

MATRIX Online Wallet Manual

Version: 1.1

Written by: MATRIX Foundation Research Beijing Institute



Without limitations, all intellectual property rights including but not limited to copyrights, trademarks and technical secrets, relating to the system and its derivatives, as well as all related documents, including all information contained in this document and any of its annexes, are the property of the MATRIX Foundation.

The information contained in this document is confidential and is intended for internal use by the recipient. Without prior written consent from the MATRIX Foundation, recipients of this document may not disclose the information herein to any third party including but not limited to managers, employees and affiliates. Lending, licensing, assigning, selling, distributing or performing any other such dispositions relating to document or related products is strictly forbidden.

This document may not be reproduced, modified or distributed in any form or by any means for any purpose without the prior written permission of the MATRIX Foundation. No recipient of this document may alter, remove or damage any of the trademarks used in this document.

This document is provided as is. The MATRIX Foundation does not guarantee the correctness, accuracy or reliability of this document. All information in this document may be modified without notice. The MATRIX Foundation assumes no responsibility for any errors or inaccuracies that may appear in this document.

In no event shall the MATRIX Foundation be liable for any direct, consequential, incidental or any other damages arising out of the use of this document or related products, without limitation.

The MATRIX Foundation reserves all rights.



Content

C	CONTENT 1					
RE	VISI	ON HISTORY	3			
1	IN	ITRODUCTION	4			
2	C	REATE A NEW WALLET	4			
3	0	NLINE TRANSACTIONS	9			
	3.1	Instant Transactions	9			
	3.	1.1 One-to-One Transactions	9			
	3.	1.2 One-to-Many Transactions	12			
	3.2	SCHEDULED TRANSACTIONS	13			
	3.	2.1 One-to-One Transactions	13			
	3.	2.2 One-to-Many Transactions	14			
	3.3	REVOCABLE TRANSACTIONS	14			
	3.	3.1 One-to-One Transactions	15			
	3.	3.2 One-to-Many Transactions	16			
	3.4	CANCEL REVOCABLE TRANSACTIONS	16			
4	0	FFLINE TRANSACTIONS 1	18			
5	Er	NTRUST	20			



6	CANCEL ENTRUST	. 21
7	CHECK TX STATUS	. 24
8	DEPOSIT	. 25
9	AI Transaction	30



Revision History

Date	Content	Author	Reviewer	Revision Date
2019-01-28	1 st edition	Allen		

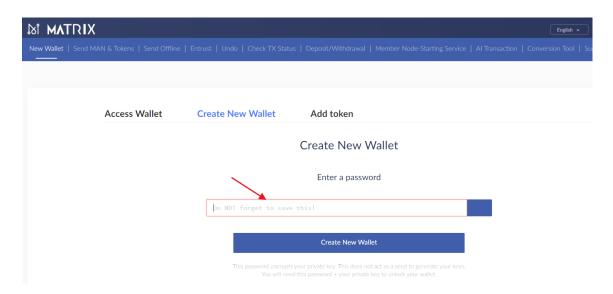
1 Introduction

The MATRIX Online Wallet is as simple, easy-to-use web-based application. It is a secure, decentralized wallet that does not store user information such as an account name or password. Should any issues arise with the wallet, users can recover their account by using another wallet so long as they have access to their private key and password.

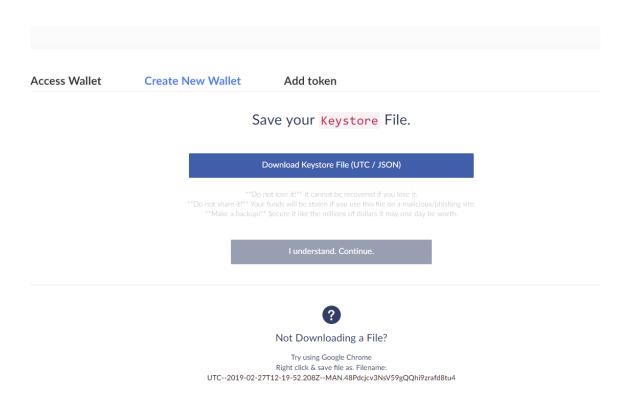
Link: https://wallet.matrix.io/

2 Create a New Wallet

1. Enter a password. Click "Create New Wallet." Be sure to safely store your password.



2. Download and save the file `Keystore File(UTC/JSON)`

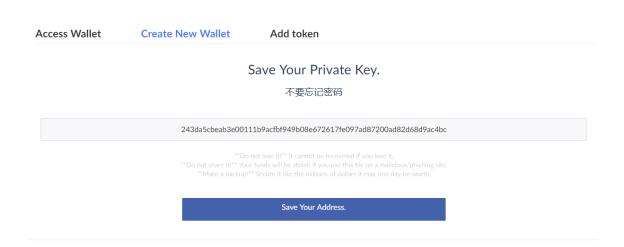


Below is a Keystore File (UTC/JSON)' s JSON sample data:

{"version":3,"id":"69dfbc60-7221-4f05-853d-749046b685bb","address":"de4ce30a9 abc138408509c7628681fd08d931586","Crypto":{"ciphertext":"099827b94d7c64e4aa54b ccbad342db7a375d558987c79ae921c9d7223b44bdc","cipherparams":{"iv":"07adb85fcf b94f487f4381fdc47e79b4"},"cipher":"aes-128-ctr","kdf":"scrypt","kdfparams":{"dklen":32 ,"salt":"1d57cfc8fc5cb9a03a30ddc2cbe4949e17e220949a582ad8be10b41c02be9021","n ":8192,"r":8,"p":1},"mac":"c85427a2d62b10d24647e06d2cda99c5576828d655a3d4382c4 9fa478fafebbb"}}

Important: Do not lose this file. Save it securely.

Click the "I understand. Continue."



- 3. Click 'Save Your Address'
- 4. There are two ways to unlock your wallet: load the KeyStore file (UTC/JSON) or input the private key

Create New Wallet Add token

Unlock your wallet to see your address

How would you like to access your wallet?





5. Click "SELECT WALLET FILE" and open your KeyStore file (UTC/JSON). Then enter your password; or enter your private key directlty



Create New Wallet Add token Unlock your wallet to see your address How would you like to access your wallet? OKeystore/JSON File OPrivate Key or public key, is what you share with people so that they can send you MAN or other tokens. When sending or receiving tokens, please ensure that your unique paper wallet. SELECT WALLET FILE... Create New Wallet Add token Unlock your wallet to see your address How would you like to access your wallet?

JSON

OKeystore/JSON File



t # or public key, is what you share with people so that they can send you MAN or other tokens. When sending or receiving tokens, please ensure that y paper wallet.

Paste Your Private Key

Private Key

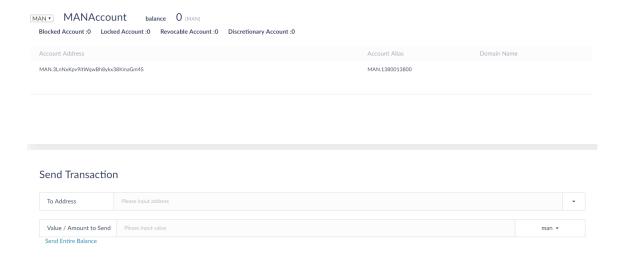
6. You can see your account details like the following:



Your wallet is ready! Share your address with others when you are ready to start receiving funds.

3 Online Transactions

Click the "Send MAN & Tokens" tab. Sign in to your wallet.



3.1 Instant Transactions

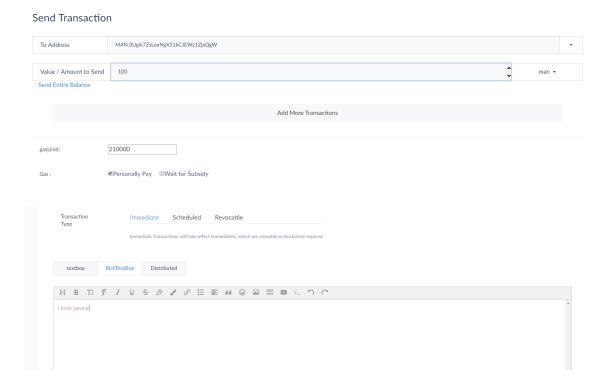
As the name implies, instant transactions are real-time transfers, including one-to-one transfers and one-to-many transfers

3.1.1 One-to-One Transactions

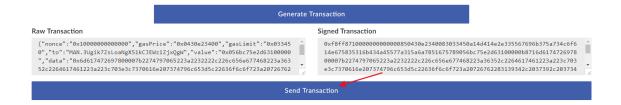
Transfer to a single address

- Input address in `To Address`: You can add a new address or choose an old one from the dropdown list
- Input the amount to send
- Leave the gas limit as is

- Choose 'Personally Pay' for Gas (Wait for Subsidy will be explained later)
- Click 'Immediate'
- You can choose to enter content in plain text boxes, rich text boxes, and distributed storage
- Click `Generate Transaction`

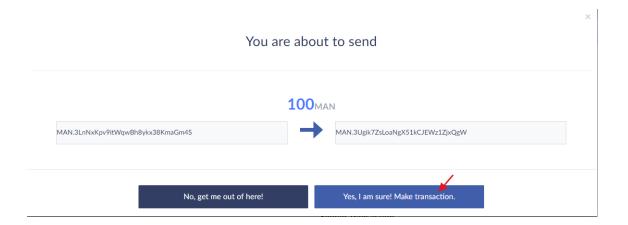


After clicking the "Generate Transaction" button, the Raw Transaction and Signed Transaction will be displayed as below:



Click "Send Transaction." After confirming that all information is correct, click "Yes, I

am sure! Make transaction."

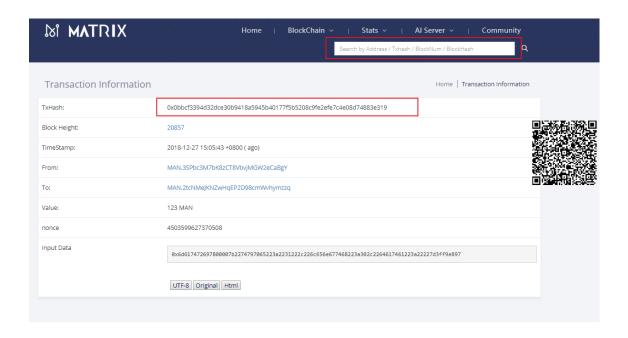


A green box will pop up and show a "TX Hash" once the transaction is completed. The "TX Hash" can be used to check the status of delayed transactions. Users can also view transaction details using the "TX Hash" in the MATRIX Blockchain Browser.



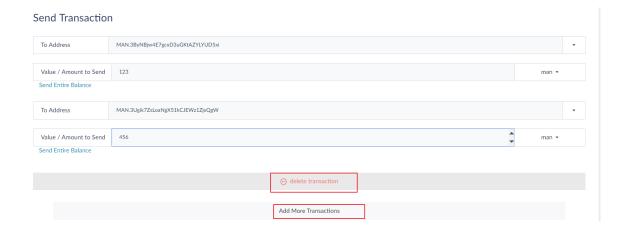
Your TX has been broadcast to the network. This does not mean it has been mined & sent. During times of extreme volume, it may take 3+ hours to send. 1) Check your TX below. 2) If it is pending for hours or disappears, use the Check TX Status Page to replace. 3) Use [MAN Gas Station] to see what gas price is optimal. 4) Save your TX Hash in case you need it later:

0x0bbcf3394d32dce30b9418a5945b40177f5b5208c9fe2efe7c4e08d74883e319



3.1.2 One-to-Many Transactions

MATRIX wallet supports one-to-many transactions (click '+ Add More Transactions' to add multiple new addresses), and transfer funds to multiple addresses at the same time (the added address can also be deleted)



From here, the steps are the same as for one-to-one transactions.

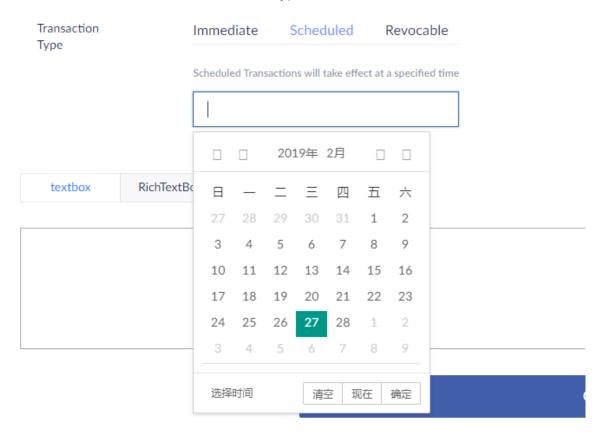
3.2 Scheduled Transactions

Scheduled transactions are those that actually complete the transfer at a specified time (block height)

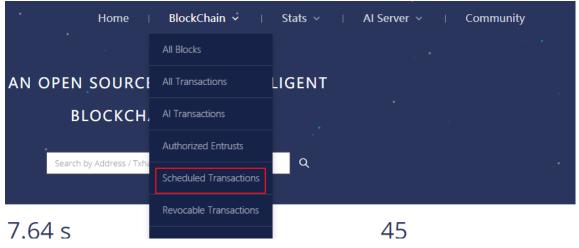
3.2.1 One-to-One Transactions

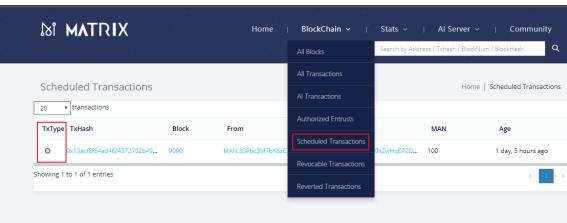
Earlier steps are the same with '3.1.1 one-to-one transactions', but choose

"Scheduled" for the Transaction Type



Completed scheduled transactions can be viewed here in the explorer





3.2.2 One-to-Many Transactions

Earlier steps are the same with '3.1.2 one-to-many transactions', but choose "Scheduled" for the Transaction Type

3.3 Revocable Transactions

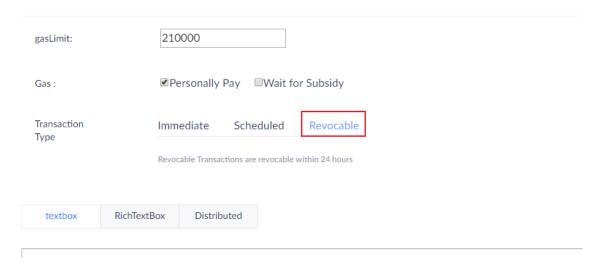
Revocable transactions can be cancelled within 24 hours. When a revocable transaction is sent, the main account balance (From account) will decrease and the revocable account balance will increase accordingly. If it is not withdrawn within 24 hours, the balance in the revocable account is transferred to the recipient account of the transaction. Otherwise, it goes back to the main account



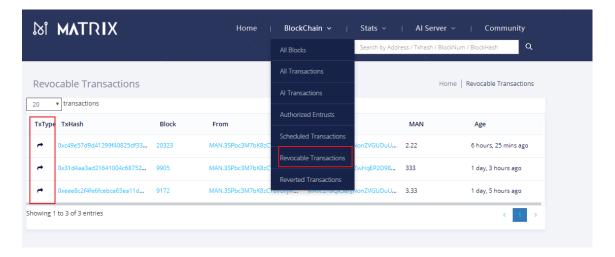
3.3.1 One-to-One Transactions

Earlier steps are the same with '3.1.1 one-to-one transactions', but choose

"Revocable" for the Transaction Type



Revocable Transactions can be viewed under "Revocable Transactions" of explorer



3.3.2 One-to-Many Transactions

Earlier steps are the same with '3.1.2 one-to-many transactions', but choose "Revocable" for the Transaction Type

3.4 Cancel Revocable Transactions

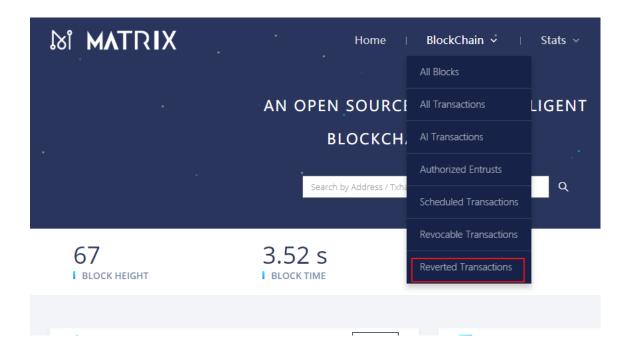
When the revocable transactions are cancelled, the balance of the revocable account is returned to the main account.

Click 'Undo' and unlock your wallet.

Enter the hash of the revocable transaction to be cancelled, and generate and send the transaction.

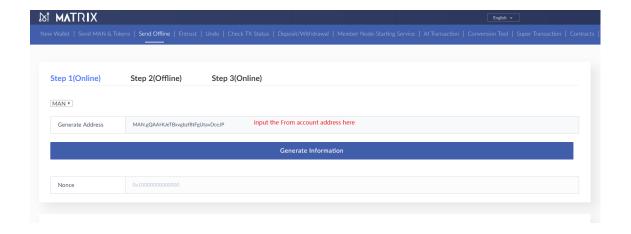


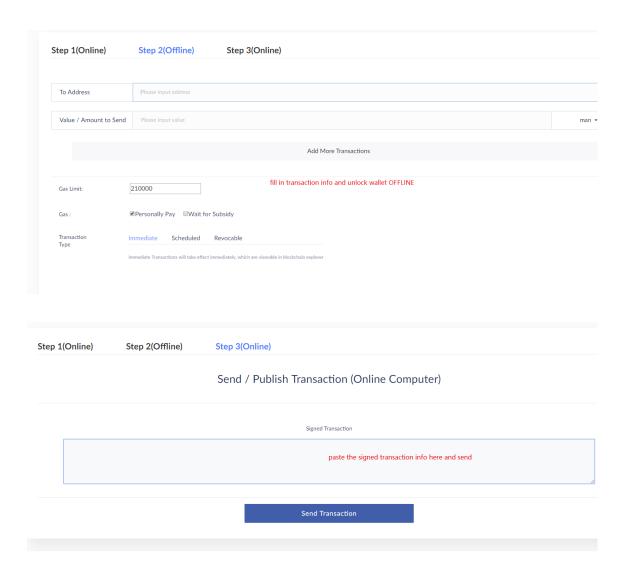
Cancelled Transactions can be viewed under "Reverted Transactions" of explorer



4 Offline Transactions

The characteristics of offline transactions is to sign the transaction on the offline computers, and copy the signed transactions to the networked computer and send them

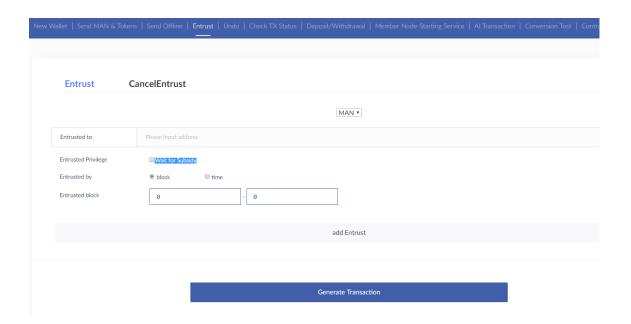




5 Entrust

Entrust transaction is a kind of entrust behavior between two accounts. They can be entrusted as follows:

- Wait for Subsidy: When the entrusted account initiates the transaction, gas fee shall be paid by the entrust account
- 1. Click "Entrust", and unlock the wallet

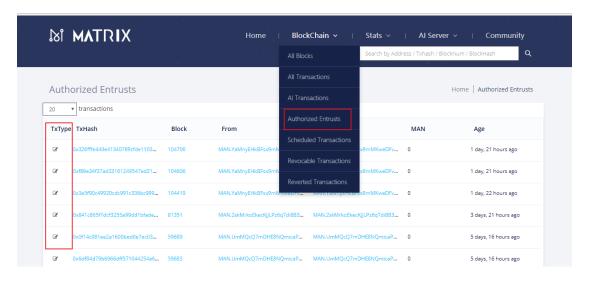


Fill in the required information

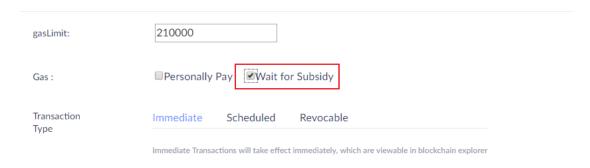
You can entrust by block or time

2.Click "Generate Transaction" and send the transaction

Entrusts can be viewed under "Authorized Entrusts" of explorer



After that, you can select "Wait for Subsidy"



6 Cancel Entrust

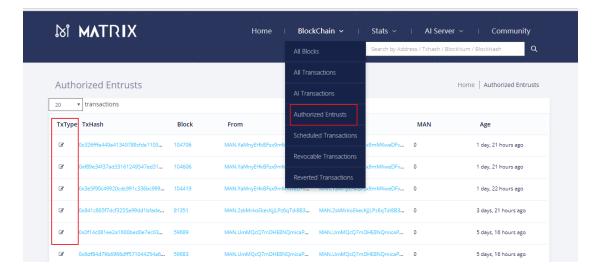
Click "CancelEntrust"



Check the box and click "Generate Transaction, then send the transaction



交易上链以后,可以通过区块链浏览器 Authorized Entrusts 来查询



完成委托后,即可在在线交易中选择 "委托 gas"



7 Check TX Status

You can copy and paste your transaction hash here, and view the status as well as details of this transaction

Check TX Status During times of high volume (like during ICOs) transactions can be pending for hours, if not days. This tool aims to give you the ability to find and "cancel" / replace these TXs. ** This is not typically something you can do. It should not be relied upon & will only work when the TX Pools are full 0xd18b1acc860e4b08d75a896b2ac81f3eb586ac2e6f336a7fc8604b277ffa188d Check TX Status

Transaction Found

Your transaction was successfully mined and is on the blockchain.

- If you see a red (!), a BAD INSTRUCTION or OUT OF GAS error message, it means that the transaction was not successfully sent. You cannot cancel or replace this transaction. Instead, send a new transaction. If you received an "Out of Gas" error, you should double the gas limit you specified originally.
- If you do not see any errors, your transaction was successfully sent. Your Man or Tokens are where you sent them. If you cannot see this Man or Tokens credited in your other wallet / exchange account, and it has been 24+ hours since you sent, please [contact that service]. Send them the link to your transaction and ask them, nicely, to look into your situation.

Transaction Details

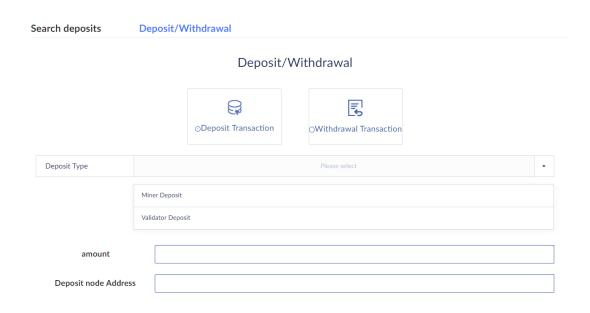


8 Deposit

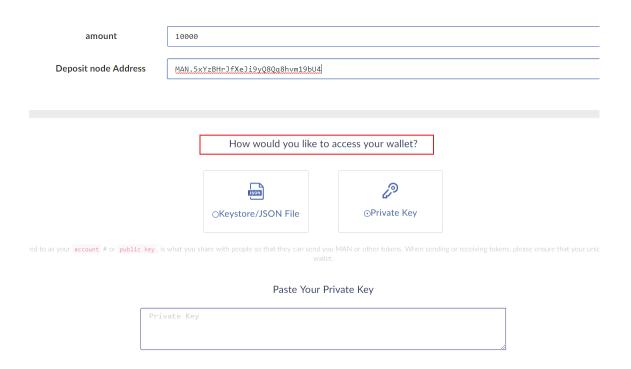
Users who wish to run MATRIX AI Network blockchain miner or validator nodes need to deposit a certain amount of MAN tokens. This can be done under "Deposit"

There are two types of deposit transactions: Miner Node Deposits and Validator Node Deposits. Miner Node Deposits require at least 10,000 MANs while Validator Node Deposits require at least 100,000 MANs

Deposit for Miner

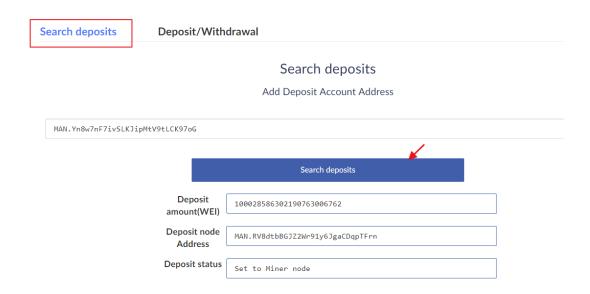


First, enter the amount and address, then unlock the wallet



Click "Submit" to finish the deposit

View Deposit Status

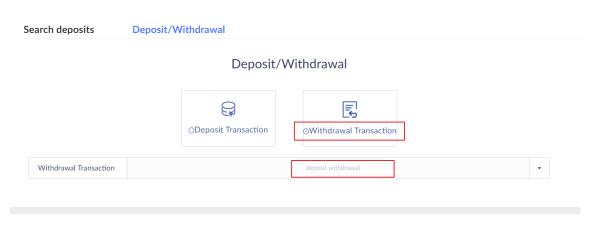


Deposit for Validator

Choose "Validator Deposit" for deposit type

Deposit/Withdrawal Deposit Transaction Deposit Transaction Validator Deposit Validator Deposit Validator Deposit Amount 100000 MAN. 5xYzBHr3fXe3i9yQ8Qq8hvm19bU4

Withdraw



How would you like to access your wallet?

Unlock the wallet and submit.

Status: you can see at which block (number) you withdraw from deposit

Search deposits

Add Deposit Account Address



Refund

You can get your deposited MAN back 600 blocks after withdraw



9 Al Transaction

When you upload your own pictures or medical images through a special transaction, it will be automatically analyzed and processed by MATRIX AI server. Then you can view the transaction and AI processed results in HTML format in the blockchain explorer.

The AI server will provide different processing services, including AI pose detection, AI object detection and AI medical diagnosis, based on your choice.

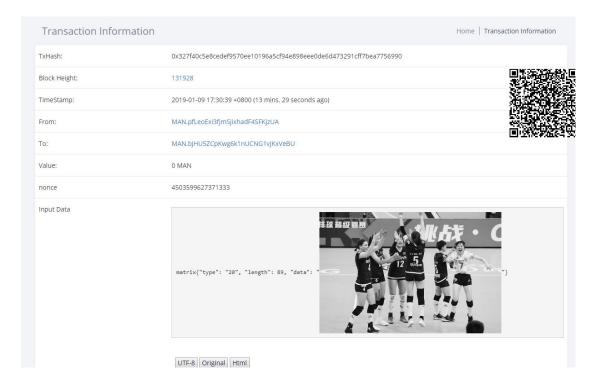
Al pose detection: Intelligent detection of human posture, identifying different parts of the human body

Under "Al Transaction" , unlock the wallet and choose "Pose Detection"

Al Transaction							
Al Transaction Type	Pose Detection						
Upload Data	Please select upload file*						
	0% th Choose file						

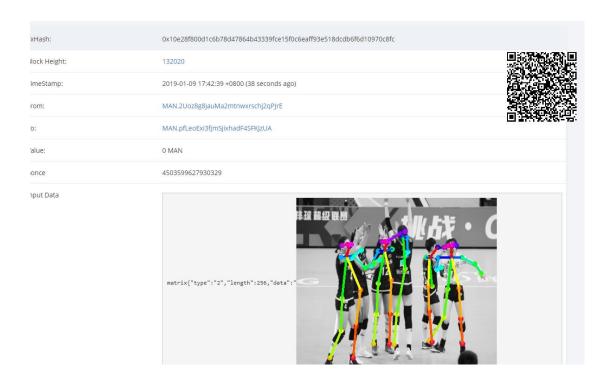
Select the picture to upload

Generate and send the transaction

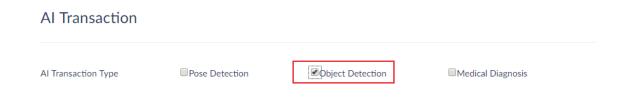


Within a few seconds, the AI server returns the results of the processing.

As you can see, the processed image is returned through another auto-triggered transaction. The 'from' address of this transaction is the unified address of the Al server, and the 'to' address is the 'from' address of the original transaction.



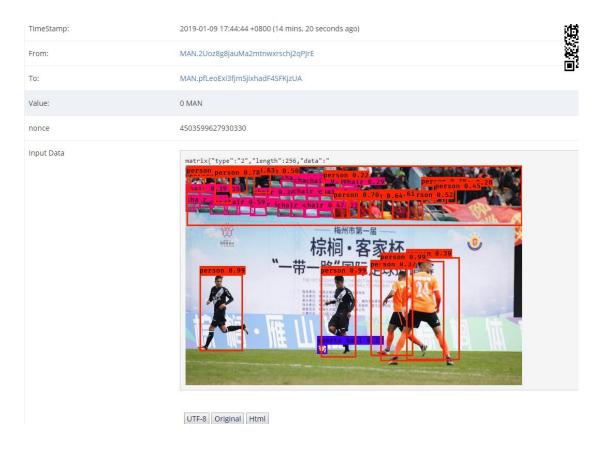
> Al Object Detection: Intelligent object recognition, which detects objects in pictures and provides similarity with other objects



Before processing



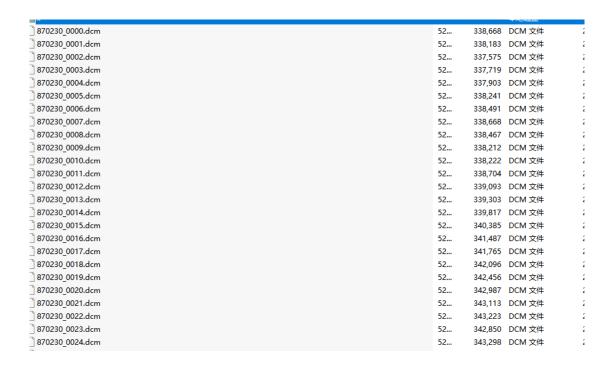
After processing



Al Medical Diagnosis

Al Transaction Al Transaction Type Pose Detection Object Detection Medical Diagnosis

Select to upload the compressed file in the specified format (the file should contain a complete set of medical image DCM files)



Generate and Send the transaction



Your TX has been broadcast to the network. This does not mean it has been mined & sent. During times of extreme volume, it may take 3+ hours to send. 1) Check your TX below. 2) If it is pending for hours or disappears, use the Check TX Status Page to replace. 3) Use [MAN Gas Station] to see what gas price is optimal. 4) Save your TX Hash in case you need it later:

0x182dbfd03a40c45fdb9e6f6ff945199d3e9ba2b4592071cdb05e2cbd81872e7b

Hash:

0xff6f8034a9ed524f0c8ca1421c12359d2346ab5d53c28732b2a7396c93eafedd

