

# DCRM 3.0 GUI

---

## STEP BY STEP GUIDE

JOEY KHEIREDDINE ( [JOEY.KHEIREDDINE@FUSION.ORG](mailto:JOEY.KHEIREDDINE@FUSION.ORG) )

YONA TAKAC ( [YONA.TAKAC@FUSION.ORG](mailto:YONA.TAKAC@FUSION.ORG) )

Revision 1  
9 November 2018

# INTRODUCTION

---

Welcome to the DCRM GUI user guide. In this guide we will help you navigate the process of testing the latest version of FUSION's innovative interoperability solution, DCRM 3.0. <http://testnet.dcrm3.fusion.org/> provides a user-friendly and interactive interface for users to experience and explore DCRM 3.0 and become comfortable with the process of Lock-In and Lock-Out (LILO).

FUSION's DCRM technology enables assets in various ecosystems to seamlessly interact. In order to achieve interconnectedness, we begin the process by locking-in assets to the FUSION blockchain. Any asset Locked-in to the FUSION ecosystem can interoperate and access the full functionality of the FUSION protocol. Importantly, FUSION has made asset integration easy, in this simulation we use **Ethereum Rinkeby** and **Bitcoin TestNet** Lock-in as an example.

**Disclaimer:** Importantly, testing of DCRM 3.0 should be executed only with testing networks where there is no risk of losing real value. Please use **Ethereum Rinkeby** and **Bitcoin TestNet** only to experiment with DCRM 3.0.

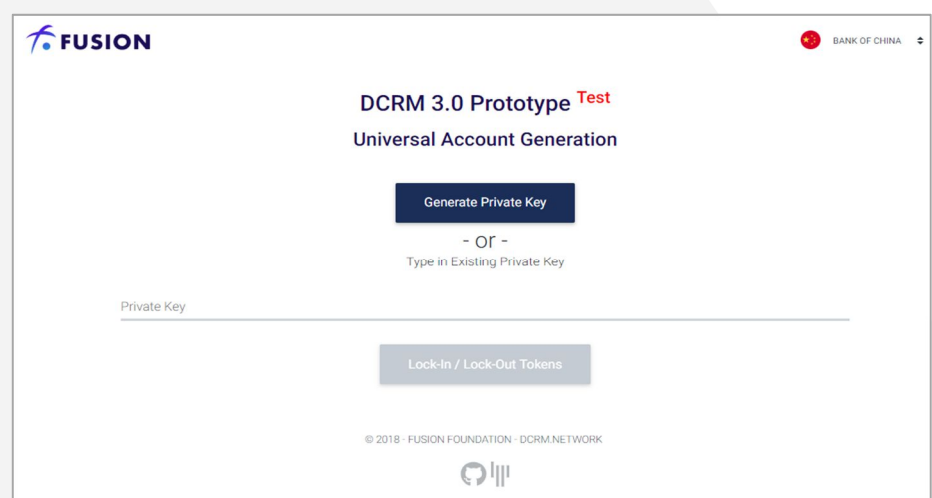
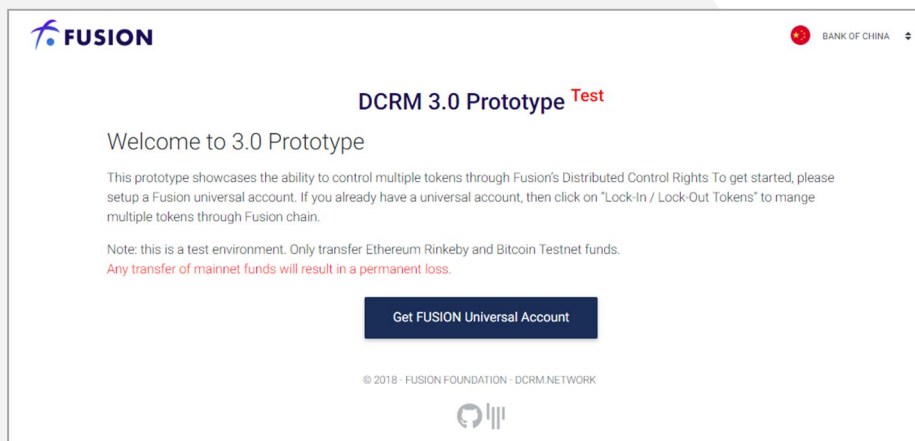
For more in-deep information on DCRM, please refer to our Medium article : <https://bit.ly/2QwFAhf>.

# CREATING UNIVERSAL ACCOUNT

In this first step we have to create a FUSION universal account. With this one account you can hold and access all of the coins and tokens that you lock into the FUSION network. If this is your first time visiting this website than you will have to generate a new private key. The private key will give anyone who has access to it complete control over all of the funds locked into this wallet - make sure you store it in a safe place. If you lose your private key you will also lose access to your digital assets.



Click “Lock-In / Lock-Out Tokens” to proceed to the next step.

Now that you have generated your FUSION universal account, you can begin to test the process of locking-in digital assets to the FUSION Blockchain. In this interface you can use **Ethereum Rinkeby** and **Bitcoin TestNet** coins to test how **DCRM** works



# LOCK-IN / LOCK-OUT

We now have the option to either Lock-In or Lock-Out funds. If you have just generated a new DCRM Account. The “Lock-Out Transaction” button will be disabled, since the account has no available funds to Lock-Out. If your account does have available funds in either Ethereum Rinkeby or Bitcoin TestNet, the “Lock-Out Transaction” will become active.

 BANK OF CHINA

## DCRM 3.0 Prototype Test

### Lock-In / Lock-Out Tokens


Welcome to your Fusion universal wallet. Here, you can lock-in external tokens and view your DCRM account balances to lock-out tokens or transfer tokens between DCRM accounts.

Note: this is a test environment. Only transfer Ethereum Rinkeby and Bitcoin Testnet funds.  
**Any transfer of mainnet funds will result in a permanent loss.**

Lock-In ( Create DCRM Account )

Lock-Out Transaction

© 2018 - FUSION FOUNDATION - DCRM.NETWORK





# LOCK-IN

Lock-In is the process of mapping an account on to your **DCRM** Account. In version 3.0 we have two types of assets that can be Locked-In. These are **Ethereum Rinkeby** and **Bitcoin TestNet**.

Select from the 'Coin Type' dropdown box whether you would like to test Ethereum or Bitcoin. After completing your selection click Create DCRM Account. In this loading process DCRM will interface with the Ethereum or Bitcoin network (in the backend) to generate a new wallet containing a public address and private key. The private key will be sharded and securely stored in **DCRM** and the public key will be sent back to the user. Let's consider a scenario in which you selected Ethereum from the 'Coin Type' dropdown box.

The resulting address sent to you via the DCRM GUI interface will be a real **Ethereum Rinkeby** address of which the private is now sharded through DCRM. To Lock-in tokens to your FUSION universal account, the user must go to their existing wallet that contains **Ethereum Rinkeby** tokens and send them to the public address created by DCRM.

It is important to note that when you Lock-in tokens from your existing wallet to your DCRM wallet, DCRM will have control over your private keys. Once you Lock-in your tokens to the FUSION blockchain you will have access to the complete functionality of the protocol.



**DCRM 3.0 Prototype** Test

**Lock-In: Map External Token Account**

Here you will map external token accounts created through Fusion's proprietary DCRM technology. Private keys for these accounts are securely stored in pieces or shards in Fusion's network and the full private key is never shared with any person, any node, any time.

Select the account (token) type you want to map and the click on create.


Coin Type:

Ethereum

Create DCRM Account

Lock-Out Transaction

© 2018 - FUSION FOUNDATION - DCRM.NETWORK



# OBTAINING FUNDS

To test the Lock-Out function in **DCRM**, you need to have some funds locked into your DCRM account. For both **Ethereum Rinkeby** and **Bitcoin TestNet** there are so called faucets available. A website where you can request funds to your address.

For **Ethereum Rinkeby**, use the following link : <https://faucet.rinkeby.io/>

You will need to place your wallet address on social media (easiest way; in a tweet) and paste the link into the textbox and hit “Give me Ethers”.



## Rinkeby Authenticated Faucet

Give me Ether ▼

For **Bitcoin TestNet**, use the following link : <https://coinfaucet.eu/en/btc-testnet/>

Paste your wallet address, pass the reCAPTCHA and hit the “Get Bitcoins!” button.

A screenshot of the 'Bitcoin testnet3 faucet' website. The page has a light blue header with the title 'Bitcoin testnet3 faucet' and a 'Donate?' link. Below the header is a text input field with a Bitcoin icon and the placeholder text 'Your testnet3 address'. Underneath the input field is a reCAPTCHA section with a checkbox and the text 'I'm not a robot', followed by the reCAPTCHA logo and links for 'Privacy' and 'Terms'. At the bottom of the form is a large blue button labeled 'Get bitcoins!'. A link for 'Bitcoin Talk Thread' is visible at the very bottom of the page.

# LOCK-OUT

The Lock-out function will be available to you only if you have successfully locked-in assets to your FUSION Universal account. Lock-out is the process of transferring the funds held in your FUSION universal account and controlled by DCRM to a wallet outside the FUSION ecosystem to which you have ownership of the private keys.

To begin the lock-out process, select the DCRM account you want to use to send a transaction from, this selection is made from the the dropdown menu.

Enter the address you wish to transfer funds to in the “Transfer To ETH Address\*” textbox.

Enter the amount you wish to transfer in the “Transfer Amount” textbox.

Hit the “Review Transfer Details” to sign the transaction and review all the details of the transaction you are about to broadcast.

The signature modal will show up. Wait for it to finish and review the details of your transaction.

(\*) Label differs between assets.

**FUSION** BANK OF CHINA

**DCRM 3.0 Prototype Test**

**Lock-Out Transactions**

With Lock-Out, you can transfer tokens between DCRM accounts or transfer tokens to external, non- DCRM created accounts.  
Note: this is a test environment. Only transfer Ethereum Rinkeby and Bitcoin Testnet funds.  
Any transfer of mainnet funds will result in a permanent loss.

Transfer From: ETH : 0x1F18ae4ddd4Ad03dFAB1480aB5A4C01e466BB59D

Account Balance: 14.60909

Transfer To ETH Address

Transfer Amount

Review Transfer Details

**FUSION** BANK OF CHINA

**DCRM 3.0 Prototype Test**

**Lock-Out Transactions**

With Lock-Out, you can transfer tokens between DCRM accounts or transfer tokens to external, non- DCRM created accounts.  
Note: this is a test environment. Only transfer Ethereum Rinkeby and Bitcoin Testnet funds.  
Any transfer of mainnet funds will result in a permanent loss.

Transfer From: ETH : 0x1F18ae4ddd4Ad03dFAB1480aB5A4C01e466BB59D

Account Balance: 14.60909

Transfer To ETH Address: 0x1a6241C666c306446b4ec3f42fd91273f2C1701F

Transfer Amount: 1

Signing transaction..



Please wait..

Review Transfer Details

# REVIEWING TRANSACTION

It's now time to review our transaction. Carefully check if everything is filled in correctly. If not, click the "Edit Transaction" button to go back to the Lock-Out section and edit the transaction.

If all details are correct, you can now move on and click "Send Transaction" to broadcast the transaction to the network.



## Transaction Details

Please confirm details of your transaction.  
Note: this is a test environment. Only transfer Ethereum Rinkeby and Bitcoin Testnet funds.  
**Any transfer of mainnet funds will result in a permanent loss.**

Transfer From	0x1F18ae4ddd4Ad03dFAB1480aB5A4C01e466BB59D
Account Balance	14.60909
Transfer Amount	1
Transfer To	0xe55b7e1cd46a3b404ed4abc03186336e80d28b62


SIGNATURE

f86c0e85098bca5a0082bb8094e55b7e1cd46a3b404ed4abc03186336e80d28b62880de0b6b3a7640000802ca0288939df44185958a2d2d809bfff018e896e69d5a0d40842d343cc414deeeb9e4a01d99fda7ef6e87d99a7a253004936396533ec03e233f52e8a3612c93f0dae268

Send Transaction

Edit Transaction

© 2018 - FUSION FOUNDATION - DCRM.NETWORK








# SENDING TRANSACTION

**Congratulations!** We have now successfully broadcasted a transaction by using FUSION's DCRM technology.

You can now view the transaction on the chain. This will either be Etherscan for **Ethereum Rinkeby's** case and BlockCypher for **Bitcoin TestNet's** case.



### Transfer Sent



TX HASH

0x935a69fdfa39231def716bb532ad1566bdc3bc559ec69bb4d26d5ff167852ae4

View on Etherscan

Back To Lock-In / Lock-Out

© 2018 - FUSION FOUNDATION - DCRM.NETWORK

