"name": "fixed issuance",

"category": "qshuai testnet create fixed issuance",

"subcategory": "first test",

"data": "hello world",

"url": "https://github.com/bcext/",

"precision": 8,

"issuer": "bchreg:qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz",

"creationtxid": "acec40a5ca1efed57a311b7dbb9324e753e7f5dd2395b3825163672b5edfc809",

"fixedissuance": true,

"managedissuance": false,

"totaltokens": "10000.00000000"

}

3. Transfer

#confirm before transdering

{

"balance": "10000.00000000",

"reserved": "0.00000000"

}

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getbalance qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz 5

{

"balance": "0.00000000",

"reserved": "0.00000000"

}

#start sending

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_send qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz 5 1000

8a8569653931ca2cc5c887ce3522fe7a500a071a006b1ddf2fc5cb0fc36e4bb3

#confirm balance after sending

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getbalance qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl 5

{

"balance": "9000.00000000",

"reserved": "0.00000000"

}

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getbalance qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz 5

{

"balance": "1000.00000000",

"reserved": "0.00000000"

}

4. Airdrop

#airdrop operation

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_sendsto qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl 5 1000

b3fe12d9f68c2b8d481877e341d93a999c798c8af48fe92ea5d7961f0f6c3bd9

#confirm balance after airdropping

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getbalance qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl 5

{

"balance": "8000.00000000",

"reserved": "0.00000000"

}

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getbalance qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz 5

{

"balance": "2000.00000000",

"reserved": "0.00000000"

}

5. Send all property

#confirm before sending all property

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getallbalancesforaddress qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz

[

{

"propertyid": 5,

"balance": "2000.00000000",

"reserved": "0.00000000"

}

]

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getallbalancesforaddress qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl

[

{

"propertyid": 1,

"balance": "996.99999997",

"reserved": "0.00000000"

},

{

"propertyid": 3,

"balance": "1360.64",

"reserved": "0.00"

},

{

"propertyid": 4,

"balance": "9800.00000000",

"reserved": "0.00000000"

},

{

"propertyid": 5,

"balance": "8000.00000000",

"reserved": "0.00000000"

}

]

#start sending

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_sendall qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl 1

e6ec9dd0d385abf1c7fd7033c5092cd4f74ad9c52303bab705e3f44c500f2a93

#get balance after sending

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getallbalancesforaddress qrkx59hgt29n980vsvkzj05ejay5en3905flhhhegl

[

{

"propertyid": 1,

"balance": "996.99999997",

"reserved": "0.00000000"

},

{

"propertyid": 3,

"balance": "1360.64",

"reserved": "0.00"

},

{

"propertyid": 4,

"balance": "9800.00000000",

"reserved": "0.00000000"

},

{

"propertyid": 5,

"balance": "10000.00000000",

"reserved": "0.00000000"

}

]

root@iZhp3gsd1ofz82zei2wx49Z:~# wormholed-cli whc\_getallbalancesforaddress qpzua24x08gp2czcftm87zt3yut65ahn2g549g05jz

[

]